



Autoridad Del Canal De Panama
Oficina de Proyectos de Capacidad del Canal

Panama Canal



Work Order No.7
Study of Variation
and Trends in the
Historical Rainfall
and Runoff Data
in the Gatun Lake
Watershed

Contract Number CC-5-536

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APPENDICES

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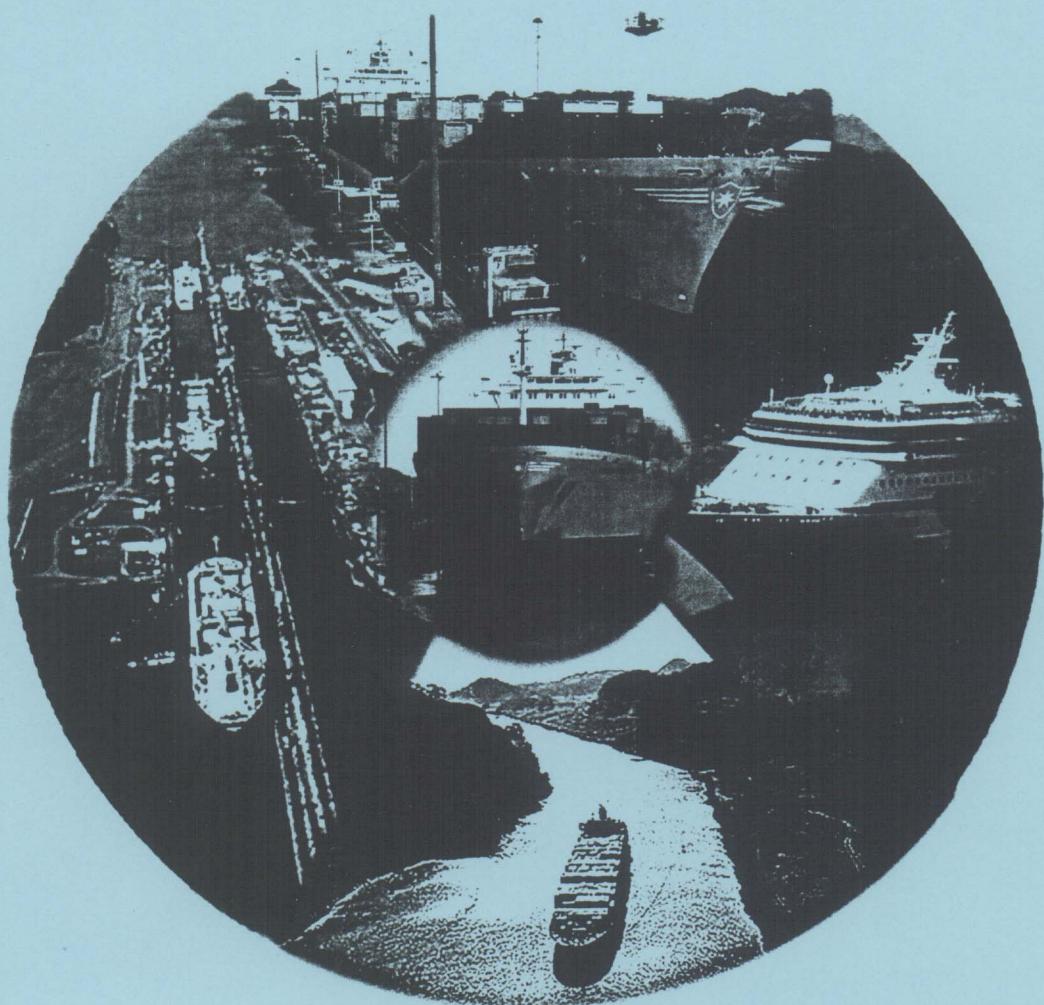
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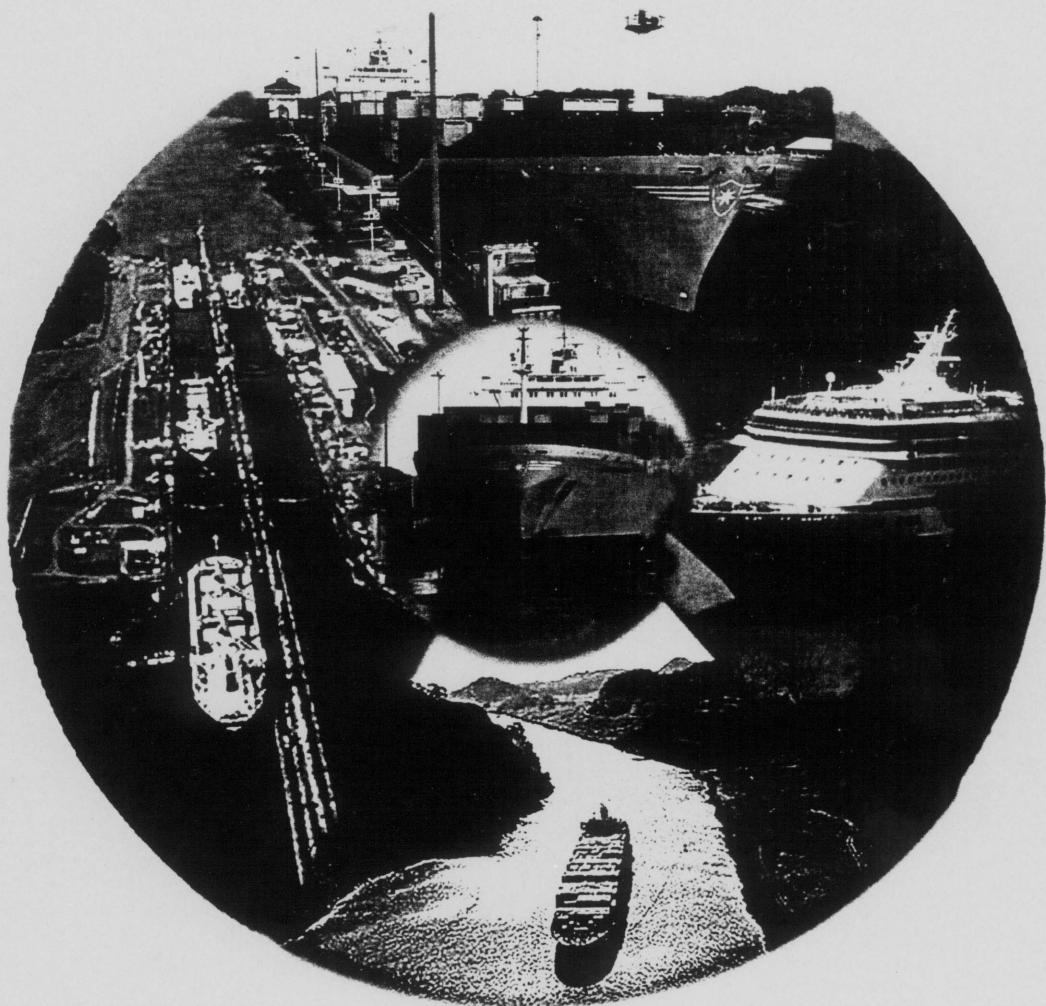
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Appendix B

Historic Rainfall and Streamflow Data



RAINFALL

AGUA CLARA
MONTHLY RAINFALL IN MM

Latitude	09-21-52		north	Longitude		79-42-22		west		Elevation	460 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1910					437	322	462	313	357	307	715	575
1911	18	61	38	118	583	376	203	240	192	431	437	37
1912	22	53	9	8	342	413	353	274	210	447	494	202
1913	140	94	5	97	374	265	253	313	205	387	446	272
1914	17	47	26	81	331	338	150	429	323	420	300	126
1915	48	335	24	438	203	298	484	334	347	474	486	282
1916	27	66	88	114	296	322	208	174	250	434	503	137
1917	41	17	17	234	333	324	409	433	382	273	658	312
1918	104	18	15	162	401	241	207	398	225	646	257	42
1919	36	11	15	340	243	335	229	276	239	438	196	208
1920	28	21	26	10	143	166	408	429	172	436	252	97
1921	51	71	22	149	377	357						221
1922	268	41	37	71	288	337	142	184	304	434	430	209
1923	77	14	25	46	306	325	352	372	366	1126	467	181
1924	30	107	22	359	330	357	410	327	302	394	779	182
1925	93	28	21	176	239	305	437	230	422	432	533	138
1926	28	54	24	25	291	557	551	517	219	478	712	268
1927	159											
1928												
1929												
1930												
1931												
1932												
1933												
1934												
1935												
1936												
1937												
1938												
1939												
1940												
1941						357	348	558	402	708	519	211
1942	92	59	165	185	319	392	277	331	418	800	502	416
1943	83	101	25	119	616	488	227	311	358	543	606	730
1944	103	20	15	291	736	206	229	644	158	762	505	564
1945	34	3	14	50	423	263	530	431	279	397	771	768
1946	16	25	80	29	188	261	431	408	341	409	624	468
1947	7	49	25	112	215	265	310	345			198	198
1948	74	5	22	83	466	258	622	212	379	376	614	61
1949	14	18	22	50	409	428	284	444	287	434	987	369
1950	11	56	33	119	339	518	358	406	364	379	963	824
1951	68	198	19	208	448	245	277	393	314	430	560	354
												3513

AGUA CLARA
MONTHLY RAINFALL IN MM

Latitude	09-21-52			north	Longitude		79-42-22			west	Elevation	460 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1952	98	10	9	161	337	299	429	345	264	790	317	470	3527
1953	234	56	68	72	294	327	319	303	234	658	585	191	3342
1954	23	35	33	231	462	393	616	428	410	311	468	291	3700
1955	375	31	18	8	256	291	228	346	247	459	641	306	3205
1956	249	33	249	115	622	220	321	285	369	599	464	156	3681
1957	8	9	3	6	229	219	158	252	272	463	712	162	2492
1958	254	67	119	80	304	344	349	363	259	328	309	175	2950
1959	18	5	13	108	203	293	240	234	465	356	411	978	3324
1960	69	18	113	375	334	313	225	233	206	478	461	718	3542
1961	28	5	13	90	205	392	252	360	269	454	476	139	2684
1962	69	14	36	96	964	348	441	348	272	382	624		
1963	0	120	13	57	474	401	306	419		420	812		
1964	22	5	52	194									
1965	76	24			348	347	81			579			
1966	103	25	26	181	453	362	332	274	370	393	748	647	3914
1967	32	13	28	155	278	452	368	306	312	515	701	168	3329
1968	3	121	130	17	259	308	345	361	318	439	601	72	2974
1969	59	43	87	160	530	179	412	390	464	520	468	557	3868
1970	391	137	78	320	437	220	259	471	219	478	932	635	4579
1971	163	43	97	15	363	361	414			462	302	33	
1972	300	117	56	241	361	378	117	272	302	536	229	198	3106
1973	86	30	18	20	290	363	401	338	389	335	653	180	3104
1974	43	30	69	33	180	427	292	351	366	734	706	185	3416
1975	66	122	191	23	279	269	533	450	290	701	455	465	3843
1976	53	38	10	185	287	272	81	328	462	513	312	20	2563
1977	104	18	33	79	318	180	292	627	437	381	249	312	3030
1978	61	122	81	460	246	490	411	551	368	338	475	130	3734
1979	18	58	30	345	467	432	234	399	272	549	528	246	3579
1980	251	155	23	89	302	216	254	300	165	262	305	274	2596
1981	462	97	94	488	330	310	246	312	234	417	996	848	4834
1982	264	13	8	208	277	343	330	193	295	630	262	41	2863
1983	84	13	13	211	267	257	213	427	399	488	437	467	3274
1984	160	28	20	66	251	422	399	518	231	726	759	79	3660
1985	53	86	86	56	409	533	249	432	424	434	513	615	3891
1986	112	25	152	173	338	348	226	312	343	843	295	84	3251
1987	81	208	5	704	582	457	442	455	447	871	218	170	4641
1988	18	84	30	23	363	300	516	660	612	759	396	305	4067
1989	23	196	89	8	251	173	442	384	287	465	693	353	3363
1990	36	8	147	66	493	338	373	513	787	861	592	254	4468
1991	41	66	117	117	345	526	391	198	620	373	729	124	3647
1992	13	30	371	925	351	348	472	475	363	249	142	3823	
1993	290	76	183	221	218	470	338	287	490	452	465	246	3736

AGUA CLARA
MONTHLY RAINFALL IN MM

Latitude	09-21-52		north	Longitude		79-42-22		west	Elevation	460 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1994	178	30	104	48	361	467	427	353	511	528	701	86 3795
1995	262	168	48	198	478	612	437	467	394	394	848	437 4742
1996	683	175	312	201	399	574	213	414	282	234	975	180 4643
1997	33	10	15	20	361	386	140	216	297	216	632	33 2360
1998	43	8	56	307	457	373	373	544	409	381	419	500 3871
1999	20	130	175	373	333	612	516	493	236	353	704	813 4757
2000	107	18	15	114	312	566	262	429	356	846	257	726 4008
Mean	105	60	57	156	367	353	330	372	337	498	535	310 3489
Max	683	335	312	704	964	612	622	660	787	1126	996	978 4834
Min	0	3	3	6	143	166	81	174	158	216	196	20 2187
Std	121	61	61	137	148	105	120	109	112	173	206	234 640
Skew	2.3	1.9	2.0	1.5	1.9	0.6	0.2	0.5	1.2	1.2	0.3	1.0 0.2
CV	1.2	1.0	1.1	0.9	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.8 0.2

ALHAJUELA
MONTHLY RAINFALL IN MM

Latitude	09-12-23			north	Longitude	79-37-14			west	Elevation	39.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1899							297	259	205	301	274	48	
1900	46	1	1	104	259	453	501	268	437	337	339	29	2775
1901	5	1	46	64	403	305	202	454	404	566	546	124	3120
1902	33	9	10	144	287	230	325	240	257	286	474	115	2409
1903	5	4	10	12	199	268	500	400	212	394	414	526	2944
1904	76	19	15	177	267	475	368	189	371	213	364	94	2627
1905	55	2	41	37	459	174	184	336	196	276	105	141	2005
1906	9	5	7	107	246	289	487	663	273	210	543	274	3113
1907	2	2	5	6	128	347	338	271	302	277	112	38	1828
1908	26	5	6	117	501	281	246	423	342	383	268	102	2699
1909	69	94	7	90	364	501	346	207	191	491	920	582	3862
1910	76	66	70	76	292	346	432	341	468	390	378	393	3328
1911	4	58	0	124	409	267	225	274	236	340	340	10	2287
1912	2	8	1	5	341	309	258	327	232	343	244	56	2127
1913	24	6	2	18	321	292	178	277	224	163	421	40	1966
1914	2	6	1	43	144	319	183	314	431	582	192	57	2274
1915	22	64	2	227	208	205	399	261	244	422	303	149	2507
1916	17	34	9	148	315	356	307	279	380	491	375	84	2794
1917	3	1	4	28	436	221	328	338	252	348	504	163	2625
1918	24	4	1	173	288	400	223	233	281	306	176	7	2115
1919	19	1	2	230	155	174	342	206	237	393	249	62	2070
1920	13	4	5	21	113	283	529	360	226	640	258	67	2520
1921	5	45	7	24	273	243	445	374	290	547	235	78	2567
1922	100	4	0	4	318	352	193	252	211	425	283	111	2254
1923	17	4	5	3	327	381	145	308	371	704	156	21	2441
1924	1	46	3	116	316	215	387	225	236	336	365	123	2368
1925	65	1	5	123	165	213	324	217	227	310	339	54	2042
1926	2	13	1	0	82	356	422	439	342	368	282	129	2436
1927	17	12	3	131	335	521	366	281	220	183	333	83	2484
1928	18	4	76	56	133	187	245	501	200	346	544	103	2413
1929	5	1	18	56	218	319	355	407	297	473	272	89	2510
1930	6	9	14	175	292	144	364	231	321	258	78	22	1915
1931	6	3	60	56	281	348	325	230	445	204	742	118	2820
1932	27	6	10	146	446	292	172	293	259	444	569	126	2790
1933	26	0	63	6	308	273	263	322	280	192	371	197	2299
1934	36	4	3	114	477	296	244	285	263	470	522	152	2865
1935	21	12	3	41	364	338	572	370	354	377	846	154	3453
1936	2	2	2	26	305	175	330	224	397	356	254	16	2089
1937	39	6	3	23	279	264	241	367	276	343	445	470	2755
1938	5	2	16	98	337	404	202	249	189	394	323	362	2582
1939	1	0	2	3	84	283	179	303	301	376	469	191	2192
1940	55	14	1	4	142	178	196	311	367	429	263	45	2006

ALHAJUELA
MONTHLY RAINFALL IN MM

Latitude	09-12-23			north	Longitude		79-37-14			west	Elevation	39.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1941	14	76	9	103	246	230	352	201	288	372	198	45	2134
1942	25	7	11	159	308	329	214	230	239	437	185	384	2529
1943	97	24	7	130	370	435	227	164	207	282	253	317	2514
1944	18	1	2	126	274	125	289	430	205	582	271	168	2491
1945	5	1	1	27	316	151	337	299	358	240	268	218	2220
1946	11	4	5	4	283	430	294	110	198	164	270	250	2022
1947	0	6	1	75	153	295	286	303	266	314	229	158	2086
1948	4	0	5	9	314	258	305	95	202	341	428	47	2007
1949	4	3	1	48	222	478	212	256	151	394	358	113	2240
1950	2	5	7	57	257	330	385	290	212	226	454	219	2442
1951	4	65	1	140	436	215	275	323	212	240	346	75	2332
1952	24	5	0	38	304	402	385	196	278	428	100	310	2469
1953	79	22	4	85	400	165	418	128	181	287	310	93	2170
1954	12	7	16	86	317	221	421	434	287	314	237	41	2393
1955	130	8	12	2	175	232	352	348	233	221	481	142	2335
1956	108	12	68	89	348	222	324	375	392	509	371	34	2850
1957	1	2	1	1	183	270	304	262	235	407	315	25	2005
1958	52	7	23	37	337	195	340	265	244	226	248	41	2015
1959	14	0	1	5	126	238	132	271	164	162	128	228	1468
1960	31	2	44	101	301	280	325	296	267	364	328	356	2696
1961	3	1	26	147	188	391	209	351	376	349	324	162	2526
1962	13	0	37	27	283	234	316	245	330	482	204	130	2303
1963	132	31	3	141	132	329	248	461	484	260	372	20	2612
1964	3	1	10	195	253	309	360	257	279	332	327	45	2371
1965	18	1	0	1	276	231	200	262	284	289	501	161	2223
1966	7	8	5	64	356	273	237	209	353	202	633	364	2711
1967	19	5	1	64	138	361	443	328	510	328	333	82	2613
1968	0	46	5	40	340	465	249	495	382	301	331	84	2739
1969	29	4	40	188	125	211	293	275	408	270	306	111	2262
1970	130	6	41	186	358	224	328	292	366	305	366	259	2859
1971	124	3	66	18	320	267	343	409	325	452	269	8	2604
1972	152	5	38	213	257	297	173	188	419	325	208	102	2377
1973	10	0	0	28	224	246	246	130	368	257	373	104	1986
1974	3	0	15	13	211	462	226	249	221	353	206	30	1989
1975	13	3	23	5	201	249	465	300	262	475	246	196	2436
1976	8	0	0	56	165	272	84	122	264	381	188	8	1547
1977	5	10	0	3	361	239	137	472	320	391	175	145	2258
1978	10	13	20	236	211	259	257	318	208	368	295	61	2256
1979	0	5	0	287	231	226	305	330	109	330	356	51	2230
1980	66	20	0	23	302	325	274	434	231	343	318	76	2413
1981	23	3	58	284	343	338	348	246	102	241	348	170	2504
1982	84	5	0	74	234	231	244	79	284	366	160	3	1763

ALHAJUELA
MONTHLY RAINFALL IN MM

Latitude	09-12-23			north	Longitude		79-37-14			west	Elevation	39.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1983	8	0	0	79	277	198	185	203	442	511	401	107	2410
1984	13	10	23	56	287	302	170	399	333	394	437	10	2433
1985	18	13	15	23	366	338	231	218	536	241	371	208	2578
1986	15	8	79	124	66	361	145	185	196	518	216	25	1938
1987	3	5	10	312	216	378	310	267	422	389	203	102	2616
1988	0	3	3	107	145	300	465	282	333	389	330	84	2438
1989	0	13	5	5	86	196	168	218	211	396	386	122	1806
1990	13	3	3	3	213	124	264	333	226	655	259	234	2329
1991	20	5	28	117	312	429	432	269	284	323	287	23	2530
1992	5	0	28	119	241	310	272	343	467	249	208	66	2309
1993	76	5	51	157	224	333	213	211	447	378	414	64	2573
1994	23	0	25	36	224	325	196	257	257	460	315	30	2146
1995	5	0	13	91	249	244	272	351	320	307	399	175	2426
1996	345	30	48	94	262	206	173	287	229	279	358	84	2395
1997	0	0	5	91	358	351	185	178	274	224	211	5	1882
1998	0	3	0	51	229	343	351	333	340	203	368	254	2474
1999	53	145	3	132	183	419	216	411	254	305	455	587	3162
2000	28	0	23	56	251	310	279	330	203	312	201	323	2316
Mean	31	12	15	83	267	294	293	293	291	354	333	137	2406
Max	345	145	79	312	501	521	572	663	536	704	920	587	3862
Min	0	0	0	0	66	124	84	79	102	162	78	3	1468
Std	47	22	20	72	93	87	98	95	89	111	142	125	378
Skew	3.7	3.4	1.7	1.0	0.0	0.4	0.5	0.6	0.6	0.7	1.4	1.7	0.7
CV	1.5	1.8	1.3	0.9	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.9	0.2

BALBOA DOCKS
MONTHLY RAINFALL IN MM

Latitude	Longitude												Elevation	m
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1881					279	296	182							
1882														
1883														
1884														
1885														
1886														
1887														
1888														
1889														
1890														
1891														
1892														
1893														
1894														
1895	35	2	0	137	145	191	323	163	187	267	171	210		
1896						130	92	78						
1897														
1898														
1899														
1900	19	0	0	57	285	226	402	152						
1901				195	183	179	248	137	229	288	372	94		
1902	132	1	79	132	251	138	136	106	172	271	290	71	1778	
1903	14	0	1	32	170	63	178	373	110	124	220	219		
1904	66	9	127	197									124	
1905	0	0	11	80	80	295	146	135	163	187	169	138	1404	
1906	17	18	0	182	228	266	199	191	98	86	367	116	1767	
1907	8	4	0	0	155	301	103	219	254	259	255	117	1674	
1908	5	14	0	19	220	126	144	266	151	191	187	308	1631	
1909	37	43	4	72	246	306	379	174	104	284	406	249	2305	
1910	25	12	55	92	226	265	228	276	132	253	101	35	1698	
1911	10	82	0	188	225	107	181	216	220	215	141	125	1710	
1912	0	5	0	73	243	149	248	172	254	400	156	94	1795	
1913	20	5	0	2	204	182	107	171	229	262	236	188	1606	
1914	8	0	0	125	207	184	127	132	196	177	305	114	1575	
1915	57	69	0	111	201	60	169	332	91	261	194	125	1672	
1916	29	37	11	78	321	100	249	297	177	276	206	114	1895	
1917	8	5	0	52	126	207	233	159	264	147	338	36	1575	
1918	26	0	34	110	164	116	110	95	167	216	219	29	1285	
1919	3	2	0	161	150	197	125	151	215	300	130	61	1495	
1920	0	0	9	90	57	112	160	292	243	169	441	122	1694	
1921	38	80	84	48	210	183	227	238	83	375	132	142	1840	
1922	63	42	30	4	218	195	164	33	200	240	209	126	1524	

BALBOA DOCKS
MONTHLY RAINFALL IN MM

Latitude	Longitude												Elevation	m
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1923	15	0	0	24	197	154	87	130	107	345	206	207	1473	
1924	0	3	19	55	160	180	154	397	332	229	319	49	1896	
1925	34	6	2	77	171	413	100	270	215	246	82	213	1829	
1926	0	2	0	2	112	343	257	277	226	239	252	90	1799	
1927	6	58	0	134	248	271	211	186	181	217	157	195	1865	
1928	3	3	104	88	121	212	211	173	251	302	521	104	2091	
1929	5	0	82	17	117	245	133	309	245	191	307	63	1714	
1930	16	22	0	168	247	76	84	104	205	219	119	136	1396	
1931	0	0	15	44	343	212	260	94	258	218	324	75	1843	
1932	10	2	7	183	237	201	177	187	168	263	258	202	1894	
1933	30	7	8	96	172	334	138	192	134	132	277	89	1608	
1934	123	2	5	132	174	273	144	128	439	258	312	111	2100	
1935	21	11	0	55	223	173	325	302	133	246	488	40	2017	
1936	23	0	19	36	155	198	154	164	222	203	278	381	1833	
1937	117	15	36	27	274	186	186	104	257	236	287	225	1950	
1938	45	0	8	62	315	259	170	306	190	297	298	161	2110	
1939	7	0	0	35	123	293	126	94	220	375	207	5	1486	
1940	55	4	10	19	194	145	151	107	266	157	129	158	1396	
1941	21	12	5	112	250	126	165	287	220	363	188	286	2035	
1942	5	20	88	53	291	154	160	116	200	180	204	224	1694	
1943	43	10	31	84	150	276	162	182	196	214	241	117	1705	
1944	16	0	0	112	188	367	149	389	140	289	208	193	2052	
1945	11	4	0	51	93	159	145	182	145	436	274	130	1630	
1946	25	0	27	19	58	102	176	150	64	299	222	147	1288	
1947	35	10	0	69	97	157	194	153	168	226	258	61	1428	
1948	44	0	0	12	147	183	151	102	174	325	386	184	1708	
1949	5	0	0	38	210	227	186	202	163	289	249	113	1680	
1950	8	3	58	49	231	266	315	193	119	181	252	114	1789	
1951	43	36	11	122	233	133	127	85	251	309	224	300	1871	
1952	8	1	1	16	368	155	187	104	213	362	249	140	1804	
1953	82	49	32	3	154	182	115	179	201	316	139	94	1547	
1954	17	33	5	54	245	335	198	211	237	294	303	241	2173	
1955	90	66	14	4	168	189	236	269	192	146	339	90	1804	
1956	62	15	7	64	264	239	307	286	117	324	259	14	1956	
1957	8	0	0	28	224	155	302	279	158	227	214	58	1654	
1958	19	1	0	79	272	112	161	247	347	267	317	184	2008	
1959	30	0	0	34	203	103	156	181	153	529	212	194	1796	
1960	104	21	21	183	202	139	137	299	176	157	318	123	1880	
1961	19	11	2	53	134	254	207	141	168	314	201	191	1694	
1962	17	0	10	19	119	269	136	161	150	337	275	13	1504	
1963	51	124	3	141	160	191	230	160	135	179	240	70	1681	
1964	8	11	2	170	196	136	137	244	193	269	277	83	1726	

BALBOA DOCKS
MONTHLY RAINFALL IN MM

Latitude	Longitude												Elevation	m
	north	west												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu	
1965	37	1	0	9	387	155	114	200	219	315	437	125	1999	
1966	59	0	3	71	389	314	265	87	284	509	301	295	2577	
1967	8	1	62	166	146	160	219	341	352	226	276	101	2057	
1968	0	47	16	32	173	176	277	231	136	224	182	150	1644	
1969	78	45	8	132	219	154	100	279	181	183	317	197	1892	
1970	91	2	22	81	346	129	135	155	227	182	255	60	1684	
1971	182	28	22	96	148	172	123	212	232	272	254	84	1825	
1972	250	45	27	176	172	428	67	189	262	281	176	236	2309	
1973	2	0	4	51	203	323	213	97	193	333	411	36	1865	
1974	64	61	3	5	183	157	239	157	127	290	231	404	1920	
1975	13	18	0	86	135	422	216	343	150	490	310	74	2256	
1976	81	0	5	41	208	206	127	137	132	310	122	231	1600	
1977	0	0	0	10	155	249	135	180	180	122	249	150	1430	
1978	53	3	76	152	213	274	127	178	208	381	335	389	2390	
1979	0	3	5	290	208	137	76	284	124	229	132	84	1572	
1980	18	20	0	20	218	91	102	216	241	147	218	241	1534	
1981	8	10	23	363	475	244	269	201	254	236	239	30	2352	
1982	140	0	0	119	107	119	244	163	284	239	147			
1983	0	0												
1984														
1985														
1986														
1987														
1988														
1989														
1990														
1991														
1992														
1993														
1994														
1995														
1996														
1997														
1998														
1999														
2000														

Mean	35	15	16	83	204	203	181	197	195	262	252	142	1785
Max	250	124	127	363	475	428	402	397	439	529	521	404	2577
Min	0	0	0	0	57	60	67	33	64	86	82	5	1285
Stdev	44	24	27	68	75	82	69	80	65	85	87	86	260

BALBOA DOCKS
MONTHLY RAINFALL IN MM

Latitude		north		Longitude				west	Elevation		m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
Skew	2.4	2.2	2.2	1.4	0.9	0.7	0.9	0.5	0.8	0.8	0.6	0.9	0.6
C.V	1.2	1.6	1.7	0.8	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.6	0.1

BALBOA FAA
MONTHLY RAINFALL IN MM

Latitude	05-58-08			north	Longitude		79-32-58			west	Elevation		10.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
1976														
1977														
1978					175	216	206	109	180	208	297	315	196	
1979	0	20	5	117	213	124	51	221	130	297	155	150	1483	
1980	33	15	0	13	173	69	124	191	226	152	163	84	1242	
1981	3	8	33	325	419	188	282	236	241	224	208	213	2380	
1982	91	0	0	109	140	135	234	170	307	272	135	23	1615	
1983	0	0	0	46	257	145	150	277	201	351	165	91	1681	
1984	64	97	10	30	226	206	196	165	224	330	147	5	1699	
1985	18	0	13	0	145	269	124	99	305	218	163	147	1501	
1986	13	3	8	112	183	132	163	145	183	287	191	86	1504	
1987	0	15	5	135	196	168	236	152	147	371	244	64	1732	
1988	0	8	13	8	155	368	213	376	262	389	269	150	2210	
1989	66	5	13	0	69	84	102	267	147	239	447	163	1600	
1990	53	23	8	84	318	318	315	196	152	241	163	94	1963	
1991	48	0	10	76	389	257	297	119	376	251	257	43	2123	
1992	0	5	0	23	269	213	257	300	272	432	300	137	2207	
1993	69	0	91	76	488	206	462	216	292	173	254	117	2443	
1994	0	33	56	41	315	249	130	267	183	320	411	97	2101	
1995	0	0	64	81	394	566	305	216	490	401	157	201	2875	
1996	155	99	76	91	338	254	201	168	142	318	409	201	2451	
1997	170	15	0	0	145	216	135	147	361	358	348	10	1905	
1998	0	15	0	74	373	279	198	173	254	168	218	201	1953	
1999	43	18	86	69	224	241	165	132	173	203	335	251	1941	
2000	53	81	23	76	180	287	196	150	257	292	201	132	1928	
Mean	40	21	23	77	253	225	202	198	241	286	246	124	1934	
Max	170	99	91	325	488	566	462	376	490	432	447	251	2875	
Min	0	0	0	0	69	69	51	99	130	152	135	5	1242	
Std	49	31	30	72	108	105	91	65	88	77	94	69	394	
Skew	1.5	1.9	1.3	2.0	0.5	1.5	1.0	1.0	1.1	0.0	0.8	-0.1	0.5	
CV	1.2	1.5	1.3	0.9	0.4	0.5	0.4	0.3	0.4	0.3	0.4	0.6	0.2	

BALBOA HEIGHTS
MONTHLY RAINFALL IN MM

Latitude	08-57-34			north	Longitude	79-35-15			west	Elevation	30.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1881	4	4	9	82	263	350	183	114	227	246	247	63	1792
1882	0	3	0	25	133	157	136	103	103	170	277	51	1158
1883													
1884													
1885													
1886													
1887													
1888													
1889													
1890													
1891													
1892													
1893													
1894													
1895													
1896													
1897													
1898							85	175	202	342	283	48	
1899	142	30	61	0	243	215	209	218	156	305	227	110	1917
1900	19	0	0	57	285	227	402	152	197	515	330	47	2232
1901	0	28	0	6	281	321	358	220	383	350	315	59	2322
1902													
1903													
1904													
1905						186	109	135	189	216	224	103	
1906	11	8	1	197	271	172	228	164	124	110	345	140	1772
1907	7	1	0	0	113	321	109	189	283	235	267	88	1613
1908	3	6	1	35	194	109	173	292	151	223	232	106	1524
1909	74	74	5	74	231	251	229	174	98	223	385	315	2131
1910	31	11	46	94	251	224	235	305	123	225	109	270	1925
1911	21	70	7	161	280	86	147	183	153	277	192	51	1628
1912	0	2	0	68	272	147	260	161	213	454	162	83	1823
1913	16	6	11	1	210	207	123	208	290	211	270	123	1676
1914	8	1	0	122	177	185	110	155	244	164	263	210	1638
1915	54	75	0	136	163	72	176	387	94	266	179	91	1695
1916	36	38	23	72	320	112	257	267	204	258	223	149	1958
1917	3	5	1	57	146	187	258	188	293	156	350	104	1748
1918	45	0	32	115	171	132	130	98	179	233	244	14	1392
1919	7	0	0	163	132	227	121	148	275	308	126	46	1553
1920	0	0	2	77	84	123	157	310	232	165	488	49	1687
1921	22	60	76	30	218	200	205	242	83	352	181	132	1801
1922	44	52	26	4	251	201	129	37	208	229	214	97	1492

BALBOA HEIGHTS
MONTHLY RAINFALL IN MM

Latitude	08-57-34			north	Longitude	79-35-15			west	Elevation	30.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1923	20	0	0	21	148	142	80	136	117	382	224	100	1370
1924	0	1	2	94	140	214	152	367	319	264	314	211	2077
1925	37	2	2	67	171	466	97	275	229	187	89	48	1669
1926	0	2	0	2	106	313	252	265	214	252	245	213	1864
1927	5	51	0	119	230	275	209	197	166	212	148	75	1686
1928	1	8	103	86	107	223	201	174	265	272	521	177	2137
1929	4	1	56	11	103	237	133	304	235	200	321	106	1710
1930	1	22	0	172	246	64	103	110	193	209	130	62	1313
1931	0	0	18	37	334	198	266	109	282	235	320	126	1925
1932	10	12	3	192	239	234	160	193	184	295	259	68	1847
1933	41	8	12	88	202	365	153	166	132	149	337	187	1839
1934	103	2	5	129	126	276	137	115	416	291	327	69	1995
1935	22	9	0	61	206	192	334	290	119	273	500	109	2116
1936	21	0	9	42	162	232	151	156	219	241	211	47	1489
1937	129	14	62	34	279	189	167	97	277	232	259	427	2164
1938	56	0	6	49	306	241	191	300	209	323	285	201	2168
1939	11	0	0	24	117	321	129	130	206	328	166	158	1591
1940	80	3	19	27	184	153	158	117	355	163	136	5	1400
1941	22	13	4	120	229	151	154	296	203	324	191	137	1846
1942	8	11	49	57	309	142	158	137	206	203	214	285	1779
1943	30	23	38	91	170	273	165	165	200	261	192	217	1825
1944	20	0	0	91	212	390	123	368	154	287	197	104	1947
1945	19	3	0	47	107	131	150	162	131	441	241	191	1622
1946	31	1	28	23	61	106	189	167	67	357	205	131	1365
1947	28	13	1	45	127	154	184	148	137	246	260	142	1485
1948	32	1	0	3	131	161	162	105	167	346	324	59	1490
1949	4	0	7	53	222	196	170	205	154	297	256	176	1739
1950	7	4	48	44	245	302	308	212	96	180	275	117	1838
1951	36	40	9	124	209	101	126	74	249	333	218	103	1622
1952	10	3	3	15	383	165	216	129	218	376	276	342	2134
1953	68	63	39	2	224	190	135	171	180	357	160	133	1720
1954	15	22	5	85	220	337	210	216	220	360	346	97	2132
1955	110	62	15	10	160	212	256	287	210	164	400	253	2139
1956	67	31	10	57	275	257	332	292	127	341	258	67	2114
1957	11	0	0	47	233	145	273	256	144	246	220	15	1591
1958	20	4	0	76	266	140	160	245	349	253	321	70	1904
1959	27	0	0	37	234	116	142	194	147	470	203	215	1785
1960	114	22	14	173	185	136	142	298	153	146	283	215	1882
1961	17	19	5	53	128	272	213	150	183	269	216	120	1645
1962	15	1	4	11	141	259	145	163	137	342	340	209	1767
1963	49	97	3	153	127	187	213	174	131	194	266	20	1616
1964	0	12	0	166	171	154	137	244	176	268	305	79	1711

BALBOA HEIGHTS
MONTHLY RAINFALL IN MM

Latitude	08-57-34			north	Longitude		79-35-15			west	Elevation	30.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1965	34	2	0	7	334	125	92	197	231	307	436	103	1868
1966	61	0	3	81	340	353	289	90	279	590	233	129	2448
1967	5	0	44	151	133	166	206	308	330	189	301	220	2054
1968	0	44	20	14	174	197	265	204	119	248	189	74	1547
1969	75	43	9	172	194	154	122	296	175	179	311	124	1855
1970	94	2	17	81	326	136	150	176	213	207	202	195	1799
1971	226	8	17	79	140	174	134	242	238	296	266	59	1879
1972	263	40	12	216	174	431	68	161	284	288	166	82	2187
1973	3	0	1	34	233	347	238	104	217	368	374	182	2101
1974	33	47	4	9	198	164	235	163	137	298	211	32	1530
1975	25	7	1	65	128	157	234	328	86	617	660	274	2581
1976	25	0	5	25	173	183	135	112	135	323	127	66	1308
1977	0	3	0	15	152	249	127	165	208	135	201	61	1316
1978	8	3	51	163	201	290	109	183	236	297	302	188	2029
1979	0	0	18	124	114	84	71	262	132	244	152	163	1364
1980	33	13	0	20	206	81	117	173	213	165	191	76	1288
1981	5	13	23	373	462	241	267	231	251	198	221	239	2525
1982	99	0	0	117	127	114	216	165	297	259	163	36	1593
1983	0	0	0	41	290	218	163	297	185	361	201	104	1859
1984	61	107	5	18	114	145	168	241	213	338	147	0	1557
1985	30	0	10	0	150	277	124	107	300	269	180	163	1610
1986	48	3	5	119	183	163	135	137	249	348	224	104	1717
1987	0	18	5	145	246	211	254	155	157	356	239	76	1862
1988	0	3	5	10	279	297	221	351	244	312	244	119	2085
1989	71	15	10	0	109	104	157	356	114	244	348	107	1636
1990	48	18	0	69	284	274	287	183	132	234	150	107	1786
1991	28	0	25	117	333	224	274	124	333	221	226	38	1943
1992	0	5	0	8	234	208	229	262	264	318	251	145	1923
1993	51	0	84	74	378	157	376	218	229	145	226	122	2060
1994	3	28	66	66	302	218	122	208	124	295	371	76	1880
1995	0	5	61	66	338	417	262	269	351	330	122	206	2426
1996	122	76	69	89	315	239	191	155	140	257	312	127	2090
1997	124	15	0	3	196	203	206	99	371	348	345	0	1910
1998	0	15	0	69	279	257	226	185	241	211	155	175	1814
1999	38	15	74	58	287	244	284	137	193	155	307	239	2032
2000	43	36	13	66	198	279	203	165	231	333	193	150	1910
Mean	35	16	15	72	212	210	186	198	204	275	255	125	1809
Max	263	107	103	373	462	466	402	387	416	617	660	427	2581
Min	0	0	0	0	61	64	68	37	67	110	89	0	1158
Std	45	23	23	62	77	82	69	75	73	90	93	78	283
Skew	2.5	1.9	1.8	1.5	0.5	0.7	0.8	0.5	0.6	1.1	1.3	1.0	0.3

BALBOA HEIGHTS
MONTHLY RAINFALL IN MM

Latitude	08-57-34		north	Longitude	79-35-15		west	Elevation	30.5 m				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
CV	1.3	1.4	1.5	0.9	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.6	0.2

BARRO COLORADO
MONTHLY RAINFALL IN MM

Latitude	09-09-55			north	Longitude		79-50-11			west	Elevation	33.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1925				100	146	345	346	339	351	565	349	110	
1926	27	74	13	7	216	447	382	309	307	353	559	310	3003
1927	77	37	32	193	483	370	342	315	273	247	415	172	2956
1928	44	12	57	42	239	239	244	423	206	303	475	294	2579
1929	12	2	67	48	350	249	319	398	176	252	310	48	2231
1930	49	16	7	84	255	188	184	151	293	154	299	267	1945
1931	30	25	141	97	431	381	464	196	194	322	783	68	3132
1932	44	8	30	112	195	300	323	271	175	357	789	278	2883
1933	63	1	31	3	178	239	231	260	231	162	831	354	2584
1934	39	19	46	146	306	229	269	310	507	348	500	390	3109
1935	42	150	13	94	257	302	726	209	231	219	1056	343	3643
1936	19	5	42	57	295	138	269	344	327	502	299	86	2385
1937	62	5	5	27	326	262	211	492	252	322	473	715	3153
1938	57	29	36	85	424	490	265	356	154	349	244	484	2974
1939	12	2	10	17	78	340	230	240	383	398	924	297	2933
1940	117	65	38	8	232	316	140	296	274	413	242	57	2197
1941	59	75	24	13	204	218	301	306	185	441	394	112	2332
1942	71	40	69	114	280	161	226	290	356	475	208	531	2822
1943	49	44	56	73	372	362	269	390	264	258	547	371	3055
1944	58	19	11	164	403	261	189	545	186	435	183	390	2844
1945	73	17	7	40	344	258	352	313	256	255	523	620	3059
1946	11	8	43	36	204	202	314	267	271	229	380	248	2214
1947	10	54	14	78	122	306	191	299	242	335	184	143	1979
1948	47	5	4	74	274	161	291	266	171	273	516	31	2112
1949	18	2	3	23	304	395	340	254	181	367	832	199	2917
1950	5	47	12	69	200	372	314	292	183	356	614	443	2909
1951	56	96	8	217	310	278	136	287	244	494	410	328	2863
1952	61	10	3	139	315	299	153	231	283	431	241	316	2481
1953	109	18	32	169	234	97	405	396	145	464	490	110	2668
1954	31	33	5	79	282	306	382	328	284	334	435	184	2684
1955	230	12	23	9	269	344	292	289	235	415	466	323	2906
1956	141	54	57	66	420	174	497	241	286	473	314	173	2897
1957	14	13	1	1	162	152	276	556	315	437	456	104	2488
1958	108	186	76	120	310	226	242	314	270	392	182	119	2545
1959	8	4	3	34	226	211	225	219	373	229	259	620	2410
1960	75	24	114	464	394	293	291	178	241	495	420	568	3557
1961	31	6	18	138	200	272	188	501	339	437	275	151	2558
1962	47	17	2	47	326	257	337	336	345	214	351	275	2553
1963	202	80	42	162	231	151	326	479	205	259	549	82	2767
1964	6	6	5	116	402	489	443	217	290	428	407	67	2877
1965	71	7	5	27	251	207	197	251	303	276	584	179	2357
1966	82	4	11	81	175	347	235	360	252	325	602	356	2831

BARRO COLORADO
MONTHLY RAINFALL IN MM

Latitude	09-09-55			north	Longitude	79-50-11			west	Elevation	33.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1967	12	13	13	111	160	344	222	278	177	301	385	165	2181
1968	2	45	91	15	293	259	166	403	180	474	262	46	2238
1969	44	13	11	127	254	153	312	153	222	316	331	260	2195
1970	300	72	36	107	457	216	338	358	131	277	507	427	3227
1971	106	17	57	3	573	161	247	239	257	175	300	23	2157
1972	157	84	23	140	221	292	127	246	351	384	157	185	2367
1973	53	20	5	25	300	353	241	170	305	267	582	81	2403
1974	5	15	38	13	112	290	330	279	249	452	396	119	2299
1975	3	18	41	58	315	229	226	333	315	424	356	445	2761
1976	23	0	5	66	191	249	89	216	368	251	216	33	1707
1977	25	58	23	15	244	218	180	630	295	414	429	64	2596
1978	8	18	48	196	183	211	290	284	135	312	295	25	2004
1979	5	30	8	310	249	384	325	330	272	257	272	224	2664
1980	112	48	5	20	259	208	193	257	168	292	351	180	2093
1981	399	20	61	340	411	470	315	406	216	340	648	505	4133
1982	114	18	5	94	168	178	170	295	287	290	102	30	1750
1983	23	0	3	94	246	284	305	229	345	269	422	269	2489
1984	104	69	23	58	236	272	236	343	279	538	439	20	2619
1985	25	25	23	5	287	203	251	236	163	358	196	310	2083
1986	61	8	46	97	109	226	86	297	257	452	185	132	1956
1987	5	53	0	231	391	163	310	442	340	338	287	183	2743
1988	10	28	8	23	246	196	137	137	297	373	251	231	1938
1989	5	53	23	8	53	132	229	236	109	381	330	188	1748
1990	15	8	51	157	457	130	328	224	376	422	262	160	2588
1991	15	25	163	18	315	203	274	229	305	254	406	69	2276
1992	33	5	0	152	467	358	244	320	457	427	363	168	2995
1993	109	25	56	135	165	221	310	226	511	414	475	244	2891
1994	79	0	61	43	335	345	417	404	295	328	472	43	2822
1995	175	33	10	145	404	445	305	221	224	323	297	300	2880
1996	381	107	86	25	447	480	231	300	307	366	516	112	3358
1997	20	43	3	20	328	287	170	206	183	231	279	3	1773
1998	15	30	41	216	241	335	363	358	249	366	114	406	2736
1999	33	41	117	224	287	582	353	589	330	272	544	665	4036
2000	155	10	3	170	188	272	213	312	175	594	264	452	2809
Mean	67	32	32	94	279	276	275	309	265	352	409	238	2625
Max	399	186	163	464	573	582	726	630	511	594	1056	715	4133
Min	2	0	0	1	53	97	86	137	109	154	102	3	1707
Std	78	34	34	85	103	98	99	101	81	95	187	172	491
Skew	2.5	2.2	1.7	1.7	0.4	0.7	1.3	1.1	0.6	0.2	1.1	0.8	0.5
CV	1.2	1.1	1.0	0.9	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.7	0.2

CANDELARIA
MONTHLY RAINFALL IN MM

Latitude	09-22-58				north	Longitude	79-30-59				west	Elevation	97.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu	
1931														
1932														
1933														
1934	64	22	25	57			279	265	267	422	492	268		
1935	228	62	64	123	403	261	592	375	268	404	1406	512	4698	
1936	54	23	39	114	483	223	412	405	292	272	519	67	2902	
1937	253	57	29	87	433	405	439	330	326	371	449	611	3789	
1938	54	69	22	296	670	471	250	441	351	177	289	566	3656	
1939	25	8	38	59	156	331	180	484	311	195	515	285	2585	
1940	161	91	46	48	355	304	288	471	287	363	422	61	2897	
1941	68	141	86	62	352	357	310	430	249	806	499	108	3469	
1942	51	39	134	177	312	584	275	420	272	557	197	335	3351	
1943	105	170	29	191	285	349	242	379	421	300	242	571	3285	
1944	93	91	23	257	367	245	503	508	259	484	421	724	3974	
1945	82	38	17	93	331	517	363	427	249	226	288	373	3004	
1946	23	44	32	49	422	311	475	273	455	317	150	523	3072	
1947	20	51	22	172	150	386	256	344	262	347	244	248	2502	
1948	55	13	19	30	226	412	325	260	221	288	572	94	2515	
1949	23	38	29	119	251	541	408	359	460	360	395	233	3217	
1950	49	99	26	272	304	293	512	446	422	181	362	446	3410	
1951	52	323	33	231	369	281	299	371	275	361	255	261	3110	
1952	113	29	9	209	372	256	456	471	381	706	213	385	3598	
1953	323	51	57	131	393	183	367	270	159	402	327	304	2965	
1954	51	74	47	137	374	417	416	361	399	244	550	406	3477	
1955	404	23	71	27	226	200	390	628	325	203	728	272	3495	
1956	319	70	122	119	580	390	450	344	328	316	541	155	3735	
1957	33	33	3	8	294	222	190	289	269	350	585	216	2492	
1958	156	87	119	38	324	321	539	334	379	296	359	209	3162	
1959	33	12	8	97	199	327	313	275	404	338	465	805	3276	
1960	158	33	94	334	431	249	241	322	407	257	320	506	3350	
1961	44	19	18	165	214	472	263	320	286	420	298	107	2626	
1962	75										262	254		
1963		141	15	324	468	403	334	470			313	83		
1964	14	24	9	136	291						305	363	58	
1965	116	26	13	6	412	334	184	182	309	400	408	321	2712	
1966	131	16	34	418	309	309	283	332	271	361	728	460	3652	
1967	85	26	45	322	264	556	386	337	351	404	412	347	3535	
1968	15	80	87	74	415	336	310	265	227	408	283	136	2637	
1969	68	33	58	274	274	169	217	359	452	159	214	447	2724	
1970	500	106	75	329	490	190	277	478	227	318	445	645	4080	
1971	84	48	185	33	287	467	411	363	274	307	366	81	2908	
1972	488	46	25	216	368	279	198	251	277	320	249	208	2926	

CANDELARIA
MONTHLY RAINFALL IN MM

Latitude	09-22-58			north		Longitude		79-30-59			west		Elevation		97.5 m	
	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
1973	58	33	3	25	315	229	434	414	272	290	584	325	2982			
1974	53	20	28	43	264	208	378	201	325	315	389	74	2299			
1975	41	13	18	8	320	592	386	437	396	447	356	417	3429			
1976	76	46	58	170	282	48	43	150	386	211	236	81	1788			
1977	86	10	20	30	191	318	284	485	307	536	325	155	2748			
1978	25	84	79	340	351	472	292	279	345	333	434	107	3142			
1979	15	48	61	292	292	284	241	244	165	234	384	343	2604			
1980	211	127	23	71	340	368	198	335	297	396	305	249	2921			
1981	394	104	94	711	356	340	518	244	183	378	302	404	4028			
1982	130	23	15	140	206	335	452	305	249	419	137	64	2474			
1983	41	20	41	165	368	305	145	236	447	531	193	554	3045			
1984	66	36	8	36	221	467	353	442	361	257	175	206	2626			
1985	74	48	79	81	193	363	244	150	386	315	274	343	2550			
1986	91	13	58	318	391	358	119	277	445	284	198	74	2626			
1987	51	74	8	526	556	373	475	368	358	500	526	122	3937			
1988	28	84	41	33	330	323	508	353	127	343	239	231	2639			
1989	69	178	30	36	300	173	442	462	262	312	343	267	2873			
1990	160	30	102	89	404	203	292	394	315	561	312	224	3086			
1991	13	58	51	109	406	284	279	356	460	401	617	114	3150			
1992	51	25	33	290	701	277	338	521	429	272	282	157	3376			
1993	124	25	279	353	251	612	198	188	460	500	287	157	3437			
1994	41	43	119	20	437	528	315	521	290	279	518	89	3200			
1995	157	15	20	137	290	551	485	216	206	333	394	394	3198			
1996	389	124	84	198	422	422	203	356	343	259	648	478	3924			
1997	46	61	5	0	399	264	193	53	244	409	175	25	1875			
1998	38	46	23	188	330	404	389	488	384	325	290	437	3340			
1999	109	241	147	335	381	363	455	328	523	353	335	1001	4572			
2000	127	74	41	91	272	460	198	351	259	467	198	655	3193			
Mean	113	62	51	162	345	348	331	351	322	354	384	307	3140			
Max	500	323	279	711	701	612	592	628	523	806	1406	1001	4698			
Min	13	8	3	0	150	48	43	53	127	174	137	25	1788			
Std	115	56	48	138	108	118	116	106	85	119	188	204	562			
Skew	2.0	2.4	2.3	1.4	0.9	0.3	0.0	-0.1	0.1	1.2	2.6	0.9	0.3			
CV	1.0	0.9	0.9	0.9	0.3	0.3	0.4	0.3	0.3	0.3	0.5	0.7	0.2			

CANO
MONTHLY RAINFALL IN MM

Latitude	09-04-35		north	Longitude		79-49-22		west	Elevation		33.0 m		
	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1912	40	26	19	22	135	171	210	338	288	429	377	270	2326
1913	40	29	5	32	207	210	385	417	413	360	544	326	2969
1914	76	17	13	8	373	385	102	134	354	344	354	264	2423
1915	70	93	32	298	244	299	285	193	214	354	437	144	2663
1916	9	102	51	119	334	192	258	401	280	373	249	99	2465
1917	5	5	4	55	256	282	382	271	371	336	470	132	2568
1918	77	8	4	143	307	194	112	178	311	395	197	43	1970
1919	54	10	9	298	214	247	198	201	215	316	292	108	2160
1920	9	8	3	14	195	249	376	276	241	507	248	48	2175
1921	61	71	9	69	233	234	210	350	340	490	248	216	2531
1922	156	10	5	13	337	206	98	339	227	398	90	146	2025
1923	95	3	7	12	210	246	109	187	194	610	416	66	2155
1924	3	73	11	130	260	309	342	252	233	291	386	108	2398
1925	28	15	21	57	245	164	324	299	307	465	308	77	2309
1926	1	19	2	14	155	361	261	244	198	350	431	310	2345
1927	40	37	46	188	382	304	260	80	305	234	353	132	2362
1928	22	13	30	64	311	289	182	478	206	320	383	198	2495
1929	12	0	63	56	414	195	274	335	279	274	296	73	2271
1930	35	25	1	140	193	126	191	245	154	182	222	173	1686
1931	8	13	77	64	237	259	427	170	311	349	627	74	2617
1932	23	11	24	199	206	249	340	309	188	322	829	178	2878
1933	55	2	42	41	183	200	216	140	161	261	538	215	2055
1934	89	7	12	78	307	257	147	161	361	371	410	361	2560
1935	44	71	2	61	207	178	407	243	210	205	950	420	2999
1936	14	2	46	32	505	145	337	207	271	476	219	34	2289
1937	74	6	0	49	346	248	272	190	262	295	334	613	2689
1938	17	23	12	72	466	571	229	332	265	354	497	428	3265
1939	0	2	5	32	130	151	129	156	246	279	663	202	1994
1940	106	42	27	10	269	214	225	179	186	289	187	39	1775
1941	44	80	14	40	168	196	277	303	265	357	295	86	2124
1942	36	21	45	51	290	196	185	262	167	538	99	443	2332
1943	39	51	52	126	229	142	159	280	208	143	322	331	2082
1944	74	4	5	69	247	235	207	247	240	394	234	322	2278
1945	38	9	5	50	270	216	227	313	218	252	400	434	2431
1946	28	4	14	57	239	141	223	145	299	299	277	134	1858
1947	9	31	13	37	135	324	187	178	262	474	302	196	2146
1948	28	1	7	21	173	156	278	251	239	291	380	36	1862
1949	6	2	9	9	289	416	253	342	216	318	471	148	2479
1950	4	38	12	109	176	387	193	290	137-	269	443	282	2338
1951	42	74	5	133	225	115	130	365	192	287	261	215	2044
1952	48	12	2	109	258	221	171	106	101	357	307	306	1998
1953	99	17	20	104	279	213	195	191	169	406	308	101	2101

CANO
MONTHLY RAINFALL IN MM

Latitude	09-04-35			north	Longitude		79-49-22			west	Elevation	33.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1954	31	28	24	136	295	233	346	284	190	287	410	124	2389
1955	237	10	39	3	307	283	221	313	180	165	353	256	2369
1956	158	53	75	41	261	142	367	207	300	392	242	89	2327
1957	8	11	4	1	316	189	216	227	204	460	214	123	1972
1958	67	47	46	33	260	116	174	285	179	357	144	104	1812
1959	4	1	1	42	167	185							
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970		46			239	226	386	244					
1971		33	51	0	439	130	147	241	389	267	272	18	
1972	124	30	25	206	193	267	109	188	239	277	279	135	2073
1973	28	13	0	13	229	175	300	231	295	292	414	157	2146
1974	10	3	13	30	107	251	330	312	183	513	376	89	2217
1975	0	15	64	25	259	196	208	315	140	343	462	378	2405
1976	30	36	5	89	163	244	51	218	389	411	142	51	1829
1977	15	13	13	5	201	206	145	455	371	338	358	48	2167
1978	15	13	46	191	274	284	282	356	208	348	236	48	2301
1979	3	20	3	135	119	257	305	371	259	201	330	107	2108
1980	104	46	0	15	244	170	168	211	142	231	356	175	1862
1981	338	20	51	320	516	315	325	338	185	368	348	366	3490
1982	81	0	10	127	160	155	145	272	178	269	112	18	1527
1983	10	3	3	51	165	279	140	160	226	203	328	185	1753
1984	91	36	13	53	206	328	163	328	300	376	434	20	2347
1985	20	20	3	10	104	241	163	224	348	211	300	188	1831
1986	15	10	20	79	86	234	127	257	274	495	150	30	1778
1987	18	30	3	142	351	147	284	236	345	381	203	122	2263
1988	0	15	3	10	188	234	188	257	455	323	312	180	2164
1989	38	38	23	18	203	178	135	152	122	137	130	155	1328
1990	38	3	33	53	302	135	231	198	279	480	320	226	2299
1991	8	18	89	13	277	231	203	277	307	279	267	74	2042
1992	15	5	8	130	284	345	229	312	318	343	269	137	2395
1993	74	10	23	79	224	206	295	211	246	325	381	193	2266
1994	76	3	53	25	284	236	114	279	241	229	427	51	2019
1995	74	10	5	69	396	312	345	147	157	302	290	229	2337

CANO
MONTHLY RAINFALL IN MM

Latitude	09-04-35		north	Longitude		79-49-22		west		Elevation	33.0 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996	257	117	114	25	290	157	284	218	272	284	325	64	2408
1997	13	20	3	10	198	272	130	61	287	246	104	170	1514
1998	3	5	10	109	239	297	193	274	315	310	262	251	2268
1999	86	30	114	86	74	340	173	254	297	231	305	439	2431
2000	94	30	0	86	244	284	145	198	203	361	224	343	2212
Mean	51	24	23	74	249	235	227	252	251	333	334	180	2239
Max	338	117	114	320	516	571	427	478	455	610	950	613	3490
Min	0	0	0	0	74	115	51	61	101	137	90	18	1328
Std	59	25	26	69	89	78	86	81	73	94	147	126	363
Skew	2.6	1.7	1.7	1.7	0.7	1.3	0.4	0.3	0.4	0.4	1.5	1.0	0.6
CV	1.2	1.0	1.1	0.9	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.7	0.2

CHICO
MONTHLY RAINFALL IN MM

Latitude	09-15-49			north	Longitude	79-30-35			west	Elevation	103.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1931										513	600	112	
1932													
1933	27	1		7	269	139	305	337	309	264	478	223	
1934	24	0	7	49	440	241	293	274	247	390	385	147	2496
1935	54	25	9	23	365	384	560	485	266	302	1082	276	3831
1936	16	4	4	67	419	286	322	300	429	322	262	61	2492
1937	127	9	7	55	180	188	392	318	422	474	424	496	3092
1938	8	22	9	112	617	305	373	593	334	476	312	356	3517
1939	5	0	11	5	149	318	97	260	407	393	567	264	2476
1940	39	30	8	21	139	186	118	290	322	370	364	11	1896
1941	20	100	30	62	268	372	341	324	370	430	368	113	2799
1942	18	6	5	60	310	330	287	323	390	442	310	333	2813
1943	43	31	30	83	305	277	224	263	440	469	257	308	2729
1944	38	5	8	189	291	308	372	408	254	503	190	232	2799
1945	15	5	6	70	230	330	450	553	185	278	362	230	2713
1946	17	7	6	8	368	363	389	222	379	308	314	242	2623
1947	9	19	9	34	191	354	319	335	320	479	435	179	2682
1948	17	5	4	29	176	282	560	149	246	371	347	101	2286
1949	10	6	4	44	295	495	445	306	334	432	367	116	2854
1950	8	23	13	116	421	408	406	425	290	215	443	375	3145
1951	16	140	6	144	376	268	290	360	449	357	280	75	2760
1952	34	8	1	153	305	243	287	261	450	493	257	261	2754
1953	142	9	20	149	409	264	410	236	278	410	381	166	2876
1954	5	17	27	27	500	368	426	312	389	248	342	107	2768
1955	175	7	35	1	140	359	352	576	276	269	425	131	2746
1956	171	26	24	43	333	290	445	250	254	409	424	97	2766
1957	3	10	2	2	102	201	229	178	217	463	364	47	1815
1958	67	9	24	38	348	406	354	269	284	234	282	67	2383
1959	8	1	2	11	110	337	132	278	291	294	178	379	2022
1960	107	3	21	66	503	282	389	334	303	602	331	486	3426
1961	9	1	4	98	210	362	258	402	417	335	267	207	2569
1962	13										246	122	
1963	89	21	0	182	245	383	401	474	235	219	233	8	
1964	0									511	323	117	
1965													
1966					152	272	228	442	321	421	516	546	490
1967	16	1	3	166			388	294	368	460	369	145	
1968	3	26	3	27	246	351	237	380	300	626	291	51	2542
1969	30	0	36	42	170	232	184	512	407	192	317	217	2338
1970	271	30	35	300	430	169	361	432	409	306	309	387	3439
1971	50	7	74	23	307	318	399	429	353	333	307	13	2612
1972	69	15	3	193	213	302	74	152	277	282	251	81	1913

CHICO
MONTHLY RAINFALL IN MM

Latitude	09-15-49			north	Longitude	79-30-35			west	Elevation	103.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1973	8	5	0	8	269	300	279	340	363	427	475	132	2606
1974	10	229	3	30	122	518	173	262	356	366	244	30	2342
1975	0	3	3	23	259	246	353	307	284	427	333	170	2408
1976	15	5	10	79	272	295	102	345	251	239	224	36	1872
1977	23	3	3	13	267	279	112	363	292	414	226	64	2057
1978	18	5	23	173	269	467	343	373	241	282	284	69	2548
1979	5	3	3	193	152	178	523	371	239	297	272	76	2311
1980	36	36	23	23	226	251	175	396	234	315	366	97	2177
1981	53	10	36	348	269	348	312	389	193	229	241	244	2672
1982	81	0	0	76	234	201	287	157	229	422	127	53	1867
1983	10	0	23	112	157	208	208	246	417	587	495	315	2779
1984	10	5	8	0	320	480	284	554	218	490	320	33	2723
1985	30	10	23	48	173	544	404	254	409	300	185	274	2654
1986	15	3	20	122	140	279	140	193	259	681	262	36	2149
1987	13	15	3	249	417	287	500	381	455	467	351	122	3259
1988	3	25	13	46	343	224	455	478	470	518	361	97	3030
1989	20	53	5	25	160	363	325	386	201	320	358	132	2350
1990	61	5	20	20	211	150	259	411	368	627	351	155	2639
1991	10	10	48	114	320	269	224	257	262	312	264	119	2210
1992	10	5	8	94	419	546	351	401	262	300	150	102	2647
1993	41	3	58	147	272	516	178	165	391	373	168	71	2383
1994	18	5	25	36	262	310	175	244	295	406	295	18	2088
1995	15	0	41	84	305	356	246	424	236	389	302	150	2548
1996	254	28	30	127	302	536	183	340	406	338	386	145	3076
1997	10	8	3	64	135	302	188	119	318	284	376	5	1811
1998	5	3	5	64	414	330	381	287	399	401	391	287	2967
1999	38	71	15	53	361	381	356	307	290	353	442	472	3139
2000	43	3	5	66	226	404	165	460	333	478	157	500	2840
Mean	40	18	15	81	280	320	308	336	323	389	338	174	2609
Max	271	229	74	348	617	546	560	593	470	681	1082	500	3831
Min	0	0	0	0	102	139	74	119	185	192	127	5	1811
Std	55	36	15	73	108	98	118	106	77	110	134	134	435
Skew	2.7	4.3	1.6	1.5	0.6	0.6	0.0	0.3	0.2	0.5	2.7	1.0	0.3
CV	1.4	1.9	1.0	0.9	0.4	0.3	0.4	0.3	0.2	0.3	0.4	0.8	0.2

CIENTO
MONTHLY RAINFALL IN MM

Latitude	09-17-52		north	Longitude	79-43-41		west	Elevation	38.0 m				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1945													
1946													
1947					120	178	427	258	257	305	318	253	256
1948	74	0	53	30	391	224	370	404	294	240	330	34	2444
1949	6	0	16	27	266	283	270	292	304	416	828	355	3063
1950	3	59	49	130	158	384	455	418	301	299	727	819	3802
1951	55	187	25	117	494	153	393	392	390	611	452	447	3716
1952	38	7	0	114	540	418	409	392	397	379	213	510	3417
1953	110	74	31	77	248	231	410	359	225	690	450	150	3056
1954	9	30	16	103	341	375	556	421	472	334	577	282	3516
1955	235	70	20	4	320	342	293	418	274	521	595	210	3301
1956	201	46	190	102	698	199	375	343	354	505	460	127	3601
1957	7	19	0	14	211	227	169	232	375	597	530	120	2501
1958	163	85	57	123	180	264	312	208	300	288	268	152	2400
1959	7	0	7	80	252	255	210	307	475	475	442	869	3379
1960	93	9	184	349	380	292	330	300	183	450	408	736	3713
1961	34	9	4	117	251	428	311	403	349	505	485	105	3003
1962	63	12	24	144	703	235	268	235	285				
1963	324	24	21	79	297	321	347	444	306		497	107	
1964	30			68	165	390				597	635		
1965									470	807	1212	311	
1966	100			170		294	468			308	929	982	
1967	7	12	13	118	341	483	341	313	268	475	747	173	3291
1968	2	101	70	29	269	246	222	419	310	527	554	29	2776
1969	62	21	48	101	453	122	518	441	515	313	400	556	3549
1970	451	105	45	348	346	258	401	290	294	639	754	625	4554
1971	214	33	59	1		378	457	353	102	429	328	28	
1972	302	61	28	180	244	264	175	211	264	668	310	175	2883
1973	48	20	8	13	213	292	401	307	419	340	511	117	2690
1974	8	20			297	404	300	165	277	881	551	224	
1975	20	30	122	13	249	297	208	467	239	605	328	394	2972
1976	23	15	3	234	272	221	117	203	343	483	353	13	2278
1977	41	15	15	66	399	188	208	536	323	617	612	152	3172
1978	56	64	41	378	203	257	376	389	163	427	333	97	2781
1979	5	33	8	295	325	264	287	272	251	386	505	196	2827
1980	188	97	5	25	292	295	193	422	135	287	325	198	2461
1981	467	66	81	495	549	429	277	389	185	439	665	831	4874
1982	206	3	0	127	328	254	236	165	485	643	175	43	2664
1983	28	0	3	20	328	376	262	185	363	343	401	389	2697
1984	112	51	8	48	251	310	191	358	221	554	691	30	2824
1985	43	51	25	23	363	297	257	320	241	541	267	475	2903
1986	71	10	53	99	277	437	259	287	384	726	180	155	2939

CIENTO
MONTHLY RAINFALL IN MM

Latitude	09-17-52		north	Longitude	79-43-41		west	Elevation	38.0 m				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1987	25	81	5	373	787	574	264	470	394	907	790	389	5060
1988	3	99	38	38	701	249	429	328	414	630	297	239	3465
1989	20	251	33	15	368	203	348	267	145	475	488	467	3081
1990	20	5	56	66	417	300	300	318	480	584	290	127	2962
1991	15	43	0	53	267	292	244	221	279	203	511	135	2263
1992	41	3	13	188	607	264	236	371	523	244	196	140	2824
1993	122	30	142	81	193	300	272	333	417	478	386	137	2891
1994	107	15	91	36	211	478	257	307	300	333	406	33	2573
1995	188	30	36	274	351	257	353	333	399	300	384	224	3127
1996	411	38	76	107	246	531	201	292	249	157	693	173	3175
1997	23	8	5	15	447	246	71	226	287	201	348	30	1908
1998	15	5	13	208	371	394	305	361	290	300	325	424	3010
1999	48	66	160	259	244	409	292	384	312	292	676	734	3876
2000	160	8	8	74	378	561	290	307	305	823	206	569	3688
Mean	98	42	42	124	351	317	303	330	320	473	477	294	3129
Max	467	251	190	495	787	574	556	536	523	907	1212	982	5060
Min	2	0	0	1	158	122	71	165	102	157	175	13	1908
Std	118	48	47	114	147	101	98	85	99	180	209	251	636
Skew	1.7	2.4	1.8	1.4	1.3	0.7	0.3	0.0	0.1	0.5	1.0	1.1	1.1
CV	1.2	1.1	1.1	0.9	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.9	0.2

COCO SOLO
MONTHLY RAINFALL IN MM

Latitude		north		Longitude				west		Elevation		m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1980									335	417	300	333	
1981	64	5	58	361	533	439	381	523	142	561	955	361	4384
1982	290	36	15	165	142	259	358	201	310	401	201	13	2390
1983	28	3	3	150	229	320	140	424	472	409	445	582	3203
1984	58	36	18	41	310	508	229	282	323	343	467	124	2738
1985	69	13	10	18	439	394	267	498	180	572	480	300	3239
1986	13	15	15	112	262	511	188	373	267	272	218	91	2337
1987	20	20	10	277	582	221	411	556	498	673	427	353	4049
1988	0	51	3	18	211	414	498	284	315	391	396	185	2766
1989	8	36	8	15	206	165	361	356	221	729	470	117	2690
1990	43	3	33	71	345	292	363	462	526	460	310	246	3155
1991	5	8	18	112	328	183	213	264	612	302	640	71	2756
1992	5	13	5	259	399	300	511	467	287	457	287	310	3299
1993	61	20	30	279	142	373	269	432	419	295	470	363	3155
1994	38	8	28	38	305	516	284	343	419	211	381	130	2700
1995	30	28	10	112	475	513	371	224	323	318	546	518	3467
1996													
1997													
1998													
1999													
2000													
Mean	49	19	18	135	327	361	323	379	353	426	437	256	3088
Max	290	51	58	361	582	516	511	556	612	729	955	582	4384
Min	0	3	3	15	142	165	140	201	142	211	201	13	2337
Std	71	15	15	112	136	123	108	112	129	146	181	162	569
Skew	3.2	0.7	1.6	0.7	0.4	-0.1	0.1	-0.1	0.4	0.7	1.5	0.4	1.0
CV	1.4	0.8	0.8	0.8	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.6	0.2

CRISTOBAL
MONTHLY RAINFALL IN MM

Latitude	09-21-00			north	Longitude		79-54-00			west	Elevation	12.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1881			27	64	255	388	311	164	160	328	562	263	
1882	42	28	43	44	336	480	485	354	270	380	561	129	3152
1883	47	12	14	45	301	256	340	646	283	426	282	278	2930
1884	86	10	10	110	258	262	396	337	238	220	179	92	2198
1885	22	15	14	34	201	422	584	516	443	203	614	648	3716
1886	54	127	233	40	334	416	282	310	191	364	556	577	3484
1887	51	17	12	270	261	419	433	429	397	498	808	339	3934
1888	16	39	32										
1889													
1890	184	26	51	76	248	438	260	521	584	553	495	484	3920
1891	64	13	38	13	584	203	356	406	444	444	495	108	3168
1892	25	51	101	127	458	431	553	406	413	170	668	287	3690
1893	44	97	46	205	167	313	292	384	252	312	452	786	3350
1894	136	42	9	55	250	311	485	585	477	315	601	638	3904
1895	98	48	53	552	426	235	434	359	307	418	520	399	3849
1896	102	33	51	229	418	216	345	394	326	355	397	474	3340
1897	87	1	7	95	415	478	357	438	437	148	563	480	3506
1898	128	9	40	120	326	416	556	277	260	289	312	202	2935
1899	176	165	32	11	353	163	703	376	420	383	368	230	3380
1900	154	8	27	19	311	296	427	432	238	415	515	105	2947
1901	33	24	42	38	157	281	252	318	302	321	831	137	2737
1902	488	15	59	113	282	178	427	147	281	362	309	180	2841
1903	25	9	24	42	374	277	425	362	295	255	719	400	3208
1904	178	12	42	291	281	402	361	283	352	207	669	178	3256
1905	214	29	16	58	583	206	230	381	173	342	455	241	2928
1906	37	29	36	107	256	358	488	465	317	339	677	397	3507
1907	63	35	55	27	161	429	454	480	298	559	390	238	3187
1908	98	27	90	32	571	267	375	429	294	278	806	230	3498
1909	269	49	47	90	183	444	326	392	415	490	1080	873	4659
1910	75	91	139	84	307	346	535	379	306	398	763	386	3808
1911	25	46	36	78	435	396	370	295	295	420	402	67	2864
1912	7	46	17	19	306	404	334	251	311	448	554	291	2987
1913	170	44	20	68	574	300	384	455	251	473	425	166	3333
1914	34	34	23	105	451	414	273	407	376	563	466	226	3371
1915	87	314	43	265	197	407	526	327	352	555	567	240	3880
1916	59	50	68	159	238	363	265	212	264	447	358	145	2628
1917	28	11	19	47	308	365	345	401	449	200	520	296	2990
1918	83	17	10	136	489	217	263	479	390	688	361	48	3182
1919	46	9	15	278	177	307	345	172	298	557	168	187	2561
1920	13	14	27	44	139	338	447	585	173	436	540	52	2808
1921	33	41	25	189	346	386	266	469	285	210	507	165	2922
1922	174	18	23	54	226	211	112	369	323	352	397	183	2442

CRISTOBAL
MONTHLY RAINFALL IN MM

Latitude	09-21-00			north	Longitude	79-54-00			west	Elevation		12.0 m	
	Jan	Feb	Mar			Apr	May	Jun		Oct	Nov	Dec	Annu
1923	50	18	9	31	284	385	262	390	313	1071	563	130	3506
1924	15	71	18	276	377	419	524	188	229	548	769	225	3659
1925	93	19	8	139	209	350	535	196	208	419	583	153	2911
1926	18	45	11	9	349	793	410	529	265	389	747	193	3758
1927	117	82	32	176	358	349	473	676	440	333	720	424	4181
1928	43	18	61	22	323	412	261	622	393	458	437	417	3468
1929	21	14	66	17	256	482	474	604	201	349	228	200	2911
1930	62	19	27	174	361	239	228	364	276	184	430	200	2566
1931	51	25	114	109	450	235	339	445	209	519	770	88	3354
1932	37	24	68	57	420	365	443	307	182	425	943	194	3466
1933	53	2	28	9	206	403	251	210	231	504	1094	469	3461
1934	100	14	28	139	303	251	51	352	541	444	732	398	3353
1935	148	79	20	47	436	413	666	374	541	226	1085	331	4367
1936	39	3	22	84	327	268	475	350	370	289	587	90	2904
1937	107	12	8	42	533	684	241	337	358	421	590	837	4169
1938	58	28	43	159	324	457	565	567	267	438	480	744	4130
1939	12	13	16	25	160	320	169	296	430	445	894	434	3214
1940	68	46	16	46	279	366	404	484	350	414	531	108	3112
1941	83	73	58	9	228	293	531	431	502	639	611	155	3612
1942	39	18	84	212	227	472	441	273	549	804	320	603	4041
1943	55	66	29	100	413	309	265	508	267	260	551	383	3206
1944	31	75	5	227	646	160	300	467	112	512	417	568	3520
1945	48	22	11	48	207	168	503	449	294	466	617	523	3356
1946	53	19	20	14	137	245	313	337	359	390	649	678	3214
1947	9	45	9	170	184	238	323	434	369	450	316	313	2860
1948	21	4	31	40	185	237	402	293	288	384	569	110	2563
1949	22	8	12	53	285	323	320	396	245	450	931	403	3449
1950	22	101	55	108	184	352	437	426	260	349	994	502	3790
1951	23	143	15	215	281	275	326	329	258	486	270	283	2905
1952	83	24	1	177	399	460	530	516	248	536	527	507	4008
1953	174	51	44	60	215	151	456	294	312	468	555	231	3012
1954	35	44	17	109	316	384	438	494	271	248	699	265	3319
1955	284	45	34	11	341	277	243	341	80	355	608	361	2980
1956	260	36	113	61	464	247	629	377	297	398	755	170	3808
1957	27	10	12	2	156	301	282	538	292	213	710	178	2721
1958	170	85	142	130	167	199	483	324	400	664	370	194	3329
1959	80	1	10	101	353	236	391	284	542	260	405	562	3224
1960	69	15	120	264	614	321	277	279	214	490	814	741	4219
1961	17	6	19	58	240	257	253	263	328	392	557	228	2617
1962	58	15	18	57	585	168	618	457	334	296	644	453	3704
1963	179	162	10	58	336	346	227	348	285	161	577	89	2777
1964	19	17	14	86	239	447	474	478	345	299	365	52	2833

CRISTOBAL
MONTHLY RAINFALL IN MM

Latitude	09-21-00			north	Longitude		79-54-00			west	Elevation	12.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1965	122	36	2	56	307	233	249	516	359	602	655	194	3331
1966	28	14	67	165	392	86	352	515	339	378	891	353	3580
1967	24	11	13	75	197	459	420	217	304	479	702	265	3164
1968	5	40	63	13	226	295	495	347	380	328	340	88	2620
1969	65	26	52	31	516	145	354	513	466	280	402	390	3239
1970	234	53	44	375	535	247	499	305	341	300	818	474	4224
1971	188	42	74	8	253	556	253	399	386	330	366	28	2883
1972	302	61	15	340	175	381	218	320	257	559	203	157	2990
1973	76	3	5	28	267	277	447	384	366	345	419	203	2819
1974	10	13	10	20	198	617	470	244	137	594	876	127	3317
1975	5	25	43	10	107	371	292	455	284	572	325	518	3007
1976	28	15	5	122	168	389	135	366	229	528	310	33	2327
1977	25	18	3	48	356	312	206	564	295	541	602	107	3076
1978	46	36	43	292	135	523	213	356	208	498	272	56	2677
1979	8	20	0	343	432	437	325	300	292				
1980													
Mean	81	38	37	106	315	338	377	390	318	409	564	302	3282
Max	488	314	233	552	646	793	703	676	584	1071	1094	873	4659
Min	5	1	0	2	107	86	51	147	80	148	168	28	2198
Std	80	43	36	100	126	117	126	111	98	144	208	198	490
Skew	2.2	3.5	2.5	1.7	0.7	0.8	0.1	0.2	0.4	1.1	0.5	0.9	0.4
Cv	1.0	1.1	1.0	0.9	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.7	0.1

DIABLO HEIGHTS
MONTHLY RAINFALL IN MM

Latitude	08-57-56		north	Longitude	79-34-24		west	Elevation	4.5 m				
	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981													
1982													
1983	0	0	0	64	295	168	119	325	152	282	251	91	1748
1984	76	58	0	30	178	224	165	170	241	406	180	13	1742
1985	23	0	23	94	119	282	94	97	251	175	178	160	1496
1986	3	5	15	76	43	104	119	114	361	183	191	137	1351
1987	0	8	0	107	302	193	246	150	183	345	173	81	1788
1988	0	5	10	23	262	396	165	292	201	310	178	137	1979
1989	28	5	5	0	145	117	155	264	147	191	310	86	1453
1990	36	10	8	53	251	234	259	168	147	226	137	122	1651
1991	10	3	20	64	290	229	269	91	335	208	239	46	1803
1992	0	8	0	23	216	170	221	279	279	307	274	130	1908
1993	25	0	74	66	330	168	373	160	221	213	224	102	1956
1994	3	3	36	48	241	165	104	206	175	279	333	76	1669
1995	0	5	51	58	234	368	231	180	328	264	135	109	1963
1996	160	91	30	97	389	246	226	168	137	257	287	112	2200
1997	135	25	0	13	201	297	188	97	234	300	318	10	1816
1998	0	25	0	48	310	264	201	178	254	170	183	211	1844
1999	43	5	61	109	279	244	140	198	203	216	295	315	2108
2000	69	71	5	79	160	257	191	130	312	277	165	145	1859
Mean	34	18	19	58	236	229	193	181	231	256	225	116	1796
Max	160	91	74	109	389	396	373	325	361	406	333	315	2200
Min	0	0	0	0	43	104	94	91	137	170	135	10	1351
Std	48	27	23	32	84	77	70	69	70	64	65	70	219
Skew	1.7	1.9	1.3	-0.1	-0.5	0.5	0.8	0.7	0.4	0.6	0.3	1.2	-0.3
CV	1.4	1.5	1.2	0.5	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.6	0.1

ESCANDALOSA
MONTHLY RAINFALL IN MM

Latitude		09-25-25		north	Longitude	79-34-42		west	Elevation	480.0 m			
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1947													
1948	119	30	32	110						249	352	156	
1949	56	56	32	142	347	573	437	392	278	391	411	291	3406
1950	87	174	44	225	445	301	682	202	250	241	542	572	3765
1951	115	382	62	272	352	294	220	429	285	402	276	182	3270
1952	134	39	4	145	398	248	557	460	294	516	184	583	3564
1953	381	115	100	88	354	247	394	284	231	314	372	348	3229
1954	82	99	58	216	421	416	531	360	251	302	590	493	3818
1955	385	60	65	88	292	234	283	501	278	193	832	360	3571
1956	385	101	223	116	532	271	476	284	256	223	566	258	3691
1957	92	64	11	12	270	196	113	281	208	297	597	239	2379
1958	161	107	150	44	287	115	515	265	375	252	356	288	2915
1959	42	26	13	192	284	378	353	249	470	435	607		
1960						302							
1961	72	24	49	193	209	725	239	291	195	283	306	210	2795
1962	124	30	65	81								242	
1963	225	69	43	218	345	483	538	520	339	240	344	108	3473
1964	49	21	40	203	360	520	251	405	244	329	369	86	2877
1965	171				467	386	232	228	310	544	599		
1966			25			177	322	297			712	399	
1967	133	111	79	268	457	463	426	259	315	235	645	333	3725
1968	24	110	224	73	423	245	332	286	260	430	417	124	2946
1969	106	49	76	73									
1970			109	368	516	191	262	330	231	163	686	838	
1971	99	74	178	33	310	480	371	297	229	480	338	127	3015
1972	450	89	38	363	386	343	185	251	297	353	246	239	3241
1973	130	81	10	25	404	394	450	338	307	315	665	290	3409
1974	86	56	53	102	330	246	386	246	224	333	536	109	2708
1975	91	20	71	69	447	300	452	307	254	480	422	549	3462
1976	56	81	89	257	170	239	142	262	450	411	318	76	2550
1977	130	36	30	71	178	272	315	422	345	343	287	269	2697
1978	74	94	84	394	358	333	290	328	279	251	325	155	2964
1979	25	79	61	300	292	269	249	127	135	305	401	490	2733
1980	38	124	30	109	467	445	135	193	257	356	345	300	2799
1981	173	104	130	960	287	320	470	302	165	249	437	488	4084
1982	130	64	25	254	175	290	419	361	203	312	145	150	2527
1983	61	3	18	241	384	218	206	328	366	315	300	843	3282
1984	157	79	28	71	254	485	389	551	259	338	452	300	3363
1985	107	64	48	64	368	432	236	216	417	259	323	493	3025
1986	124	41	53	417	391	368	137	287	310	300	340	91	2860
1987	81	76	28	625	439	320	373	399	345	569	523	208	3988
1988	43	165	64	61	363	170	676	409	257	630	297	259	3393

ESCANDALOSA
MONTHLY RAINFALL IN MM

Latitude	09-25-25			north	Longitude	79-34-42			west	Elevation	480.0 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1989	117	259	36	53	417	351	526	467	269	424	465	290	3673
1990	206	64	145	91	490	224	246	394	310	531	297	234	3231
1991	94	71	84	170	605	257	246	213	465	206	770	244	3424
1992	71	41	43	269	714	366	361	518	348	259	315	239	3543
1993	168	28	274	432	264	533	269	208	457	518	386	221	3759
1994	58	66	157	66	493	599	257	452	251	323	554	132	3409
1995	165	18	28	140	300	544	490	175	239	269	526	556	3449
1996	559	165	107	251	582	312	277	348	213	269	737	414	4234
1997	56	140	41	33	490	264	201	168	178	284	102	41	1996
1998	56	13	38	366	279	333	391	351	414	290	246	480	3256
1999	94	117	157	264	394	310	493	277	254	335	439	1052	4186
2000	246	76	94	152	356	518	257	376	142	455	318	787	3777
Mean	138	83	73	197	378	346	348	324	286	343	432	331	3277
Max	559	382	274	960	714	725	682	551	470	630	832	1052	4234
Min	24	3	4	12	170	115	113	127	135	163	102	41	1996
Std	113	65	60	170	112	127	138	100	81	108	166	220	492
Skew	2.1	2.5	1.6	2.2	0.5	0.8	0.4	0.4	0.6	0.8	0.5	1.3	-0.3
CV	0.8	0.8	0.8	0.9	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.7	0.2

EMPIRE HILLS
MONTHLY RAINFALL IN MM

Latitude	09-03-29			north	Longitude	79-39-53			west	Elevation	61.0 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1905						83	158	289	168	457	132	143	
1906	33	14	11	295	192	177	321	311	168	228	483	268	2500
1907	2	3	4	2	162	336	251	285	276	392	264	37	2016
1908	19	0	10	35	328	209	299	206	248	225	113	129	1822
1909	58	38	5	85	196	199	210	183	183	537	533	240	2468
1910	18	19	41	108	281	258	320	256	228	319	225	230	2303
1911	1	14	5	100	349	150	102	152	139	380	298	5	1694
1912	0	9	0	67	158	216	232	267	350	316	184	94	1894
1913	42	20	6	23	298	292	124	266	232	184	361	52	1899
1914	9	7	0	13	327	225	128	251	245	230	152	113	1700
1915	17	90	6	126	217	181	309	252	209	416	269	119	2210
1916	27	38	21	103	252	179	200	144	234	363	421	130	2111
1917	0	2	0	61	205	311	304	223	291	162	604	196	2358
1918	38	1	5	176	344	236	235	132	235	512	183	10	2105
1919	13	6	1	191	178	141	196	216	280	315	169	62	1769
1920	4	1	20	38	195	280	284	254	481	397	236	40	2230
1921	4	40	13	17	185	238	298	353	199	347	266	112	2071
1922	91	23	7	0	279	221	166	124	160	293	288	109	1761
1923	26	1	0	6	230	451	99	244	199	492	269	81	2098
1924	0	23	21	108	195	267	218	262	202	324	444	144	2208
1925	43	2	6	192	308	246	224	214	343	366	234	49	2226
1926	2	2	0	0	268	280	439	188	344	434	180	251	2388
1927	8	44	0										
1928													
1929													
1930													
1931													
1932													
1933													
1934													
1935													
1936													
1937													
1938													
1939													
1940													
1941													
1942													
1943													
1944													
1945													
1946													

EMPIRE HILLS
MONTHLY RAINFALL IN MM

Latitude	09-03-29		north	Longitude	79-39-53		west	Elevation	61.0 m				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1947													
1948													
1949													
1950													
1951													
1952													
1953													
1954													
1955													
1956													
1957													
1958													
1959													
1960													
1961													
1962	19	6	2	59	242	243	141	220	278	231	263	90	1793
1963	68	28	1	198	215	256	303	208	227	167	320	81	2071
1964	7	0	1	113	302	295	323	188	272				
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													10
1978													
1979		3	0	175	328	249	185	213	127	450	274	89	
1980	61	23	0	13	241	290	267	267	239	218	302	122	2042
1981	15	0	61	292	221	381	272	155	267	137	320	142	2263
1982	76	13	0	74	335	124	208	211	244	279	165	0	1730
1983	3	3	18	64	234	216	175	163	363	279	312	165	1994
1984	36	58	0	25	244	224	239	384	345	470	188	8	2220
1985	8	8	25	43	287	389	310	170	267	150	165	145	1966
1986	3	5	69	173	91	269	170	292	244	572	193	28	2108
1987	0	10	0	163	178	328	231	340	409	259	234	94	2245
1988	0	13	3	20	269	325	201	325	259	564	320	160	2459

EMPIRE HILLS
MONTHLY RAINFALL IN MM

Latitude	09-03-29			north	Longitude		79-39-53			west	Elevation	61.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1989	10	13	5	0	122	175	221	340	137	239	348	142	1753
1990	30	3	13	61	371	102	391	371	345	526	272	191	2675
1991	38	8	53	102	495	231	302	368	432	401	241	71	2743
1992	0	3	3	79	132	508	262	191	229	376	213	46	2040
1993	99	5	18	89	173	559	302	241	523	340	366	124	2840
1994	20	3	51	51	320	231	112	236	224	493	417	20	2177
1995	10	0	23	137	277	318	310	188	173	254	384	64	2136
1996	183	15	15	36	264	137	226	188	224	249	206	99	1842
1997	8	0	0	15	163	127	208	185	185	196	196	10	1293
1998	0	3	0	43	279	279	262	399	272	264	333	320	2454
1999	28	53	13	64	178	361	94	221	475	249	264	239	2238
2000	79	0	3	112	221	249	147	244	310	323	160	157	2004
Mean	27	14	12	86	246	256	234	242	266	334	278	111	2112
Max	183	90	69	295	495	559	439	399	523	572	604	320	2840
Min	0	0	0	0	91	83	94	124	127	137	113	0	1293
Std	35	186	17	73	76	97	78	69	91	118	106	77	305
Skew	2.4	2.1	2.0	1.1	0.6	1.0	0.2	0.5	1.0	0.3	1.0	0.7	0.1
CV	1.3	1.3	1.4	0.9	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.7	0.1

EL CHORRO
MONTHLY RAINFALL IN MM

Latitude	08-58-32		north	Longitude	79-59-25		west	Elevation	42.5 m				
	Jan	Feb			Mar	Apr			Jul	Aug	Sep	Oct	Dec
Year													
1945													
1946													
1947													
1948	44	4	7	6	226	130	247	267	256	195	519	74	1975
1949	27	8	3	54	275	298	161	290	490	416	496	247	2765
1950	19	44	6	73	377	421	297	242	324	255	541	336	2936
1951	38	114	10	128	202	135	280	198	260	239	397	164	2166
1952	75	39	4	78	198	153	94	205	147	364	213	301	1871
1953	186	4	11	44	271	98	154	126	182	286	417	152	1929
1954	29	21	15	117	414	312	374	382	271	265	383	164	2747
1955	223	12	60	25	293	241	251	385	294	229	422	192	2627
1956	128	25	61	108	297	213	296	113	230	364	199	74	2110
1957	27	5	3	1	394	151	196	234	122	349	210	168	1860
1958	149	125	99	70	295	287	158	274	295	328	126	92	2300
1959	13	0	10	60	181	250	158	185	262	396	199	394	2110
1960	58	9	128	248	225	374	202				274	522	
1961	25	12	25	28	200	286	132	234	515	376	340	133	2306
1962	21	23	21	78	256	228	295	310	393	247	271	206	2349
1963	101	29	58	229	275	391	315	535	461			189	
1964	26												
1965	110	5	0		125	105	61	273	173	466	434	125	
1966	47	1	22	62	271	271	201	328		135		309	
1967	37	10	54	112	214	259	185	316	270	385	269	49	2160
1968	5	129	66	13	389	468	80	288	386	399	268	39	2530
1969	63	36	4	174	229	245	132	307	173	421	383	176	2343
1970	155	53	108	115	325	219	163	306	330	269	398	430	2871
1971	108	55	68	5	449	323	153	323	196	264	310	41	2295
1972	160	51	28	257	211	305	102	173	295	267	198	51	2096
1973	23	3	0	69	229	284	124	132	269	480	495	206	2314
1974	8	25	18	30	122	165	246	183	183	457	394	43	1875
1975	8	30	25	18	315	320	201	318	312	681	472	373	3073
1976	33	23	0	119	213	119	89	102	315	358	124	61	1557
1977	18	10	3	23	251	109	165	272	211	409	305	91	1867
1978	84	13	79	302	356	356	246	272	198	373	173	25	2477
1979	13	0	3	132	203	305	335	206	259	216	155	102	1928
1980	86	48	3	43	376	244	389	226	198	310	429	178	2530
1981	170	30	38	307	373	262	262	325	145	211	373	246	2743
1982	147	13	20	69	267	191	132	264	218	384	140	15	1859
1983	28	10	18	28	218	137	165	259	277	246	249	152	1788
1984	91	97	20	25	274	30	122	417	381	318	399	43	2217
1985	74	23	18	38	163	325	191	163	221	107	180	203	1704
1986	58	10	10	211	269	180	117	241	191	366	386	61	2101

EL CHORRO
MONTHLY RAINFALL IN MM

Latitude	08-58-32			north	Longitude		79-59-25			west	Elevation		42.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Annu
1987	33	20	3	91	330	155	226	234	538	231	64	99	2024	
1988	5	20	5	53	259	290	272	234	279	213	295	160	2085	
1989	33	36	13	28	173	206	218	257	239	236	318	165	1920	
1990	15	3	33	58	483	175	221	254	404	414	335	84	2479	
1991	33	8	208	5	381	140	130	132	333	216	287	117	1989	
1992	0	10	3	163	274	249	178	231	429	183	236	122	2078	
1993	38	18	79	183	231	284	124	130	399	358	427	142	2413	
1994	56	8	71	38	196	180	89	157	183	404	409	3	1793	
1995	102	3	10	109	272	234	221	320	239	300	249	249	2306	
1996	325	86	117	76	315	312	208	231	356	259	340	66	2692	
1997	23	15	0	38	109	89	206	97	251	102	290	20	1240	
1998	13	13	38	170	221	193	180	102	239	295	269	490	2223	
1999	81	51	97	102	127	345	155	450	356	170	417	371	2720	
2000	117	23	10	51	323	318	175	386	175	328	191	272	2367	
Mean	68	28	35	91	268	238	194	253	292	315	310	168	2223	
Max	325	129	208	307	483	468	389	535	761	681	541	522	3073	
Min	0	0	0	1	109	30	61	97	122	102	64	3	1240	
Std	65	31	42	78	84	93	75	93	119	111	116	125	380	
Skew	1.7	1.9	1.9	1.2	0.4	0.1	0.6	0.5	1.6	0.6	0.0	1.1	0.1	
CV	1.0	1.1	1.2	0.9	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.2	

GAMBOA
MONTHLY RAINFALL IN MM

Latitude	09-06-44			north	Longitude	79-41-38			west	Elevation	31.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1881						270	316	233	264	281	329	121	
1882			13	38	398	159	257	251	300	207	300	35	
1883			0	66	246	280	166	405	105	255	178	160	
1884	0	18	7	164	157	339	244	419	268	568	157	56	2398
1885	5	5	0	35	281	263	230	394	409	237	336	281	2476
1886	14	27	18	70	399	268	297	416	232	346	409	117	2613
1887	56	2	7	174	280	494	356	487	292	378	611	322	3459
1888	3	16	9	32	520	303	83	260	312	243	411	415	2607
1889	50	115	36	0	111	231	185	267	290	332	221	85	1923
1890	103	9	60	77	337	296	265	390	226	544	252	109	2668
1891	16	0	9	54	190	236	154	216	266	399	271	162	1973
1892	28	17	65	120	427	217	355	364	349	282	260	167	2651
1893	17	27	18	189	302	272	403	202	260	419	319	530	2959
1894	37	4	1	34	278	234	290	194	385	403	248	199	2307
1895	14			129	390		238						
1896				116	85	73	141						
1897	24	5	0	82	443	321	231	437	478	325	150	230	2726
1898	70	3	0	36	135	118	468	512	104	221	370	61	2099
1899	127	44	34	36	217	223	240	278	342	202	221	68	2032
1900	26	4	3	82	172	309	342	227	235	308	271	20	1996
1901	9	6	5	20	276	195	234	352	214	359	485	170	2326
1902	340	4	111	241	277	160	159	214	226	328	365	57	2483
1903	17	3	8	10	288	280	342	327	236	360	303	351	2527
1904	85	58	49	305	170	247	127	178	316	242	305	115	2196
1905	70	1	10	75	272	218	147	294	169	377	139	170	1942
1906	35	12	4	164	158	204	452	288	239	152	404	297	2409
1907	7	7	9	11	152	246	201	322	356	331	265	75	1982
1908	5	1	13	67	384	156	290	301	160	226	186	176	1964
1909	70	103	14	141	390	243	294	179	201	431	722	313	3102
1910	31	46	79	98	282	307	432	271	311	328	429	333	2946
1911	3	18	10	102	369	177	184	195	132	324	256	25	1795
1912	2	28	3	20	202	296	362	423	324	345	167	92	2262
1913	67	17	2	27	384	204	205	418	241	221	359	46	2192
1914	16	6	1	35	261	452	99	202	292	249	196	156	1965
1915	44	70	1	180	130	229	204	115	252	405	253	178	2059
1916	55	39	23	170	311	214	244	310	289	342	250	121	2367
1917	2	8	7	101	207	199	451	321	252	285	560	211	2602
1918	78	2	14	80	291	257	165	218	193	438	149	32	1917
1919	14	5	1	178	148	153	170	187	239	298	89	94	1575
1920	1	3	5	38	193	190	374	228	322	633	346	77	2410
1921	2	137	2	29	150	325	288	398	266	300	177	112	2188
1922	206	36	2	6	382	231	155	183	222	300	167	169	2060

GAMBOA
MONTHLY RAINFALL IN MM

Latitude	09-06-44			north	Longitude		79-41-38			west	Elevation	31.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1923	26	4	1	8	320	370	218	239	275	649	267	21	2396
1924	2	47	34	104	267	167	173	391	283	224	512	123	2326
1925	85	5	7	71	173	168	197	330	289	245	313	98	1981
1926	1	5	1	0	146	356	457	338	303	231	186	231	2253
1927	9	20	2	199	212	313	304	210	189	191	188	96	1934
1928	9	6	70	78	259	211	151	213	258	297	394	122	2067
1929	8	0	24	19	253	195	229	327	197	356	229	77	1913
1930	7	23	3	189	357	159	257	239	184	234	148	21	1822
1931	3	48	62	97	233	324	313	171	274	164	484	132	2306
1932	12	3	3	253	212	374	183	264	146	360	425	81	2317
1933	31	0	6	3	295	301	149	250	266	186	418	251	2155
1934	49	16	3	120	275	207	132	235	320	506	364	144	2370
1935	16	19	1	79	296	235	525	336	294	197	794	118	2909
1936	5	2	9	74	371	250	243	187	255	570	234	53	2254
1937	97	20	1	40	178	191	183	252	341	281	421	627	2630
1938	22	7	24	43	446	345	331	307	243	373	398	323	2862
1939	3	1	2	2	141	237	173	188	229	209	459	237	1883
1940	36	11	6	13	268	206	169	342	263	381	231	22	1948
1941	33	37	6	23	151	248	254	158	250	249	163	194	1767
1942	19	12	68	65	279	281	206	220	213	488	194	362	2407
1943	44	20	10	78	348	326	116	136	202	198	457	326	2263
1944	15	3	1	64	261	143	164	367	215	384	207	114	1937
1945	6	1	2	119	242	107	346	297	239	223	313	169	2064
1946	14	2	9	16	185	166	305	141	185	203	250	184	1660
1947	3	18	5	36	168	184	248	268	293	255	251	84	1812
1948	48	0	2	11	360	147	251	174	224	308	381	47	1955
1949	0	0	12	44	191	315	251	240	183	299	394	99	2030
1950	7	10	20	50	235	336	354	204	193	163	434	174	2180
1951	15	51	7	100	343	120	238	173	105	213	247	187	1798
1952	31	12	2	64	292	332	213	106	193	385	126	241	1995
1953	54	9	4	95	293	130	205	263	125	284	257	104	1822
1954	35	36	19	98	209	186	527	358	192	193	397	48	2297
1955	133	17	6	8	243	354	165	230	162	149	363	147	1976
1956	92	24	15	26	352	146	287	177	139	442	255	103	2056
1957	0	1	0	5	311	236	233	239	393	388	280	36	2122
1958	40	5	14	55	325	200	177	221	221	280	169	60	1768
1959	7	0	0	48	321	141	170	226	229	207	248	274	1871
1960	66	17	38	90	218	349	318	233	205	340	241	287	2402
1961	7	8	5	150	113	382	252	225	264	331	222	181	2141
1962	20	0	7	101	173	238	156	237	293	310	229	86	1850
1963	138	38	0	50	255	279	219	234	227	211	424	84	2158
1964	2	0	3	67	363	263	321	239	279	218	346	20	2122

GAMBOA
MONTHLY RAINFALL IN MM

Latitude	09-06-44			north	Longitude	79-41-38			west	Elevation	31.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1965	33	2	1	0	319	192	167	217	187	269	410	153	1950
1966	16	1	1	66	138	383	143	158	296	179	445	202	2027
1967	8	0	7	89	189	302	286	217	363	359	220	56	2097
1968	0	72	0	18	233	330	176	299	312	294	386	33	2154
1969	21	6	7	72	248	130	199	251	279	242	367	161	1981
1970	175	7	78	148	264	135	261	291	269	328	369	290	2614
1971	146	40	50	28	283	153	240	348	229	345	272	18	2153
1972	97	13	36	191	185	312	241	175	356	330	297	94	2327
1973	8	5	0	25	188	371	356	178	305	224	439	48	2146
1974	13	3	33	10	267	361	363	135	208	455	213	114	2174
1975	3	5	15	10	284	244	361	470	193	343	249	229	2405
1976	8	0	3	28	127	216	81	122	277	206	188	25	1280
1977	10	5	0	38	229	196	267	404	191	389	213	127	2068
1978	5	8	28	140	310	257	376	170	213	310	198	163	2177
1979	3	5	3	259	241	345	208	163	152	284	152	61	1877
1980	107	36	3	15	218	302	254	312	259	312	132	130	2080
1981	41	0	76	318	211	315	356	201	155	211	462	168	2512
1982	147	8	3	64	343	119	175	185	226	338	193	20	1821
1983	8	0	0	51	269	254	147	178	384	310	287	213	2101
1984	20	64	0	38	251	320	218	411	414	406	333	5	2482
1985	13	8	18	8	292	259	234	193	351	150	112	157	1793
1986	0	13	64	109	64	356	122	236	175	508	130	18	1793
1987	0	13	3	185	206	287	287	262	274	272	198	74	2060
1988	0	5	5	23	173	224	137	239	239	340	277	69	1730
1989	3	8	0	0	107	208	241	287	234	401	429	91	2009
1990	36	0	8	23	315	84	203	203	302	381	269	208	2032
1991	28	0	20	69	361	284	279	274	381	366	185	46	2294
1992	10	5	0	99	188	373	378	188	284	274	145	51	1996
1993	109	5	66	127	163	366	231	224	523	389	340	84	2626
1994	23	15	53	15	363	239	191	267	330	368	483	81	2428
1995	18	3	30	122	396	432	518	538	333	536	729	211	3866
1996	234	18	41	61	257	239	216	310	257	320	310	38	2299
1997	13	5	3	13	318	152	241	183	135	384	254	15	1715
1998	0	3	3	218	191	224	262	323	290	211	290	188	2200
1999	33	102	36	97	274	277	97	284	373	218	305	373	2469
2000	36	8	3	91	330	315	160	274	305	318	216	216	2271
Mean	38	17	16	79	259	251	249	265	258	315	303	145	2199
Max	340	137	111	318	520	494	527	538	523	649	794	627	3866
Min	0	0	0	0	64	73	81	106	104	149	89	5	1280
Std	53	25	22	68	87	81	95	89	75	102	129	109	369
Skew	2.8	2.7	1.9	1.3	0.2	0.2	0.8	0.8	0.5	0.9	1.2	1.5	1.3

GAMBOA
MONTHLY RAINFALL IN MM

Latitude	09-06-44		north	Longitude	79-41-38		west	Elevation	31.5 m				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
CV	1.4	1.5	1.4	0.9	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.8	0.2

GATUN
MONTHLY RAINFALL IN MM

Latitude	09-16-06			north	Longitude		79-55-14			west	Elevation		30.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Annu
1905	219	51	7	44	732	266	333	613	262	526	429	302	3783	
1906	36	34	60	209	305	331	321	480	382	450	623	475	3706	
1907	84	66	87	36	243	390	282	416	204	489	362	140	2800	
1908	81	33	71	37	439	339	347	412	216	310	543	202	3031	
1909	182	105	76	102	228	415	291	252	276	395	1044	804	4170	
1910	122	85	231	126	398	290	484	352	323	407	662	489	3968	
1911	30	56	46	162	486	374	169	201	110	430	401	57	2522	
1912	23	60	14	106	351	376	301	304	199	369	487	249	2840	
1913	118	74	26	137	433	272	247	313	253	385	403	205	2865	
1914	41	27	24	83	277	321	109	385	278	359	319	117	2342	
1915	46	335	23	404	260	322	463	313	409	497	464	184	3718	
1916	27	56	83	120	288	272	246	152	209	416	486	107	2460	
1917	28	16	13	250	385	315	452	452	310	255	786	294	3557	
1918	102	13	14	169	296	211	207	455	185	577	292	49	2570	
1919	36	14	15	306	182	319	200	230	214	443	183	168	2309	
1920	18	25	18	4	67	187	388	387	168	446	248	83	2040	
1921	51	70	20	119	358	336	335	501	348	231	534	229	3132	
1922	241	33	29	60	323	319	134	184	304	452	445	204	2726	
1923	57	14	12	40	259	293	221	394	308	1010	389	171	3168	
1924	19	95	22	359	315	320	394	252	317	352	706	150	3300	
1925	76	28	18	208	212	228	365	194	356	311	528	142	2666	
1926	23	42	18	15	319	477	596	354	232	430	610	231	3346	
1927	145	64	67	204	421	286	346	375	247	289	452	405	3301	
1928	51	32	73	33	293	385	274	500	251	376	520	526	3316	
1929	19	14	49	36	303	273	193	488	214	398	383	140	2510	
1930	72	37	15	175	270	229	268	252	328	284	512	176	2617	
1931	67	43	100	180	416	225	436	347	121	451	811	60	3258	
1932	76	17	43	91	319	421	325	266	202	462	1185	406	3812	
1933	66	5	25	8	219	449	327	126	301	420	1055	550	3552	
1934	67	20	33	156	381	298	323	351	433	423	693	413	3590	
1935	121	74	19	62	288	389	550	404	341	279	1123	495	4147	
1936	35	6	37	56	326	201	324	412	377	310	579	174	2837	
1937	132	19	14	44	478	354	302	412	265	535	427	612	3592	
1938	50	29	38	162	385	467	419	481	292	338	469	760	3889	
1939	18	10	21	37	119	480	153	331	347	382	897	467	3261	
1940	139	70	53	29	187	226	226	562	199	442	444	68	2644	
1941	107	96	67	30	214	233	371	351	359	681	521	115	3144	
1942	58	46	152	186	414	263	257	280	506	676	207	531	3576	
1943	48	68	87	149	468	289	236	326	416	333	507	382	3310	
1944	76	54	18	256	602	191	259	430	193	557	367	500	3502	
1945	73	26	20	39	369	196	388	455	284	437	822	595	3704	
1946	69	12	32	36	164	199	325	301	395	415	560	588	3094	

GATUN
MONTHLY RAINFALL IN MM

Latitude	09-16-06			north	Longitude		79-55-14			west	Elevation	30.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1947	21	29	21	144	201	224	349	255	232	272	264	288	2298
1948	75	8	20	155	263	167	357	279	225	380	404	146	2480
1949	33	38	16	62	265	534	270	395	237	452	755	411	3468
1950	33	70	31	91	158	377	354	423	213	202	736	600	3288
1951	22	170	27	239	315	217	203	233	245	449	328	282	2731
1952	109	29	12	229	241	287	384	308	241	476	358	509	3183
1953	139	27	61	152	329	75	492	314	196	497	401	235	2918
1954	50	64	25	90	297	287	322	377	431	327	832	352	3452
1955	294	31	39	18	364	357	177	285	192	328	520	344	2948
1956	311	61	150	84	505	162	476	324	345	553	596	165	3733
1957	33	11	17	6	248	279	230	354	445	254	540	189	2605
1958	209	100	137	122	231	191	591	260	292	423	291	250	3095
1959	59	4	10	106	275	241	292	270	439	199	398	554	2847
1960	103	43	191	293	527	242	407	214	232	485	492	647	3876
1961	26	9	23	169	243	425	207	402	218	518	486	151	2877
1962	107	24	28	41	621	159	455	273	356	291	541	522	3419
1963	182	56	14	119	409	189	364	373	217	259	554	104	2839
1964	21	10	8	80	351	427	460	252	341	284	269	65	2569
1965	142	34	5	43	367	179	124	329	297	610	855	191	3176
1966	57	29	48	179	335	165	418	520	290	398	941	358	3737
1967	37	9	23	125	194	492	466	241	201	352	658	252	3051
1968	15	64	83	22	224	296	330	351	275	627	317	65	2669
1969	82	42	28	53	348	234	405	442	357	369	367	475	3202
1970	290	111	64	271	434	262	421	373	218	399	681	429	3952
1971	135	63	87	17	354	320	276	427	322	272	297	19	2588
1972	254	58	21	304	220	266	130	197	314	434	205	98	2501
1973	46	46	5	58	188	224	183	246	234	295	574	198	2297
1974	13	41	36	64	170	249	523	254	450	424	752	140	3114
1975	25	13	81	23	287	338	323	455	340	429	345	635	3294
1976	58	13	3	173	251	320	315	353	290	323	284	109	2492
1977	43	23	5	107	193	307	147	328	259	386	234	56	2088
1978	8	48	74	310	122	361	269	315	312	221	221	46	2306
1979	15	76	10	262	376	366	264	419	249	307	264	262	2870
1980	173	79	10	61	462	188	196	272	208	239	254	272	2413
1981	201	48	99	351	424	231	361	340	173	340	1077	483	4128
1982	203	53	30	244	180	330	472	229	251	404	191	28	2616
1983	36	5	0	152	386	244	264	282	284	264	231	411	2560
1984	61	53	10	51	297	320	102	257	165	274	414	127	2131
1985	173	33	20	18	226	272	330	257	300	259	340	338	2565
1986	30	36	23	150	203	229	193	439	251	498	239	142	2433
1987	30	46	5	254	526	269	465	447	531	574	361	269	3777
1988	30	79	3	36	163	191	345	155	310	356	310	183	2159

GATUN
MONTHLY RAINFALL IN MM

Latitude	09-16-06		north	Longitude		79-55-14		west		Elevation	30.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1989	13	53	30	18	119	160	338	320	112	508	424	127	2223
1990	48	3	48	155	345	229	368	302	561	490	292	330	3172
1991	58	20	112	66	424	229	135	254	432	218	574	46	2568
1992	30	5	23	292	513	170	254	356	389	318	340	234	2924
1993	122	48	79	351	163	239	323	274	419	325	394	262	2997
1994	30	20	43	117	386	495	234	516	234	198	381	124	2779
1995	264	13	46	122	312	246	404	257	170	351	536	389	3109
1996	414	140	61	94	254	290	203	218	119	257	612	198	2860
1997	46	15	0	10	241	117	117	160	462	213	216	20	1618
1998	15	41	46	521	292	224	419	272	84	264	224	363	2764
1999	102	53	150	137	262	241	345	511	188	318	399	693	3399
2000	119	23	15	132	406	579	229	241	142	681	183	719	3470
Mean	87	46	43	131	315	289	315	336	284	394	492	291	3024
Max	414	335	231	521	732	579	596	613	561	1010	1185	804	4170
Min	8	3	0	4	67	75	102	126	84	198	183	19	1618
Std	79	43	43	104	118	95	112	100	97	129	228	194	547
Skew	1.7	3.7	2.0	1.1	0.7	0.7	0.2	0.3	0.5	1.4	1.0	0.7	0.1
CV	2.5	1.1	0.2	0.3	2.3	0.9	1.1	1.8	0.9	1.3	0.9	1.0	1.3

GUACHA
MONTHLY RAINFALL IN MM

Latitude	09-10-37			north	Longitude		79-56-20			west	Elevation	29.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1959													699
1960	76	43	124	225	281	241	159						657
1961	30	5	36	216	91	194	194	337					
1962													
1963				121	334	189	236	356	168	228	228		228
1964													
1965		39			288	84	81	293	249	408	563		
1966	71	30	47										
1967													
1968	4	71	48	14	313	141	86	333	142	435	325	47	1959
1969	53	34	26	67	224	170	354	120	341	330	391	291	2402
1970	249												
1971	102	35	45	9	204	251	287	175	188	180			28
1972	211	25	38	150	119	361	61	112	206	376	124	109	1892
1973	15	28	3	102	201	292	173	257	234	330	445	130	2207
1974	13	18	20	66	127	201	376	155	224	391	505	56	2151
1975	13	23	23	25	251	198	264	378	315	465	358	480	2794
1976	43	18	8	236	201	246	152	185	216	262	175	76	1819
1977	20	13	3	18	229	193	114	396	318	160	112	58	1633
1978	79	18	74	234	150	145	251	254	213	213	361	38	2029
1979	10	48	5	201	272	249	193	185	264	226	307	155	2116
1980	163	64	5	91	211	218	274	231	137	244	310	208	2156
1981	201	43	86	351	312	330	269	264	91	203	726	251	3129
1982	173	30	30	137	264	251	269	203	236	338	119	20	2073
1983	30	13	5	152	279	269	211	284	198	325	315	236	2319
1984	48	51	13	58	267	249	97	343	117	241	406	84	1974
1985	130	25	20	13	241	218	302	218	213	320	231	401	2334
1986	43	23	18	208	127	211	188	211	249	424	127	127	1956
1987	41	51	5	236	330	185	307	272	328	389	422	152	2718
1988	18	36	3	46	142	236	203	231	279	508	419	175	2296
1989	46	135	33	81	71	122	124	249	175	373	335	71	1816
1990	20	3	10	18	353	135	310	241	511	290	239	246	2375
1991	51	20	107	33	371	142	229	137	366	198	419	43	2116
1992	15	5	13	262	302	193	231	234	470	191	284	180	2380
1993	43	48	84	206	140	147	236	193	356	310	353	165	2281
1994	36	15	48	114	358	267	155	259	147	155	455	81	2090
1995	211	5	15	107	343	213	325	152	292	244	363	394	2664
1996	318	124	74	107	213	259	229	168	279	290	411	122	2593
1997	30	10	3	51	201	132	124	150	157	180	208	18	1265
1998	15	15	38	272	284	277	246	229	79	165	104	323	2047
1999	91	51	76	137	208	310	297	632	249	284	417	505	3259
2000	74	13	3	71	300	406	216	244	183	478	274	607	2868

GUACHA
MONTHLY RAINFALL IN MM

Latitude	09-10-37			north	Longitude		79-56-20			west	Elevation	29.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
Mean	77	34	34	127	239	220	217	248	241	299	328	213	2249
Max	318	135	124	351	371	406	376	632	511	508	726	699	3259
Min	4	3	3	9	71	84	61	112	79	155	104	18	1265
Std	78	29	33	90	81	69	80	99	97	100	139	188	422
Skew	1.5	2.1	1.2	0.5	-0.3	0.5	-0.2	1.8	0.8	0.4	0.4	1.2	0.4
CV	1.0	0.9	1.0	0.7	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.9	0.2

HUMEDAD
MONTHLY RAINFALL IN MM

Latitude	09-02-54			north	Longitude		80-02-21			west	Elevation	30.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1925								161	324	375	396	136	
1926	11	32	5	4	150	208	439	352	225	267	389	196	2276
1927	99	47	38	147	374	293	466	346	297	412	496	298	3314
1928													
1929													
1930													
1931													
1932													
1933													
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1952													
1953													
1954													
1955													
1956													
1957													
1958													
1959													
1960													480
1961	20	11	10										
1962													
1963													
1964													
1965													
1966										195	310	649	

HUMEDAD
MONTHLY RAINFALL IN MM

Latitude	09-02-54			north	Longitude		80-02-21			west	Elevation	30.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1967	27	37	16	234	187	494	165	237	248	284	554	134	2618
1968	2	114	48	21	337	277	199	215	202	283	209	82	1990
1969	105	72	10	76	221	159	263	118	247	292	239	313	2117
1970	171	40	76	99	316	293	289	267	249	284	688	493	3264
1971	66	83	85	1	124	155	102	315	193	221	216	8	1569
1972	91	8	58	254	183	193	91	137	325	297	239	157	2035
1973	30	41	5	71	208	292	163	251	295	300	434	124	2215
1974	30	15	41	38	358	170	211	234	208	406	589	104	2405
1975	5	28	18	10	295	399	193	353	173	465	378	472	2789
1976	46	38	3	109	188	119	91	152	356	335	137	122	1697
1977	20	28	3	0	160	132	142	302	279	353	292	76	1788
1978	81	23	117	297	224	315	292	183	363	226	236	33	2390
1979	13	53	8	290	335	203	221	196	284	226	292	142	2263
1980	196	76	3	46	455	282	282	231	168	218	297	191	2443
1981	165	53	43	274	302	389	340	348	147	175	429	290	2957
1982	175	41	33	69	183	213	140	163	239	429	117	18	1819
1983	43	8	48	71	254	279	142	208	279	282	206	254	2075
1984	91	38	25	76	269	165	165	249	333	318	335	58	2123
1985	122	30	13	5	272	269	193	305	229	191	178	229	2035
1986	41	3	20	249	178	216	142	165	226	368	188	61	1857
1987	38	36	3	145	259	173	254	307	361	404	244	188	2410
1988	8	30	0	38	241	290	165	505	333	297	389	99	2395
1989	0	0	18	58	132	81	175	251	198	457	427	178	1976
1990	46	5	41	112	300	216	249	196	386	457	323	272	2601
1991	36	33	132	28	422	277	224	99	292	208	310	53	2113
1992	38	18	10	193	356	310	196	262	226	231	351	175	2365
1993	51	18	135	145	198	297	178	193	353	325	330	168	2390
1994	61	13	69	76	318	226	124	224	279	183	396	64	2032
1995	135	13	23	163	348	297	264	264	185	140	300	366	2497
1996	384	94	91	36	333	224	213	185	320	333	330	295	2837
1997	23	38	8	23	180	104	173	198	221	109	305	15	1397
1998	18	5	46	208	279	300	274	132	175	274	231	343	2286
1999	61	53	132	160	165	211	193	287	419	229	480	610	3000
2000	114	36	10	112	185	452	157	160	130	378	175	460	2370
Mean	72	35	39	109	258	249	210	237	262	299	336	204	2297
Max	384	114	135	297	455	494	466	505	419	465	688	610	3314
Min	0	0	0	0	124	81	91	99	130	109	117	8	1397
Std	75	26	40	90	84	92	84	83	72	90	136	152	437
Skew	2.3	1.1	1.3	0.7	0.4	0.6	1.3	0.9	0.2	0.1	0.8	0.9	0.4
CV	1.0	0.7	1.0	0.8	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.7	0.2

HODGES HILL
MONTHLY RAINFALL IN MM

Latitude	09-02-39		north	Longitude		79-39-05		Elevation		70.0 m			
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1967													
1968													
1969	9	4	7	18	140	135	176	253	291	439	299	84	1854
1970	138	23	57	124	344	184	244	428	226	357	358	280	2763
1971	194	74	29	92	422	137	257	229	361	368	297	3	2463
1972	117	10	10	279	183	279	163	175	447	368	185	94	2311
1973	5	3	3	23	221	272	272	66	206	345	366	91	1872
1974	0	0	0	33	348	340	236	259	335	457	157	69	2235
1975	0	13	10	15	249	284	290	224	254	498	356	145	2337
1976	8	3	0	48	157	193	119	183	203	345	173	38	1471
1977	8	10	5	10	251	198	218	239	137	373	244	81	1775
1978	28	5	15	140	183	239	231	196	236	394	396	86	2149
1979	3	0	3	229	279	251	244	282	127	541	170	79	2207
1980	56	15	0	15	180	333	218	307	221	231	305	86	1969
1981	18	0	41	297	272	422	234	178	246	165	356	145	2372
1982	64	3	0	48	295	117	221	203	328	353	130	3	1763
1983	3	0	5	43	246	241	198	150	315	295	284	191	1971
1984	36	56	5	41	132	259	257	356	318	452	175	10	2096
1985	10	5	13	30	224	442	269	234	305	206	196	84	2017
1986	3	0	89	168	51	338	163	239	279	605	218	15	2167
1987	0	5	10	160	170	340	239	371	409	272	295	150	2421
1988	3	3	5	23	295	368	188	328	269	526	300	152	2459
1989	15	13	5	0	152	241	213	305	132	259	343	109	1788
1990	28	3	8	81	272	122	409	361	264	401	147	157	2253
1991	18	0	25	114	373	295	229	361	457	419	224	86	2601
1992	3	3	0	89	163	518	173	218	249	378	193	76	2062
1993	69	3	13	99	188	472	262	282	376	353	287	127	2530
1994	15	0	64	53	300	249	127	262	231	401	386	13	2101
1995	5	8	10	155	264	381	282	221	142	254	414	25	2162
1996	132	20	28	43	338	168	259	208	193	300	254	107	2050
1997	25	3	0	25	178	127	262	193	244	282	170	3	1511
1998	0	0	3	36	328	290	300	419	211	239	345	307	2477
1999	25	66	13	102	175	368	140	231	404	292	262	249	2327
2000	91	5	3	114	259	284	155	257	287	312	99	165	2032
Mean	35	11	15	86	238	276	226	258	271	358	261	101	2143
Max	194	74	89	297	422	518	409	428	457	605	414	307	2763
Min	0	0	0	0	51	117	119	66	127	165	99	3	1471
Std	49	19	21	77	82	104	58	79	87	99	86	78	302
Skew	1.9	2.5	2.2	1.3	0.1	0.4	0.6	0.2	0.4	0.4	0.0	0.9	-0.3
CV	1.4	1.7	1.4	0.9	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.8	0.1

LAS CASCADAS
MONTHLY RAINFALL DATA IN MM

Latitude	09-04-53			north	Longitude	79-40-48			west	Elevation	47.0 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1966													
1967		10	23	128	210	209	287	292	267	389		83	
1968	1	37					208	273	181	342	266	100	
1969	22	11	9		3	246	201	262	338	231	427		
1970				25	323	157	257		295	432		0	
1971	86	23	18	142	224	351	79	188	330	295	198	66	1999
1972	3	3	3	25	183	279	198	157	267	191	361	94	1763
1973	5	3	41	8	371	241	188	251	241	323	180	91	1943
1974	5	5	18	10	267	198	282	249	213	345	297	183	2073
1975	5	0	8	69	132	239	76	188	310	201	140	36	1402
1976	8	3	0	10	221	178	221	297	142	368	267	124	1839
1977	5	5	56	185	239	305	274	185	224	351	300	99	2228
1978	0	3	0	163	251	310	185	196	107	363	358	51	1986
1979	61	13	5	15	244	264	203	279	244	160	234	168	1890
1980	25	3	69	345	216	335	236	185	163	201	386	145	2309
1981	107	3	0	69	320	152	185	198	249	310	183	13	1788
1982	8	8	10	71	279	259	145	163	404	224	274	150	1994
1983	23	51	3	33	196	241	175	318	325	429	284	10	2088
1984	3	5	15	58	371	297	188	170	406	137	140	130	1920
1985	3	10	91	132	97	323	183	257	224	579	213	38	2149
1986	3	8	0	185	170	297	254	330	348	249	221	99	2164
1987	0	3	5	43	391	371	249	452	358	597	366	163	2997
1988	20	28	8	0	325	467	467	460	226	460	572	226	3259
1989	53	0	30	36	427	163	315	310	310	470	274	165	2553
1990	38	5	51	91	483	391	325	462	483	434	371	43	3178
1991	3	3	3	147	218	544	389	290	254	417	269	64	2598
1992	114	3	38	127	307	599	356	295	599	452	371	112	3373
1993	33	13	51	23	295	246	191	267	251	358	424	58	2210
1994	10	3	30	180	277	323	257	206	198	254	434	132	2304
1995	211	23	28	48	310	229	267	234	292	239	272	51	2202
1996	15	0	0	30	330	188	236	282	147	259	221	5	1715
1997	0	0	0	74	201	259	282	320	287	239	335	208	2205
1998	48	99	38	71	330	318	102	264	442	216	297	381	2606
1999	53	3	10	107	300	290	163	239	328	353	213	193	2250
Mean	31	12	21	83	273	288	233	269	283	335	291	109	2241
Max	211	99	91	345	483	599	467	462	599	597	572	381	3373
Min	0	0	0	0	97	152	76	157	107	137	140	0	1402
Std	46	20	23	75	84	104	83	81	103	114	95	79	474
Skew	2.5	3.3	1.3	1.5	0.3	1.3	0.5	0.9	1.0	0.3	0.8	1.3	1.0
CV	1.5	1.7	1.1	0.9	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.7	0.2

LAS RACIES
MONTHLY RAINFALL IN MM

Latitude		09-05-31		north	Longitude		79-59-16		west	Elevation		33.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1912	35	29	7	77	299	300	300	195	289	427	517	142	2617
1913	88	46	28	64	450	284	212	340	287	301	265	105	2471
1914	40	29	18	80	345	244	61	126	382	430	381	142	2280
1915	62	226	29	235	216	330	346	213	258	290	296	214	2715
1916	52	71	70	125	307	191	337	263	218	447	347	80	2508
1917	15	11	12	106	296	240	294	415	214	255	733	232	2823
1918	101	9	10	121	384	137	121	148	230	399	196	23	1878
1919	63	9	10	161	185	312	144	172	214	403	192	143	2008
1920	15	10	24	29	236	270	256	275	155	611	231	64	2177
1921	39	34	13	55	158	258	330	432	292	312	355	272	2550
1922	122	24	2	42	399	203	92	338	263	407	426	280	2598
1923	99	12	14	41	312	339	114						
1924													
1925													
1926													
1927													
1928													
1929													
1930													
1931													
1932													
1933													
1934													
1935													
1936													
1937													
1938													
1939													
1940													
1941	102					266	243	293	204	337	224	104	
1942	77	48	55	89	352	181	153	300	383	439	165	303	2546
1943	44	47	51	234	438	393	207	188	305	281	321	298	2808
1944	32	41	2	142	367	269	221	297	222	418	253	343	2606
1945	49	6	6	34	293	229	199	202	226	172	447	300	2164
1946	43	3	24	57	140	137	251	204	259	214	273	278	1884
1947	6	17	10	11	156	286	251	154	285	398	144	140	1858
1948	41	8	15	6	252	197	247	214	221	204	354	105	1864
1949	8	7	34	12	181	251	264	282	133	414	539	247	2373
1950	5	27	20	75	234	215	308	256	292	290	478	345	2545
1951	15	83	8	144	178	87	129	103	286	419	233	157	1843
1952	75	33	3	58	154	155	151	178	125	546	265	265	2008
1953	125	12	21	29	242	151	285	177	293	351	378	142	2203

LAS RACIES
MONTHLY RAINFALL IN MM

Latitude		09-05-31		north	Longitude		79-59-16		west	Elevation		33.5 m		
Year		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1954	40	21	19	62	255	214	169	164	206	274	305	166	1894	
1955	233	18	30	21	276	217	208	353	360	340	552	265	2874	
1956	140	53	94	108	310	166	343	141	167	356	362	102	2344	
1957	12	5	2	0	250	201	260	252	162	278	230	241	1893	
1958	81	92	66	142	150	123	324	265	214	338	125	112	2032	
1959	27	2	5	91	208	430	211	213	277	314	271	506	2557	
1960	11	15	99	237	279	298	86	194	177	315	298	538	2546	
1961	17	4	2	86	154	230	194	333	205	308	283	197	2014	
1962				36	199	203	197	156	251	163	218	148		
1963	118	13	10						263	473				
1964											244	18		
1965	124	6	0	0	239	161	181			295	528	97		
1966	24	7	15	83	252	270	250	347	216	249	664	433	2811	
1967	30	1	20	138	130	253	253	193	223	243	375	73	1932	
1968	0	59	35	13	298	161	149	207	145	279	199	30	1576	
1969	77	33	12	106	330	174	256	125	319	269	362	244	2307	
1970	164	11	82	68	277					193	517			
1971	79	49	66	1	304	203	241	224	310	178	284	10	1949	
1972	114	25	56	284	163	241	53	142	279	264	165	147	1935	
1973	28	10	8	64	127	231	185	264	272	368	521	89	2167	
1974	0	5	23	36	185	112	292	323	272	315	467	97	2126	
1975	3	8	28	10	185	264	140	434	163	399	343	356	2332	
1976	25	5	3	117	185	178	94	170	445	241	193	89	1745	
1977	23	8	0	0	185	188	155	325	218	295	287	112	1796	
1978	66	15	91	310	150	257	196	211	231	188	173	51	1938	
1979	8	23	3	140	208	221	157	310	246	307	307	127	2057	
1980	112	15	0	56	279	229	272	284	163	203	254	127	1994	
1981	114	15	28	358	272	279	312	173	79	183	488	290	2591	
1982	135	13	23	135	229	165	109	99	185	386	140	41	1659	
1983	33	3	15	58	351	305	208	201	239	257	188	218	2075	
1984	74	46	8	36	300	160	102	356	130	249	320	53	1831	
1985	97	41	5	5	239	295	160	206	226	185	229	328	2014	
1986	28	10	10	284	180	175	178	157	274	335	150	74	1857	
1987	33	51	0	175	406	130	218	267	315	378	183	122	2278	
1988	8	25	3	64	203	371	165	318	411	211	320	114	2212	
1989	8	0	3	15	109	117	119	213	302	378	356	112	1732	
1990	13	3	36	71	279	145	249	152	279	406	213	257	2103	
1991	36	18	122	48	478	170	226	117	330	333	345	71	2294	
1992	10	23	5	163	160	254	244	236	264	203	297	157	2017	
1993	66	5	79	183	206	277	130	201	361	363	264	145	2278	
1994	61	15	48	76	307	196	25	188	216	152	340	56	1681	
1995	152	3	28	89	196	305	348	135	173	231	300	188	2146	

LAS RACIES
MONTHLY RAINFALL IN MM

Latitude	09-05-31		north	Longitude		79-59-16		west		Elevation	33.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996	371	142	69	89	452	211	175	196	282	183	246	119	2535
1997	20	33	0	33	142	127	157	191	137	122	86	13	1062
1998	8	23	23	218	353	269	264	290	160	478	140	399	2624
1999	79	41	94	71	168	345	185	401	386	257	411	406	2845
2000	99	20	3	61	216	495	198	206	130	376	203	538	2545
Mean	62	27	27	94	252	231	205	234	246	313	311	186	2193
Max	371	226	122	358	478	495	348	434	445	611	733	538	2874
Min	0	0	0	0	109	87	25	99	79	122	86	10	1062
Std	61	35	29	81	88	78	77	82	75	99	131	128	367
Skew	2.3	3.6	1.4	1.3	0.6	0.8	-0.1	0.6	0.3	0.4	0.9	1.0	-0.1
CV	1.0	1.3	1.1	0.9	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.7	0.2

LOS CANONES
MONTHLY RAINFALL IN MM

Latitude	08-56-56			north	Longitude	80-03-45			west	Elevation	103.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1947									520	473	290	160	
1948	64	9	9	18	369	148	424	467	283	260	533	132	2717
1949	13	9	12	116	356	390	189	457	525	335	477	313	3193
1950	25	55	15	114	310	387	520	245	432	318	722	411	3555
1951	81	138	20	156	241	184	243	148	533	347	289	201	2580
1952	87	37	11	96	346	199	162	205	336	374	225	354	2431
1953	303	9	38	106	408	175	179	277	481	384	597	191	3149
1954	56	44	21	162	547	605	479	398	646	348	489	167	3961
1955	316	51	61	42	389	445	297	410	424	352	508	274	3569
1956	316	64	103	134	431	258	456	219	316	456	291	113	3160
1957	42	10	16	7	323	219	306	338	249	411	212	262	2397
1958	152	113	130	64	346	367	312	233	283	357	147	182	2685
1959	26	2	8	74	184	362	246						
1960													
1961													
1962													
1963													
1964													
1965													
1966													
1967													
1968													
1969													
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977													
1978			84	300	300	145	368	391	345	282	277	36	
1979	20	41	5	274	231	239	325	269	251	165	206	193	2220
1980	165	64	10	51	318	351	315	310	119	358	277	224	2560
1981	160	69	163	312	323	358	302	251	198	533	361	249	3279
1982	160	30	20	84	191	259	145	196	206	409	147	36	1882
1983	20	8	5	46	231	180	249	224	351	231	338	262	2144
1984	81	137	20	56	231	279	145	422	401	452	221	71	2517
1985	127	20	25	15	173	267	203	259	300	170	193	124	1877
1986	28	8	10	196	231	86	155	36	277	213	173	23	1435
1987	13	13	5	102	257	81	127	188	671	668	343	345	2812
1988	10	30	3	43	310	277	226	386	368	310	264	178	2405

LOS CANONES
MONTHLY RAINFALL IN MM

Latitude		08-56-56			north		Longitude		80-03-45			west		Elevation		103.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu				
1989	15	66	51	36	175	203	310	356	330	376	259	208	2385				
1990	130	8	58	79	318	198	191	208	422	371	264	229	2474				
1991	20	30	86	56	343	168	208	122	297	224	282	147	1984				
1992	48	23	10	155	409	244	163	305	231	244	358	140	2329				
1993	76	20	89	201	384	343	114	130	401	378	378	155	2670				
1994	15	3	5	0	150	335	69	206	180	376	312	41	1692				
1995	109	15	23	137	315	394	221	373	290	269	290	267	2703				
1996	351	104	107	53	348	269	206	226	389	493	340	163	3048				
1997	36	38	0	25	203	295	173	140	251	152	130	18	1461				
1998	15	51	58	193	208	343	290	150	152	213	305	361	2339				
1999	114	58	89	213	211	246	178	505	371	328	462	531	3307				
2000	236	36	13	109	279	373	218	307	231	338	206	287	2634				
Mean	101	42	40	109	297	276	249	275	345	342	319	201	2592				
Max	351	138	163	312	547	605	520	505	671	668	722	531	3961				
Min	10	2	0	0	150	81	69	36	119	152	130	18	1435				
Std	100	37	42	82	88	108	106	113	130	110	134	116	599				
skew	1.3	1.3	1.3	0.9	0.5	0.6	0.9	0.2	0.7	0.6	1.1	0.6	0.1				
CV	1.0	0.9	1.1	0.8	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.6	0.2				

MONTE LIRIO
MONTHLY RAINFALL IN MM

Latitude	09-14-28			north	Longitude	79-51-12			west	Elevation	33.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1907													117
1908	71	35	69	92	573	368	330	403	200	344	649	161	3295
1909	202	145	123	182	236	314	397	213	251	340	882	612	3896
1910	109	227	243	178	301	414	505	347	564	418	650	609	4565
1911	23	61	36	134	500	290	269	243	284	469	509	58	2877
1912	54	84	6	33	212	343	295	207	239	538	415	133	2559
1913	91	64	15	90	414	272	221	265	359	378	382	183	2733
1914	21	39	30	113	290	370	90	428	391	462	364	128	2724
1915	65	167	19	310	284	264	400	317	378	452	616	258	3528
1916	19	66	68	120	214	300	245	267	251	439	468	165	2621
1917	17	14	19	97	285	368	354	326	358	255	687	253	3034
1918	100	19	34	107	369	240	199	300	307	599	390	26	2690
1919	102	29	15	296	132	207	238	258	393	402	231	196	2501
1920	9	18	20	2	161	200	346	362	232	465	264	84	2163
1921	84	74	7	168	248	387	394	391	399	236	565	225	3179
1922	170	34	5	36	312	253	144	177	350	421	274	146	2322
1923	22	12	20	39	232	262	173	357	246	1072	553	55	3045
1924	18	118	34	317	284	346	371	225	433	376	578	190	3290
1925	50	45	16	102	103	258	361	184	341	595	423	106	2585
1926	9	52	27	14	265	679	463	506	210	442	681	297	3646
1927	103	32	97	234	446	398	445	419	316	308	645	297	3741
1928	55	44	83	22	226	353	204	560	350	341	478	383	3100
1929	19	15	106	66	230	370	216	520	133	393	399	152	2621
1930	59	15	12	108	391	165	196	197	227	142	496	207	2216
1931	37	35	196	100	368	352	411	257	215	294	696	34	2996
1932	38	23	58	64	320	306	315	250	148	327	1008	344	3200
1933	31	6	27	1	243	325	190	215	264	211	888	440	2843
1934	51	24	67	197	390	155	246	414	483	421	530	434	3414
1935	72	84	15	109	266	238	560	340	326	257	1054	529	3850
1936	34	4	26	45	246	160	226	467	342	508	356	117	2530
1937	79	6	14	48	339	261	271	318	325	559	540	641	3401
1938	37	21	30	67	377	439	391	446	263	333	283	555	3243
1939	9	3	10	30	119	313	273	246	415	430	829	286	2963
1940	122	56	37	15	184	239	250	458	279	373	456	85	2553
1941	66	74	56	87	189	339	319	386	373	604	422	76	2989
1942	66	29	121	160	306	342	276	213	356	586	249	660	3364
1943	28	61	47	17	522	392	165	271	340	318	485	311	2959
1944	51	38	8	184	371	278	243	541	150	590	281	398	3132
1945	56	8	17	30	298	185	163	307	300	300	588	711	2963
1946	17	28	49	22	336	96	327	235	296	222	435	362	2424
1947	0	58	38	74	179	334	329	299	261	280	198	175	2225
1948	62	6	7	11	186	119	248	283	237	247	341	86	1834

MONTE LIRIO
MONTHLY RAINFALL IN MM

Latitude	09-14-28			north	Longitude		79-51-12			west	Elevation	33.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1949	5	1	0	7	250	472	269	257	165	480	835	302	3043
1950	9	57	29	71	138	362	379	299	172	343	682	528	3071
1951	49	117	18	242	318	225	221	190	234	502	443	305	2863
1952	67	15	8	137	354	229	285	288	254	394	241	558	2831
1953	148	12	48	81	210	110	458	362	111	513	425	164	2641
1954	25	33	19	53	220	289	329	254	236	257	489	195	2397
1955	222	19	9	21	308	296	212	307	235	313	541	346	2830
1956	168	38	82	71	391	126	448	353	314	519	428	75	3012
1957	11	15	5	4	160	315	166	551	337	243	438	172	2415
1958	106	187	59	186	215	245	285	219	243	399	215	246	2605
1959	29	5	5	122	201	229	286	340	369	179	231	762	2757
1960	62	37		313	448					655	469	564	
1961	21	1	4	104	98	453	184	378	251	437	310	133	2374
1962	57	23	12	92	470	243	379	287	310	272	392	337	2872
1963	158	55	61	127	233	262	360	411	188	303	289	64	2512
1964	0	0	0	61					290				
1965				51	226	201	186	260	284	499	769	182	
1966	72		28	135	310	161	276	379	255	261	661	455	
1967			20	71	192	347	367	213	163	440	560	130	
1968	1	37	82	8	267	236	154	434	326	518	289	74	2425
1969	46	5	19	43	356	146	432	286	484	318	312	446	2893
1970	276	53	40		374	178	336	369	259	312	531	417	
1971	126	13			378	279	249	434	188		305	20	
1972	300	38	5	147	155	170	122	206	264	376	216	168	2167
1973	102	13	0	20	109	244	345	312	358	340	594	170	2609
1974	0	18	20	30	142	279	378	229	325	536	394	117	2469
1975	3	25	33	8	221	254	239	439	406	460	302	495	2885
1976	30	5	0	64	206	267	142	236	251	310	244	10	1765
1977	23	0	10	33	170	206	145	511	224	493	511	107	2431
1978	36	25	102	249	165	396	335	340	196	315	310	38	2507
1979	3	18	5	173	320	269	244	307	203	262	330	152	2286
1980	122	56	5	30	356	150	216	229	135	272	249	196	2014
1981	282	23	114	259	470	323	234	333	180	249	968	378	3813
1982	193	48	20	185	241	152	211	117	302	417	183	84	2154
1983	15	0	0	127	277	231	170	198	269	315	292	335	2230
1984	56	66	5	23	295	229	160	378	201	307	462	38	2220
1985	69	56	36	20	338	198	279	300	239	363	221	414	2532
1986	61	15	46	117	112	292	188	368	262	457	224	89	2230
1987	15	38	3	348	452	191	345	376	404	531	274	246	3223
1988	3	33	5	33	142	178	193	282	368	417	358	160	2172
1989	10	25	8	18	239	168	330	300	135	516	467	69	2283
1990	23	8	53	157	284	241	300	272	566	599	249	307	3061

MONTE LIRIO
MONTHLY RAINFALL IN MM

Latitude	09-14-28			north	Longitude		79-51-12			west	Elevation	33.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1991	20	30	130	41	272	226	391	201	450	165	599	64	2588
1992	15	8	10	208	437	269	310	292	376	323	333	170	2751
1993	117	30	127	295	229	239	249	358	554	330	406	257	3190
1994	76	10	99	109	328	500	267	378	226	239	401	30	2664
1995	277	25	15	94	254	348	338	196	178	196	526	318	2764
1996	445	114	89	76	312	396	208	272	239	272	676	127	3226
1997	38	23	0	5	244	229	224	282	231	254	191	18	1737
1998	15	43	30	320	307	267	348	338	221	351	277	356	2873
1999	99	64	152	180	300	351	287	531	208	259	579	699	3708
2000	86	20	8	132	236	320	259	257	122	544	216	564	2764
Mean	72	40	40	106	279	278	283	320	286	389	458	257	2798
Max	445	227	243	348	573	679	560	560	566	1072	1054	762	4565
Min	0	0	0	1	98	96	90	117	111	142	183	10	1737
Std	78	41	46	88	101	96	93	97	98	138	198	189	513
Skew	2.2	2.3	2.0	1.0	0.5	0.9	0.4	0.6	0.7	1.4	0.9	0.8	0.6
CV	1.1	1.0	1.1	0.8	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.7	0.2

PELUCA
MONTHLY RAINFALL IN MM

Latitude	09-22-48			north	Longitude		79-33-40			west	Elevation	106.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1934	70	12	51	89	362	277	308	237	341	380	435	208	2769
1935	195	66	56	160	470	348	490	347	221	323	1380	506	4563
1936	34	30	22	89	598	209	342	279	298	289	420	58	2669
1937	212	35	26	82	418	390	362	390	363	309	519	563	3668
1938	59	62	26	234	658	600	245	326	331	260	379	537	3717
1939	24	7	34	56	166	304	141	449	263	189	594	227	2454
1940	131	72	38	36	325	172	230	363	207	330	358	52	2315
1941	46	77	58	44	459	303	255	359	213	647	439	136	3036
1942	37	26	65	183	275	434	239	457	207	607	205	300	3035
1943	100	132	32	130	234	305	183	341	511	308	317	493	3086
1944	81	79	14	323	518	258	438	424	292	532	333	741	4033
1945	64	43	32	46	368	437	386	374	245	236	246	327	2804
1946	11	20	27	63	287	249	522	191	420	281	129	419	2619
1947	11	34	15	190	126	396	199	346	260	359	207	253	2397
1948	45	20	16	58	323	405	322	387	263	324	441	107	2711
1949	30	36	21	130	274	511	412	397	432	260	353	230	3084
1950	43	94	23	249	324	274	422	235	331	176	333	419	2923
1951	55	301	44	216	238	375	273	387	254	367	308	183	3002
1952	104	26	11	152	324	261	448	373	377	663	104	443	3286
1953	246	47	60	68	376	250	221	283	173	413	335	310	2783
1954	47	57	39	130	268	431	461	403	238	267	474	360	3174
1955	337	26	64	25	186	215	443	421	243	137	791	297	3186
1956	276	75	95	122	444	309	427	233	286	286	483	162	3198
1957	33	48	4	9	241	222	92	245	207	309	636	207	2253
1958	107	86	119	37	318	215	513	255	403	246	319	260	2878
1959	38	19	11	98	199	346	295	263	408	333	422	824	3256
1960	211	31	73	325	405	233	323	401	267	228	316	507	3321
1961	39	12	21	135	144	423	274	330	253	407	349	106	2494
1962	78	24											
1963		90	23	341	492			350	302	290	379	91	
1964			33	157							366		
1965							159	228	302	351	447	295	
1966	160	21	19	407	342	238	288	334	278	322	713	348	3470
1967	102	40	45	287	257	509	398	309	428	348	432	304	3457
1968	17	97	78	59	352	409	251	240	252	407	345	151	2658
1969	82	24	49	107	434	77	294	338	376	167	218	387	2556
1970	434	66	90	331	481	167	207	338	257	225	491	503	3589
1971	82	36	124	15	170	310	376	386		323	363	53	
1972	478	58	33	244	307	318	287	297	312	409	216	170	3129
1973	58	58	3	15	376	358	460	371	218	279	574	345	3117
1974	53	25	23	64	211	241	323	272	257	269	328	86	2151
1975	41	5	30	43	391	439	363	325	236	549	323	389	3134

PELUCA
MONTHLY RAINFALL IN MM

Latitude	09-22-48			north	Longitude	79-33-40			west	Elevation	106.5 m			
	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
	1976	79	43	58	226	277	297	109	102	363	208	221	36	2019
	1977	61	13	15	38	188	208	178	277	259	330	328	130	2024
	1978	38	66	69	345	267	300	292	376	249	239	381	97	2718
	1979	13	28	43	318	236	340	267	264	122	340	414	325	2710
	1980	147	107	13	84	378	320	157	312	284	434	328	165	2731
	1981	140	71	97	759	351	422	424	312	188	312	358	419	3853
	1982	94	38	15	127	145	264	343	282	224	363	114	71	2080
	1983	41	18	33	152	424	290	147	236	368	455	244	528	2936
	1984	61	53	18	36	290	439	343	399	249	295	279	168	2629
	1985	51	38	61	38	363	432	221	183	368	307	244	272	2578
	1986	71	10	23	376	269	269	97	208	287	307	76	48	2042
	1987	43	43	5	508	409	345	523	318	348	427	544	122	3635
	1988	23	104	38	33	254	206	399	292	300	528	236	185	2598
	1989	53	122	23	13	86	241	384	429	183	411	386	211	2543
	1990	132	25	81	66	315	127	236	330	267	462	277	244	2563
	1991	51	48	74	89	384	224	257	277	315	338	528	97	2680
	1992	46	15	15	99	559	328	366	417	363	244	206	155	2812
	1993	142	8	206	305	239	531	251	191	455	391	376	145	3239
	1994	33	46	94	51	381	541	290	429	241	315	538	104	3063
	1995	157	8	33	71	394	424	427	211	262	208	406	378	2979
	1996	366	107	86	218	376	353	224	272	218	287	640	140	3287
	1997	41	23	20	97	361	221	152	145	246	363	216	10	1895
	1998	25	15	20	175	320	338	315	462	455	226	259	378	2990
	1999	86	160	112	231	455	297	429	376	307	361	472	986	4272
	2000	168	64	41	79	325	528	137	302	173	404	206	653	3078 -
Mean		101	52	45	155	331	325	307	318	291	338	380	283	2934
Max		478	301	206	759	658	600	523	462	511	663	1380	986	4563
Min		11	5	3	9	86	77	92	102	122	137	76	10	1895
Std		99	46	36	138	114	108	112	80	79	108	189	199	542
Skew		2.1	2.8	1.9	1.8	0.3	0.4	0.0	-0.4	0.6	1.0	2.4	1.2	0.5
CV		1.0	0.9	0.8	0.9	0.3	0.3	0.4	0.2	0.3	0.3	0.5	0.7	0.2

PEDRO MIGUEL
MONTHLY RAINFALL IN MM

Latitude	09-01-22		north	Longitude	79-37-02		west	Elevation	30.5 m				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1908	0	0	3	30	374	196	242	236	192	214	220	261	1967
1909	78	83	15	59	216	360	233	256	260	444	518	287	2808
1910	46	13	37	131	336	366	227	256	195	341	255	244	2448
1911	1	36	1	133	243	140	162	138	211	328	190	46	1629
1912	0	6	1	107	176	246	293	242	273	266	214	99	1923
1913	28	2	0	26	342	229	173	139	211	307	258	54	1769
1914	32	2	1	76	334	288	182	193	202	171	276	159	1917
1915	26	43	6	61	260	195	218	264	172	416	201	92	1955
1916	43	22	10	249	333	163	233	248	265	399	340	123	2430
1917	8	0	23	32	187	288	375	242	299	153	492	178	2277
1918	78	1	1	280	238	166	141	112	185	268	182	28	1679
1919	12	0	0	167	187	101	185	193	238	286	153	82	1605
1920	1	2	1	129	189	255	283	193	347	260	365	37	2062
1921	1	39	4	30	221	249	178	239	184	281	223	87	1737
1922	68	13	87	30	333	262	180	193	143	245	371	205	2131
1923	16	0	0	1	233	228	147	203	123	465	205	89	1709
1924	0	11	28	38	304	205	215	340	307	305	387	233	2374
1925	106	1	3	89	177	327	258	187	224	312	213	77	1972
1926	0	4	0	0	126	294	278	287	331	269	215	322	2126
1927	8	49	1	191	430	365	256	98	197	178	176	52	1999
1928	4	0	11	202	183	193	282	181	268	242	426	147	2138
1929	1	0	1	25	98	247	104	311	251	236	380	173	1827
1930	8	14	0	144	250	131	236	266	287	328	155	57	1876
1931	1	0	14	15	245	250	246	157	295	283	489	80	2077
1932	24	0	12	171	127	294	205	230	193	421	353	115	2145
1933	99	0	2	16	171	280	199	205	178	173	277	144	1742
1934	95	0	13	52	263	151	186	187	332	354	436	119	2189
1935	7	53	0	24	238	197	436	270	165	273	609	88	2359
1936	1	0	23	48	224	351	284	198	165	328	184	28	1832
1937	66	1	1	88	291	137	208	277	269	320	226	538	2420
1938	36	1	44	37	527	374	285	350	194	201	504	237	2790
1939	1	0	1	58	92	246	210	220	172	369	226	127	1721
1940	16	4	9	20	198	142	159	102	215	340	251	25	1481
1941	49	53	2	70	240	244	319	213	244	242	104	126	1907
1942	6	14	52	45	405	200	238	171	208	372	294	488	2494
1943	51	10	56	153	331	195	214	216	255	155	196	331	2162
1944	42	1	0	79	172	294	226	551	187	242	181	97	2070
1945	2	0	1	101	68	168	263	290	226	386	296	188	1989
1946	41	0	13	4	262	143	251	148	119	229	176	219	1605
1947	0	2	0	73	120	193	228	306	216	404	351	166	2060
1948	18	0	0	16	283	186	277	131	225	205	367	42	1750
1949	2	0	0	62	322	342	192	201	214	345	181	151	2011

PEDRO MIGUEL
MONTHLY RAINFALL IN MM

Latitude	09-01-22			north	Longitude		79-37-02			west	Elevation	30.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1950	6	2	29	64	309	311	398	173	155	229	312	97	2085
1951	19	20	38	94	299	133	316	142	126	233	200	167	1789
1952	8	0	0	59	263	241	146	131	219	489	157	161	1875
1953	108	4	1	3	217	211	173	297	84	386	257	144	1885
1954	19	22	6	195	257	460	298	453	297	238	268	54	2567
1955	130	21	9	7	183	272	224	287	224	263	383	254	2256
1956	60	10	6	6	239	90	284	272	174	258	302	61	1763
1957	0	1	1	0	268	200	243	238	319	447	189	29	1936
1958	39	1	18	23	282	175	96	208	271	523	224	57	1915
1959	17	0	0	21	149	198	226	300	110	348	252	140	1760
1960	91	4	19	151	325	246	187	262	269	292	337	321	2504
1961	2	1	0	107	125	365	241	148	250	266	295	278	2077
1962	5	0	4	118	191	211	168	284	257	292	292	101	1923
1963	57	102	0	170	100	198	226	262	339	312	454	107	2327
1964	0	0	6	290	234	255	283	250	271	229	227	66	2110
1965	9	0	0	0	538	100	204	228	193	262	480	86	2100
1966	73	0	6	91	382	376	305	226	267	323	383	152	2584
1967	3	12	0	153	136	284	272	206	336	345	154	121	2023
1968	0	65	7	26	375	242	293	217	211	314	242	24	2015
1969	19	11	6	102	156	224	136	339	329	355	277	127	2079
1970	146	1	31	146	381	194	196	457	181	264	249	241	2487
1971	142	18	5	99	284	130	203	282	206	315	229	23	1935
1972	142	0	33	216	175	300	112	216	368	224	109	53	1948
1973	0	0	5	20	183	231	206	188	130	330	328	157	1778
1974	5	0	5	23	315	315	246	185	330	323	170	64	1981
1975	0	0	0	25	318	201	282	236	191	445	244	130	2070
1976	0	0	0	122	201	185	150	147	191	338	259	56	1648
1977	3	0	0	18	356	257	277	188	251	378	160	89	1976
1978	13	0	10	137	173	216	198	226	262	264	424	117	2040
1979	0	3	0	284	302	201	196	236	135	470	122	99	2047
1980	28	5	0	13	231	325	201	277	282	251	272	97	1981
1981	5	0	61	348	196	368	292	127	241	221	310	117	2286
1982	71	3	0	102	140	74	239	208	343	348	104	8	1638
1983	0	0	0	74	137	142	249	145	279	216	157	119	1519
1984	61	30	0	36	284	287	269	297	211	488	142	20	2126
1985	5	0	38	13	216	472	201	168	396	206	259	157	2131
1986	3	3	46	135	137	323	198	160	315	569	198	20	2106
1987	3	3	10	122	259	330	287	191	295	305	277	61	2141
1988	0	3	8	58	338	262	295	315	170	320	312	127	2207
1989	56	0	15	0	127	282	262	295	175	198	363	142	1915
1990	23	0	0	107	213	178	335	295	193	328	137	114	1923
1991	5	0	5	229	351	267	274	277	325	229	318	33	2311

PEDRO MIGUEL
MONTHLY RAINFALL IN MM

Latitude	09-01-22			north	Longitude		79-37-02			west	Elevation		30.5 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
1992	0	3	3	46	221	345	267	251	310	353	191	56	2045	
1993	94	0	18	84	218	460	292	201	279	218	239	94	2197	
1994	10	0	142	46	348	170	142	234	236	279	356	5	1969	
1995	5	3	20	150	216	330	267	178	150	257	348	48	1971	
1996	145	56	74	89	381	208	119	343	178	333	348	94	2367	
1997	38	13	0	18	155	122	279	150	185	348	333	28	1669	
1998	3	0	0	33	315	244	300	338	216	279	274	188	2189	
1999	81	81	28	64	221	361	127	221	338	119	208	244	2093	
2000	46	8	0	145	201	302	236	272	236	348	168	178	2139	
Mean	31	11	13	86	247	245	232	233	234	305	273	129	2038	
Max	146	102	142	348	538	472	436	551	396	569	609	538	2808	
Min	0	0	0	0	68	74	96	98	84	119	104	5	1481	
Std	40	20	22	76	91	84	63	76	66	86	104	96	267	
Skew	1.4	2.6	3.2	1.2	0.6	0.4	0.3	1.2	0.2	0.6	0.8	1.7	0.5	
CV	1.3	1.9	1.7	0.9	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.1	

RIO PIEDRAS
MONTHLY RAINFALL IN MM

Latitude	09-16-55			north	Longitude	79-23-53			west	Elevation	149.5 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1985					30	168	231	165	320	175	107	284	
1986	28	0	41	191	290	234	130	112	284	528	284	74	2195
1987	33	41	13	310	462	201	330	318	340	373	340	99	2860
1988	13	102	23	48	478	404	406	394	406	447	330	109	3160
1989	56	114	30	51	102	185	389	264	206	292	353	193	2235
1990	0	0	0	0	307	69	274	259	371	470	226	236	2212
1991	13	38	81	91	257	216	335	178	353	254	277	28	2121
1992	13	5	10	58	366	345	201	300	234	399	264	109	2304
1993	61	3	147	188	368	577	193	188	399	310	163	74	2670
1994	28	28	41	30	401	251	213	239	165	340	483	66	2286
1995	23	0	8	28	244	470	381	467	244	206	259	168	2497
1996	226	84	74	213	455	290	287	396	251	351	414	297	3338
1997	10	33	10	104	216	231	58	112	264	198	312	28	1577
1998	20	15	33	84	472	145	429	290	394	264	419	335	2901
1999	79	155	48	175	315	650	302	348	371	254	300	716	3713
2000	119	28	33	142	274	455	244	460	452	462	287	719	3675
Mean	48	43	39	114	315	306	275	281	316	333	301	221	2650
Max	226	155	147	310	478	650	429	467	452	528	483	719	3713
Min	0	0	0	0	30	69	58	112	165	175	107	28	1577
Std	59	48	38	86	130	164	103	113	83	107	94	216	615
Skew	2.3	1.2	1.8	0.8	-0.7	0.8	-0.4	0.1	-0.2	0.3	-0.1	1.6	0.4
CV	1.2	1.1	1.0	0.8	0.4	0.5	0.4	0.4	0.3	0.3	0.3	1.0	0.2

SAN MIGUEL
MONTHLY RAINFALL IN MM

Latitude	09-25-12		north	Longitude		79-30-15		west	Elevation	520.0 m			
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1940													
1941													
1942	67	66	220	187	255	555	251	324	306	448	192	277	3149
1943	71	68	43	184	382	296	167	307	352	197	234	541	2843
1944	69	46	21	152	216	287	224	342	292	550	294	437	2929
1945	50	21	18	64	295	384	442	434	256	237	247	284	2732
1946	13	17	40	46	399	250	468	221	268	202	153	342	2419
1947	13	47	20	141	136	371	186	399	221	0	0	197	1731
1948	40	19	27	41	154	279	310	248	232	221	364	56	1991
1949	6	16	11	107	262	507	388	357	336	380	397	144	2912
1950	17	59	7	249	339	281	402	532	214	281	320	395	3095
1951	32	135	25	247	287	255	188	441	311	390	229	163	2703
1952	37	5	1	196	458	242	537	546	519	560	233	533	3866
1953	435	113	131	143	458	183	406	387	181	325	382	403	3545
1954	105	133	89	185	399	418	424	453	263	267	668	566	3970
1955	546	67	127	70	309	223	401	511	237	181	927	399	4000
1956	482	117	277	216	587	320	463	427	267	292	529	393	4370
1957	81	78	12	32	382	203	169	301	201	442	773	345	3020
1958	337	150	149	92	315	242	466	239	418	309	396	281	3391
1959	67	36	28	230	288	487	364	277	664	417	673	712	4242
1960		71	141	556	450	331	302	300			411	710	
1961	89	23	42	239	300	488							
1962													
1963		153	45	363	586	401	492	465	343	229	403		
1964		26	47	196								80	
1965	198	1	1	1	511	501	223	263	399	489	620	429	3634
1966	232	44	65	467	390	345	233	291	378	349	860	459	4113
1967	139	45	116	441				318	295	255	541	407	
1968	27	133	189	136	457	389	418	327	244	436	252	249	3258
1969	150	67	66	113	614	149	426	328	342	181	356	720	3513
1970	169	129	419										
1971	174	63	237	8	388	549	475	302	254	516	427	124	3517
1972	795	84	38	353	434	452	297	302	340	361	305	302	4064
1973	102	69	28	71	445	282	376	424	284	229	648	396	3353
1974	89	46	66	84	264	262	363	246	394	305	561	140	2819
1975	84	43	76	86	577	635	549	551	279	478	437	564	4359
1976	127	99	119	264	249	234	142	279	493	389	340	69	2804
1977	221	38	64	122	257	284	290	500	340	729	424	305	3574
1978	91	165	107	417	493	206	508	404	391	173	434	112	3500
1979	25	99	104	368	302	376	340	218	259	188	483	511	3274
1980	251	178	48	117	312	411	180	305	236	343	348	295	3025
1981	371	155	89	1110	386	274	533	208	282	384	434	589	4816

SAN MIGUEL
MONTHLY RAINFALL IN MM

Latitude	09-25-12			north	Longitude		79-30-15			west	Elevation	520.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1982	175	64	46	203	180	290	475	340	277	411	173	160	2794
1983	86	33	56	208	432	318	257	274	386	376	282	955	3663
1984	117	112	28	48	290	343	447	564	249	358	394	216	3165
1985	114	81	132	122	401	480	257	198	368	401	259	396	3211
1986	168	28	94	394	498	528	193	427	500	300	424	114	3668
1987	97	142	20	650	803	460	434	404	516	429	965	427	5347
1988	51	287	127	99	429	297	800	612	173	635	254	94	3858
1989	135	221	0	0	320	419	546	343	325	503	478	297	3586
1990	178	30	152	142	424	274	269	394	315	632	274	193	3279
1991	66	112	84	163	500	274	221	274	582	315	767	168	3526
1992	97	69	71	437	869	406	353	622	333	272	422	320	4270
1993	193	48	340	495	292	536	284	226	462	648	396	363	4285
1994	84	89	218	84	602	660	391	579	300	330	808	226	4371
1995	292	48	157	259	384	645	638	267	401	315	511	861	4778
1996	792	348	295	264	660	437	267	340	284	282	846	620	5436
1997	97	165	46	97	518	272	246	236	211	246	168	76	2377
1998	91	76	74	318	351	470	386	541	333	269	323	582	3813
1999	180	213	267	450	417	414	564	356	267	361	452	1181	5121
2000	239	107	91	188	445	508	318	414	272	505	325	790	4201
Mean	164	90	92	224	402	373	365	368	325	363	434	377	3563
Max	795	348	340	1110	869	660	800	622	664	729	965	1181	5436
Min	6	1	0	0	136	149	142	198	173	0	0	56	1731
Std	171	69	80	191	144	124	135	112	102	143	207	241	790
Skew	2.3	1.5	1.3	2.1	0.9	0.4	0.6	0.6	1.2	0.4	0.8	1.1	0.2
CV	1.0	0.8	0.9	0.9	0.4	0.3	0.4	0.3	0.3	0.4	0.5	0.6	0.2

SALAMANCA
MONTHLY RAINFALL IN MM

Latitude	Year	Longitude						Elevation				m		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
	1912				27	340	304	297	308	197	380	305	75	
	1913	57	21	3	18	385	306	132	196	216	228	439	43	2044
	1914	6	13	3	65	170	308	195	223	462	473	244	92	2254
	1915	15	94	3	246	162	372	485	340	291	415	478	115	3015
	1916	4	45	17	214	270	275	389	363	313	518	410	157	2976
	1917	8	4	4	22	493	258	449	407	229	493	609	153	3129
	1918	38	7	1	131	345	428	250	180	310	361	166	31	2248
	1919	21	2	1	262	186	169	325	271	382	259	288	69	2235
	1920	12	5	9	37	215	340	556	319	255	609	315	45	2717
	1921	11	33	15	70	200	382	238	378	314	491	215	177	2524
	1922	106	13	1	13	359	310	59	224	358	325	307	182	2256
	1923	37	14	10	19	178	265	125	336	403	803	197	43	2428
	1924	5	51	1	96	326	427	401	355	233	290	284	172	2641
	1925	31	8	4	76	129	260	273	203	301	318	296	62	1960
	1926	3	36	10	1	119	333	334	472	456	414	338	200	2717
	1927	52	52	24	188	406	447	754	213	370	260	427	220	3414
	1928	26	44	46	29	156	309	352	360	332	442	489	132	2718
	1929	5	8	18	22	227	300	239	204	260	397	212	58	1950
	1930	13	9	8	112	281	173	261	130	332	234	144	59	1754
	1931	17	16	58	37	469	399	329	283	391	307	717	72	3095
	1932	52	7	6	86	399	433	214	352	249	524	710	104	3135
	1933	35	2	14	1	272	163	348	342	368	239	464	213	2461
	1934	28	9	18	56	389	326	153	213	325	331	462	189	2500
	1935	90	22	22	97	393	405	482	477	302	228	1248	310	4076
	1936	23	4	12	65	413	365	392	259	420	282	365	28	2627
	1937	122	14	4	31	304	305	375	382	303	406	487	465	3198
	1938	13	7	5	148	453	240	190	367	404	415	398	353	2992
	1939	7	2	5	8	138	252	137	203	255	336	466	211	2019
	1940	49	24	4	11	238	147	206	261	286	352	420	17	2016
	1941	19	87	21	53	309	415	316	295	232	363	305	134	2550
	1942	18	3	16	78	213	295	229	288	315	405	124	223	2208
	1943	52	36	3	97	299	259	127	206	315	311	268	352	2324
	1944	25	13	2	189	252	178	223	431	276	617	272	372	2849
	1945	13	3	3	9	226	230	321	243	255	205	180	253	1941
	1946	3	7	6	20	302	271	345	181	435	289	215	218	2294
	1947	3	6	4	93	194	446	267	338	277	418	250	222	2518
	1948	14	2	8	11	257	221	298	299	245	265	336	65	2020
	1949	6	6	3	28	222	505	412	290	317	217	317	158	2482
	1950	7	16	4	83	223	408	258	291	287	236	356	308	2475
	1951	9	138	6	104	312	332	203	330	167	273	225	89	2186
	1952	42	9	0	82	391	240	243	213	281	496	160	280	2436
	1953	106	24	10	76	45	192	367	206	393	374	288	227	2309

SALAMANCA
MONTHLY RAINFALL IN MM

Latitude	Longitude												Elevation	m
	north	west												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu	
1954	20	19	25	98	234	216	347	339	251	240	279	151	2220	
1955	169	4	15	17	154	336	303	332	135	186	347	120	2118	
1956	139	22	25	61	281	196	371	177	230	334	453	66	2353	
1957	4	2	0	0	104	179	203	209	150	296	301	60	1508	
1958	25	21	63	31	271	273	262	157	264	210	254	69	1900	
1959	3	0	0	27	72	293	136	276	278	256	183	366	1890	
1960	84	10	25	109	317	273	189	349	289	330	289	318	2580	
1961	5	4	8	128	94	362	261	434	366	357	327	136	2481	
1962	17	3	19	18	254	251	356	433	174	391	250	0	2165	
1963	154	39	3	112	162	197	368	304	245	248	402	7	2240	
1964	0	0	3	130	173			281	245	418				
1965		2	0		240					248	361	156		
1966	31	9	65	65	226	282	333	356	356	356	356	267	2700	
1967	14	4	7	170	157	369	344	312	268	320	310	208	2481	
1968	3	23	17	35	234	329	99	280	171	468	352	79	2091	
1969	19	3	22	175	251	250	122	366	395	145	196	210	2154	
1970	260	18	27	350	422	214	296	273	297	258	212	253	2879	
1971	59	7	72	8	87	353	307	358	201	310	178	8	1947	
1972	160	15	41	160	193	188	97	86	279	117	198	99	1633	
1973	15	8	0	20	325	305	269	343	183	396	493	119	2477	
1974	8	3	5	51	178	442	188	229	213	424	269	84	2093	
1975	8	0	38	33	363	257	381	399	185	592	272	218	2746	
1976	30	5	8	51	157	183	81	249	259	165	198	18	1405	
1977	15	5	0	18	224	140	97	356	193	384	226	117	1773	
1978	15	13	23	310	191	338	147	368	284	198	480	18	2385	
1979	3	5	3	417	180	259	257	404	152	366	274	157	2477	
1980	84	41	8	36	287	279	191	218	282	335	330	66	2156	
1981	48	13	53	229	155	340	414	272	178	241	343	312	2598	
1982	89	3	3	145	259	264	216	79	127	305	155	13	1656	
1983	3	0	23	81	201	224	86	231	439	406	371	262	2327	
1984	20			20	254	361	249	368	249	328	320	36		
1985	41	10	25	28	284	297	191	257	376	323	229	269	2329	
1986	8	3	3	218	119	340	107	193	323	419	211	46	1989	
1987	13	10	3	404	251	241	414	231	264	452	323	140	2746	
1988	0	10	10	10	201	196	434	287	328	434	325	104	2339	
1989	20	28	3	3	84	218	305	345	168	417	312	132	2035	
1990	76	0	18	8	226	135	221	333	340	366	216	226	2164	
1991	28	13	28	114	282	175	180	267	290	305	305	41	2027	
1992	8	0	3	150	274	310	239	312	213	218	178	58	1963	
1993	43	0	76	104	218	523	163	142	386	282	318	69	2324	
1994	23	8	30	0	300	272	157	178	297	335	259	18	1877	
1995	25	3	58	76	155	224	264	302	251	343	340	170	2212	

SALAMANCA
MONTHLY RAINFALL IN MM

Latitude		north		Longitude				west		Elevation		m		
Year		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996	183	28	43	102	180	366	104	305	338	287	249	91	2276	
1997	3	8	0	81	188	251	122	112	221	226	94	10	1316	
1998	8	3	3	79	284	279	198	406	312	178	175	249	2174	
1999	41	46	30	53	361	351	371	343	320	376	622	625	3538	
2000	81	13	5	76	74									
Mean	38	16	15	88	245	292	267	288	286	343	326	152	2362	
Max	260	138	76	417	493	523	754	477	462	803	1248	625	4076	
Min	0	0	0	0	45	135	59	79	127	117	94	0	1316	
Std	48	22	18	88	97	85	120	86	77	114	157	116	468	
Skew	2.3	3.1	1.7	1.8	0.3	0.4	0.9	-0.2	0.2	1.0	2.8	1.2	0.7	
CV	1.3	1.4	1.2	1.0	0.4	0.3	0.5	0.3	0.3	0.3	0.5	0.8	0.2	

SANTA ROSA
MONTHLY RAINFALL IN MM

Latitude		09-11-09		north	Longitude	79-39-15		west	Elevation	27.7 m			
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1986	8	15	61	107	81	422	196	170	244	465	213	64	2045
1987	5	5	15	363	277	442	318	338	495	333	279	84	2954
1988	30	5	5	56	191	229	277	173	315	348	246	58	1933
1989	13	25	20	0	206	109	295	277	150	180	480	91	1847
1990	18	5	20	38	267	114	307	239	335	396	264	157	2162
1991	13	0	28	117	378	368	277	178	277	297	236	91	2261
1992	3	0	3	168	236	353	279	272	305	213	178	66	2075
1993	97	5	66	213	206	366	333	229	523	409	305	74	2824
1994	25	3	10	23	226	173	196	300	284	490	290	41	2060
1995	0	0	5	165	345	315	356	427	401	587	429	198	3228
1996	257	13	56	89	257	323	312	406	236	231	300	51	2530
1997	5	0	0	46	213	262	239	213	297	224	264	5	1768
1998	3	5	0	58	213	351	259	343	361	183	264	328	2367
1999	20	122	36	81	267	467	185	363	231	348	409	472	3002
2000	33	3	5	66	249	269	221	361	295	353	262	249	2365
Mean	35	14	22	106	241	304	270	286	317	337	295	135	2361
Max	257	122	66	363	378	467	356	427	523	587	480	472	3228
Min	0	0	0	0	81	109	185	170	150	180	178	5	1768
Std	66	31	23	92	68	111	53	85	98	120	83	127	454
Skew	3.2	3.6	1.0	1.7	-0.1	-0.5	-0.2	0.1	0.8	0.5	1.1	1.7	0.6
CV	1.9	2.2	1.0	0.9	0.3	0.4	0.2	0.3	0.3	0.4	0.3	0.9	0.2

ARCA SONIA
MONTHLY RAINFALL IN MM

Latitude		09-11-36		north	Longitude		79-30-54		west	Elevation		265.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999													
2000	81	15	20	36	447	345	361	447	396	447	165	401	3162
Mean													
Max													
Min													

ESPERANZA
MONTHLY RAINFALL IN MM

Latitude		09-24-35		north	Longitude		79-21-08		west	Elevation		m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999	290	312	185	168	348	389	516	554	290	292	516	902	4760
2000	437	198	185	234	602	470	376	378	290	561	221	978	4930
Mean	363	255	185	201	475	429	446	466	290	427	368	940	4845
Max													
Min													

FRIOLITO
MONTHLY RAINFALL IN MM

Latitude		09-13-08		north	Longitude		79-42-58		west	Elevation		349.0 m	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999	56	69	112	86	157	206	130	406	264	287	376	447	2596
2000	56	15	8	86	389	284	269	246	312	307	211	318	2502
Mean	56	42	60	86	273	245	199	326	288	297	293	382	2549
Max													
Min													

GOLD HILL
MONTHLY RAINFALL IN MM

Latitude	09-02-34	north	Longitude	79-38-35	west	Elevation	180 m						
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999													
2000													53
Mean													
Max													
Min													

DOS BOCAS
MONTHLY RAINFALL IN MM

Latitude	09-27-09	north	Longitude	79-25-5	west	Elevation	228.0 m						
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999													
2000					335	488	401	460	417	409	467	874	
Mean													
Max													
Min													

CHAMON
MONTHLY RAINFALL IN MM

Latitude	09-20-31	north	Longitude	79-19-06	west	Elevation	640.0 m						
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999													
2000	340	150	107	216	424	531	221	361	318	368	279	1001	4315
Mean													
Max													
Min													

CERRO CAMA
MONTHLY RAINFALL IN MM

Latitude	09-01-36	north	Longitude	79-54-21	west	Elevation	120.0 m						
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999													
2000					61	229	378	160	208	259	333	216	333
Mean													
Max													
Min													

GASPARILLAL
MONTHLY RAINFALL IN MM

Latitude	08-51-46	north	Longitude	80-00-56	west	Elevation	346.0 m						
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999													
2000										300	137	224	
Mean													
Max													
Min													

GATUN WEST
MONTHLY RAINFALL IN MM

Latitude	09-15-47	north	Longitude	79-55-45	west	Elevation	33.0 m						
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998	56	18	5	20	307	208	173	282	348	203	152	18	1791
1999	20	30	53	495	284	193	381	246	89	249	254	348	2644
2000	102	48	160	112	267	254	333	480	226	257	378	640	3256
Mean	59	32	73	209	286	218	295	336	221	236	262	335	2564
Max	102	48	160	495	307	254	381	480	348	257	378	640	3256
Min	20	18	5	20	267	193	173	246	89	203	152	18	1791

LIMON BAY
MONTHLY RAINFALL IN MM

Latitude	09-21-20		north	Longitude	79-54-53		west	Elevation	3.0 m				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997	36	5	3	56	267	193	193	305	460	198	371	15	2101
1998							284	345	208	424	249	401	
1999	74	30	84	76	386	267	500	467	193	282	378	625	3363
2000	84	0	0	3	58	574	145	323	229	533	203	620	2771
Mean	64	12	29	45	237	345	281	360	272	359	300	415	2745
Max	84	30	84	76	386	574	500	467	460	533	378	625	3363
Min	36	0	0	3	58	193	145	305	193	198	203	15	2101

JAGUA
MONTHLY RAINFALL IN MM

Latitude	08-44-14		north	Longitude	80-02-50		west	Elevation	545.5 m				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999	107	94	114	203	371	325	221	442	485	264	373	513	3513
2000	160	127	36	150	325	371	274	272	224	272	226	218	2654
Mean	133	110	75	177	348	348	248	357	354	268	300	366	3084
Max													
Min													

LIMPIO
MONTHLY RAINFALL IN MM

Latitude	09-19-41		north	Longitude	79-28-07		west	Elevation	684.0 m				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999	94						231	445	244				
2000													
Mean													
Max													
Min													

MIRAFLORAS
MONTHLY RAINFALL IN MM

Latitude	09-00-51		north	Longitude		79-36-36		west		Elevation	20.0 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999	81	79	46	74	224	272	127	203	282	274	218	241	2121
2000	48	10	0	183	193	269	241	203	211	351	140	170	2019
Mean	65	44	23	128	208	271	184	203	246	312	179	206	2070
Max													
Min													

VISTAMARES
MONTHLY RAINFALL IN MM

Latitude	09-14-04		north	Longitude		79-24-05		west		Elevation	968.0 m		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annu
1996													
1997													
1998													
1999	74	221	51	170	257	556	358	378	528	483	445	594	4115
2000	97	28	33	173	343	526	267	427	536	439	206	475	3548
Mean	85	124	42	171	300	541	312	403	532	461	325	535	3832
Max													
Min													

STREAMFLOW

PEQUENI RIVER AT CANDELARIA (CDL)
MONTHLY FLOW IN M³/S

Lat. 09-23 N Long. 79-44 W Elev. 79.25 mPLD D.A. 135 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1933	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	11.8	7.2	17.3	29.9	16.5
1934	-1.0	4.8	3.3	3.9	14.5	13.3	12.7	13.8	14.5	16.2	18.2	17.3	12.1
1935	13.0	7.0	4.2	3.1	15.5	11.6	30.7	19.5	13.1	12.8	72.1	33.5	19.7
1936	6.2	3.2	2.5	4.1	22.1	10.3	18.7	15.3	12.0	12.9	20.2	9.3	11.4
1937	19.4	7.1	4.1	3.7	14.7	13.0	15.7	14.9	14.7	16.5	14.6	34.4	14.4
1938	8.7	6.5	4.4	11.4	24.6	23.6	13.7	21.1	13.4	13.2	14.4	39.7	16.2
1939	8.5	4.1	3.1	2.8	3.6	11.3	10.7	15.7	11.8	9.3	23.8	19.9	10.4
1940	9.7	7.1	4.6	3.8	7.7	15.6	12.7	24.7	14.9	15.1	17.7	9.6	11.9
1941	6.3	11.1	9.2	4.3	12.1	23.8	15.5	21.3	14.4	35.7	27.2	18.0	16.6
1942	7.3	5.4	6.8	13.6	12.5	21.9	17.6	16.5	19.5	24.7	13.6	15.8	14.6
1943	12.7	7.8	4.9	7.2	14.9	22.5	15.8	20.3	17.6	16.1	15.5	37.4	16.1
1944	9.3	9.2	3.8	5.7	20.9	15.0	20.9	24.4	16.4	24.6	26.4	54.1	19.2
1945	11.2	5.7	3.8	3.4	13.3	16.8	17.6	20.4	15.8	14.0	13.2	28.9	13.7
1946	5.4	3.8	2.6	3.7	12.9	17.2	27.5	16.1	15.9	15.4	11.8	34.4	13.9
1947	9.6	5.6	3.1	5.0	8.4	18.3	22.4	21.3	17.2	14.9	14.8	20.4	13.4
1948	6.6	3.5	2.3	2.3	7.2	12.2	20.3	15.1	17.1	15.9	17.9	10.1	10.9
1949	5.6	3.2	2.0	3.3	10.8	22.6	24.3	21.1	19.5	21.4	21.5	25.0	15.0
1950	7.5	7.4	4.2	8.8	22.3	16.2	38.1	25.9	16.6	13.0	21.9	31.4	17.8
1951	9.0	21.2	10.9	8.8	15.2	15.3	13.9	14.6	15.5	14.4	12.6	18.5	14.2
1952	8.0	4.8	2.7	3.5	12.1	11.6	19.2	24.2	18.0	23.0	14.8	23.7	13.8
1953	17.5	10.4	4.6	5.3	19.3	11.8	13.3	13.1	11.8	12.5	19.3	14.4	12.8
1954	6.7	4.8	4.4	6.4	13.6	16.5	17.8	19.2	15.0	10.8	27.8	29.2	14.4
1955	24.2	6.3	5.2	4.2	9.1	7.4	19.6	26.6	13.3	9.3	35.2	16.8	14.8
1956	23.4	9.4	9.2	9.3	24.2	17.8	23.5	15.1	14.9	13.0	28.0	22.0	17.5
1957	6.3	4.5	3.5	3.0	7.1	8.5	7.3	9.6	9.0	14.3	27.1	19.6	10.0
1958	19.7	7.5	6.0	4.1	8.9	9.5	16.3	12.8	18.3	14.3	19.3	13.5	12.5
1959	6.1	4.1	3.1	4.7	10.6	14.3	13.8	14.2	24.6	17.0	34.2	42.1	15.7
1960	19.0	5.6	4.6	15.9	17.4	16.8	15.8	12.9	11.8	12.7	19.4	38.7	15.9
1961	6.6	4.4	3.3	5.2	9.9	5.2	14.3	16.1	11.7	18.3	14.9	12.1	10.2
1962	5.7	4.3	3.3	4.0	12.9	11.8	22.7	21.5	16.3	15.8	18.0	13.5	12.5
1963	17.1	6.8	4.3	8.3	23.4	18.9	19.7	21.8	18.0	11.5	16.7	8.7	14.6
1964	4.7	3.4	3.0	5.8	14.3	22.2	17.1	15.9	13.5	12.3	17.1	8.8	11.5
1965	7.5	4.8	3.7	3.0	10.5	21.8	15.9	11.9	18.0	17.6	24.5	23.1	13.5

PEQUENI RIVER AT CANDELARIA (CDL)

MONTHLY FLOW IN M³/S

Lat. 09-23 N		Long. 79-44 W		Elev. 79.25 mPLD										D.A. 135 km ²		
<u>Year</u>		<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>		
1966	11.1	5.8	4.3	15.7	19.0	15.0	13.6	13.9	17.6	15.6	44.6	35.3	17.6			
1967	11.4	6.1	5.5	13.8	23.1	20.2	22.9	15.4	15.0	12.0	23.4	21.6	15.9			
1968	5.9	4.8	5.4	6.6	17.7	15.3	17.8	17.2	17.4	16.0	14.6	11.3	12.5			
1969	6.7	5.0	4.2	7.2	14.5	8.4	13.6	17.5	15.0	10.1	13.4	41.7	13.1			
1970	36.8	4.3	8.3	20.8	24.7	12.9	14.8	18.0	17.1	19.4	20.2	41.8	19.9			
1971	13.3	6.8	-1.0	-1.0	10.4	18.3	27.4	15.0	11.6	13.0	14.1	9.0	13.9			
1972	39.1	7.1	4.2	7.0	15.3	15.0	12.4	10.5	18.5	17.0	16.1	12.4	14.6			
1973	6.0	3.6	1.6	1.3	10.3	11.4	17.7	17.5	12.0	12.0	26.5	17.6	11.5			
1974	9.7	4.4	3.1	1.9	5.9	9.6	13.4	14.0	10.3	13.4	20.1	12.5	9.8			
1975	4.6	3.1	2.5	1.8	14.0	17.8	20.9	29.3	18.7	17.8	22.3	28.5	15.1			
1976	9.1	5.0	4.4	6.7	10.2	10.7	7.6	7.7	10.6	15.1	22.0	6.3	9.6			
1977	5.9	3.9	2.9	3.1	5.2	6.9	11.1	17.4	13.8	24.7	18.7	19.7	11.1			
1978	6.4	5.8	4.4	12.6	23.6	17.1	15.3	20.1	14.5	13.4	16.1	9.6	13.2			
1979	4.2	3.7	2.7	10.8	10.0	14.8	11.5	13.1	9.9	13.5	17.7	26.3	11.5			
1980	15.4	9.5	4.8	4.5	13.2	20.7	10.6	10.9	9.3	13.7	14.1	18.1	12.1			
1981	12.4	7.9	6.5	44.0	20.4	13.6	23.4	15.8	9.8	16.0	19.7	30.1	18.3			
1982	12.9	6.1	4.0	5.3	8.2	8.6	17.6	17.2	13.6	23.0	14.2	8.6	11.6			
1983	6.7	3.8	2.9	6.5	17.6	14.8	13.8	12.5	13.7	19.1	18.3	45.1	14.6			
1984	8.7	5.9	3.3	2.1	6.3	13.3	16.1	20.9	13.5	15.8	17.7	13.3	11.4			
1985	6.0	4.0	3.8	2.9	11.4	17.5	12.2	11.1	17.7	16.2	14.5	22.3	11.6			
1986	5.9	3.2	2.7	12.3	23.2	19.1	17.6	15.3	21.6	14.9	19.7	7.6	13.6			
1987	4.2	4.4	2.6	15.7	37.8	20.1	16.8	21.5	22.9	16.8	25.7	12.0	16.7			
1988	4.3	4.6	2.8	2.0	8.3	7.8	26.6	30.2	10.9	18.4	15.5	13.1	12.1			
1989	7.1	7.1	4.1	2.6	10.0	16.3	22.5	21.8	13.4	20.6	23.8	13.5	13.6			
1990	14.0	7.4	6.0	5.0	21.8	11.7	11.5	20.8	16.0	20.1	17.4	14.2	13.8			
1991	5.5	3.4	4.7	3.3	19.5	10.8	8.9	12.9	26.4	12.8	31.7	12.6	12.7			
1992	6.0	3.4	2.8	7.9	31.9	18.2	17.4	26.5	19.3	11.9	19.9	16.0	15.1			
1993	11.4	5.9	6.9	17.8	15.0	16.7	12.9	10.4	17.3	26.4	21.1	18.7	15.0			
1994	7.1	4.8	2.9	2.7	14.0	22.5	15.0	24.9	14.0	12.5	25.0	9.2	12.9			
1995	6.2	3.6	2.2	5.1	12.9	18.6	25.1	13.3	13.2	11.8	18.5	29.8	13.3			
1996	30.9	10.2	11.1	8.1	24.2	19.8	15.9	15.3	11.8	12.1	34.7	34.9	19.1			
1997	6.4	7.6	4.3	2.9	14.3	15.1	10.3	9.5	9.0	10.7	8.3	3.9	8.5			
1998	2.8	2.6	1.2	6.4	12.5	9.7	18.0	20.2	15.8	11.8	10.4	24.7	11.3			

PEQUENI RIVER AT CANDELARIA (CDL)

MONTHLY FLOW IN M³/S

Lat. 09-23 N Long. 79-44 W Elev. 79.25 mPLD D.A. 135 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1999	14.9	11.0	10.6	16.3	18.4	20.3	22.8	-1.0	-1.0	15.0	17.4	57.1	20.4
2000	19.7	10.1	7.3	-1.0	15.7	23.3	16.5	17.2	15.7	17.8	16.1	29.6	17.2
Mean	10.7	6.0	4.4	7.1	15.0	15.3	17.3	17.5	15.1	15.7	20.7	22.1	13.9
Max	39.1	21.2	11.1	44.0	37.8	23.8	38.1	30.2	26.4	35.7	72.1	57.1	19.9
Min	2.8	2.6	1.2	1.3	3.6	5.2	7.3	7.7	9.0	7.2	8.3	3.9	8.5
Std	7.4	2.8	2.2	6.5	6.5	4.7	5.6	5.0	3.6	4.7	9.0	12.0	2.6
Skew	2.1	2.6	1.6	3.3	0.9	0.0	1.1	0.5	0.7	1.6	3.2	0.8	0.4
CV	0.7	0.5	0.5	0.9	0.4	0.3	0.3	0.3	0.2	0.3	0.4	0.5	0.2

Note : Missing flow in bold values.

BOQUERON RIVER AT PELUCA (PEL)
MONTHLY FLOW IN M³/S

Lat. 09-23 N Long. 79-34 W Elev. 79.86 mPLD D.A. 91 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1933	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	6.8	3.6	15.5	19.5	11.3
1934	4.9	1.7	0.9	1.4	10.0	7.7	7.1	7.4	8.6	8.6	15.9	9.5	7.0
1935	7.5	3.3	2.3	2.2	9.5	5.6	15.0	9.6	5.7	5.6	39.6	20.8	10.6
1936	3.1	1.3	0.7	1.8	8.8	4.9	11.0	8.7	9.9	7.9	12.6	4.9	6.3
1937	9.5	3.5	1.5	1.6	7.2	6.8	9.2	10.4	7.2	9.6	12.2	20.8	8.3
1938	4.1	2.7	1.3	5.3	15.5	18.3	6.9	12.1	6.7	5.2	10.7	24.0	9.4
1939	4.9	1.8	2.0	2.3	2.3	7.4	8.0	15.2	8.5	6.6	19.6	14.1	7.7
1940	6.6	3.8	2.4	1.7	4.6	7.2	7.5	15.7	8.4	6.6	9.3	4.9	6.6
1941	2.9	4.6	2.8	1.9	7.6	11.2	10.7	12.0	6.9	19.3	15.8	8.2	8.7
1942	3.0	2.5	3.0	5.9	5.4	13.7	10.2	11.4	10.9	12.2	8.4	9.8	8.0
1943	5.0	3.7	2.6	2.9	8.9	11.1	8.4	12.4	11.2	8.7	9.2	21.2	8.8
1944	3.9	4.6	2.0	4.4	16.0	8.8	11.3	15.3	10.2	19.2	22.6	38.4	13.1
1945	5.2	2.5	1.6	1.4	8.1	7.0	11.9	13.2	9.6	7.8	8.4	11.8	7.4
1946	3.8	1.8	1.2	1.5	4.8	6.6	12.6	6.4	6.9	3.6	8.7	22.7	6.7
1947	2.5	2.2	1.2	1.5	4.7	8.4	15.8	11.7	5.5	4.9	5.0	8.3	6.0
1948	2.9	1.7	1.3	1.3	3.6	5.2	10.2	7.6	6.7	5.9	10.3	6.3	5.3
1949	2.4	1.6	1.3	2.2	7.9	11.6	15.0	11.7	8.8	10.4	13.2	13.8	8.3
1950	3.1	3.6	1.9	4.3	9.1	7.5	21.2	9.5	5.6	5.6	10.9	19.2	8.5
1951	3.9	9.7	4.7	5.7	7.5	7.4	5.0	8.1	7.3	8.2	8.0	8.7	7.0
1952	3.7	2.2	1.4	2.7	4.4	6.4	11.7	13.9	9.0	10.9	5.9	16.3	7.4
1953	11.6	9.7	2.3	2.2	8.9	6.9	8.9	8.2	6.3	6.7	13.1	9.5	7.9
1954	3.4	2.6	1.8	3.9	8.2	10.5	13.3	15.1	7.4	6.1	19.2	21.6	9.4
1955	15.5	2.9	1.9	1.6	4.5	4.5	7.7	14.6	6.1	3.9	18.9	10.7	7.7
1956	13.5	4.7	4.9	4.1	14.4	9.0	12.9	6.7	7.3	5.1	16.8	13.6	9.4
1957	2.9	1.6	1.2	1.0	4.7	3.2	2.2	4.2	4.8	6.6	17.8	11.4	5.1
1958	8.8	3.4	2.8	1.8	4.6	4.2	10.4	10.3	11.1	6.1	9.0	10.6	6.9
1959	3.7	1.6	1.2	2.6	4.9	7.5	7.9	8.0	15.5	9.2	26.7	28.2	9.7
1960	15.0	2.3	2.0	10.5	8.7	8.8	9.1	10.1	5.6	6.6	9.6	26.3	9.5
1961	11.2	2.2	1.5	1.6	4.6	20.7	13.8	4.8	4.3	7.4	8.3	8.6	7.4
1962	5.6	1.8	1.2	1.4	5.7	5.4	10.1	11.2	6.9	7.8	9.9	6.9	6.1
1963	8.1	2.4	1.5	2.3	13.5	9.7	9.7	10.5	8.7	5.4	8.9	4.3	7.1
1964	2.1	1.2	1.1	1.4	6.7	13.0	10.4	7.9	-1.0	-1.0	9.3	3.9	5.7

BOQUERON RIVER AT PELUCA (PEL)
MONTHLY FLOW IN M³/S

Lat. 09-23 N Long. 79-34 W Elev. 79.86 mPLD D.A. 91 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1965	3.8	1.8	1.6	1.5	5.1	-1.0	-1.0	-1.0	7.1	10.6	14.6	13.2	5.8
1966	5.7	2.9	2.3	7.9	10.1	5.7	5.2	6.6	8.4	6.7	26.0	14.5	8.5
1967	5.1	3.0	2.4	6.5	9.9	9.0	14.9	6.6	6.2	4.2	10.6	9.5	7.3
1968	2.2	2.0	3.1	2.8	6.8	6.5	8.9	8.3	8.2	8.4	7.3	6.2	5.9
1969	2.7	2.3	2.0	2.2	6.1	3.3	5.4	8.5	6.4	6.8	7.3	22.5	6.3
1970	19.7	2.9	2.0	8.3	14.3	7.7	8.6	9.7	7.4	6.7	14.2	29.1	10.9
1971	4.7	2.0	2.7	1.1	4.7	9.8	17.3	10.1	7.5	7.6	9.8	4.4	15.7
1972	27.8	6.2	2.0	5.0	12.4	8.4	6.7	6.8	10.9	9.4	7.6	8.0	9.3
1973	2.8	1.6	0.8	0.7	5.0	6.4	9.4	7.5	5.5	5.7	20.8	12.5	6.5
1974	5.4	2.0	1.5	1.3	3.1	6.7	8.9	7.4	5.0	6.9	16.1	6.2	5.9
1975	1.8	0.9	0.7	0.5	8.8	14.2	18.4	20.2	6.8	9.1	11.7	20.2	9.5
1976	4.6	2.3	1.9	4.5	4.6	6.3	4.2	4.0	6.9	7.0	11.9	2.8	5.1
1977	2.9	1.6	1.1	1.3	2.4	3.2	5.7	7.5	8.9	13.8	10.3	10.6	5.8
1978	1.0	2.3	1.7	8.5	13.7	10.7	4.2	9.5	7.2	5.1	8.4	4.2	6.4
1979	2.4	1.2	0.8	5.3	4.7	7.3	5.2	5.6	4.6	5.8	9.3	18.9	5.9
1980	5.7	2.4	1.2	1.4	6.2	11.5	4.9	4.1	4.3	8.2	8.6	12.1	5.9
1981	6.2	3.4	3.2	30.0	13.1	8.7	13.6	7.8	4.8	6.4	11.9	20.8	10.8
1982	6.6	2.9	1.5	2.8	2.6	3.7	8.6	11.8	7.4	11.8	6.0	3.7	5.8
1983	2.9	1.5	0.9	2.7	9.1	7.9	8.7	8.3	7.9	9.4	10.0	33.2	8.6
1984	4.2	3.0	1.7	1.0	3.5	10.3	9.2	13.4	7.3	6.0	11.4	8.0	6.6
1985	1.9	2.1	2.0	1.7	5.5	9.7	6.6	5.6	10.2	8.3	8.4	14.9	6.4
1986	4.9	2.5	1.7	9.4	13.8	10.5	8.2	7.8	12.2	8.0	12.1	3.4	7.9
1987	1.4	1.5	0.7	12.3	19.3	9.6	7.6	9.2	11.4	9.3	16.6	5.8	8.7
1988	2.7	3.5	2.1	1.9	5.7	4.2	19.7	17.3	5.7	14.4	8.2	7.9	7.8
1989	3.2	4.2	1.7	1.1	7.7	9.7	13.7	13.1	5.7	11.4	14.0	8.2	7.8
1990	9.7	5.0	4.2	3.1	11.9	6.3	6.6	11.4	8.8	11.8	9.7	8.0	8.0
1991	3.4	2.5	2.0	1.8	15.5	5.6	5.1	6.7	15.1	5.8	21.0	6.7	7.6
1992	2.5	1.2	1.2	5.2	21.0	7.2	8.1	19.0	10.2	7.4	12.5	8.7	8.7
1993	5.5	2.6	4.0	9.2	7.3	11.0	9.5	7.7	11.0	14.4	13.0	13.1	9.0
1994	2.9	2.0	1.8	1.3	10.4	15.7	11.0	16.0	8.5	6.0	15.2	5.6	8.0
1995	3.9	1.7	1.2	1.8	4.3	11.9	13.2	5.2	6.4	4.8	13.7	17.7	7.1
1996	13.4	5.0	5.1	4.6	14.6	8.5	8.1	6.9	4.4	5.1	23.8	21.0	10.1

BOQUERON RIVER AT PELUCA (PEL)
MONTHLY FLOW IN M³/S

	Lat. 09-23 N			Long. 79-34 W			Elev. 79.86 mPLD			D.A. 91 km ²			
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1997	3.1	3.8	1.6	1.1	8.3	8.1	3.6	4.9	5.1	5.2	3.8	1.9	4.2
1998	1.6	1.0	0.7	5.8	5.1	6.3	11.2	10.6	7.7	7.3	4.2	12.3	6.2
1999	5.6	2.9	3.2	6.3	9.0	8.2	15.1	11.5	6.9	7.6	12.5	37.5	10.5
2000	9.9	2.6	2.4	-1.0	7.7	15.7	6.3	8.9	5.0	9.5	9.5	17.1	8.6
Mean	5.6	2.8	1.9	3.7	8.2	8.5	9.8	9.8	7.7	8.0	12.7	13.4	7.9
Max	27.8	9.7	5.1	30.0	21.0	20.7	21.2	20.2	15.5	19.3	39.6	38.4	15.7
Min	0.0	0.9	0.7	0.0	2.3	3.2	2.2	4.0	4.3	3.6	3.8	1.9	4.2
Std	4.7	1.6	1.0	4.2	4.2	3.5	3.9	3.6	2.4	3.2	6.0	8.4	2.0
Skew	2.5	2.5	1.4	4.0	1.0	1.2	0.7	0.7	1.1	1.6	1.8	1.1	1.2
CV	0.8	0.6	0.5	1.1	0.5	0.4	0.4	0.4	0.3	0.4	0.5	0.6	0.3

Note : Missing flow in bold values.

CHAGRES RIVER AT CHICO (CHI)
MONTHLY FLOW IN M³/S

Lat. 09-16 N Long. 79-31 W Elev. 80.77 mPLD D.A. 414 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1933	-1.0	-1.0	11.4	9.0	19.5	21.3	20.4	24.3	30.9	19.1	42.1	67.6	26.6
1934	24.9	11.0	8.2	12.3	31.9	32.8	-1.0	-1.0	-1.0	51.5	62.9	41.8	30.8
1935	39.5	17.7	11.7	8.5	26.8	25.3	64.6	43.4	34.9	30.4	177.5	103.6	48.7
1936	15.9	9.5	7.8	9.4	38.2	24.4	30.5	33.5	40.2	38.8	42.6	24.8	26.3
1937	38.5	20.3	11.2	9.9	20.0	22.1	24.5	28.6	34.1	44.4	54.5	80.3	32.4
1938	20.4	14.5	11.0	26.7	53.6	41.2	37.2	67.8	41.1	41.5	51.0	106.9	42.7
1939	25.8	12.1	9.3	8.9	10.1	19.7	15.0	23.1	23.9	23.4	49.3	41.1	21.8
1940	22.0	16.0	14.2	11.9	15.5	18.2	15.6	26.9	22.4	35.6	31.8	21.4	21.0
1941	15.0	22.1	17.5	11.9	22.2	37.3	28.1	37.5	40.4	75.6	66.9	43.4	34.8
1942	21.2	15.9	15.9	24.8	17.9	29.7	33.1	32.2	39.1	52.2	40.8	34.6	29.8
1943	28.8	20.5	15.8	17.0	33.6	35.4	27.3	31.9	31.6	45.4	41.1	76.6	33.7
1944	26.7	20.2	10.7	17.8	37.7	31.1	42.0	42.9	37.5	56.3	53.5	89.1	38.8
1945	29.4	17.8	11.2	11.4	25.3	28.9	30.7	40.2	36.1	34.8	31.4	65.6	30.2
1946	19.8	14.4	9.8	12.7	24.1	27.7	39.6	42.8	34.9	30.8	25.5	58.7	28.4
1947	19.9	13.6	8.6	9.5	13.9	22.9	32.2	33.7	28.5	32.1	35.6	39.3	24.1
1948	16.6	9.0	6.3	6.1	14.2	23.7	40.0	31.5	26.6	38.9	45.8	29.5	24.0
1949	15.0	9.4	6.9	7.2	23.5	39.1	51.0	48.3	38.3	45.0	61.3	53.5	33.2
1950	20.6	17.1	10.8	20.0	40.4	30.1	53.9	45.8	32.9	26.2	50.8	60.1	34.1
1951	19.7	43.2	23.2	19.4	25.8	30.5	33.2	24.8	28.7	24.8	28.9	28.2	27.5
1952	18.4	12.4	9.0	10.6	24.1	23.8	31.5	38.2	35.0	49.4	31.5	53.2	28.1
1953	41.4	27.0	14.0	12.5	37.6	27.6	32.6	31.4	28.1	33.6	39.6	34.3	30.0
1954	18.3	13.7	12.4	12.8	21.7	34.6	34.7	39.0	38.1	25.0	64.2	63.2	31.5
1955	64.8	18.3	12.7	10.2	15.3	17.5	28.3	48.7	31.4	28.5	77.0	44.0	33.1
1956	62.4	21.7	19.2	19.8	43.4	37.2	63.9	34.1	35.7	44.6	86.3	41.5	42.5
1957	17.5	11.6	8.2	6.9	13.1	12.7	11.9	13.9	18.2	30.6	49.0	33.0	18.9
1958	32.8	14.8	10.7	7.3	17.6	21.2	22.1	25.2	27.0	27.7	33.3	27.2	22.3
1959	12.7	8.6	6.7	9.7	17.9	17.5	16.4	18.4	32.1	33.2	54.9	89.5	26.5
1960	53.9	12.3	8.9	21.4	27.4	29.6	30.8	29.1	30.2	34.3	35.6	94.0	34.0
1961	18.4	10.1	8.2	11.9	18.5	43.1	26.8	33.5	31.5	37.7	45.0	28.4	26.1
1962	17.6	11.2	9.0	9.5	27.6	20.2	33.0	44.1	38.1	36.4	40.6	31.7	26.6
1963	37.8	19.3	12.9	27.3	39.0	41.3	47.7	45.7	49.4	37.7	43.9	25.3	35.6
1964	15.4	12.1	9.9	16.9	26.9	45.5	28.0	26.4	31.7	27.9	39.2	22.2	25.2
1965	18.2	14.1	11.9	10.7	23.7	33.1	23.2	30.7	40.3	50.8	50.1	51.4	29.8

CHAGRES RIVER AT CHICO (CHI)
MONTHLY FLOW IN M³/S

Lat. 09-16 N Long. 79-31 W			Elev. 80.77 mPLD										D.A. 414 km ²		
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>		
1966	25.9	16.8	12.6	34.7	41.0	32.7	34.0	30.4	38.1	42.3	-1.0	77.1	35.0		
1967	33.9	19.9	13.4	31.2	43.0	49.5	44.8	33.9	35.3	30.5	36.1	37.1	34.0		
1968	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1971	43.6	-1.0	-1.0	-1.0	-1.0	-1.0	46.4	38.7	33.2	31.1	39.3	21.6	36.3		
1972	57.4	14.6	10.3	25.8	17.6	21.7	14.1	25.3	19.7	31.7	34.0	19.9	24.3		
1973	11.9	8.4	5.6	5.1	16.3	28.4	28.3	32.3	28.3	36.1	60.4	46.0	25.6		
1974	27.2	13.2	9.7	7.5	13.0	16.8	21.9	31.3	31.3	42.8	39.7	26.7	23.4		
1975	12.1	7.5	5.1	-1.0	-1.0	28.8	44.8	52.0	34.7	46.6	58.0	58.0	34.8		
1976	25.8	14.0	11.2	12.7	19.9	18.5	12.9	15.0	22.3	39.8	42.6	17.9	21.0		
1977	15.8	11.0	8.2	8.2	14.7	17.1	22.5	28.8	26.7	56.3	45.2	33.1	24.0		
1978	13.8	11.7	8.4	26.6	28.2	39.8	46.7	48.8	32.4	34.6	42.6	23.5	29.8		
1979	12.1	8.9	6.9	17.8	17.1	23.7	27.3	36.7	31.7	28.5	42.8	41.1	24.5		
1980	30.8	18.5	10.1	10.7	22.3	29.3	17.9	21.2	23.5	30.4	43.6	39.6	24.8		
1981	23.2	17.7	14.4	100.6	46.3	37.2	40.0	38.9	27.9	33.1	40.7	61.6	40.1		
1982	32.1	14.6	9.2	12.3	22.0	19.2	32.7	31.1	29.5	45.9	31.9	20.4	25.1		
1983	15.3	8.5	6.2	5.4	36.6	22.2	19.6	21.6	27.7	34.3	40.0	76.5	26.2		
1984	25.6	15.5	8.9	6.3	18.7	30.3	39.1	67.8	48.4	55.1	55.8	35.1	33.9		
1985	19.1	12.9	12.9	9.4	19.5	34.2	26.2	21.2	37.8	30.6	29.8	51.9	25.5		
1986	17.7	11.8	12.1	21.9	49.3	30.6	25.3	22.0	36.6	57.6	-1.0	30.2	28.7		
1987	13.3	12.6	8.2	28.5	55.9	36.0	36.4	44.2	51.5	39.7	60.6	29.8	34.7		
1988	13.7	14.5	9.1	7.0	24.5	22.3	43.8	57.2	40.8	50.8	44.4	32.4	30.0		
1989	20.6	19.9	12.1	8.6	17.2	31.9	34.4	37.8	32.3	58.5	67.4	36.2	31.4		
1990	29.7	17.6	14.0	22.3	74.5	21.0	19.1	34.1	44.7	57.4	58.6	63.0	38.0		
1991	19.6	12.7	15.4	11.8	31.4	21.9	22.8	23.0	33.3	33.4	57.3	33.6	26.3		
1992	16.4	10.9	8.8	14.0	46.6	45.2	34.9	49.8	41.1	33.4	48.8	31.1	31.7		
1993	25.3	12.2	17.0	26.8	36.3	47.8	36.1	25.8	37.7	58.1	40.7	26.5	32.5		
1994	12.9	8.6	7.3	6.4	25.4	36.7	37.9	33.0	34.4	37.0	65.2	30.3	27.9		
1995	15.4	8.3	4.8	6.1	19.1	36.4	43.6	41.3	28.7	31.0	38.5	50.0	26.9		
1996	73.2	30.5	22.6	19.3	47.5	42.5	45.3	49.9	33.7	42.1	83.2	94.7	48.7		
1997	29.0	16.8	9.1	7.8	31.3	26.8	16.2	13.5	18.4	24.6	21.9	21.6	19.7		
1998	12.2	8.4	5.0	14.3	39.6	24.0	31.0	33.9	34.2	33.5	38.5	54.8	27.4		

CHAGRES RIVER AT CHICO (CHI)
MONTHLY FLOW IN M³/S

Lat. 09-16 N Long. 79-31 W Elev. 80.77 mPLD D.A. 414 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1999	30.8	24.0	14.8	17.5	25.7	36.2	45.3	53.8	44.3	40.5	52.1	126.7	42.6
2000	50.9	19.6	11.7	9.0	21.8	41.7	28.2	32.8	40.8	53.9	33.3	84.2	35.7
Mean	25.9	15.1	10.9	15.5	28.1	29.6	32.3	35.1	33.6	39.2	48.8	48.3	30.2
Max	73.2	43.2	23.2	100.6	74.5	49.5	64.6	67.8	51.5	75.6	177.5	126.7	48.7
Min	11.9	7.5	4.8	5.1	10.1	12.7	11.9	13.5	18.2	19.1	21.9	17.9	18.9
Std	13.8	6.0	3.8	13.1	12.6	8.8	11.6	11.6	7.0	11.0	21.2	25.0	6.5
Skew	1.6	2.0	1.0	4.6	1.2	0.3	0.5	0.6	0.1	0.8	3.8	1.1	0.8
CV	0.5	0.4	0.4	0.8	0.5	0.3	0.4	0.3	0.2	0.3	0.4	0.5	0.2

Note : Missing flow in bold values.

GATUN RIVER AT CIENTO (CNT)
MONTHLY FLOW IN M³/S

Lat. 09-18 N Long. 79-44 W Elev. 30.48 mPLD D.A. 117 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1941	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1942	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1943	-1.0	-1.0	-1.0	-1.0	5.6	-1.0	-1.0	7.2	7.0	10.6	13.0	19.5	10.5
1944	4.6	2.3	1.2	2.8	9.1	5.0	7.4	12.1	6.0	20.4	15.4	20.2	8.9
1945	5.7	3.3	1.5	0.9	2.7	3.2	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	2.9
1946	-1.0	-1.0	-1.0	1.2	2.6	3.3	9.2	6.4	8.9	6.9	7.8	16.0	6.9
1947	4.7	2.5	-1.0	1.2	2.1	-1.0	-1.0	-1.0	7.8	9.0	10.8	9.4	5.9
1948	4.2	2.4	1.5	0.8	2.7	3.2	6.6	4.9	4.8	5.8	9.9	3.9	4.2
1949	2.0	1.3	1.0	0.9	2.6	6.3	6.8	7.0	7.1	9.9	19.5	9.8	6.2
1950	3.0	2.3	1.7	1.8	3.7	5.9	8.6	7.2	6.2	6.2	17.3	20.9	7.1
1951	3.6	4.7	2.4	2.1	4.2	4.0	5.5	8.7	7.4	10.0	10.3	7.0	5.8
1952	3.1	2.3	1.9	1.5	2.5	5.1	8.0	7.4	7.3	11.4	8.3	13.5	6.0
1953	6.9	4.7	2.6	2.4	4.9	3.9	8.8	8.0	9.3	17.0	18.8	9.0	8.0
1954	3.9	2.8	1.4	1.6	6.0	5.9	11.4	9.5	9.1	8.8	15.4	10.1	7.2
1955	8.4	2.8	1.6	1.1	1.7	3.9	4.8	9.2	5.6	8.2	14.4	8.1	5.8
1956	6.5	2.4	1.8	2.0	6.6	6.4	9.1	5.6	6.6	10.5	15.7	5.3	6.5
1957	0.9	0.5	0.4	0.3	0.5	0.5	0.5	0.6	1.3	5.2	11.5	4.0	2.2
1958	4.1	3.1	2.4	1.5	3.2	4.5	4.8	3.7	6.5	6.1	6.8	5.9	4.4
1959	2.6	1.6	1:1	1.0	1.9	3.5	3.3	4.1	8.0	9.9	16.8	26.0	6.7
1960	4.7	0.9	0.9	3.5	6.1	5.7	4.6	5.9	3.9	8.3	11.4	22.1	6.5
1961	2.8	1.6	1.1	1.1	2.5	8.9	7.1	6.8	8.2	12.7	15.7	8.0	6.4
1962	3.5	2.2	1.5	1.0	13.4	10.9	15.4	13.3	11.2	11.9	13.2	9.5	8.9
1963	9.7	2.9	1.6	1.3	7.5	13.3	12.2	19.6	15.3	18.8	34.1	6.2	11.9
1964	3.1	1.4	1.0	1.6	7.4	15.8	26.6	-1.0	-1.0	26.4	30.8	10.7	12.5
1965	4.6	3.3	2.0	1.1	5.6	-1.0	-1.0	11.1	-1.0	35.5	56.2	25.5	16.1
1966	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1971	7.1	3.2	2.7	2.0	2.5	3.8	8.4	9.3	6.4	10.1	12.9	4.3	6.1
1972	10.6	3.0	1.8	3.2	4.1	7.2	5.0	3.6	7.2	9.5	8.8	10.5	6.2

GATUN RIVER AT CIENTO (CNT)
MONTHLY FLOW IN M³/S

Lat. 09-18 N Long. 79-44 W Elev. 30.48 mPLD D.A. 117 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1973	5.4	4.0	1.2	0.9	4.5	9.5	10.1	11.1	12.1	5.7	21.0	9.3	7.9
1974	5.0	2.8	1.9	1.2	1.8	3.6	4.3	5.3	-1.0	12.6	19.0	9.2	6.1
1975	2.4	2.0	-1.0	0.7	-1.0	4.1	9.4	10.4	2.7	13.4	18.2	16.1	7.9
1976	4.4	2.2	1.4	1.6	2.1	3.2	0.6	2.1	6.8	9.8	13.4	5.1	4.4
1977	2.3	1.1	0.6	0.5	0.9	1.7	2.7	8.1	7.4	8.8	9.4	7.5	4.2
1978	3.0	2.5	1.7	4.7	5.2	6.5	9.5	11.3	8.4	7.4	15.9	8.1	7.0
1979	3.8	1.3	1.3	2.1	3.7	5.9	5.0	8.0	6.5	13.7	15.0	6.6	6.1
1980	7.1	3.7	2.1	1.6	4.7	7.6	3.7	5.1	4.6	7.9	9.4	8.6	5.5
1981	4.8	3.1	2.2	14.6	16.3	14.2	11.8	8.8	6.3	10.1	22.2	25.2	11.6
1982	9.0	5.7	3.3	2.6	2.3	5.6	6.2	4.0	5.3	11.5	8.7	3.9	5.7
1983	2.3	1.5	1.0	1.3	2.7	3.5	3.6	6.7	8.2	11.0	10.8	18.6	5.9
1984	7.2	2.3	1.1	0.8	1.4	4.6	7.9	18.3	13.9	13.5	19.3	9.3	8.3
1985	4.1	3.1	2.7	2.6	3.7	6.6	5.4	5.9	8.5	8.6	10.4	18.2	6.6
1986	3.7	2.4	1.6	2.6	3.0	4.9	4.4	3.7	6.7	14.3	8.8	3.8	5.0
1987	2.1	1.8	1.1	8.4	10.3	7.8	8.4	8.6	8.5	19.0	22.0	9.3	8.9
1988	3.1	1.9	1.0	0.8	2.8	2.6	10.5	14.2	11.7	20.5	11.3	9.3	7.5
1989	2.8	3.3	2.5	2.4	3.4	3.4	7.4	8.3	5.6	8.4	19.6	13.6	6.7
1990	7.1	3.6	3.4	2.6	4.9	-1.0	4.1	8.8	14.3	16.5	13.3	8.6	7.9
1991	3.4	2.9	2.8	3.2	6.4	4.1	4.8	4.8	7.8	7.2	13.5	6.1	5.6
1992	7.2	2.4	1.2	1.7	12.3	8.3	6.3	10.8	10.7	6.9	8.3	8.4	7.0
1993	5.5	4.3	4.6	5.7	4.0	6.7	9.9	5.6	9.9	12.9	14.0	7.2	7.5
1994	3.5	2.0	1.5	1.3	3.1	6.9	4.8	5.6	5.1	7.9	13.8	5.3	5.1
1995	3.6	1.9	1.3	1.4	3.2	7.0	9.3	9.6	7.8	6.6	15.3	11.0	6.5
1996	16.5	3.7	2.5	1.8	6.8	8.6	8.1	8.3	6.4	6.9	22.0	13.6	8.8
1997	3.7	2.4	1.2	0.9	3.6	4.4	2.4	1.9	4.4	4.7	8.0	3.4	3.4
1998	1.7	0.8	0.5	1.7	3.5	4.4	5.3	8.1	8.6	9.9	6.6	14.2	5.4
1999	3.6	1.3	0.9	1.1	4.4	8.9	9.1	11.4	6.1	11.1	18.4	29.9	8.8
2000	8.8	2.2	1.1	0.4	1.3	8.4	3.4	5.7	5.7	11.9	7.6	14.7	5.9
Mean	4.8	2.5	1.7	2.1	4.5	6.0	7.2	7.8	7.6	11.3	15.2	11.3	7.0
Max	16.5	5.7	4.6	14.6	16.3	15.8	26.6	19.6	15.3	35.5	56.2	29.9	16.1
Min	0.9	0.5	0.4	0.3	0.5	0.5	0.5	0.6	1.3	4.7	6.6	3.4	2.2

GATUN RIVER AT CIENTO (CNT)
MONTHLY FLOW IN M³/S

Lat. 09-18 N Long. 79-44 W Elev. 30.48 mPLD D.A. 117 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
Std	2.7	1.1	0.8	2.2	3.1	3.1	4.2	3.7	2.8	5.6	8.1	6.5	2.4
Skew	1.9	0.6	1.2	4.0	1.9	1.3	2.1	0.9	0.7	2.2	2.9	1.1	1.5
CV	0.6	0.4	0.5	1.1	0.7	0.5	0.6	0.5	0.4	0.5	0.5	0.6	0.3

Note : Missing flow in bold values.

TRINIDAD AT EL CHORRO (CHR)
MONTHLY FLOW IN M³/S

Lat. 08-59 N Long. 79-59 W Elev. 29.57 mPLD D.A. 173 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1941	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1942	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1943	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1944	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1945	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1946	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1947	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948	3.5	1.9	1.0	0.6	1.6	2.0	6.3	7.6	6.7	7.3	16.6	5.7	5.1
1949	2.3	1.0	0.6	0.5	1.8	10.3	9.7	10.5	15.9	13.0	23.0	17.1	8.8
1950	4.4	2.6	1.4	0.7	6.3	9.8	10.1	13.5	8.6	13.3	19.2	15.8	8.8
1951	5.0	3.4	1.7	1.2	5.7	6.2	7.1	9.0	11.2	9.7	12.0	7.8	6.7
1952	3.2	2.0	1.0	0.8	2.0	5.4	4.9	5.8	9.9	14.1	9.7	18.8	6.5
1953	7.5	3.4	1.7	1.2	6.7	6.2	5.7	4.2	5.9	11.5	11.9	6.4	6.0
1954	3.0	1.7	1.0	0.9	8.2	7.1	17.8	14.4	14.3	13.9	21.5	9.7	9.5
1955	10.1	3.2	1.6	1.1	2.1	8.2	7.0	11.0	13.0	15.2	21.9	10.9	8.8
1956	9.2	3.1	2.0	1.5	5.0	8.4	10.3	6.4	11.7	19.3	11.6	5.9	7.9
1957	2.6	1.5	0.9	0.5	2.2	2.6	2.5	5.2	5.4	13.7	9.9	5.4	4.4
1958	3.5	3.3	1.6	1.0	3.6	4.4	6.5	9.4	9.2	10.5	8.0	4.5	5.5
1959	2.4	1.3	0.7	0.6	1.1	2.7	2.8	3.6	4.3	13.4	9.2	11.7	-4.5
1960	5.4	2.2	2.3	2.8	6.9	7.4	7.3	7.5	6.6	10.7	15.0	25.6	8.3
1961	4.0	2.0	1.1	1.2	2.1	5.4	4.7	5.3	8.6	13.5	11.8	9.5	5.8
1962	3.3	1.8	1.0	0.9	1.4	2.2	3.0	7.8	6.7	9.1	9.5	7.1	4.5
1963	2.8	1.8	1.0	2.1	4.6	5.6	6.8	8.9	9.0	12.9	14.6	4.6	6.2
1964	2.3	1.2	0.8	0.9	3.4	11.4	11.3	11.5	13.9	15.0	17.7	5.2	7.9
1965	4.0	1.9	1.1	0.6	1.0	2.0	1.8	4.2	3.3	7.0	8.8	9.4	3.8
1966	3.2	1.5	1.0	1.1	6.7	9.2	7.4	-1.0	-1.0	14.2	19.2	14.6	6.3
1967	4.5	2.2	1.1	1.8	5.5	13.4	10.0	11.0	14.8	17.2	11.3	5.2	8.2
1968	2.4	1.7	1.1	1.0	2.7	8.0	5.9	8.4	8.9	15.2	14.7	6.9	6.4
1969	2.9	1.6	0.8	1.3	2.7	5.6	-1.0	-1.0	-1.0	11.7	12.8	7.7	3.7
1970	6.2	2.7	2.3	2.4	7.5	4.9	5.6	12.4	10.4	15.8	12.4	26.4	9.1
1971	11.1	3.8	2.1	1.6	6.5	9.8	8.3	12.2	13.5	15.0	17.9	5.0	8.9
1972	3.3	2.2	1.3	3.7	3.1	5.8	2.5	3.6	8.6	8.7	-1.0	3.6	3.8

TRINIDAD AT EL CHORRO (CHR)
MONTHLY FLOW IN M³/S

Lat. 08-59 N Long. 79-59 W Elev. 29.57 mPLD D.A. 173 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1973	2.0	1.2	0.6	0.6	2.4	10.3	10.7	8.5	15.5	17.3	20.7	9.9	8.3
1974	4.3	2.6	1.9	1.1	2.2	4.9	6.0	6.9	8.2	24.0	13.4	6.9	6.9
1975	3.0	1.7	1.1	0.7	2.0	4.0	5.9	11.6	16.3	18.1	28.1	14.6	8.9
1976	5.5	2.9	1.7	1.5	3.5	3.2	1.6	2.0	6.2	15.0	10.3	3.9	4.8
1977	2.4	1.5	0.9	0.7	2.0	3.0	2.9	6.7	7.7	14.8	10.9	5.9	4.9
1978	2.8	1.8	1.2	7.0	6.1	8.6	8.3	13.6	11.8	16.2	17.7	8.2	8.6
1979	3.6	2.1	1.4	2.4	3.7	6.4	6.9	9.9	11.2	13.5	8.2	7.0	6.4
1980	6.1	2.8	1.5	1.0	3.6	7.2	5.2	8.8	6.7	13.3	13.4	8.8	6.5
1981	5.8	4.0	3.2	7.3	12.4	13.9	12.9	13.5	11.3	15.3	18.1	13.7	10.9
1982	6.6	3.2	2.1	2.1	2.7	4.0	2.7	2.8	6.3	11.4	8.4	2.4	4.6
1983	1.7	1.1	0.7	0.5	2.3	3.3	2.1	2.9	10.4	8.2	7.7	8.0	4.1
1984	3.7	2.7	1.7	1.2	6.1	7.9	8.5	10.8	16.2	23.9	15.7	6.3	8.7
1985	3.5	2.1	1.4	1.0	2.6	4.5	3.3	-1.0	12.8	9.5	8.4	7.4	4.6
1986	3.3	1.9	1.3	2.7	2.9	5.9	4.6	4.4	5.3	16.9	14.4	5.4	5.7
1987	2.8	2.0	1.2	1.3	3.5	3.6	4.4	7.6	11.9	16.8	8.2	5.9	5.8
1988	2.5	1.5	0.9	0.9	4.7	4.7	6.5	10.1	13.5	14.1	11.6	8.0	6.6
1989	4.5	2.5	1.6	0.9	2.4	3.6	6.5	10.4	9.5	10.1	10.5	10.4	6.1
1990	4.6	2.5	1.6	1.1	3.2	7.2	7.4	7.7	15.0	17.6	13.6	11.3	7.7
1991	3.6	2.0	2.0	1.0	3.9	4.7	4.3	4.6	7.4	10.6	10.2	7.5	5.2
1992	3.0	1.7	1.0	1.2	3.4	7.2	5.2	6.7	14.5	10.5	9.5	6.4	5.8
1993	3.6	2.1	1.4	1.6	3.1	6.3	5.1	4.6	11.2	9.5	16.1	9.2	6.2
1994	3.5	2.2	1.5	1.0	3.3	4.3	3.4	3.3	7.7	12.7	11.0	4.8	4.9
1995	2.6	1.4	0.9	1.0	5.0	7.9	7.5	9.4	8.9	10.6	9.8	5.8	5.9
1996	15.6	4.6	3.6	2.1	6.3	10.0	11.6	15.2	15.0	16.9	12.8	10.5	10.4
1997	3.5	2.2	1.4	1.1	1.3	2.5	1.6	1.4	2.6	6.0	6.0	2.1	2.6
1998	1.2	0.8	0.5	0.5	1.5	2.0	4.8	5.1	5.5	10.4	8.6	10.4	4.3
1999	5.4	2.6	1.7	1.8	6.1	10.6	5.8	11.7	15.1	11.4	18.0	15.9	8.8
2000	7.7	3.7	2.0	1.6	3.8	6.0	5.4	7.7	10.1	9.0	9.6	6.6	6.1
Mean	4.3	2.2	1.4	1.5	3.9	6.3	6.3	8.0	10.1	13.3	13.3	8.9	6.6
Max	15.6	4.6	3.6	7.3	12.4	13.9	17.8	15.2	16.3	24.0	28.1	26.4	10.9
Min	1.2	0.8	0.5	0.5	1.0	2.0	1.6	1.4	2.6	6.0	6.0	2.1	2.6

TRINIDAD AT EL CHORRO (CHR)

MONTHLY FLOW IN M³/S

Lat. 08-59 N Long. 79-59 W Elev. 29.57 mPLD D.A. 173 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
Std	2.6	0.8	0.6	1.3	2.2	2.9	3.2	3.5	3.7	3.8	4.7	5.0	1.9
Skew	2.3	0.8	1.4	3.3	1.3	0.6	1.1	0.1	0.0	0.6	1.0	1.7	0.3
CV	0.6	0.4	0.4	0.9	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.6	0.3

Note : Missing flow in bold values.

CIRI GRANGE AT LOS CANONES (CAN)
MONTHLY FLOW IN M³/S

Lat. 08-57 N Long. 80-04 W Elev. 97.54 mPLD D.A. 186 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1941	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1942	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1943	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1944	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1945	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1946	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1947	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948	4.3	1.6	1.2	0.9	1.9	2.7	10.5	12.3	11.7	10.8	22.1	5.9	7.2
1949	2.4	1.4	0.9	0.8	2.6	15.0	10.4	13.1	18.7	17.7	31.2	24.5	11.6
1950	4.0	2.2	1.3	0.9	7.0	13.2	13.7	20.3	13.3	18.3	23.9	24.0	11.8
1951	7.3	4.0	2.2	1.4	7.2	8.9	8.2	9.0	15.5	13.1	19.9	11.3	9.0
1952	4.8	2.2	1.2	1.0	4.0	10.6	8.1	8.6	14.8	21.5	13.3	19.0	9.1
1953	14.1	5.3	2.7	1.9	8.6	7.7	7.4	6.1	7.6	22.5	22.6	12.1	9.9
1954	6.0	2.7	1.7	1.4	6.8	7.2	17.5	13.1	18.0	15.2	29.3	15.2	11.2
1955	16.4	4.9	2.4	1.9	3.8	15.3	10.8	18.1	22.2	19.1	29.6	16.8	13.4
1956	17.0	5.1	2.9	2.7	10.5	15.4	14.5	10.7	17.4	26.4	18.5	10.5	12.6
1957	4.1	2.0	1.3	0.9	4.2	4.2	4.1	8.3	9.1	21.4	13.9	11.1	7.0
1958	6.8	5.2	2.7	1.9	6.2	7.5	10.5	14.2	13.8	18.2	14.7	7.6	9.1
1959	-1.0	2.0	1.4	1.2	1.9	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1971	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1972	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0

CIRI GRANGE AT LOS CANONES (CAN)
MONTHLY FLOW IN M³/S

Lat. 08-57 N Long. 80-04 W Elev. 97.54 mPLD D.A. 186 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1973	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1974	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1975	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1976	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1977	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1978	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	16.0	16.7	19.2	16.3	9.4	15.5
1979	5.1	3.9	3.5	4.0	6.5	10.7	10.6	15.9	19.4	19.0	6.3	5.5	9.2
1980	10.7	3.7	2.0	1.4	5.4	10.9	8.0	19.2	9.0	15.4	15.6	12.6	9.5
1981	11.4	9.2	7.4	13.1	21.2	22.8	20.7	14.8	14.6	21.9	21.0	19.8	16.5
1982	7.9	3.5	2.3	2.6	4.6	7.5	6.3	4.7	8.7	17.1	12.6	3.8	6.8
1983	2.4	1.5	0.9	0.5	4.4	5.7	4.1	5.3	17.2	12.7	12.4	15.7	6.9
1984	-1.0	-1.0	2.3	1.4	6.4	12.2	10.9	17.1	16.7	17.4	-1.0	11.4	10.7
1985	-1.0	-1.0	1.3	0.9	2.5	7.1	3.1	12.6	20.8	14.9	-1.0	-1.0	7.9
1986	4.0	2.1	1.4	4.1	5.9	12.7	8.4	6.7	9.8	25.8	-1.0	-1.0	8.1
1987	2.8	1.9	1.1	1.7	5.3	5.4	7.7	12.8	14.0	24.3	10.1	8.0	7.9
1988	2.8	1.7	0.9	0.9	4.1	8.0	8.6	15.1	17.0	21.3	16.5	9.5	8.9
1989	6.7	3.5	2.3	1.2	4.8	5.5	10.1	14.7	13.7	16.0	16.2	10.5	8.8
1990	5.8	3.0	2.2	1.3	5.2	7.7	10.1	10.5	19.4	29.2	18.8	16.2	10.8
1991	3.8	1.9	2.4	1.2	4.6	6.1	4.7	5.6	11.0	18.0	14.2	11.3	7.0
1992	3.3	1.7	1.2	1.6	6.5	11.6	8.3	13.2	15.1	12.3	11.3	7.3	7.8
1993	4.4	2.9	2.1	2.0	4.9	10.3	7.5	6.3	13.8	14.6	22.0	12.6	8.6
1994	4.6	2.2	1.6	1.4	5.0	8.0	5.8	4.5	9.7	13.9	14.3	5.0	6.3
1995	2.9	1.6	1.0	1.3	7.8	12.8	10.3	11.2	11.6	13.0	12.6	8.6	7.9
1996	22.6	6.9	5.1	2.7	7.9	12.0	18.0	22.3	17.5	23.0	15.5	-1.0	13.9
1997	5.6	3.3	1.7	1.2	2.0	3.6	2.9	2.4	6.0	7.9	9.6	4.1	4.2
1998	2.3	1.6	0.7	0.9	2.6	4.7	8.4	6.8	9.6	15.3	8.8	13.3	6.3
1999	6.8	3.5	2.6	2.9	9.2	13.2	8.8	20.9	27.3	13.2	20.4	26.7	12.9
2000	11.6	4.2	2.2	1.8	7.2	16.4	9.6	9.9	12.4	9.5	12.5	10.1	8.9
Mean	6.9	3.2	2.1	2.0	5.8	9.8	9.4	11.8	14.5	17.6	17.0	12.2	9.3
Max	22.6	9.2	7.4	13.1	21.2	22.8	20.7	22.3	27.3	29.2	31.2	26.7	16.5
Min	2.3	1.4	0.7	0.5	1.9	2.7	2.9	2.4	6.0	7.9	6.3	3.8	1.6

CIRI GRANGE AT LOS CANONES (CAN)
MONTHLY FLOW IN M³/S

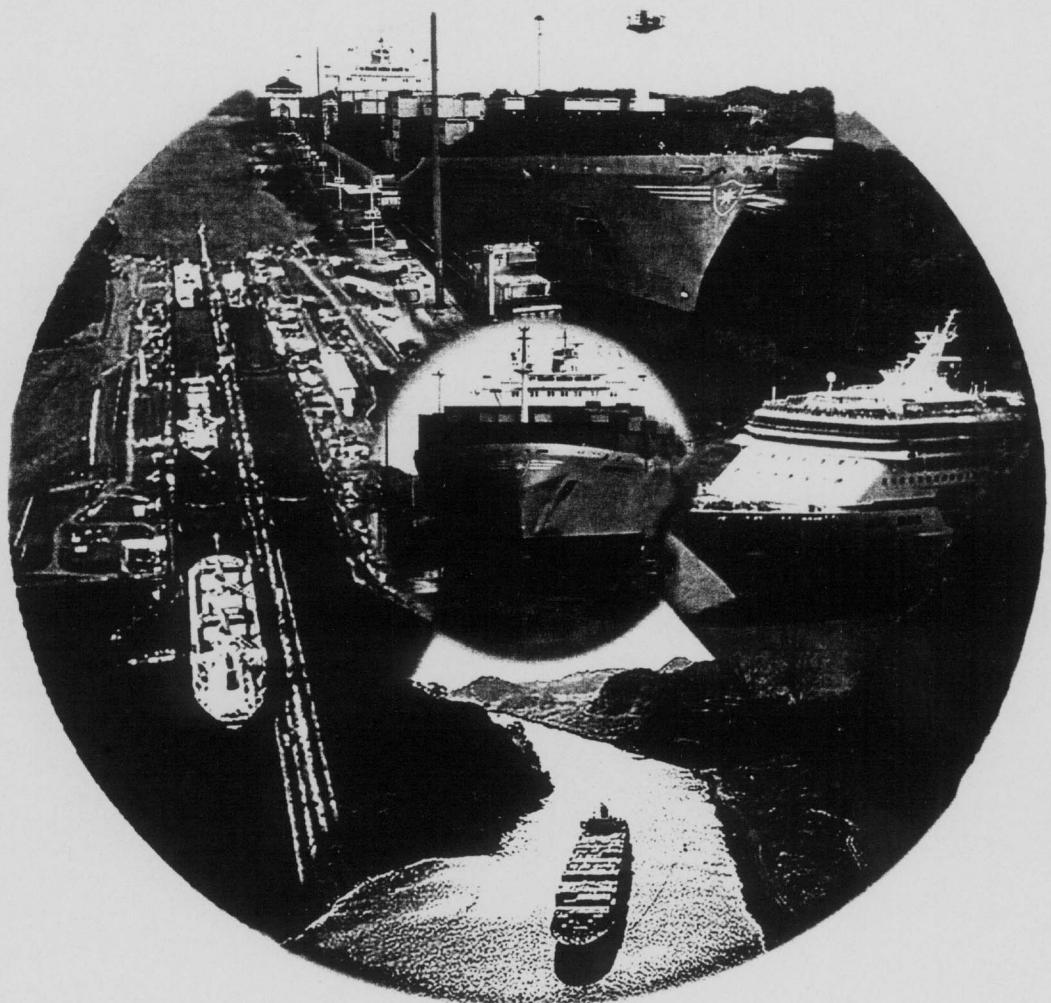
Lat. 08-57 N Long. 80-04 W Elev. 97.54 mPLD D.A. 186 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
Std	5.0	1.8	1.3	2.1	3.4	4.4	4.0	5.2	4.6	5.0	6.1	5.9	3.0
Skew	1.6	1.6	2.5	4.5	2.7	0.7	0.9	0.2	0.4	0.3	0.7	0.9	0.2
CV	0.7	0.5	0.6	1.1	0.6	0.4	0.4	0.4	0.3	0.3	0.4	0.5	0.3

Note : Missing flow in bold values.

Appendix C

Inventory of Meteorological and Stream Gauging Stations



INVENTORY OF HYDROMETEOROLOGICAL STATIONS OPERATED AND MAINTAINED BY ACP

Introduction

Autoridad Del Canal De Panama (ACP) is operating and maintaining a number of hydrometric and meteorological stations in Gatun Lake watershed. There are seven stream gauging stations, three river stage recording stations and nine lake level recording gauges. Meteorological stations include thirty-four rainfall stations and seven climatological stations.

The stations pertinent to this study are discussed in this inventory. This excludes the river stage and lake level recording stations, and one stream gauging station located on the Chagres River at Alhajuela. Tables 1 and 2 show the names of meteorological and stream gauging stations, respectively, with periods of record.

In addition to the above hydrometeorological networks, ACP is operating and maintaining rainfall and stream gauging stations on Indio River, Cocol del Norte River and Toabre River at Toabre. These stations were started in the year 2000.

This inventory includes a review of methodology being used by ACP for the collection and reduction of hydrometeorological data and history of each station. For meteorological stations the date of installation, instrumentation, change in location and environment, and period of record are discussed under the station history. The station history for the stream gauging stations includes date of installation, instrumentation, change in location and environment, hydraulic characteristics defining the stage-discharge relationship and period of record.

Site photographs obtained from ACP are presented at the end of the text.

Review of Methodology

Rainfall Stations

Two types of rain gauges are installed nearly on all stations, a tipping bucket rain gauge of 12-inch collector diameter from Novalynx and a storage type gauge also of 12-inch collector diameter. Both gauges are installed on the roof of instrumentation house. Initially, the sensitivity of a tipping bucket rain gauge was 0.25 mm (0.01 inches) per tip. This sensitivity is good for rainfall intensity between 0.5 to about 2.0 inches per hour. Since the rainfall intensity in Gatun watershed often exceeds 2.0 inches per hour, the 0.25 mm per tip rain gauges did not work properly. Very often, the rainfall rate was higher than the tipping rate and, therefore, the recorded rainfall was less than the actual rainfall amount. To avoid this situation, ACP introduced a storage gauge that could be connected to a telemetric system. The gauge was designed by a meteorologist of ACP in late 1960's. The 12-inch collector, installed on the roof is connected to a storage tank inside a

shelter through copper tubing. The internal diameter of the tank is about 10.95 inches. The tank is 4 feet high with a valve, centered about 6 inches above the bottom of the tank, to drain the water.

A float connected through a tape with counter weight operates a pulley with the rise of water level in the storage tank. The movement of the pulley is recorded by an encoder for transmission via a telemetric system. Another shaft connects the pulley for an on-site digital record of rainfall. Resolution of the float system is about 0.01 foot or 0.12 inches of rainfall. The rainfall is recorded at a 15-minute interval. There are some maintenance problems with this gauge, especially setting storage tanks to zero whenever the tanks are drained off.

Because of better rainfall data encoding and transmission via a telemetric system and also problems with storage gauges, ACP has been trying to improve the performance of tipping bucket rain gauge. Therefore, in 1986-87, ACP attempted to introduce tipping bucket rain gauges (from Sierra-Misco) again. Rainfall observations were made simultaneously using tipping bucket rain gauge of 0.01-inch resolution and the storage gauge of 0.12-inch resolution at a number of stations. The simultaneous observations were continued for about two years. The signal from tipping bucket was divided into two signals at the terminal strip, one going into data storage devise from HANDAR (on site record) and the other signal going into the Climatronics telecommunication hub installed by SUTRON. The hub sends the data via microwave to ACP Administrative Building in Balboa. A report was prepared in 1988 to summarize the results. It was concluded that the tipping bucket gauges was not the best gauge to measure rainfall of intensity greater than 3 inches per hour, which is common in Gatun watershed. The main problem was the overflowing of water under intense rain. This excess water flowed down the terminal strip causing the instruments to relay false tips. There were also differences in the data recorded at site by the HANDAR equipment and the data transmitted Administrative Building in Balboa. The use of storage gauges was recommended to be continued with some improvements. Currently, these gauges are also connected to the telecommunication system.

In 1996, ACP again installed rain gauges with a resolution of one mm per tip. Simultaneous observations are being made on both gauges. The rainfall data from the tipping bucket gauges are reported to be compatible with that from the storage gauges. Table 3 shows a comparison of rainfall measured at rain gauge stations for the year 2000 where the data were complete for both gauges.

Most of the time the rainfall amounts recorded by the two gauges were nearly same. But, in some months the differences were quite significant. In case of differences, the ACP meteorologist decides to use one or the other record through a review of nearby gauges and based on his experience with the instruments.

The above procedure is reasonable and may be continued if desired by ACP. However, based on the simultaneous observation over more than a year, it is recommended to use only tipping bucket rain gauge of one mm per tip. To provide a check on the operation of

this gauge, a standard non-recording rain gauge of 12-inch diameter with sufficient capacity to hold rainfall for about two weeks during rainy period, should be used. The rainfall collected in the non-recording gauge should be measured in the middle and at the end of the month. Apart from providing a check on the working of tipping bucket rain gauge, this will give good quality monthly rainfall data.

Stream Gauging Stations

The instrumentation at these stations is well maintained. Hydraulic conditions at the stations are reasonably good. The stage-discharge relationships (rating curves) are controlled by the channel conditions. Nearly at all sites the channel controls are likely to change depending upon the magnitude of a flood. The rating curves for the previous years show significant change from year to year.

Method of discharge measurements is satisfactory and provides reasonably fair to good measurements but does not follow the standard discharge measuring procedures of the United States Geological Survey, Water Resources Division (USGS). It is recommended that the discharge measurements should be made using the following procedures.

- Depth and velocity observations should be made at 20 to 25 verticals. The number of verticals may be restricted due to relatively narrow stream widths. Minimum distance between two verticals should be one meter (not less than one meter) when making a measurement from a cableway. When wading measurements are made, the minimum distance should be 0.5 meter.
- Currently discharge measurements are made from cableway for low and high flows. Measurements during low flow (up to a depth at which a measurement can be made safely), must be made by wading.
- Proper sounding weights should be used to avoid vertical angle, and air-line and wet-line corrections to the observed depth. If a proper weight is not available at the site, the air-line correction should be avoided using tags on the sounding line. This method is explained in USGS Water Supply Paper 2175, Volume 1 (Rantz and others, 1982).
- Preparation of rating curves was checked during the field visit. The procedure used are reasonable but should be improved to follow the guidelines given in Volume 2 of Water Supply Paper 2175.

From the date when a rating curve becomes applicable up to date when sufficient number of discharge measurements become available to revise the previous rating curve, the daily discharges should be computed using the concept of shift adjustment (Chapter 10, Volume 2, Water Supply Paper 2175).

AGUA CLARA

Location

The station is located in the province of Colon at latitude 09°21'52" north and longitude 79°42'22" west. The altitude of the station is about 460.0 meters above mean sea level. The station is accessible by road.

Station Code 50

Station ID ACL

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

A non-recording standard rain gauge was installed at Agua Clara on May 01, 1910 on the Atlantic Slopes. The gauge was located at latitude 9°17' north and longitude 79°54' west. The elevation of the station was about 31 meters. The station was continued up to January 31, 1927. The gauge was observed daily in the evening. The data was discontinuous.

An automatic float gauge was installed at the current location on April 17, 1941. The details of this gauge are not available. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

May 1910 to June 1921	January- February 1965
December 1921 to January 1927	May-July 1965
June 1945 to August 1947	October 1965
November 1947 to August 1963	January 1966 to July 1971
October-November 1963	October 1971 to date
January-April 1964	

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Agua Clara

C-5



ALHAJUELA

Location

The station is located in the province of Colon at latitude 09°12'23" north and longitude 79°37'14" west. The altitude of the station is about 39.5 meters above mean sea level. The station is accessible by road.

Station Code 55

Station ID ALA

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

A non-recording standard rain gauge was installed on July 01, 1899 at this location. The gauge was operated up to March 30, 1907. The gauge was observed daily in the evening. A tipping bucket rain gauge was installed on March 31, 1907.

An automatic storage gauge was installed in late 1960's and simultaneous observations of tipping bucket and storage gauges were started.

Period of Record

July 1899 to April 1904

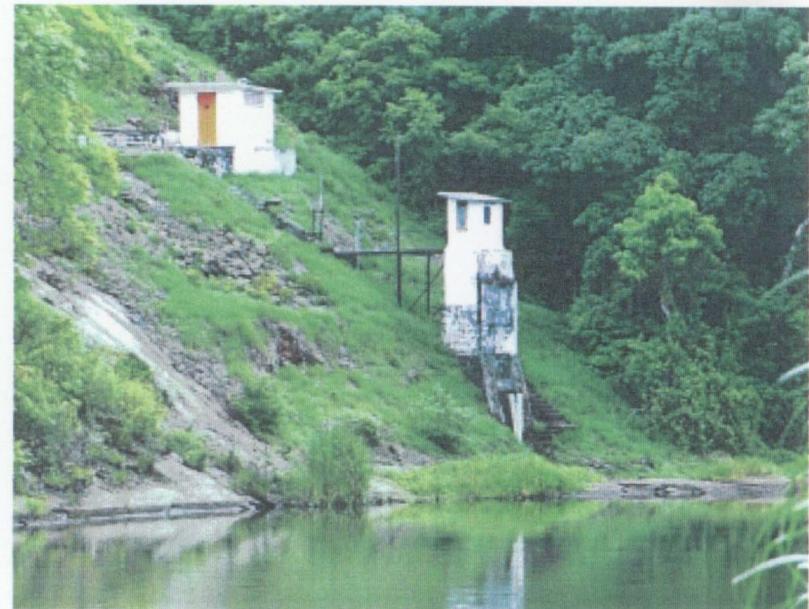
June 1904 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was visited. The exposure was judged to be satisfactory.

Alhajuela

C-7



ARCA SONIA

Location

The station is located in the province of Panama at latitude 09°11'36" north and longitude 79°30'54" west. The altitude of the station is about 265.0 meters above mean sea level. The station is accessible by road.

Station Code 77

Station ID ARC

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in 1999.

Period of Record

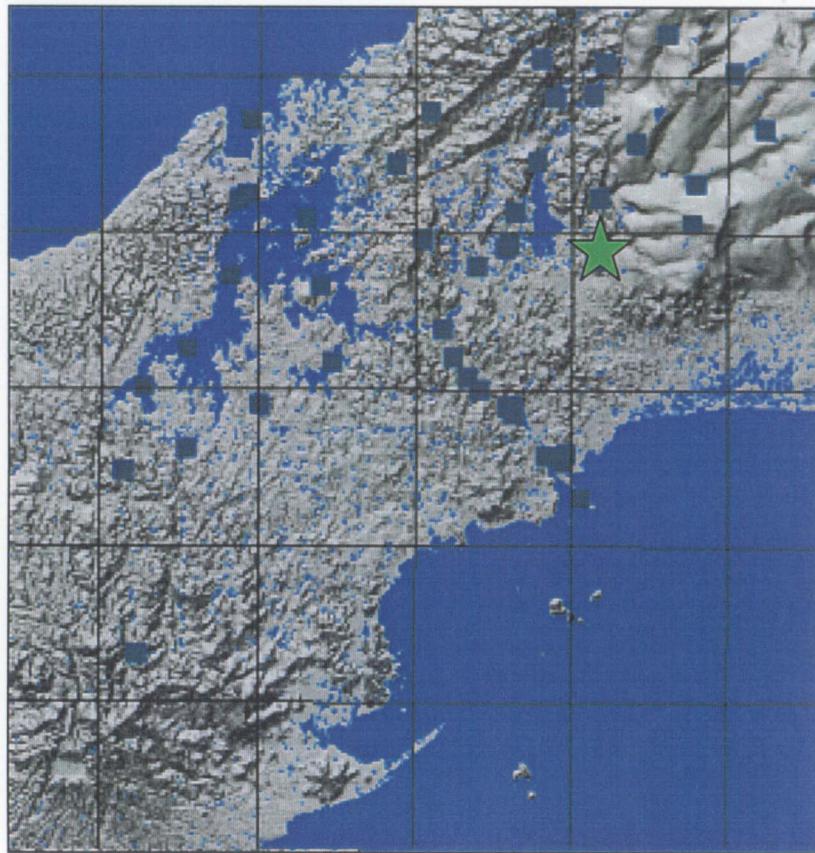
March 1999 to date

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Arca Sonia

C-9



BALBOA HEIGHTS

Location

The station is located in the province of Panama at latitude 08°57'34" north and longitude 79°33'15" west. The altitude of the station is about 30.5 meters above mean sea level. The station is accessible by road.

Station Code 60

Station ID BHT

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

A non-recording standard rain gauge was installed at nearly present location (named as Panama gauge) on January 01, 1879. The gauge was continued up to December 31, 1882. Again on July 01, 1898, Panama non-recording gauge was reestablished and continued up to December 31, 1901. The gauge was observed daily in the evening. The location of the gauge was slightly shifted (practically same latitude and longitude), gauge was named as Ancon gauge, and an automatic tipping bucket gauge was installed on June 01, 1905. The Ancon gauge was continued up to September 30, 1914 when it was slightly shifted to present location and renamed as Balboa Heights gauge.

Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

January 01, 1879 to December 31, 1882

July 01, 1898 to December 31, 1901

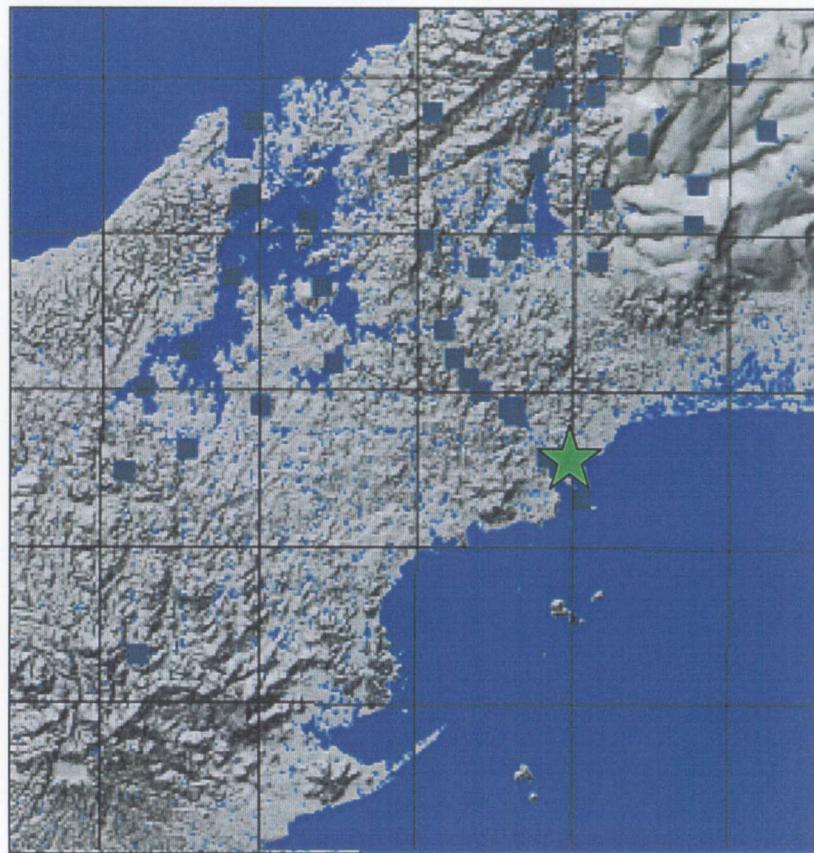
June 01, 1905 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was visited. The exposure is satisfactory.

Balboa

C-11



BORRO COLORADO

Location

The station is located in the province of Colon at latitude 09°09'55" north and longitude 79°50'11" west. The altitude of the station is about 33.5 meters above mean sea level. The station is accessible by boat.

Station Code 04

Station ID BCI

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

A non-recording standard rain gauge was installed on April 01, 1925. The gauge was continued up to October 30, 1930, and was observed daily in the evening.

An automatic tipping bucket gauge was installed November 01, 1930. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

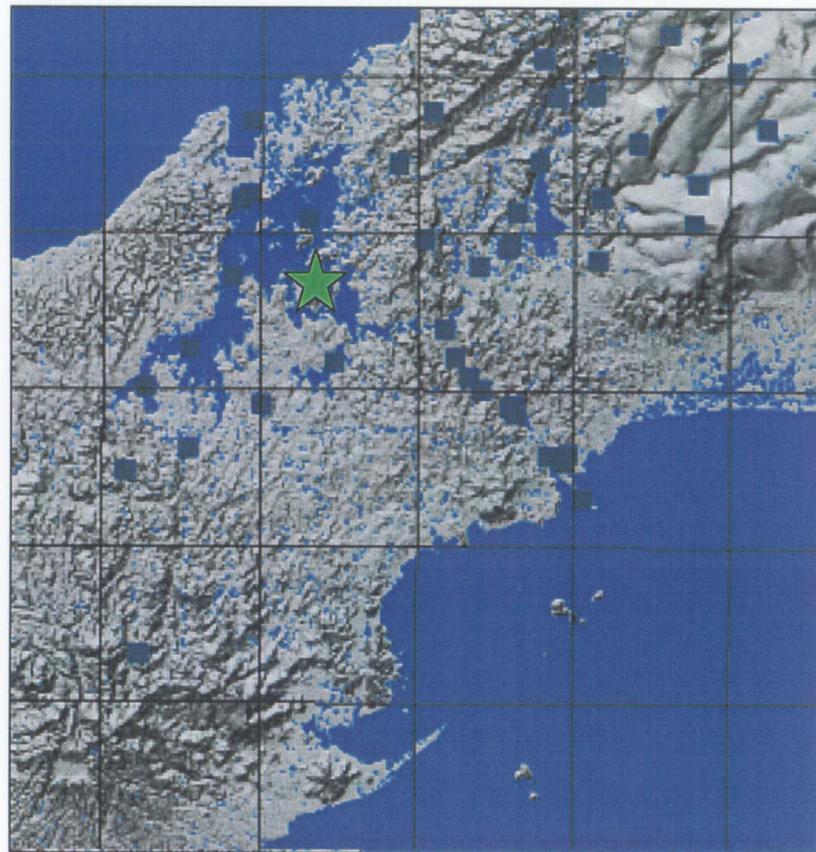
April 1925 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

BCI

C-13



BALBOA DOCKS

Location

The station was closed in February 1983 and was located in the province of Panama at latitude 08°57' north and longitude 79°34' west. The station was accessible by road.

Station Code

Station ID

Instrumentation

The station was closed in February 1983.

Installation

A non-recording standard rain gauge was installed on May 01, 1881 as La Boca gauge (same latitude and longitude as of Balboa Docks). The station was continued up to June 09, 1906 with some interruptions in the data. The gauge was observed daily in the evening.

An automatic tipping bucket rain gauge was installed at Balboa Docks on June 10, 1906 and continued up to February 1983.

Period of Record

May 01, 1881 to December 31, 1883
June 01, 1894 to August 31, 1895
September 01, 1899 to April 30, 1904
January 01, 1905 to February 1983

Exposure

The station was not visited.

BALBOA FAA

Location

The station is located in the province of Panama at latitude $08^{\circ}58'08''$ north and longitude $79^{\circ}32'58''$ west. The altitude of the station is about 10.0 meters above mean sea level. The station is accessible by road.

Station Code 63

Station ID FAA

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa. The station is also equipped with a climatic data monitor including wind velocity, wind direction, gust, relative humidity, air temperature, solar radiation and barometric pressure.

Installation

The storage and tipping bucket rain gauges were installed in April 1978.

Period of Record

April 1978 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

FAA

C-16



CANDELARIA

Location

The station is located in the province of Colon at latitude 09°22'58" north and longitude 79°30'59" west. The altitude of the station is about 97.5 meters above mean sea level. The station is accessible by road.

Station Code 51

Station ID CDL

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic float type gauge was installed on September 01, 1933. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

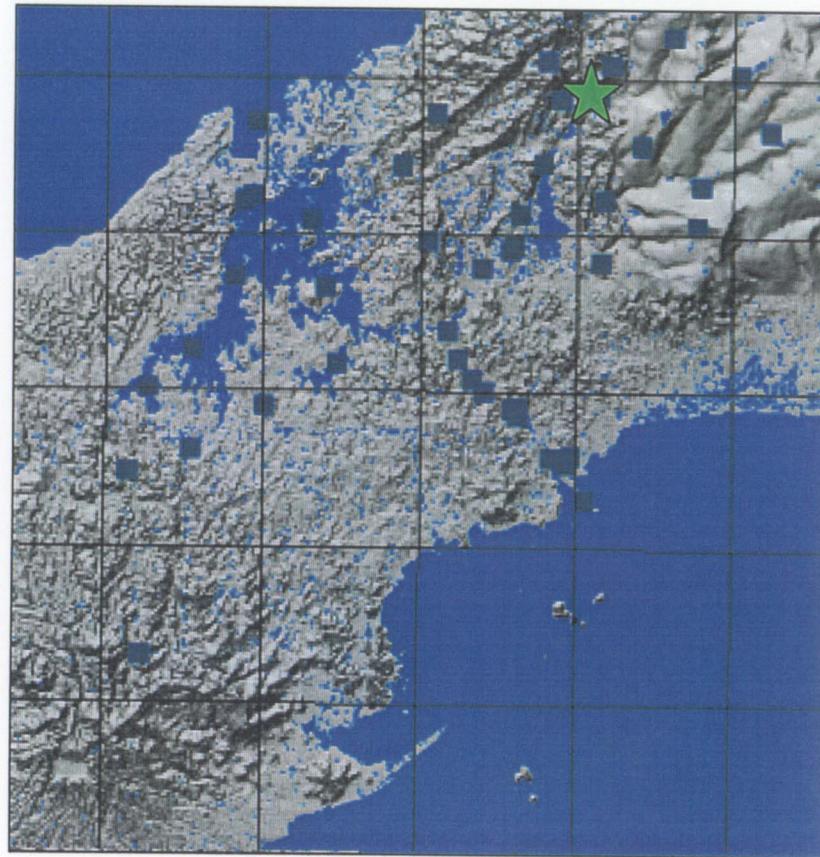
September 1933 to April 1934
July 1934 to January 1962
November-December 1962
February 1963 to July 1963
November 1963 to May 1964
October 1964 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Candelaria

C-18



CANO

Location

The station is located in the province of Panama at latitude 09°04'35" north and longitude 79°49'22" west. The altitude of the station is about 33.0 meters above mean sea level. The station is accessible by road.

Station Code 59

Station ID CNO

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic 14-day storage gauge was installed in 1910 and continued up to 1912. The data was not considered reliable. On April 01, 1912, a standard non-recording gauge observed twice a month was installed and continued up to December 31, 1921. From January 1922, the observations were made on a monthly basis up to July 31, 1938. An Automatic float type gauge was installed on August 01, 1938 and continued up to August 1959. The station was started again in early 1970's with current instruments and continued to date.

Period of Record

January 1912 to June 1959

February 1970

May-August 1970

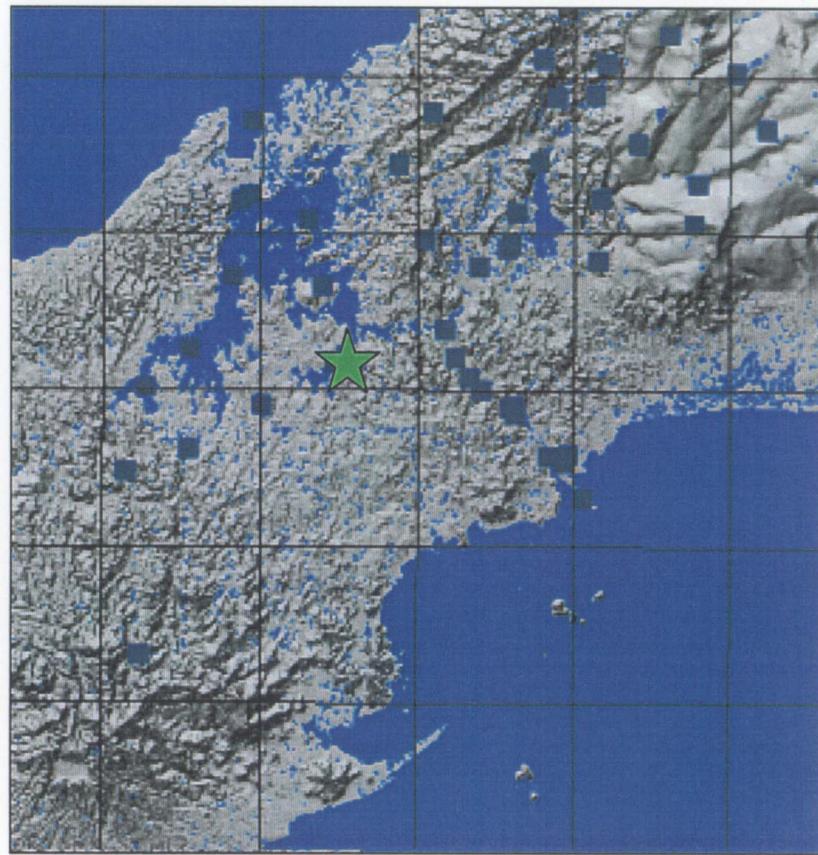
February 1971 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Caño

C-20



CERRO CAMA

Location

The station is located in the province of Panama at latitude 09°01'36" north and longitude 79°54'21" west. The altitude of the station is about 120.0 meters above mean sea level. The station is accessible by road.

Station Code 78

Station ID CCA

Instrumentation

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in April 2000.

Period of Record

April 2000 to date

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

CHAMON

Location

The station is located in the province of Panama at latitude 09°20'31" north and longitude 79°19'06" west. The altitude of the station is about 640.0 meters above mean sea level. The station is accessible by road.

Station Code 79

Station ID CHM

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in December 1999.

Period of Record

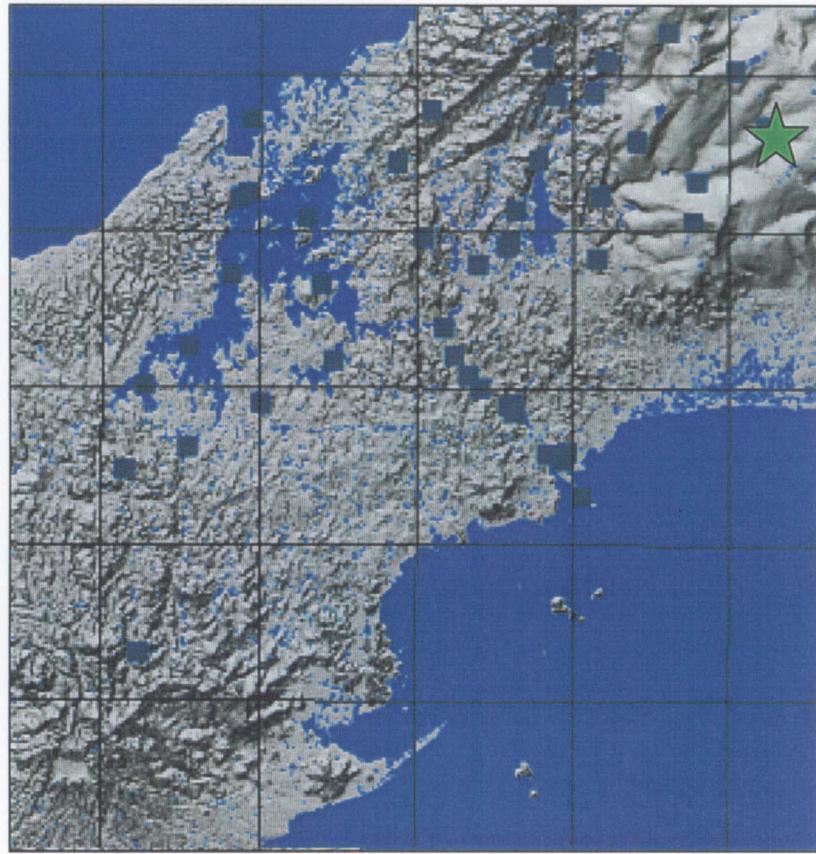
January 2000 to date

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Chamon

C-23



CHICO

Location

The station is located in the province of Panama at latitude $09^{\circ}15'49''$ north and longitude $79^{\circ}30'35''$ west. The altitude of the station is about 103.5 meters above mean sea level. The station is accessible by road.

Station Code 53

Station ID CHI

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic tipping bucket rain gauge was installed on October 01, 1932. This type of gauge was continued up to June 30, 1933. On July 01, 1933, an automatic float type gauge was installed. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

October 1932 to February 1933

April 1933 to January 1962

October-December 1964

April 1966 to April 1967

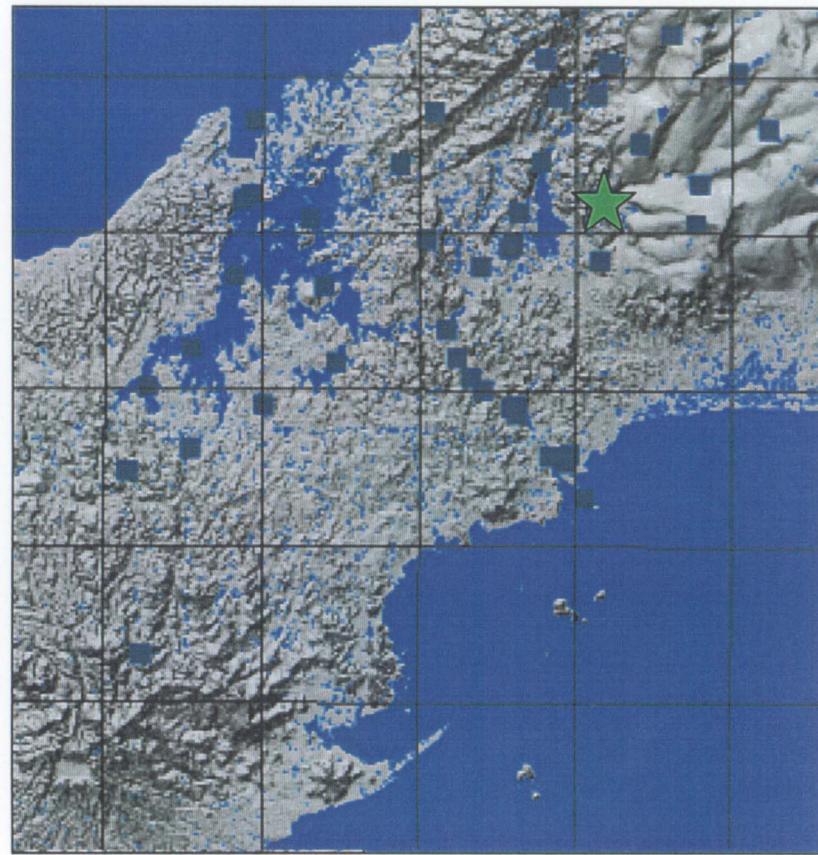
July 1967 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Chico

C-25



CIENTO

Location

The station is located in the province of Colon at latitude 09°17'52" north and longitude 79°43'41" west. The altitude of the station is about 38.0 meters above mean sea level. The station is accessible by road.

Station Code 52

Station ID CNT

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic float type gauge was installed on April 29, 1947. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

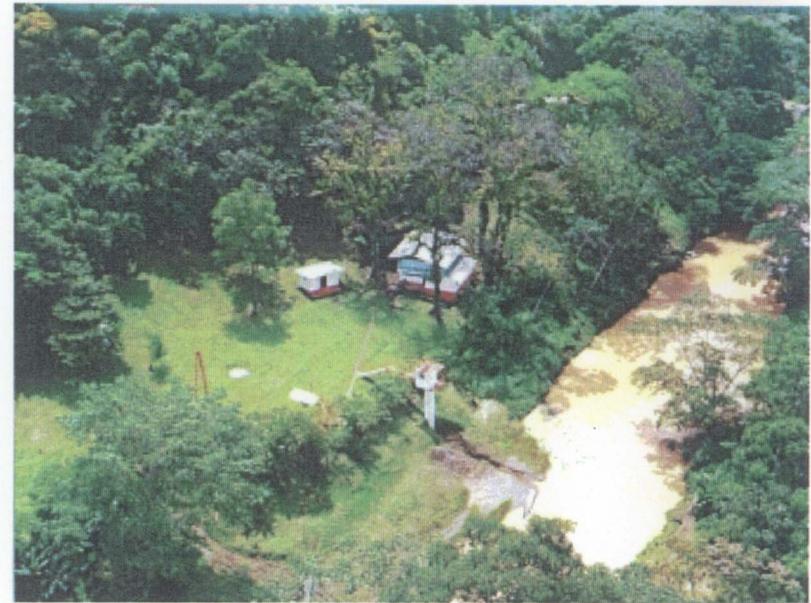
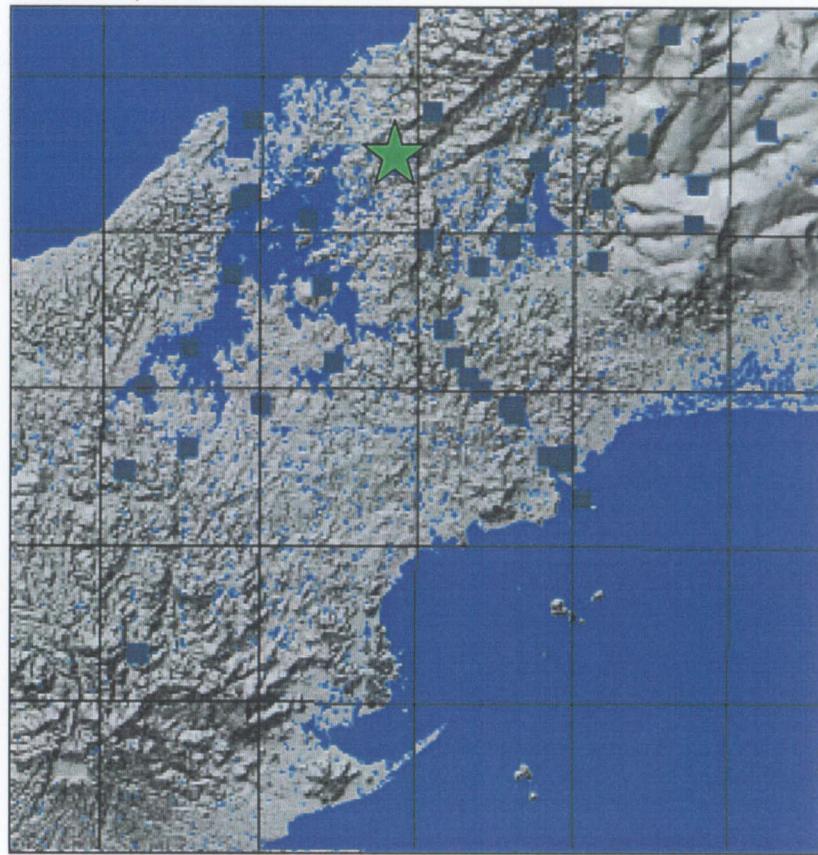
April 1947 to September 1962	January 1966
January-September 1963	April 1966
November-December 1963	June-July 1966
January 1964	October 1966 to April 1971
March-May 1964	June 1971 to February 1974
October-November 1964	May 1974 to date
September-December 1965	

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Ciento

C-27



CHORRO (EL CHORRO)

Location

The station is located in the province of Panama at latitude $08^{\circ}58'32''$ north and longitude $79^{\circ}59'25''$ west. The altitude of the station is about 42.5 meters above mean sea level. The station is accessible by road.

Station Code 48

Station ID CHR

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic float gauge was installed at the current location on August 07, 1947. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

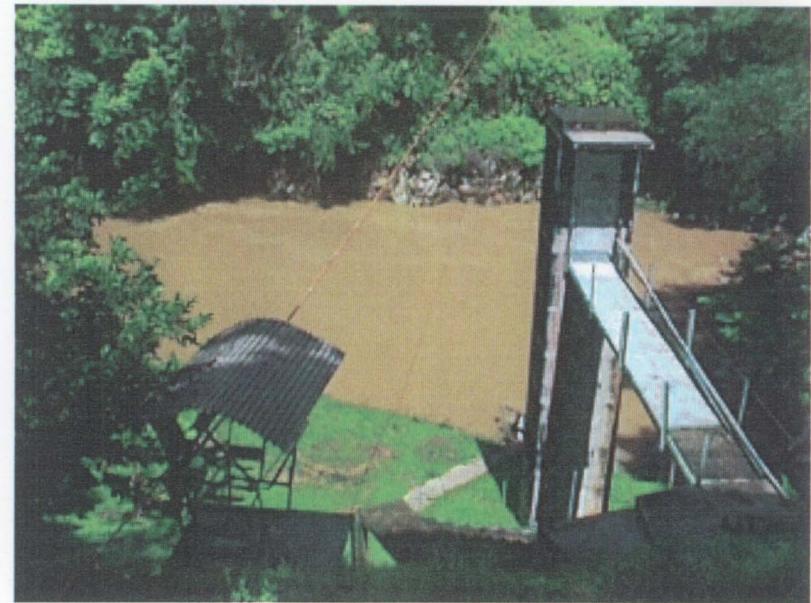
September 1947 to July 1960	January-March 1965
November 1960 to September 1963	May 1965 to August 1966
December 1963	October 1966
January 1964	December 1966 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Chorro

C-29



CASCADAS (LAS CASCADAS)

Location

The station is located in the province of Panama at latitude 09°04'53" north and longitude 79°40'48" west. The altitude of the station is about 47.0 meters above mean sea level. The station is accessible by road.

Station Code 30

Station ID CAS

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

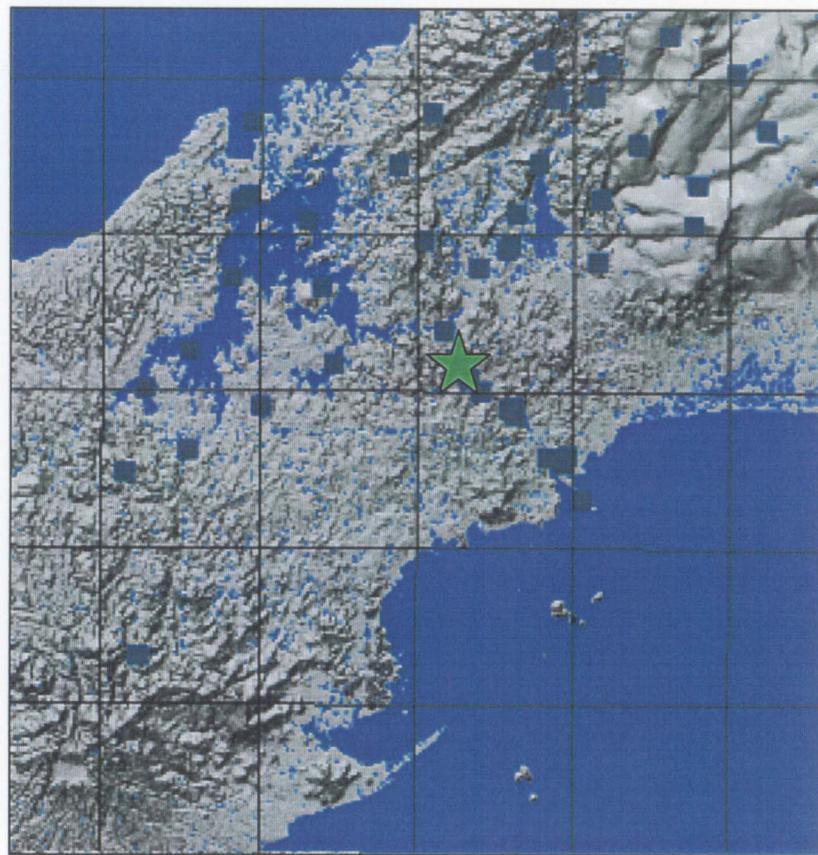
February-October 1967	April-October 1970
December 1967	April-July 1971
January-February 1968	September-October 1971
July 1968 to March 1969	December 1971 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Cascadas

C-31



CANONES (LOS CANONES)

Location

The station is located in the province of Panama at latitude $08^{\circ}56'56''$ north and longitude $80^{\circ}03'45''$ west. The altitude of the station is about 103.5 meters above mean sea level. The station is accessible by road.

Station Code 21

Station ID CAN

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic float gauge was installed at the current location on August 21, 1947. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

September 1947 to July 1959

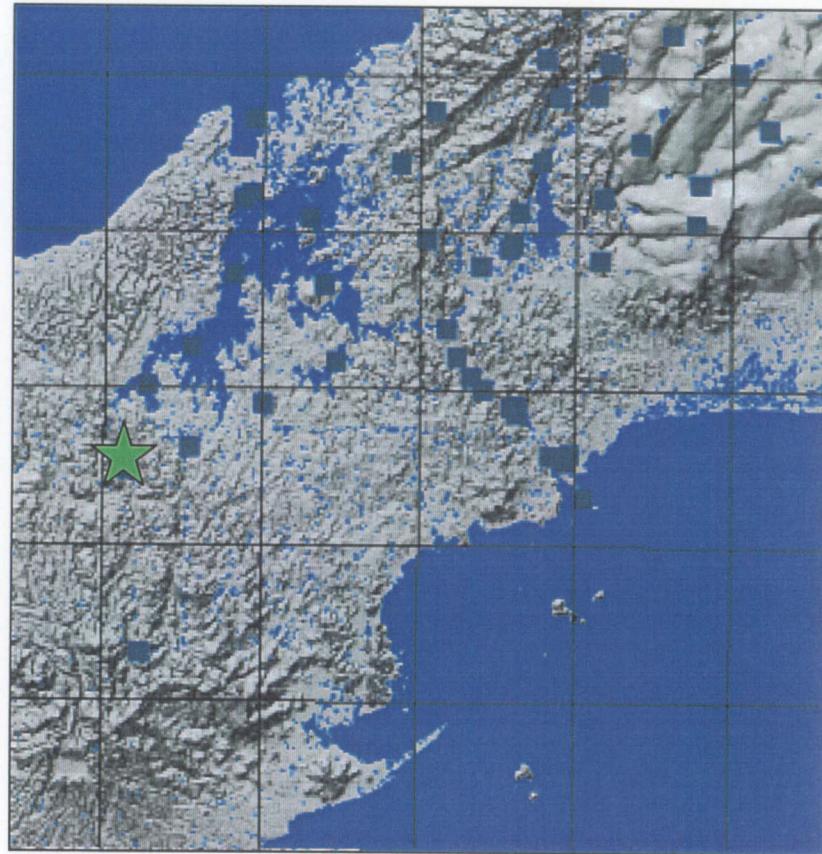
March 1978 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Cañones

C-33



CRISTOBAL / COCO SOLO / LIMON BAY

Location

The stations at Cristobal (latitude 09° 21' and longitude 79°54') and Coco Solo (latitude 09°22' and longitude 79°53') were closed in 1979 and 1995, respectively. The station at Coco Solo was the replacement of Cristobal. Both stations were located close to each other in the province of Colon. The station at Limon Bay is the replacement of Coco Solo. The station is located close to the locations of Cristobal and Coco Solo at latitude 09°21'20" north and longitude 79°54'53" west. The altitude of the station is about 3.0 meters above mean sea level. The station is accessible by road.

Station Code 70

Station ID LMB

Instrumentation

The Lemon Bay station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa. The station is also equipped with sensors for wind velocity, wind direction, gust, relative humidity, air temperature, solar radiation, and barometric pressure.

Installation

A non-recording standard rain gauge was installed at Cristobal on October 1862 and continued up to September 30, 1905 with some interruptions. The gauge was observed daily in the evening. On October 01, 1905, an automatic tipping bucket rain gauge was installed that continued up to September 1979. At Coco Solo both tipping bucket and storage type gauges were operated up to 1995. These instruments were shifted to Limon Bay.

Period of Record

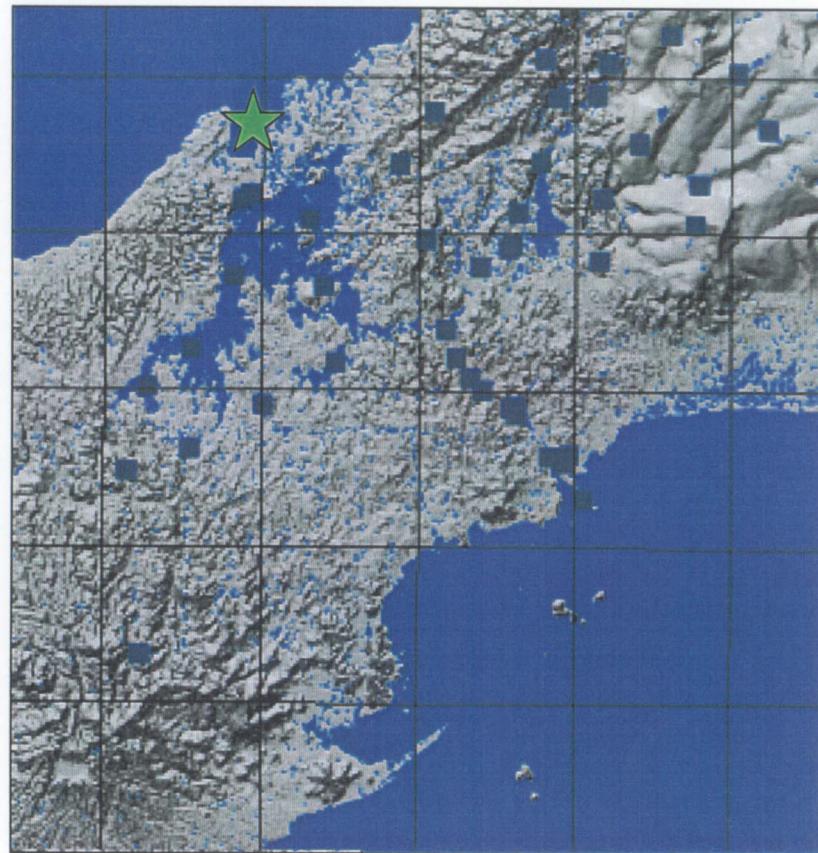
Cristobal	March 1881 to March 1888; January 1890 to September 1979
Coco Solo	September 1980 to December 1995
Limon Bay	January 1999 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Limon Bay

C-35



DIABLO HEIGHTS

Location

The station is located in the province of Panama at latitude $08^{\circ}57'56''$ north and longitude $79^{\circ}34'24''$ west. The altitude of the station is about 4.5 meters above mean sea level. The station is accessible by road.

Station Code 06

Station ID DHT

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

Simultaneous observations of tipping bucket and storage gauges were started in January 1983.

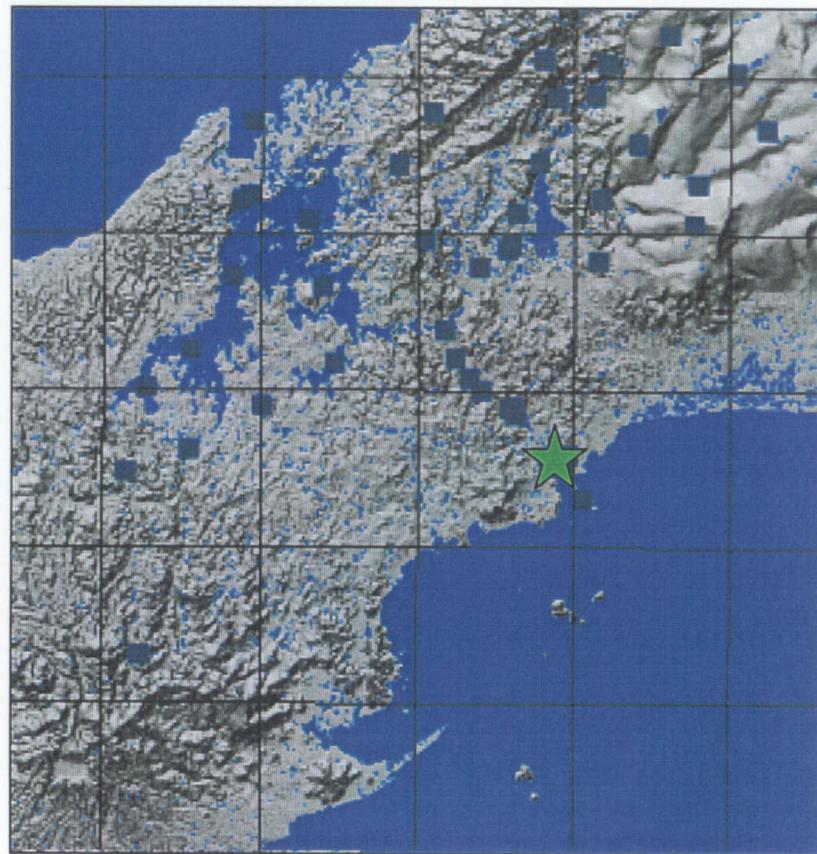
Period of Record

January 1983 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Diablo



DOS BOCAS

Location

The station is located in the province of Panama at latitude 09°27'09" north and longitude 79°25'52" west. The altitude of the station is about 228.0 meters above mean sea level. The station is accessible by boat.

Station Code 81

Station ID DBK

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in April 2000.

Period of Record

May 2000 to date

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

EMPIRE HILL

Location

The station is located in the province of Panama at latitude 09°03'29" north and longitude 79°39'53" west. The altitude of the station is about 61.0 meters above mean sea level. The station is accessible by road.

Station Code 64

Station ID EMH

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

A non-recording standard rain gauge was installed on April 01, 1883. The observations were discontinued September 1883 but restarted in June 1905. The gauge was observed daily in the evening. The non-recording gauge was replaced with an automatic tipping bucket rain gauge in July 1906. This gauge continued up to March 1927.

A new tipping bucket gauge was reinstalled in January 1961. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

April-June 1883

August-September 1883

December 1883

June 1905 to March 1927

January 1962 to September 1964

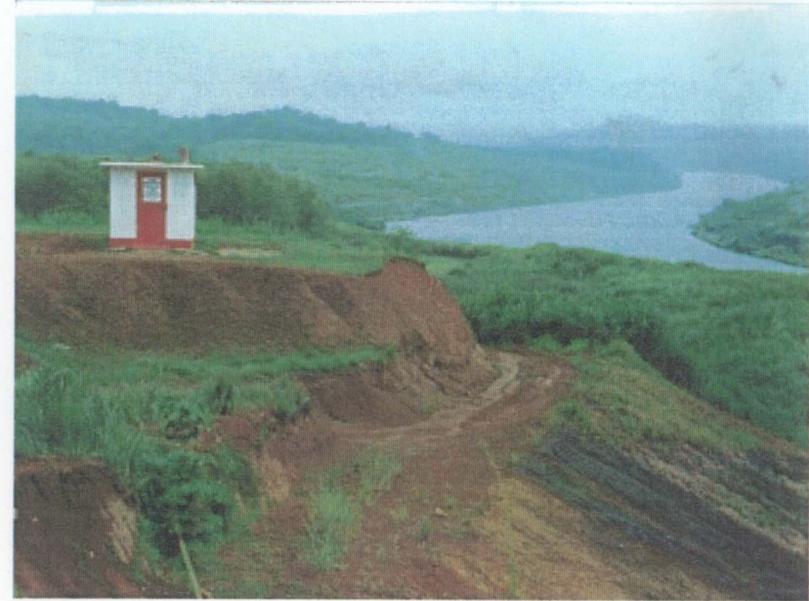
December 1978 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Empire

C40



ESCANDALOSA

Location

The station is located in the province of Colon at latitude 09°25'25" north and longitude 79°34'42" west. The altitude of the station is about 480.0 meters above mean sea level. The station is accessible by road.

Station Code 14

Station ID ESC

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic float gauge was installed at the current location in January 1948. The details of this gauge are not available. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

January-April 1948	May-December 1965
October 1948 to November 1959	March 1966
June 1960	June-August 1966
January 1961 to April 1962	November 1966 to April 1969
December 1962 to January 1965	March 1970 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Escandalosa

C.42



ESPERANZA

Location

The station is located in the province of Panama at latitude $09^{\circ}24'35''$ north and longitude $79^{\circ}21'08''$ west. The altitude of the station is about --- meters above mean sea level. The station is accessible by road.

Station Code 71

Station ID EZA

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in December 1998.

Period of Record

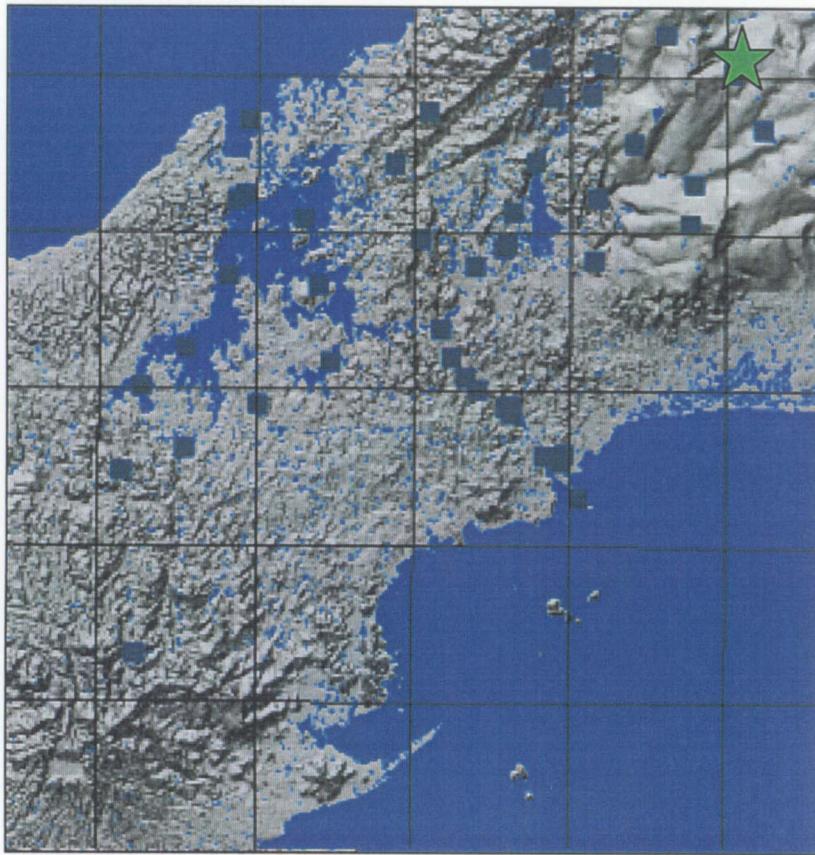
January 1999 to date.

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Esperanza

C-44



FRIOLITO

Location

The station is located in the province of Colon at latitude 09°13'08" north and longitude 79°42'58" west. The altitude of the station is about 349.0 meters above mean sea level. The station is accessible by road.

Station Code 69

Station ID FTO

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in December 1998.

Period of Record

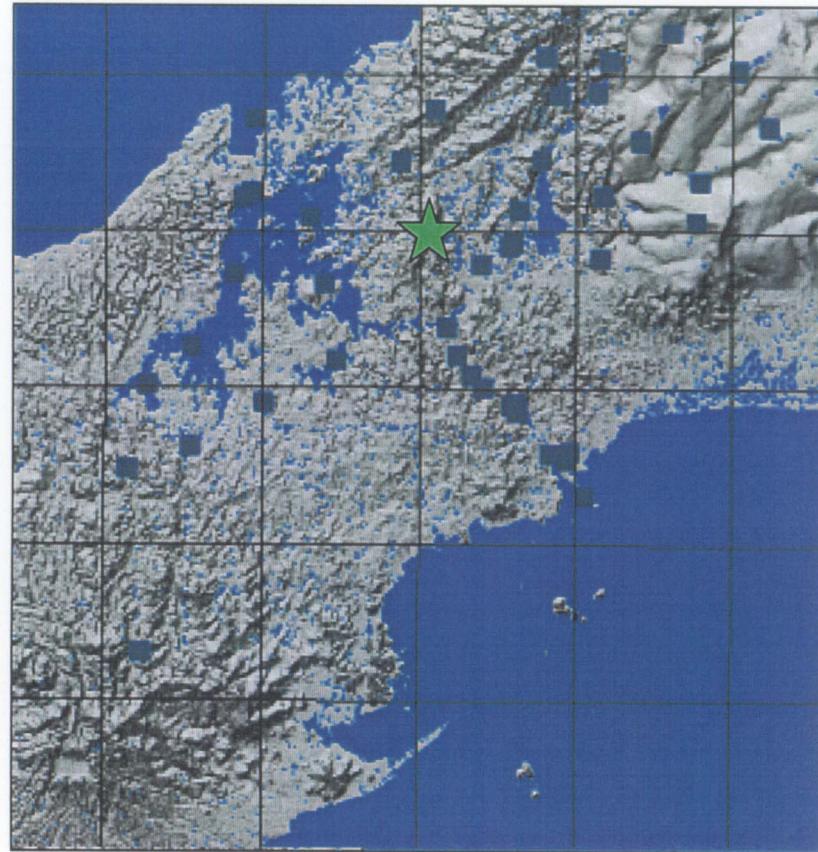
January 1999 to date.

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Frijolito

C-46



GAMBOA

Location

The station is located in the province of Panama at latitude 09°06'44" north and longitude 79°41'38" west. The altitude of the station is about 31.5 meters above mean sea level. The station is accessible by road.

Station Code 16

Station ID GAM

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa. The station is also equipped with sensors for wind velocity, wind direction, gust, relative humidity, air temperature, solar radiation and barometric pressure.

Installation

A non-recording standard rain gauge was installed in June 1881 and continued up to November 17, 1907. The gauge was observed daily in the evening. The gauge was replaced with an automatic tipping bucket rain gauge in November 1907. Rainfall observations were made using this gauge until September 16, 1959. In September 1959 an automatic float gauge was installed. Simultaneous observations of tipping bucket and storage float gauges were started in late 1960's.

Period of Record

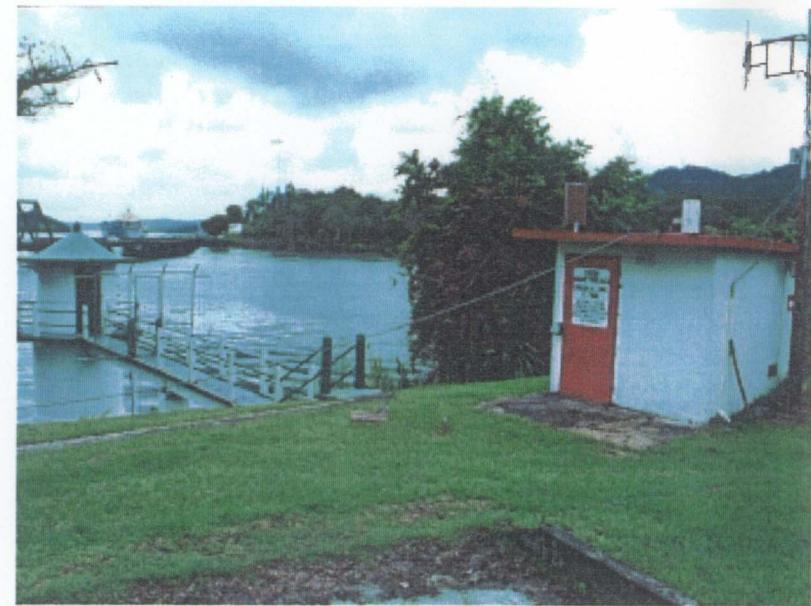
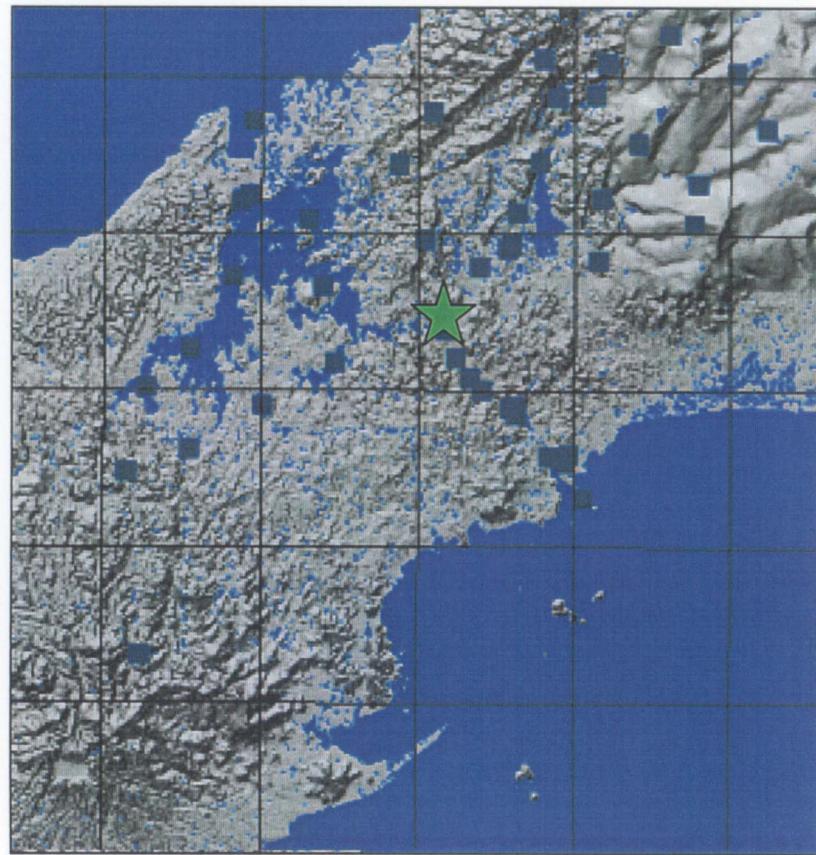
June-December 1881	July 1895
March-December 1882	April-July 1896
April 1883 to January 1895	January 1897 to date
April-May 1895	

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Gamboa

C-48



GASPARILLAL

Location

The station is located in the province of Panama at latitude 08°51'46" north and longitude 80°00'56" west. The altitude of the station is about 346.0 meters above mean sea level. The station is accessible by road.

Station Code 22

Station ID GAD

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in late 2000.

Period of Record

October 2000 to date.

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

GATUN

Location

The station is located in the province of Colon at latitude $09^{\circ}16'06''$ north and longitude $79^{\circ}55'14''$ west. The altitude of the station is about 30.5 meters above mean sea level. The station is accessible by road.

Station Code 54

Station ID GAT

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

A non-recording standard rain gauge was installed in January 1905 and continued up to September 1905. The gauge was observed daily in the evening. The gauge was replaced with an automatic tipping bucket rain gauge float gauge in October 1905. Simultaneous observations of tipping bucket and storage float gauges were started in late 1960's.

Period of Record

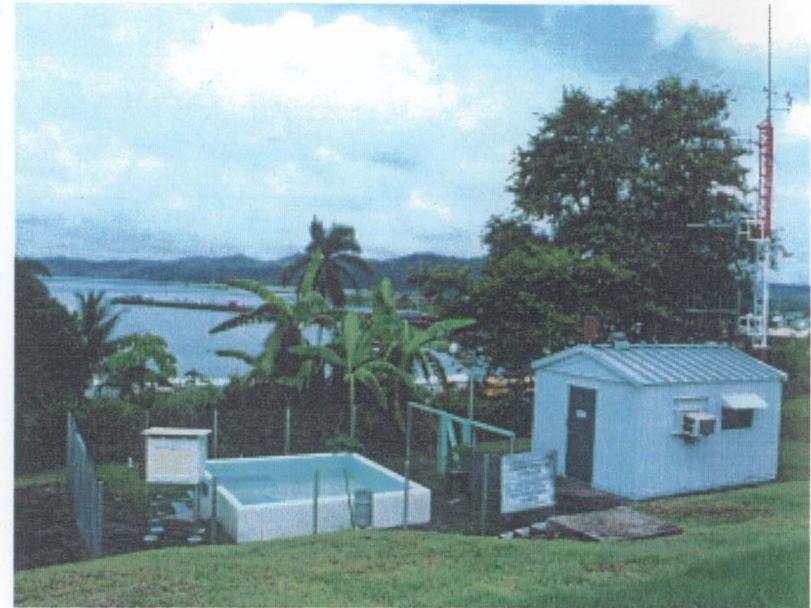
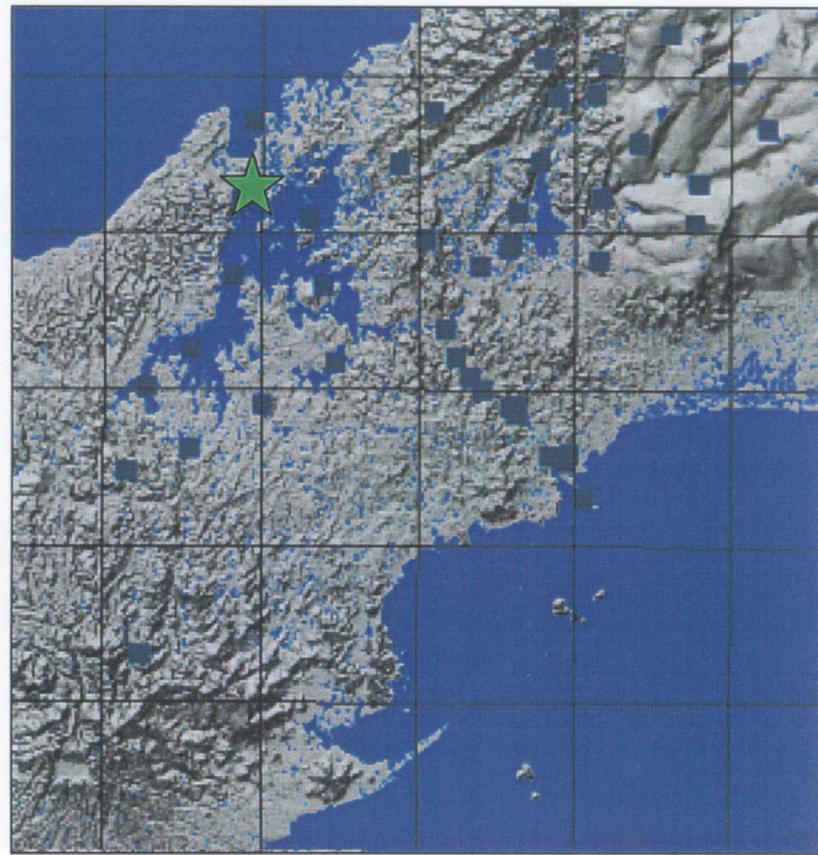
January 1905 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Gatun

C-51



GATUN WEST

Location

The station is located in the province of Colon at latitude $09^{\circ}15'47''$ north and longitude $79^{\circ}55'45''$ west. The altitude of the station is about 33.0 meters above mean sea level. The station is accessible by road.

Station Code 09

Station ID GTW

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa. The station is also equipped with sensors for wind velocity, wind direction, gust, relative humidity, air temperature, solar radiation and barometric pressure.

Installation

The station was installed in late 1998.

Period of Record

January 1999 to date.

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

GOLD HILL

Location

The station is located in the province of Panama at latitude 09°02'34" north and longitude 79°38'35" west. The altitude of the station is about 180.0 meters above mean sea level. The station is accessible by road.

Station Code 24

Station ID GOL

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The gauge was installed in November 2000.

Period of Record

December 2000 to date

Exposure

The collector of the gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

GUACHA

Location

The station is located in the province of Panama at latitude $09^{\circ}10'37''$ north and longitude $79^{\circ}56'20''$ west. The altitude of the station is about 29.0 meters above mean sea level. The station is accessible by road.

Station Code 46

Station ID GUA

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic float gauge was installed at the current location in December 1959. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

December 1959 to July 1960	May 1965 to March 1966
December 1960 to August 1961	January 1968 to January 1970
April-December 1963	January-October 1971
February 1965	December 1971 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

HODGES HILL

Location

The station is located in the province of Panama at latitude 09°02'39" north and longitude 79°39'05" west. The altitude of the station is about 70.0 meters above mean sea level. The station is accessible by road.

Station Code 41

Station ID HHI

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

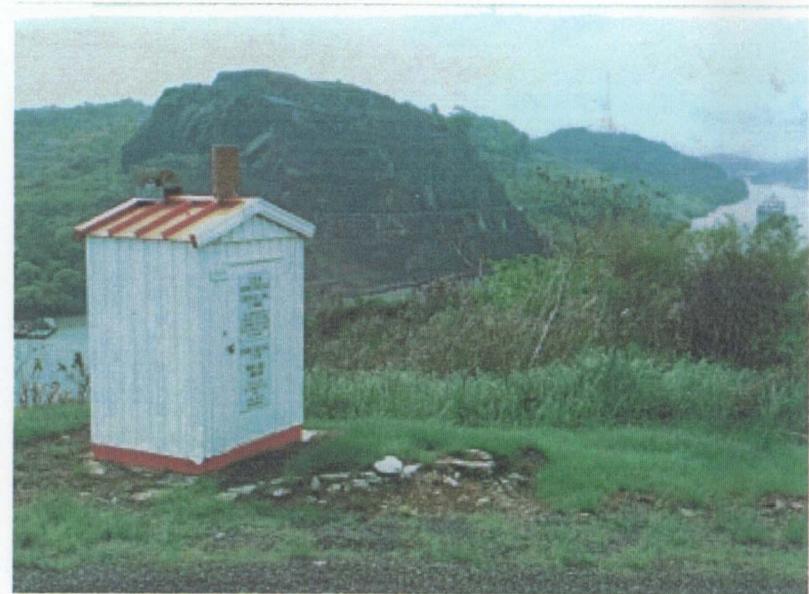
June 1968 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Hodges

C-56



HUMEDAD

Location

The station is located in the province of Panama at latitude 09°02'54" north and longitude 80°02'21" west. The altitude of the station is about 30.5 meters above mean sea level. The station is accessible by road and boat.

Station Code 43

Station ID HUM

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

A standard non-recording rain gauge was installed in August 1925 and continued up to December 1927. The gauge was read daily in the evening. An automatic float gauge was installed at the current location in October 1960. The gauge did not function properly from 1962 to 1966. Simultaneous observations of tipping bucket and storage gauges were also started in late 1960's.

Period of Record

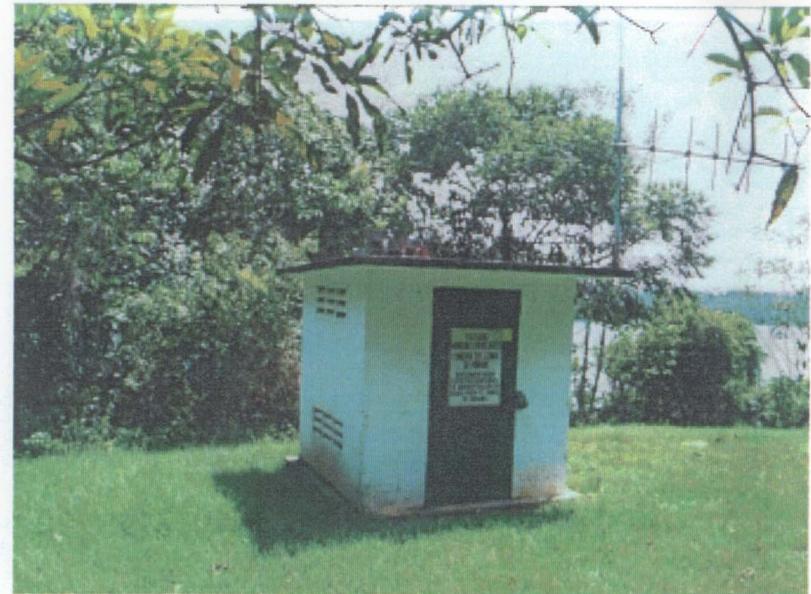
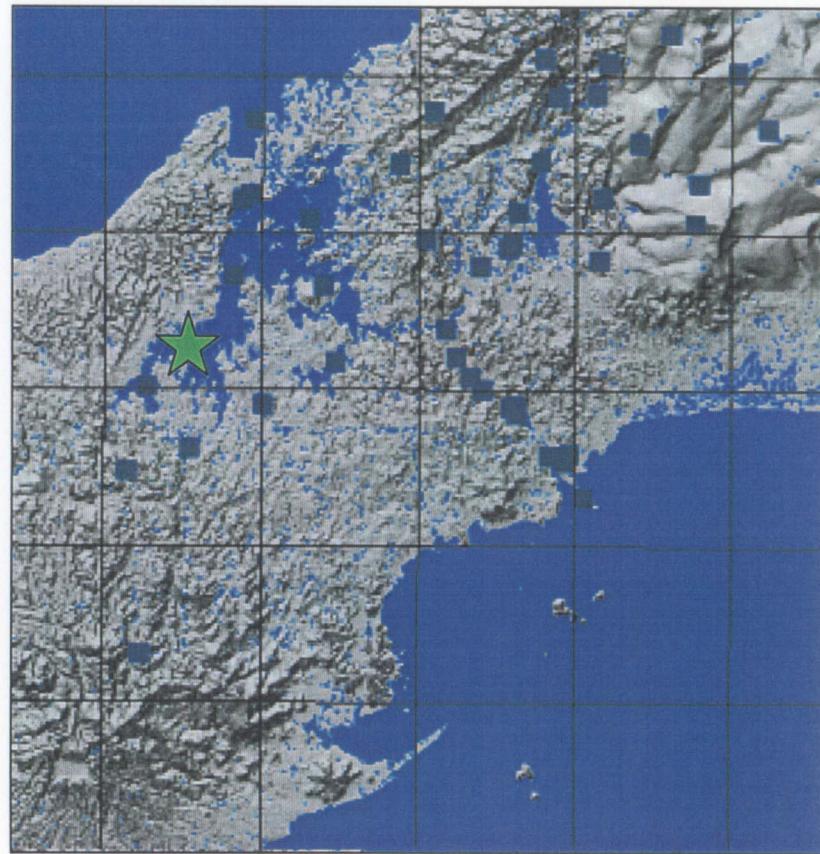
August 1925 to December 1927
January-March 1961, December 1961
September-November 1966
January 1967 to date

Exposure

The collector of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Humedad

C-58



JAGUA

Location

The station is located in the province of Panama at latitude $08^{\circ}44'14''$ north and longitude $80^{\circ}02'50''$ west. The altitude of the station is about 545.5 meters above mean sea level. The station is accessible by road.

Station Code 6750

Station ID JAG

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa. The station is also equipped with sensors for wind velocity, wind direction, gust, relative humidity, air temperature, solar radiation and barometric pressure.

Installation

The station was installed in late 1998.

Period of Record

January 1999 to date.

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

LIMPIO

Location

The station is located in the province of Panama at latitude $09^{\circ}19'41''$ north and longitude $79^{\circ}28'07''$ west. The altitude of the station is about 684.0 meters above mean sea level. The station is accessible by road.

Station Code 20

Station ID LIM

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in late 1998.

Period of Record

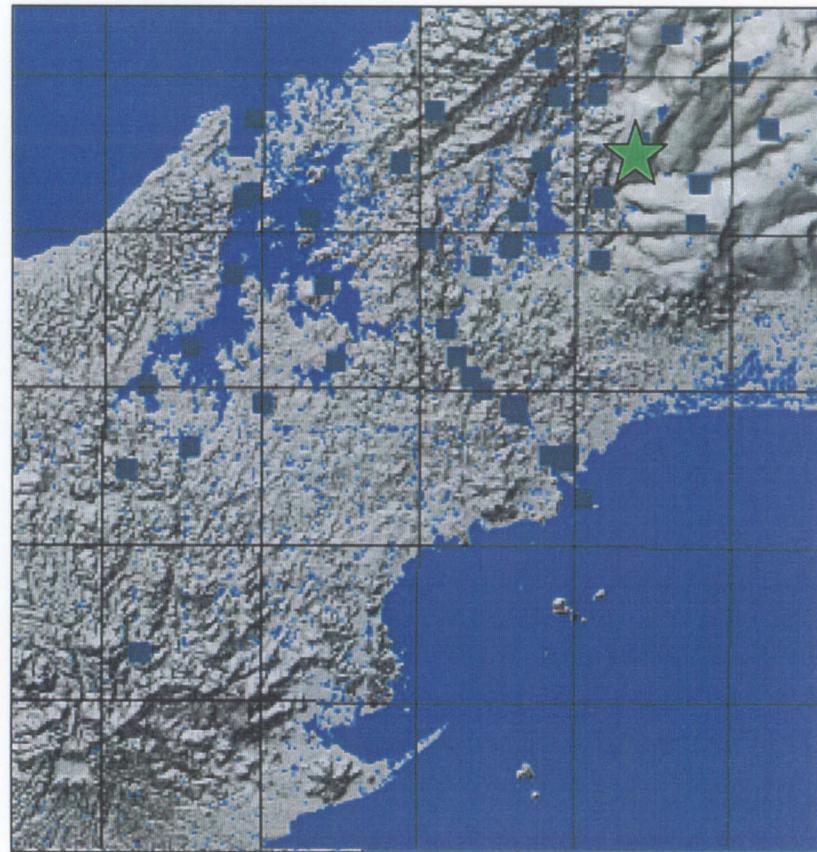
January 1999

July-September 1999

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Limpio



C-61

MIRAFLORES

Location

The station is located in the province of Panama at latitude 09°00'51" north and longitude 79°36'36" west. The altitude of the station is about 20.0 meters above mean sea level. The station is accessible by road.

Station Code 58

Station ID MIR

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in late 1998.

Period of Record

January 1999 to date.

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Miraflores

C-63



MONTE LIRIO

Location

The station is located in the province of Colon at latitude $09^{\circ}14'28''$ north and longitude $79^{\circ}51'12''$ west. The altitude of the station is about 33.5 meters above mean sea level. The station is accessible by road.

Station Code 42

Station ID MLR

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

A non-recording standard rain gauge was installed in December 1907 at a location (latitude $9^{\circ}17'$ north and longitude $79^{\circ}54'$ west) close to the present location. The gauge was observed daily in the evening. The gauge was shifted to present location in September 1910 and continued up to October 1942. The observations were made on a weekly or monthly basis. The gauge was replaced with an automatic float gauge in October 1942. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

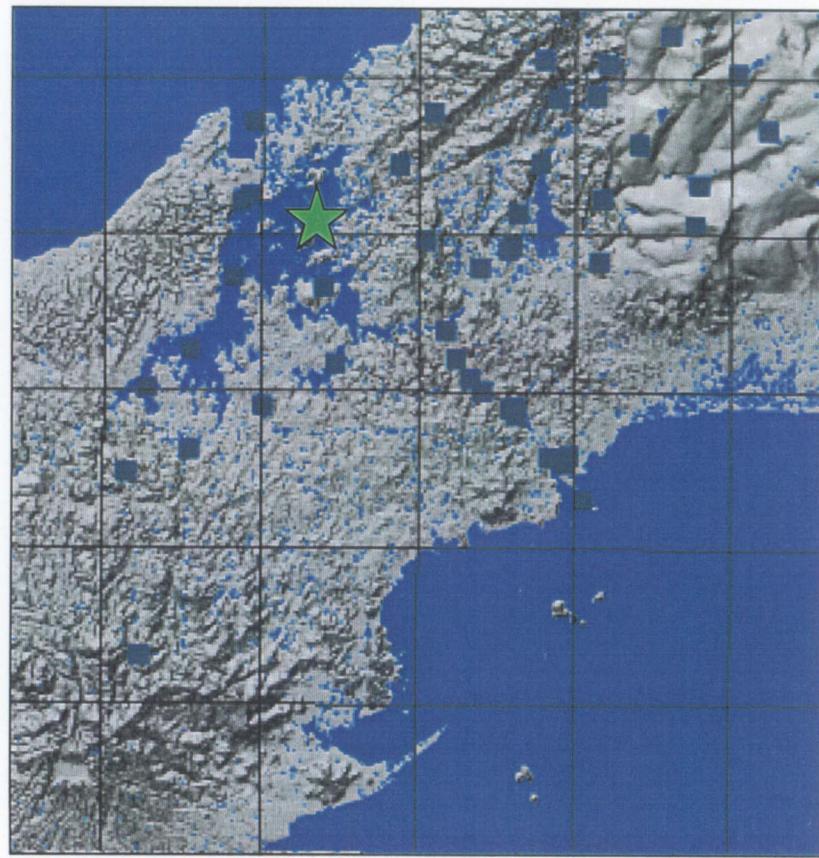
December 1907 to February 1960	April 1965 to January 1966
April-May 1960	March-December 1966
October 1960 to April 1964	March 1967 to March 1970
September 1964	May 1970 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Monte Lirio

C-65



PELUCA

Location

The station is located in the province of Colon at latitude 09°22'48" north and longitude 79°33'40" west. The altitude of the station is about 106.5 meters above mean sea level. The station is accessible by road.

Station Code 45

Station ID PEL

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic float gauge was installed at the current location in September 1933. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

October 1933 to February 1962

November 1964

February-May 1963

July 1965 to August 1971

August-December 1963

October 1971 to date

March-April 1964

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Peluca

C-67



PEDRO MIGUEL

Location

The station is located in the province of Panama at latitude 09°01'22" north and longitude 79°37'02" west. The altitude of the station is about 30.5 meters above mean sea level. The station is accessible by road.

Station Code 61

Station ID PMG

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic tipping bucket gauge was installed at the current location in January 1908. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

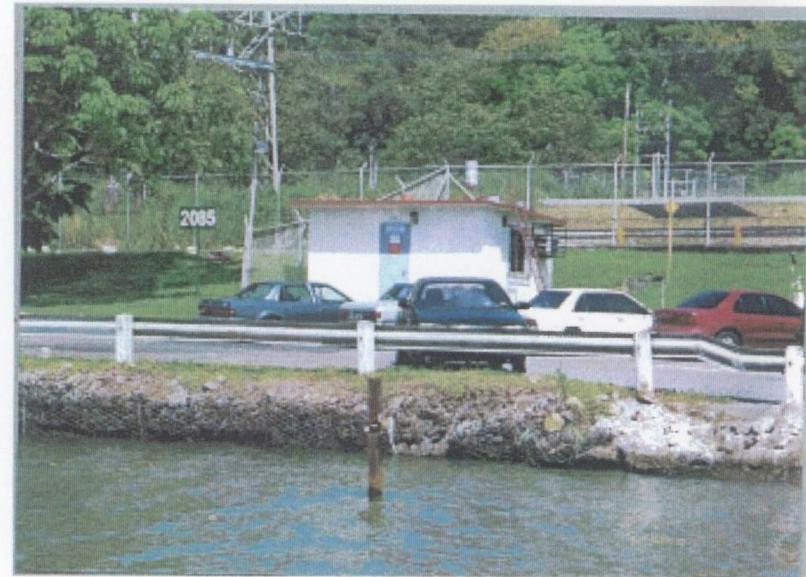
January 1908 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Pedro Miguel

C-69



RACIES (LAS RACIES)

Location

The station is located in the province of Panama at latitude $09^{\circ}05'31''$ north and longitude $79^{\circ}59'16''$ west. The altitude of the station is about 33.5 meters above mean sea level. The station is accessible by road.

Station Code 44

Station ID RAI

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic float gauge was installed at the current location on May 17, 1941. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

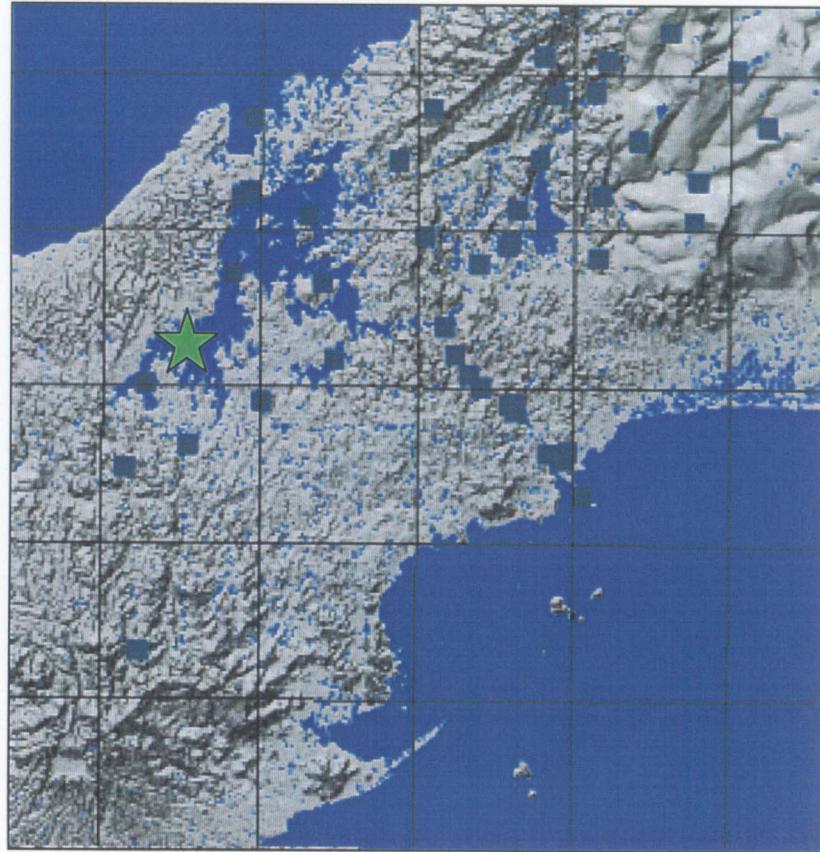
January 1941	November 1964 to July 1965
June 1941 to December 1961	October 1965 to May 1970
April 1962 to March 1963	October-November 1970
September-October 1963	January 1971 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Raices

C-71



RIO PIEDRAS

Location

The station is located in the province of Panama at latitude $09^{\circ}16'55''$ north and longitude $79^{\circ}23'53''$ west. The altitude of the station is about 149.5 meters above mean sea level. The station is accessible by road.

Station Code 66

Station ID RPD

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

Simultaneous observations of tipping bucket and storage gauges were started in mid 1980's.

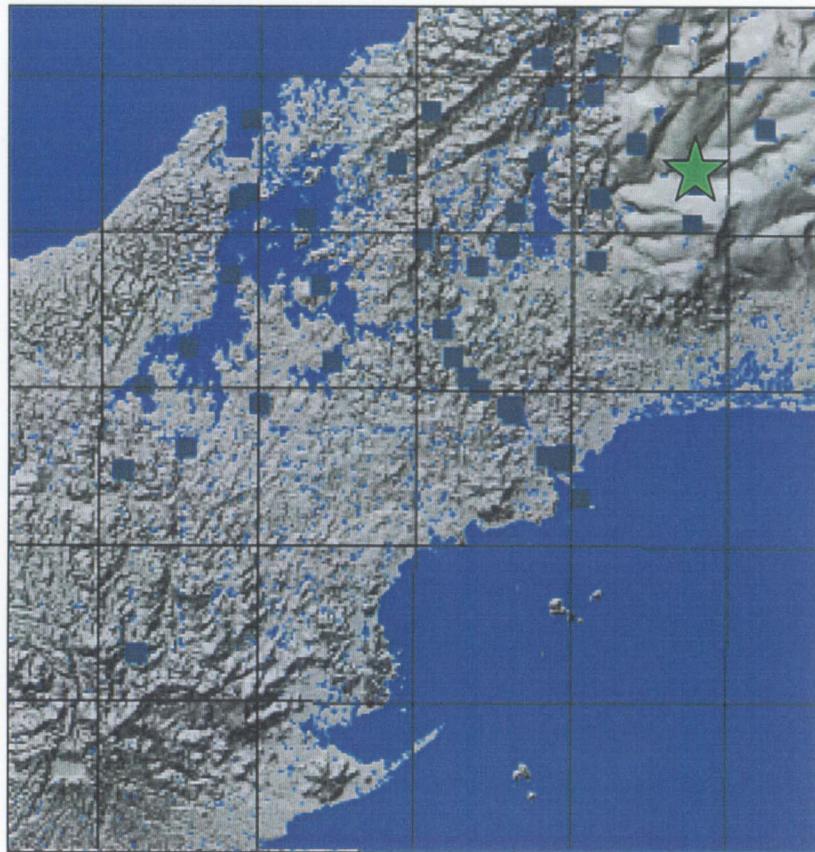
Period of Record

May 1985 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Piedras



SALAMANCA

Location

The station is located in the province of Colon at latitude $09^{\circ}18'$ north and longitude $79^{\circ}35'$ west. The altitude of the station is about 82.3 meters above mean sea level. The station is accessible by boat.

Station Code 47

Station ID SAL

Instrumentation

The station was equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) was also installed and hooked to the telecommunication system. The station was closed in June 2000.

Installation

A non-recording standard rain gauge was installed in December 1899 and continued up to December 1900. The gauge was observed daily at 06:00 AM and 06:00 PM. The non-recording gauge was restarted in April 1912. The gauge was replaced by an automatic Friez tipping bucket rain gauge in October 1930. This gauge was continued up to September 1934. Due to some problem with the gauge, this was replaced with a standard non-recording gauge in September 1934. The gauge was observed daily in the evening. In November 1934, the non-recording gauge was replaced with an automatic float gauge. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

January-December 1900
April 1912 to November 1962
January 1963 to May 1964
August-October 1964

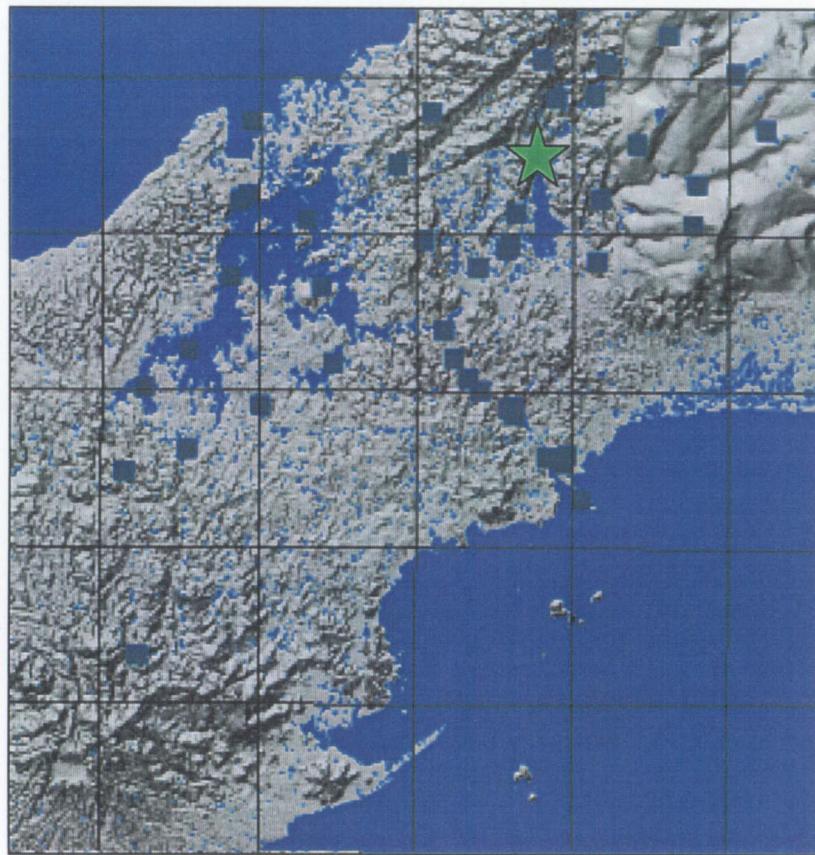
February-March 1965
May 1965
October 1965 to May 2000

Exposure

The collectors of both tipping and storage gauges were installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Salamanca

C-75



SAN MIGUEL

Location

The station is located in the province of Colon at latitude 09°25'12" north and longitude 79°30'15" west. The altitude of the station is about 520.0 meters above mean sea level. The station is accessible by road.

Station Code 49

Station ID SMG

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

An automatic float gauge was installed in March 1941. Simultaneous observations of tipping bucket and storage gauges were started in late 1960's.

Period of Record

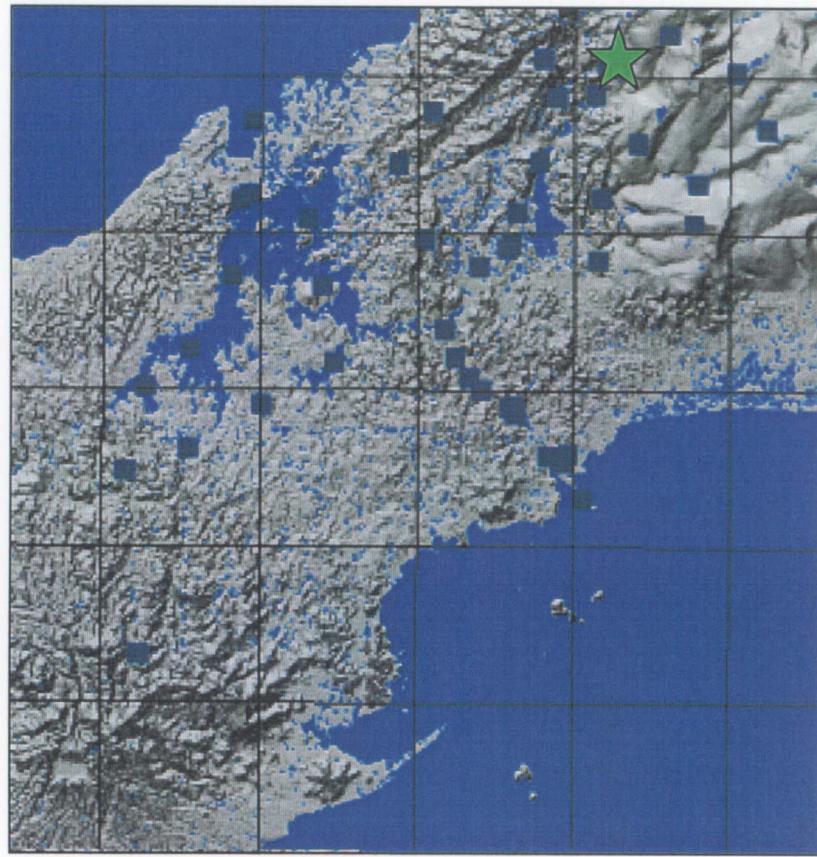
April 1941 to December 1959	December 1964 to April 1967
February-August 1960	August 1967 to December 1969
November 1960 to June 1961	February-April 1970
February-November 1963	January 1971 to date
February-April 1964	

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

San Miguel

C-77



SANTA ROSA

Location

The station is located in the province of Colon at latitude $09^{\circ}11'09''$ north and longitude $79^{\circ}39'15''$ west. The altitude of the station is about 27.5 meters above mean sea level. The station is accessible by boat.

Station Code 08

Station ID SRO

Instrumentation

The station is equipped with a 12-inch collector storage type rain gauge with a float-pulley mechanism and connected to a HANDAR data logger for on site record of rainfall. A tipping bucket rain gauge (3 mm per tip) is also installed and hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

Simultaneous observations of tipping bucket and storage gauges were started in 1986.

Period of Record

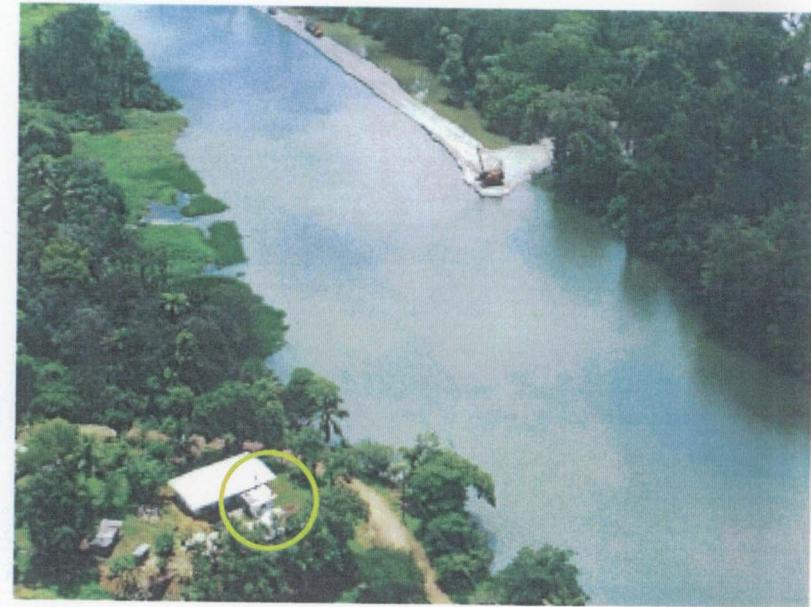
January 1986 to date

Exposure

The collectors of both tipping and storage gauges are installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

Santa Rosa

C-79



VISTAMARES

Location

The station is located in the province of Panama at latitude 09°14'04" north and longitude 79°24'05" west. The altitude of the station is about 968.5 meters above mean sea level. The station is accessible by road.

Station Code 68

Station ID VTM

Instrumentation

The station is equipped with a 12-inch collector tipping bucket rain gauge (3 mm per tip) hooked to the telecommunication system. The data are transmitted to the central computer at Balboa.

Installation

The station was installed in late 1998.

Period of Record

January 1999 to date

Exposure

The collector of the tipping gauge is installed on the top of the building housing the instruments. The station was not visited. According to ACP meteorologist, the exposure is satisfactory.

GATUN RIVER AT CIENTO

Location

The station is located on the Gatun River about 6.4 km upstream from the Transisthmian Bridge at latitude 9°18' north and 79°44' west in the province of Colon. The station is accessible by road/boat.

Station Code: 115-05-01

Drainage Area: 117 km²

Gauge Datum: 30.48 meters, PLD

Period of Record

May 1943	October-December 1965
August 1943 to June 1945	January 1971 to August 1974
April 1946 to February 1947	October 1974 to February 1975
April-May 1947	April 1975
September 1947 to July 1964	June 1975 to May 1990
October 1964 to May 1965	July 1990 to date
August 1965	

Instrumentation

Both rainfall and stream gauging stations are installed at this location. The rainfall station has been discussed previously.

The stream gauging station started operation in early 1943. A Steven's A-35 recorder was installed in a stilling well. The recorder has been replaced with an A-71 recorder. The float system of the recorder is connected to a Handar data logger through a shaft encoder and to the telecommunication system through a Sutron (Novalynx) shaft encoder. The gauge height data are transmitted to a central computer in ACP office in Balboa Heights.

A staff gauge is installed in steps near the stilling well. Periodic discharge measurements are made from an overhead cableway, located about 90 meters downstream from the stilling well. Surface suspended sediment samples are taken from the bank using United States Geological Survey (USGS) D-48 depth integrating sampler.

Stage-Discharge Relationship

A number of river cross sectional profiles were reviewed since 1949. There is a significant shift in the riverbed and bank erosion/deposition is also apparent. Stage-discharge relationship (rating curve) is controlled by the channel condition and is not stable. Periodic discharge measurements are required to update the relationship.

Remarks

Discharge measurements are made from the cableway even during low flow season when wading measurements should be preferred. The velocity and depth observations are made at three to seven verticals across the river width depending upon the flow condition, less verticals during low flow. This could introduce errors in the measurements. A review of office procedures indicated that computations of daily discharges are made using USGS guidelines. The flow record was judged fair to good depending upon the use of updated rating curve.

BOQUERON RIVER AT PELUCA

Location

The station is located on the Boqueron River at latitude 9°23' north and 79°30' west in the province of Colon. The station is accessible by road/boat.

Station Code: 115-06-01

Drainage Area: 91 km²

Gauge Datum: 106.68 meters, PLD

Period of Record

September 1933 to August 1964

November 1964 to May 1965

September 1965 to date

Instrumentation

Both rainfall and stream gauging stations are installed at this location. The rainfall station has been discussed previously.

The stream gauging station started operation in early 1933. A float operated analog recorder was installed in a stilling well. The recorder has been replaced with an A-71 recorder. The float system of the recorder is connected to a Handar data logger through a shaft encoder and to the telecommunication system through a Sutron (Novalynx) shaft encoder. The gauge height data are transmitted to a central computer in ACP office in Balboa Heights.

A staff gauge is installed in steps near the stilling well. Periodic discharge measurements are made from an overhead cableway located near the stilling well. Surface suspended sediment samples are taken from the bank using United States Geological Survey (USGS) D-48 depth integrating sampler.

Stage-Discharge Relationship

River cross sectional profiles for the years 1999 and 2000 were reviewed. There is some shift in the riverbed but not very significant. Stage-discharge relationship (rating curve) is controlled by the channel condition and may be fairly stable. Periodic discharge measurements are made to update the relationship.

Remarks

Discharge measurements are made from the cableway even during low flow season when wading measurements should be preferred. The velocity and depth observations are

made at three to seven verticals across the river width depending upon the flow condition, less verticals during low flow. This could introduce errors in the measurements. A review of office procedures indicated that computations of daily discharges are made using USGS guidelines. The flow record was judged to be good.

PEQUENI RIVER AT CANDELARIA

Location

The station is located on the Pequeni River at latitude 9°23' north and 79°44' west in the province of Colon. The station is accessible by road/boat.

Station Code: 115-07-01

Drainage Area: 52 km²

Gauge Datum: 81.08 meters, PLD

Period of Record

September-December 1933

February 1934 to February 1971

May 1971 to date

Instrumentation

Both rainfall and stream gauging stations are installed at this location. The rainfall station has been discussed previously.

The stream gauging station started operation in late 1933. A float-operated recorder was installed in a stilling well. The recorder has been replaced with an A-71 recorder. The float system of the recorder is connected to a Handar data logger through a shaft encoder and to the telecommunication system through a Sutron (Novalynx) shaft encoder. The gauge height data are transmitted to a central computer in ACP office in Balboa Heights.

A staff gauge is installed in steps near the stilling well. Periodic discharge measurements are made from an overhead cableway, located near the stilling well. Surface suspended sediment samples are taken from the bank using United States Geological Survey (USGS) D-48 depth integrating sampler.

Stage-Discharge Relationship

A number of river cross sectional profiles were reviewed since 1949. There is no significant shift in the riverbed and/or bank erosion/deposition. Stage-discharge relationship (rating curve) is controlled by the channel condition and could be fairly stable. Periodic discharge measurements are made to update the relationship.

Remarks

Discharge measurements are made from the cableway even during low flow season when wading measurements should be preferred. The velocity and depth observations are made at three to seven verticals across the river width depending upon the flow condition,

less verticals during low flow. This could introduce errors in the measurements. A review of office procedures indicated that computations of daily discharges are made using USGS guidelines. The flow record was judged to be good.

CHAGRES RIVER AT CHICO

Location

The station is located on the Chagres River about 8.8 km upstream from the mouth of the river at Madden Lake at latitude $9^{\circ}16'$ north and $79^{\circ}31'$ west in the province of Panama. The station is accessible by road/boat.

Station Code: 115-01-02

Drainage Area: 414 km²

Gauge Datum: 81.69 meters, PLD

Period of Record

March 1933 to June 1934

October 1934 to October 1966

December 1966 to December 1967

January 1971

July 1971 to March 1975

June 1975 to October 1986

December 1986 to date

Instrumentation

Both rainfall and stream gauging stations are installed at this location. The rainfall station has been discussed previously.

The stream gauging station started operation in early 1933. A Steven's A-35 recorder was installed in a stilling well. The recorder has been replaced with an A-71 recorder. The new recorder is connected to manometer servo. The manometer servo is also connected to a Handar data logger through a shaft encoder and to the telecommunication system through a Sutron (Novalynx) shaft encoder. The gauge height data are transmitted to a central computer in ACP office in Balboa Heights.

A staff gauge is installed in steps near the stilling well. Periodic discharge measurements are made from an overhead cableway, located near the stilling well. Surface suspended sediment samples are taken from the bank using United States Geological Survey (USGS) D-48 depth integrating sampler.

Stage-Discharge Relationship

Recent cross sectional profiles of the river were reviewed. There is some shift in the riverbed. Stage-discharge relationship (rating curve) is controlled by the channel condition and is not very stable. Periodic discharge measurements are required to update the relationship.

Remarks

Discharge measurements are made from the cableway even during low flow season when wading measurements should be preferred. The velocity and depth observations are made at three to seven verticals across the river width depending upon the flow condition, less verticals during low flow. This could introduce errors in the measurements. A review of office procedures indicated that computations of daily discharges are made using USGS guidelines. The flow record was judged fair to good depending upon the use of updated rating curve.

TRINIDAD RIVER AT CHORRO (EL CHORRO)

Location

The station is located on the Trinidad River at latitude $8^{\circ}58'$ north and $79^{\circ}59'$ west in the province of Panama. The station is accessible by road.

Station Code: 115-02-01

Drainage Area: 174 km²

Gauge Datum: 29.57 meters, PLD

Period of Record

April 1947

November 1947 to July 1966

October 1966 to June 1969

October 1969 to October 1972

December 1972 to July 1985

September 1985 to date

Instrumentation

Both rainfall and stream gauging stations are installed at this location. The rainfall station has been discussed previously.

The stream gauging station started operation in early 1947. A Steven's A-35 recorder was installed in a stilling well. The recorder has been replaced with an A-71 recorder. The float system of the recorder is connected to a Handar data logger through a shaft encoder and to the telecommunication system through a Sutron (Novalynx) shaft encoder. The gauge height data are transmitted to a central computer in ACP office in Balboa Heights.

A staff gauge is installed in steps near the stilling well. Periodic discharge measurements are made from an overhead cableway, located near the stilling well. Surface suspended sediment samples are taken from the bank using United States Geological Survey (USGS) D-48 depth integrating sampler.

Stage-Discharge Relationship

A number of river cross sectional profiles since 1947 were reviewed. There is some shift in the riverbed. Stage-discharge relationship (rating curve) is controlled by the channel condition and is not very stable. Periodic discharge measurements are required to update the relationship.

Remarks

Discharge measurements are made from the cableway even during low flow season when wading measurements should be preferred. The velocity and depth observations are made at three to seven verticals across the river width depending upon the flow condition, less verticals during low flow. This could introduce errors in the measurements. A review of office procedures indicated that computations of daily discharges are made using USGS guidelines. The flow record was judged fair to good depending upon the use of updated rating curve.

CIRI GRANDE RIVER AT CANONES (LOS CANONES)

Location

The station is located on the Ciri Grande River about 3.2 km upstream from the Chorros de Ciri (Ciri Waterfalls) at latitude 8°57' north and 80°04' west in the province of Panama. The station is accessible by road.

Station Code: 115-08-01

Drainage Area: 186 km²

Gauge Datum: 97.54 meters, PLD

Period of Record

July-August 1947	December 1984
November 1947 to December 1958	March-October 1985
February-May 1959	January-October 1986
August 1978 to December 1983	January 1987 to date
March-October 1984	

Instrumentation

Both rainfall and stream gauging stations are installed at this location. The rainfall station has been discussed previously.

The stream gauging station started operation in mid 1947. A Steven's A-35 recorder was installed in a stilling well. The recorder has been replaced with an A-71 recorder. The float system of the recorder is connected to a Handar data logger through a shaft encoder and to the telecommunication system through a Sutron (Novalynx) shaft encoder. The gauge height data are transmitted to a central computer in ACP office in Balboa Heights.

A staff gauge is installed in steps near the stilling well. Periodic discharge measurements are made from an overhead cableway, located near the stilling well. Surface suspended sediment samples are taken from the bank using United States Geological Survey (USGS) D-48 depth integrating sampler.

Stage-Discharge Relationship

Two cross sectional profiles of the river surveyed in 1999 and 2000 were reviewed. There is a significant shift in the riverbed and bank erosion/deposition is also apparent. Stage-discharge relationship (rating curve) is controlled by the channel condition and is not stable. Periodic discharge measurements are required to update the relationship.

Remarks

Discharge measurements are made from the cableway even during low flow season when wading measurements should be preferred. The velocity and depth observations are made at three to seven verticals across the river width depending upon the flow condition, less verticals during low flow. This could introduce errors in the measurements. A review of office procedures indicated that computations of daily discharges are made using USGS guidelines. The flow record was judged fair to good depending upon the use of updated rating curve.

Table 1

METEOROLOGICAL STATIONS WITH PERIODS OF RECORD

1. Alhajuela (rainfall)	Jul 1899 to Apr 1904, Jun 1904 to Dec 2000
2. Agua Clara (rainfall)	May 1910 to Jun 1921, Dec 1921 to January 1927, Jun 1945 to Aug 1947, Nov 1947 to Aug 1963 Oct-Nov 1963, Jan-Apr 1964, Jan-Feb 1965 May-Jul 1965, Oct 1965, Jan 1966 to July 1971, Oct 1971 to Dec 2000
3. Barro Colorado (rainfall)	Apr 1925 to Dec 2000
4. Balboa Heights (rainfall)	Jul 1898 to Dec 1901, Jun 1905 to Dec 2000
5. Balboa Docks (rainfall, closed)	May to Jul 1881, Jun 1894 to Aug 1895, Sep 1899 to Aug 1900, Apr 1901 to Apr 1904, Jan 1905 to Feb 1983
6. Balboa FAA (climate)	Apr 1978 to Dec 2000
7. Cano (rainfall)	Jan 1912 to Jun 1959, Feb 1970, May-Aug 1970, Feb 1971 to Dec 2000
8. Candelaria (rainfall)	Sep 1933 to Apr 1934, Jul 1934 to Jan 1962, Nov-Dec 1962, Feb 1963 to Jul 1963, Nov 1963 to May 1964, Oct 1964 to Dec 2000
9. Ciento (rainfall)	Apr 1947 to Sep 1962, Jan-Sep 1963, Nov-Dec 1963, Jan 1964, Mar-May 1964, Oct-Nov 1964, Sep-Dec 1965, Jan 1966, Apr 1966, Jun-July 1966, Oct 1966 to Apr 1971, Jun 1971 to Feb 1974, May 1974 to Dec 2000
10. Chico (rainfall)	Oct 1932 to Feb 1933, Apr 1933 to Jan 1962, Oct-Dec 1964, Apr 1966 to Apr 1967, Jul 1967 to Dec 2000
11. Coco Solo (rainfall, closed)	Sep 1980 to Dec 1995
12. Cristobal (rainfall, closed)	Mar 1881 to Mar 1888, Jan 1890 to Sep 1979
13. Diablo Heights (rainfall)	Jan 1983 to Dec 2000
14. El Chorro (rainfall)	Sep 1947 to Jul 1960, Nov 1960 to Sep 1963, Dec 1963, Jan 1964, Jan-Mar 1965, May 1965 to Aug 1966, Oct 1966, Dec 1966 to Dec 2000
15. Empire Hill (rainfall)	Apr-Jun 1883, Aug-Sep 1883, Dec 1883, Jun 1905 to Mar 1927, Jan 1962 to Sep 1964, Dec 1978 to Dec 2000
16. Escandalosa (rainfall)	Jan-Apr 1948, Oct 1948 to Nov 1959, Jun 1960, Jan 1961 to Apr 1962, Dec 1962 to Jan 1965, May-Dec 1965, Mar 1966, Jun-Aug 1966, Nov 1966 to Apr 1969, Mar 1970 to Dec 2000
17. Gamboa (climate)	Jun-Dec 1881, Mar-Dec 1882, Apr 1883 to Jan 1895, Apr-May 1895, Jul 1895, Apr-Jul 1896, Jan 1897 to Dec 2000

Table 1
(continued)

18. Gatun (rainfall)	Jan 1905 to Dec 2000
19. Guacha (rainfall)	Dec 1959 to Jul 1960, Dec 1960 to Aug 1961, Apr-Dec 1963, Feb 1965, May 1965 to Mar 1966, Jan 1968 to Jan 1970, Jan-Oct 1971, Dec 1971 to Dec 2000
20. Hodges Hill (rainfall)	Jun 1968 to Dec 2000
21. Humedad (rainfall)	Aug 1925 to Dec 1927, Jan-Mar 1961, Dec 1961, Sep-Nov 1966, Jan 1967 to Dec 2000
22. Las Cascadas (rainfall)	Feb-Oct 1967, Dec 1967, Jan-Feb 1968, Jul 1968 to Mar 1969, Apr-Oct 1970, Apr-Jul 1971, Sep-Oct 1971, Dec 1971 to Dec 2000
23. Las Racies (rainfall)	Jan 1941, Jun 1941 to Dec 1961, Apr 1962 to Mar 1963, Sep-Oct 1963, Nov 1964 to Jul 1965, Oct 1965 to May 1970, Oct-Nov 1970, Jan 1971 to Dec 2000
24. Los Canones (rainfall)	Sep 1947 to Jul 1959, Mar 1978 to Dec 2000
25. Monte Lirio (rainfall)	Dec 1907 to Feb 1960, Apr-May 1960, Oct 1960 to Apr 1964, Sep 1964, Apr 1965 to Jan 1966, Mar-Dec 1966, Mar 1967 to Mar 1970, May 1970 to Dec 2000
26. Pedro Miguel (climate)	Jan 1908 to Dec 2000
27. Peluca (rainfall)	Oct 1933 to Feb 1962, Feb-May 1963, Aug-Dec 1963, Mar-Apr 1964, Nov 1964, Jul 1965 to Aug 1971, Oct 1971 to Dec 2000
28. Rio Piedras (rainfall)	May 1985 to Dec 2000
29. Salamanca (rainfall, closed)	Jan-Dec 1900, Apr 1912 to Nov 1962, Jan 1963 to May 1964, Aug-Oct 1964, Feb-Mar 1965, May 1965, Oct 1965 to May 2000
30. San Miguel (rainfall)	Apr 1941 to Dec 1959, Feb-Aug 1960, Nov 1960 to Jun 1961, Feb-Nov 1963, Feb-Apr 1964, Dec 1964 to Apr 1967, Aug 1967 to Dec 1969, Feb-Apr 1970, Jan 1971 to Dec 2000
31. Santa Rosa (rainfall)	Jan 1986 to Dec 2000
32. Arca Sonia (rainfall)	Mar 1999 to Dec 2000
33. Cerro Cama (rainfall)	Apr-Dec 2000
34. Chamon (rainfall)	Jan-Dec 2000
35. Dos Bocas (rainfall)	May-Dec 2000
36. Esperanza (rainfall)	Jan 1999 to Dec 2000
37. Friolito (rainfall)	Jan 1999 to Dec 2000

Table 1
(continued)

38. Gasparilla (rainfall)	Oct-Dec 2000
39. Gatun West (climate)	Jan 1999 to Dec 2000
40. Gold Hill (rainfall)	Dec 2000
41. Jagua (climate)	Jan 1999 to Dec 2000
42. Limon Bay (climate)	Jan-Dec 1997, Jul 1998 to Dec 2000
43. Limpio (rainfall)	Jan 1999, Jul-Sep 1999
44. Miraflores (rainfall)	Jan 1999 to Dec 2000
45. Vistamaras (climate)	Jan 1999 to Dec 2000

Table 2

STREAM GAUGING STATIONS WITH PERIOD OF RECORD

1. Ciri Grande River at Los Canones	Jul-Aug 1947, Nov 1947 to Dec 1958, Feb-May 1959, Aug 1978 to Dec 1983, Mar-Oct 1984, Dec 1984, Mar-Oct 1985, Jan-Oct 1986, Jan 1987 to Dec 1998
2. Trinidad River at Chorro	Apr 1947, Nov 1947 to Jul 1966, Oct 1966 to Jun 1969, Oct 1969 to Oct 1972, Dec 1972 to Jul 1985, Sep 1985 to Dec 1998
3. Chagres River at Chico	Mar 1933 to Jun 1934, Oct 1934 to Oct 1966, Dec 1966 to Dec 1967, Jan 1971, Jul 1971 to Mar 1975, Jun 1975 to Oct 1986, Dec 1986 to Dec 1998
4. Pequeni River at Candelaria	Sep-Dec 1933, Feb 1934 to Feb 1971, May 1971 to Dec 1998
5. Boqueron River at Peluca	Sep 1933 to Aug 1964, Nov 1964 to May 1965, Sep 1965 to Jun 1998
6. Gatun River at Ciento	May 1943, Aug 1943 to Jun 1945, Apr 1946 to Feb 1947, Apr-May 1947, Sep 1947 to Jul 1964, Oct 1964 to May 1965, Aug 1965, Oct-Dec 1965, Jan 1971 to Aug 1974, Oct 1974 to Feb 1975, Apr 1975, Jun 1975 to May 1990, Jul 1990 to Jul 1998

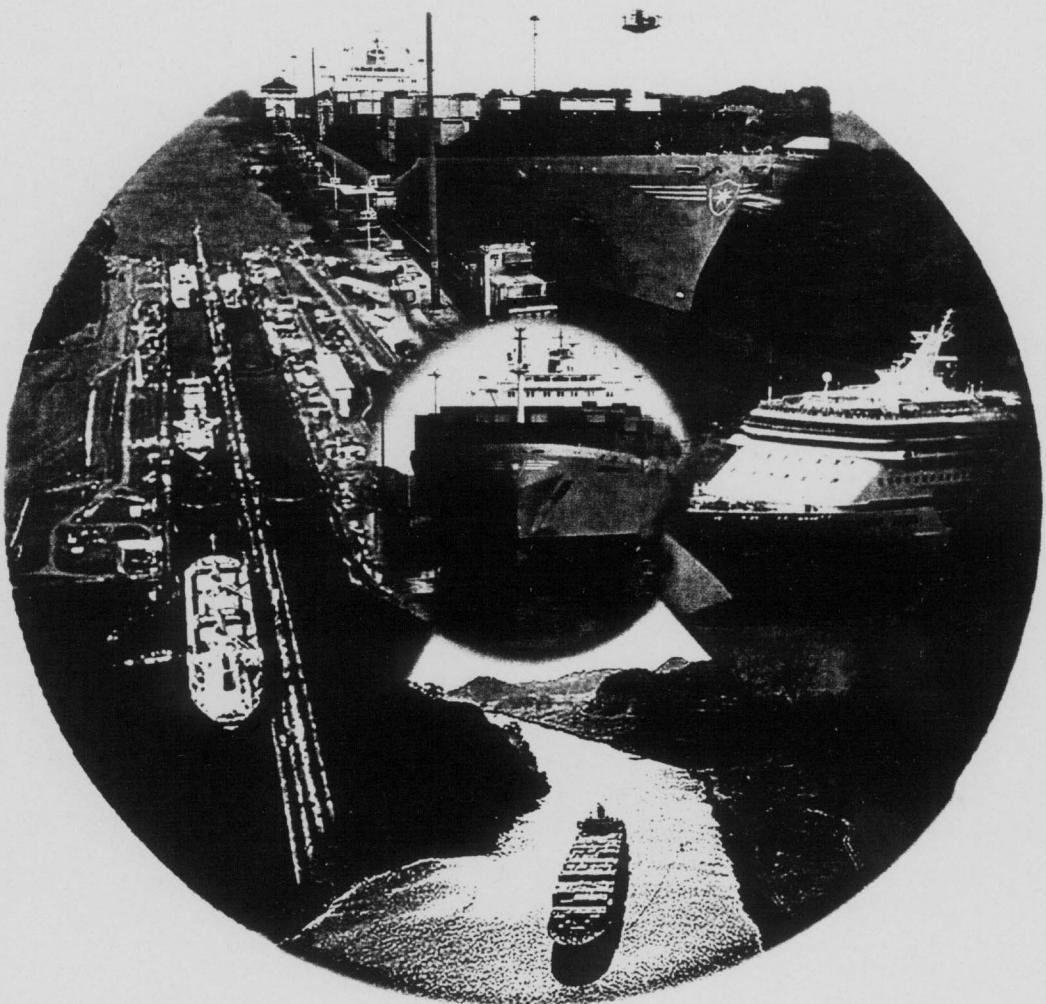
Table 3

**COMPARISON OF RAINFALL DATA
USING STORAGE AND TIPPING BUCKET RAIN GAUGES
YEAR 2000**

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Agua Clara	storage tipping		3.6 4.2	0.4 0.7	0.5 0.6	3.8 4.5	8.8 12.3	22.7 22.3	5.5 10.3	9.8 16.9	14.3 14.0	33.9 33.3	9.3 10.1	28.9 28.6
Borro Colorado	storage tipping		6.8 6.1	0.6 0.4	0.2 0.1	6.7 5.8	7.4 6.4	11.9 10.7	8.4 7.6	12.3 6.1	6.9 5.4	23.4 17.2	10.4 1.0	6.7 17.8
Canones	storage tipping		4.3 9.3	1.5 1.4	0.3 0.5	4.3 4.3	11.4 11.0	15.4 14.7	8.9 8.6	13.3 12.1	9.1 2.4	13.2 13.3	8.4 8.1	11.6 11.3
Cascadas	storage tipping		1.9 2.1	0.1 0.1	0.4 0.1	4.4 4.2	12.7 11.8	14.3 11.4	6.6 6.4	9.4 1.9	12.7 12.9	4.1 13.9	8.5 8.4	7.4 7.6
Chico	storage tipping		1.4 1.7	0.1 0.1	0.3 0.2	2.6 2.6	5.3 8.9	16.2 15.9	6.3 6.5	17.4 18.1	12.5 13.1	18.3 18.8	6.0 6.2	18.7 19.7
Ciento	storage tipping		5.8 6.3	0.2 0.3	0.0 0.3	2.6 2.9	13.6 14.9	20.6 22.1	10.4 11.4	10.9 12.1	11.5 12.0	30.6 32.4	6.2 8.1	12.0 22.4
Empire Hill	storage tipping		3.2 3.1	0.0 0.0	0.1 0.0	4.2 4.4	9.1 8.7	9.4 9.8	5.6 5.8	9.4 9.6	11.8 12.2	13.0 12.7	6.1 6.3	5.9 6.2
FAA	storage tipping		2.1 2.0	3.3 3.2	0.3 0.9	2.1 3.0	6.2 7.1	10.6 11.3	7.3 7.7	4.3 5.9	9.4 10.1	11.7 11.5	7.9 7.9	4.9 5.2
Gamboa	storage tipping		1.4 1.4	0.3 0.0	0.1 0.1	3.7 3.6	12.7 13.0	12.2 12.4	6.3 6.3	10.4 10.8	8.2 12.0	14.2 12.5	8.3 8.5	8.5 4.7
Guacha	storage tipping		2.7 2.9	0.8 0.5	0.0 0.1	2.5 2.8	11.8 17.5	10.4 16.0	2.6 8.5	3.8 9.6	3.3 7.2	10.3 18.8	0.1 10.8	3.6 23.9
Hoges Hill	storage tipping		3.5 3.6	0.2 0.0	0.1 0.0	4.6 4.5	10.1 10.2	10.8 11.2	6.1 6.1	9.4 10.1	11.2 11.3	12.0 12.3	3.7 3.9	6.3 6.5
Santa Rosa	storage tipping		1.3 1.3	0.1 0.1	0.4 0.2	2.6 2.6	10.0 9.8	10.6 10.6	8.5 8.7	14.2 2.2	11.4 11.6	14.0 13.9	10.3 1.0	9.8 2.8

Appendix D

Filled-in Monthly Rainfall and Streamflow Data with Time Series and Mass Curve Plots



FILLED-IN RAINFALL DATA

AGUA CLARA (ACL)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	18	61	38	118	583	376	203	240	192	431	437	37	2734
1912	22	53	9	8	342	413	353	274	210	447	494	202	2827
1913	140	94	5	97	374	265	253	313	205	387	446	272	2852
1914	17	48	26	81	331	338	150	429	323	420	300	126	2588
1915	48	335	24	438	203	298	484	334	347	474	486	282	3753
1916	27	66	88	114	296	322	208	174	250	434	503	137	2619
1917	41	17	17	234	333	324	409	433	382	273	658	312	3432
1918	104	18	15	162	401	241	207	398	225	646	257	42	2717
1919	36	11	15	340	243	335	229	276	239	438	196	208	2566
1920	28	21	26	10	143	166	408	429	172	436	252	97	2187
1921	51	71	22	149	377	357	585	619	388	491	602	221	3934
1922	268	41	37	71	288	337	142	184	304	434	430	209	2746
1923	77	14	25	46	306	325	352	372	366	1126	467	181	3658
1924	30	107	22	359	330	357	410	327	302	394	779	182	3601
1925	93	28	21	176	239	305	437	230	422	432	533	138	3054
1926	28	54	24	25	291	557	551	517	219	478	712	268	3725
1927	159	63	44	461	600	485	690	395	457	391	554	105	4403
1928	82	107	163	63	364	269	351	558	324	632	737	425	4074
1929	0	117	98	148	394	483	300	540	222	385	359	152	3198
1930	117	78	45	359	413	292	187	322	356	376	395	310	3251
1931	48	71	326	54	594	350	463	332	344	365	1311	216	4474
1932	135	73	120	182	298	363	276	381	167	630	1412	209	4246
1933	119	58	88	175	368	331	372	295	295	421	775	354	3650
1934	185	24	53	170	383	399	303	311	500	570	594	418	3909
1935	93	123	10	142	346	286	924	429	415	300	1660	307	5035
1936	28	0	29	267	531	172	224	314	417	345	363	251	2940
1937	160	16	12	66	425	317	223	406	282	690	482	818	3895
1938	46	2	54	66	473	521	432	507	350	399	353	959	4161
1939	3	22	102	57	191	434	94	457	475	718	864	290	3708
1940	96	73	14	3	264	323	411	486	250	571	295	95	2881
1941	90	130	122	53	343	357	348	558	402	708	519	211	3841
1942	92	59	165	185	319	392	277	331	418	800	502	416	3956
1943	83	101	25	119	616	488	227	311	358	543	606	730	4207
1944	103	20	15	291	736	206	229	644	158	762	505	564	4233

AGUA CLARA (ACL)
MONTHLY RAINFALL IN MM

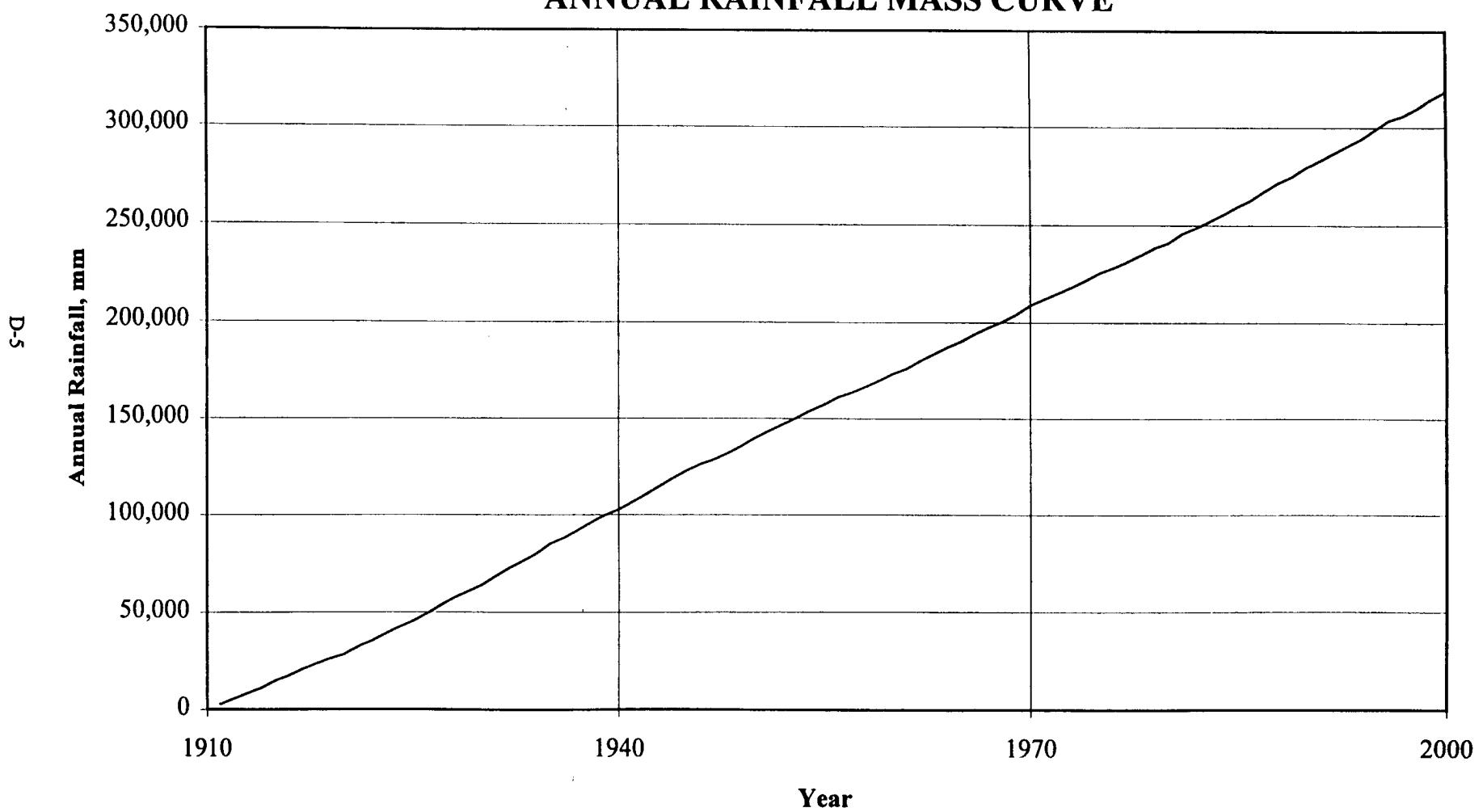
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	34	3	14	50	423	263	530	431	279	397	771	768	3962
1946	16	25	80	29	188	261	431	408	341	409	624	468	3279
1947	7	49	25	112	215	265	310	345	317	440	198	198	2480
1948	74	5	22	83	466	258	622	212	379	376	614	61	3172
1949	14	18	22	50	409	428	284	444	287	434	987	369	3745
1950	11	56	33	119	339	518	358	406	364	379	963	824	4371
1951	68	198	19	208	448	245	277	393	314	430	560	354	3513
1952	98	10	9	161	337	299	429	345	264	790	317	470	3527
1953	234	56	68	72	294	327	319	303	234	658	585	191	3342
1954	23	35	33	231	462	393	616	428	410	311	468	291	3700
1955	375	31	18	8	256	291	228	346	247	459	641	306	3205
1956	249	33	249	115	622	220	321	285	369	599	464	156	3681
1957	8	9	3	6	229	219	159	252	272	463	712	162	2492
1958	254	67	119	80	304	344	349	363	259	328	309	175	2950
1959	18	5	13	108	203	293	240	234	465	356	411	978	3324
1960	69	18	113	375	334	313	225	233	206	478	461	718	3542
1961	28	5	13	90	205	392	252	360	269	454	476	139	2684
1962	69	14	36	96	964	348	441	348	272	382	624	369	3963
1963	0	120	13	57	474	401	306	419	320	420	812	173	3514
1964	22	5	52	194	341	348	437	447	302	775	667	140	3731
1965	76	24	23	39	348	347	81	234	370	579	745	153	3019
1966	103	25	26	181	453	362	332	274	370	393	748	647	3914
1967	32	13	28	155	278	452	368	306	312	515	701	168	3329
1968	3	121	130	17	259	308	345	361	318	439	601	72	2974
1969	59	43	87	160	530	179	412	390	464	520	468	557	3868
1970	391	137	78	320	437	220	259	471	219	478	932	635	4579
1971	163	43	97	15	363	361	414	389	413	462	302	33	3055
1972	300	117	56	241	361	378	117	272	302	536	229	198	3106
1973	86	30	18	20	290	363	401	338	389	335	653	180	3104
1974	43	30	69	33	180	427	292	351	366	734	706	185	3416
1975	66	122	191	23	279	269	533	450	290	701	455	465	3843
1976	53	38	10	185	287	272	81	328	462	513	312	20	2563
1977	104	18	33	79	318	180	292	627	437	381	249	312	3030
1978	61	122	81	460	246	490	411	551	368	338	475	130	3734

AGUA CLARA (ACL)
MONTHLY RAINFALL IN MM

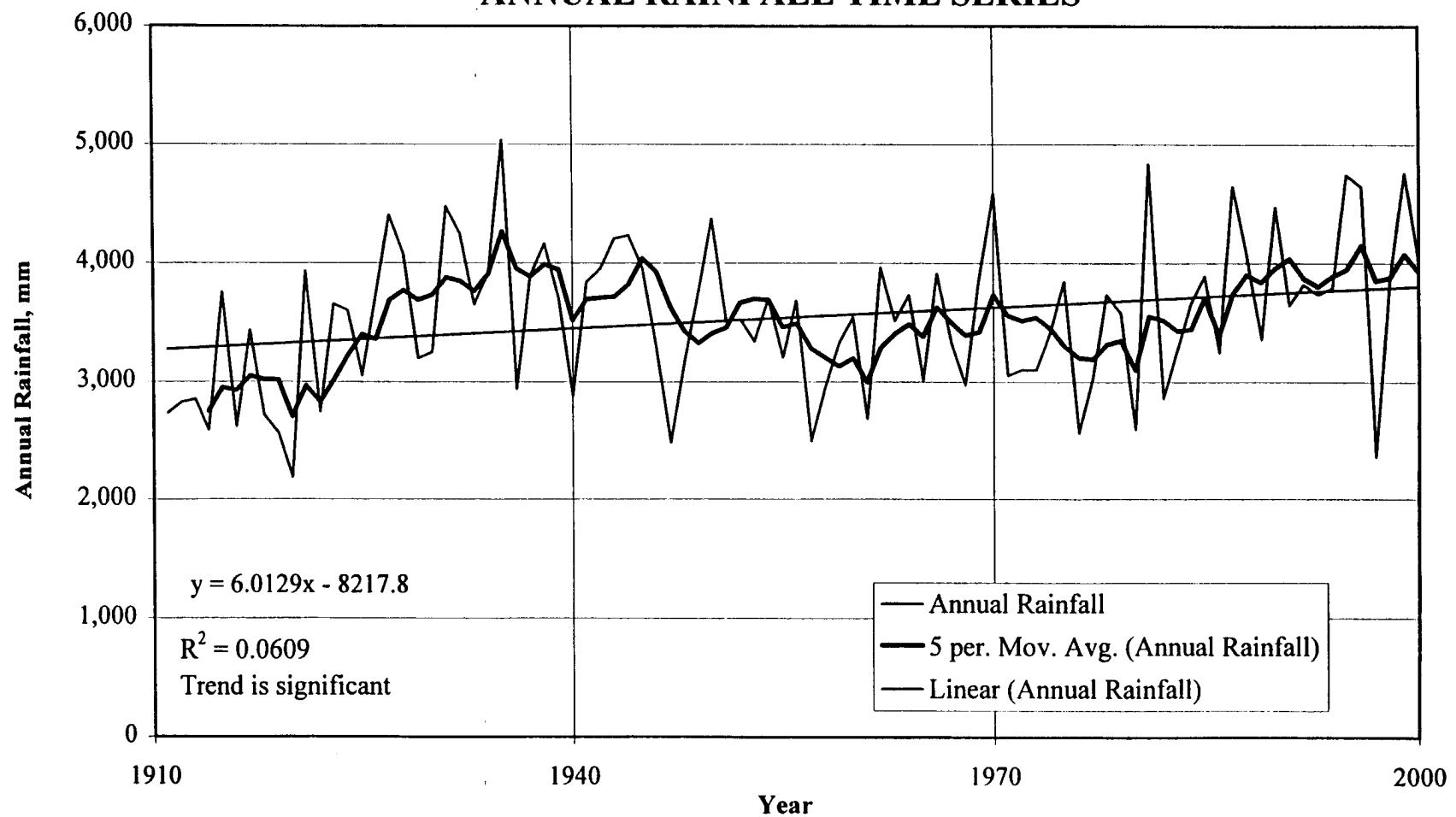
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	18	58	30	345	467	432	234	399	272	549	528	246	3579
1980	251	155	23	89	302	216	254	300	165	262	305	274	2596
1981	462	97	94	488	330	310	246	312	234	417	996	848	4834
1982	264	13	8	208	277	343	330	193	295	630	262	41	2863
1983	84	13	13	211	267	257	213	427	399	488	437	467	3274
1984	160	28	20	66	251	422	399	518	231	726	759	79	3660
1985	53	86	86	56	409	533	249	432	424	434	513	615	3891
1986	112	25	152	173	338	348	226	312	343	843	295	84	3251
1987	81	208	5	704	582	457	442	455	447	871	218	170	4641
1988	18	84	30	23	363	300	516	660	612	759	396	305	4067
1989	23	196	89	8	251	173	442	384	287	465	693	353	3363
1990	36	8	147	66	493	338	373	513	787	861	592	254	4468
1991	41	66	117	117	345	526	391	198	620	373	729	124	3647
1992	84	13	30	371	925	351	348	472	475	363	249	142	3823
1993	290	76	183	221	218	470	338	287	490	452	465	246	3736
1994	178	30	104	48	361	467	427	353	511	528	701	86	3795
1995	262	168	48	198	478	612	437	467	394	394	848	437	4742
1996	683	175	312	201	399	574	213	414	282	234	975	180	4643
1997	33	10	15	20	361	386	140	216	297	216	632	33	2360
1998	43	8	56	307	457	373	373	544	409	381	419	500	3871
1999	20	130	175	373	333	612	516	493	236	353	704	813	4757
2000	107	18	15	114	312	566	262	429	356	846	257	726	4008
Mean	102	61	61	154	371	354	339	381	339	501	567	309	3540
Max	683	335	326	704	964	612	924	660	787	1126	1660	978	5035
Min	0	0	3	3	143	166	81	174	158	216	196	20	2187
Std	113	58	65	134	143	103	140	109	107	168	261	232	636
Skew	2.4	1.8	2.0	1.4	1.7	0.5	1.0	0.4	1.1	1.1	1.4	1.2	0.1
CV	1.1	1.0	1.1	0.9	0.4	0.3	0.4	0.3	0.3	0.3	0.5	0.8	0.2

Note : Estimated rainfall in bold values.

AGUA CLARA (ACL)
ANNUAL RAINFALL MASS CURVE



AGUA CLARA (ACL)
ANNUAL RAINFALL TIME SERIES



ALHAJUELA (ALA)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	4	58	0	124	409	267	225	274	236	340	340	10	2287
1912	2	8	1	5	341	309	258	327	232	343	244	56	2127
1913	24	6	2	18	321	292	178	277	224	163	421	40	1966
1914	2	6	1	43	144	319	183	314	431	582	192	57	2274
1915	22	64	2	227	208	205	399	261	244	422	303	149	2507
1916	17	34	9	148	315	356	307	279	380	491	375	84	2794
1917	3	1	4	28	436	221	328	338	252	348	504	163	2625
1918	24	4	1	173	288	400	223	233	281	306	176	7	2115
1919	19	1	2	230	155	175	342	206	237	393	249	62	2070
1920	13	4	5	21	113	283	529	360	226	640	258	67	2520
1921	5	45	7	24	273	243	445	374	290	547	235	78	2567
1922	100	4	0	4	318	352	193	252	211	425	283	111	2254
1923	17	4	5	3	327	381	145	308	371	704	156	21	2441
1924	1	46	3	116	316	215	387	225	236	336	365	123	2368
1925	65	1	5	123	165	213	324	217	227	310	339	54	2042
1926	2	13	1	0	82	356	422	439	342	368	282	129	2436
1927	17	12	3	131	335	521	366	281	220	183	333	83	2484
1928	18	4	76	56	133	187	245	501	200	346	544	103	2413
1929	5	1	18	56	218	319	355	407	297	473	272	89	2510
1930	6	9	14	175	292	144	364	231	321	258	78	22	1915
1931	6	3	60	56	281	348	325	230	445	204	742	118	2820
1932	27	6	10	146	446	292	172	293	259	444	569	126	2790
1933	26	0	63	6	308	273	263	322	280	192	371	197	2299
1934	36	4	3	114	477	296	244	285	263	470	522	152	2865
1935	21	12	3	41	364	338	572	370	354	377	846	154	3453
1936	2	2	2	26	305	175	330	224	397	356	254	16	2089
1937	39	6	3	23	279	264	241	367	276	343	445	470	2755
1938	5	2	16	98	337	404	202	249	189	394	323	362	2582
1939	1	0	2	3	84	283	179	303	301	376	469	191	2192
1940	55	14	1	4	142	178	196	311	367	429	263	45	2006
1941	14	76	9	103	246	230	352	201	288	372	198	45	2134
1942	25	7	11	159	308	329	214	230	239	437	185	384	2529
1943	97	24	7	130	370	435	227	164	207	282	253	317	2514
1944	18	1	2	126	274	125	289	430	205	582	271	168	2491
1945	5	1	1	27	316	151	337	299	358	240	268	218	2220

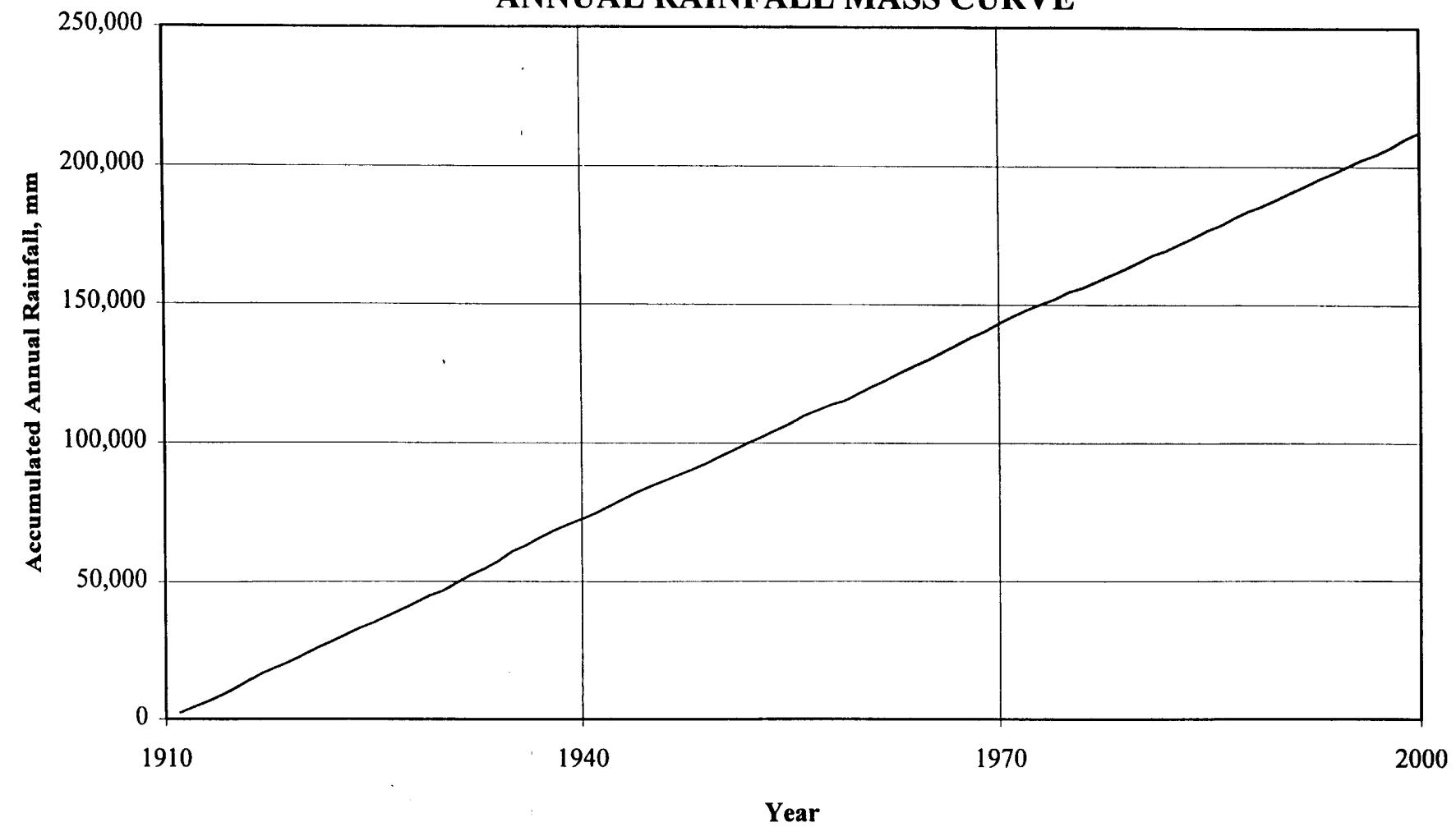
ALHAJUELA (ALA)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1946	11	4	5	4	283	430	294	110	198	164	270	250	2022
1947	0	6	1	75	153	295	286	303	266	314	229	158	2086
1948	4	0	5	9	314	258	305	95	202	341	428	48	2007
1949	4	3	1	48	222	478	212	256	151	394	358	113	2240
1950	2	5	7	57	257	330	385	290	212	226	454	219	2442
1951	4	65	1	140	436	215	275	323	212	240	346	75	2332
1952	24	5	0	38	304	402	385	196	278	428	100	310	2469
1953	79	22	4	85	400	165	418	128	181	287	310	93	2170
1954	12	7	16	86	317	221	421	434	287	314	237	41	2393
1955	130	8	12	2	175	232	352	348	233	221	481	142	2335
1956	108	12	68	89	348	222	324	375	392	509	371	34	2850
1957	1	2	1	1	183	270	304	262	235	407	315	25	2005
1958	52	7	23	37	337	195	340	265	244	226	248	41	2015
1959	14	0	1	5	126	238	132	271	164	162	128	228	1468
1960	31	2	44	101	302	280	325	296	267	364	328	356	2696
1961	3	1	26	147	188	391	209	351	376	349	324	162	2526
1962	13	0	37	27	283	234	316	245	330	482	204	130	2303
1963	132	31	3	141	132	329	248	461	484	260	372	20	2612
1964	3	1	10	195	253	309	360	257	279	332	327	45	2371
1965	18	1	0	1	276	231	200	262	284	289	501	161	2223
1966	7	8	5	64	356	273	237	209	353	202	633	364	2711
1967	19	5	1	64	138	361	443	328	510	328	333	82	2613
1968	0	46	5	40	340	465	249	495	382	302	331	84	2739
1969	29	4	40	188	125	211	293	275	408	270	306	111	2262
1970	130	6	41	186	358	224	328	292	366	305	366	259	2859
1971	124	3	66	18	320	267	343	409	325	452	269	8	2604
1972	152	5	38	213	257	297	173	188	419	325	208	102	2377
1973	10	0	0	28	224	246	246	130	368	257	373	104	1986
1974	3	0	15	13	211	462	226	249	221	353	206	30	1989
1975	13	3	23	5	201	249	465	300	262	475	246	196	2436
1976	8	0	0	56	165	272	84	122	264	381	188	8	1547
1977	5	10	0	3	361	239	137	472	320	391	175	145	2258
1978	10	13	20	236	211	259	257	318	208	368	295	61	2256
1979	0	5	0	287	231	226	305	330	109	330	356	51	2230
1980	66	20	0	23	302	325	274	434	231	343	318	76	2413

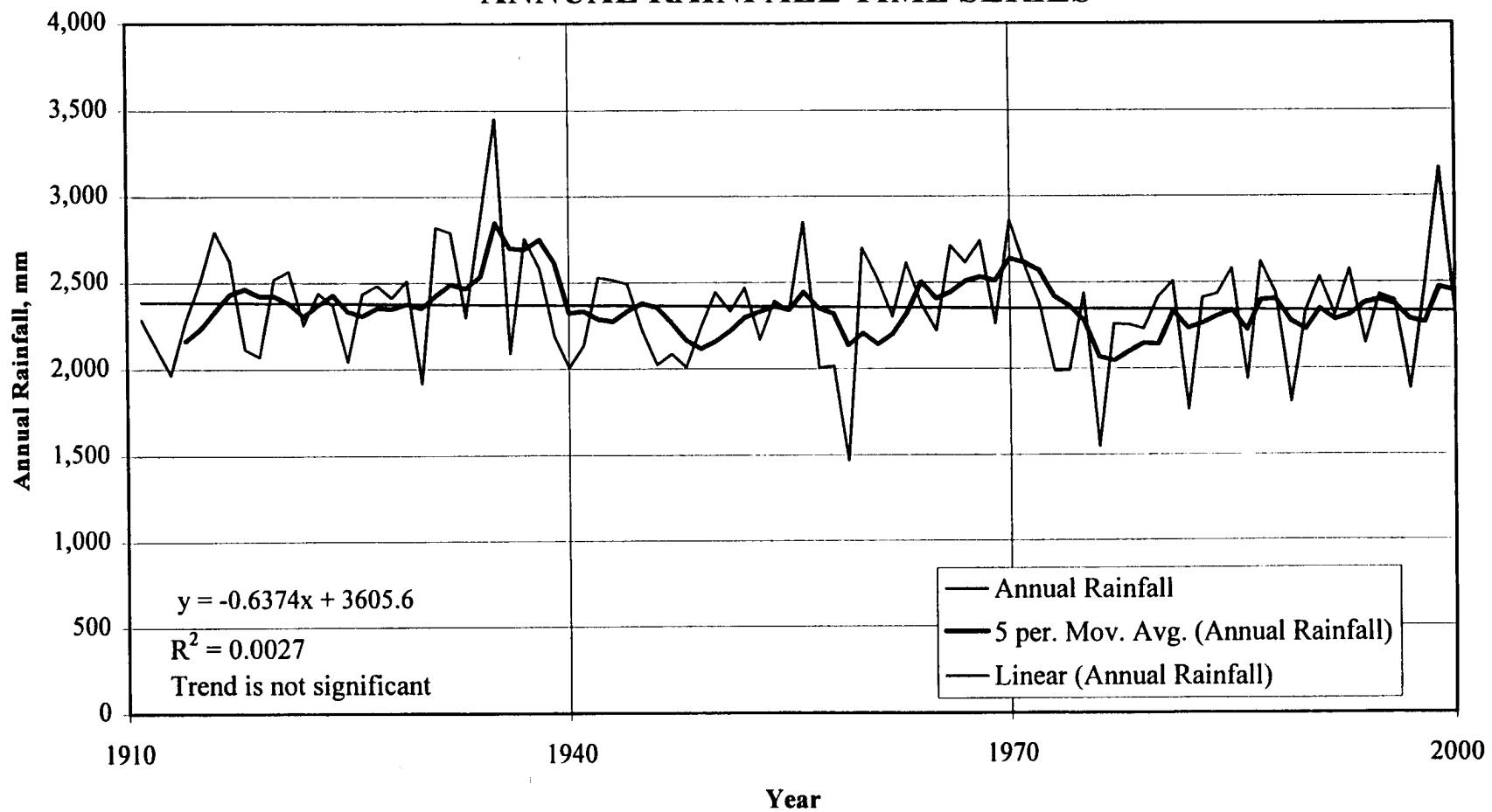
ALHAJUELA (ALA)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1981	23	3	58	284	343	338	348	246	102	241	348	170	2504
1982	84	5	0	74	234	231	244	79	284	366	160	3	1763
1983	8	0	0	79	277	198	185	203	442	511	401	107	2410
1984	13	10	23	56	287	302	170	399	333	394	437	10	2433
1985	18	13	15	23	366	338	231	218	536	241	371	208	2578
1986	15	8	79	124	66	361	145	185	196	518	216	25	1938
1987	3	5	10	312	216	378	310	267	422	389	203	102	2616
1988	0	3	3	107	145	300	465	282	333	389	330	84	2438
1989	0	13	5	5	86	196	168	218	211	396	386	122	1806
1990	13	3	3	3	213	124	264	333	226	655	259	234	2329
1991	20	5	28	117	312	429	432	269	284	323	287	23	2530
1992	5	0	28	119	241	310	272	343	467	249	208	66	2309
1993	76	5	51	157	224	333	213	211	447	378	414	64	2573
1994	23	0	25	36	224	325	196	257	257	460	315	30	2146
1995	5	0	13	91	249	244	272	351	320	307	399	175	2426
1996	345	30	48	94	262	206	173	287	229	279	358	84	2395
1997	0	0	5	91	358	351	185	178	274	224	211	5	1882
1998	0	3	0	51	229	343	351	333	340	203	368	254	2474
1999	53	145	3	132	183	419	216	411	254	305	455	587	3162
2000	28	0	23	56	251	310	279	330	203	312	201	323	2316
Mean	30	12	14	83	262	289	285	287	290	356	324	128	2359
Max	345	145	79	312	477	521	572	501	536	704	846	587	3453
Min	0	0	0	0	66	124	84	79	102	162	78	3	1468
Std	49	21	20	74	90	84	94	88	88	111	128	112	319
Skew	3.7	3.8	1.8	1.0	-0.1	0.4	0.5	0.1	0.6	0.7	1.3	1.6	0.1
CV	1.6	1.8	1.4	0.9	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.9	0.1

ALHAJUELA (ALA)
ANNUAL RAINFALL MASS CURVE



ALHAJUELA (ALA)
ANNUAL RAINFALL TIME SERIES



BALBOA HEIGHT (BHT)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	21	70	7	161	280	86	147	183	153	277	192	51	1628
1912	0	2	0	68	272	147	260	161	213	454	162	83	1823
1913	16	6	11	1	210	207	123	208	290	211	270	123	1676
1914	8	1	0	122	177	185	110	155	244	164	263	210	1638
1915	54	75	0	136	163	72	176	387	94	266	179	91	1695
1916	36	38	23	72	320	112	257	267	204	258	223	149	1958
1917	3	5	1	57	146	187	258	188	293	156	350	104	1748
1918	45	0	32	115	171	132	130	98	179	233	244	14	1392
1919	7	0	0	163	132	227	121	148	275	308	126	46	1553
1920	0	0	2	77	84	123	157	310	232	165	488	49	1687
1921	22	60	76	30	218	200	205	242	83	352	181	132	1801
1922	44	52	26	4	251	201	129	37	208	229	214	97	1492
1923	20	0	0	21	148	142	80	136	117	382	224	100	1370
1924	0	1	2	94	140	214	152	367	319	264	314	211	2077
1925	37	2	2	67	171	466	97	275	229	187	89	48	1669
1926	0	2	0	2	106	313	252	265	214	252	245	213	1864
1927	5	51	0	119	230	275	209	197	166	212	148	75	1686
1928	1	8	103	86	107	223	201	175	265	272	521	177	2137
1929	4	1	56	11	103	237	133	304	235	200	321	106	1710
1930	1	22	0	172	246	64	103	110	193	209	130	62	1313
1931	0	0	18	37	334	198	266	109	282	235	320	126	1925
1932	10	12	3	192	239	234	160	193	184	295	259	68	1847
1933	41	8	12	88	202	365	153	166	132	149	337	187	1839
1934	103	2	5	129	126	276	137	115	416	291	327	69	1995
1935	22	9	0	61	206	192	334	290	119	273	500	109	2116
1936	21	0	9	42	162	232	151	156	219	241	211	47	1489
1937	129	14	62	34	279	189	167	97	277	232	259	427	2164
1938	56	0	6	49	306	241	191	300	209	323	285	201	2168
1939	11	0	0	24	117	321	129	130	206	328	166	158	1591
1940	80	3	19	27	184	153	158	117	355	163	136	5	1400
1941	22	13	4	120	229	151	154	296	203	324	191	137	1846
1942	8	11	49	57	309	142	158	137	206	203	214	285	1779
1943	30	23	38	91	170	273	165	165	200	261	192	217	1825
1944	20	0	0	91	212	390	123	368	154	287	197	104	1947

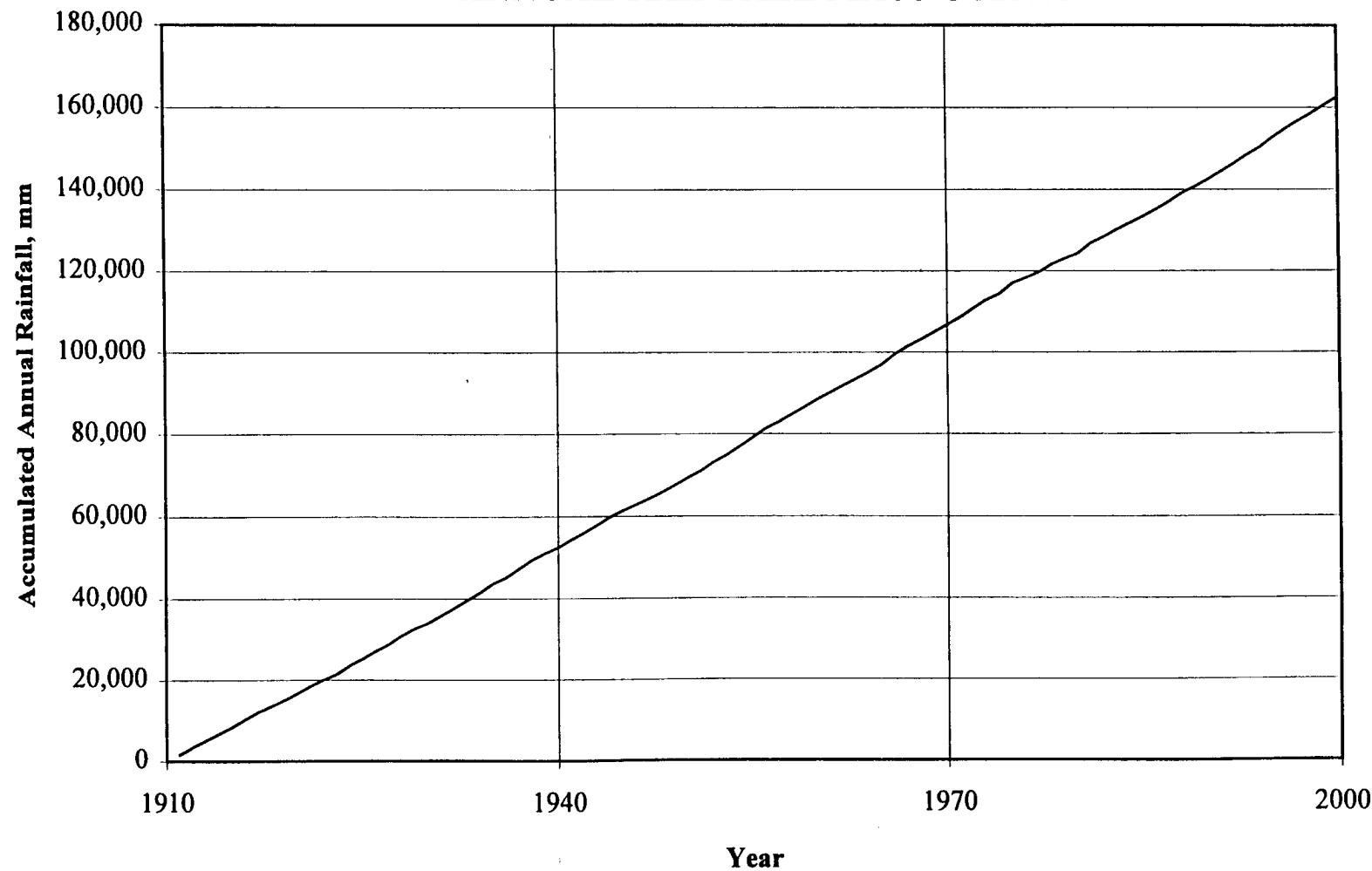
BALBOA HEIGHT (BHT)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	19	3	0	47	107	131	150	162	131	441	241	191	1622
1946	31	1	28	23	61	106	189	167	67	357	205	131	1365
1947	28	13	1	45	127	154	184	148	137	246	260	142	1485
1948	32	1	0	3	131	161	162	105	167	346	324	59	1490
1949	4	0	7	53	222	196	170	205	154	297	256	176	1739
1950	7	4	48	44	245	302	308	212	96	180	275	117	1838
1951	36	40	9	124	209	101	126	74	249	333	218	103	1622
1952	10	3	3	15	383	165	216	129	218	376	276	342	2134
1953	68	63	39	2	224	190	135	171	180	357	160	133	1720
1954	15	22	5	85	220	337	210	216	220	360	346	97	2132
1955	110	62	15	10	160	212	256	287	210	164	400	253	2139
1956	67	31	10	57	275	257	332	292	127	341	258	67	2114
1957	11	0	0	47	233	145	273	256	144	246	220	15	1591
1958	20	4	0	76	266	140	160	245	349	253	321	70	1904
1959	27	0	0	37	234	116	142	194	147	470	203	215	1785
1960	114	22	14	173	185	136	142	298	153	146	283	215	1882
1961	17	19	5	53	128	272	213	150	183	269	216	120	1645
1962	15	1	4	11	141	259	145	163	137	342	340	209	1767
1963	49	97	3	153	127	187	213	174	131	194	266	20	1616
1964	0	12	0	166	171	154	137	244	176	268	305	79	1711
1965	34	2	0	7	334	125	92	197	231	307	436	103	1868
1966	61	0	3	81	340	353	289	90	279	590	233	129	2448
1967	5	0	44	151	133	166	206	308	330	189	302	220	2054
1968	0	44	20	14	174	197	265	204	119	248	189	74	1547
1969	75	43	9	172	194	154	122	296	175	179	311	124	1855
1970	94	2	17	81	326	136	150	176	213	207	202	195	1799
1971	226	8	17	79	140	174	134	242	238	296	266	59	1879
1972	263	40	12	216	175	431	68	161	284	288	166	82	2187
1973	3	0	1	34	233	347	238	104	217	368	374	182	2101
1974	33	47	4	9	198	164	235	163	137	298	211	32	1530
1975	25	7	1	65	128	157	234	328	86	617	660	274	2581
1976	25	0	5	25	173	183	135	112	135	323	127	66	1308
1977	0	3	0	15	152	249	127	165	208	135	201	61	1316
1978	8	3	51	163	201	290	109	183	236	297	302	188	2029

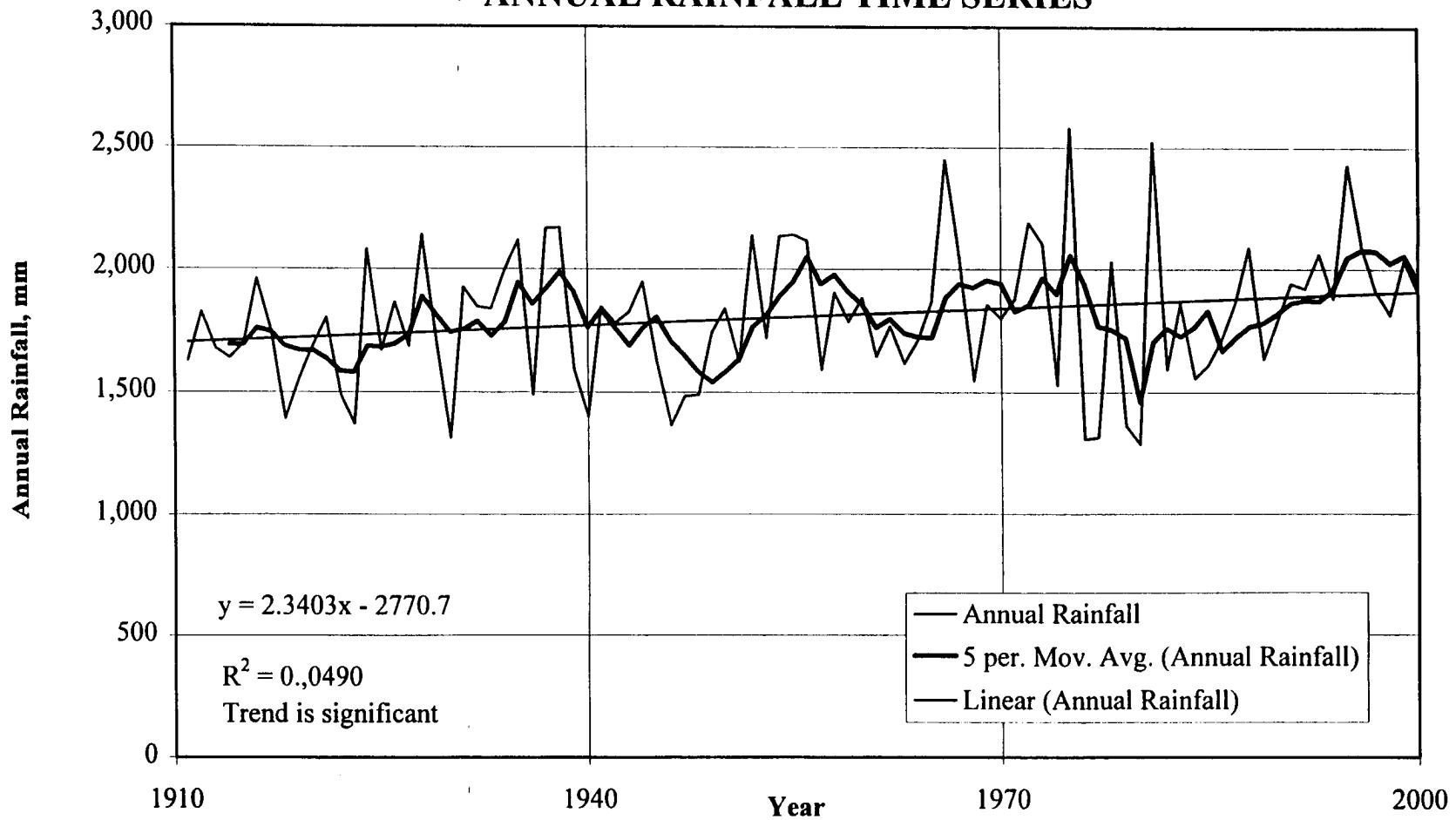
BALBOA HEIGHT (BHT)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	0	0	18	124	114	84	71	262	132	244	152	163	1364
1980	33	13	0	20	206	81	117	173	213	165	191	76	1288
1981	5	13	23	373	462	241	267	231	251	198	221	239	2525
1982	99	0	0	117	127	114	216	165	297	259	163	36	1593
1983	0	0	0	41	290	218	163	297	185	361	201	104	1859
1984	61	107	5	18	114	145	168	241	213	338	147	0	1557
1985	30	0	10	0	150	277	124	107	300	269	180	163	1610
1986	48	3	5	119	183	163	135	137	249	348	224	104	1717
1987	0	18	5	145	246	211	254	155	157	356	239	76	1862
1988	0	3	5	10	279	297	221	351	244	312	244	119	2085
1989	71	15	10	0	109	104	157	356	114	244	348	107	1636
1990	48	18	0	69	284	274	287	183	132	234	150	107	1786
1991	28	0	25	117	333	224	274	124	333	221	226	38	1943
1992	0	5	0	8	234	208	229	262	264	318	251	145	1923
1993	51	0	84	74	378	157	376	218	229	145	226	122	2060
1994	3	28	66	66	302	218	122	208	124	295	371	76	1880
1995	0	5	61	66	338	417	262	269	351	330	122	206	2426
1996	122	76	69	89	315	239	191	155	140	257	312	127	2090
1997	124	15	0	3	196	203	206	99	371	348	345	0	1910
1998	0	15	0	69	279	257	226	185	241	211	155	175	1814
1999	38	15	74	58	287	244	284	137	193	155	307	239	2032
2000	43	36	13	66	198	279	203	165	231	333	193	150	1910
Mean	36	16	16	73	210	207	184	199	207	277	253	127	1806
Max	263	107	103	373	462	466	376	387	416	617	660	427	2581
Min	0	0	0	0	61	64	68	37	67	135	89	0	1288
Std	46	24	23	62	79	83	65	76	72	89	95	77	276
Skew	2.6	1.9	1.9	1.6	0.6	0.8	0.6	0.5	0.5	1.1	1.4	1.0	0.4
CV	1.3	1.4	1.5	0.8	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.6	0.2

BALBOA HEIGHT (BHI)
ANNUAL RAINFALL MASS CURVE



BALBOA HEIGHT (BHT)
ANNUAL RAINFALL TIME SERIES



BARRO COLORADO (BCI)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	58	54	25	209	370	250	294	257	269	555	408	24	2773
1912	15	51	1	49	217	215	262	305	282	553	271	208	2428
1913	65	28	0	55	339	215	199	434	351	297	457	241	2679
1914	74	70	34	63	223	431	109	363	372	368	505	230	2841
1915	63	193	34	342	201	343	284	255	243	449	483	339	3230
1916	30	101	91	182	246	269	208	372	206	454	328	158	2647
1917	8	0	14	66	248	358	284	354	284	219	591	232	2658
1918	136	20	23	142	350	252	124	200	238	495	336	99	2413
1919	132	14	21	308	161	179	231	174	277	351	192	130	2169
1920	51	35	27	22	106	253	267	252	240	496	359	69	2176
1921	118	76	16	83	198	249	378	363	350	249	336	170	2586
1922	194	58	0	64	479	323	82	215	346	293	170	83	2306
1923	48	52	44	103	240	290	251	387	219	801	369	20	2825
1924	2	138	50	216	355	290	469	278	434	326	815	199	3573
1925	0	55	28	100	146	345	346	339	351	565	349	110	2734
1926	27	74	13	7	216	447	382	309	307	353	559	310	3003
1927	77	37	32	193	483	370	342	315	273	247	415	172	2956
1928	44	12	57	42	239	239	244	423	206	303	475	294	2579
1929	12	2	67	48	350	249	319	398	176	252	310	48	2231
1930	49	16	7	84	255	188	184	151	293	154	299	267	1945
1931	30	25	141	97	431	381	464	196	194	322	783	68	3132
1932	44	8	30	112	195	300	323	271	175	357	789	278	2883
1933	63	1	31	3	178	239	231	260	231	162	831	354	2584
1934	39	19	46	146	306	229	269	310	507	348	500	390	3109
1935	42	150	13	94	257	302	726	209	231	219	1056	343	3643
1936	19	5	42	57	295	138	269	344	327	502	299	86	2385
1937	62	5	5	27	326	262	211	492	252	322	473	715	3153
1938	57	29	36	85	424	490	265	356	154	349	244	484	2974
1939	12	2	10	17	78	340	230	240	383	398	924	297	2933
1940	117	65	38	8	232	316	140	296	274	413	242	57	2197
1941	59	75	24	13	204	218	301	306	185	441	394	112	2332
1942	71	40	69	114	280	161	226	290	356	475	208	531	2822
1943	49	44	56	73	372	362	269	390	264	258	547	371	3055
1944	58	19	11	164	403	261	189	545	186	435	183	390	2844

BARRO COLORADO (BCI)
MONTHLY RAINFALL IN MM

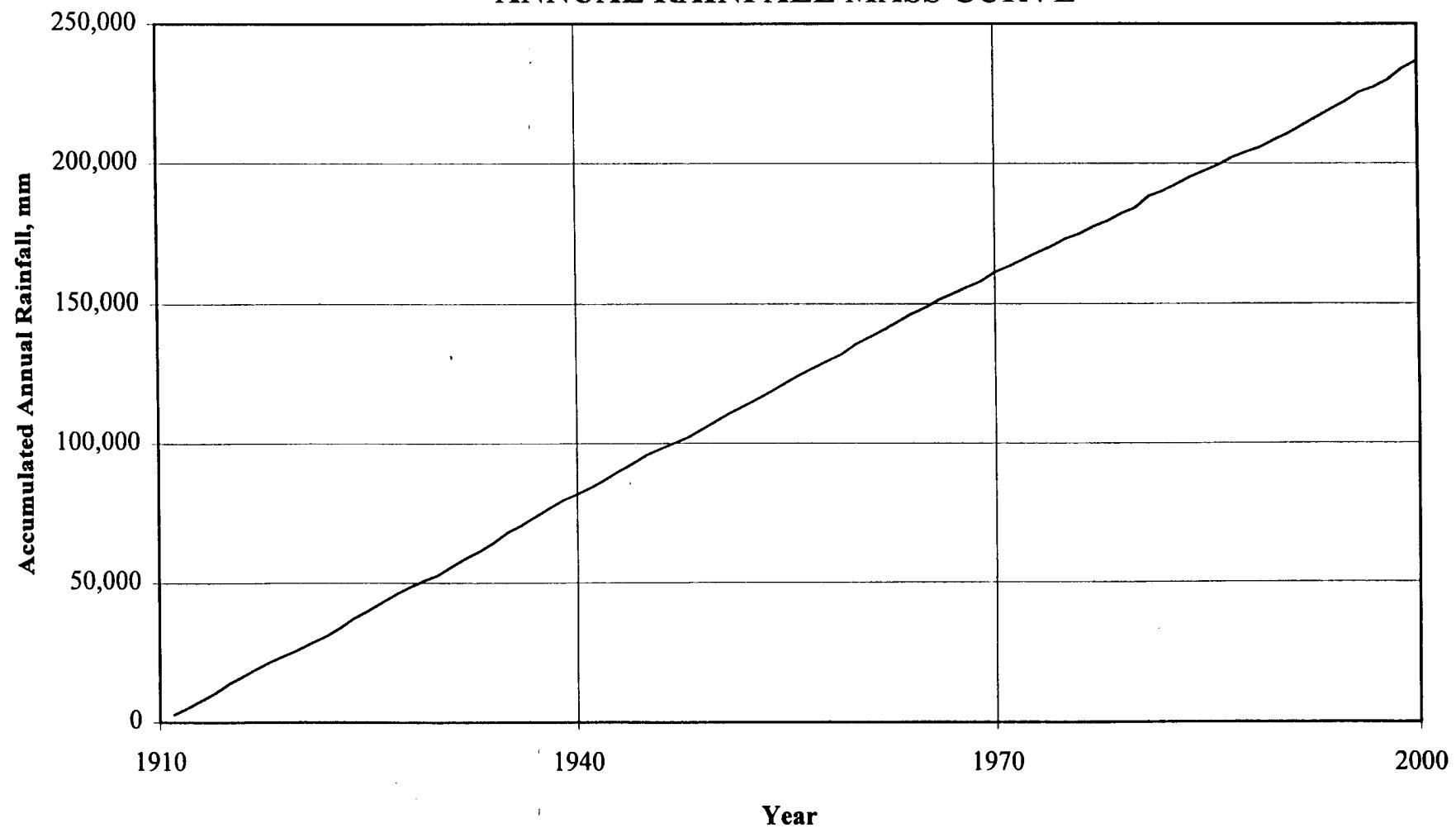
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	73	17	7	40	344	258	352	313	256	255	523	620	3059
1946	11	8	43	36	204	202	314	267	271	229	380	248	2214
1947	10	54	14	78	122	306	191	299	242	335	184	143	1979
1948	47	5	4	74	274	161	291	266	171	273	516	31	2112
1949	18	2	3	23	304	395	340	254	181	367	832	199	2917
1950	5	48	12	69	200	372	314	292	183	356	614	443	2909
1951	56	96	8	217	310	278	136	287	244	494	410	328	2863
1952	61	10	3	139	315	299	153	231	283	431	241	316	2481
1953	109	18	32	169	234	97	405	396	145	464	490	110	2668
1954	32	33	5	79	282	306	382	328	284	334	435	184	2684
1955	230	12	23	9	269	344	292	289	235	415	466	323	2906
1956	141	54	57	66	420	174	497	241	286	473	314	173	2897
1957	14	13	1	1	162	152	276	556	315	437	456	104	2488
1958	108	186	76	120	310	226	242	314	270	392	182	119	2545
1959	8	4	3	34	226	211	225	219	373	229	259	620	2410
1960	75	24	114	464	394	293	291	178	241	495	420	568	3557
1961	31	6	18	138	200	272	188	501	339	437	275	151	2558
1962	47	17	2	47	326	257	337	336	345	214	351	275	2553
1963	202	80	42	162	231	151	326	479	205	259	549	82	2767
1964	6	6	5	116	402	489	443	217	290	429	407	67	2877
1965	71	7	5	27	251	207	197	251	303	276	584	179	2357
1966	82	4	11	81	175	347	235	360	252	325	602	356	2831
1967	12	13	13	111	160	344	222	278	177	302	385	165	2181
1968	2	45	91	15	293	259	166	403	180	474	262	46	2238
1969	44	13	11	127	254	153	312	153	222	316	331	260	2195
1970	300	72	36	107	457	216	338	358	131	277	507	427	3227
1971	106	17	57	3	573	161	247	239	257	175	300	23	2157
1972	157	84	23	140	221	292	127	246	351	384	157	185	2367
1973	53	20	5	25	300	353	241	170	305	267	582	81	2403
1974	5	15	38	13	112	290	330	279	249	452	396	119	2299
1975	3	18	41	58	315	229	226	333	315	424	356	445	2761
1976	23	0	5	66	191	249	89	216	368	251	216	33	1707
1977	25	58	23	15	244	218	180	630	295	414	429	64	2596
1978	8	18	48	196	183	211	290	284	135	312	295	25	2004

BARRO COLORADO (BCI)
MONTHLY RAINFALL IN MM

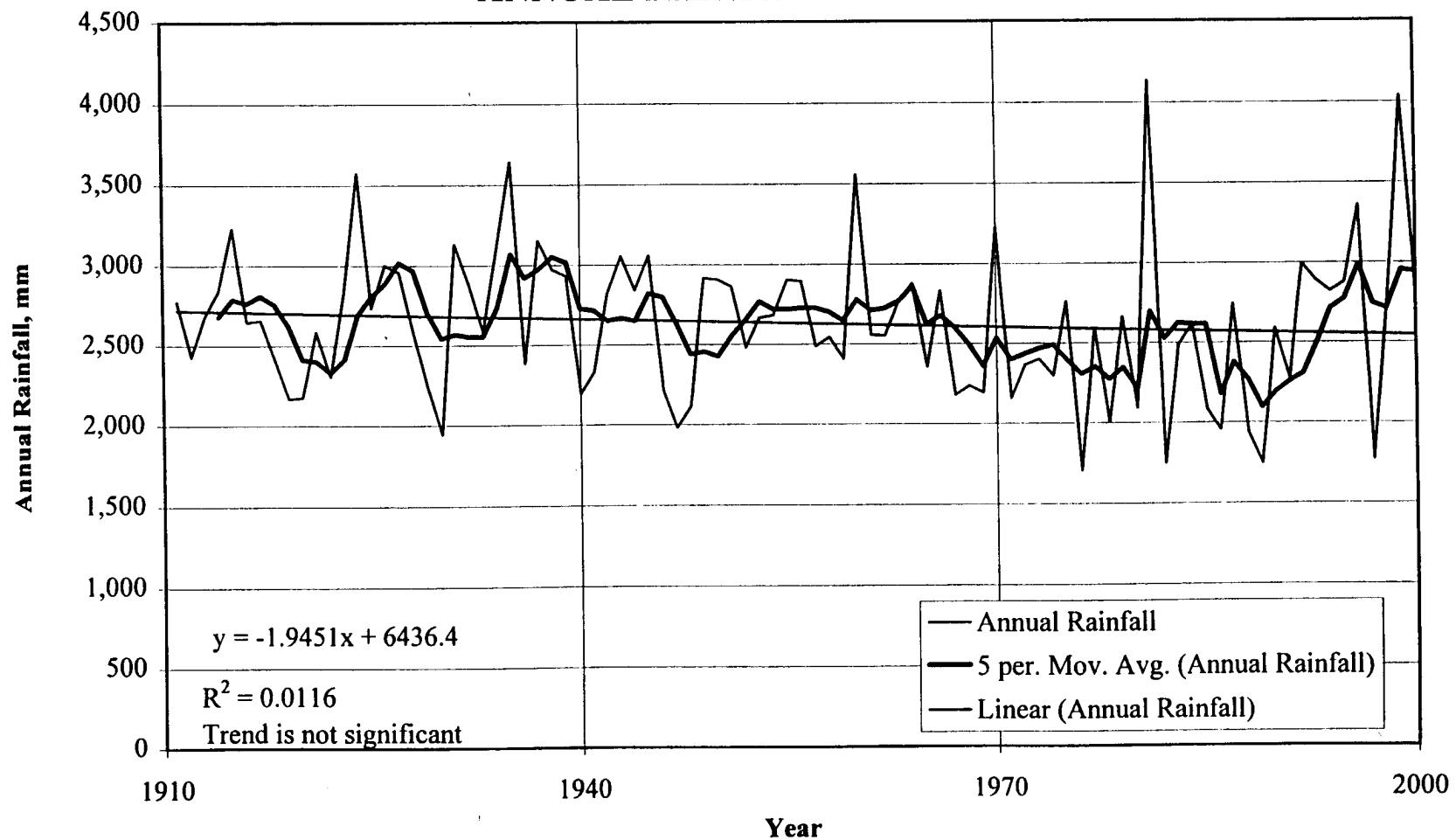
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	5	30	8	310	249	384	325	330	272	257	272	224	2664
1980	112	48	5	20	259	208	193	257	168	292	351	180	2093
1981	399	20	61	340	411	470	315	406	216	340	648	505	4133
1982	114	18	5	94	168	178	170	295	287	290	102	30	1750
1983	23	0	3	94	246	284	305	229	345	269	422	269	2489
1984	104	69	23	58	236	272	236	343	279	538	439	20	2619
1985	25	25	23	5	287	203	251	236	163	358	196	310	2083
1986	61	8	46	97	109	226	86	297	257	452	185	132	1956
1987	5	53	0	231	391	163	310	442	340	338	287	183	2743
1988	10	28	8	23	246	196	137	137	297	373	251	231	1938
1989	5	53	23	8	53	132	229	236	109	381	330	188	1748
1990	15	8	51	157	457	130	328	224	376	422	262	160	2588
1991	15	25	163	18	315	203	274	229	305	254	406	69	2276
1992	33	5	0	152	467	358	244	320	457	427	363	168	2995
1993	109	25	56	135	165	221	310	226	511	414	475	244	2891
1994	79	0	61	43	335	345	417	404	295	328	472	43	2822
1995	175	33	10	145	404	445	305	221	224	323	297	300	2880
1996	381	107	86	25	447	480	231	300	307	366	516	112	3358
1997	20	43	3	20	328	287	170	206	183	231	279	3	1773
1998	15	30	41	216	241	335	363	358	249	366	114	406	2736
1999	33	41	117	224	287	582	353	589	330	272	544	665	4036
2000	155	10	3	170	188	272	213	312	175	594	264	452	2809
Mean	67	37	31	100	277	277	270	308	270	363	408	225	2633
Max	399	193	163	464	573	582	726	630	511	801	1056	715	4133
Min	0	0	0	1	53	97	82	137	109	154	102	3	1707
Std	75	39	32	88	102	94	99	97	79	109	183	164	472
Skew	2.4	2.0	1.8	1.5	0.4	0.7	1.1	1.0	0.6	0.8	1.1	0.9	0.5
CV	1.1	1.0	1.0	0.9	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.7	0.2

Note : Estimated rainfall in bold values.

BARRO COLORADO (BCI)
ANNUAL RAINFALL MASS CURVE



BARRO COLORADO (BCI)
ANNUAL RAINFALL TIME SERIES



CANDELARIA (CDL)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	75	36	61	190	479	337	189	260	315	491	426	167	3027
1912	26	51	0	64	278	259	200	373	331	333	376	206	2497
1913	28	41	50	43	624	382	347	354	339	419	294	131	3053
1914	42	33	61	9	226	267	132	352	527	524	382	196	2751
1915	0	244	28	448	313	385	441	246	290	390	620	347	3752
1916	110	105	63	317	326	234	564	281	327	456	313	204	3302
1917	0	0	4	36	392	364	392	411	264	303	537	291	2996
1918	151	52	22	220	374	362	269	270	306	462	239	18	2744
1919	195	45	19	460	268	291	373	409	361	333	283	407	3444
1920	46	84	58	162	318	265	637	462	269	430	297	107	3136
1921	28	126	35	209	323	300	210	458	370	337	304	375	3073
1922	134	51	46	37	465	271	158	193	246	326	528	457	2912
1923	141	48	0	52	332	355	114	232	337	717	265	219	2812
1924	116	86	39	307	305	383	306	565	468	398	321	186	3482
1925	202	39	9	161	208	494	558	257	467	513	248	150	3307
1926	80	43	46	56	310	501	521	370	366	380	344	467	3483
1927	178	217	95	311	511	298	620	257	402	297	512	768	4463
1928	158	25	119	0	199	473	265	387	334	426	544	427	3358
1929	45	60	32	17	243	416	367	412	202	297	448	99	2637
1930	74	75	42	184	338	241	303	173	390	233	324	80	2458
1931	149	45	163	98	491	328	305	236	276	507	941	343	3881
1932	94	1	8	122	351	387	228	222	227	573	798	307	3319
1933	87	31	37	168	364	249	456	361	367	175	504	421	3220
1934	64	22	25	57	260	389	279	265	267	422	492	268	2811
1935	228	62	64	123	403	261	592	375	268	404	1406	512	4698
1936	54	23	39	114	483	223	412	405	292	272	519	67	2902
1937	253	57	29	87	433	405	439	330	326	371	449	611	3789
1938	54	69	22	296	670	471	250	441	351	177	289	566	3656
1939	25	8	38	59	156	331	180	484	311	195	515	285	2585
1940	161	91	46	48	355	304	288	471	287	363	422	61	2897
1941	68	141	86	62	352	357	310	430	249	806	499	108	3469
1942	51	39	134	177	312	584	275	420	272	557	197	335	3351
1943	105	170	29	191	285	349	242	379	421	300	242	571	3285
1944	93	91	23	257	367	245	503	508	259	484	421	724	3974

CANDELARIA (CDL)
MONTHLY RAINFALL IN MM

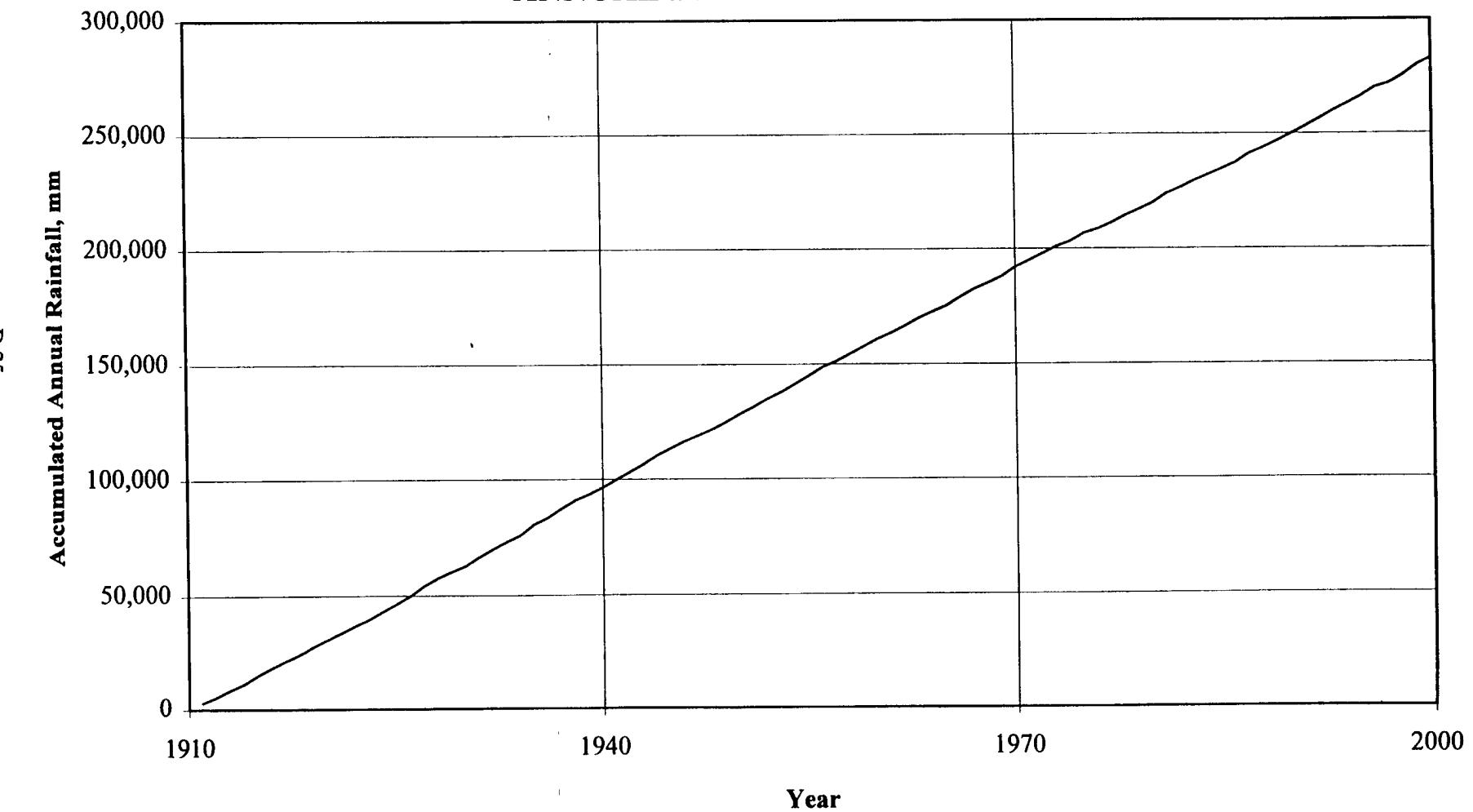
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	82	38	17	93	331	517	363	427	249	226	288	373	3004
1946	23	44	32	49	422	311	475	273	455	317	150	523	3072
1947	20	51	22	172	150	386	256	344	262	347	244	248	2502
1948	55	13	19	30	226	412	325	260	221	288	572	94	2515
1949	23	38	29	119	251	541	408	359	460	360	395	233	3217
1950	49	99	26	272	304	293	512	446	422	181	362	446	3410
1951	52	323	33	231	369	281	299	371	275	361	255	261	3110
1952	113	29	9	209	372	256	456	471	381	706	213	385	3598
1953	323	51	57	131	393	183	367	270	159	402	327	304	2965
1954	51	74	47	137	374	417	416	361	399	244	550	406	3477
1955	404	23	71	27	226	200	390	628	325	203	728	272	3495
1956	319	70	122	119	580	390	450	344	328	316	541	155	3735
1957	33	33	3	8	294	222	190	289	269	350	585	216	2492
1958	156	87	119	38	324	321	540	334	379	296	359	209	3162
1959	33	12	8	97	199	327	313	275	404	338	465	805	3276
1960	158	33	94	334	431	249	241	322	407	257	320	506	3350
1961	44	19	18	165	214	472	263	320	286	420	298	107	2626
1962	75	16	23	215	481	256	429	380	264	323	262	254	2979
1963	283	141	15	324	468	403	334	470	280	327	313	83	3439
1964	14	24	9	136	291	448	386	476	258	305	363	58	2768
1965	116	26	13	6	412	334	184	182	309	400	408	321	2712
1966	131	16	34	418	309	309	283	332	271	361	728	460	3652
1967	85	26	45	322	264	556	386	337	351	404	412	347	3535
1968	15	80	87	74	415	336	310	265	227	408	283	136	2637
1969	68	33	58	274	274	169	217	359	452	159	214	447	2724
1970	500	106	75	329	490	190	277	478	227	318	445	645	4080
1971	84	48	185	33	287	467	411	363	274	307	366	81	2908
1972	488	46	25	216	368	279	198	251	277	320	249	208	2926
1973	58	33	3	25	315	229	434	414	272	290	584	325	2982
1974	53	20	28	43	264	208	378	201	325	315	389	74	2299
1975	41	13	18	8	320	592	386	437	396	447	356	417	3429
1976	76	46	58	170	282	48	43	150	386	211	236	81	1788
1977	86	10	20	30	191	318	284	485	307	536	325	155	2748
1978	25	84	79	340	351	472	292	279	345	333	434	107	3142

CANDELARIA (CDL)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	15	48	61	292	292	284	241	244	165	234	384	343	2604
1980	211	127	23	71	340	368	198	335	297	396	305	249	2921
1981	394	104	94	711	356	340	518	244	183	378	302	404	4028
1982	130	23	15	140	206	335	452	305	249	419	137	64	2474
1983	41	20	41	165	368	305	145	236	447	531	193	554	3045
1984	66	36	8	36	221	467	353	442	361	257	175	206	2626
1985	74	48	79	81	193	363	244	150	386	315	274	343	2550
1986	91	13	58	318	391	358	119	277	445	284	198	74	2626
1987	51	74	8	526	556	373	475	368	358	500	526	122	3937
1988	28	84	41	33	330	323	508	353	127	343	239	231	2639
1989	69	178	30	36	300	173	442	462	262	312	343	267	2873
1990	160	30	102	89	404	203	292	394	315	561	312	224	3086
1991	13	58	51	109	406	284	279	356	460	401	617	114	3150
1992	51	25	33	290	701	277	338	521	429	272	282	157	3376
1993	124	25	279	353	251	612	198	188	460	500	287	157	3437
1994	41	43	119	20	437	528	315	521	290	279	518	89	3200
1995	157	15	20	137	290	551	485	216	206	333	394	394	3198
1996	389	124	84	198	422	422	203	356	343	259	648	478	3924
1997	46	61	5	0	399	264	193	53	244	409	175	25	1875
1998	38	46	23	188	330	404	389	488	384	325	290	437	3340
1999	109	241	147	335	381	363	455	328	523	353	335	1001	4572
2000	127	74	41	91	272	460	198	351	259	467	198	655	3193
Mean	110	62	49	162	347	347	336	347	324	369	394	298	3144
Max	500	323	279	711	701	612	637	628	527	806	1406	1001	4698
Min	0	0	0	0	150	48	43	53	127	159	137	18	1788
Std	105	56	46	136	107	108	126	104	83	118	186	196	527
Skew	2.0	2.3	2.2	1.3	0.9	0.3	0.2	0.0	0.2	1.1	2.3	1.0	0.4
CV	1.0	0.9	0.9	0.8	0.3	0.3	0.4	0.3	0.3	0.3	0.5	0.7	0.2

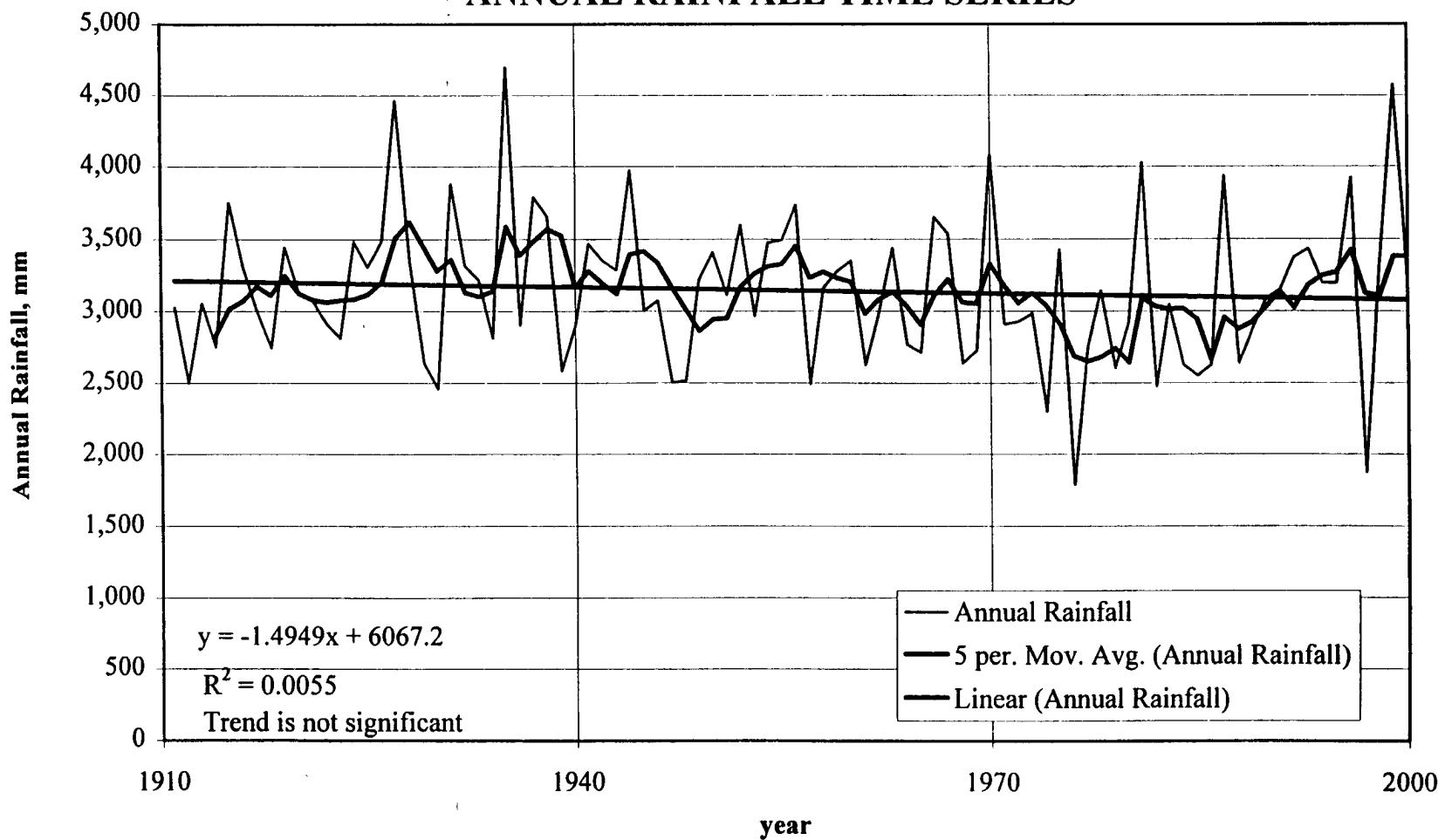
Note : Estimated rainfall in bold values.

CANDELARIA (CDL)
ANNUAL RAINFALL MASS CURVE



CANDELARIA (CDL)
ANNUAL RAINFALL TIME SERIES

D
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CANO (CNO)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	36	26	31	174	371	127	67	174	198	480	308	52	2044
1912	40	26	19	22	135	171	210	338	288	429	377	270	2326
1913	40	29	5	32	207	210	385	417	413	360	544	326	2969
1914	76	17	13	8	373	385	102	134	354	344	354	264	2423
1915	70	93	32	298	244	299	285	193	214	354	437	144	2663
1916	9	102	51	119	334	192	258	401	280	373	249	99	2465
1917	5	5	4	55	256	282	382	271	371	336	470	132	2568
1918	77	8	4	143	307	194	112	178	311	395	197	43	1970
1919	54	10	9	298	214	247	198	201	215	316	292	108	2160
1920	9	8	3	14	195	249	376	276	241	507	248	48	2175
1921	61	71	9	69	233	234	210	350	340	490	248	216	2531
1922	156	10	5	13	337	206	98	339	227	398	90	146	2025
1923	95	3	7	12	210	246	109	187	194	610	416	66	2155
1924	3	73	11	130	260	309	342	252	233	291	386	108	2398
1925	28	15	21	57	245	164	324	299	307	465	308	77	2309
1926	1	19	2	14	155	361	261	244	198	350	431	310	2345
1927	40	37	46	188	382	304	260	80	305	234	353	132	2362
1928	22	13	30	64	311	289	182	478	206	320	383	198	2495
1929	12	0	63	56	414	195	274	335	279	274	296	73	2271
1930	35	25	1	140	193	126	191	245	154	182	222	173	1686
1931	8	13	77	64	237	259	427	170	311	349	627	74	2617
1932	23	11	24	199	206	249	340	309	188	322	829	178	2878
1933	55	2	42	41	183	200	216	140	161	261	538	215	2055
1934	89	7	12	78	307	257	147	161	361	371	410	361	2560
1935	44	71	2	61	207	178	407	243	210	205	950	420	2999
1936	14	2	46	32	505	145	337	207	271	476	219	34	2289
1937	74	6	0	49	346	248	272	190	262	295	334	613	2689
1938	17	23	12	72	466	571	229	332	265	354	497	428	3265
1939	0	2	5	32	130	151	129	156	246	279	663	202	1994
1940	106	42	27	10	269	214	225	179	186	289	187	39	1775
1941	44	80	14	40	168	196	277	303	265	357	295	86	2124
1942	36	21	45	51	290	196	185	262	167	538	99	443	2332
1943	39	51	52	126	229	142	159	280	208	143	322	331	2082
1944	74	4	5	69	247	235	207	247	240	394	234	322	2278

CANO (CNO)
MONTHLY RAINFALL IN MM

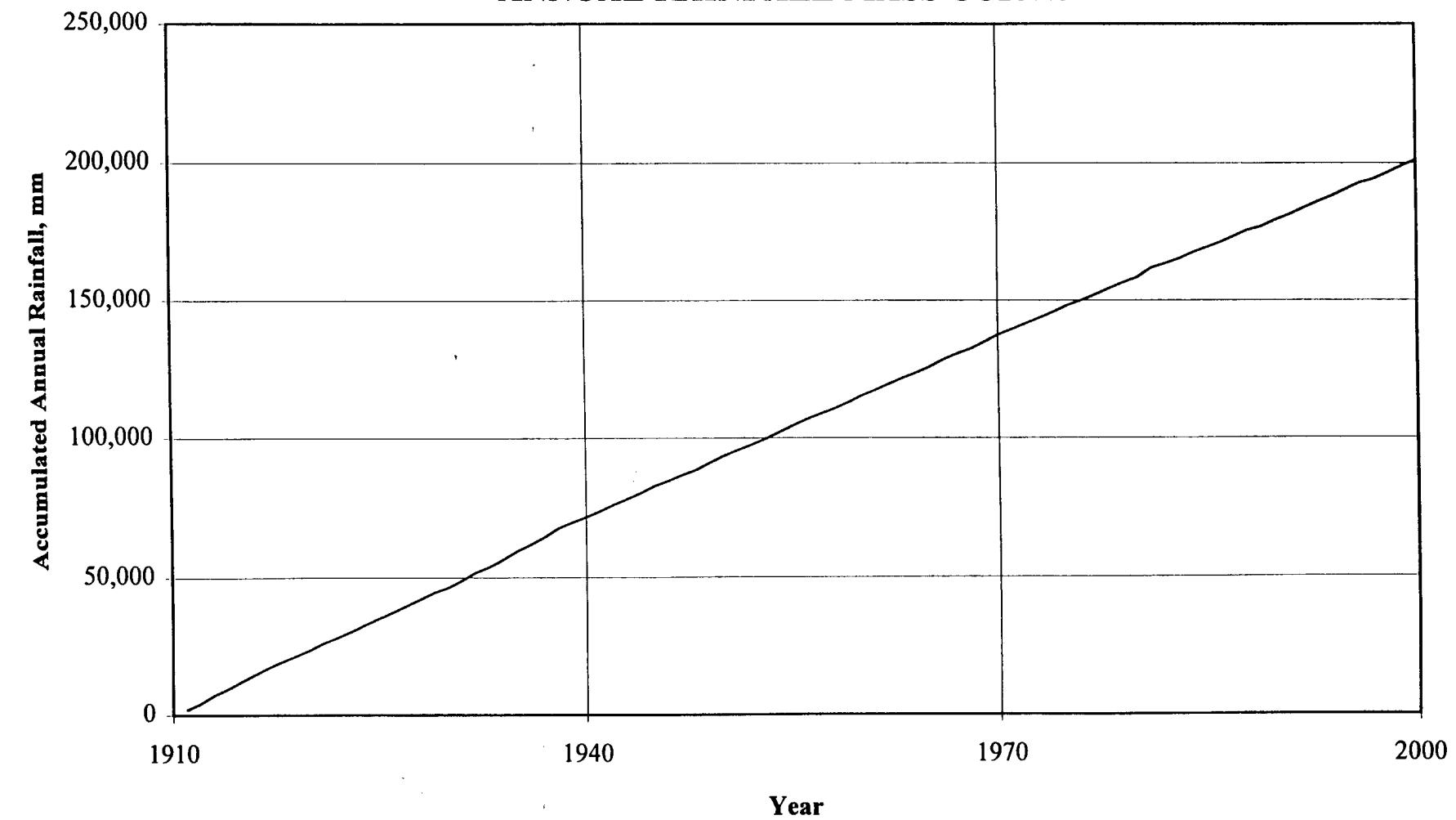
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	38	9	5	50	270	216	227	313	218	252	400	434	2431
1946	28	4	14	57	239	141	223	145	299	299	277	134	1858
1947	9	31	13	37	135	324	187	178	262	474	302	196	2146
1948	28	1	7	21	173	156	278	251	239	291	380	36	1862
1949	6	2	9	9	289	416	253	342	216	318	471	148	2479
1950	4	38	12	109	176	387	193	290	137	269	443	282	2338
1951	42	74	5	133	225	115	130	365	192	287	261	215	2044
1952	48	12	2	109	258	221	171	106	101	357	307	306	1998
1953	99	17	20	104	279	213	195	191	169	406	308	101	2101
1954	31	28	24	136	295	233	346	284	190	287	410	124	2389
1955	237	10	39	3	307	283	221	313	180	165	353	256	2369
1956	158	53	75	41	261	142	367	207	300	392	242	89	2327
1957	8	11	4	1	316	189	216	227	204	460	214	123	1972
1958	67	48	46	33	260	116	174	285	179	357	144	104	1812
1959	4	1	1	42	167	185	253	255	312	258	114	606	2200
1960	61	0	79	117	241	270	254	163	267	411	291	191	2345
1961	126	18	1	114	118	311	223	197	243	378	208	99	2036
1962	64	0	7	85	251	157	251	407	268	262	303	197	2253
1963	149	44	0	111	113	207	275	434	254	239	258	35	2117
1964	0	10	12	37	176	226	346	240	223	297	188	230	1984
1965	76	4	0	56	373	220	191	233	248	347	351	68	2169
1966	80	21	30	61	291	123	234	279	323	529	553	138	2662
1967	57	1	50	140	188	262	288	234	216	256	315	99	2107
1968	0	72	22	9	204	281	119	346	269	282	159	65	1829
1969	52	0	33	74	252	186	170	387	387	332	444	239	2555
1970	239	46	48	212	239	226	386	244	187	297	301	198	2621
1971	80	33	51	0	439	130	147	241	389	267	272	18	2066
1972	124	30	25	206	193	267	109	188	239	277	279	135	2073
1973	28	13	0	13	229	175	300	231	295	292	414	157	2146
1974	10	3	13	30	107	251	330	312	183	513	376	89	2217
1975	0	15	64	25	259	196	208	315	140	343	462	378	2405
1976	30	36	5	89	163	244	51	218	389	411	142	51	1829
1977	15	13	13	5	201	206	145	455	371	338	358	48	2167
1978	15	13	46	191	274	284	282	356	208	348	236	48	2301

CANO (CNO)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	3	20	3	135	119	257	305	371	259	201	330	107	2108
1980	104	46	0	15	244	170	168	211	142	231	356	175	1862
1981	338	20	51	320	516	315	325	338	185	368	348	366	3490
1982	81	0	10	127	160	155	145	272	178	269	112	18	1527
1983	10	3	3	51	165	279	140	160	226	203	328	185	1753
1984	91	36	13	53	206	328	163	328	300	376	434	20	2347
1985	20	20	3	10	104	241	163	224	348	211	300	188	1831
1986	15	10	20	79	86	234	127	257	274	495	150	30	1778
1987	18	30	3	142	351	147	284	236	345	381	203	122	2263
1988	0	15	3	10	188	234	188	257	455	323	312	180	2164
1989	38	38	23	18	203	178	135	152	122	137	130	155	1328
1990	38	3	33	53	302	135	231	198	279	480	320	226	2299
1991	8	18	89	13	277	231	203	277	307	279	267	74	2042
1992	15	5	8	130	284	345	229	312	318	343	269	137	2395
1993	74	10	23	79	224	206	295	211	246	325	381	193	2266
1994	76	3	53	25	284	236	114	279	241	229	427	51	2019
1995	74	10	5	69	396	312	345	147	157	302	290	229	2337
1996	257	117	114	25	290	157	284	218	272	284	325	64	2408
1997	13	20	3	10	198	272	130	61	287	246	104	170	1514
1998	3	5	10	109	239	297	193	274	315	310	262	251	2268
1999	86	30	114	86	74	340	173	254	297	231	305	439	2431
2000	94	30	0	86	244	284	145	198	203	361	224	343	2212
Mean	55	24	23	77	248	233	227	256	252	334	328	179	2235
Max	338	117	114	320	516	571	427	478	455	610	950	613	3490
Min	0	0	0	0	74	115	51	61	101	137	90	18	1328
Std	60	25	26	68	89	76	85	83	71	93	143	129	347
Skew	2.3	1.7	1.6	1.5	0.7	1.2	0.3	0.3	0.4	0.5	1.5	1.2	0.6
CV	1.1	1.1	1.1	0.9	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.7	0.2

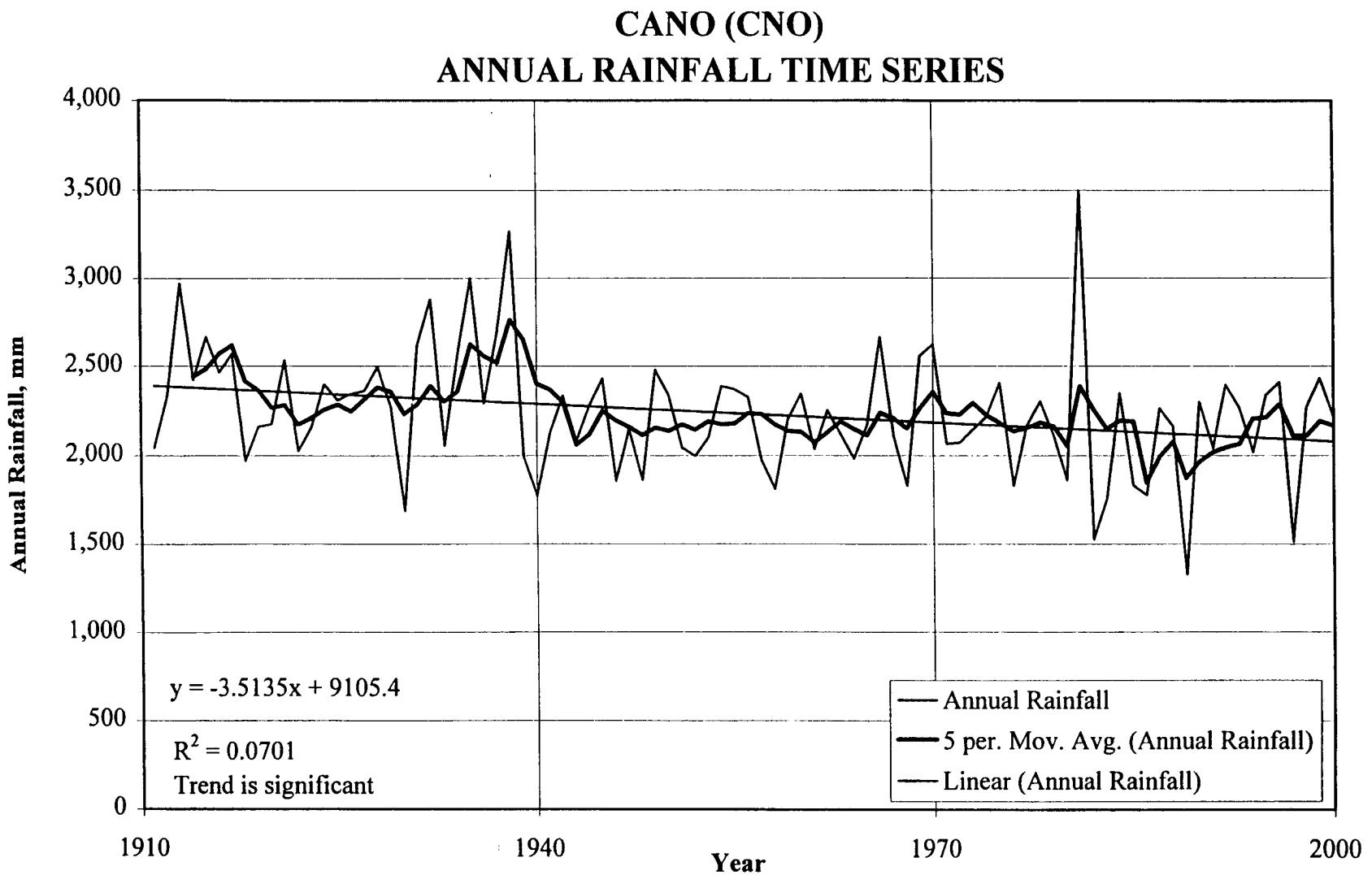
Note : Estimated rainfall in bold values.

CANO (CNO)
ANNUAL RAINFALL MASS CURVE



CHICO (CHI)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	22	103	20	22	320	246	98	205	358	571	289	105	2360
1912	23	7	16	80	289	291	221	276	246	385	322	38	2192
1913	53	0	0	55	306	286	141	243	327	236	235	227	2108
1914	34	0	20	67	221	226	117	274	439	397	330	118	2243
1915	11	107	20	240	190	383	599	475	337	504	470	239	3576
1916	2	47	23	208	206	315	422	254	370	611	342	76	2876
1917	0	0	2	5	275	308	581	470	278	351	680	267	3218
1918	89	20	20	179	339	399	387	256	274	245	224	59	2490
1919	94	24	20	243	119	171	323	410	403	396	286	122	2612
1920	49	12	23	104	236	293	419	366	279	488	240	16	2527
1921	17	23	2	113	207	371	481	425	438	627	287	281	3272
1922	136	28	0	38	385	391	167	247	278	338	334	210	2554
1923	39	22	17	22	205	389	363	157	316	656	266	0	2452
1924	18	51	3	98	313	283	612	359	342	271	240	64	2653
1925	52	0	0	28	166	388	354	304	244	495	251	163	2447
1926	0	6	0	30	174	332	317	393	339	441	239	223	2494
1927	48	66	32	109	415	489	787	260	307	318	360	327	3519
1928	51	22	61	40	169	272	447	471	297	521	325	152	2827
1929	4	11	14	6	230	197	259	313	304	521	330	156	2344
1930	0	0	9	144	341	121	333	162	322	287	190	52	1961
1931	73	7	40	47	532	413	199	271	420	341	853	114	3311
1932	84	0	21	154	251	265	221	418	327	513	600	112	2966
1933	27	1	23	7	269	139	305	337	309	264	478	223	2383
1934	24	0	7	49	440	241	293	274	247	390	385	147	2496
1935	54	25	9	23	365	384	560	485	266	302	1082	276	3831
1936	16	4	4	67	419	286	322	300	429	322	262	61	2492
1937	127	9	7	55	180	188	392	318	422	474	424	496	3092
1938	8	22	9	112	617	305	373	593	334	476	312	356	3517
1939	5	0	11	5	149	318	97	260	407	393	567	264	2476
1940	39	30	8	21	139	186	118	290	322	370	364	11	1896
1941	20	100	30	62	268	372	341	324	370	430	368	113	2799
1942	18	6	5	60	310	330	287	323	390	442	310	333	2813
1943	43	31	30	83	305	277	224	263	440	469	257	308	2729
1944	38	5	8	189	291	308	372	408	254	503	190	232	2799



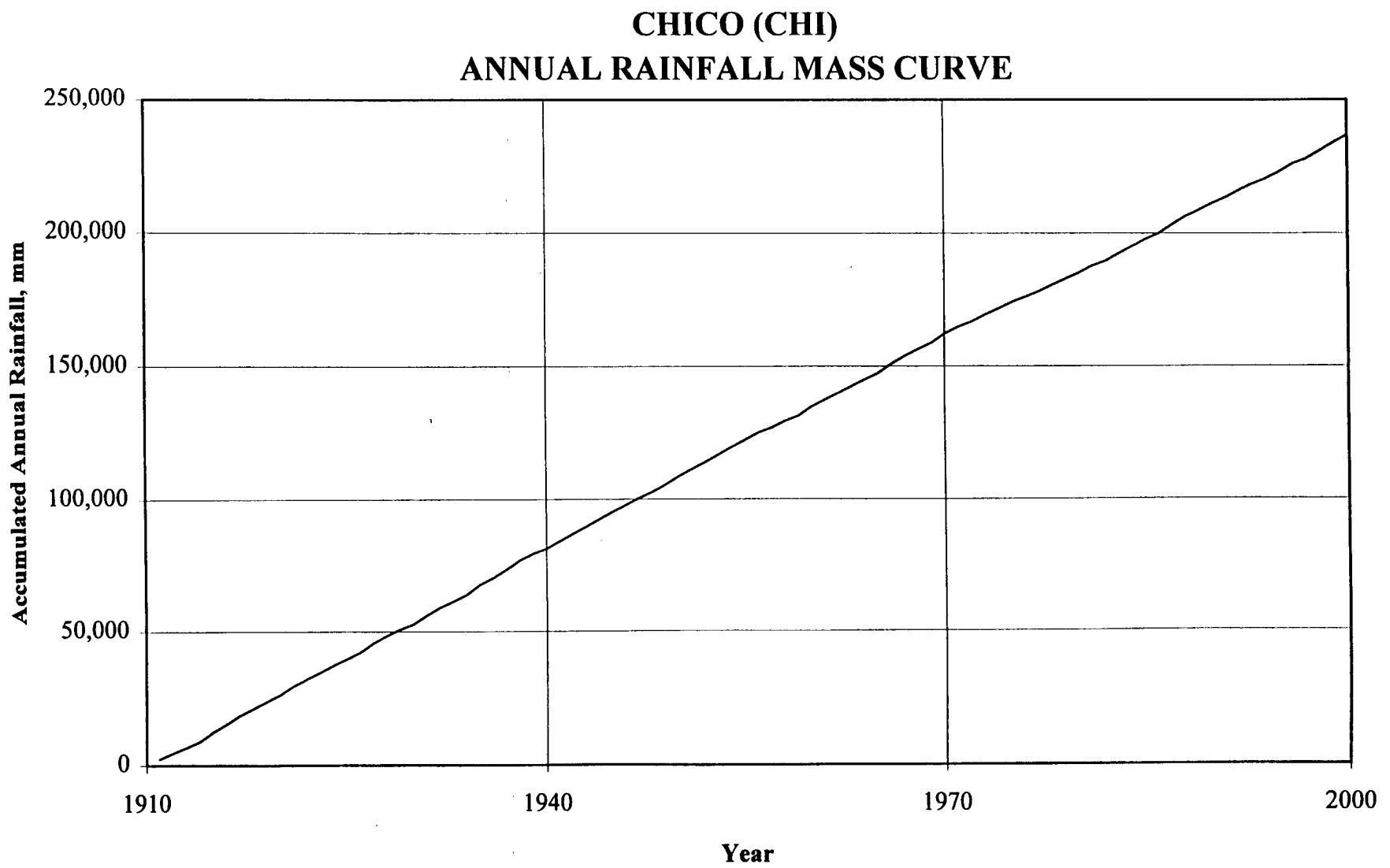
CHICO (CHI)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	5	3	3	193	152	178	523	371	239	297	272	76	2311
1980	36	36	23	23	226	251	175	396	234	315	366	97	2177
1981	53	10	36	348	269	348	312	389	193	229	241	244	2672
1982	81	0	0	76	234	201	287	157	229	422	127	53	1867
1983	10	0	23	112	157	208	208	246	417	587	495	315	2779
1984	10	5	8	0	320	480	284	554	218	490	320	33	2723
1985	30	10	23	48	173	544	404	254	409	300	185	274	2654
1986	15	3	20	122	140	279	140	193	259	681	262	36	2149
1987	13	15	3	249	417	287	500	381	455	467	351	122	3259
1988	3	25	13	46	343	224	455	478	470	518	361	97	3030
1989	20	53	5	25	160	363	325	386	201	320	358	132	2350
1990	61	5	20	20	211	150	259	411	368	627	351	155	2639
1991	10	10	48	114	320	269	224	257	262	312	264	119	2210
1992	10	5	8	94	419	546	351	401	262	300	150	102	2647
1993	41	3	58	147	272	516	178	165	391	373	168	71	2383
1994	18	5	25	36	262	310	175	244	295	406	295	18	2088
1995	15	0	41	84	305	356	246	424	236	389	302	150	2548
1996	254	28	30	127	302	536	183	340	406	338	386	145	3076
1997	10	8	3	64	135	302	188	119	318	284	376	5	1811
1998	5	3	5	64	414	330	381	287	399	401	391	287	2967
1999	38	71	15	53	361	381	356	307	290	353	442	472	3139
2000	43	3	5	66	226	404	165	460	333	478	157	500	2840
Mean	40	19	15	83	276	317	321	331	323	398	340	167	2631
Max	271	229	74	348	617	546	787	593	470	681	1082	500	3831
Min	0	0	0	0	102	121	74	119	185	192	127	0	1811
Std	51	34	15	73	103	96	134	103	72	114	139	125	433
Skew	2.6	3.8	1.5	1.3	0.7	0.4	0.5	0.3	0.2	0.4	2.5	1.0	0.4
CV	1.3	1.7	1.0	0.9	0.4	0.3	0.4	0.3	0.2	0.3	0.4	0.7	0.2

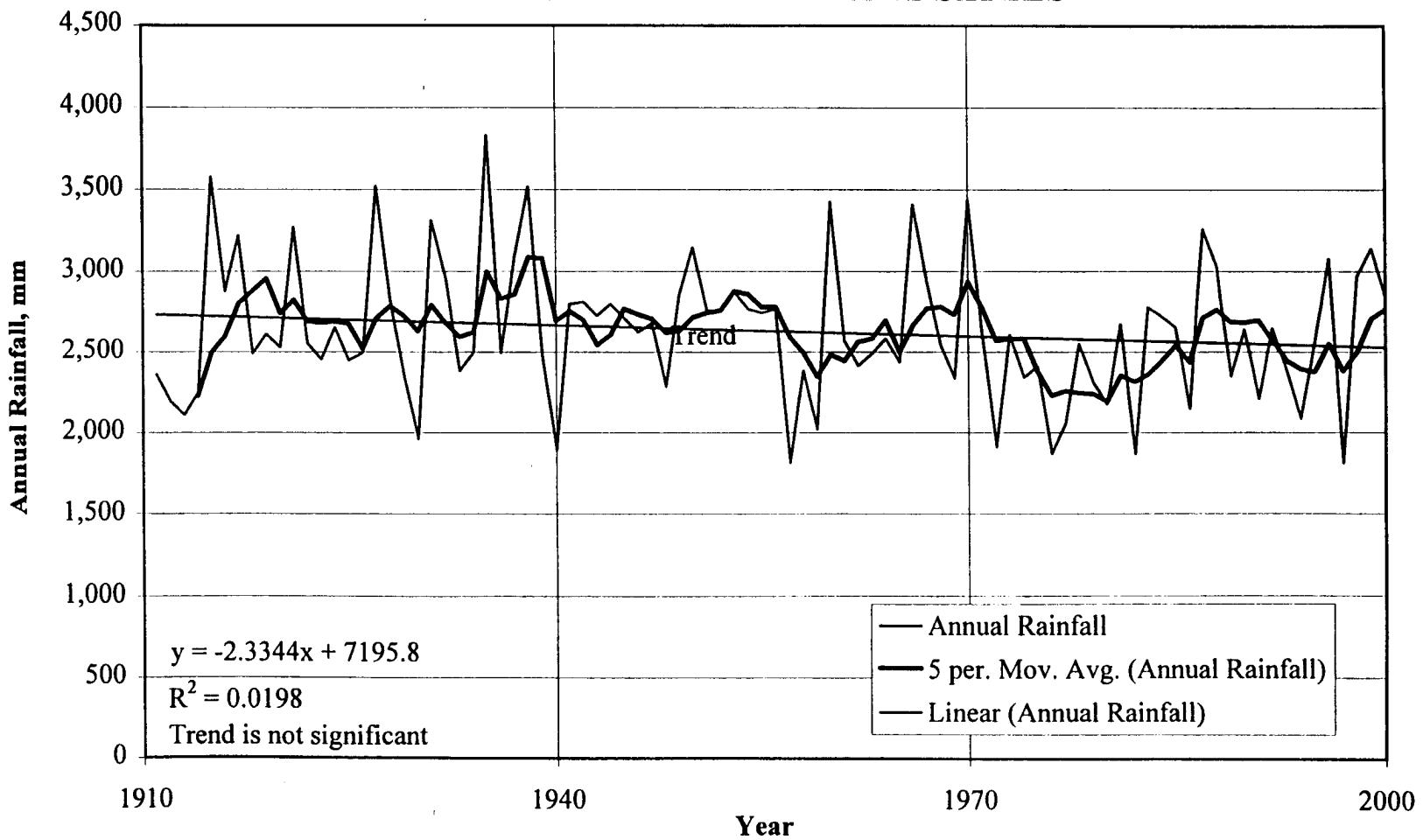
Note : Estimated rainfall in bold values.

CHICO (CHI)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	15	5	6	70	230	330	450	553	185	278	362	230	2713
1946	17	7	6	8	368	363	389	222	379	308	314	242	2623
1947	9	19	9	34	191	354	319	335	320	479	435	179	2682
1948	17	5	4	29	176	282	560	149	246	371	347	101	2286
1949	10	6	4	44	295	495	445	306	334	432	367	116	2854
1950	8	23	13	116	421	408	406	425	290	215	443	375	3145
1951	16	140	6	144	376	268	290	360	449	357	280	75	2760
1952	34	8	1	153	305	243	287	261	450	493	257	261	2754
1953	142	9	20	149	409	264	410	236	278	410	381	166	2876
1954	5	17	27	27	500	368	426	312	389	248	342	107	2768
1955	175	7	35	1	140	359	352	576	276	269	425	131	2746
1956	171	26	24	43	333	290	445	250	254	409	424	97	2766
1957	3	10	2	2	102	201	229	178	217	463	364	47	1815
1958	67	9	24	38	348	406	354	269	284	234	282	67	2383
1959	8	1	2	11	110	337	132	278	291	294	178	379	2022
1960	107	3	21	66	503	282	389	334	303	602	331	486	3426
1961	9	1	4	98	210	362	258	402	417	335	267	207	2569
1962	13	0	11	25	357	262	287	407	241	445	246	122	2414
1963	89	21	0	182	245	383	401	474	235	219	233	8	2490
1964	0	0	0	130	183	328	418	300	274	511	323	117	2583
1965	53	16	5	0	226	174	300	250	333	380	486	211	2435
1966	0	0	22	152	272	228	442	321	421	516	546	490	3410
1967	16	1	3	166	256	477	388	294	368	460	369	145	2943
1968	3	26	3	27	246	351	237	380	300	626	291	51	2542
1969	30	0	36	42	170	232	184	512	407	192	317	217	2338
1970	271	30	35	300	430	169	361	432	409	306	309	387	3439
1971	50	7	74	23	307	318	399	429	353	333	307	13	2612
1972	69	15	3	193	213	302	74	152	277	282	251	81	1913
1973	8	5	0	8	269	300	279	340	363	427	475	132	2606
1974	10	229	3	30	122	518	173	262	356	366	244	30	2342
1975	0	3	3	23	259	246	353	307	284	427	333	170	2408
1976	15	5	10	79	272	295	102	345	251	239	224	36	1872
1977	23	3	3	13	267	279	112	363	292	414	226	64	2057
1978	18	5	23	173	269	467	343	373	241	282	284	69	2548



CHICO (CHI)
ANNUAL RAINFALL TIME SERIES



CIENTO (CNT)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	42	74	3	19	796	310	232	307	178	494	452	0	2907
1912	68	63	0	24	299	261	200	209	241	898	482	236	2982
1913	192	97	0	70	560	293	284	367	328	321	485	247	3245
1914	14	32	32	44	190	339	195	451	561	740	554	234	3387
1915	116	174	69	488	274	377	570	183	329	421	586	357	3944
1916	31	79	56	96	414	274	207	196	185	379	430	278	2626
1917	64	53	17	169	311	436	311	305	271	311	454	227	2928
1918	170	6	41	187	380	270	208	360	317	667	263	134	3002
1919	96	36	3	274	247	263	217	236	426	421	304	207	2731
1920	69	15	35	39	256	269	351	339	217	380	311	32	2314
1921	0	68	57	169	344	306	343	327	449	405	559	264	3291
1922	237	94	0	54	346	252	147	234	295	317	232	171	2378
1923	49	59	28	0	217	257	306	254	269	1197	329	209	3175
1924	0	52	54	196	510	343	374	231	297	387	641	305	3391
1925	121	47	35	233	194	323	420	164	314	566	526	244	3188
1926	11	88	21	18	276	467	312	474	267	383	904	256	3479
1927	148	67	41	219	744	356	454	443	369	322	430	275	3867
1928	95	72	95	96	301	321	244	449	278	624	543	252	3370
1929	0	25	38	78	260	395	299	641	218	325	386	100	2767
1930	135	61	6	203	377	231	225	229	272	143	473	401	2757
1931	33	16	215	13	440	373	305	299	297	497	776	139	3401
1932	32	78	76	42	262	271	281	277	185	599	1107	179	3389
1933	124	31	41	50	317	343	321	246	315	382	1018	497	3685
1934	0	0	34	154	373	286	196	311	402	596	496	520	3367
1935	57	148	0	113	429	303	805	281	311	314	1459	508	4727
1936	132	0	68	137	316	141	233	413	304	439	224	151	2558
1937	4	17	40	184	510	335	422	395	444	376	606	807	4140
1938	14	19	14	114	390	460	304	543	238	371	173	529	3168
1939	74	0	39	133	128	270	101	246	500	469	600	363	2924
1940	25	38	0	35	256	329	276	344	324	462	404	157	2651
1941	119	127	86	105	400	300	411	502	270	580	659	102	3662
1942	31	50	103	215	228	292	213	222	349	767	350	704	3524
1943	90	36	60	39	434	430	288	335	338	260	412	490	3213
1944	94	37	18	148	419	98	138	475	154	642	342	515	3078

CIENTO (CNT)
MONTHLY RAINFALL IN MM

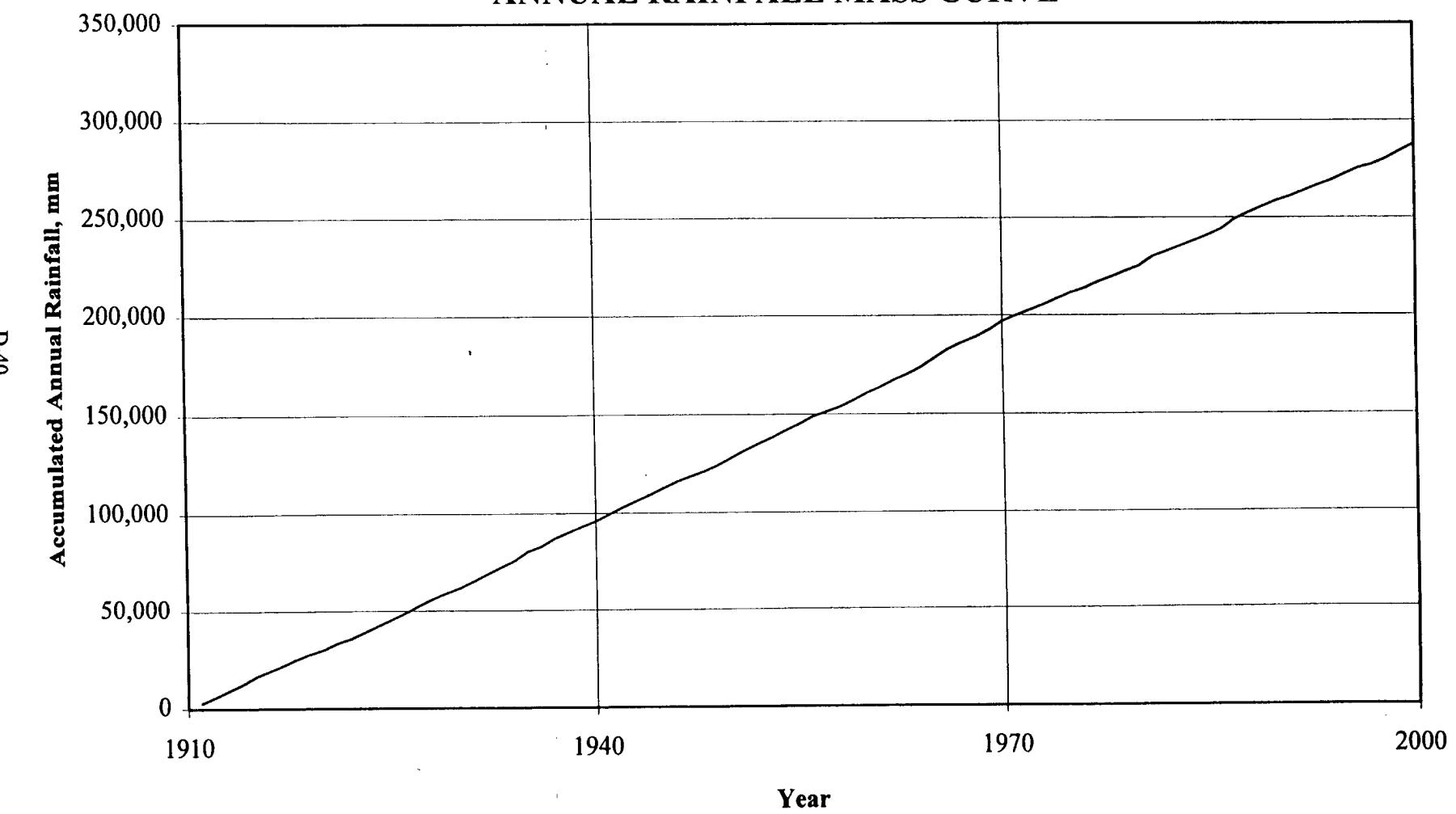
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	70	3	3	73	477	183	251	341	461	355	553	839	3608
1946	104	0	62	64	420	241	367	264	348	319	455	684	3328
1947	0	70	78	120	178	427	258	257	305	318	253	256	2518
1948	74	0	53	30	391	224	370	404	294	240	330	34	2444
1949	6	0	16	27	266	283	270	292	304	416	828	355	3063
1950	3	59	49	130	158	384	455	418	301	299	727	819	3802
1951	55	187	25	117	494	153	393	392	390	611	452	447	3716
1952	38	7	0	114	540	418	409	392	397	379	213	510	3417
1953	110	74	31	77	248	231	410	359	225	690	450	150	3056
1954	9	30	16	103	341	375	556	421	472	334	577	282	3516
1955	235	70	20	4	320	342	293	418	274	521	595	210	3301
1956	201	46	190	102	698	199	375	343	354	505	460	127	3601
1957	7	19	0	14	211	227	169	232	375	597	530	120	2501
1958	163	85	57	123	180	264	312	208	300	288	268	152	2400
1959	7	0	7	80	252	255	210	307	475	475	442	869	3379
1960	93	9	184	349	380	292	330	300	183	450	408	736	3713
1961	34	9	4	117	251	429	311	403	349	505	485	105	3003
1962	63	12	24	144	703	235	268	235	285	375	629	652	3625
1963	324	24	21	79	297	321	347	444	306	196	497	107	2962
1964	30	12	68	165	390	488	307	316	242	597	635	432	3684
1965	210	52	17	79	340	272	325	389	470	807	1212	311	4483
1966	100	15	43	170	492	294	468	336	426	308	929	982	4563
1967	7	12	13	118	341	483	341	313	268	475	747	173	3291
1968	2	101	70	29	269	246	222	419	310	527	554	29	2776
1969	62	21	48	101	453	122	518	441	515	313	400	556	3549
1970	451	105	45	348	346	258	401	290	294	639	754	625	4554
1971	214	33	59	1	426	378	457	353	102	429	328	28	2808
1972	302	61	28	180	244	264	175	211	264	668	310	175	2883
1973	48	20	8	13	213	292	401	307	419	340	511	117	2690
1974	8	20	9	0	297	404	300	165	277	881	551	224	3135
1975	20	30	122	13	249	297	208	467	239	605	328	394	2972
1976	23	15	3	234	272	221	117	203	343	483	353	13	2278
1977	41	15	15	66	399	188	208	536	323	617	612	152	3172
1978	56	64	41	378	203	257	376	389	163	427	333	97	2781

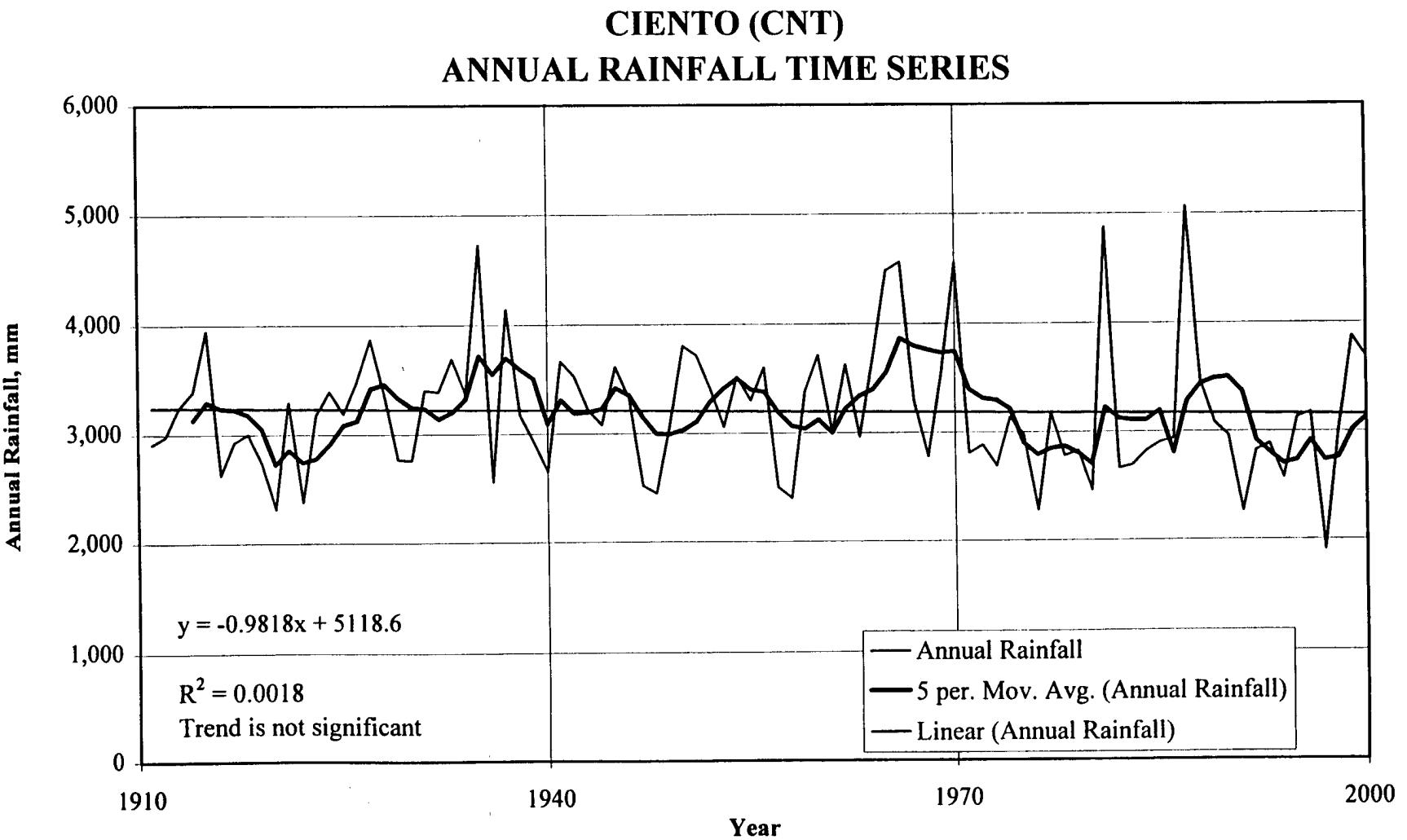
CIENTO (CNT)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	5	33	8	295	325	264	287	272	251	386	505	196	2827
1980	188	97	5	25	292	295	193	422	135	287	325	198	2461
1981	467	66	81	495	549	429	277	389	185	439	665	831	4874
1982	206	3	0	127	328	254	236	165	485	643	175	43	2664
1983	28	0	3	20	328	376	262	185	363	343	401	389	2697
1984	112	51	8	48	251	310	191	358	221	554	691	30	2824
1985	43	51	25	23	363	297	257	320	241	541	267	475	2903
1986	71	10	53	99	277	437	259	287	384	726	180	155	2939
1987	25	81	5	373	787	574	264	470	394	907	790	389	5060
1988	3	99	38	38	701	249	429	328	414	630	297	239	3465
1989	20	251	33	15	368	203	348	267	145	475	488	467	3081
1990	20	5	56	66	417	300	300	318	480	584	290	127	2962
1991	15	43	0	53	267	292	244	221	279	203	511	135	2263
1992	41	3	13	188	607	264	236	371	523	244	196	140	2824
1993	122	30	142	81	193	300	272	333	417	478	386	137	2891
1994	107	15	91	36	211	478	257	307	300	333	406	33	2573
1995	188	30	36	274	351	257	353	333	399	300	384	224	3127
1996	411	38	76	107	246	531	201	292	249	157	693	173	3175
1997	23	8	5	15	447	246	71	226	287	201	348	30	1908
1998	15	5	13	208	371	394	305	361	290	300	325	424	3010
1999	48	66	160	259	244	409	292	384	312	292	676	734	3876
2000	160	8	8	74	378	561	290	307	305	823	206	569	3688
Mean	89	46	41	120	358	314	302	331	318	470	499	311	3199
Max	467	251	215	495	796	574	805	641	561	1197	1459	982	5060
Min	0	0	0	0	128	98	71	164	102	143	173	0	1908
Std	98	45	44	106	142	93	110	95	96	188	230	235	597
Skew	1.9	1.9	1.9	1.5	1.2	0.5	1.3	0.5	0.3	1.0	1.5	1.0	0.9
CV	1.1	1.0	1.1	0.9	0.4	0.3	0.4	0.3	0.3	0.4	0.5	0.8	0.2

Note : Estimated rainfall in bold values.

CIENTO (CNT)
ANNUAL RAINFALL MASS CURVE





CHORRO (CHR) OR EL CHORRO
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	75	45	53	108	431	245	144	73	171	441	205	0	1991
1912	14	49	49	136	245	133	138	277	378	403	380	276	2478
1913	103	22	20	122	424	222	237	417	449	139	245	146	2546
1914	26	7	55	40	422	357	104	214	371	304	329	244	2473
1915	42	178	82	341	177	304	215	241	323	359	168	139	2566
1916	96	76	70	51	292	165	336	245	273	413	190	43	2248
1917	4	8	0	68	322	246	248	412	379	267	590	134	2678
1918	124	19	40	142	473	132	80	249	329	377	128	28	2122
1919	59	26	30	169	248	303	173	251	257	354	296	223	2388
1920	61	13	34	55	184	227	261	195	214	455	195	14	1907
1921	36	67	19	47	193	246	305	430	448	284	173	297	2545
1922	156	38	5	0	309	279	88	249	248	356	244	199	2172
1923	62	23	0	0	259	390	220	265	296	593	334	33	2474
1924	0	35	63	202	330	367	346	274	388	318	255	116	2693
1925	70	2	7	34	108	225	241	137	523	354	344	38	2084
1926	92	29	25	8	253	234	200	205	357	405	572	201	2580
1927	128	62	34	143	291	508	295	191	341	182	360	205	2738
1928	74	43	113	9	228	317	153	322	433	401	387	17	2497
1929	0	0	71	58	356	120	126	260	291	327	254	126	1990
1930	97	22	17	108	194	115	181	248	181	194	132	23	1510
1931	164	9	72	99	219	173	282	141	297	332	328	56	2171
1932	128	43	4	180	262	276	169	211	141	414	412	207	2447
1933	72	1	31	95	246	142	173	194	217	179	522	191	2063
1934	28	0	22	83	323	206	168	233	259	376	299	287	2284
1935	169	88	50	101	314	288	404	263	445	432	676	497	3726
1936	55	37	11	67	420	96	225	198	353	387	233	34	2115
1937	65	23	29	153	267	130	155	222	512	337	381	573	2847
1938	38	9	19	8	388	509	171	434	284	344	300	320	2824
1939	28	0	31	47	208	74	29	156	290	189	401	152	1605
1940	30	38	59	50	250	170	179	304	217	341	264	47	1951
1941	95	102	0	54	201	193	129	448	405	455	351	93	2526
1942	55	34	93	143	312	216	158	333	316	355	155	458	2629
1943	31	69	115	113	379	357	320	327	333	130	380	388	2941
1944	50	4	47	166	408	321	240	280	292	282	312	446	2848

CHORRO (CHR) OR EL CHORRO
MONTHLY RAINFALL IN MM

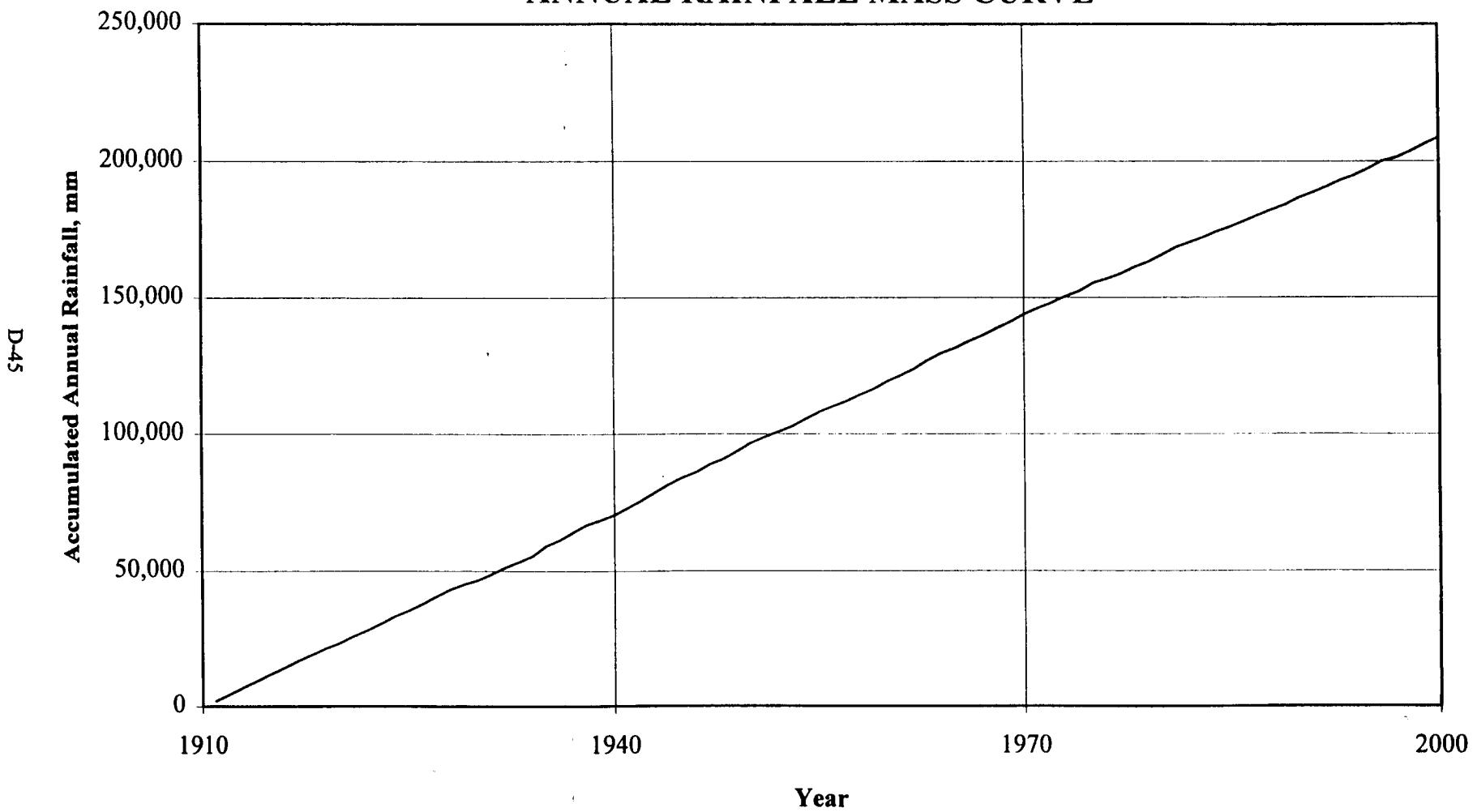
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	53	29	18	103	305	210	289	366	178	214	508	243	2517
1946	30	21	21	0	154	99	334	218	399	241	178	222	1916
1947	54	46	46	84	168	272	215	432	761	540	152	135	2905
1948	44	4	7	6	226	130	247	267	256	195	519	74	1975
1949	27	8	3	54	275	298	161	290	490	416	496	247	2765
1950	19	44	6	73	377	421	297	242	324	255	541	336	2936
1951	38	114	10	128	202	135	280	198	260	239	397	164	2166
1952	75	39	4	78	198	153	94	205	147	364	213	301	1871
1953	186	4	11	44	271	98	154	126	182	286	417	152	1929
1954	29	21	15	117	414	312	374	382	271	265	383	164	2747
1955	223	12	60	25	293	241	251	385	294	229	422	192	2627
1956	128	25	61	108	297	213	296	113	230	364	199	74	2110
1957	27	5	3	1	394	151	196	234	122	349	210	168	1860
1958	149	125	99	70	295	287	159	274	295	328	126	92	2300
1959	13	0	10	60	181	250	159	185	262	396	199	394	2110
1960	58	9	128	248	225	374	202	238	285	227	274	522	2790
1961	25	12	25	28	200	286	132	234	515	376	340	133	2306
1962	21	23	21	78	256	228	295	310	393	247	271	206	2349
1963	101	29	58	229	275	391	315	535	461	288	275	189	3147
1964	26	0	2	159	300	279	250	392	327	305	407	77	2526
1965	110	5	0	48	125	105	61	273	173	466	434	125	1924
1966	47	1	22	62	271	271	201	328	294	135	560	309	2501
1967	37	10	54	112	214	259	185	316	270	385	269	49	2160
1968	5	129	66	13	389	468	80	288	386	399	268	39	2530
1969	63	36	4	174	229	245	132	307	173	421	383	176	2343
1970	155	53	108	115	325	219	163	306	330	269	398	430	2871
1971	108	55	68	5	449	323	153	323	196	264	310	41	2295
1972	160	51	28	257	211	305	102	173	295	267	198	51	2096
1973	23	3	0	69	229	284	124	132	269	480	495	206	2314
1974	8	25	18	30	122	165	246	183	183	457	394	43	1875
1975	8	30	25	18	315	320	201	318	312	681	472	373	3073
1976	33	23	0	119	213	119	89	102	315	358	124	61	1557
1977	18	10	3	23	251	109	165	272	211	409	305	91	1867
1978	84	13	79	302	356	356	246	272	198	373	173	25	2476

CHORRO (CHR) OR EL CHORRO
MONTHLY RAINFALL IN MM

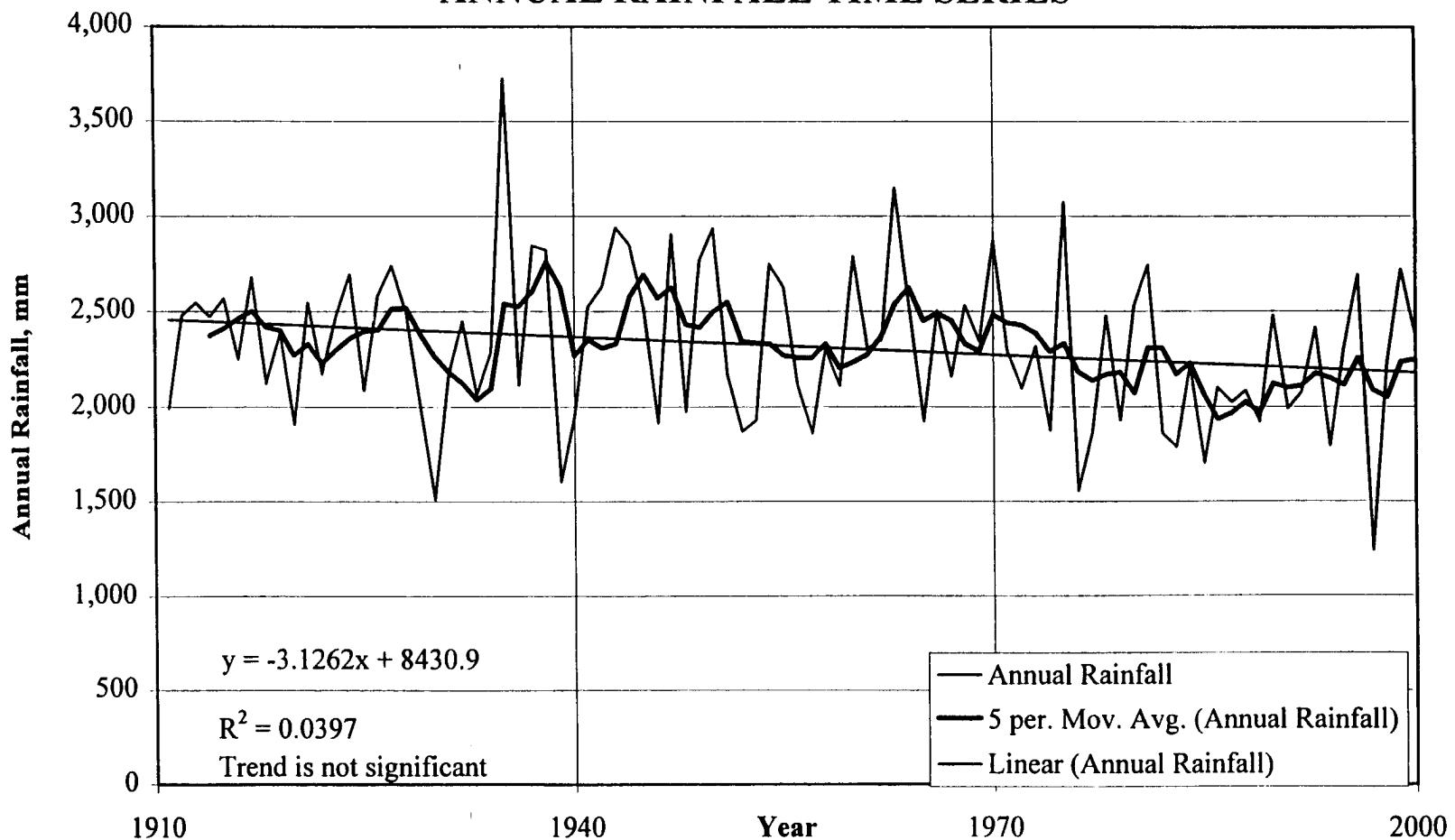
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	13	0	3	132	203	305	335	206	259	216	155	102	1928
1980	86	48	3	43	376	244	389	226	198	310	429	178	2530
1981	170	30	38	307	373	262	262	325	145	211	373	246	2743
1982	147	13	20	69	267	191	132	264	218	384	140	15	1859
1983	28	10	18	28	218	137	165	259	277	246	249	152	1788
1984	91	97	20	25	274	30	122	417	381	318	399	43	2217
1985	74	23	18	38	163	325	191	163	221	107	180	203	1704
1986	58	10	10	211	269	180	117	241	191	366	386	61	2101
1987	33	20	3	91	330	155	226	234	538	231	64	99	2024
1988	5	20	5	53	259	290	272	234	279	213	295	160	2085
1989	33	36	13	28	173	206	218	257	239	236	318	165	1920
1990	15	3	33	58	483	175	221	254	404	414	335	84	2479
1991	33	8	208	5	381	140	130	132	333	216	287	117	1989
1992	0	10	3	163	274	249	178	231	429	183	236	122	2078
1993	38	18	79	183	231	284	124	130	399	358	427	142	2413
1994	56	8	71	38	196	180	89	157	183	404	409	3	1793
1995	102	3	10	109	272	234	221	320	239	300	249	249	2306
1996	325	86	117	76	315	312	208	231	356	259	340	66	2692
1997	23	15	0	38	109	89	206	97	251	102	290	20	1240
1998	13	13	38	170	221	193	180	102	239	295	269	490	2223
1999	81	51	97	102	127	345	155	450	356	170	417	371	2720
2000	117	23	10	51	323	318	175	386	175	328	191	272	2367
Mean	67	31	36	92	275	239	201	260	304	320	317	175	2318
Max	325	178	208	341	483	509	404	535	761	681	676	573	3726
Min	0	0	0	0	108	30	29	73	122	102	64	0	1240
Std	57	33	38	74	86	97	78	92	108	105	123	134	410
Skew	1.6	2.0	1.7	1.2	0.3	0.4	0.4	0.5	1.1	0.4	0.4	1.0	0.3
CV	0.8	1.1	1.0	0.8	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.8	0.2

Note : Estimated rainfall in bold values.

**CHORRO (CHR) OR EL CHORRO
ANNUAL RAINFALL MASS CURVE**



**CHORRO (CHR) OR EL CHORRO
ANNUAL RAINFALL TIME SERIES**



CASCADAS (CAS) OR LAS CASCADAS
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	0	10	0	141	402	165	147	217	215	366	233	85	1981
1912	30	25	3	13	253	364	369	427	376	545	327	71	2802
1913	46	22	14	34	386	288	227	410	349	352	293	28	2447
1914	12	6	24	139	338	495	98	264	349	430	316	113	2583
1915	73	53	18	184	283	324	254	196	180	407	313	145	2431
1916	56	48	48	235	291	256	197	420	473	560	356	140	3081
1917	44	21	28	154	283	195	383	375	415	310	529	165	2901
1918	92	5	27	160	212	260	134	250	235	445	227	79	2126
1919	38	17	29	153	200	186	223	288	288	395	99	20	1936
1920	0	0	10	83	213	188	290	223	315	489	311	41	2163
1921	0	84	11	67	212	310	261	388	308	346	310	117	2414
1922	152	43	16	4	342	295	133	319	160	346	265	112	2188
1923	0	0	3	0	266	248	194	238	433	811	251	33	2475
1924	18	44	59	167	382	292	248	417	325	249	286	135	2622
1925	42	0	0	17	240	406	256	346	203	273	195	7	1984
1926	0	9	14	46	228	534	446	506	551	454	344	206	3337
1927	55	29	33	226	223	264	252	298	362	297	305	147	2493
1928	6	16	75	182	386	354	231	278	266	250	375	79	2499
1929	0	0	21	8	223	197	183	297	142	460	317	148	1997
1930	64	21	25	118	317	289	346	401	288	278	274	15	2435
1931	12	23	77	63	197	332	313	252	491	317	497	99	2672
1932	51	28	39	372	330	486	218	295	203	588	415	90	3114
1933	42	14	40	21	270	346	189	289	338	228	311	179	2266
1934	26	12	11	57	309	216	143	251	343	322	384	212	2286
1935	10	32	18	51	236	224	369	281	314	269	655	80	2538
1936	5	22	50	141	372	301	277	148	146	433	212	52	2158
1937	63	26	11	153	259	265	246	284	358	332	326	326	2650
1938	35	27	53	119	615	451	287	400	288	507	389	243	3414
1939	42	15	3	45	170	344	191	199	268	346	392	188	2204
1940	38	18	23	81	247	232	90	224	166	263	238	25	1646
1941	24	25	12	47	240	367	386	347	340	303	203	160	2454
1942	25	3	61	56	359	327	222	256	331	577	288	299	2804
1943	58	19	39	161	367	352	201	258	301	270	345	299	2669
1944	32	3	20	160	312	283	168	413	169	406	298	196	2460

CASCADAS (CAS) OR LAS CASCADAS
MONTHLY RAINFALL IN MM

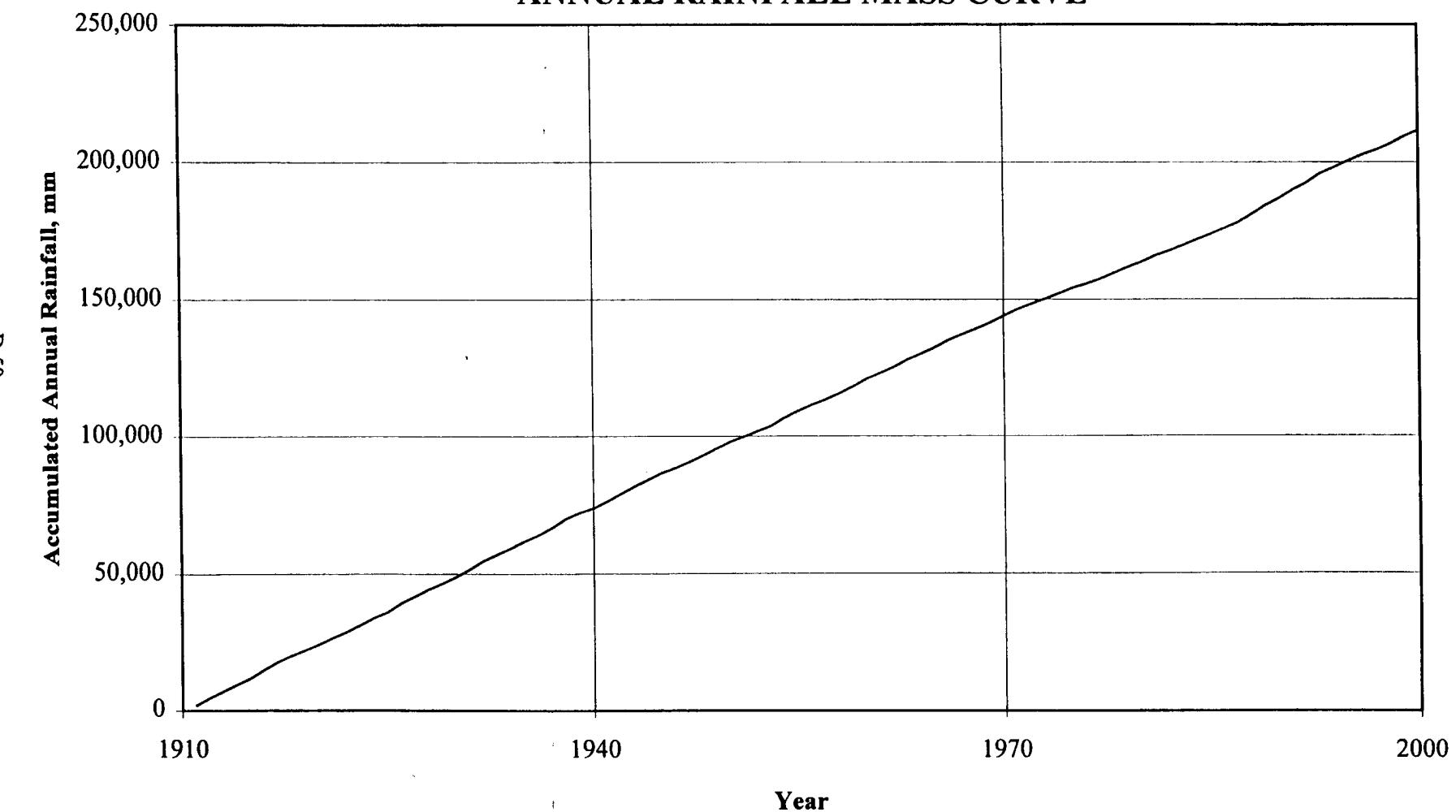
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	6	5	7	172	243	158	277	314	347	309	392	282	2511
1946	15	0	24	21	158	181	279	253	240	255	260	147	1833
1947	0	7	2	46	140	167	205	357	481	412	166	56	2039
1948	68	10	27	29	352	245	388	257	303	250	391	71	2391
1949	54	18	10	63	257	432	281	266	149	431	428	93	2480
1950	28	36	53	24	333	412	355	178	176	269	426	124	2414
1951	24	33	5	69	389	156	220	252	147	196	229	94	1813
1952	7	5	0	33	189	315	182	118	193	465	225	231	1965
1953	52	22	9	46	260	101	178	284	155	339	353	66	1865
1954	9	11	17	90	336	277	430	434	425	346	477	158	3009
1955	96	6	3	37	218	463	174	316	249	323	458	132	2475
1956	57	23	22	37	369	216	350	280	164	339	267	71	2194
1957	0	0	12	40	304	243	244	245	369	345	158	0	1960
1958	0	0	10	60	304	206	248	354	316	369	262	59	2189
1959	22	16	3	29	325	350	198	394	333	455	270	245	2640
1960	14	33	74	120	245	466	316	308	349	425	304	181	2835
1961	0	3	16	66	181	528	267	215	251	242	219	135	2124
1962	5	0	14	113	238	287	179	260	331	377	356	111	2271
1963	32	33	10	88	258	395	339	452	414	281	393	22	2715
1964	0	13	20	139	280	248	266	261	231	284	316	54	2111
1965	30	0	0	41	440	214	220	357	312	289	396	129	2429
1966	82	12	38	176	229	461	292	267	374	178	377	215	2699
1967	0	10	23	128	210	209	287	292	267	389	273	83	2170
1968	1	37	32	46	222	307	208	273	181	342	266	100	2013
1969	22	11	9	57	305	171	199	290	368	253	331	40	2057
1970	89	0	51	3	246	201	262	338	231	427	451	341	2639
1971	172	47	45	25	323	157	257	301	295	432	298	0	2351
1972	86	23	18	142	224	351	79	188	330	295	198	66	1999
1973	3	3	3	25	183	279	198	157	267	191	361	94	1763
1974	5	3	41	8	371	241	188	251	241	323	180	91	1943
1975	5	5	18	10	267	198	282	249	213	345	297	183	2073
1976	5	0	8	69	132	239	76	188	310	201	140	36	1402
1977	8	3	0	10	221	178	221	297	142	368	267	124	1839
1978	5	5	56	185	239	305	274	185	224	351	300	99	2228

CASCADAS (CAS) OR LAS CASCADAS
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	0	3	0	163	251	310	185	196	107	363	358	51	1986
1980	61	13	5	15	244	264	203	279	244	160	234	168	1890
1981	25	3	69	345	216	335	236	185	163	201	386	145	2309
1982	107	3	0	69	320	152	185	198	249	310	183	13	1788
1983	8	8	10	71	279	259	145	163	404	224	274	150	1994
1984	23	51	3	33	196	241	175	318	325	429	284	10	2088
1985	3	5	15	58	371	297	188	170	406	137	140	130	1920
1986	3	10	91	132	97	323	183	257	224	579	213	38	2149
1987	3	8	0	185	170	297	254	330	348	249	221	99	2164
1988	0	3	5	43	391	371	249	452	358	597	366	163	2997
1989	20	28	8	0	325	467	467	460	226	460	572	226	3259
1990	53	0	30	36	427	163	315	310	310	470	274	165	2553
1991	38	5	51	91	483	391	325	462	483	434	371	43	3178
1992	3	3	3	147	218	544	389	290	254	417	269	64	2598
1993	114	3	38	127	307	599	356	295	599	452	371	112	3373
1994	33	13	51	23	295	246	191	267	251	358	424	58	2210
1995	10	3	30	180	277	323	257	206	198	254	434	132	2304
1996	211	23	28	48	310	229	267	234	292	239	272	51	2202
1997	15	0	0	30	330	188	236	282	147	259	221	5	1714
1998	0	0	0	74	201	259	282	320	287	239	335	208	2205
1999	48	99	38	71	330	318	102	264	442	216	297	381	2606
2000	53	3	10	107	300	290	163	239	328	353	213	193	2250
Mean	34	16	23	88	281	296	244	290	292	352	312	121	2349
Max	211	99	91	372	615	599	467	506	599	811	655	381	3414
Min	0	0	0	0	97	101	76	118	107	137	99	0	1402
Std	39	18	21	72	82	103	82	81	100	114	96	83	412
Skew	2.0	2.1	1.1	1.4	0.8	0.8	0.4	0.5	0.5	0.9	0.7	0.9	0.6
CV	1.2	1.1	0.9	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.2

Note : Estimated rainfall in bold values.

**CASCADAS (CAS) OR LAS CASCADAS
ANNUAL RAINFALL MASS CURVE**



PEDRO MIGUEL (PMG)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	1	36	1	133	243	140	162	138	211	328	190	46	1629
1912	0	6	1	107	176	246	293	242	273	266	214	99	1923
1913	28	2	0	26	342	229	173	139	211	307	258	54	1769
1914	32	2	1	76	334	288	182	193	202	171	276	159	1917
1915	26	43	6	61	260	195	218	264	172	416	201	92	1955
1916	43	22	10	249	333	163	233	248	265	399	340	123	2430
1917	8	0	23	32	187	288	375	242	299	153	492	178	2277
1918	78	1	1	280	238	166	141	112	185	268	182	28	1679
1919	12	0	0	167	187	101	185	193	238	286	153	82	1605
1920	1	2	1	129	189	255	283	193	347	260	365	37	2062
1921	1	39	4	30	221	249	178	239	184	281	223	87	1737
1922	68	13	87	30	333	262	180	193	143	245	371	205	2131
1923	16	0	0	1	233	228	147	203	123	465	205	89	1709
1924	0	11	28	38	304	205	215	340	307	305	387	233	2374
1925	106	1	3	89	177	327	258	187	224	312	213	77	1972
1926	0	4	0	0	126	294	278	287	331	269	215	322	2126
1927	8	49	1	191	430	365	256	98	197	178	176	52	1999
1928	4	0	11	202	183	193	282	181	268	242	426	147	2138
1929	1	0	1	25	98	247	104	311	251	236	380	173	1827
1930	8	14	0	144	250	131	236	266	287	328	155	57	1876
1931	1	0	14	15	245	250	246	157	295	283	489	80	2077
1932	24	0	12	171	127	294	205	230	193	421	353	115	2145
1933	99	0	2	16	171	280	199	205	178	173	277	144	1742
1934	95	0	13	52	263	151	186	187	332	354	436	119	2189
1935	7	53	0	24	238	197	436	270	165	273	609	88	2359
1936	1	0	23	48	224	351	284	198	165	328	184	28	1832
1937	66	1	1	88	291	137	208	277	269	320	226	538	2420
1938	36	1	44	37	527	374	285	350	194	201	504	237	2790
1939	1	0	1	58	92	246	210	220	172	369	226	127	1721
1940	16	4	9	20	198	142	159	102	215	340	251	25	1481
1941	49	53	2	70	240	244	319	213	244	242	104	126	1907
1942	6	14	52	45	405	200	238	171	208	372	294	488	2494
1943	51	10	56	153	331	195	214	216	255	155	196	331	2162
1944	42	1	0	79	172	294	226	551	187	242	181	97	2070

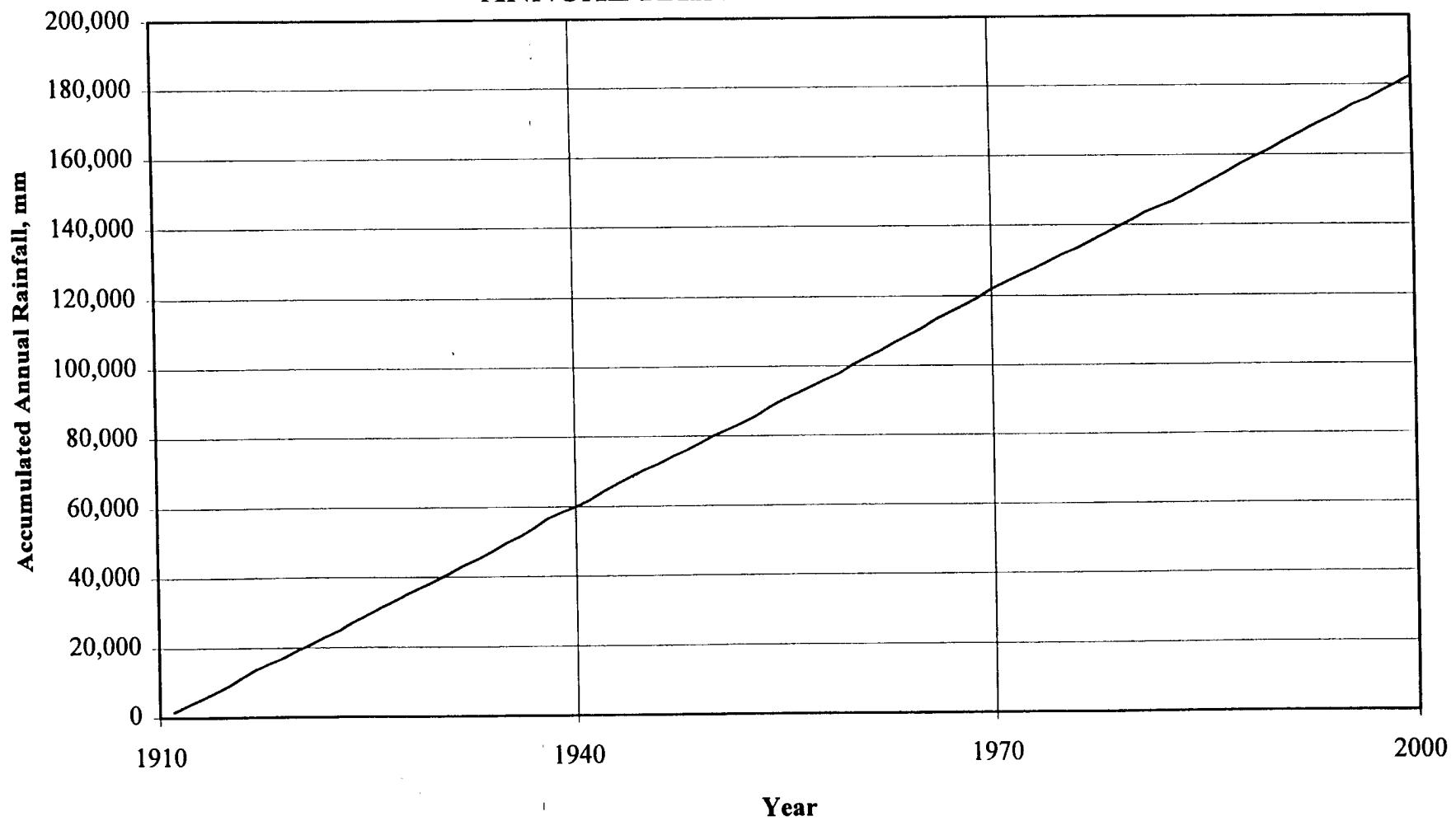
PEDRO MIGUEL (PMG)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	2	0	1	101	68	168	263	290	226	386	296	188	1989
1946	41	0	13	4	262	143	251	148	119	229	176	219	1605
1947	0	2	0	73	120	193	228	306	216	404	351	166	2060
1948	18	0	0	16	283	186	277	131	225	205	367	42	1750
1949	2	0	0	62	322	342	192	201	214	345	181	151	2011
1950	6	2	29	64	309	311	398	173	155	229	312	97	2085
1951	19	20	38	94	299	133	316	142	126	233	200	167	1789
1952	8	0	0	59	263	241	146	131	219	489	157	161	1875
1953	108	4	1	3	217	211	173	297	84	386	257	144	1885
1954	19	22	6	195	257	460	298	453	297	238	268	54	2567
1955	130	21	9	7	183	272	224	287	224	263	383	254	2256
1956	60	10	6	6	239	90	284	272	174	258	302	61	1763
1957	0	1	1	0	268	200	243	238	319	447	189	29	1936
1958	39	1	18	23	282	175	96	208	271	523	224	57	1915
1959	17	0	0	21	149	198	226	300	110	348	252	140	1760
1960	91	4	19	151	325	246	187	262	269	292	337	321	2504
1961	2	1	0	107	125	365	241	148	250	266	295	278	2077
1962	5	0	4	118	191	211	168	284	257	292	292	101	1923
1963	57	102	0	170	100	198	226	262	339	312	454	107	2327
1964	0	0	6	290	234	255	283	250	271	229	227	66	2110
1965	9	0	0	0	538	100	204	228	193	262	480	86	2100
1966	73	0	6	91	382	376	305	226	267	323	383	152	2584
1967	3	12	0	153	136	284	272	206	336	345	154	121	2023
1968	0	65	7	26	375	242	293	217	211	314	242	24	2015
1969	19	11	6	102	156	224	136	339	329	355	277	127	2079
1970	146	1	31	146	381	194	196	457	181	264	249	241	2487
1971	142	18	5	99	284	130	203	282	206	315	229	23	1935
1972	142	0	33	216	175	300	112	216	368	224	109	53	1948
1973	0	0	5	20	183	231	206	188	130	330	328	157	1778
1974	5	0	5	23	315	315	246	185	330	323	170	64	1981
1975	0	0	0	25	318	201	282	236	191	445	244	130	2070
1976	0	0	0	122	201	185	150	147	191	338	259	56	1648
1977	3	0	0	18	356	257	277	188	251	378	160	89	1976
1978	13	0	10	137	173	216	198	226	262	264	424	117	2040

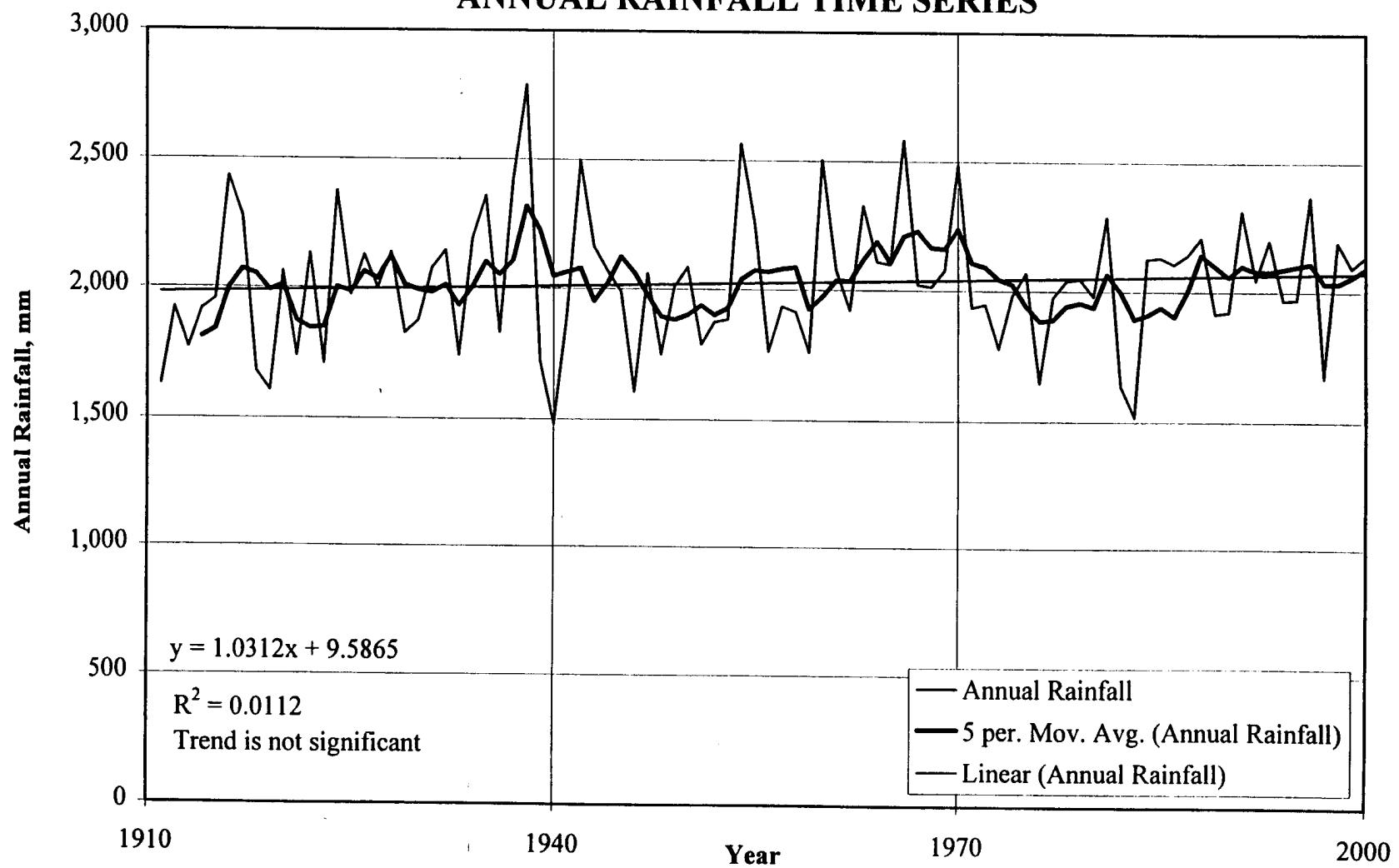
PEDRO MIGUEL (PMG)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	0	3	0	284	302	201	196	236	135	470	122	99	2047
1980	28	5	0	13	231	325	201	277	282	251	272	97	1981
1981	5	0	61	348	196	368	292	127	241	221	310	117	2286
1982	71	3	0	102	140	74	239	208	343	348	104	8	1638
1983	0	0	0	74	137	142	249	145	279	216	157	119	1519
1984	61	30	0	36	284	287	269	297	211	488	142	20	2126
1985	5	0	38	13	216	472	201	168	396	206	259	157	2131
1986	3	3	46	135	137	323	198	160	315	569	198	20	2106
1987	3	3	10	122	259	330	287	191	295	305	277	61	2141
1988	0	3	8	58	338	262	295	315	170	320	312	127	2207
1989	56	0	15	0	127	282	262	295	175	198	363	142	1915
990	23	0	0	107	213	178	335	295	193	328	137	114	1923
991	5	0	5	229	351	267	274	277	325	229	318	33	2311
1992	0	3	3	46	221	345	267	251	310	353	191	56	2045
1993	94	0	18	84	218	460	292	201	279	218	239	94	2197
1994	10	0	142	46	348	170	142	234	236	279	356	5	1968
1995	5	3	20	150	216	330	267	178	150	257	348	48	1971
1996	145	56	74	89	381	208	119	343	178	333	348	94	2367
1997	38	13	0	18	155	122	279	150	185	348	333	28	1669
1998	3	0	0	33	315	244	300	338	216	279	274	188	2189
1999	81	81	28	64	221	361	127	221	338	119	208	244	2093
2000	46	8	0	145	201	302	236	272	236	348	168	178	2139
Mean	31	10	13	87	245	243	232	232	234	304	271	124	2026
Max	146	102	142	348	538	472	436	551	396	569	609	538	2790
Min	0	0	0	0	68	74	96	98	84	119	104	5	1481
Std	40	19	22	76	91	84	64	77	66	86	102	94	255
Skew	1.5	2.7	3.2	1.2	0.7	0.5	0.3	1.2	0.1	0.6	0.8	1.9	0.4
CV	1.3	2.0	1.8	0.9	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.8	0.1

PEDRO MIGUEL (PMG)
ANNUAL RAINFALL MASS CURVE



PEDRO MIGUEL (PMG)
ANNUAL RAINFALL TIME SERIES



RACIES (RAI) OR LAS RACIES
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	49	0	35	94	364	238	186	143	186	513	219	101	2127
1912	35	29	7	77	299	300	300	195	289	427	517	142	2617
1913	88	46	28	64	450	284	212	340	287	301	265	105	2471
1914	40	29	18	80	345	244	61	126	382	430	381	142	2280
1915	62	226	29	235	216	330	346	213	258	290	296	214	2715
1916	52	71	70	125	307	191	337	263	218	447	347	80	2508
1917	15	11	12	106	296	240	294	415	214	255	733	232	2823
1918	101	9	10	121	384	137	121	148	230	399	196	23	1878
1919	63	9	10	161	185	312	144	172	214	403	192	143	2008
1920	15	10	24	29	236	270	256	275	155	611	231	64	2177
1921	39	34	13	55	159	258	330	432	292	312	355	272	2550
1922	122	24	2	42	399	203	92	338	263	407	426	280	2598
1923	99	12	14	41	312	339	114	162	289	687	357	31	2456
1924	1	54	0	137	320	381	323	147	310	190	179	85	2127
1925	13	2	1	23	174	230	290	120	305	304	212	40	1716
1926	0	0	3	15	200	374	391	265	229	366	351	355	2550
1927	47	44	35	279	403	271	188	134	172	182	312	217	2284
1928	69	50	70	5	259	278	170	365	325	304	342	161	2398
1929	43	7	46	33	324	222	141	184	210	285	215	110	1818
1930	50	48	39	136	135	179	265	102	189	212	144	75	1575
1931	69	0	87	110	199	239	350	132	227	310	539	48	2309
1932	101	11	0	133	277	408	181	148	168	414	480	149	2470
1933	104	9	30	39	169	289	146	109	255	168	420	164	1904
1934	64	11	43	125	293	248	167	164	337	292	212	482	2437
1935	69	68	68	84	267	290	369	238	349	215	931	514	3463
1936	35	0	28	84	327	129	260	311	276	436	456	137	2478
1937	72	3	1	98	362	249	192	211	265	429	246	596	2724
1938	54	17	41	125	460	454	135	267	250	339	366	435	2943
1939	39	0	23	0	148	233	160	211	291	309	547	308	2270
1940	90	15	18	20	178	181	101	290	221	282	324	70	1789
1941	102	83	53	123	181	266	243	293	204	337	224	104	2211
1942	77	48	55	89	352	181	153	300	383	439	165	303	2546
1943	44	47	51	234	438	393	207	188	305	281	321	298	2808
1944	32	41	2	142	367	269	221	297	222	418	253	343	2606

RACIES (RAI) OR LAS RACIES
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	49	6	6	34	293	229	199	202	226	172	447	300	2164
1946	43	3	24	57	140	137	251	204	259	214	273	278	1884
1947	6	17	10	11	156	286	251	154	285	398	144	140	1858
1948	41	8	15	6	252	197	247	214	221	204	354	105	1864
1949	8	7	34	12	181	251	264	282	133	414	539	247	2373
1950	5	27	20	75	234	215	308	256	292	290	478	345	2545
1951	15	83	8	144	178	87	129	103	286	419	233	157	1843
1952	75	33	3	58	154	155	151	178	125	546	265	265	2008
1953	125	12	21	29	242	151	286	177	293	351	378	142	2203
1954	40	21	19	62	255	214	169	164	206	274	305	166	1894
1955	233	18	30	21	276	217	208	353	360	340	552	265	2874
1956	140	53	94	108	310	166	343	141	167	356	362	102	2344
1957	12	5	2	0	250	201	260	252	162	278	230	241	1893
1958	81	92	66	142	150	123	324	265	214	338	125	112	2032
1959	27	2	5	91	208	430	211	213	277	314	271	506	2557
1960	11	15	99	237	279	298	86	194	177	315	298	538	2546
1961	17	4	2	86	154	230	194	333	205	308	283	197	2014
1962	95	0	32	36	199	203	197	156	251	163	218	148	1697
1963	118	13	10	106	294	196	299	375	263	473	310	32	2489
1964	0	0	39	133	274	226	251	229	268	274	244	18	1956
1965	124	6	0	0	239	161	181	179	352	295	528	97	2162
1966	24	7	15	83	252	270	250	347	216	249	664	433	2811
1967	30	1	20	138	130	253	253	193	223	243	375	73	1932
1968	0	59	35	13	298	161	149	207	145	279	199	30	1576
1969	77	33	12	106	330	175	256	125	319	269	362	244	2307
1970	164	11	82	68	277	212	322	255	229	193	517	417	2748
1971	79	49	66	1	304	203	241	224	310	178	284	10	1949
1972	114	25	56	284	163	241	53	142	279	264	165	147	1935
1973	28	10	8	64	127	231	185	264	272	368	521	89	2167
1974	0	5	23	36	185	112	292	323	272	315	467	97	2126
1975	3	8	28	10	185	264	140	434	163	399	343	356	2332
1976	25	5	3	117	185	178	94	170	445	241	193	89	1745
1977	23	8	0	0	185	188	155	325	218	295	287	112	1796
1978	66	15	91	310	150	257	196	211	231	188	173	51	1938

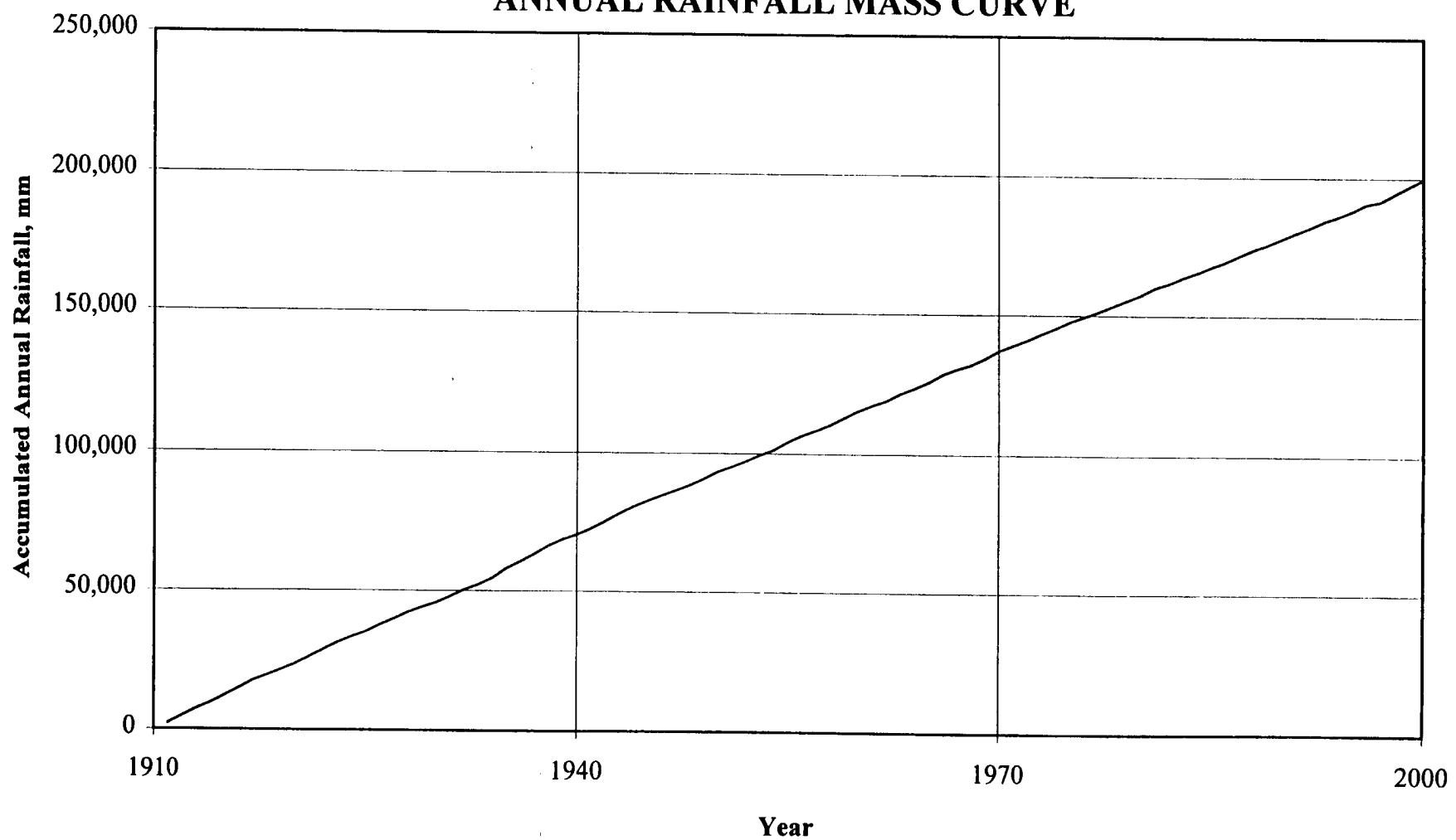
RACIES (RAI) OR LAS RACIES
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	8	23	3	140	208	221	157	310	246	307	307	127	2057
1980	112	15	0	56	279	229	272	284	163	203	254	127	1994
1981	114	15	28	358	272	279	312	173	79	183	488	290	2591
1982	135	13	23	135	229	165	109	99	185	386	140	41	1659
1983	33	3	15	58	351	305	208	201	239	257	188	218	2075
1984	74	46	8	36	300	160	102	356	130	249	320	53	1831
1985	97	41	5	5	239	295	160	206	226	185	229	328	2014
1986	28	10	10	284	180	175	178	157	274	335	150	74	1857
1987	33	51	0	175	406	130	218	267	315	378	183	122	2278
1988	8	25	3	64	203	371	165	318	411	211	320	114	2212
1989	8	0	3	15	109	117	119	213	302	378	356	112	1732
1990	13	3	36	71	279	145	249	152	279	406	213	257	2103
1991	36	18	122	48	478	170	226	117	330	333	345	71	2294
1992	10	23	5	163	160	254	244	236	264	203	297	157	2017
1993	66	5	79	183	206	277	130	201	361	363	264	145	2278
1994	61	15	48	76	307	196	25	188	216	152	340	56	1681
1995	152	3	28	89	196	305	348	135	173	231	300	188	2146
1996	371	142	69	89	452	211	175	196	282	183	246	119	2535
1997	20	33	0	33	142	127	157	191	137	122	86	13	1062
1998	8	23	23	218	353	269	264	290	160	478	140	399	2624
1999	79	41	94	71	168	345	185	401	386	257	411	406	2845
2000	99	20	3	61	216	495	198	206	130	376	203	538	2545
Mean	60	26	28	93	256	239	212	227	249	315	321	193	2218
Max	371	226	122	358	478	495	391	434	445	687	931	596	3463
Min	0	0	0	0	109	87	25	99	79	122	86	10	1062
Std	56	33	28	77	88	79	79	82	71	104	143	141	385
Skew	2.4	3.4	1.2	1.3	0.6	0.8	0.1	0.6	0.2	0.8	1.4	1.0	0.2
CV	0.9	1.3	1.0	0.8	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.7	0.2

Note : Estimated rainfall in bold values.

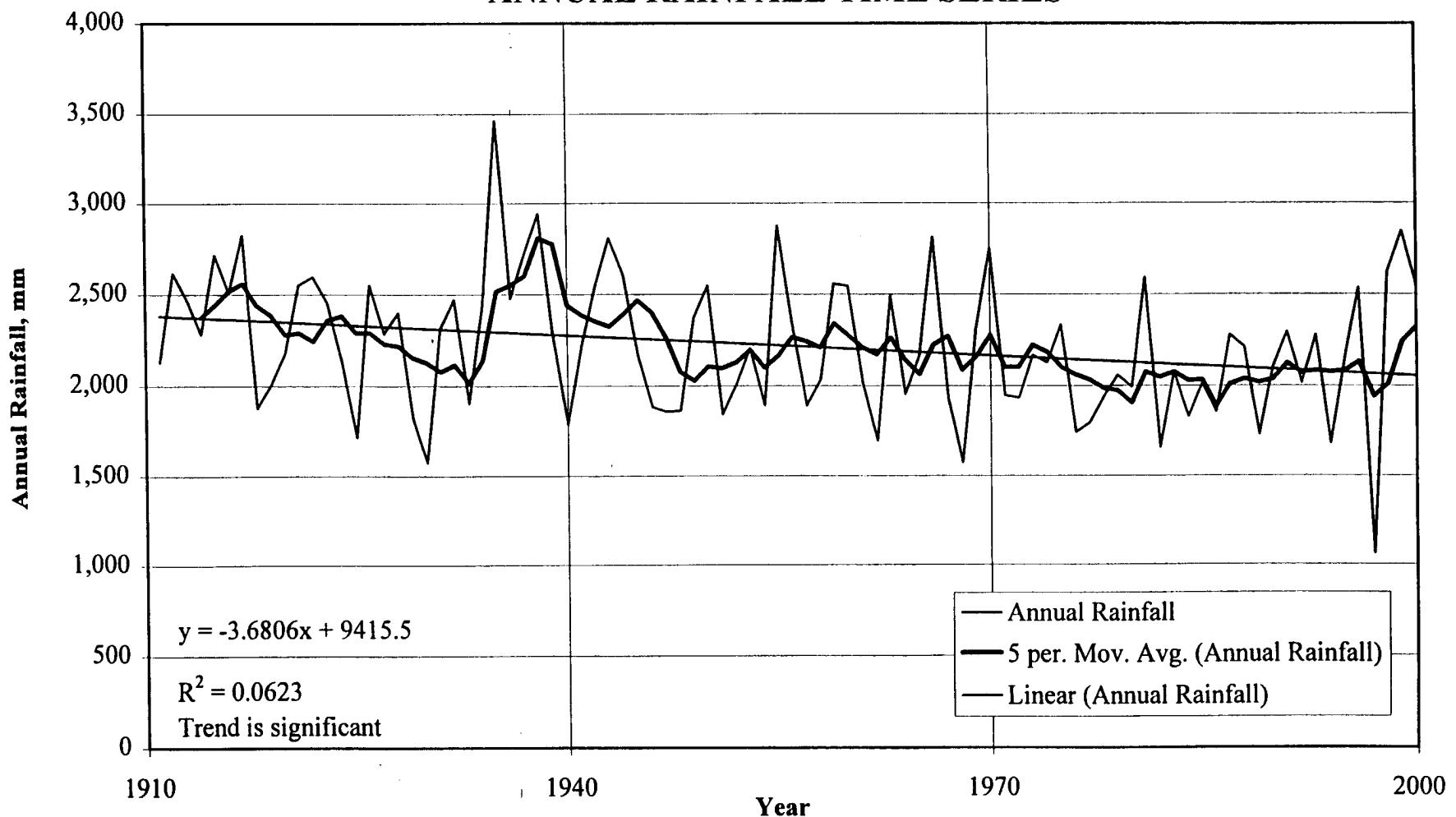
**RACIES (RAI) OR LAS RACIES
ANNUAL RAINFALL MASS CURVE**

D-115



**RACIES (RAI) OR LAS RACIES
ANNUAL RAINFALL TIME SERIES**

D-116



RIO PIEDRAS (RPD)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	15	104	24	183	276	164	119	131	352	604	235	4	2212
1912	0	11	0	60	190	227	213	136	258	382	326	14	1818
1913	29	25	0	5	361	321	220	281	420	337	266	142	2408
1914	0	0	0	0	135	291	77	317	448	242	275	99	1885
1915	0	133	76	320	135	367	374	300	207	297	373	88	2670
1916	27	60	8	157	189	247	329	221	225	320	255	7	2046
1917	0	0	3	72	224	279	292	299	351	158	378	16	2074
1918	81	37	30	144	456	362	205	88	267	262	155	16	2104
1919	92	37	22	237	133	178	145	254	434	279	209	83	2102
1920	12	0	37	82	222	345	275	189	266	388	256	0	2072
1921	40	67	46	269	234	362	449	459	566	481	235	187	3395
1922	67	41	0	68	306	345	80	197	235	396	252	334	2322
1923	0	25	8	37	100	240	221	169	338	572	251	0	1961
1924	19	45	20	129	274	187	529	334	452	48	167	0	2202
1925	37	0	0	36	196	434	243	244	250	418	195	163	2217
1926	0	45	28	75	169	477	312	280	315	328	282	403	2714
1927	48	109	88	186	280	209	446	111	292	238	308	409	2724
1928	65	6	93	70	232	173	259	284	269	331	313	171	2265
1929	0	36	52	33	238	215	167	290	271	259	240	44	1846
1930	46	22	25	143	329	135	292	107	270	183	135	0	1687
1931	23	10	95	17	376	259	253	197	381	389	601	154	2755
1932	71	0	25	180	279	171	160	373	366	547	423	70	2665
1933	91	23	63	34	345	421	358	193	248	121	393	92	2382
1934	21	0	3	81	383	203	315	166	301	337	244	80	2136
1935	0	80	4	9	354	312	614	375	319	296	719	170	3252
1936	45	0	0	77	346	90	185	204	289	371	214	0	1821
1937	94	0	0	50	225	185	247	127	316	342	325	388	2299
1938	7	29	7	130	665	268	232	531	325	287	213	622	3317
1939	27	0	7	0	101	335	172	268	372	290	392	194	2157
1940	33	5	18	55	126	116	190	196	209	200	211	0	1359
1941	19	119	60	76	249	309	161	139	360	501	257	0	2252
1942	0	0	31	30	316	113	153	262	257	285	101	173	1722
1943	109	49	80	61	345	393	218	270	324	310	196	412	2766
1944	9	11	38	221	181	387	185	475	263	408	213	243	2632

RIO PIEDRAS (RPD)
MONTHLY RAINFALL IN MM

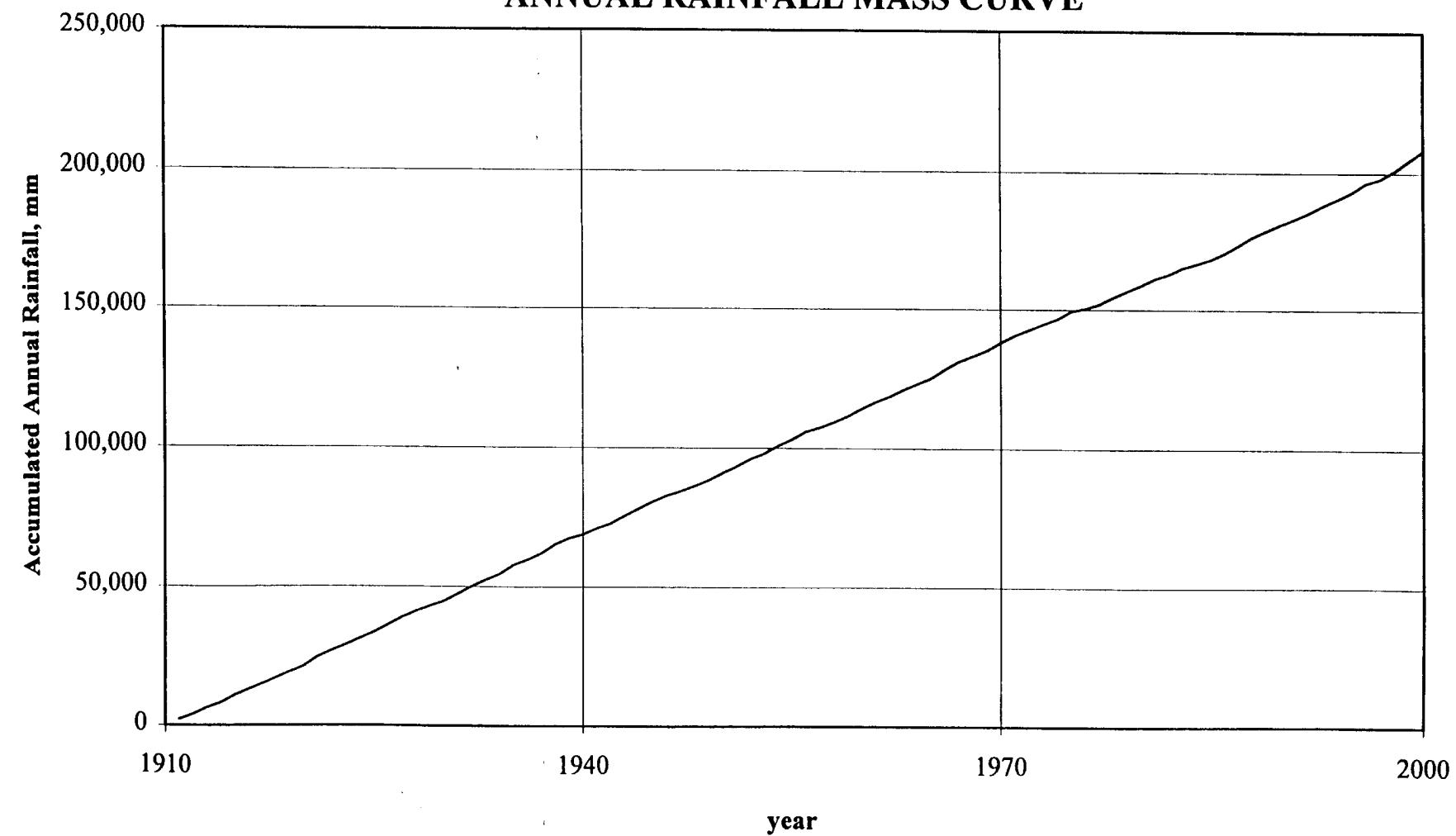
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	14	0	0	192	330	330	432	411	165	193	312	147	2525
1946	21	4	20	32	290	347	395	150	393	222	185	120	2181
1947	0	25	19	31	34	210	126	227	182	213	232	281	1579
1948	18	0	0	21	187	170	417	224	211	232	291	97	1868
1949	0	0	17	23	171	405	265	273	264	313	336	10	2075
1950	7	11	0	45	243	398	686	313	215	92	253	257	2521
1951	29	116	0	91	281	93	252	340	384	335	225	183	2329
1952	8	0	0	28	236	379	325	323	424	427	253	459	2862
1953	174	16	48	69	421	43	114	139	120	352	323	64	1884
1954	0	74	0	0	336	362	375	258	466	362	392	135	2759
1955	129	18	84	0	88	292	278	353	232	268	467	144	2353
1956	122	122	53	154	446	298	394	280	254	299	310	86	2819
1957	0	23	8	45	217	143	106	79	142	318	168	106	1355
1958	48	23	12	4	199	388	244	281	220	186	281	0	1886
1959	0	0	0	46	178	325	184	399	366	364	121	196	2179
1960	78	3	12	136	445	201	433	275	212	225	173	503	2696
1961	6	0	3	145	264	589	159	232	372	268	169	167	2374
1962	8	0	0	72	204	133	202	271	284	272	234	268	1948
1963	38	54	17	291	255	387	341	421	269	164	161	0	2399
1964	0	13	0	41	80	350	297	261	187	377	462	122	2190
1965	16	0	13	65	168	131	196	308	340	319	349	149	2053
1966	50	20	31	236	435	219	288	372	394	420	360	418	3243
1967	7	36	60	183	226	585	359	240	266	349	353	148	2810
1968	0	44	48	0	315	181	242	227	155	352	334	120	2017
1969	39	9	99	155	196	91	235	273	292	173	263	250	2075
1970	250	96	49	175	352	178	247	349	361	248	238	362	2905
1971	33	23	64	0	393	331	428	296	353	277	288	28	2516
1972	102	26	13	167	265	392	101	156	238	399	189	7	2054
1973	23	9	5	0	178	200	301	182	258	385	407	102	2048
1974	6	248	42	53	77	194	197	124	349	274	218	126	1907
1975	0	39	0	18	419	293	327	214	304	651	307	267	2838
1976	2	0	6	42	112	108	0	162	230	173	112	0	947
1977	49	0	16	15	193	124	152	253	242	311	208	26	1590
1978	1	28	65	206	477	309	249	241	265	382	303	122	2647

RIO PIEDRAS (RPD)
MONTHLY RAINFALL IN MM

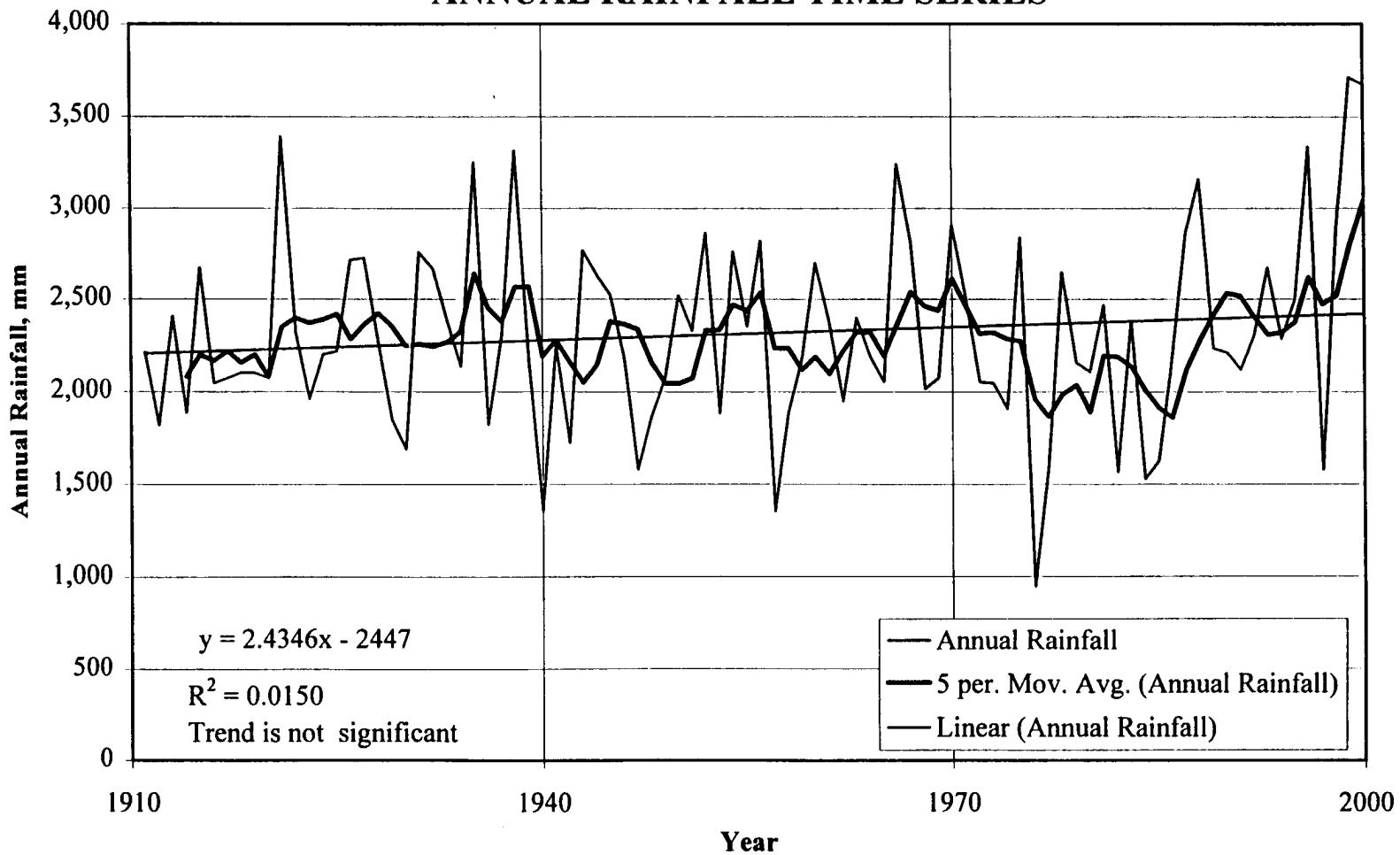
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	0	0	0	118	87	123	353	162	151	345	431	388	2158
1980	86	82	16	29	148	317	221	275	159	191	281	302	2108
1981	139	18	59	482	256	369	215	273	178	169	198	114	2468
1982	9	0	0	18	160	262	216	77	265	449	110	0	1566
1983	9	41	18	167	289	178	110	155	376	436	295	309	2384
1984	12	68	0	0	15	134	215	350	157	328	246	5	1528
1985	52	1	72	19	30	168	231	165	320	175	107	284	1624
1986	28	0	41	191	290	234	130	112	284	528	284	74	2195
1987	33	41	13	310	462	201	330	318	340	373	340	99	2860
1988	13	102	23	48	478	404	406	394	406	447	330	109	3160
1989	56	114	30	51	102	185	389	264	206	292	353	193	2235
1990	0	0	0	0	307	69	274	259	371	470	226	236	2212
1991	13	38	81	91	257	216	335	178	353	254	277	28	2121
1992	13	5	10	58	366	345	201	300	234	399	264	109	2304
1993	61	3	147	188	368	577	193	188	399	310	163	74	2670
1994	28	28	41	30	401	251	213	239	165	340	483	66	2286
1995	23	0	8	28	244	470	381	467	244	206	259	168	2497
1996	226	84	74	213	455	290	287	396	251	351	414	297	3338
1997	10	33	10	104	216	231	58	112	264	198	312	28	1577
1998	20	15	33	84	472	145	429	290	394	264	419	335	2901
1999	79	155	48	175	315	650	302	348	371	254	300	716	3713
2000	119	28	33	142	274	455	244	460	452	462	287	719	3675
Mean	38	34	28	96	263	273	264	257	295	318	281	166	2314
Max	250	248	147	482	665	650	686	531	566	651	719	719	3713
Min	0	0	0	0	15	43	0	77	120	48	101	0	947
Std	48	44	31	90	121	126	118	99	87	111	104	161	519
Skew	2.2	2.1	1.3	1.4	0.4	0.6	0.8	0.4	0.3	0.4	1.2	1.4	0.4
CV	1.3	1.3	1.1	0.9	0.5	0.5	0.4	0.4	0.3	0.3	0.4	1.0	0.2

Note : Estimated rainfall in bold values.

RIO PIEDRAS (RPD)
ANNUAL RAINFALL MASS CURVE



RIO PIEDRAS (RPD)
ANNUAL RAINFALL TIME SERIES



SALAMANCA (SAL)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	0	27	24	77	441	282	110	153	230	365	289	59	2055
1912	20	20	4	27	340	304	297	308	197	380	305	75	2277
1913	57	21	3	18	385	306	132	196	216	228	439	43	2044
1914	6	13	3	65	170	308	195	223	462	473	244	92	2254
1915	15	94	3	246	162	372	485	340	291	415	478	115	3015
1916	4	45	17	214	270	275	389	363	313	518	410	157	2976
1917	8	4	4	22	493	258	449	407	229	493	609	153	3129
1918	38	7	1	131	345	428	250	180	310	361	166	31	2248
1919	21	2	1	262	186	169	325	271	382	259	288	69	2235
1920	12	5	9	37	215	340	556	319	255	609	315	45	2717
1921	11	33	15	70	200	382	238	378	314	491	215	177	2524
1922	106	13	1	13	359	310	59	224	358	325	307	182	2256
1923	37	14	10	19	178	265	125	336	403	803	197	43	2428
1924	5	51	1	96	326	427	401	355	233	290	284	172	2641
1925	31	8	4	76	129	260	273	203	301	318	296	62	1960
1926	3	36	10	1	119	333	334	472	456	414	338	200	2717
1927	52	52	24	188	406	447	754	213	370	260	427	220	3414
1928	26	44	46	29	156	309	352	360	332	442	489	132	2718
1929	5	8	18	22	227	300	239	204	260	397	212	58	1950
1930	13	9	.8	112	281	173	261	130	332	234	144	59	1754
1931	17	16	58	37	469	399	329	283	391	307	717	72	3095
1932	52	7	6	86	399	433	214	352	249	524	710	104	3135
1933	35	2	14	1	272	163	348	342	368	239	464	213	2461
1934	28	9	18	56	389	326	153	213	325	331	462	189	2500
1935	90	22	22	97	393	405	482	477	302	228	1248	310	4076
1936	23	4	12	65	413	365	392	259	420	282	365	28	2627
1937	122	14	4	31	304	305	375	382	303	406	487	465	3198
1938	13	7	5	148	453	240	190	367	404	415	398	353	2992
1939	7	2	5	8	138	252	137	203	255	336	466	211	2019
1940	49	24	4	11	238	147	206	261	286	352	420	17	2016
1941	19	87	21	53	309	415	316	295	232	363	305	134	2550
1942	18	3	16	78	213	295	229	288	315	405	124	223	2208
1943	52	36	3	97	299	259	127	206	315	311	268	352	2324
1944	25	13	2	189	252	178	223	431	276	617	272	372	2849

SALAMANCA (SAL)
MONTHLY RAINFALL IN MM

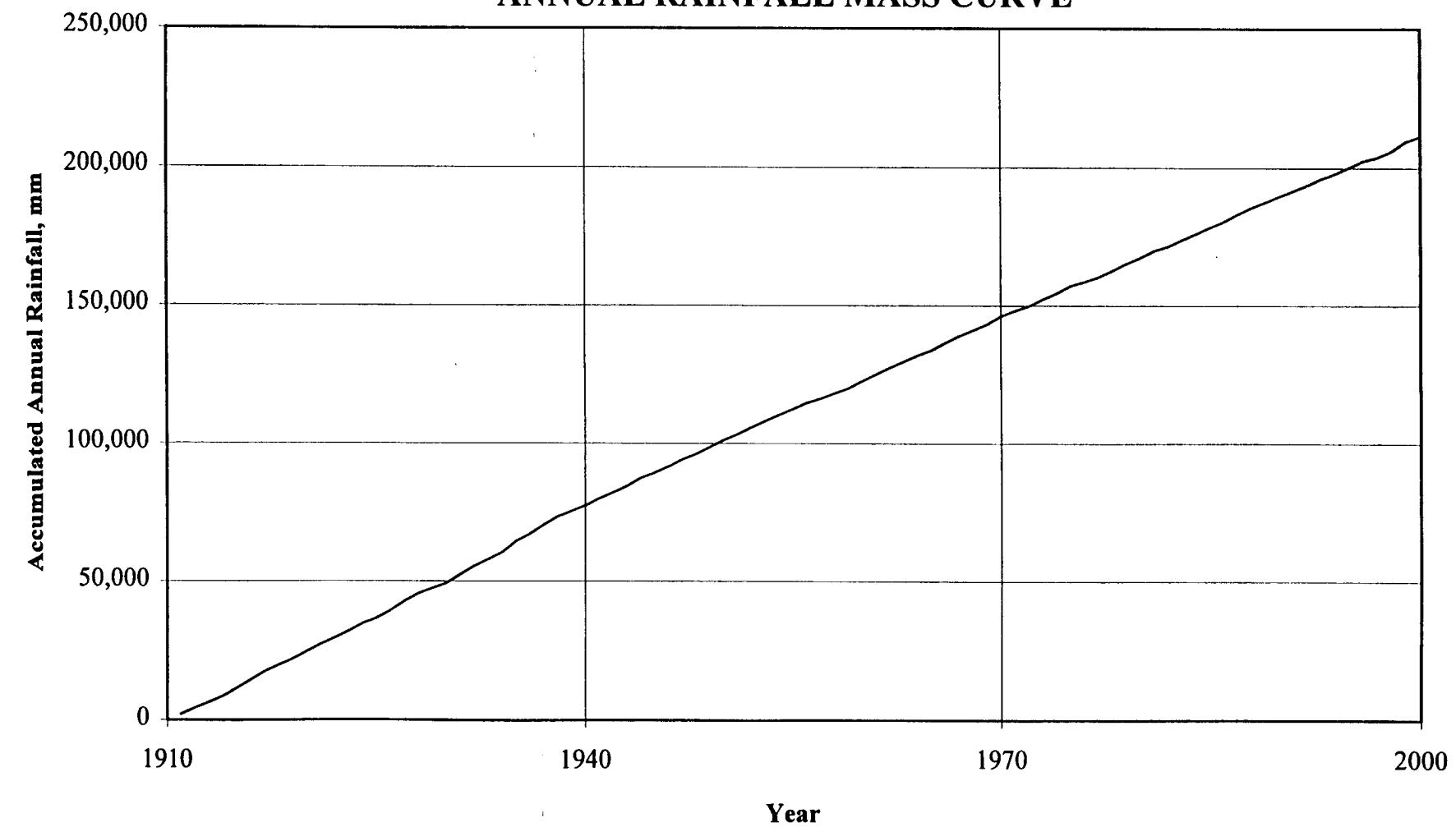
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	13	3	3	9	226	230	321	243	255	205	180	253	1941
1946	3	7	6	20	302	271	345	181	435	289	215	218	2294
1947	3	6	4	93	194	446	267	338	277	418	250	222	2518
1948	14	2	8	11	257	221	298	299	245	265	336	65	2020
1949	6	6	3	28	222	505	413	290	317	217	317	158	2482
1950	7	16	4	83	223	408	258	291	287	236	356	308	2475
1951	9	138	6	104	312	332	203	330	167	273	225	89	2186
1952	42	9	0	82	391	240	243	213	281	496	160	280	2436
1953	106	24	10	76	45	192	367	206	393	374	288	227	2309
1954	20	19	25	98	234	216	347	339	251	240	279	151	2220
1955	169	4	15	17	154	336	303	332	135	186	347	120	2118
1956	139	22	25	61	281	196	371	177	230	334	453	66	2353
1957	4	2	0	0	104	179	203	209	150	296	301	60	1508
1958	25	21	63	31	271	273	262	157	264	210	254	69	1900
1959	3	0	0	27	72	293	136	276	278	256	183	366	1890
1960	84	10	25	109	317	273	189	349	289	330	289	318	2580
1961	5	4	8	128	94	362	261	434	366	357	327	136	2481
1962	17	3	19	18	254	251	356	433	174	391	250	220	2385
1963	154	39	3	112	162	197	368	304	245	248	402	7	2240
1964	0	0	3	130	173	338	303	281	245	418	329	97	2318
1965	33	2	0	0	240	154	234	317	204	248	361	156	1950
1966	31	9	65	65	226	282	333	356	356	356	356	267	2700
1967	14	4	7	170	157	369	344	312	268	320	310	208	2481
1968	3	23	17	35	234	329	99	280	171	468	352	79	2091
1969	19	3	22	175	251	250	122	366	395	145	196	210	2154
1970	260	18	27	350	422	214	296	273	297	258	212	253	2879
1971	59	7	72	8	87	353	307	358	201	310	178	8	1947
1972	160	15	41	160	193	188	97	86	279	117	198	99	1633
1973	15	8	0	20	325	305	269	343	183	396	493	119	2476
1974	8	3	5	51	178	442	188	229	213	424	269	84	2093
1975	8	0	38	33	363	257	381	399	185	592	272	218	2746
1976	30	5	8	51	157	183	81	249	259	165	198	18	1405
1977	15	5	0	18	224	140	97	356	193	384	226	117	1773
1978	15	13	23	310	191	338	147	368	284	198	480	18	2385

SALAMANCA (SAL)
MONTHLY RAINFALL IN MM

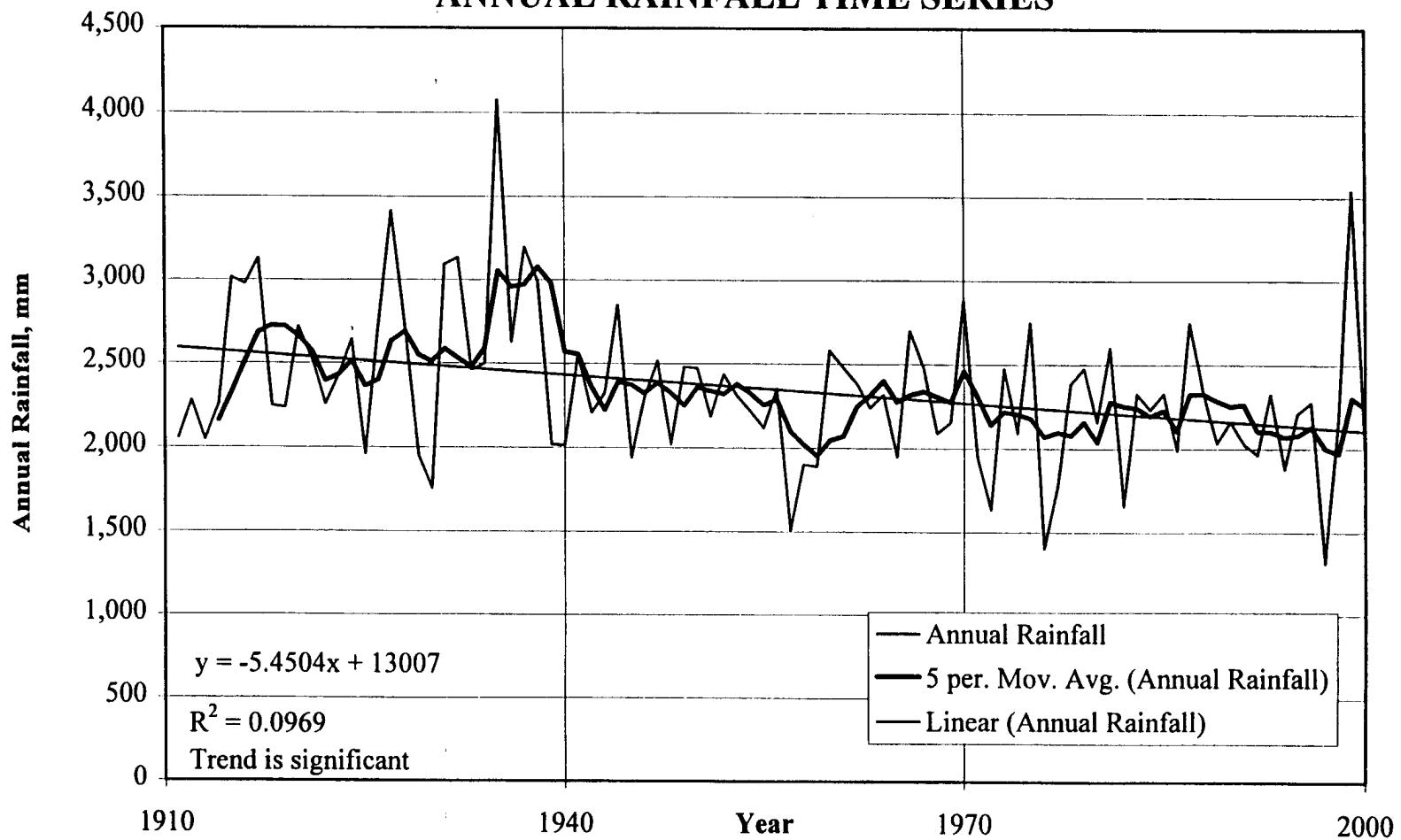
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	3	5	3	417	180	259	257	404	152	366	274	157	2476
1980	84	41	8	36	287	279	191	218	282	335	330	66	2156
1981	48	13	53	229	155	340	414	272	178	241	343	312	2598
1982	89	3	3	145	259	264	216	79	127	305	155	13	1656
1983	3	0	23	81	201	224	86	231	439	406	371	262	2327
1984	20	26	2	20	254	361	249	368	249	328	320	36	2233
1985	41	10	25	28	284	297	191	257	376	323	229	269	2329
1986	8	3	3	218	119	340	107	193	323	419	211	46	1989
1987	13	10	3	404	251	241	414	231	264	452	323	140	2746
1988	0	10	10	10	201	196	434	287	328	434	325	104	2339
1989	20	28	3	3	84	218	305	345	168	417	312	132	2035
1990	76	0	18	8	226	135	221	333	340	366	216	226	2164
1991	28	13	28	114	282	175	180	267	290	305	305	41	2027
1992	8	0	3	150	274	310	239	312	213	218	178	58	1963
1993	43	0	76	104	218	523	163	142	386	282	318	69	2324
1994	23	8	30	0	300	272	157	178	297	335	259	18	1877
1995	25	3	58	76	155	224	264	302	251	343	340	170	2212
1996	183	28	43	102	180	366	104	305	338	287	249	91	2276
1997	3	8	0	81	188	251	122	112	221	226	94	10	1316
1998	8	3	3	79	284	279	198	406	312	178	175	249	2174
1999	41	46	30	53	361	351	371	343	320	376	622	625	3538
2000	81	13	5	76	74	256	304	270	166	490	55	139	1928
Mean	37	16	15	87	248	291	266	287	283	345	322	152	2349
Max	260	138	76	417	493	523	754	477	462	803	1248	625	4076
Min	0	0	0	0	45	135	59	79	127	117	55	7	1316
Std	47	22	18	88	98	85	119	85	77	114	157	113	457
Skew	2.3	3.1	1.7	1.8	0.3	0.4	0.8	-0.2	0.2	0.9	2.7	1.2	0.8
CV	1.3	1.3	1.2	1.0	0.4	0.3	0.4	0.3	0.3	0.3	0.5	0.7	0.2

Note : Estimated rainfall in bold values.

SALAMANCA (SAL)
ANNUAL RAINFALL MASS CURVE



SALAMANCA (SAL)
ANNUAL RAINFALL TIME SERIES



SAN MIGUEL (SMG)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	143	34	62	307	577	266	135	213	238	376	377	166	2893
1912	166	69	0	161	309	440	291	339	258	432	584	322	3371
1913	0	36	27	0	498	361	340	255	303	367	302	144	2632
1914	6	56	111	187	317	232	195	370	597	519	455	206	3248
1915	65	259	30	444	346	420	617	261	248	319	503	252	3764
1916	91	113	1	588	482	198	455	231	284	370	238	162	3213
1917	0	0	46	99	346	295	536	380	305	188	481	245	2921
1918	154	71	108	149	400	439	478	407	381	502	354	11	3454
1919	100	58	0	592	351	293	251	288	492	307	265	464	3460
1920	122	62	106	138	303	236	781	431	223	321	328	123	3174
1921	0	110	8	248	412	301	291	517	336	370	306	366	3266
1922	375	112	139	271	482	289	130	185	227	196	400	212	3018
1923	89	58	17	115	412	396	260	321	317	596	306	547	3434
1924	87	81	5	336	565	299	434	554	472	262	225	113	3431
1925	182	86	38	423	233	606	493	239	295	459	276	209	3541
1926	19	34	105	316	562	595	506	415	328	276	497	373	4024
1927	131	184	157	470	862	360	622	346	306	138	561	761	4898
1928	156	60	223	42	279	584	278	367	367	481	652	269	3760
1929	0	120	76	161	272	588	647	603	227	188	303	276	3462
1930	215	35	112	361	330	250	327	227	288	160	292	270	2866
1931	193	125	350	51	612	437	413	273	366	602	904	581	4907
1932	143	30	127	174	313	268	240	163	198	583	808	629	3677
1933	346	54	98	217	508	395	662	376	328	141	469	392	3984
1934	26	0	79	90	434	246	305	375	339	422	702	467	3485
1935	137	81	37	110	415	312	541	356	265	346	1446	850	4895
1936	171	62	0	104	427	217	400	489	410	486	552	242	3559
1937	249	97	74	51	425	424	358	393	427	332	873	545	4249
1938	102	119	98	452	751	643	289	389	282	159	282	372	3938
1939	46	0	73	7	152	417	200	421	372	425	454	137	2706
1940	130	54	15	93	539	323	379	421	349	367	567	292	3529
1941	82	146	218	89	384	486	320	423	234	628	479	130	3619
1942	67	66	220	187	255	556	251	324	306	448	192	277	3149
1943	71	68	43	184	382	296	167	307	352	197	234	541	2843
1944	69	46	21	152	216	287	224	342	292	550	294	437	2929

SAN MIGUEL (SMG)
MONTHLY RAINFALL IN MM

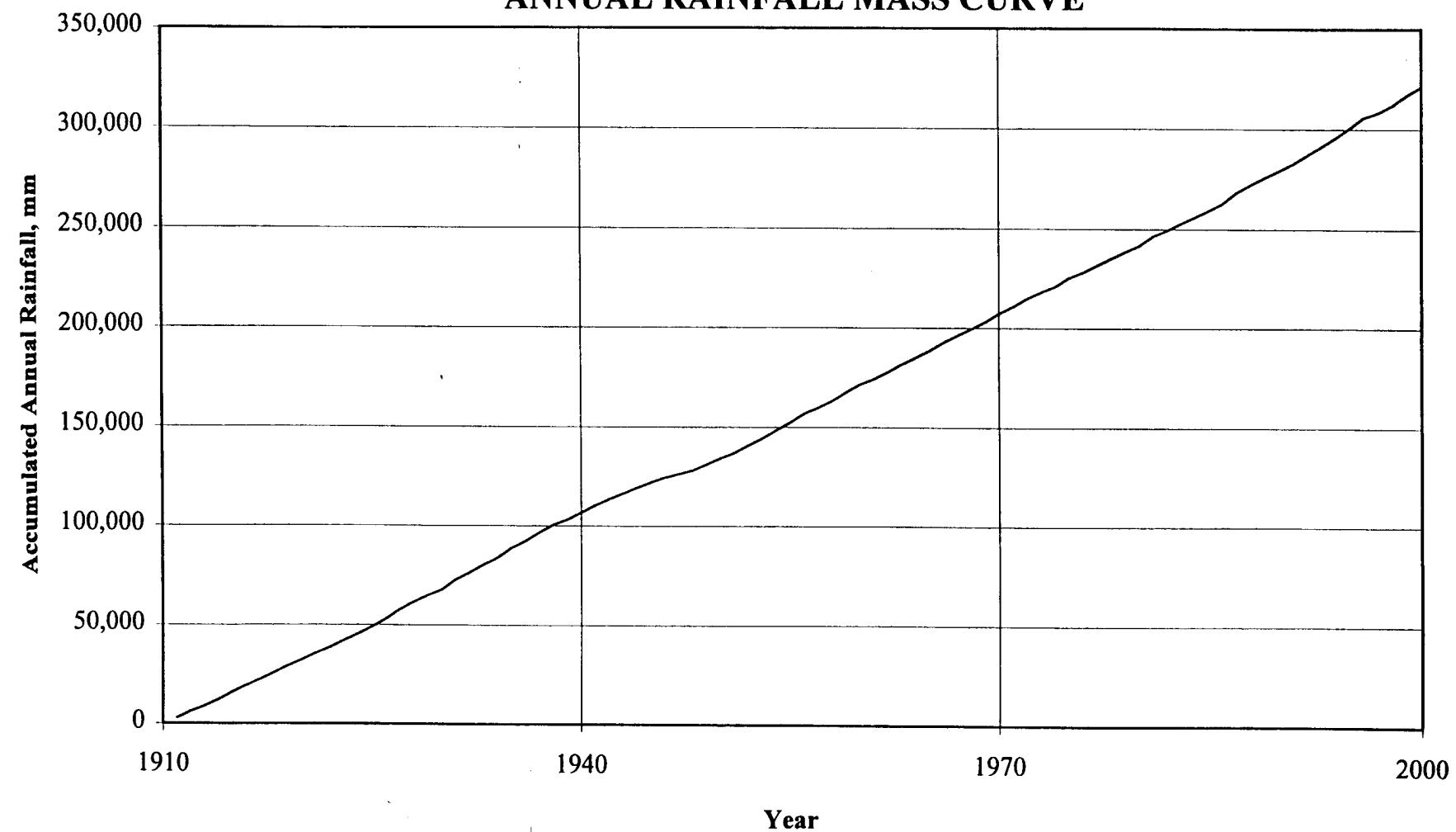
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	50	21	18	64	295	384	442	434	256	237	247	284	2732
1946	13	17	40	46	399	250	468	221	268	202	153	342	2419
1947	13	47	20	141	136	371	186	399	221	0	0	197	1731
1948	40	19	27	41	154	279	310	248	232	221	364	56	1991
1949	6	16	11	107	262	507	388	357	336	380	397	144	2912
1950	17	59	7	249	339	281	402	532	214	281	320	395	3095
1951	32	135	25	247	287	255	188	441	311	390	229	163	2703
1952	37	5	1	196	458	242	537	546	519	560	233	533	3866
1953	435	113	131	143	458	183	406	387	181	325	382	403	3545
1954	105	133	89	185	399	418	424	453	263	267	668	566	3970
1955	546	67	127	70	309	223	401	511	237	181	927	399	4000
1956	482	117	277	216	587	320	463	427	267	292	529	393	4370
1957	81	78	12	32	382	203	169	302	201	442	773	345	3020
1958	337	150	149	92	315	242	466	239	418	309	396	281	3391
1959	67	36	28	230	288	487	364	277	664	417	673	712	4242
1960	130	71	141	556	450	331	302	300	245	271	411	710	3920
1961	89	23	42	239	300	488	331	304	267	385	193	84	2745
1962	192	65	96	277	536	250	290	309	243	406	554	282	3501
1963	216	153	45	363	586	401	492	465	343	229	403	251	3946
1964	0	26	47	196	273	469	400	678	388	425	346	80	3329
1965	198	1	1	1	511	501	223	263	399	489	620	429	3634
1966	232	44	65	467	390	345	233	291	378	349	860	459	4113
1967	139	45	116	441	329	454	384	318	295	255	541	407	3724
1968	27	133	189	136	457	389	418	327	244	436	252	249	3258
1969	150	67	66	113	614	149	426	328	342	181	356	720	3513
1970	742	169	129	419	609	257	318	398	290	382	465	358	4535
1971	174	63	237	8	388	549	475	302	254	516	427	124	3517
1972	795	84	38	353	434	452	297	302	340	361	305	302	4064
1973	102	69	28	71	445	282	376	424	284	229	648	396	3353
1974	89	46	66	84	264	262	363	246	394	305	561	140	2819
1975	84	43	76	86	577	635	549	551	279	478	437	564	4359
1976	127	99	119	264	249	234	142	279	493	389	340	69	2804
1977	221	38	64	122	257	284	290	500	340	729	424	305	3574
1978	91	165	107	417	493	206	508	404	391	173	434	112	3500

SAN MIGUEL (SMG)
MONTHLY RAINFALL IN MM

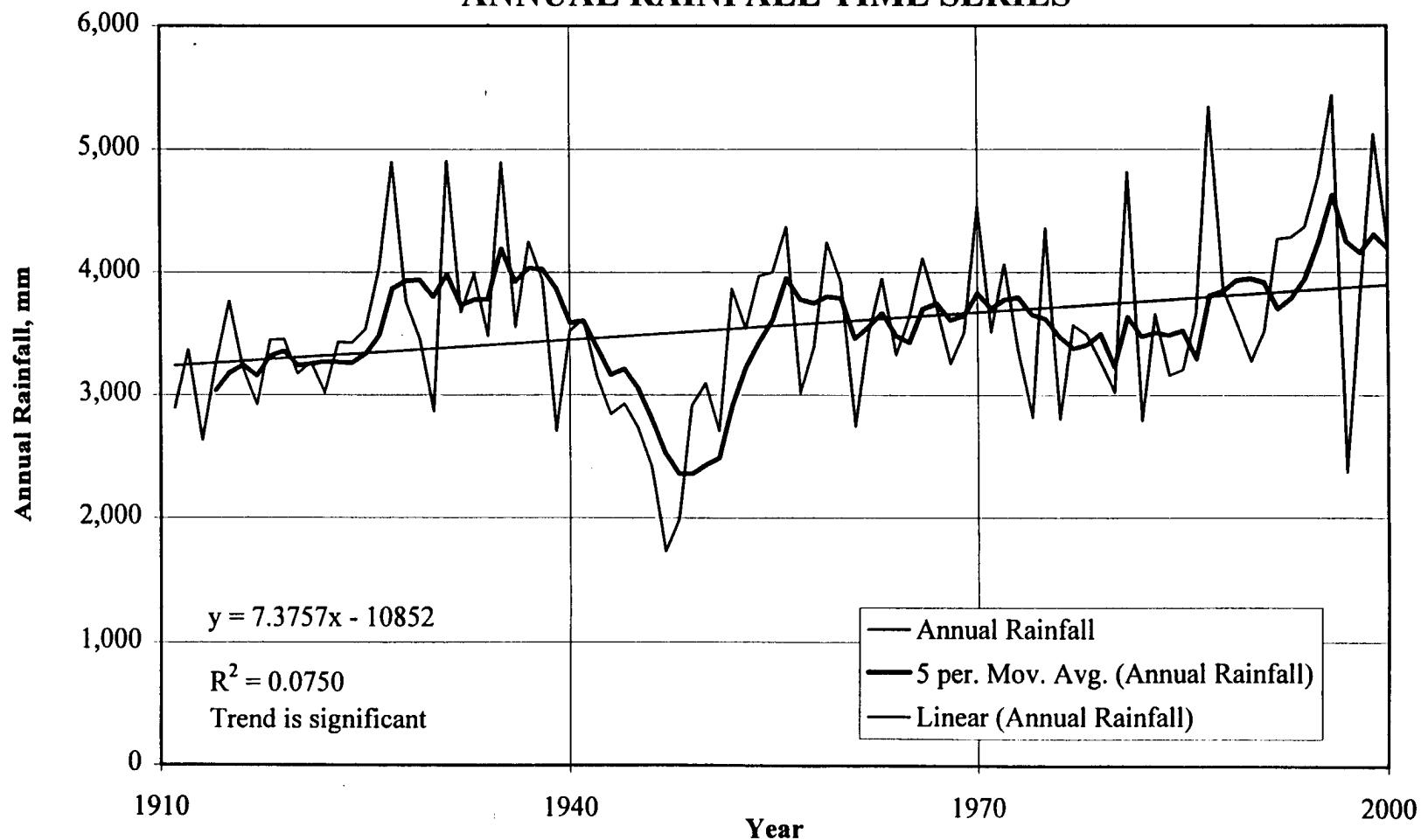
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	25	99	104	368	302	376	340	218	259	188	483	511	3274
1980	251	178	48	117	312	411	180	305	236	343	348	295	3025
1981	371	155	89	1110	386	274	533	208	282	384	434	589	4816
1982	175	64	46	203	180	290	475	340	277	411	173	160	2794
1983	86	33	56	208	432	318	257	274	386	376	282	955	3663
1984	117	112	28	48	290	343	447	564	249	358	394	216	3165
1985	114	81	132	122	401	480	257	198	368	401	259	396	3211
1986	168	28	94	394	498	528	193	427	500	300	424	114	3668
1987	97	142	20	650	803	460	434	404	516	429	965	427	5347
1988	51	287	127	99	429	297	800	612	173	635	254	94	3858
1989	135	221	0	0	320	419	546	343	325	503	478	297	3586
1990	178	30	152	142	424	274	269	394	315	632	274	193	3279
1991	66	112	84	163	500	274	221	274	582	315	767	168	3526
1992	97	69	71	437	869	406	353	622	333	272	422	320	4270
1993	193	48	340	495	292	536	284	226	462	648	396	363	4285
1994	84	89	218	84	602	660	391	579	300	330	808	226	4371
1995	292	48	157	259	384	645	638	267	401	315	511	861	4778
1996	792	348	295	264	660	437	267	340	284	282	846	620	5436
1997	97	165	46	97	518	272	246	236	211	246	168	76	2377
1998	91	76	74	318	351	470	386	541	333	269	323	582	3813
1999	180	213	267	450	417	414	564	356	267	361	452	1181	5121
2000	239	107	91	188	445	508	318	414	272	505	325	790	4201
Mean	154	86	89	225	413	371	374	366	324	361	451	356	3571
Max	795	348	350	1110	869	660	800	678	664	729	1446	1181	5436
Min	0	0	0	0	136	149	130	163	173	0	0	11	1731
Std	158	64	79	182	146	124	143	113	95	137	224	224	704
Skew	2.4	1.5	1.4	1.7	0.8	0.5	0.6	0.6	1.2	0.3	1.4	1.1	0.3
CV	1.0	0.7	0.9	0.8	0.4	0.3	0.4	0.3	0.3	0.4	0.5	0.6	0.2

Note : Estimated rainfall in bold values.

SAN MIGUEL (SMG)
ANNUAL RAINFALL MASS CURVE



SAN MIGUEL (SMG)
ANNUAL RAINFALL TIME SERIES



SANTA ROSA (SRO)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	41	63	32	210	369	257	241	236	213	390	223	80	2355
1912	0	38	14	23	251	352	268	495	286	459	275	63	2523
1913	51	18	0	169	266	184	286	356	288	236	297	119	2271
1914	0	20	12	132	193	716	181	324	435	459	313	57	2842
1915	52	81	32	415	199	450	245	212	404	599	323	248	3262
1916	9	53	39	149	309	409	317	394	457	391	253	41	2820
1917	49	0	13	103	374	255	319	416	300	428	408	124	2789
1918	97	21	45	139	250	385	221	258	255	373	147	47	2236
1919	25	12	32	398	152	171	271	221	252	705	266	42	2549
1920	1	0	8	79	156	283	346	280	321	519	290	15	2298
1921	29	149	5	65	215	341	373	339	455	318	201	253	2741
1922	160	85	0	0	258	358	190	323	345	306	240	289	2554
1923	30	0	5	0	283	218	249	244	316	765	292	0	2402
1924	0	71	34	143	327	318	269	283	355	234	414	452	2901
1925	76	10	33	29	94	381	209	287	355	266	288	24	2052
1926	0	3	0	0	60	534	340	433	374	300	360	188	2594
1927	0	0	31	178	220	624	274	288	271	206	249	128	2470
1928	18	11	74	163	216	194	302	388	324	473	311	145	2619
1929	12	3	46	79	233	161	262	389	289	465	344	55	2337
1930	0	16	10	200	241	132	294	317	327	147	227	0	1910
1931	27	6	68	66	370	395	254	245	354	270	474	122	2650
1932	0	19	23	198	305	395	245	330	234	492	408	34	2683
1933	0	2	27	59	275	263	206	350	345	292	507	477	2802
1934	87	1	22	157	358	212	243	313	427	427	344	187	2778
1935	64	31	0	177	328	306	410	430	309	361	608	138	3164
1936	44	25	26	143	210	239	363	219	396	451	212	0	2330
1937	88	19	30	66	154	299	247	365	358	233	420	413	2692
1938	26	3	10	85	344	398	344	368	351	515	257	226	2928
1939	0	6	28	75	121	228	228	217	316	237	407	133	1996
1940	40	21	19	85	168	165	215	377	380	378	305	64	2217
1941	64	54	22	87	188	239	344	242	315	309	285	208	2357
1942	13	8	62	276	240	418	221	183	338	402	294	318	2772
1943	87	24	23	178	283	386	247	263	239	337	331	397	2796
1944	11	0	27	186	297	89	229	432	235	702	226	200	2635

SANTA ROSA (SRO)
MONTHLY RAINFALL IN MM

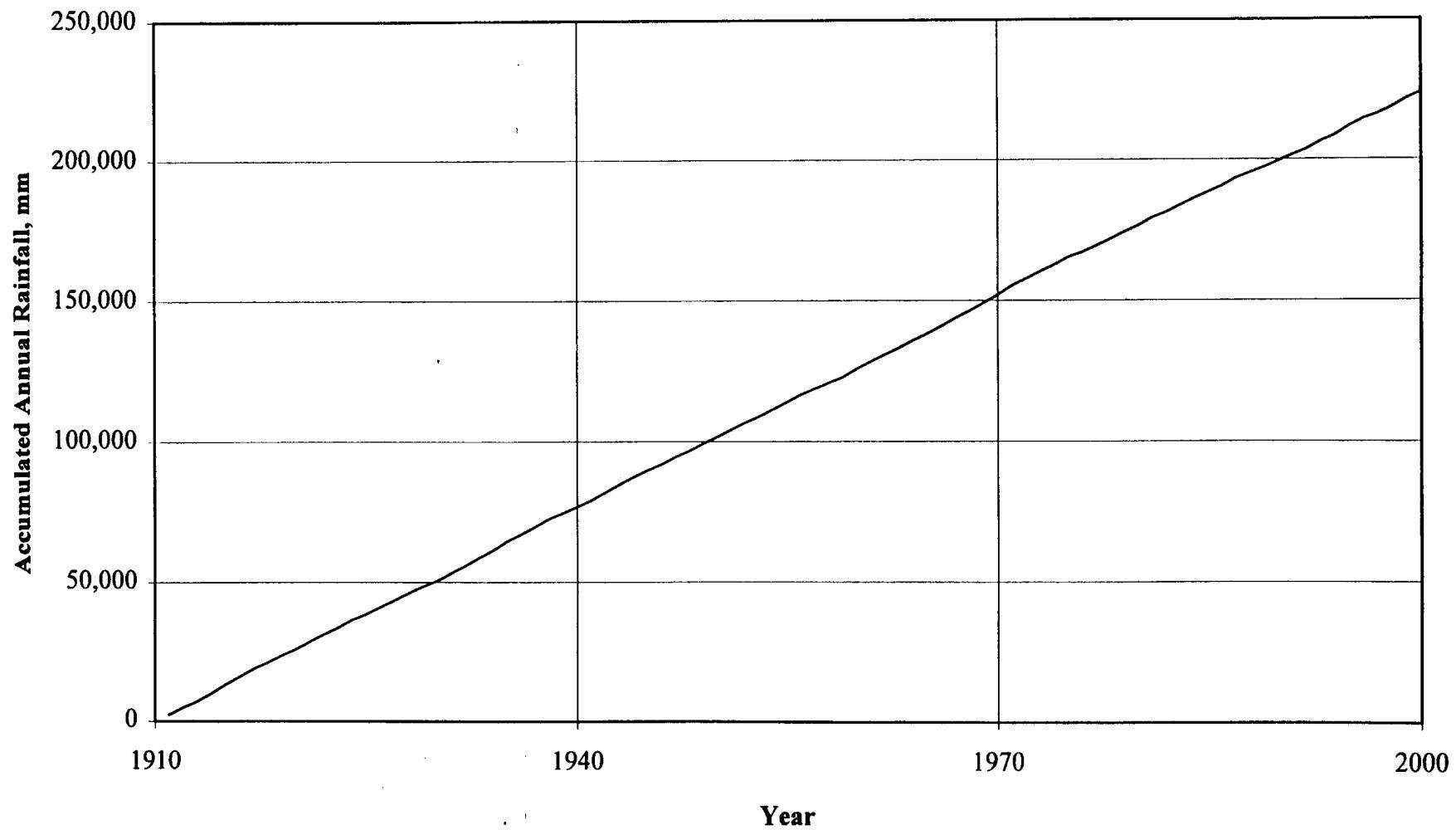
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	28	26	11	121	233	108	324	358	301	340	319	223	2391
1946	66	0	40	49	160	247	328	172	288	174	386	170	2078
1947	11	9	29	112	245	403	236	449	444	290	260	171	2660
1948	11	0	13	40	334	295	297	301	145	405	405	51	2297
1949	1	0	27	45	260	409	267	293	291	359	421	100	2473
1950	16	13	35	56	200	428	387	272	214	180	380	240	2421
1951	19	109	0	247	290	232	267	330	222	359	259	156	2491
1952	26	24	3	96	301	677	279	127	252	315	183	275	2558
1953	104	21	27	146	297	193	285	201	221	370	269	75	2206
1954	4	5	47	156	270	259	361	376	286	282	339	144	2527
1955	147	13	15	29	244	564	327	334	204	157	319	178	2529
1956	99	34	27	164	323	194	374	251	347	517	298	26	2652
1957	13	5	0	0	224	322	231	233	518	329	281	31	2185
1958	40	31	39	75	296	234	231	256	245	185	271	104	2007
1959	0	0	6	14	232	221	166	207	189	302	191	474	2002
1960	7	13	50	145	273	305	358	383	308	463	278	390	2971
1961	45	0	44	92	225	570	290	349	349	405	243	126	2739
1962	0	0	25	73	198	203	276	268	415	363	311	230	2363
1963	144	10	30	64	223	286	342	419	257	198	348	0	2321
1964	5	0	29	183	279	338	374	329	331	312	395	144	2718
1965	34	8	16	29	282	208	201	226	376	424	382	147	2333
1966	19	0	3	125	200	441	237	251	471	239	522	266	2774
1967	0	0	9	137	261	387	337	377	425	355	326	92	2705
1968	26	54	8	17	274	447	256	522	383	339	306	40	2672
1969	27	15	14	151	224	148	335	630	337	268	370	190	2709
1970	144	33	59	263	254	180	263	360	384	363	366	300	2968
1971	294	30	88	115	382	291	395	373	434	380	337	27	3143
1972	161	29	34	252	225	288	246	196	376	369	254	95	2524
1973	85	0	1	36	236	575	315	163	340	334	403	54	2542
1974	0	28	19	122	259	560	287	130	300	487	178	0	2372
1975	0	29	50	48	162	251	320	273	344	417	421	363	2677
1976	4	0	21	57	157	326	176	186	281	226	228	20	1682
1977	0	9	5	83	277	234	215	420	262	317	286	170	2280
1978	0	7	31	239	300	331	328	247	190	285	215	215	2387

SANTA ROSA (SRO)
MONTHLY RAINFALL IN MM

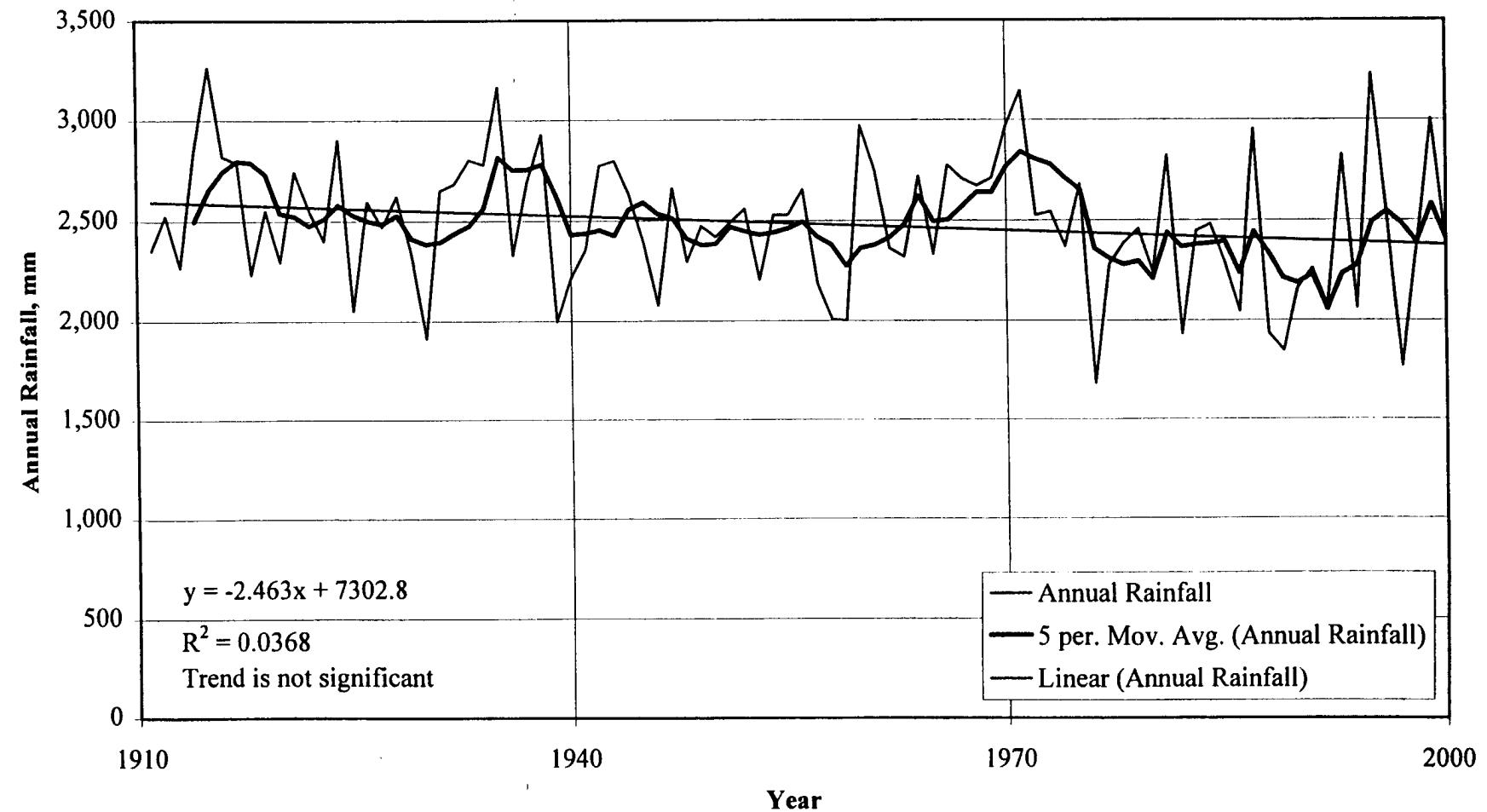
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	12	2	17	295	121	393	322	415	132	403	218	127	2457
1980	96	27	17	49	271	186	301	351	329	264	256	99	2244
1981	53	0	50	560	315	271	308	328	131	165	367	274	2821
1982	117	0	4	129	283	152	207	131	329	359	221	0	1932
1983	4	0	0	64	375	245	231	223	392	426	309	179	2447
1984	20	74	24	95	228	244	251	373	435	369	370	0	2482
1985	63	0	12	0	312	368	314	214	449	177	280	96	2287
1986	8	15	61	107	81	422	196	170	244	465	213	64	2045
1987	5	5	15	363	277	442	318	338	495	333	279	84	2954
1988	30	5	5	56	191	229	277	173	315	348	246	58	1933
1989	13	25	20	0	206	109	295	277	150	180	480	91	1847
1990	18	5	20	38	267	114	307	239	335	396	264	157	2162
1991	13	0	28	117	378	368	277	178	277	297	236	91	2261
1992	3	0	3	168	236	353	279	272	305	213	178	66	2075
1993	97	5	66	213	206	366	333	229	523	409	305	74	2824
1994	25	3	10	23	226	173	196	300	284	490	290	41	2060
1995	0	0	5	165	345	315	356	427	401	587	429	198	3228
1996	257	13	56	89	257	323	312	406	236	231	300	51	2530
1997	5	0	0	46	213	262	239	213	297	224	264	5	1768
1998	3	5	0	58	213	351	259	343	361	183	264	328	2367
1999	20	122	36	81	267	467	185	363	231	348	409	472	3002
2000	33	3	5	66	249	269	221	361	295	353	262	249	2365
Mean	41	19	24	121	249	315	279	304	321	353	311	149	2486
Max	294	149	88	560	382	716	410	630	523	765	608	477	3262
Min	0	0	0	0	60	89	166	127	131	147	147	0	1682
Std	55	28	19	98	67	130	56	94	85	123	84	123	335
Skew	2.3	2.5	0.9	1.7	-0.3	0.8	0.1	0.5	0.1	0.8	0.8	1.0	0.0
CV	1.3	1.5	0.8	0.8	0.3	0.4	0.2	0.3	0.3	0.3	0.3	0.8	0.1

Note : Estimated rainfall in bold values.

SANTA ROSA (SRO)
ANNUAL RAINFALL MASS CURVE



SANTA ROSA (SRO)
ANNUAL RAINFALL TIME SERIES



FILLED-IN STREAMFLOW DATA

GATUN RIVER AT CIENTO (CNT)
MONTHLY FLOW IN M³/S

Lat. 09-18 N Long. 79-44 W Elev. 30.48 mPLD D.A. 117 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1941	1.2	2.5	1.6	1.3	2.8	4.1	3.7	8.6	9.3	18.5	16.2	9.0	6.6
1942	3.3	3.8	2.2	1.5	0.2	10.7	12.0	11.0	10.2	14.4	12.2	7.0	7.4
1943	3.1	2.6	2.8	2.5	5.6	7.5	5.0	7.2	7.0	10.6	13.0	19.5	7.2
1944	4.6	2.3	1.2	2.8	9.1	5.0	7.4	12.1	6.0	20.4	15.4	20.2	8.9
1945	5.7	3.3	1.5	0.9	2.7	3.2	3.9	3.8	8.7	14.0	19.5	30.5	8.1
1946	5.1	1.9	2.0	1.2	2.6	3.3	9.2	6.4	8.9	6.9	7.8	16.0	5.9
1947	4.7	2.5	1.2	1.2	2.1	5.5	9.4	9.1	7.8	9.0	10.8	9.4	6.1
1948	4.2	2.4	1.5	0.8	2.7	3.2	6.6	4.9	4.8	5.8	9.9	3.9	4.2
1949	2.0	1.3	1.0	0.9	2.6	6.3	6.8	7.0	7.1	9.9	19.5	9.8	6.2
1950	3.0	2.3	1.7	1.8	3.7	5.9	8.6	7.2	6.2	6.2	17.3	20.9	7.1
1951	3.6	4.7	2.4	2.1	4.2	4.0	5.5	8.7	7.4	10.0	10.3	7.0	5.8
1952	3.1	2.3	1.9	1.5	2.5	5.1	8.0	7.4	7.3	11.4	8.3	13.5	6.0
1953	6.9	4.7	2.6	2.4	4.9	3.9	8.8	8.0	9.3	17.0	18.8	9.0	8.0
1954	3.9	2.8	1.4	1.6	6.0	5.9	11.4	9.5	9.1	8.8	15.4	10.1	7.2
1955	8.4	2.8	1.6	1.1	1.7	3.9	4.8	9.2	5.6	8.2	14.4	8.1	5.8
1956	6.5	2.4	1.8	2.0	6.6	6.4	9.1	5.6	6.6	10.5	15.7	5.3	6.5
1957	0.9	0.5	0.4	0.3	0.5	0.5	0.5	0.6	1.3	5.2	11.5	4.0	2.2
1958	4.1	3.1	2.4	1.5	3.2	4.5	4.8	3.7	6.5	6.1	6.8	5.9	4.4
1959	2.6	1.6	1.1	1.0	1.9	3.5	3.3	4.1	8.0	9.9	16.8	26.0	6.7
1960	4.7	0.9	0.9	3.5	6.1	5.7	4.6	5.9	3.9	8.3	11.4	22.1	6.5
1961	2.8	1.6	1.1	1.1	2.5	8.9	7.1	6.8	8.2	12.7	15.7	8.0	6.4
1962	3.5	2.2	1.5	1.0	13.4	10.9	15.4	13.3	11.2	11.9	13.2	9.5	8.9
1963	9.7	2.9	1.6	1.3	7.5	13.3	12.2	19.6	15.3	18.8	34.1	6.2	11.9
1964	3.1	1.4	1.0	1.6	7.4	15.8	26.6	22.9	16.6	26.4	30.8	10.7	13.7
1965	4.6	3.3	2.0	1.1	5.6	9.0	8.3	11.1	11.2	35.5	56.2	25.5	14.5
1966	8.6	3.0	1.3	5.9	5.9	5.5	5.6	6.9	7.0	12.2	20.5	7.8	7.5
1967	3.2	2.8	1.9	2.2	8.1	8.4	10.3	7.9	7.4	13.4	18.0	14.8	8.2
1968	5.1	2.2	1.7	0.8	2.4	1.1	4.5	4.7	5.5	5.7	6.8	3.8	3.7
1969	4.3	2.0	1.9	1.3	1.1	1.2	4.4	7.4	6.8	10.3	12.8	17.0	5.9
1970	8.9	3.2	2.0	3.1	7.2	6.8	5.7	5.7	7.6	16.0	15.6	10.5	7.7
1971	7.1	3.2	2.7	2.0	2.5	3.8	8.4	9.3	6.4	10.1	12.9	4.3	6.1
1972	10.6	3.0	1.8	3.2	4.1	7.2	5.0	3.6	7.2	9.5	8.8	10.5	6.2
1973	5.4	4.0	1.2	0.9	4.5	9.5	10.1	11.1	12.1	5.7	21.0	9.3	7.9
1974	5.0	2.8	1.9	1.2	1.8	3.6	4.3	5.3	6.4	12.6	19.0	9.2	6.1
1975	2.4	2.0	0.7	0.7	0.8	4.1	9.4	10.4	2.7	13.4	18.2	16.1	6.7

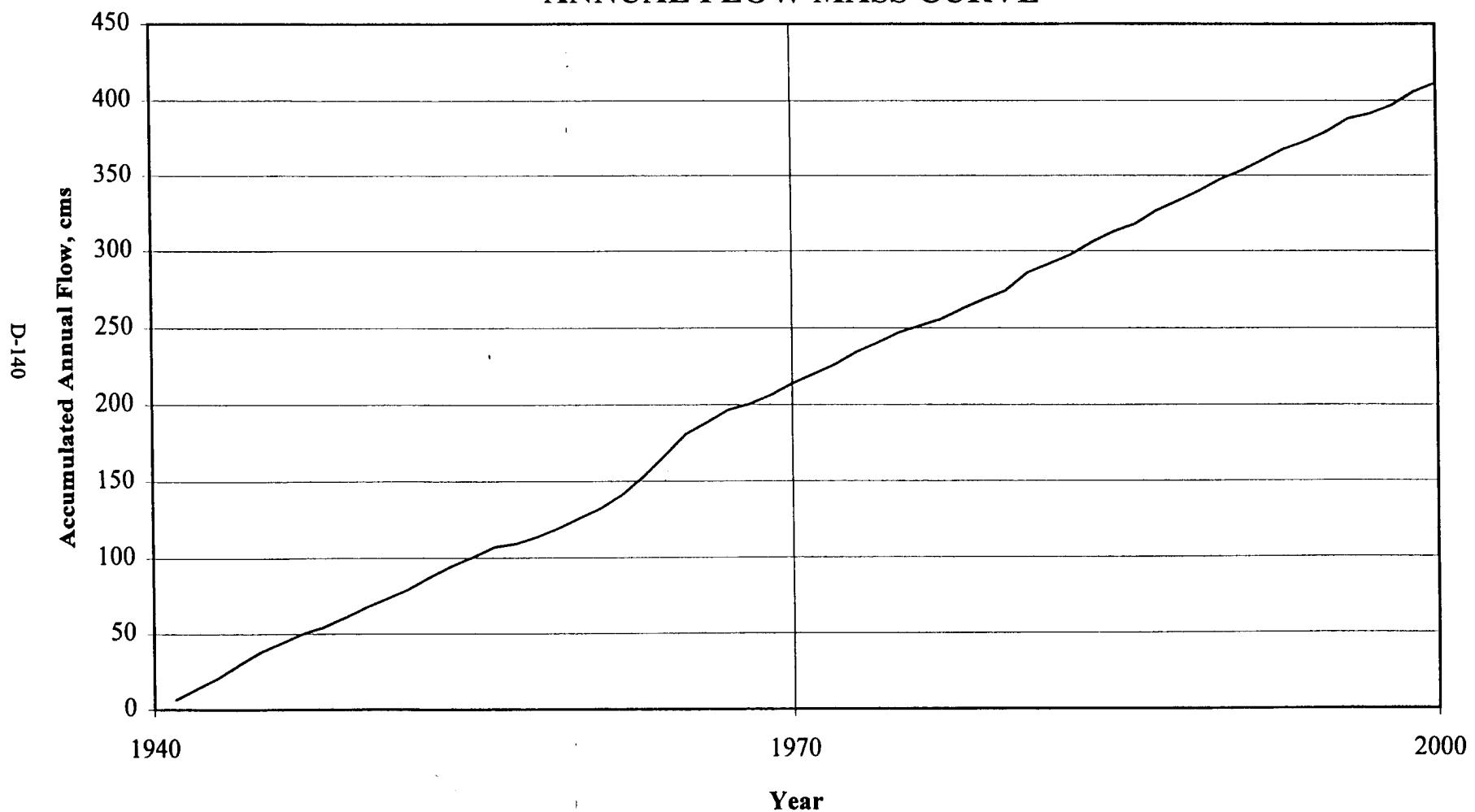
GATUN RIVER AT CIENTO (CNT)
MONTHLY FLOW IN M³/S

Lat. 09-18 N Long. 79-44 W Elev. 30.48 mPLD D.A. 117 km²

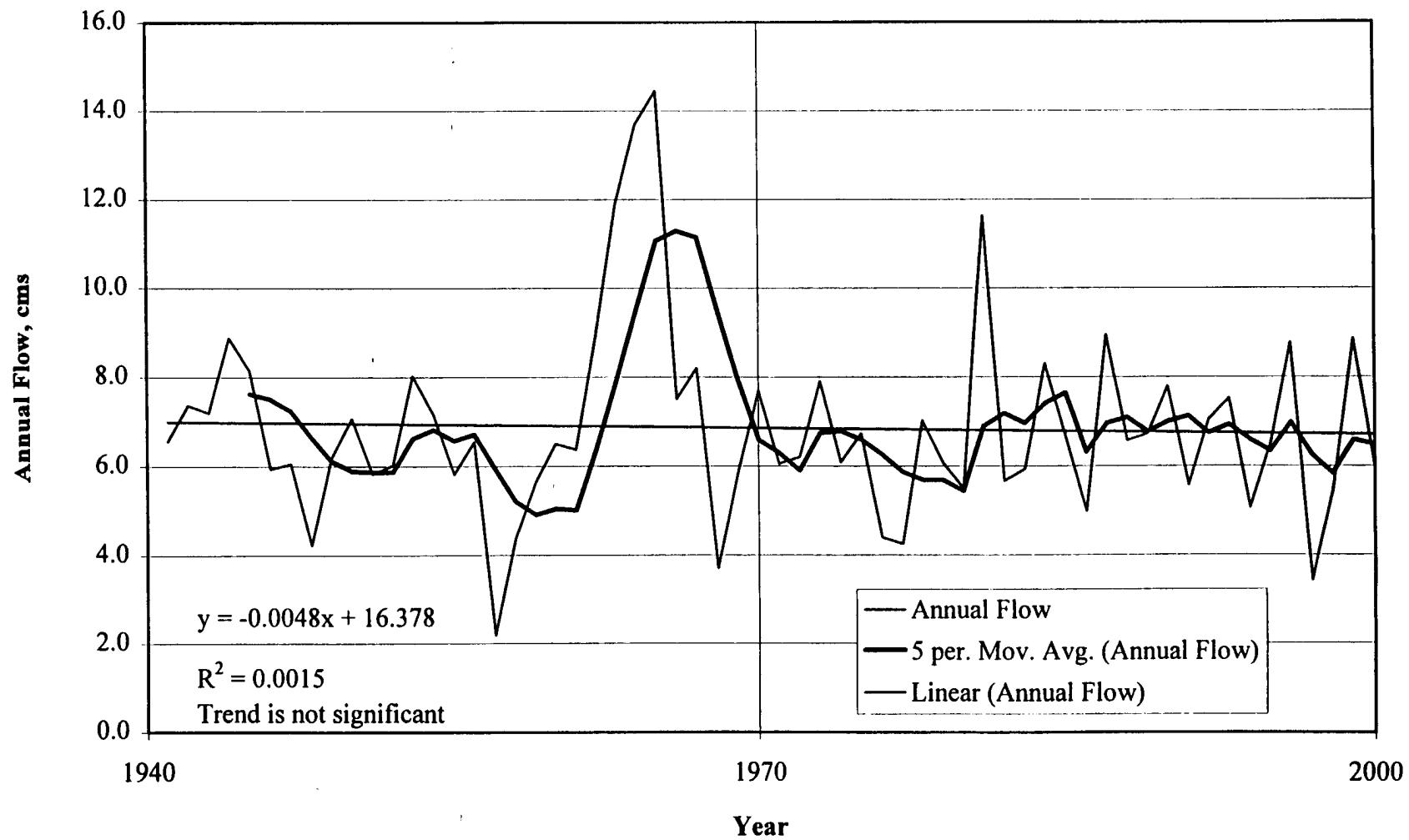
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1976	4.4	2.2	1.4	1.6	2.1	3.2	0.6	2.1	6.8	9.8	13.4	5.1	4.4
1977	2.3	1.1	0.6	0.5	0.9	1.7	2.7	8.1	7.4	8.8	9.4	7.5	4.3
1978	3.0	2.5	1.7	4.7	5.2	6.5	9.5	11.3	8.4	7.4	15.9	8.1	7.0
1979	3.8	1.3	1.3	2.1	3.7	5.9	5.0	8.0	6.5	13.7	15.0	6.6	6.1
1980	7.1	3.7	2.1	1.6	4.7	7.6	3.7	5.1	4.6	7.9	9.4	8.6	5.5
1981	4.8	3.1	2.2	14.6	16.3	14.2	11.8	8.8	6.3	10.1	22.2	25.2	11.6
1982	9.0	5.7	3.3	2.6	2.3	5.6	6.2	4.0	5.3	11.5	8.7	3.9	5.7
1983	2.3	1.5	1.0	1.3	2.7	3.5	3.6	6.7	8.2	11.0	10.8	18.6	5.9
1984	7.2	2.3	1.1	0.8	1.4	4.6	7.9	18.3	13.9	13.5	19.3	9.3	8.3
1985	4.1	3.1	2.7	2.6	3.7	6.6	5.4	5.9	8.5	8.6	10.4	18.2	6.7
1986	3.7	2.4	1.6	2.6	3.0	4.9	4.4	3.7	6.7	14.3	8.8	3.8	5.0
1987	2.1	1.8	1.1	8.4	10.3	7.8	8.4	8.6	8.5	19.0	22.0	9.3	8.9
1988	3.1	1.9	1.0	0.8	2.8	2.6	10.5	14.2	11.7	20.5	11.3	9.3	7.5
1989	2.8	3.3	2.5	2.4	3.4	3.4	7.4	8.3	5.6	8.4	19.6	13.6	6.7
1990	7.1	3.6	3.4	2.6	4.9	6.3	4.1	8.8	14.3	16.5	13.3	8.6	7.8
1991	3.4	2.9	2.8	3.2	6.4	4.1	4.8	4.8	7.8	7.2	13.5	6.1	5.6
1992	7.2	2.4	1.2	1.7	12.3	8.3	6.3	10.8	10.7	6.9	8.3	8.4	7.0
1993	5.5	4.3	4.6	5.7	4.0	6.7	9.9	5.6	9.9	12.9	14.0	7.2	7.5
1994	3.5	2.0	1.5	1.3	3.1	6.9	4.8	5.6	5.1	7.9	13.8	5.3	5.1
1995	3.6	1.9	1.3	1.4	3.2	7.0	9.3	9.6	7.8	6.6	15.3	11.0	6.5
1996	16.5	3.7	2.5	1.8	6.8	8.6	8.1	8.3	6.4	6.9	22.0	13.6	8.8
1997	3.7	2.4	1.2	0.9	3.6	4.4	2.4	1.9	4.4	4.7	8.0	3.4	3.4
1998	1.7	0.8	0.5	1.7	3.5	4.4	5.3	8.1	8.6	9.9	6.6	14.2	5.4
1999	3.6	1.3	0.9	1.1	4.4	8.9	9.1	11.4	6.1	11.1	18.4	29.9	8.9
2000	8.8	2.2	1.1	0.4	1.3	8.4	3.4	5.7	5.7	11.9	7.6	14.7	5.9
Mean	4.8	2.6	1.7	2.1	4.4	6.0	7.1	8.0	7.8	11.5	15.2	11.5	6.9
Max	16.5	5.7	4.6	14.6	16.3	15.8	26.6	22.9	16.6	35.5	56.2	30.5	14.5
Min	0.9	0.5	0.4	0.3	0.2	0.5	0.5	0.6	1.3	4.7	6.6	3.4	2.2
Std	2.7	1.0	0.8	2.2	3.1	3.0	3.9	4.0	2.8	5.4	7.7	6.7	2.2
Skew	1.7	0.6	1.1	3.9	1.7	1.0	2.1	1.4	0.9	2.0	2.9	1.2	1.3
CV	0.6	0.4	0.5	1.0	0.7	0.5	0.6	0.5	0.4	0.5	0.5	0.6	0.3

Note : Estimated flow in bold values.

GATUN RIVER AT CIENTO (CNT)
ANNUAL FLOW MASS CURVE



GATUN RIVER AT CIENTO (CNT)
ANNUAL FLOW TIME SERIES



BOQUERON RIVER AT PELUCA (PEL)
MONTHLY FLOW IN M³/S

Lat. 09-23 N Long. 79-34 W Elev. 79.86 mPLD D.A. 91 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1941	2.9	4.6	2.8	1.9	7.6	11.2	10.7	12.0	6.9	19.3	15.8	8.2	8.7
1942	3.0	2.5	3.0	5.9	5.4	13.7	10.2	11.4	10.9	12.2	8.4	9.8	8.0
1943	5.0	3.7	2.6	2.9	8.9	11.1	8.4	12.4	11.2	8.7	9.2	21.2	8.8
1944	3.9	4.6	2.0	4.4	16.0	8.8	11.3	15.3	10.2	19.2	22.6	38.4	13.1
1945	5.2	2.5	1.6	1.4	8.1	7.0	11.9	13.2	9.6	7.8	8.4	11.8	7.4
1946	3.8	1.8	1.2	1.5	4.8	6.6	12.6	6.4	6.9	3.6	8.7	22.7	6.7
1947	2.5	2.2	1.2	1.5	4.7	8.4	15.8	11.7	5.5	4.9	5.0	8.3	6.0
1948	2.9	1.7	1.3	1.3	3.6	5.2	10.2	7.6	6.7	5.9	10.3	6.3	5.3
1949	2.4	1.6	1.3	2.2	7.9	11.6	15.0	11.7	8.8	10.4	13.2	13.8	8.3
1950	3.1	3.6	1.9	4.3	9.1	7.5	21.2	9.5	5.6	5.6	10.9	19.2	8.5
1951	3.9	9.7	4.7	5.7	7.5	7.4	5.0	8.1	7.3	8.2	8.0	8.7	7.0
1952	3.7	2.2	1.4	2.7	4.4	6.4	11.7	13.9	9.0	10.9	5.9	16.3	7.4
1953	11.6	9.7	2.3	2.2	8.9	6.9	8.9	8.2	6.3	6.7	13.1	9.5	7.9
1954	3.4	2.6	1.8	3.9	8.2	10.5	13.3	15.1	7.4	6.1	19.2	21.6	9.4
1955	15.5	2.9	1.9	1.6	4.5	4.5	7.7	14.6	6.1	3.9	18.9	10.7	7.7
1956	13.5	4.7	4.9	4.1	14.4	9.0	12.9	6.7	7.3	5.1	16.8	13.6	9.4
1957	2.9	1.6	1.2	1.0	4.7	3.2	2.2	4.2	4.8	6.6	17.8	11.4	5.1
1958	8.8	3.4	2.8	1.8	4.6	4.2	10.4	10.3	11.1	6.1	9.0	10.6	6.9
1959	3.7	1.6	1.2	2.6	4.9	7.5	7.9	8.0	15.5	9.2	26.7	28.2	9.8
1960	15.0	2.3	2.0	10.5	8.7	8.8	9.1	10.1	5.6	6.6	9.6	26.3	9.6
1961	11.2	2.2	1.5	1.6	4.6	20.7	13.8	4.8	4.3	7.4	8.3	8.6	7.4
1962	5.6	1.8	1.2	1.4	5.7	5.4	10.1	11.2	6.9	7.8	9.9	6.9	6.2
1963	8.1	2.4	1.5	2.3	13.5	9.7	9.7	10.5	8.7	5.4	8.9	4.3	7.1
1964	2.1	1.2	1.1	1.4	6.7	13.0	10.4	7.9	5.6	4.1	9.3	3.9	5.6
1965	3.8	1.8	1.6	1.5	5.1	12.0	8.8	3.4	7.1	10.6	14.6	13.2	7.0
1966	5.7	2.9	2.3	7.9	10.1	5.7	5.2	6.6	8.4	6.7	26.0	14.5	8.5
1967	5.1	3.0	2.4	6.5	9.9	9.0	14.9	6.6	6.2	4.2	10.6	9.5	7.3
1968	2.2	2.0	3.1	2.8	6.8	6.5	8.9	8.3	8.2	8.4	7.3	6.2	5.9
1969	2.7	2.3	2.0	2.2	6.1	3.3	5.4	8.5	6.4	6.8	7.3	22.5	6.3
1970	19.7	2.9	2.0	8.3	14.3	7.7	8.6	9.7	7.4	6.7	14.2	29.1	10.9
1971	4.7	2.0	2.7	1.1	4.7	9.8	17.3	10.1	7.5	7.6	9.8	4.4	6.8
1972	27.8	6.2	2.0	5.0	12.4	8.4	6.7	6.8	10.9	9.4	7.6	8.0	9.3
1973	2.8	1.6	0.8	0.7	5.0	6.4	9.4	7.5	5.5	5.7	20.8	12.5	6.6
1974	5.4	2.0	1.5	1.3	3.1	6.7	8.9	7.4	5.0	6.9	16.1	6.2	5.9
1975	1.8	0.9	0.7	0.5	8.8	14.2	18.4	20.2	6.8	9.1	11.7	20.2	9.4

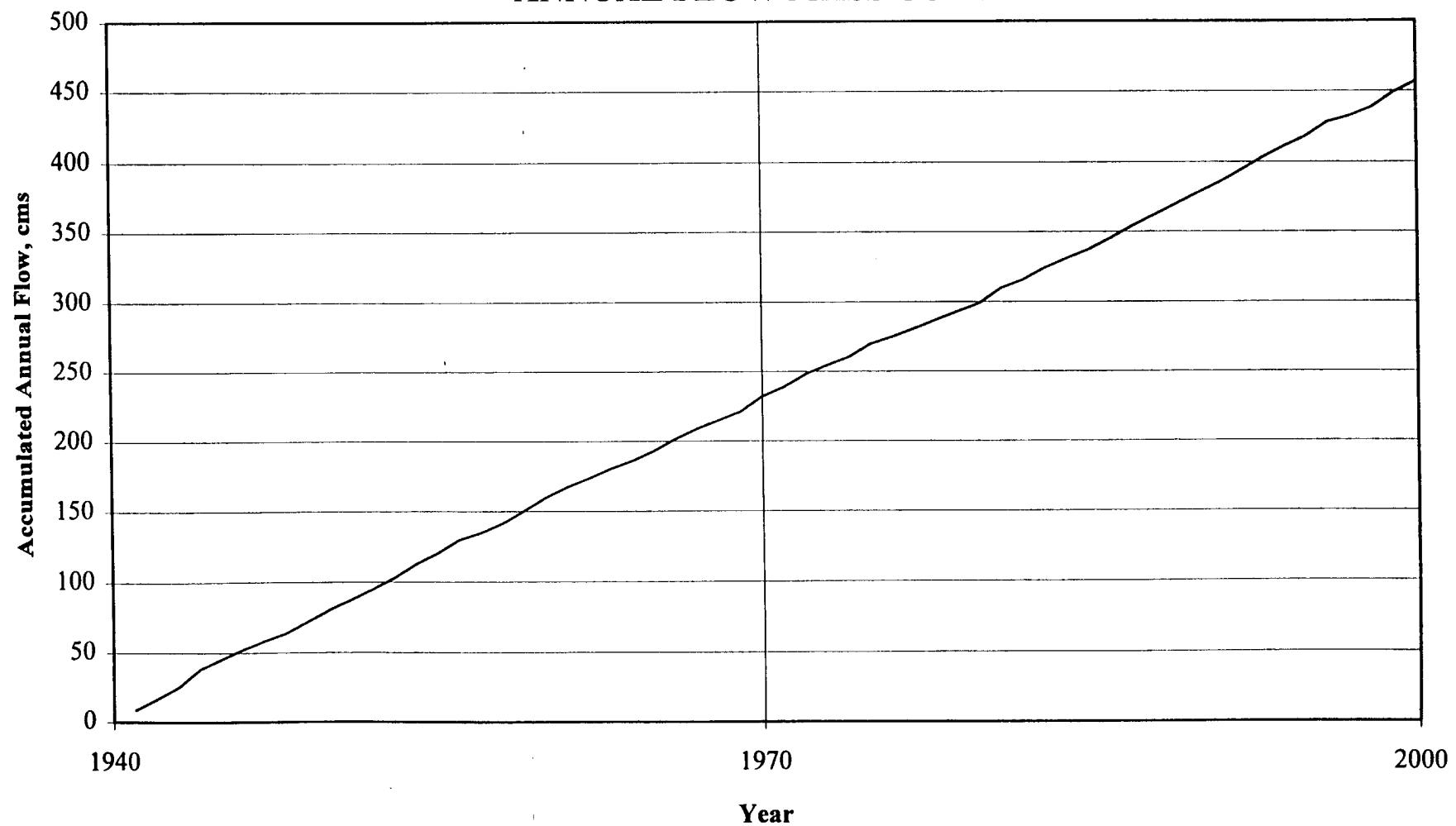
BOQUERON RIVER AT PELUCA (PEL)
MONTHLY FLOW IN M³/S

Lat. 09-23 N Long. 79-34 W Elev. 79.86 mPLD D.A. 91 km²

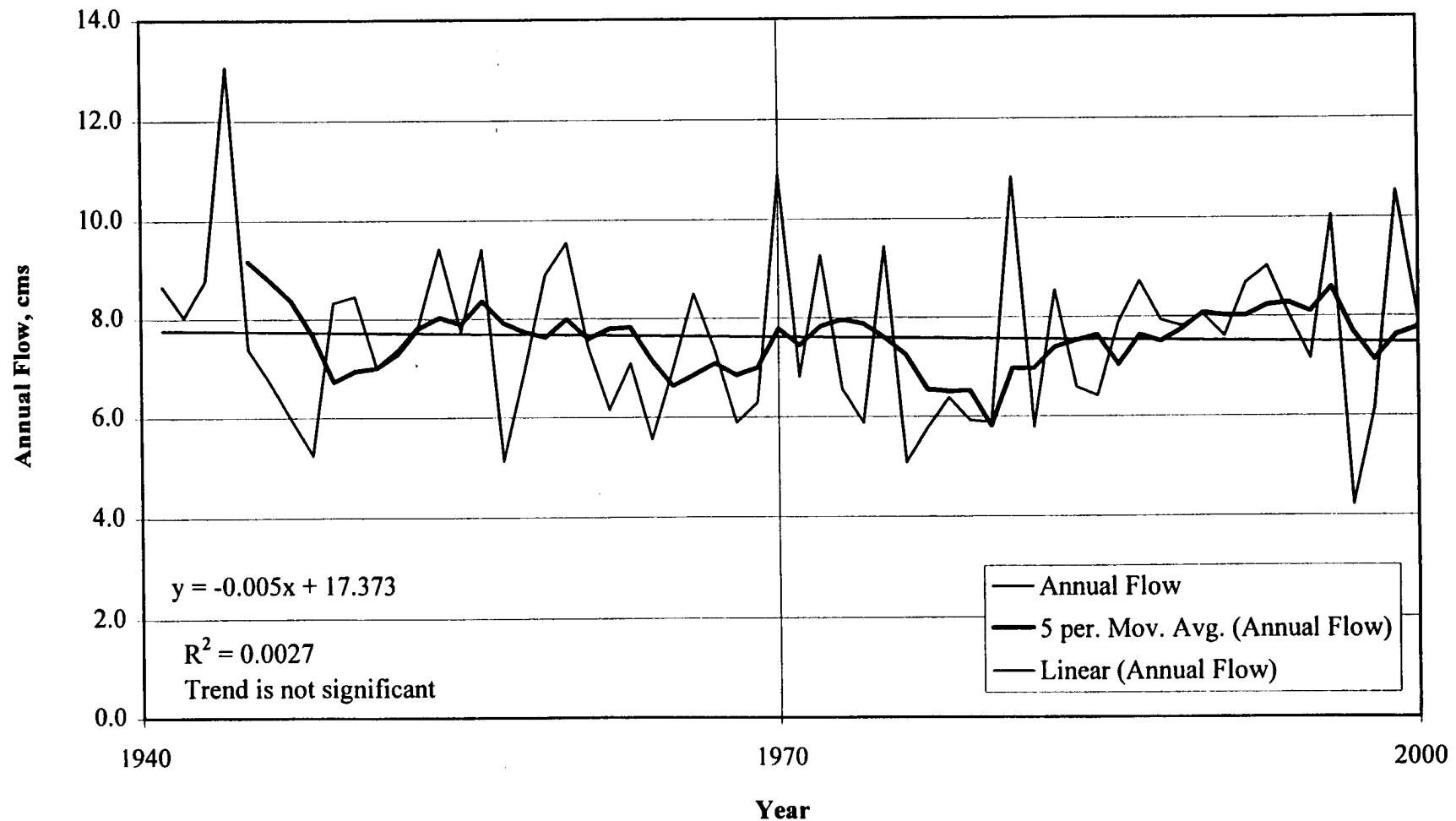
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1976	4.6	2.3	1.9	4.5	4.6	6.3	4.2	4.0	6.9	7.0	11.9	2.8	5.1
1977	2.9	1.6	1.1	1.3	2.4	3.2	5.7	7.5	8.9	13.8	10.3	10.6	5.8
1978	1.0	2.3	1.7	8.5	13.7	10.7	4.2	9.5	7.2	5.1	8.4	4.2	6.4
1979	2.4	1.2	0.8	5.3	4.7	7.3	5.2	5.6	4.6	5.8	9.3	18.9	5.9
1980	5.7	2.4	1.2	1.4	6.2	11.5	4.9	4.1	4.3	8.2	8.6	12.1	5.9
1981	6.2	3.4	3.2	30.0	13.1	8.7	13.6	7.8	4.8	6.4	11.9	20.8	10.8
1982	6.6	2.9	1.5	2.8	2.6	3.7	8.6	11.8	7.4	11.8	6.0	3.7	5.8
1983	2.9	1.5	0.9	2.7	9.1	7.9	8.7	8.3	7.9	9.4	10.0	33.2	8.5
1984	4.2	3.0	1.7	1.0	3.5	10.3	9.2	13.4	7.3	6.0	11.4	8.0	6.6
1985	1.9	2.1	2.0	1.7	5.5	9.7	6.6	5.6	10.2	8.3	8.4	14.9	6.4
1986	4.9	2.5	1.7	9.4	13.8	10.5	8.2	7.8	12.2	8.0	12.1	3.4	7.9
1987	1.4	1.5	0.7	12.3	19.3	9.6	7.6	9.2	11.4	9.3	16.6	5.8	8.7
1988	2.7	3.5	2.1	1.9	5.7	4.2	19.7	17.3	5.7	14.4	8.2	7.9	7.8
1989	3.2	4.2	1.7	1.1	7.7	9.7	13.7	13.1	5.7	11.4	14.0	8.2	7.8
1990	9.7	5.0	4.2	3.1	11.9	6.3	6.6	11.4	8.8	11.8	9.7	8.0	8.0
1991	3.4	2.5	2.0	1.8	15.5	5.6	5.1	6.7	15.1	5.8	21.0	6.7	7.6
1992	2.5	1.2	1.2	5.2	21.0	7.2	8.1	19.0	10.2	7.4	12.5	8.7	8.7
1993	5.5	2.6	4.0	9.2	7.3	11.0	9.5	7.7	11.0	14.4	13.0	13.1	9.0
1994	2.9	2.0	1.8	1.3	10.4	15.7	11.0	16.0	8.5	6.0	15.2	5.6	8.0
1995	3.9	1.7	1.2	1.8	4.3	11.9	13.2	5.2	6.4	4.8	13.7	17.7	7.2
1996	13.4	5.0	5.1	4.6	14.6	8.5	8.1	6.9	4.4	5.1	23.8	21.0	10.0
1997	3.1	3.8	1.6	1.1	8.3	8.1	3.6	4.9	5.1	5.2	3.8	1.9	4.2
1998	1.6	1.0	0.7	5.8	5.1	6.3	11.2	10.6	7.7	7.3	4.2	12.3	6.2
1999	5.6	2.9	3.2	6.3	9.0	8.2	15.1	11.5	6.9	7.6	12.5	37.5	10.5
2000	9.9	2.6	2.4	0.5	7.7	15.7	6.3	8.9	5.0	9.5	9.5	17.1	7.9
Mean	5.6	2.8	2.0	3.9	8.2	8.6	9.8	9.6	7.7	8.1	12.1	13.2	7.6
Max	27.8	9.7	5.1	30.0	21.0	20.7	21.2	20.2	15.5	19.3	26.7	38.4	13.1
Min	1.0	0.9	0.7	0.5	2.4	3.2	2.2	3.4	4.3	3.6	3.8	1.9	4.2
Std	4.9	1.7	1.0	4.4	4.2	3.3	4.0	3.7	2.5	3.3	5.2	8.5	1.7
Skew	2.5	2.5	1.4	3.9	1.1	1.0	0.7	0.7	1.1	1.6	1.0	1.2	0.6
CV	0.9	0.6	0.5	1.1	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.6	0.2

Note : Estimated flow in bold values.

BOQUERON RIVER AT PELUCA (PEL)
ANNUAL FLOW MASS CURVE



BOQUERON RIVER AT PELUCA (PEL)
ANNUAL FLOW TIME SERIES



PEQUENI RIVER AT CANDELARIA (CDL)
MONTHLY FLOW IN M³/S

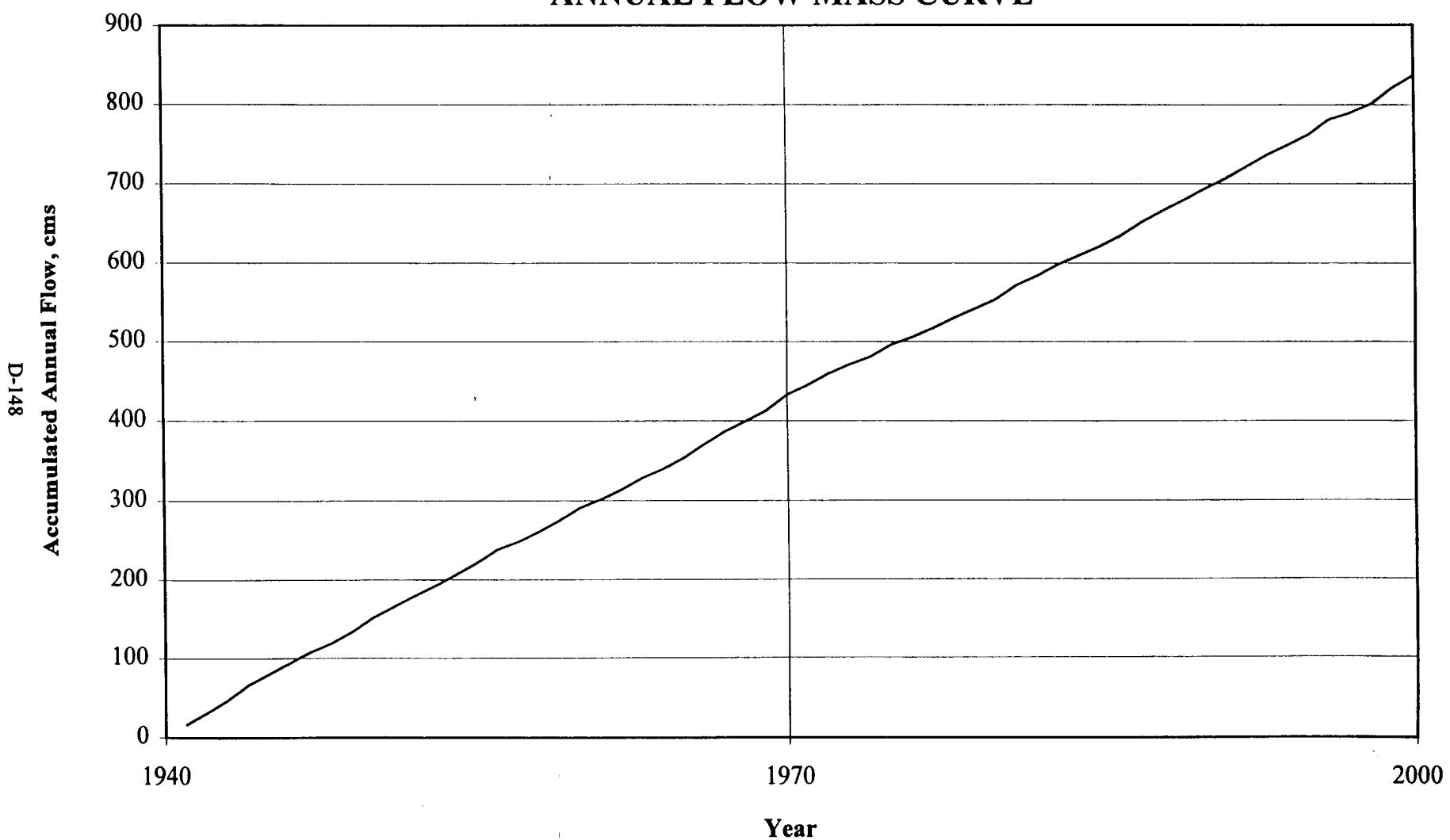
Lat. 09-23 N			Long. 79-44 W			Elev. 79.25 mPLD			D.A. 135 km ²				
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1941	6.3	11.1	9.2	4.3	12.1	23.8	15.5	21.3	14.4	35.7	27.2	18.0	16.6
1942	7.3	5.4	6.8	13.6	12.5	21.9	17.6	16.5	19.5	24.7	13.6	15.8	14.6
1943	12.7	7.8	4.9	7.2	14.9	22.5	15.8	20.3	17.6	16.1	15.5	37.4	16.1
1944	9.3	9.2	3.8	5.7	20.9	15.0	20.9	24.4	16.4	24.6	26.4	54.1	19.2
1945	11.2	5.7	3.8	3.4	13.3	16.8	17.6	20.4	15.8	14.0	13.2	28.9	13.7
1946	5.4	3.8	2.6	3.7	12.9	17.2	27.5	16.1	15.9	15.4	11.8	34.4	13.9
1947	9.6	5.6	3.1	5.0	8.4	18.3	22.4	21.3	17.2	14.9	14.8	20.4	13.4
1948	6.6	3.5	2.3	2.3	7.2	12.2	20.3	15.1	17.1	15.9	17.9	10.1	10.9
1949	5.6	3.2	2.0	3.3	10.8	22.6	24.3	21.1	19.5	21.4	21.5	25.0	15.0
1950	7.5	7.4	4.2	8.8	22.3	16.2	38.1	25.9	16.6	13.0	21.9	31.4	17.8
1951	9.0	21.2	10.9	8.8	15.2	15.3	13.9	14.6	15.5	14.4	12.6	18.5	14.2
1952	8.0	4.8	2.7	3.5	12.1	11.6	19.2	24.2	18.0	23.0	14.8	23.7	13.8
1953	17.5	10.4	4.6	5.3	19.3	11.8	13.3	13.1	11.8	12.5	19.3	14.4	12.8
1954	6.7	4.8	4.4	6.4	13.6	16.5	17.8	19.2	15.0	10.8	27.8	29.2	14.4
1955	24.2	6.3	5.2	4.2	9.1	7.4	19.6	26.6	13.3	9.3	35.2	16.8	14.8
1956	23.4	9.4	9.2	9.3	24.2	17.8	23.5	15.1	14.9	13.0	28.0	22.0	17.5
1957	6.3	4.5	3.5	3.0	7.1	8.5	7.3	9.6	9.0	14.3	27.1	19.6	10.0
1958	19.7	7.5	6.0	4.1	8.9	9.5	16.3	12.8	18.3	14.3	19.3	13.5	12.5
1959	6.1	4.1	3.1	4.7	10.6	14.3	13.8	14.2	24.6	17.0	34.2	42.1	15.7
1960	19.0	5.6	4.6	15.9	17.4	16.8	15.8	12.9	11.8	12.7	19.4	38.7	15.9
1961	6.6	4.4	3.3	5.2	9.9	5.2	14.3	16.1	11.7	18.3	14.9	12.1	10.2
1962	5.7	4.3	3.3	4.0	12.9	11.8	22.7	21.5	16.3	15.8	18.0	13.5	12.5
1963	17.1	6.8	4.3	8.3	23.4	18.9	19.7	21.8	18.0	11.5	16.7	8.7	14.6
1964	4.7	3.4	3.0	5.8	14.3	22.2	17.1	15.9	13.5	12.3	17.1	8.8	11.5
1965	7.5	4.8	3.7	3.0	10.5	21.8	15.9	11.9	18.0	17.6	24.5	23.1	13.5
1966	11.1	5.8	4.3	15.7	19.0	15.0	13.6	13.9	17.6	15.6	44.6	35.3	17.6
1967	11.4	6.1	5.5	13.8	23.1	20.2	22.9	15.4	15.0	12.0	23.4	21.6	15.9
1968	5.9	4.8	5.4	6.6	17.7	15.3	17.8	17.2	17.4	16.0	14.6	11.3	12.5
1969	6.7	5.0	4.2	7.2	14.5	8.4	13.6	17.5	15.0	10.1	13.4	41.7	13.1
1970	36.8	4.3	8.3	20.8	24.7	12.9	14.8	18.0	17.1	19.4	20.2	41.8	19.9
1971	13.3	6.8	4.9	4.7	10.4	18.3	27.4	15.0	11.6	13.0	14.1	9.0	12.4
1972	39.1	7.1	4.2	7.0	15.3	15.0	12.4	10.5	18.5	17.0	16.1	12.4	14.6
1973	6.0	3.6	1.6	1.3	10.3	11.4	17.7	17.5	12.0	12.0	26.5	17.6	11.5
1974	9.7	4.4	3.1	1.9	5.9	9.6	13.4	14.0	10.3	13.4	20.1	12.5	9.9
1975	4.6	3.1	2.5	1.8	14.0	17.8	20.9	29.3	18.7	17.8	22.3	28.5	15.1

PEQUENI RIVER AT CANDELARIA (CDL)
MONTHLY FLOW IN M³/S

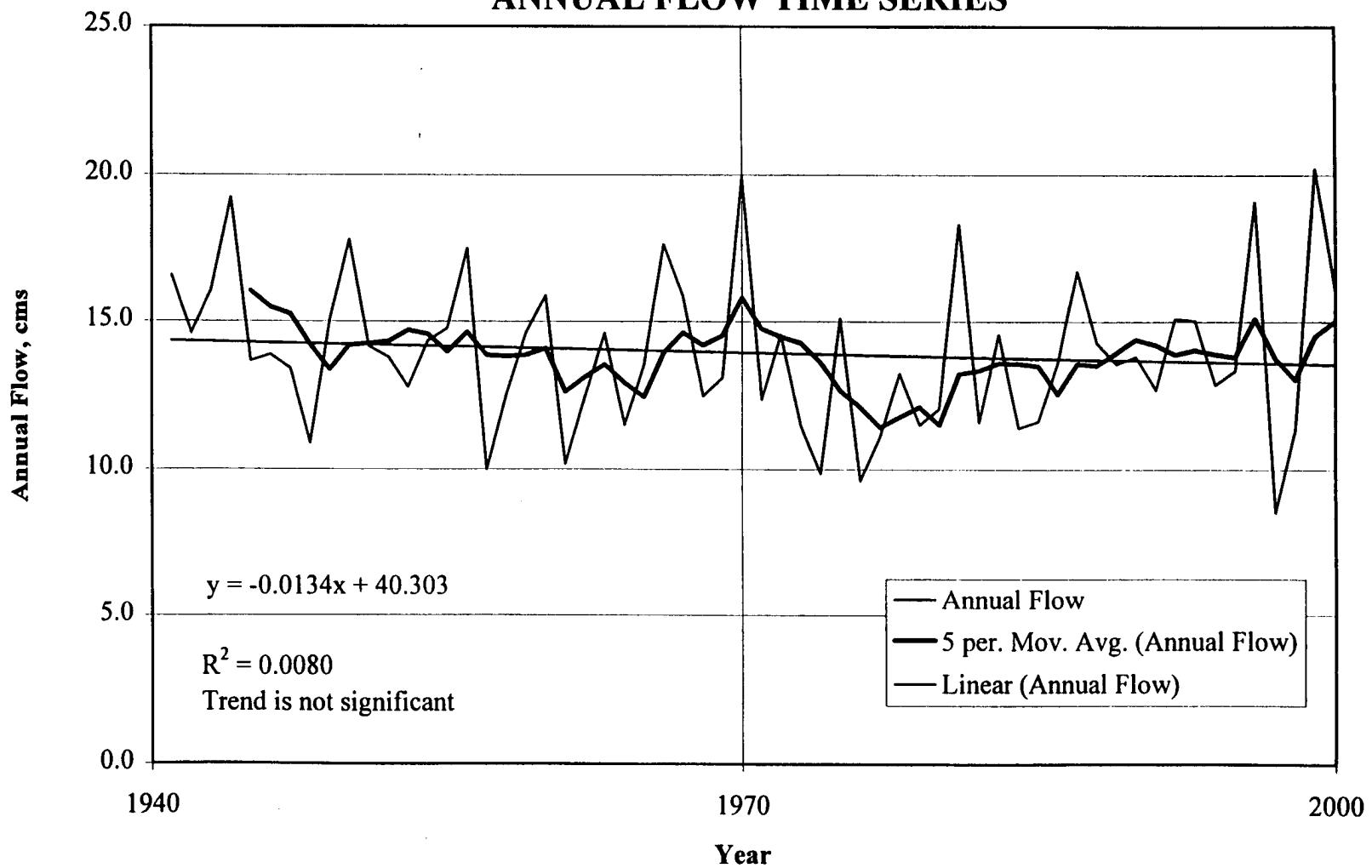
Lat. 09-23 N			Long. 79-44 W			Elev. 79.25 mPLD						D.A. 135 km ²		
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>	
1976	9.1	5.0	4.4	6.7	10.2	10.7	7.6	7.7	10.6	15.1	22.0	6.3	9.6	
1977	5.9	3.9	2.9	3.1	5.2	6.9	11.1	17.4	13.8	24.7	18.7	19.7	11.1	
1978	6.4	5.8	4.4	12.6	23.6	17.1	15.3	20.1	14.5	13.4	16.1	9.6	13.2	
1979	4.2	3.7	2.7	10.8	10.0	14.8	11.5	13.1	9.9	13.5	17.7	26.3	11.5	
1980	15.4	9.5	4.8	4.5	13.2	20.7	10.6	10.9	9.3	13.7	14.1	18.1	12.1	
1981	12.4	7.9	6.5	44.0	20.4	13.6	23.4	15.8	9.8	16.0	19.7	30.1	18.3	
1982	12.9	6.1	4.0	5.3	8.2	8.6	17.6	17.2	13.6	23.0	14.2	8.6	11.6	
1983	6.7	3.8	2.9	6.5	17.6	14.8	13.8	12.5	13.7	19.1	18.3	45.1	14.6	
1984	8.7	5.9	3.3	2.1	6.3	13.3	16.1	20.9	13.5	15.8	17.7	13.3	11.4	
1985	6.0	4.0	3.8	2.9	11.4	17.5	12.2	11.1	17.7	16.2	14.5	22.3	11.6	
1986	5.9	3.2	2.7	12.3	23.2	19.1	17.6	15.3	21.6	14.9	19.7	7.6	13.6	
1987	4.2	4.4	2.6	15.7	37.8	20.1	16.8	21.5	22.9	16.8	25.7	12.0	16.7	
1988	4.3	4.6	2.8	2.0	8.3	7.8	26.6	30.2	10.9	18.4	15.5	13.1	12.0	
1989	7.1	7.1	4.1	2.6	10.0	16.3	22.5	21.8	13.4	20.6	23.8	13.5	13.6	
1990	14.0	7.4	6.0	5.0	21.8	11.7	11.5	20.8	16.0	20.1	17.4	14.2	13.8	
1991	5.5	3.4	4.7	3.3	19.5	10.8	8.9	12.9	26.4	12.8	31.7	12.6	12.7	
1992	6.0	3.4	2.8	7.9	31.9	18.2	17.4	26.5	19.3	11.9	19.9	16.0	15.1	
1993	11.4	5.9	6.9	17.8	15.0	16.7	12.9	10.4	17.3	26.4	21.1	18.7	15.0	
1994	7.1	4.8	2.9	2.7	14.0	22.5	15.0	24.9	14.0	12.5	25.0	9.2	12.9	
1995	6.2	3.6	2.2	5.1	12.9	18.6	25.1	13.3	13.2	11.8	18.5	29.8	13.4	
1996	30.9	10.2	11.1	8.1	24.2	19.8	15.9	15.3	11.8	12.1	34.7	34.9	19.1	
1997	6.4	7.6	4.3	2.9	14.3	15.1	10.3	9.5	9.0	10.7	8.3	3.9	8.5	
1998	2.8	2.6	1.2	6.4	12.5	9.7	18.0	20.2	15.8	11.8	10.4	24.7	11.3	
1999	14.9	11.0	10.6	16.3	18.4	20.3	22.8	24.4	14.4	15.0	17.4	57.1	20.2	
2000	19.7	10.1	7.3	2.7	15.7	23.3	16.5	17.2	15.7	17.8	16.1	29.6	16.0	
Mean	10.7	6.0	4.5	7.3	15.1	15.5	17.4	17.5	15.4	16.0	20.1	21.8	13.9	
Max	39.1	21.2	11.1	44.0	37.8	23.8	38.1	30.2	26.4	35.7	44.6	57.1	20.2	
Min	2.8	2.6	1.2	1.3	5.2	5.2	7.3	7.7	9.0	9.3	8.3	3.9	8.5	
Std	7.6	3.0	2.2	6.6	6.4	4.7	5.5	5.2	3.7	4.7	6.8	12.1	2.6	
Skew	2.1	2.6	1.4	3.2	1.1	-0.2	1.0	0.4	0.5	1.7	1.2	1.0	0.4	
CV	0.7	0.5	0.5	0.9	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.6	0.2	

Note : Estimated flow in bold values.

PEQUENI RIVER AT CANDELARIA (CDL)
ANNUAL FLOW MASS CURVE



PEQUENI RIVER AT CANDELARIA (CDL)
ANNUAL FLOW TIME SERIES



CHAGRES RIVER AT CHICO (CHI)
MONTHLY FLOW IN M³/S

Lat. 09-16 N Long. 79-31 W Elev. 80.77 mPLD D.A. 414 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1941	15.0	22.1	17.5	11.9	22.2	37.3	28.1	37.5	40.4	75.6	66.9	43.4	34.8
1942	21.2	15.9	15.9	24.8	17.9	29.7	33.1	32.2	39.1	52.2	40.8	34.6	29.8
1943	28.8	20.5	15.8	17.0	33.6	35.4	27.3	31.9	31.6	45.4	41.1	76.6	33.8
1944	26.7	20.2	10.7	17.8	37.7	31.1	42.0	42.9	37.5	56.3	53.5	89.1	38.8
1945	29.4	17.8	11.2	11.4	25.3	28.9	30.7	40.2	36.1	34.8	31.4	65.6	30.2
1946	19.8	14.4	9.8	12.7	24.1	27.7	39.6	42.8	34.9	30.8	25.5	58.7	28.4
1947	19.9	13.6	8.6	9.5	13.9	22.9	32.2	33.7	28.5	32.1	35.6	39.3	24.2
1948	16.6	9.0	6.3	6.1	14.2	23.7	40.0	31.5	26.6	38.9	45.8	29.5	24.0
1949	15.0	9.4	6.9	7.2	23.5	39.1	51.0	48.3	38.3	45.0	61.3	53.5	33.2
1950	20.6	17.1	10.8	20.0	40.4	30.1	53.9	45.8	32.9	26.2	50.8	60.1	34.1
1951	19.7	43.2	23.2	19.4	25.8	30.5	33.2	24.8	28.7	24.8	28.9	28.2	27.5
1952	18.4	12.4	9.0	10.6	24.1	23.8	31.5	38.2	35.0	49.4	31.5	53.2	28.1
1953	41.4	27.0	14.0	12.5	37.6	27.6	32.6	31.4	28.1	33.6	39.6	34.3	30.0
1954	18.3	13.7	12.4	12.8	21.7	34.6	34.7	39.0	38.1	25.0	64.2	63.2	31.5
1955	64.8	18.3	12.7	10.2	15.3	17.5	28.3	48.7	31.4	28.5	77.0	44.0	33.1
1956	62.4	21.7	19.2	19.8	43.4	37.2	63.9	34.1	35.7	44.6	86.3	41.5	42.5
1957	17.5	11.6	8.2	6.9	13.1	12.7	11.9	13.9	18.2	30.6	49.0	33.0	18.9
1958	32.8	14.8	10.7	7.3	17.6	21.2	22.1	25.2	27.0	27.7	33.3	27.2	22.2
1959	12.7	8.6	6.7	9.7	17.9	17.5	16.4	18.4	32.1	33.2	54.9	89.5	26.5
1960	53.9	12.3	8.9	21.4	27.4	29.6	30.8	29.1	30.2	34.3	35.6	94.0	34.0
1961	18.4	10.1	8.2	11.9	18.5	43.1	26.8	33.5	31.5	37.7	45.0	28.4	26.1
1962	17.6	11.2	9.0	9.5	27.6	20.2	33.0	44.1	38.1	36.4	40.6	31.7	26.6
1963	37.8	19.3	12.9	27.3	39.0	41.3	47.7	45.7	49.4	37.7	43.9	25.3	35.6
1964	15.4	12.1	9.9	16.9	26.9	45.5	28.0	26.4	31.7	27.9	39.2	22.2	25.2
1965	18.2	14.1	11.9	10.7	23.7	33.1	23.2	30.7	40.3	50.8	50.1	51.4	29.9
1966	25.9	16.8	12.6	34.7	41.0	32.7	34.0	30.4	38.1	42.3	73.0	77.1	38.2
1967	33.9	19.9	13.4	31.2	43.0	49.5	44.8	33.9	35.3	30.5	36.1	37.1	34.1
1968	13.8	13.3	6.9	7.3	14.4	15.2	24.9	35.8	39.6	31.8	34.0	17.7	21.2
1969	11.9	13.8	10.7	20.4	28.1	21.1	22.7	30.6	30.7	28.9	38.7	86.7	28.7
1970	46.6	18.0	13.7	26.7	36.7	35.1	37.3	43.2	45.4	57.2	48.2	50.4	38.2
1971	43.6	20.4	13.6	9.1	22.0	47.8	46.4	38.7	33.2	31.1	39.3	21.6	30.6
1972	57.4	14.6	10.3	25.8	17.6	21.7	14.1	25.3	19.7	31.7	34.0	19.9	24.3
1973	11.9	8.4	5.6	5.1	16.3	28.4	28.3	32.3	28.3	36.1	60.4	46.0	25.6
1974	27.2	13.2	9.7	7.5	13.0	16.8	21.9	31.3	31.3	42.8	39.7	26.7	23.4
1975	12.1	7.5	5.1	5.2	20.3	28.8	44.8	52.0	34.7	46.6	58.0	58.0	31.1

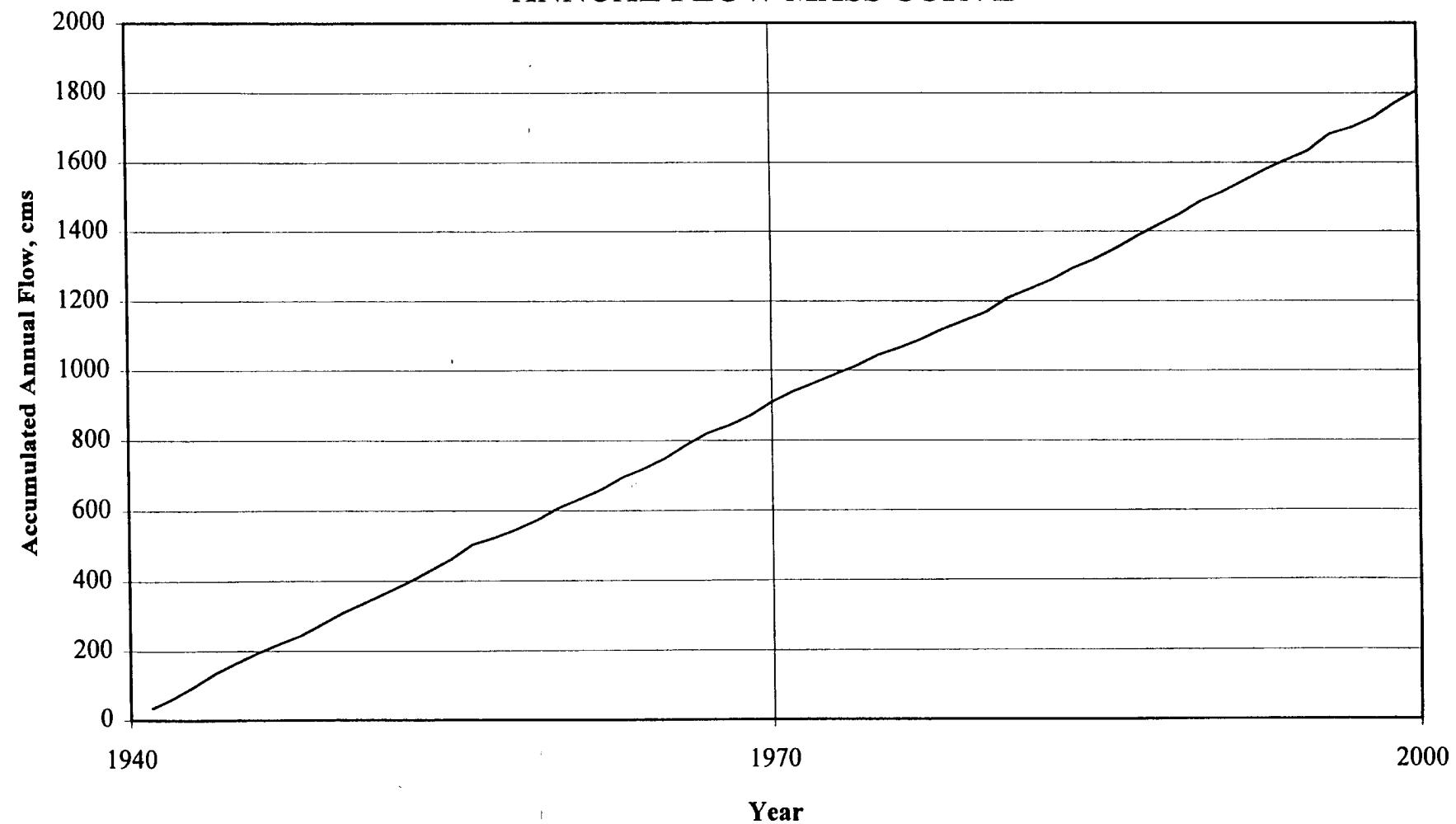
CHAGRES RIVER AT CHICO (CHI)
MONTHLY FLOW IN M³/S

Lat. 09-16 N Long. 79-31 W Elev. 80.77 mPLD D.A. 414 km²

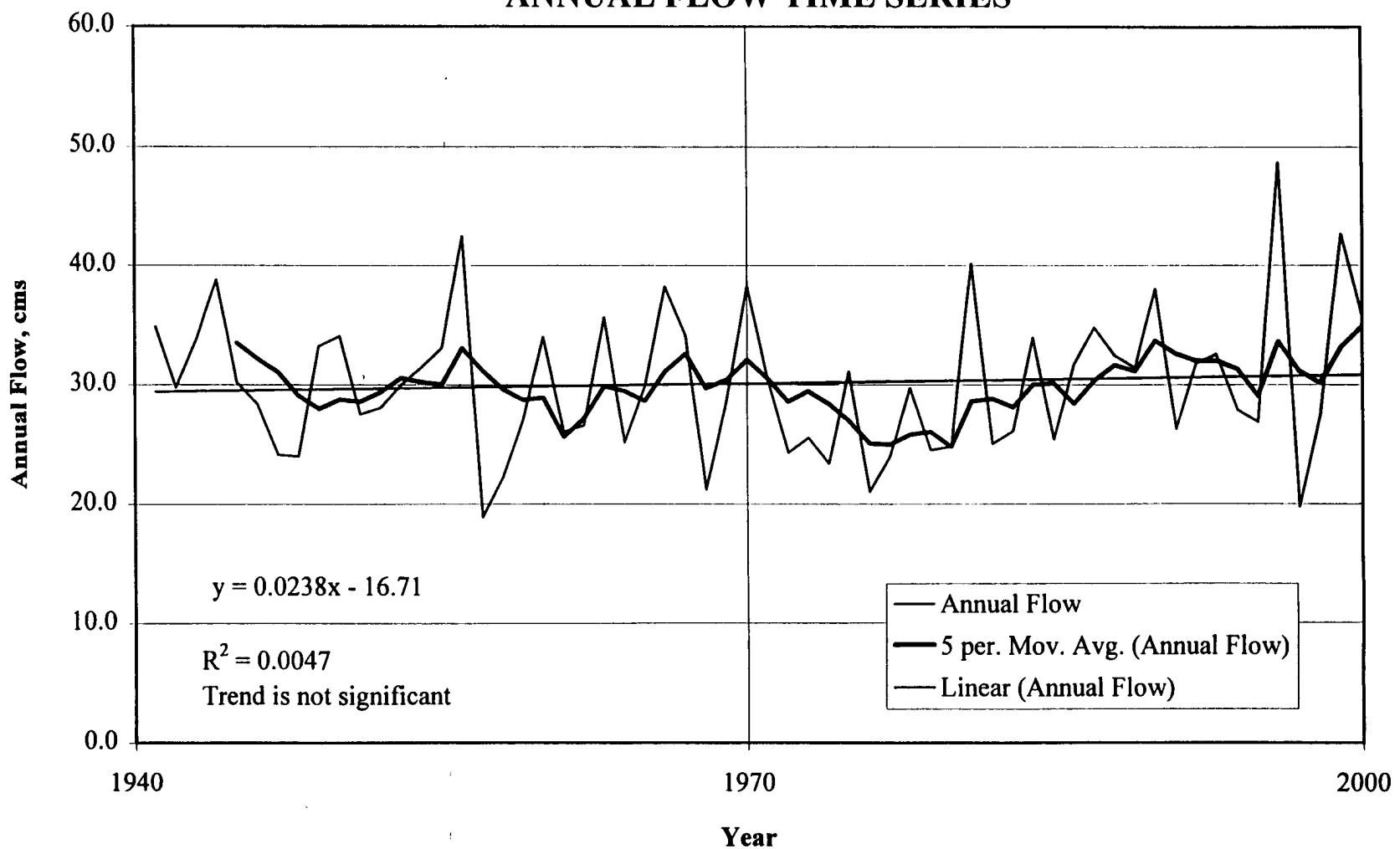
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1976	25.8	14.0	11.2	12.7	19.9	18.5	12.9	15.0	22.3	39.8	42.6	17.9	21.1
1977	15.8	11.0	8.2	8.2	14.7	17.1	22.5	28.8	26.7	56.3	45.2	33.1	24.0
1978	13.8	11.7	8.4	26.6	28.2	39.8	46.7	48.8	32.4	34.6	42.6	23.5	29.8
1979	12.1	8.9	6.9	17.8	17.1	23.7	27.3	36.7	31.7	28.5	42.8	41.1	24.6
1980	30.8	18.5	10.1	10.7	22.3	29.3	17.9	21.2	23.5	30.4	43.6	39.6	24.8
1981	23.2	17.7	14.4	100.6	46.3	37.2	40.0	38.9	27.9	33.1	40.7	61.6	40.1
1982	32.1	14.6	9.2	12.3	22.0	19.2	32.7	31.1	29.5	45.9	31.9	20.4	25.1
1983	15.3	8.5	6.2	5.4	36.6	22.2	19.6	21.6	27.7	34.3	40.0	76.5	26.2
1984	25.6	15.5	8.9	6.3	18.7	30.3	39.1	67.8	48.4	55.1	55.8	35.1	33.9
1985	19.1	12.9	12.9	9.4	19.5	34.2	26.2	21.2	37.8	30.6	29.8	51.9	25.5
1986	17.7	11.8	12.1	21.9	49.3	30.6	25.3	22.0	36.6	57.6	64.7	30.2	31.7
1987	13.3	12.6	8.2	28.5	55.9	36.0	36.4	44.2	51.5	39.7	60.6	29.8	34.7
1988	13.7	14.5	9.1	7.0	24.5	22.3	43.8	57.2	40.8	50.8	44.4	32.4	30.0
1989	20.6	19.9	12.1	8.6	17.2	31.9	34.4	37.8	32.3	58.5	67.4	36.2	31.4
1990	29.7	17.6	14.0	22.3	74.5	21.0	19.1	34.1	44.7	57.4	58.6	63.0	38.0
1991	19.6	12.7	15.4	11.8	31.4	21.9	22.8	23.0	33.3	33.4	57.3	33.6	26.4
1992	16.4	10.9	8.8	14.0	46.6	45.2	34.9	49.8	41.1	33.4	48.8	31.1	31.8
1993	25.3	12.2	17.0	26.8	36.3	47.8	36.1	25.8	37.7	58.1	40.7	26.5	32.5
1994	12.9	8.6	7.3	6.4	25.4	36.7	37.9	33.0	34.4	37.0	65.2	30.3	27.9
1995	15.4	8.3	4.8	6.1	19.1	36.4	43.6	41.3	28.7	31.0	38.5	50.0	26.9
1996	73.2	30.5	22.6	19.3	47.5	42.5	45.3	49.9	33.7	42.1	83.2	94.7	48.7
1997	29.0	16.8	9.1	7.8	31.3	26.8	16.2	13.5	18.4	24.6	21.9	21.6	19.8
1998	12.2	8.4	5.0	14.3	39.6	24.0	31.0	33.9	34.2	33.5	38.5	54.8	27.5
1999	30.8	24.0	14.8	17.5	25.7	36.2	45.3	53.8	44.3	40.5	52.1	126.7	42.6
2000	50.9	19.6	11.7	9.0	21.8	41.7	28.2	32.8	40.8	53.9	33.3	84.2	35.7
Mean	25.7	15.3	11.0	15.8	27.9	30.2	32.4	35.1	34.0	39.6	47.1	46.7	30.1
Max	73.2	43.2	23.2	100.6	74.5	49.5	63.9	67.8	51.5	75.6	86.3	126.7	48.7
Min	11.9	7.5	4.8	5.1	13.0	12.7	11.9	13.5	18.2	24.6	21.9	17.7	18.9
Std	14.5	6.1	4.0	13.4	12.3	9.1	10.8	10.9	7.1	11.1	14.1	23.7	6.0
Skew	1.6	2.0	1.0	4.5	1.3	0.2	0.3	0.4	0.1	0.9	0.8	1.1	0.6
CV	0.6	0.4	0.4	0.8	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.5	0.2

Note : Estimated flow in bold values.

CHAGRES RIVER AT CHICO (CHI)
ANNUAL FLOW MASS CURVE



CHAGRES RIVER AT CHICO (CHI)
ANNUAL FLOW TIME SERIES



TRINIDAD AT EL CHORRO (CHR)
MONTHLY FLOW IN M³/S

Lat. 08-59 N Long. 79-59 W Elev. 29.57 mPLD D.A. 173 km²

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1941	5.7	4.9	2.8	3.1	4.2	8.9	10.5	13.2	13.5	19.1	11.7	7.3	8.7
1942	5.1	4.1	2.4	2.2	4.1	7.6	12.9	11.9	19.1	16.5	18.3	6.7	9.2
1943	2.1	3.5	2.1	2.1	4.1	8.9	7.4	4.9	3.4	9.3	13.3	15.3	6.4
1944	7.9	2.5	1.5	3.0	5.9	8.0	7.1	7.8	14.0	13.8	9.9	11.8	7.8
1945	3.5	2.1	1.5	1.3	3.1	7.8	5.9	5.6	8.9	20.0	12.7	11.8	7.0
1946	4.2	1.7	1.4	1.3	2.0	4.8	6.4	5.2	7.6	10.7	4.2	7.9	4.8
1947	4.2	1.7	1.0	1.8	5.3	5.0	4.0	6.7	8.6	11.2	8.2	4.3	5.2
1948	3.5	1.9	1.0	0.6	1.6	2.0	6.3	7.6	6.7	7.3	16.6	5.7	5.1
1949	2.3	1.0	0.6	0.5	1.8	10.3	9.7	10.5	15.9	13.0	23.0	17.1	8.8
1950	4.4	2.6	1.4	0.7	6.3	9.8	10.1	13.5	8.6	13.3	19.2	15.8	8.8
1951	5.0	3.4	1.7	1.2	5.7	6.2	7.1	9.0	11.2	9.7	12.0	7.8	6.7
1952	3.2	2.0	1.0	0.8	2.0	5.4	4.9	5.8	9.9	14.1	9.7	18.8	6.5
1953	7.5	3.4	1.7	1.2	6.7	6.2	5.7	4.2	5.9	11.5	11.9	6.4	6.0
1954	3.0	1.7	1.0	0.9	8.2	7.1	17.8	14.4	14.3	13.9	21.5	9.7	9.5
1955	10.1	3.2	1.6	1.1	2.1	8.2	7.0	11.0	13.0	15.2	21.9	10.9	8.8
1956	9.2	3.1	2.0	1.5	5.0	8.4	10.3	6.4	11.7	19.3	11.6	5.9	7.9
1957	2.6	1.5	0.9	0.5	2.2	2.6	2.5	5.2	5.4	13.7	9.9	5.4	4.4
1958	3.5	3.3	1.6	1.0	3.6	4.4	6.5	9.4	9.2	10.5	8.0	4.5	5.5
1959	2.4	1.3	0.7	0.6	1.1	2.7	2.8	3.6	4.3	13.4	9.2	11.7	4.5
1960	5.4	2.2	2.3	2.8	6.9	7.4	7.3	7.5	6.6	10.7	15.0	25.6	8.3
1961	4.0	2.0	1.1	1.2	2.1	5.4	4.7	5.3	8.6	13.5	11.8	9.5	5.8
1962	3.3	1.8	1.0	0.9	1.4	2.2	3.0	7.8	6.7	9.1	9.5	7.1	4.5
1963	2.8	1.8	1.0	2.1	4.6	5.6	6.8	8.9	9.0	12.9	14.6	4.6	6.2
1964	2.3	1.2	0.8	0.9	3.4	11.4	11.3	11.5	13.9	15.0	17.7	5.2	7.9
1965	4.0	1.9	1.1	0.6	1.0	2.0	1.8	4.2	3.3	7.0	8.8	9.4	3.8
1966	3.2	1.5	1.0	1.1	6.7	9.2	7.4	9.1	7.7	14.2	19.2	14.6	7.9
1967	4.5	2.2	1.1	1.8	5.5	13.4	10.0	11.0	14.8	17.2	11.3	5.2	8.2
1968	2.4	1.7	1.1	1.0	2.7	8.0	5.9	8.4	8.9	15.2	14.7	6.9	6.4
1969	2.9	1.6	0.8	1.3	2.7	5.6	5.2	9.5	14.3	11.7	12.8	7.7	6.3
1970	6.2	2.7	2.3	2.4	7.5	4.9	5.6	12.4	10.4	15.8	12.4	26.4	9.1
1971	11.1	3.8	2.1	1.6	6.5	9.8	8.3	12.2	13.5	15.0	17.9	5.0	8.9
1972	3.3	2.2	1.3	3.7	3.1	5.8	2.5	3.6	8.6	8.7	7.6	3.6	4.5
1973	2.0	1.2	0.6	0.6	2.4	10.3	10.7	8.5	15.5	17.3	20.7	9.9	8.3
1974	4.3	2.6	1.9	1.1	2.2	4.9	6.0	6.9	8.2	24.0	13.4	6.9	6.9
1975	3.0	1.7	1.1	0.7	2.0	4.0	5.9	11.6	16.3	18.1	28.1	14.6	8.9

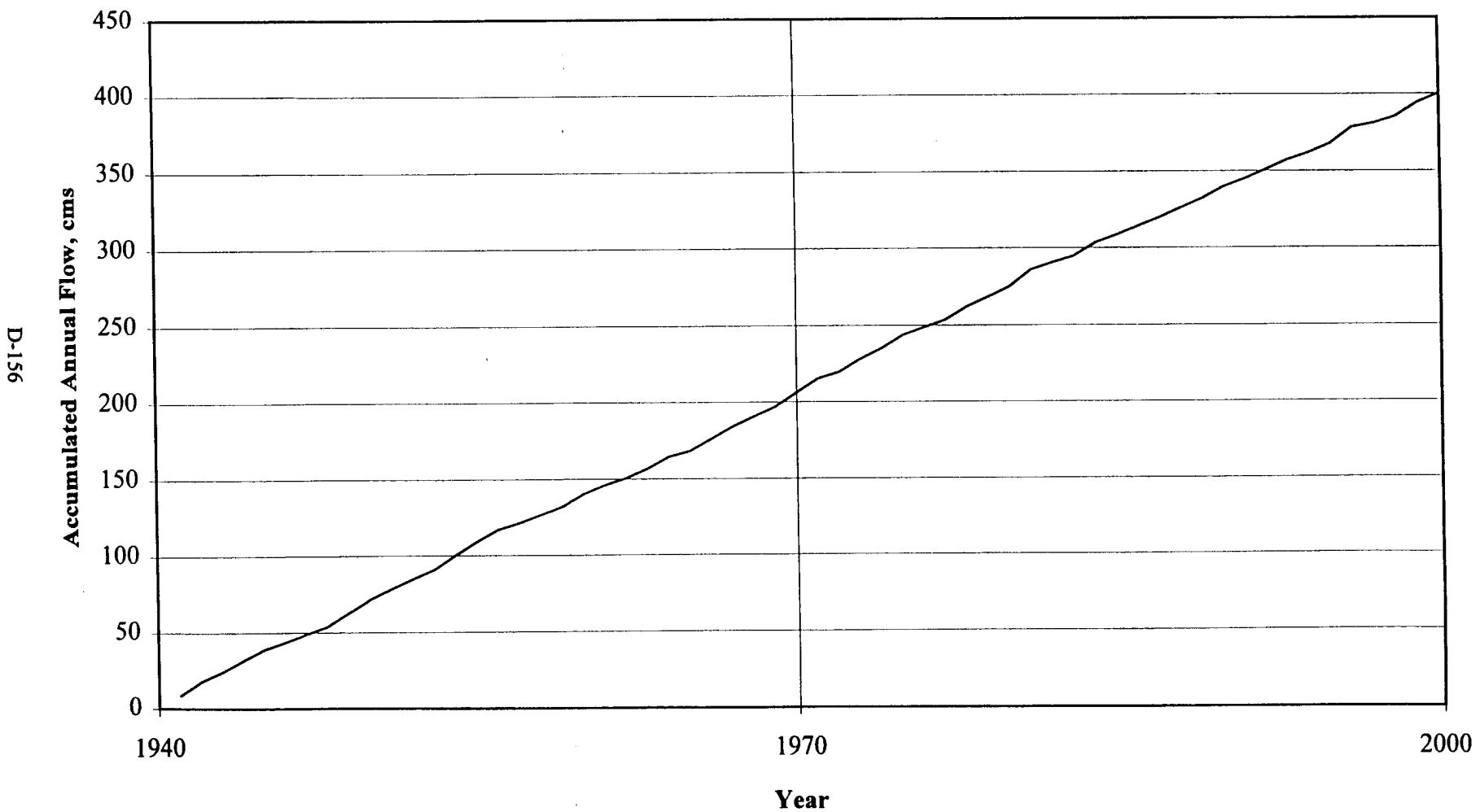
TRINIDAD AT EL CHORRO (CHR)
MONTHLY FLOW IN M³/S

Lat. 08-59 N Long. 79-59 W Elev. 29.57 mPLD D.A. 173 km²

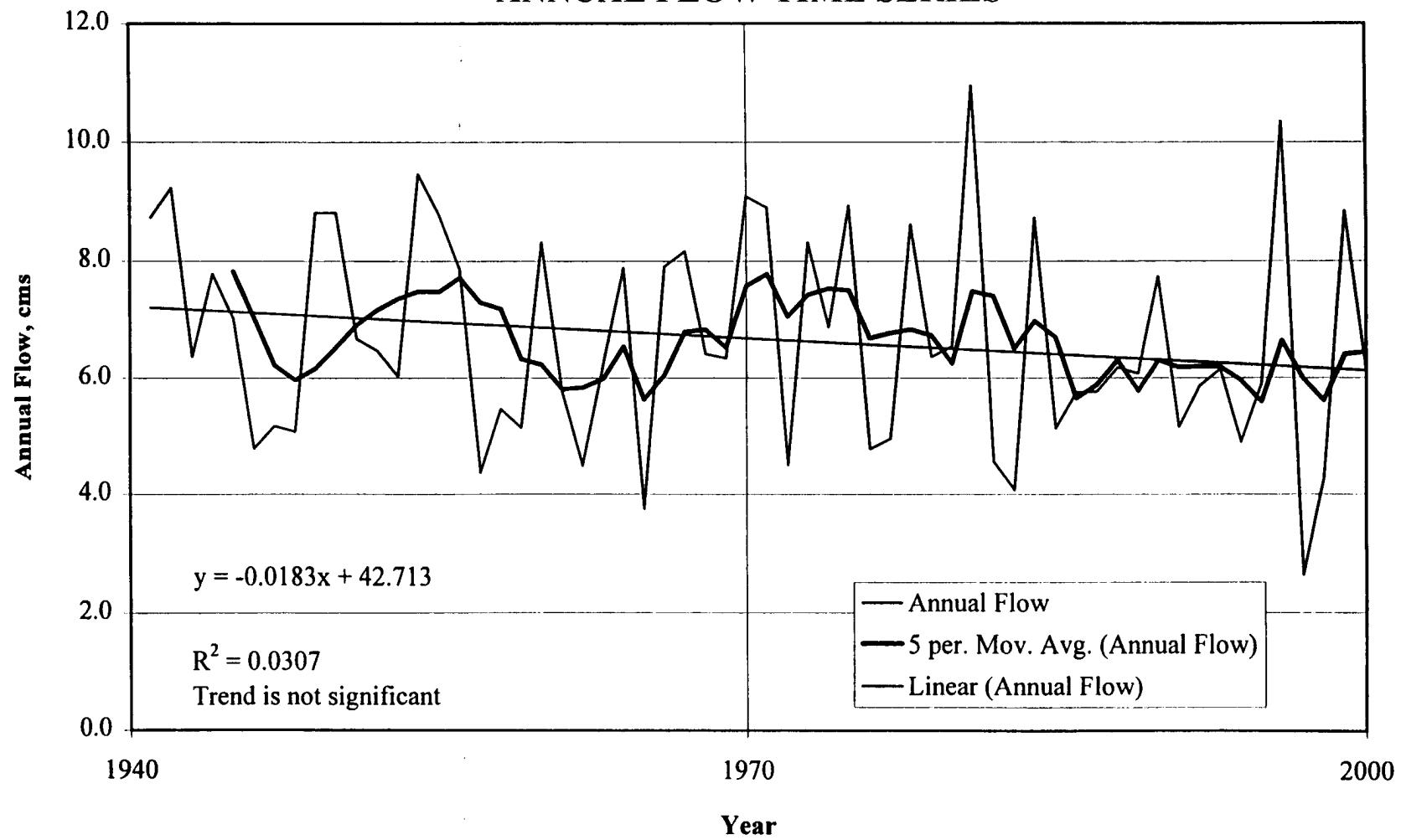
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1976	5.5	2.9	1.7	1.5	3.5	3.2	1.6	2.0	6.2	15.0	10.3	3.9	4.8
1977	2.4	1.5	0.9	0.7	2.0	3.0	2.9	6.7	7.7	14.8	10.9	5.9	5.0
1978	2.8	1.8	1.2	7.0	6.1	8.6	8.3	13.6	11.8	16.2	17.7	8.2	8.6
1979	3.6	2.1	1.4	2.4	3.7	6.4	6.9	9.9	11.2	13.5	8.2	7.0	6.4
1980	6.1	2.8	1.5	1.0	3.6	7.2	5.2	8.8	6.7	13.3	13.4	8.8	6.5
1981	5.8	4.0	3.2	7.3	12.4	13.9	12.9	13.5	11.3	15.3	18.1	13.7	11.0
1982	6.6	3.2	2.1	2.1	2.7	4.0	2.7	2.8	6.3	11.4	8.4	2.4	4.6
1983	1.7	1.1	0.7	0.5	2.3	3.3	2.1	2.9	10.4	8.2	7.7	8.0	4.1
1984	3.7	2.7	1.7	1.2	6.1	7.9	8.5	10.8	16.2	23.9	15.7	6.3	8.7
1985	3.5	2.1	1.4	1.0	2.6	4.5	3.3	5.0	12.8	9.5	8.4	7.4	5.1
1986	3.3	1.9	1.3	2.7	2.9	5.9	4.6	4.4	5.3	16.9	14.4	5.4	5.8
1987	2.8	2.0	1.2	1.3	3.5	3.6	4.4	7.6	11.9	16.8	8.2	5.9	5.8
1988	2.5	1.5	0.9	0.9	4.7	4.7	6.5	10.1	13.5	14.1	11.6	8.0	6.6
1989	4.5	2.5	1.6	0.9	2.4	3.6	6.5	10.4	9.5	10.1	10.5	10.4	6.1
1990	4.6	2.5	1.6	1.1	3.2	7.2	7.4	7.7	15.0	17.6	13.6	11.3	7.7
1991	3.6	2.0	2.0	1.0	3.9	4.7	4.3	4.6	7.4	10.6	10.2	7.5	5.2
1992	3.0	1.7	1.0	1.2	3.4	7.2	5.2	6.7	14.5	10.5	9.5	6.4	5.9
1993	3.6	2.1	1.4	1.6	3.1	6.3	5.1	4.6	11.2	9.5	16.1	9.2	6.2
1994	3.5	2.2	1.5	1.0	3.3	4.3	3.4	3.3	7.7	12.7	11.0	4.8	4.9
1995	2.6	1.4	0.9	1.0	5.0	7.9	7.5	9.4	8.9	10.6	9.8	5.8	5.9
1996	15.6	4.6	3.6	2.1	6.3	10.0	11.6	15.2	15.0	16.9	12.8	10.5	10.4
1997	3.5	2.2	1.4	1.1	1.3	2.5	1.6	1.4	2.6	6.0	6.0	2.1	2.6
1998	1.2	0.8	0.5	0.5	1.5	2.0	4.8	5.1	5.5	10.4	8.6	10.4	4.3
1999	5.4	2.6	1.7	1.8	6.1	10.6	5.8	11.7	15.1	11.4	18.0	15.9	8.8
2000	7.7	3.7	2.0	1.6	3.8	6.0	5.4	7.7	10.1	9.0	9.6	6.6	6.1
Mean	4.4	2.3	1.4	1.6	3.9	6.4	6.4	8.0	10.2	13.4	13.0	9.0	6.7
Max	15.6	4.9	3.6	7.3	12.4	13.9	17.8	15.2	19.1	24.0	28.1	26.4	11.0
Min	1.2	0.8	0.5	0.5	1.0	2.0	1.6	1.4	2.6	6.0	4.2	2.1	2.6
Std	2.5	0.9	0.6	1.3	2.1	2.8	3.2	3.4	3.8	3.8	4.7	4.9	1.8
Skew	2.2	0.9	1.2	3.1	1.3	0.5	1.0	0.1	0.1	0.6	0.9	1.7	0.2
CV	0.6	0.4	0.4	0.8	0.5	0.4	0.5	0.4	0.4	0.3	0.4	0.5	0.3

Note : Estimated flow in bold values.

TRINIDAD AT EL CHORRO (CHR)
ANNUAL FLOW MASS CURVE



TRINIDAD AT EL CHORRO (CHR)
ANNUAL FLOW TIME SERIES



CIRI GRANGE AT LOS CANONES (CAN)
MONTHLY FLOW IN M³/S

Lat. 08-57 N		Long. 80-04 W		Elev. 97.54 mPLD		D.A. 186 km ²								
<u>Year</u>		<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1941	11.6	9.7	5.1	3.8	7.9	14.5	13.1	16.1	16.7	23.9	14.6	11.0	12.3	
1942	7.2	7.2	3.6	1.7	4.5	12.1	16.8	15.4	24.3	22.6	18.3	10.1	12.0	
1943	3.3	5.1	3.4	1.8	5.3	10.2	8.4	8.5	10.3	14.8	17.1	18.0	8.8	
1944	9.4	3.7	2.3	3.3	5.9	8.8	9.9	10.9	18.0	19.9	14.6	13.3	10.0	
1945	5.7	2.9	1.5	1.2	4.7	16.5	11.8	9.1	11.3	24.1	17.7	14.1	10.0	
1946	5.1	2.2	1.8	3.2	5.7	9.2	12.8	11.1	10.3	13.7	6.3	9.8	7.6	
1947	7.4	2.6	1.7	2.6	7.5	6.2	6.7	10.0	12.8	17.3	13.5	10.8	8.2	
1948	4.3	1.6	1.2	0.9	1.9	2.7	10.5	12.3	11.7	10.8	22.1	5.9	7.2	
1949	2.4	1.4	0.9	0.8	2.6	15.0	10.4	13.1	18.7	17.7	31.2	24.5	11.6	
1950	4.0	2.2	1.3	0.9	7.0	13.2	13.7	20.3	13.3	18.3	23.9	24.0	11.8	
1951	7.3	4.0	2.2	1.4	7.2	8.9	8.2	9.0	15.5	13.1	19.9	11.3	9.0	
1952	4.8	2.2	1.2	1.0	4.0	10.6	8.1	8.6	14.8	21.5	13.3	19.0	9.1	
1953	14.1	5.3	2.7	1.9	8.6	7.7	7.4	6.1	7.6	22.5	22.6	12.1	9.9	
1954	6.0	2.7	1.7	1.4	6.8	7.2	17.5	13.1	18.0	15.2	29.3	15.2	11.2	
1955	16.4	4.9	2.4	1.9	3.8	15.3	10.8	18.1	22.2	19.1	29.6	16.8	13.4	
1956	17.0	5.1	2.9	2.7	10.5	15.4	14.5	10.7	17.4	26.4	18.5	10.5	12.6	
1957	4.1	2.0	1.3	0.9	4.2	4.2	4.1	8.3	9.1	21.4	13.9	11.1	7.1	
1958	6.8	5.2	2.7	1.9	6.2	7.5	10.5	14.2	13.8	18.2	14.7	7.6	9.1	
1959	3.6	2.0	1.4	1.2	1.9	2.9	3.0	1.8	7.8	15.6	13.8	17.4	6.0	
1960	12.0	4.6	3.9	2.5	9.0	7.8	8.4	11.6	8.4	13.0	19.1	32.1	11.0	
1961	6.6	2.8	1.4	1.1	1.0	6.2	6.0	9.0	14.2	17.5	11.5	11.2	7.4	
1962	6.2	1.9	1.5	1.5	3.1	4.0	5.8	12.9	10.8	11.7	14.4	9.7	7.0	
1963	5.0	2.1	2.0	2.5	7.5	8.1	9.2	10.0	10.8	14.4	17.8	12.0	8.4	
1964	5.4	2.0	0.6	0.0	3.5	14.5	13.3	12.6	15.1	15.8	21.9	10.9	9.6	
1965	6.4	2.5	1.3	0.7	2.2	6.9	5.1	5.8	7.9	10.7	8.7	13.5	6.0	
1966	4.2	1.7	2.1	1.9	9.1	13.6	9.5	12.0	11.6	18.1	24.6	22.5	10.9	
1967	8.1	3.2	2.2	1.9	9.4	20.0	13.5	18.3	18.2	24.9	20.5	10.4	12.5	
1968	5.7	3.2	1.5	0.9	3.5	10.9	7.9	13.0	13.2	16.7	17.2	10.5	8.7	
1969	5.5	2.8	0.5	1.6	3.5	6.0	5.4	12.5	17.2	13.0	13.0	14.1	7.9	
1970	10.0	3.6	3.9	3.6	12.7	11.8	9.2	15.9	12.4	22.0	17.5	38.5	13.4	
1971	21.8	6.3	4.2	2.4	9.4	18.9	12.7	17.4	15.5	20.3	18.1	6.3	12.8	
1972	4.1	3.8	1.9	5.6	5.5	11.4	6.9	7.0	12.0	12.0	8.4	7.0	7.1	
1973	1.5	1.8	0.4	0.7	3.2	12.4	13.5	10.7	18.0	20.7	20.2	12.6	9.6	
1974	4.4	2.7	2.7	1.5	4.4	8.3	8.9	10.7	12.3	28.6	13.0	7.0	8.7	
1975	3.5	2.7	1.8	1.6	4.5	6.4	9.8	18.1	19.7	20.7	32.4	14.6	11.3	

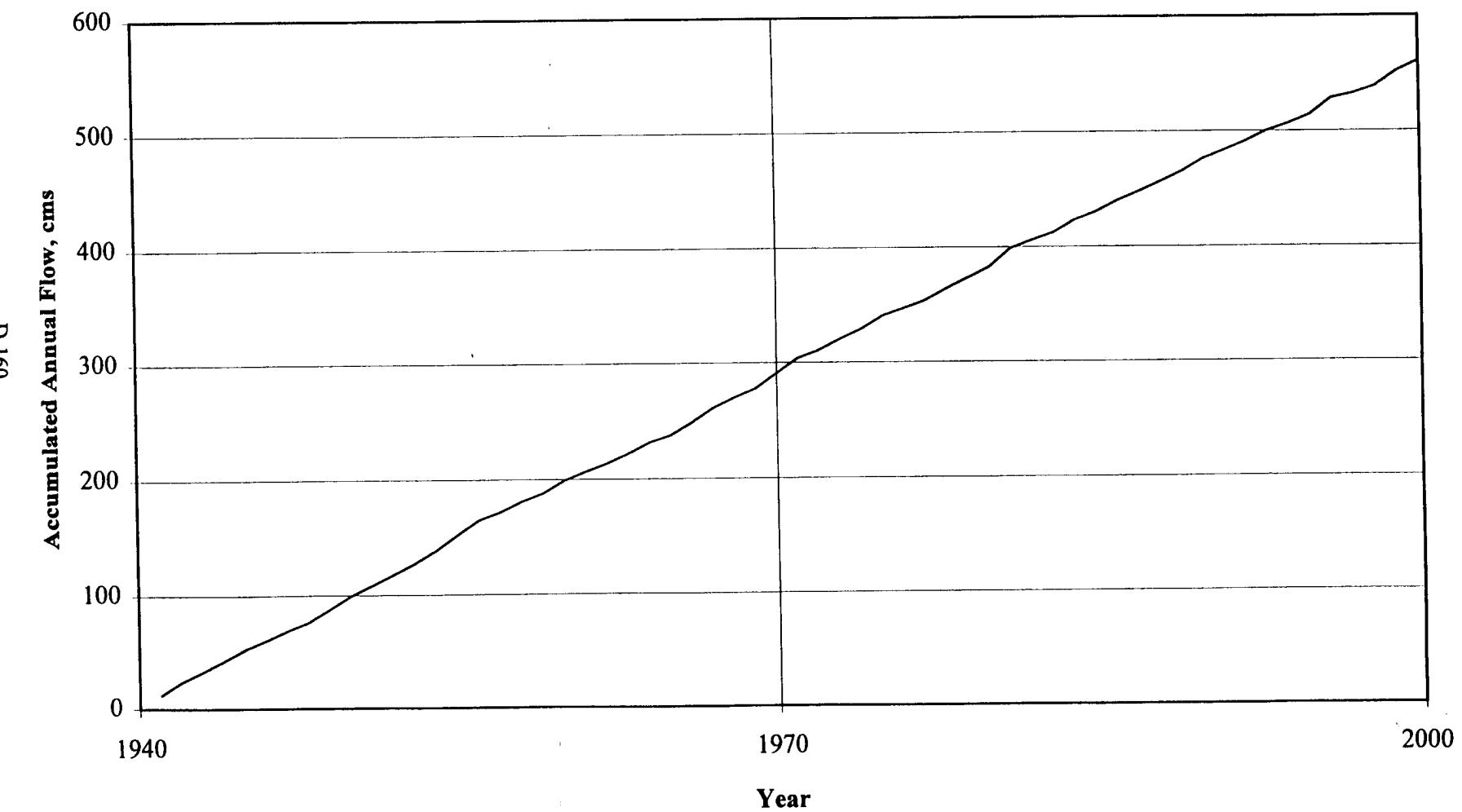
CIRI GRANGE AT LOS CANONES (CAN)
MONTHLY FLOW IN M³/S

Lat. 08-57 N Long. 80-04 W Elev. 97.54 mPLD D.A. 186 km²

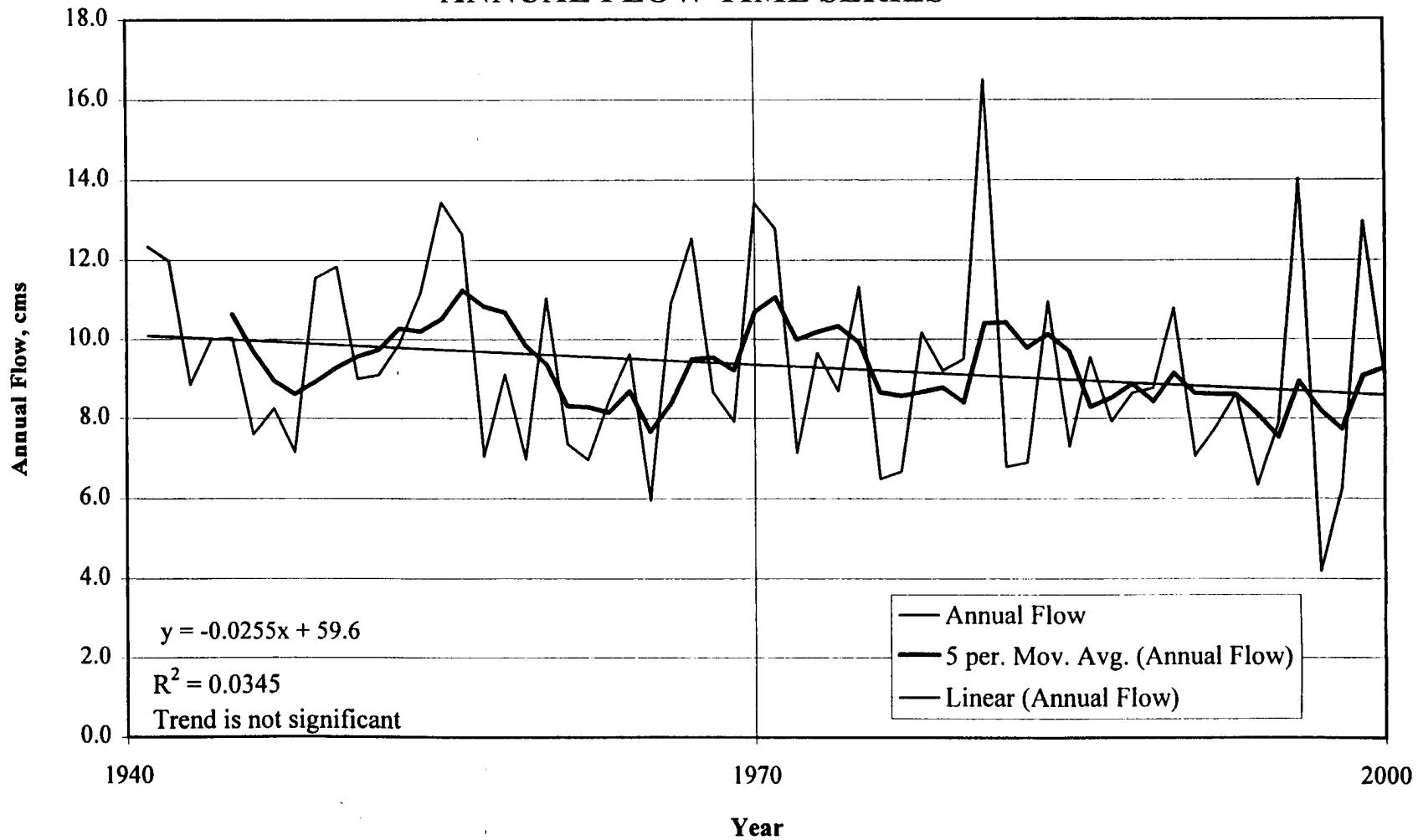
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1976	8.1	4.2	2.2	2.0	6.8	7.3	4.2	3.2	7.9	18.9	9.2	4.0	6.5
1977	3.9	2.3	1.6	0.9	4.1	4.5	5.3	7.8	9.9	17.2	15.0	7.6	6.7
1978	3.5	1.3	1.3	8.5	8.9	14.0	6.8	16.0	16.7	19.2	16.3	9.4	10.2
1979	5.1	3.9	3.5	4.0	6.5	10.7	10.6	15.9	19.4	19.0	6.3	5.5	9.2
1980	10.7	3.7	2.0	1.4	5.4	10.9	8.0	19.2	9.0	15.4	15.6	12.6	9.5
1981	11.4	9.2	7.4	13.1	21.2	22.8	20.7	14.8	14.6	21.9	21.0	19.8	16.5
1982	7.9	3.5	2.3	2.6	4.6	7.5	6.3	4.7	8.7	17.1	12.6	3.8	6.8
1983	2.4	1.5	0.9	0.5	4.4	5.7	4.1	5.3	17.2	12.7	12.4	15.7	6.9
1984	9.6	5.2	2.3	1.4	6.4	12.2	10.9	17.1	16.7	17.4	20.8	11.4	11.0
1985	3.6	2.2	1.3	0.9	2.5	7.1	3.1	12.6	20.8	14.9	12.0	6.6	7.3
1986	4.0	2.1	1.4	4.1	5.9	12.7	8.4	6.7	9.8	25.8	24.2	9.3	9.5
1987	2.8	1.9	1.1	1.7	5.3	5.4	7.7	12.8	14.0	24.3	10.1	8.0	7.9
1988	2.8	1.7	0.9	0.9	4.1	8.0	8.6	15.1	17.0	21.3	16.5	9.5	8.9
1989	6.7	3.5	2.3	1.2	4.8	5.5	10.1	14.7	13.7	16.0	16.2	10.5	8.8
1990	5.8	3.0	2.2	1.3	5.2	7.7	10.1	10.5	19.4	29.2	18.8	16.2	10.8
1991	3.8	1.9	2.4	1.2	4.6	6.1	4.7	5.6	11.0	18.0	14.2	11.3	7.1
1992	3.3	1.7	1.2	1.6	6.5	11.6	8.3	13.2	15.1	12.3	11.3	7.3	7.8
1993	4.4	2.9	2.1	2.0	4.9	10.3	7.5	6.3	13.8	14.6	22.0	12.6	8.6
1994	4.6	2.2	1.6	1.4	5.0	8.0	5.8	4.5	9.7	13.9	14.3	5.0	6.3
1995	2.9	1.6	1.0	1.3	7.8	12.8	10.3	11.2	11.6	13.0	12.6	8.6	7.9
1996	22.6	6.9	5.1	2.7	7.9	12.0	18.0	22.3	17.5	23.0	15.5	14.7	14.0
1997	5.6	3.3	1.7	1.2	2.0	3.6	2.9	2.4	6.0	7.9	9.6	4.1	4.2
1998	2.3	1.6	0.7	0.9	2.6	4.7	8.4	6.8	9.6	15.3	8.8	13.3	6.3
1999	6.8	3.5	2.6	2.9	9.2	13.2	8.8	20.9	27.3	13.2	20.4	26.7	13.0
2000	11.6	4.2	2.2	1.8	7.2	16.4	9.6	9.9	12.4	9.5	12.5	10.1	9.0
Mean	6.8	3.3	2.1	2.1	5.9	9.9	9.2	11.6	14.0	17.8	16.7	12.7	9.3
Max	22.6	9.7	7.4	13.1	21.2	22.8	20.7	22.3	27.3	29.2	32.4	38.5	16.5
Min	1.5	1.3	0.4	0.0	1.0	2.7	2.9	1.8	6.0	7.9	6.3	3.8	4.2
Std	4.4	1.8	1.2	2.0	3.1	4.4	3.8	4.8	4.4	4.8	5.8	6.6	2.4
Skew	1.8	1.7	1.8	3.7	2.1	0.6	0.7	0.1	0.6	0.3	0.7	1.7	0.5
CV	0.7	0.5	0.6	0.9	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.3

Note : Estimated flow in bold values.

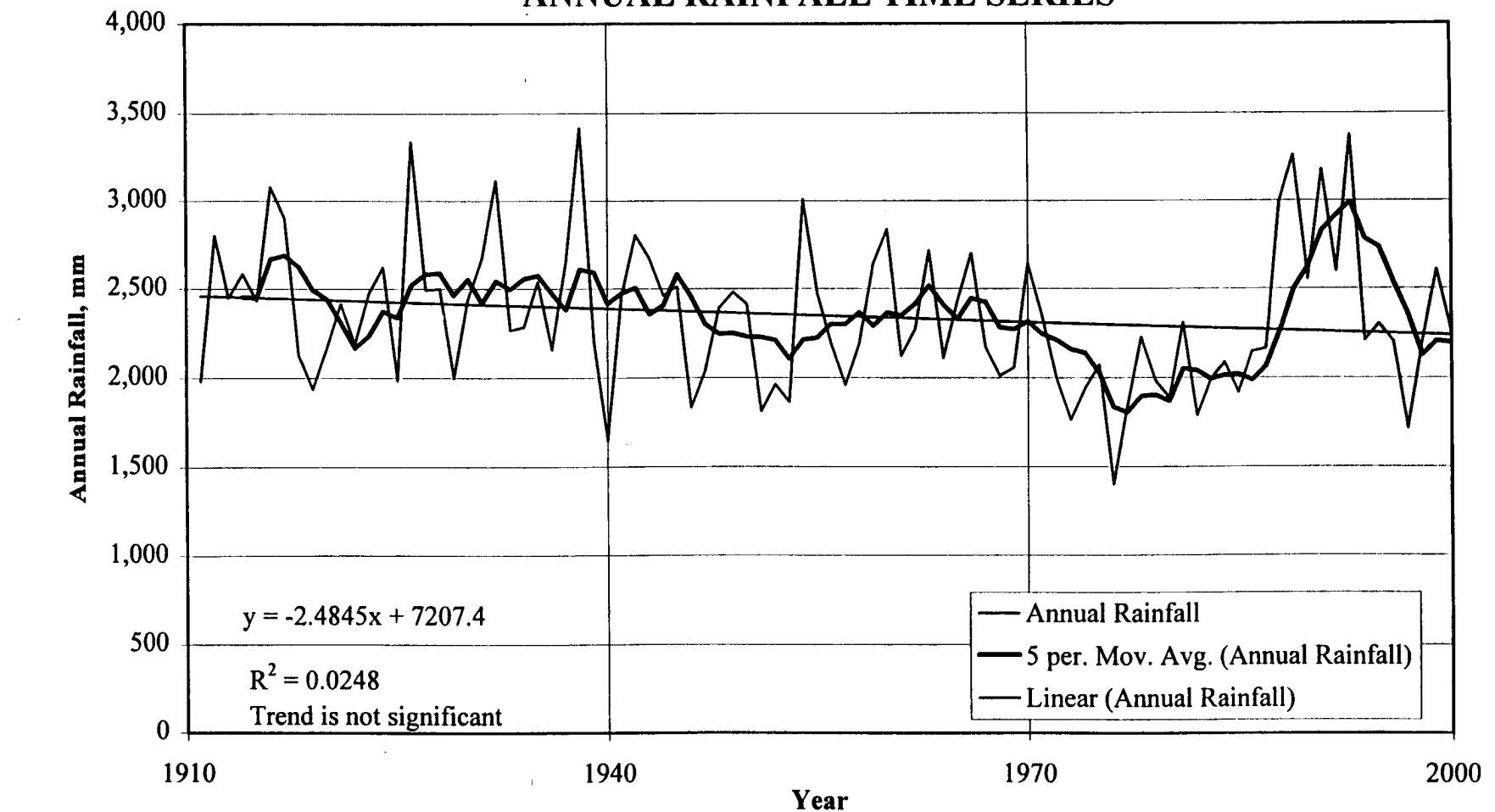
CIRI GRANGE AT LOS CANONES (CAN)
ANNUAL FLOW MASS CURVE



CIRI GRANGE AT LOS CANONES (CAN) ANNUAL FLOW TIME SERIES



CASCADAS (CAS) OR LAS CASCADAS
ANNUAL RAINFALL TIME SERIES



CANONES (CAN) OR LOS CANONES
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	60	50	82	128	534	420	133	152	366	546	187	0	2657
1912	0	88	49	79	296	244	245	263	455	441	495	341	2995
1913	81	32	0	93	370	237	216	422	407	168	193	135	2356
1914	0	0	15	81	321	296	104	355	594	338	668	97	2870
1915	59	167	89	289	253	386	389	200	330	319	196	71	2750
1916	156	84	47	153	389	229	394	243	257	754	537	131	3374
1917	170	74	0	56	304	328	276	317	499	410	914	441	3788
1918	137	26	38	123	395	162	157	271	408	382	157	100	2355
1919	121	46	40	237	246	219	243	273	390	310	409	258	2791
1920	63	53	34	25	189	256	434	217	268	467	120	30	2154
1921	63	13	50	149	256	249	314	322	491	300	208	371	2786
1922	279	43	0	13	338	269	155	274	345	356	241	322	2634
1923	40	29	6	62	197	302	127	210	345	710	329	95	2451
1924	18	69	27	150	268	448	554	273	410	328	526	139	3209
1925	169	37	5	64	200	301	430	138	543	399	460	54	2801
1926	20	42	0	0	257	416	380	403	670	452	739	375	3752
1927	158	40	22	219	382	344	322	137	282	239	350	325	2820
1928	215	56	188	155	312	543	298	578	333	453	274	154	3560
1929	0	60	55	46	303	199	212	249	230	291	343	217	2206
1930	95	25	0	84	261	207	210	271	335	232	203	65	1988
1931	141	37	67	56	287	192	405	140	232	373	423	82	2435
1932	240	71	13	180	354	413	187	153	180	440	598	282	3111
1933	125	26	14	22	219	119	233	155	335	295	719	238	2499
1934	17	15	32	67	293	206	187	276	343	410	356	301	2504
1935	221	103	26	47	370	439	607	308	387	410	566	263	3747
1936	0	30	22	121	463	199	243	313	442	328	403	125	2689
1937	144	37	50	162	350	130	270	206	594	308	321	510	3081
1938	56	36	9	108	406	410	291	389	445	402	573	235	3360
1939	21	9	27	25	217	264	119	227	418	236	479	303	2345
1940	25	59	42	56	258	145	93	175	324	288	231	0	1695
1941	182	104	4	44	245	316	249	431	474	435	271	158	2912
1942	115	35	74	132	326	333	311	309	529	459	194	371	3187
1943	184	65	93	196	419	478	425	358	488	366	335	523	3930
1944	124	93	56	290	429	223	228	433	297	331	465	377	3346

CANONES (CAN) OR LOS CANONES
MONTHLY RAINFALL IN MM

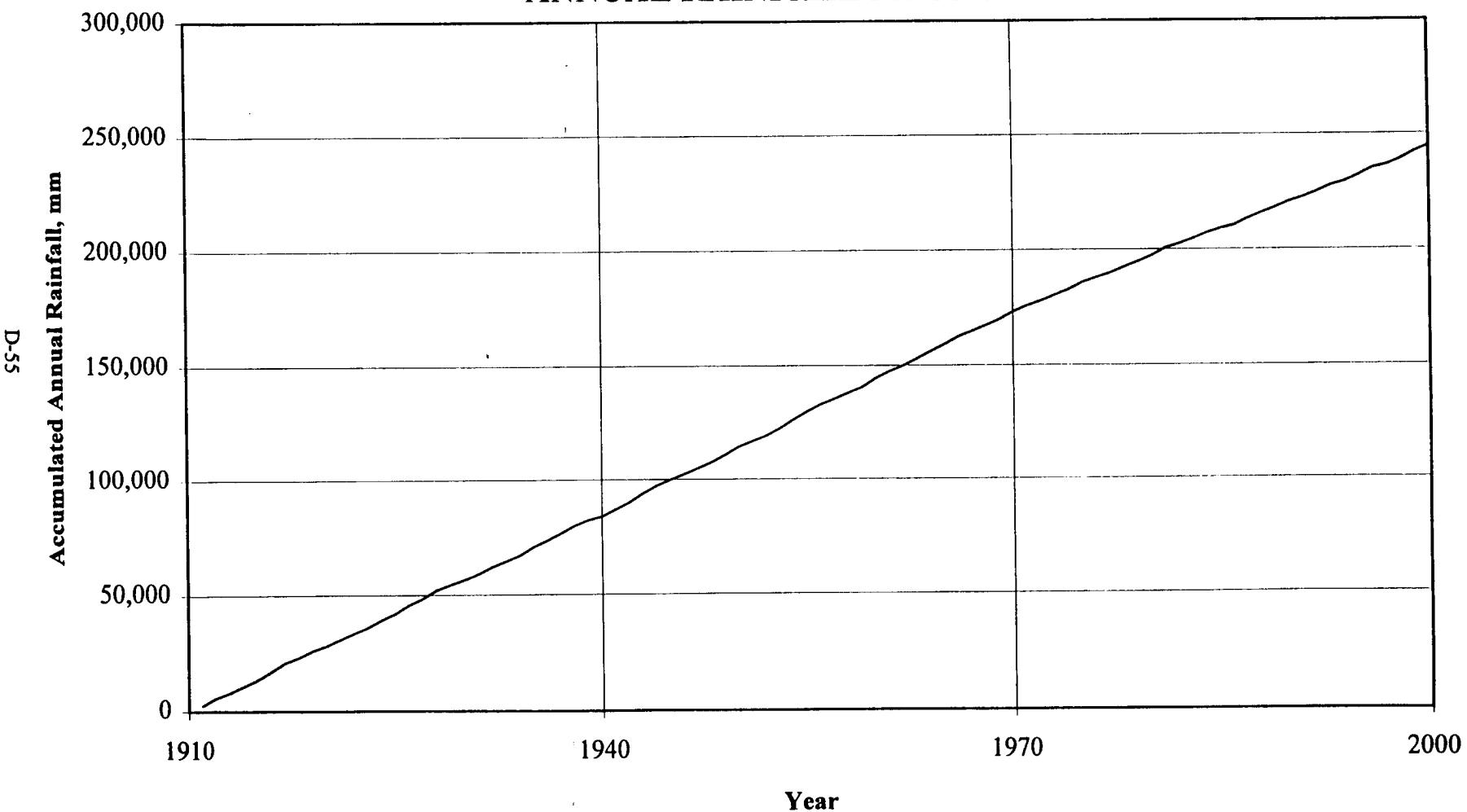
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	97	11	52	89	311	222	197	349	248	279	452	304	2613
1946	115	39	9	35	262	221	324	274	540	263	235	124	2441
1947	3	61	47	25	164	311	207	274	520	473	290	160	2535
1948	64	9	9	18	369	148	424	467	283	260	533	132	2717
1949	13	9	12	116	356	390	189	457	525	335	477	313	3193
1950	25	55	15	114	310	387	520	245	432	318	722	411	3555
1951	81	138	20	156	241	184	243	148	533	347	289	201	2580
1952	87	37	11	96	346	199	162	205	336	374	225	354	2431
1953	303	9	38	106	408	175	179	277	481	384	597	191	3149
1954	56	44	21	162	547	605	479	398	646	348	489	167	3961
1955	316	51	61	42	389	445	297	410	424	352	508	274	3569
1956	316	64	103	134	431	258	456	219	316	456	291	113	3160
1957	42	10	16	7	323	219	306	338	249	411	212	262	2397
1958	152	113	130	64	346	367	312	233	283	357	147	182	2685
1959	26	2	8	74	184	362	246	209	327	274	214	586	2513
1960	305	21	157	325	398	243	459	286	280	394	540	479	3887
1961	9	28	28	145	324	389	141	402	622	341	239	295	2963
1962	142	86	25	32	239	207	199	256	273	179	274	455	2366
1963	216	53	3	213	326	331	321	515	451	227	283	168	3107
1964	59	39	25	118	378	406	291	312	331	455	557	133	3103
1965	214	25	45	71	167	221	194	316	306	718	664	75	3016
1966	87	73	49	113	351	204	474	540	388	259	518	318	3375
1967	117	63	46	161	285	356	324	280	188	273	250	17	2360
1968	0	128	82	83	294	336	257	317	169	417	345	71	2500
1969	78	15	13	129	209	214	282	453	390	401	271	149	2604
1970	178	93	67	140	267	226	320	279	266	269	555	526	3187
1971	195	101	69	0	392	336	222	330	246	328	399	57	2673
1972	119	49	25	220	237	270	155	234	360	260	129	44	2103
1973	151	17	10	26	306	276	123	182	343	535	352	71	2393
1974	0	60	31	46	181	366	266	150	350	528	379	98	2454
1975	53	36	38	56	326	307	304	298	404	559	279	354	3014
1976	54	13	0	153	331	204	5	232	502	342	147	171	2153
1977	99	3	0	23	289	160	130	185	200	503	320	66	1978
1978	77	56	84	300	300	145	368	391	345	282	277	36	2661

CANONES (CAN) OR LOS CANONES
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	20	41	5	274	231	239	325	269	251	165	206	193	2220
1980	165	64	10	51	318	351	315	310	119	358	277	224	2560
1981	160	69	163	312	323	358	302	251	198	533	361	249	3279
1982	160	30	20	84	191	259	145	196	206	409	147	36	1882
1983	20	8	5	46	231	180	249	224	351	231	338	262	2144
1984	81	137	20	56	231	279	145	422	401	452	221	71	2517
1985	127	20	25	15	173	267	203	259	300	170	193	124	1877
1986	28	8	10	196	231	86	155	36	277	213	173	23	1435
1987	13	13	5	102	257	81	127	188	671	668	343	345	2812
1988	10	30	3	43	310	277	226	386	368	310	264	178	2405
1989	15	66	51	36	175	203	310	356	330	376	259	208	2385
1990	130	8	58	79	318	198	191	208	422	371	264	229	2474
1991	20	30	86	56	343	168	208	122	297	224	282	147	1984
1992	48	23	10	155	409	244	163	305	231	244	358	140	2329
1993	76	20	89	201	384	343	114	130	401	378	378	155	2670
1994	15	3	5	0	150	335	69	206	180	376	312	41	1692
1995	109	15	23	137	315	394	221	373	290	269	290	267	2703
1996	351	104	107	53	348	269	206	226	389	493	340	163	3048
1997	36	38	0	25	203	295	173	140	251	152	130	18	1460
1998	15	51	58	193	208	343	290	150	152	213	305	361	2339
1999	114	58	89	213	211	246	178	505	371	328	462	531	3307
2000	236	36	13	109	279	373	218	307	231	338	206	287	2634
Mean	103	47	39	108	301	282	259	283	363	364	356	212	2719
Max	351	167	188	325	547	605	607	578	671	754	914	586	3961
Min	0	0	0	0	150	81	5	36	119	152	120	0	1435
Std	86	34	39	79	82	100	114	105	122	120	162	141	550
Skew	0.9	1.1	1.6	0.9	0.4	0.5	0.7	0.5	0.5	0.9	0.9	0.6	0.2
CV	0.8	0.7	1.0	0.7	0.3	0.4	0.4	0.4	0.3	0.3	0.5	0.7	0.2

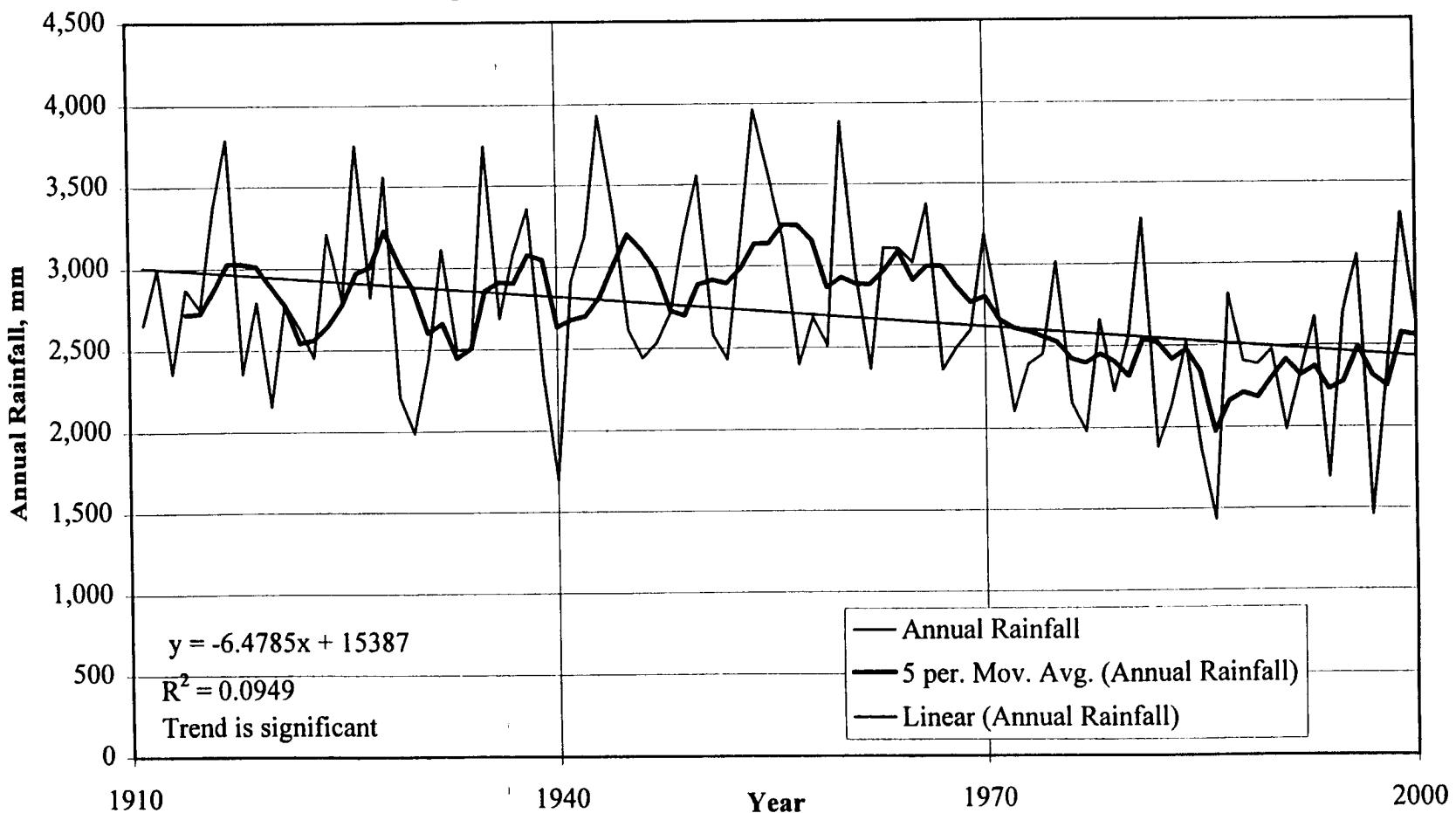
Note : Estimated rainfall in bold values.

**CANONES (CAN) OR LOS CANONES
ANNUAL RAINFALL MASS CURVE**



**CANONES (CAN) OR LOS CANONES
ANNUAL RAINFALL TIME SERIES**

95-D



EMPIRE HILLS (EMH)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	1	14	5	100	349	150	102	152	139	380	298	5	1694
1912	0	9	0	67	158	216	232	267	350	316	184	94	1894
1913	42	20	6	23	298	292	124	266	232	184	361	52	1899
1914	9	7	0	13	327	225	128	251	245	230	152	113	1700
1915	17	90	6	126	217	181	309	252	209	416	269	119	2210
1916	27	38	21	103	252	179	200	144	234	363	421	130	2111
1917	0	2	0	61	205	311	304	223	291	162	604	196	2358
1918	38	1	5	176	344	236	235	132	235	512	183	10	2105
1919	13	6	1	191	178	141	196	216	280	315	169	62	1769
1920	4	1	20	38	195	280	284	254	481	397	236	40	2230
1921	4	40	13	17	185	238	298	353	199	347	266	112	2071
1922	91	23	7	0	279	221	166	124	160	293	288	109	1761
1923	26	1	0	6	230	451	99	244	199	492	269	81	2098
1924	0	23	21	108	195	267	218	262	202	324	444	144	2208
1925	43	2	6	192	308	246	224	214	343	366	234	49	2226
1926	2	2	0	0	268	280	439	188	344	434	180	251	2388
1927	8	44	0	165	283	378	197	150	350	191	231	128	2125
1928	9	5	19	132	252	177	281	261	358	306	389	80	2268
1929	19	0	5	49	263	140	150	257	183	346	237	152	1802
1930	24	19	11	64	222	283	352	301	291	241	237	64	2109
1931	18	7	18	68	206	305	396	236	381	245	410	31	2322
1932	0	23	30	347	229	402	196	286	204	552	400	67	2735
1933	36	7	11	14	223	301	216	292	364	143	300	249	2155
1934	35	5	7	100	335	154	147	256	454	387	370	209	2459
1935	23	55	20	112	263	194	367	254	260	246	707	75	2576
1936	0	25	33	185	314	306	313	239	202	571	210	64	2461
1937	70	0	0	180	277	205	170	368	378	449	333	467	2895
1938	53	14	23	61	493	488	279	393	275	505	415	206	3205
1939	18	10	0	106	167	234	195	158	208	352	499	137	2084
1940	25	21	4	31	242	245	110	217	172	315	358	63	1803
1941	44	42	14	29	220	234	320	294	234	305	181	136	2053
1942	0	11	32	80	450	256	257	173	361	497	270	350	2736
1943	47	11	34	150	352	164	134	205	321	216	363	222	2219
1944	14	0	10	131	226	389	217	491	214	372	275	164	2503
1945	0	0	6	146	315	242	300	279	267	334	403	232	2523

EMPIRE HILLS (EMH)
MONTHLY RAINFALL IN MM

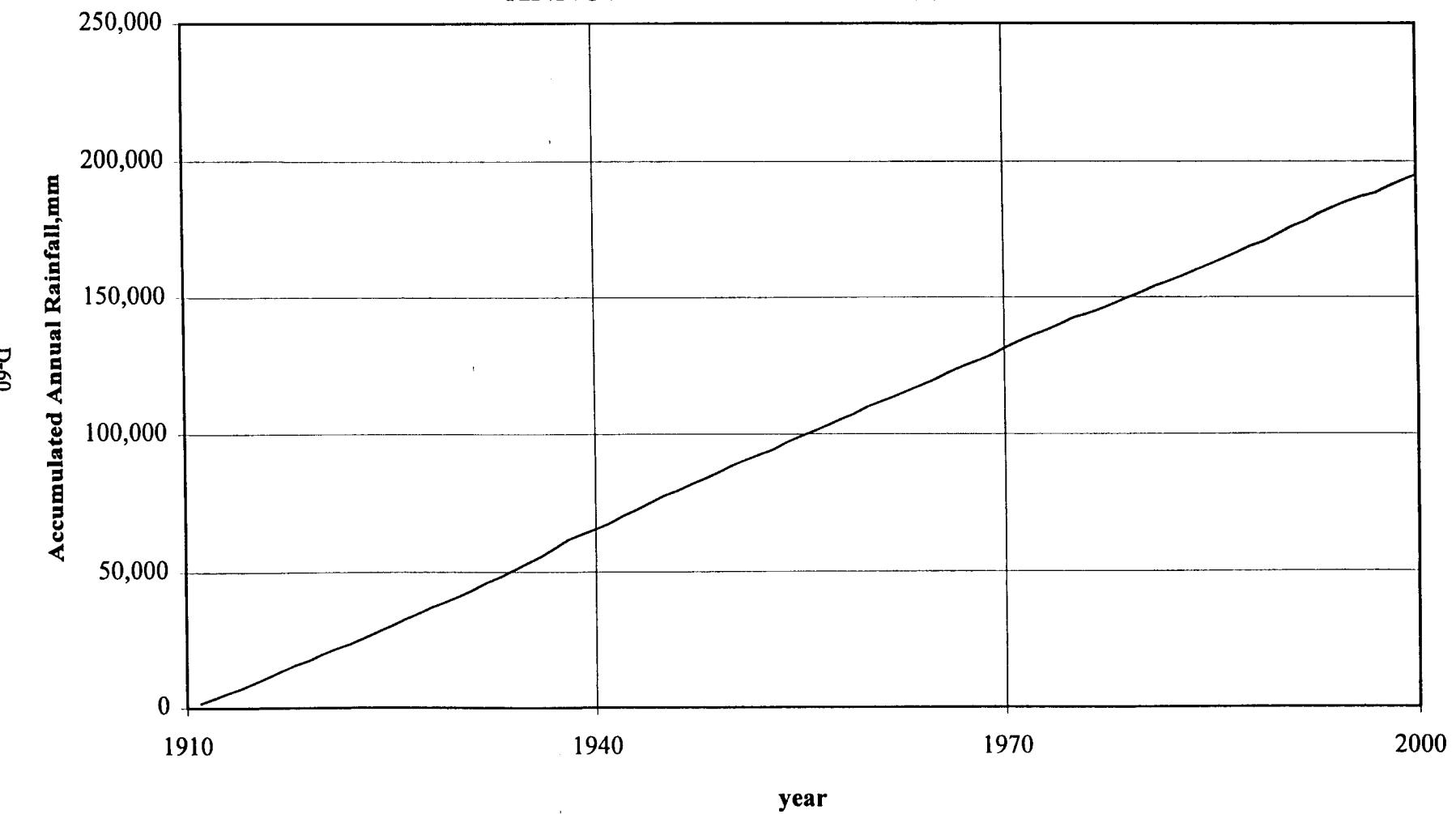
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1946	23	0	31	30	176	163	251	190	241	319	226	127	1777
1947	11	8	0	70	125	320	200	340	385	548	228	47	2282
1948	29	5	3	5	275	203	224	243	341	247	413	30	2018
1949	25	15	7	49	350	380	270	202	163	408	300	59	2228
1950	17	14	16	60	330	530	414	164	174	271	473	158	2620
1951	44	36	4	82	300	182	290	195	92	212	367	153	1957
1952	4	20	13	206	154	238	60	65	214	547	167	176	1862
1953	43	12	0	108	209	139	167	210	124	316	380	32	1738
1954	30	26	11	71	331	363	366	316	370	309	386	137	2715
1955	99	17	3	70	182	340	175	259	164	209	408	166	2092
1956	71	37	1	38	403	150	297	187	178	345	230	33	1970
1957	11	0	8	56	295	222	234	235	340	476	174	18	2069
1958	28	24	32	43	307	287	182	250	309	484	281	59	2286
1959	0	7	0	18	208	300	174	294	186	442	240	158	2026
1960	51	11	20	86	245	377	215	229	309	478	228	256	2504
1961	4	5	11	49	132	406	198	222	257	296	220	204	2004
1962	19	6	2	59	242	243	141	220	278	231	263	90	1793
1963	68	28	1	198	215	256	303	208	227	167	320	81	2071
1964	7	0	1	113	302	295	323	188	272	283	328	65	2175
1965	22	2	0	48	458	121	247	287	274	210	346	75	2088
1966	47	24	7	151	190	372	283	297	375	241	330	265	2583
1967	25	23	12	94	231	299	247	235	314	391	210	68	2150
1968	28	63	12	15	305	237	170	232	204	406	267	17	1956
1969	4	3	0	19	190	155	190	278	340	378	303	79	1939
1970	157	22	62	117	350	172	247	401	257	357	352	270	2765
1971	143	70	31	81	384	137	228	303	328	326	358	0	2390
1972	68	19	15	229	198	301	90	147	444	251	250	97	2110
1973	0	10	0	42	205	272	293	133	194	235	391	98	1873
1974	16	3	9	42	290	324	246	280	340	422	180	102	2255
1975	13	13	2	23	278	246	350	221	219	562	371	135	2434
1976	15	6	0	70	151	166	135	168	292	193	158	47	1401
1977	20	5	0	16	259	178	232	258	120	309	284	80	1761
1978	9	4	19	184	237	241	219	198	277	247	367	10	2014
1979	0	3	0	175	328	249	185	213	127	450	274	89	2093
1980	61	23	0	13	241	290	267	267	239	218	302	122	2042

EMPIRE HILLS (EMH)
MONTHLY RAINFALL IN MM

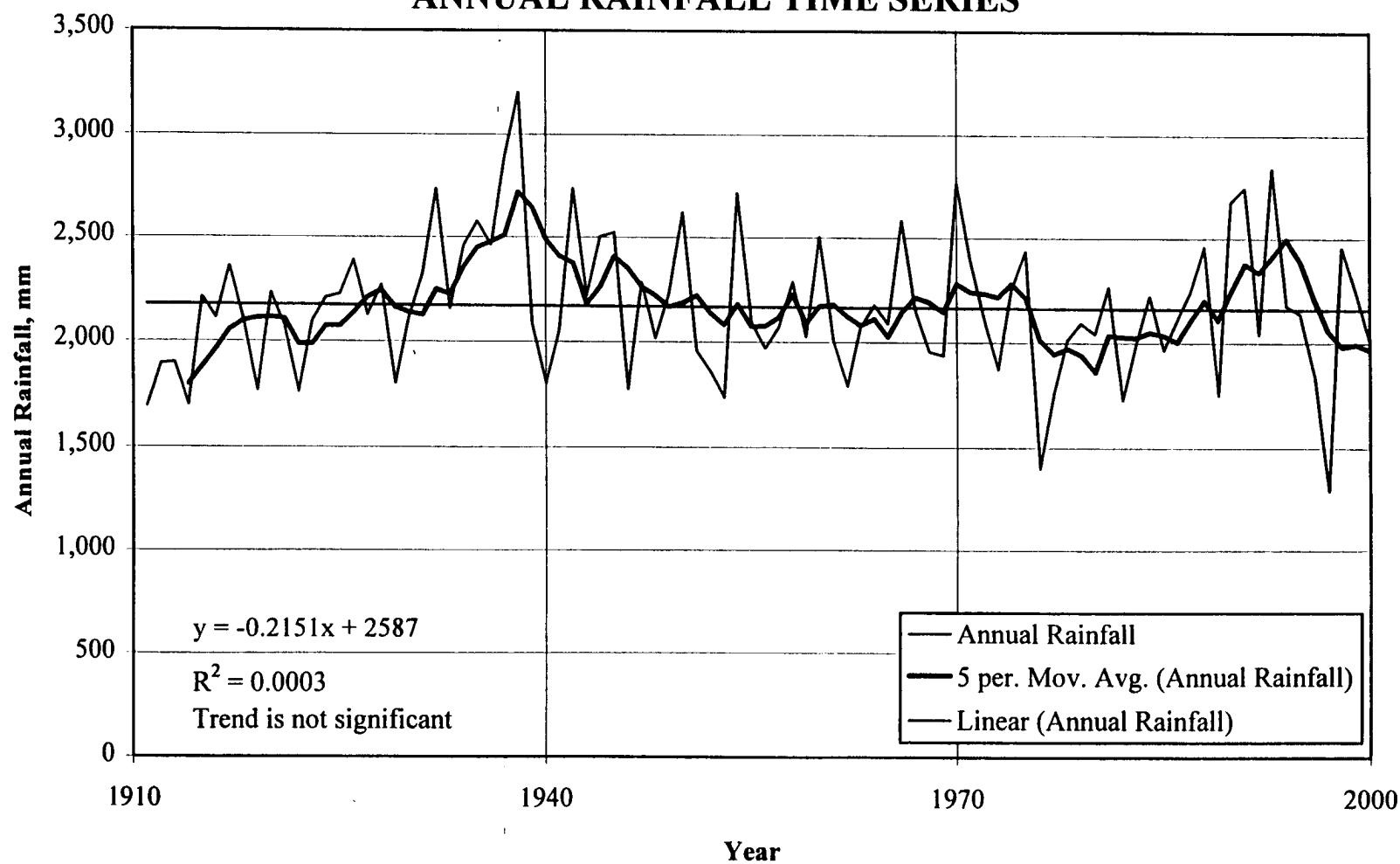
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1981	15	0	61	292	221	381	272	155	267	137	320	142	2263
1982	76	13	0	74	335	124	208	211	244	279	165	0	1730
1983	3	3	18	64	234	216	175	163	363	279	312	165	1994
1984	36	58	0	25	244	224	239	384	345	470	188	8	2220
1985	8	8	25	43	287	389	310	170	267	150	165	145	1966
1986	3	5	69	173	91	269	170	292	244	572	193	28	2108
1987	0	10	0	163	178	328	231	340	409	259	234	94	2245
1988	0	13	3	20	269	325	201	325	259	564	320	160	2459
1989	10	13	5	0	122	175	221	340	137	239	348	142	1753
1990	30	3	13	61	371	102	391	371	345	526	272	191	2675
1991	38	8	53	102	495	231	302	368	432	401	241	71	2743
1992	0	3	3	79	132	508	262	191	229	376	213	46	2040
1993	99	5	18	89	173	559	302	241	523	340	366	124	2840
1994	20	3	51	51	320	231	112	236	224	493	417	20	2177
1995	10	0	23	137	277	318	310	188	173	254	384	64	2136
1996	183	15	15	36	264	137	226	188	224	249	206	99	1842
1997	8	0	0	15	163	127	208	185	185	196	196	10	1293
1998	0	3	0	43	279	279	262	399	272	264	333	320	2454
1999	28	53	13	64	178	361	94	221	475	249	264	239	2238
2000	79	0	3	112	221	249	147	244	310	323	160	157	2004
Mean	29	15	12	86	258	263	232	244	272	339	298	117	2166
Max	183	90	69	347	495	559	439	491	523	572	707	467	3205
Min	0	0	0	0	91	102	60	65	92	137	152	0	1293
Std	35	17	15	68	81	96	78	73	90	115	100	85	332
Skew	2.2	2.0	1.9	1.2	0.7	0.8	0.2	0.6	0.5	0.4	1.1	1.3	0.4
CV	1.2	1.2	1.2	0.8	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.7	0.2

Note : Estimated rainfall in bold values.

EMPIRE HILLS (EMH)
ANNUAL RAINFALL MASS CURVE



EMPIRE HILLS (EMH)
ANNUAL RAINFALL TIME SERIES



ESCANDALOSA (ESC)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	151	23	86	227	521	315	113	209	210	361	284	142	2643
1912	153	82	30	83	304	281	207	315	279	487	629	329	3180
1913	103	141	73	26	485	433	346	398	271	290	344	73	2983
1914	78	94	88	158	274	407	186	316	508	418	591	286	3405
1915	51	276	24	558	407	511	487	274	250	359	519	584	4301
1916	139	72	39	491	334	299	455	302	259	475	346	224	3435
1917	0	64	43	40	352	220	467	409	234	291	619	585	3324
1918	128	82	40	362	395	321	245	311	315	504	396	97	3197
1919	105	51	26	387	260	265	302	348	333	375	331	247	3031
1920	76	29	54	124	342	194	495	397	210	422	300	97	2741
1921	59	115	30	238	451	286	210	422	327	427	356	270	3191
1922	317	42	89	142	478	233	132	229	252	279	477	315	2984
1923	107	80	23	23	365	388	284	225	240	718	362	171	2985
1924	91	153	1	356	362	356	441	473	405	281	379	205	3504
1925	232	76	19	227	241	512	569	179	287	520	391	113	3366
1926	56	64	102	99	323	540	608	336	351	422	753	409	4063
1927	135	95	121	248	462	400	753	235	389	241	577	644	4300
1928	81	84	231	54	345	567	288	400	283	332	589	338	3593
1929	63	118	57	0	230	501	521	327	151	319	353	160	2800
1930	219	48	61	282	384	237	232	218	293	215	463	293	2946
1931	167	63	248	25	490	331	305	216	295	489	1329	296	4254
1932	121	33	51	75	327	401	127	227	216	586	1054	501	3720
1933	168	16	63	221	442	320	569	299	325	240	470	326	3458
1934	102	29	77	73	320	316	297	250	355	367	568	245	3000
1935	172	92	70	253	440	372	436	322	266	359	1189	644	4616
1936	128	48	43	62	493	211	330	271	346	292	514	126	2862
1937	195	65	72	168	469	531	370	362	372	284	571	686	4144
1938	127	110	65	169	558	696	263	412	289	148	284	397	3517
1939	86	2	97	116	208	367	118	384	335	276	486	193	2668
1940	97	97	30	207	407	236	342	360	209	327	331	68	2711
1941	123	128	128	134	356	425	405	402	298	663	413	206	3681
1942	127	20	124	135	390	576	271	317	315	566	256	301	3398
1943	95	88	0	274	376	339	164	355	465	294	242	520	3213
1944	98	90	19	264	505	239	344	352	225	385	476	706	3701

ESCANDALOSA (ESC)
MONTHLY RAINFALL IN MM

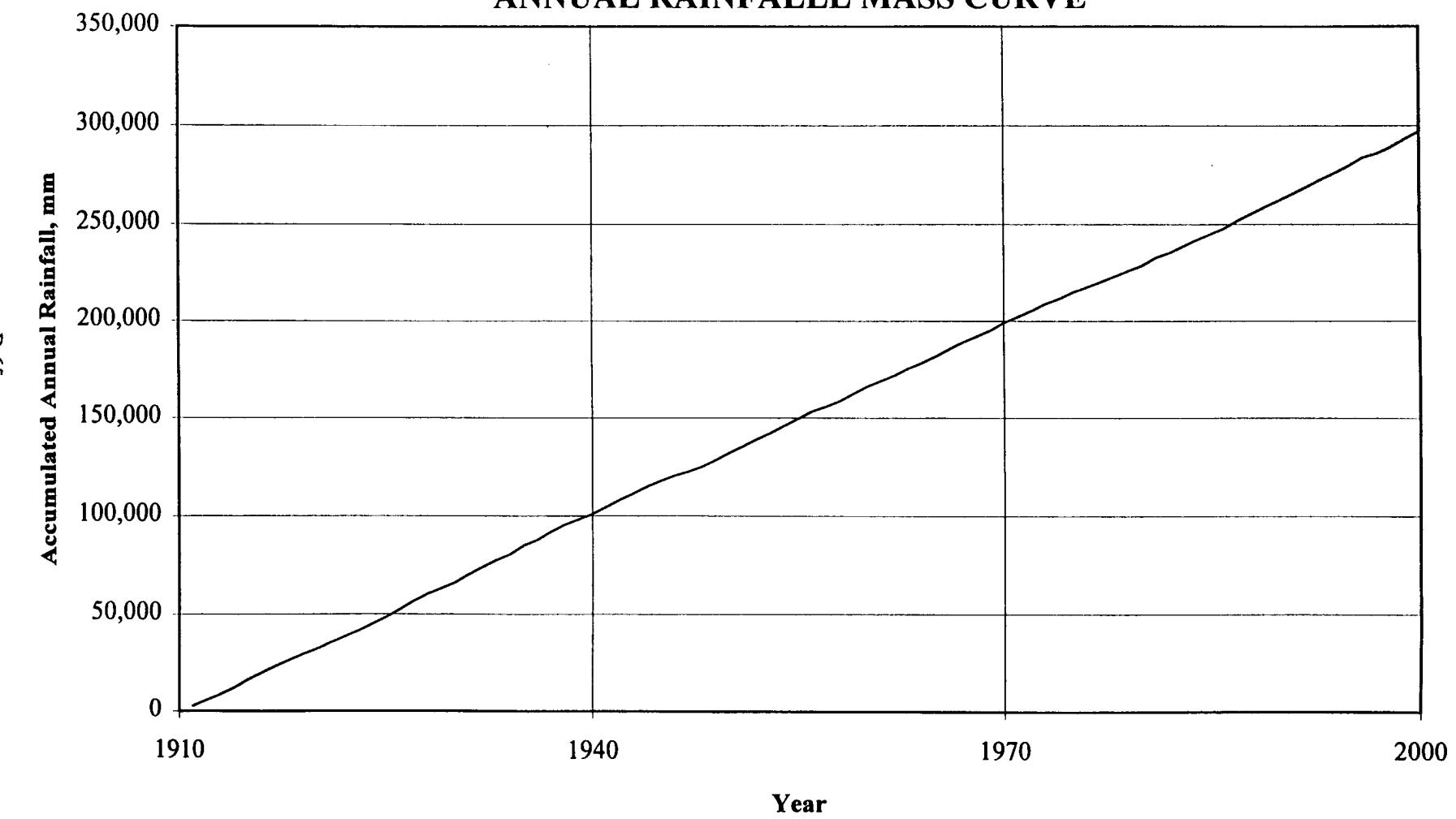
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	24	18	45	49	303	399	396	324	235	298	360	359	2809
1946	36	13	14	122	340	209	447	161	336	271	283	422	2654
1947	26	92	10	131	170	272	253	359	230	234	101	198	2076
1948	119	30	32	110	239	329	330	335	244	249	352	156	2524
1949	56	56	32	142	347	573	437	392	278	391	411	291	3406
1950	87	174	44	225	445	301	682	202	250	241	542	572	3765
1951	115	382	62	272	352	294	220	429	285	402	276	182	3270
1952	134	39	4	145	398	248	557	460	294	516	184	583	3564
1953	381	115	100	88	354	247	394	284	231	314	372	348	3229
1954	82	99	58	216	421	416	531	360	251	302	590	493	3818
1955	385	60	65	88	292	234	283	501	278	193	832	360	3571
1956	385	101	223	116	532	271	476	284	256	223	566	258	3691
1957	92	64	11	12	270	196	113	281	208	297	597	239	2379
1958	161	107	150	44	287	115	515	265	375	252	356	288	2915
1959	42	26	13	192	284	378	353	249	470	435	607	877	3926
1960	152	75	167	511	498	302	280	279	190	225	467	591	3736
1961	72	24	49	193	209	725	239	291	195	283	306	210	2795
1962	124	30	65	81	538	230	387	303	212	327	287	242	2826
1963	225	69	43	218	345	483	538	520	339	240	344	108	3473
1964	49	21	40	203	360	520	251	405	244	329	369	86	2877
1965	171	73	0	80	467	386	232	228	310	544	599	305	3395
1966	136	54	25	476	452	177	322	297	322	349	712	399	3720
1967	133	111	79	268	457	463	426	259	315	235	645	333	3725
1968	24	110	224	73	423	245	332	286	260	430	417	124	2946
1969	106	49	76	73	524	188	303	311	379	225	267	557	3058
1970	386	82	109	368	516	191	262	330	231	163	686	838	4161
1971	99	74	178	33	310	480	371	297	229	480	338	127	3015
1972	450	89	38	363	386	343	185	251	297	353	246	239	3241
1973	130	81	10	25	404	394	450	338	307	315	665	290	3409
1974	86	56	53	102	330	246	386	246	224	333	536	109	2708
1975	91	20	71	69	447	300	452	307	254	480	422	549	3462
1976	56	81	89	257	170	239	142	262	450	411	318	76	2550
1977	130	36	30	71	178	272	315	422	345	343	287	269	2697
1978	74	94	84	394	358	333	290	328	279	251	325	155	2964

ESCANDALOSA (ESC)
MONTHLY RAINFALL IN MM

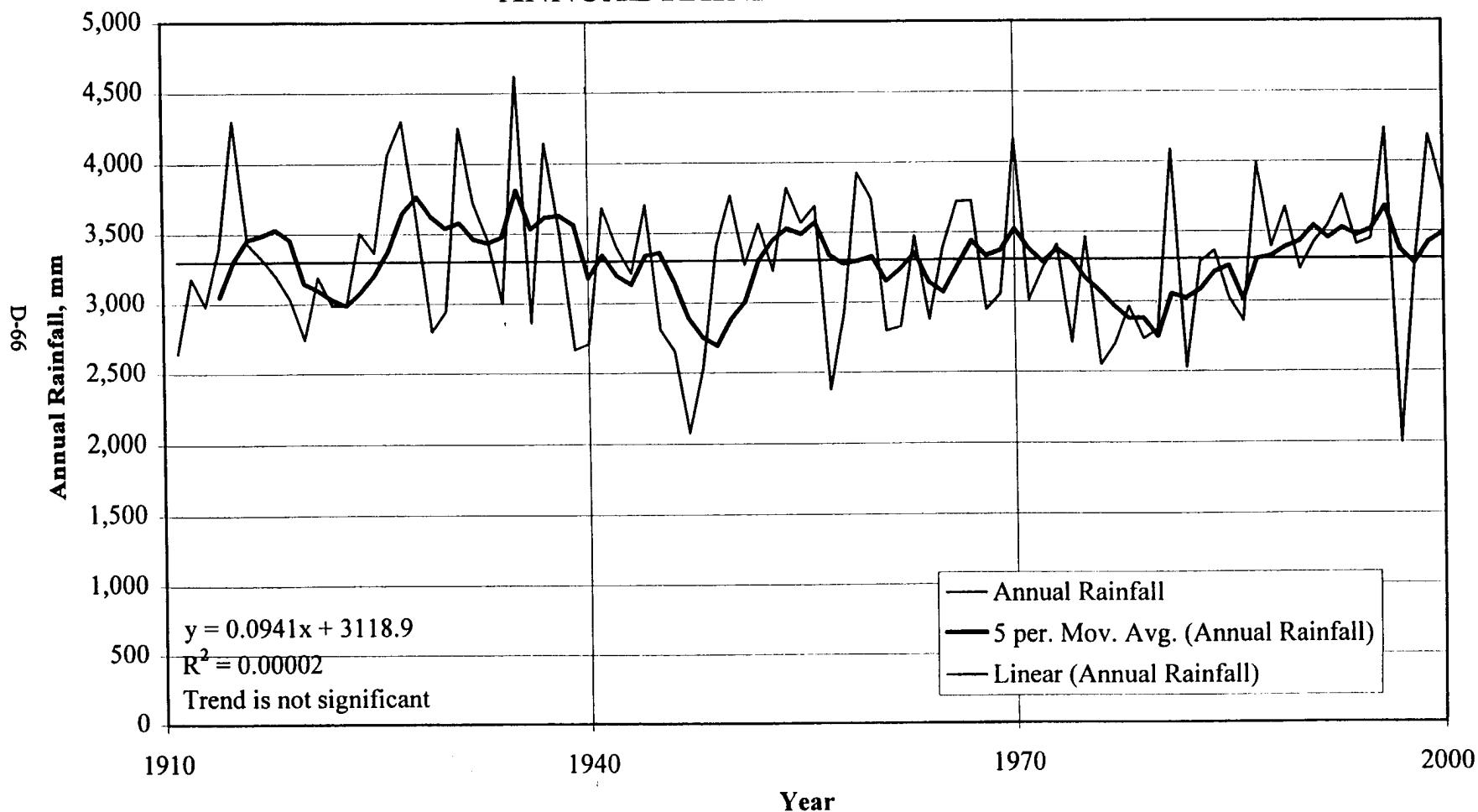
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	25	79	61	300	292	269	249	127	135	305	401	490	2733
1980	38	124	30	109	467	445	135	193	257	356	345	300	2799
1981	173	104	130	960	287	320	470	302	165	249	437	488	4084
1982	130	64	25	254	175	290	419	361	203	312	145	150	2527
1983	61	3	18	241	384	218	206	328	366	315	300	843	3282
1984	157	79	28	71	254	485	389	551	259	338	452	300	3363
1985	107	64	48	64	368	432	236	216	417	259	323	493	3025
1986	124	41	53	417	391	368	137	287	310	300	340	91	2860
1987	81	76	28	625	439	320	373	399	345	569	523	208	3988
1988	43	165	64	61	363	170	676	409	257	630	297	259	3393
1989	117	259	36	53	417	351	526	467	269	424	465	290	3673
1990	206	64	145	91	490	224	246	394	310	531	297	234	3231
1991	94	71	84	170	605	257	246	213	465	206	770	244	3424
1992	71	41	43	269	714	366	361	518	348	259	315	239	3543
1993	168	28	274	432	264	533	269	208	457	518	386	221	3759
1994	58	66	157	66	493	599	257	452	251	323	554	132	3409
1995	165	18	28	140	300	544	490	175	239	269	526	556	3449
1996	559	165	107	251	582	312	277	348	213	269	737	414	4234
1997	56	140	41	33	490	264	201	168	178	284	102	41	1996
1998	56	13	38	366	279	333	391	351	414	290	246	480	3256
1999	94	117	157	264	394	310	493	277	254	335	439	1052	4186
2000	246	76	94	152	356	518	257	376	142	455	318	787	3777
Mean	131	79	70	194	381	351	346	320	289	353	451	337	3303
Max	559	382	274	960	714	725	753	551	508	718	1329	1052	4616
Min	0	2	0	0	170	115	113	127	135	148	101	41	1996
Std	7	58	58	159	105	125	140	88	77	116	206	210	524
Skew	2.1	2.4	1.6	1.8	0.2	0.8	0.5	0.3	0.6	0.9	1.7	1.1	0.1
CV	0.1	0.7	0.8	0.8	0.3	0.4	0.4	0.3	0.3	0.3	0.5	0.6	0.2

Note : Estimated rainfall in bold values.

ESCANDALOSA(ESC)
ANNUAL RAINFALL MASS CURVE



ESCANDALOSA (ESC)
ANNUAL RAINFALL TIME SERIES



GAMBOA (GAM)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	3	18	10	102	369	177	184	195	132	324	256	25	1795
1912	2	28	3	20	202	296	362	423	324	345	167	92	2262
1913	67	17	2	27	384	204	205	418	241	221	359	46	2192
1914	16	6	1	35	261	452	99	202	292	249	196	156	1965
1915	44	70	1	180	130	229	204	115	252	405	253	178	2059
1916	55	39	23	170	311	214	244	310	289	342	250	121	2367
1917	2	8	7	101	207	199	451	321	252	285	560	211	2602
1918	78	2	14	80	291	257	165	218	193	438	149	32	1917
1919	14	5	1	178	148	153	170	187	239	298	89	94	1575
1920	1	3	5	38	193	190	374	228	322	633	346	77	2410
1921	2	137	2	29	150	325	288	398	266	300	177	112	2188
1922	206	36	2	6	382	231	155	183	222	300	167	169	2060
1923	26	4	1	8	320	370	218	239	275	649	267	21	2396
1924	2	47	34	104	267	167	173	391	283	224	512	123	2326
1925	85	5	7	71	173	168	197	330	289	245	313	98	1981
1926	1	5	1	0	146	356	457	338	303	231	186	231	2253
1927	9	20	2	199	212	313	304	210	189	191	188	96	1934
1928	9	6	70	78	259	211	151	213	258	297	394	122	2067
1929	8	0	24	19	253	195	229	327	197	356	229	77	1913
1930	7	23	3	189	357	159	257	239	184	234	148	21	1822
1931	3	48	62	97	233	324	313	171	274	164	484	132	2306
1932	12	3	3	253	212	374	183	264	146	360	425	81	2317
1933	31	0	6	3	295	301	149	250	266	186	418	251	2155
1934	49	16	3	120	275	207	132	235	320	506	364	144	2370
1935	16	19	1	79	296	235	525	336	294	197	794	118	2909
1936	5	2	9	74	371	250	243	187	255	570	234	53	2254
1937	97	20	1	40	178	191	183	252	341	281	421	627	2630
1938	22	7	24	43	446	345	331	307	243	373	398	323	2862
1939	3	1	2	2	141	237	173	188	229	209	459	237	1883
1940	36	11	6	13	268	206	169	342	263	381	231	22	1948
1941	33	37	6	23	151	248	254	158	250	249	163	194	1767
1942	19	12	68	65	279	281	206	220	213	488	194	362	2407
1943	44	20	10	78	348	326	116	136	202	198	457	326	2263
1944	15	3	1	64	261	143	164	367	215	384	207	114	1937

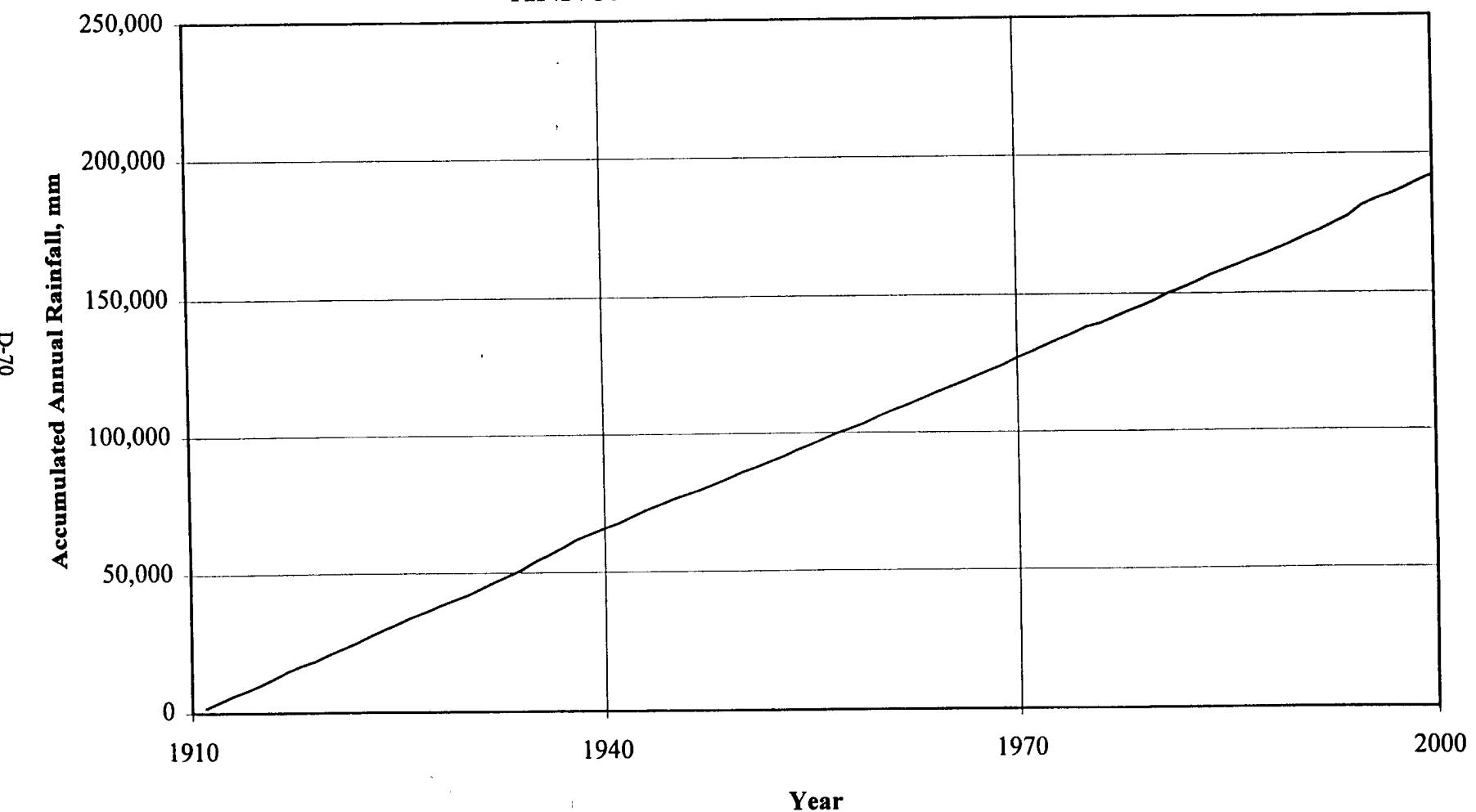
GAMBOA (GAM)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	6	1	2	119	242	107	346	297	239	223	313	169	2064
1946	14	2	9	16	185	166	305	141	185	203	250	184	1660
1947	3	18	5	36	168	184	248	268	293	255	251	84	1812
1948	48	0	2	11	360	147	251	174	224	308	381	48	1955
1949	0	0	12	44	191	315	251	240	183	299	394	99	2030
1950	7	10	20	50	235	336	354	204	193	163	434	174	2180
1951	15	51	7	100	343	120	238	173	105	213	247	187	1798
1952	32	12	2	64	292	332	213	106	193	385	126	241	1995
1953	54	9	4	95	293	130	205	263	125	284	257	104	1822
1954	35	36	19	98	209	186	527	358	192	193	397	48	2297
1955	133	17	6	8	243	354	165	230	162	149	363	147	1976
1956	92	24	15	26	352	146	287	177	139	442	255	103	2056
1957	0	1	0	5	311	236	233	239	393	388	280	36	2122
1958	40	5	14	55	325	200	177	221	221	280	169	60	1768
1959	7	0	0	48	321	141	170	226	229	207	248	274	1871
1960	66	17	38	90	218	349	318	233	205	340	241	287	2402
1961	7	8	5	150	113	382	252	225	264	331	222	181	2141
1962	20	0	7	101	173	238	156	237	293	310	229	86	1850
1963	138	38	0	50	255	279	219	234	227	211	424	84	2158
1964	2	0	3	67	363	263	321	239	279	218	346	20	2122
1965	33	2	1	0	319	192	167	217	187	269	410	153	1950
1966	16	1	1	66	138	383	143	158	296	179	445	202	2027
1967	8	0	7	89	189	302	286	217	363	359	220	56	2097
1968	0	72	0	18	233	330	176	299	312	294	386	33	2154
1969	21	6	7	72	248	130	199	251	279	242	367	161	1981
1970	175	7	78	148	264	135	261	291	269	328	369	290	2614
1971	146	40	50	28	283	153	240	348	229	345	272	18	2153
1972	97	13	36	191	185	312	241	175	356	330	297	94	2327
1973	8	5	0	25	188	371	356	178	305	224	439	48	2146
1974	13	3	33	10	267	361	363	135	208	455	213	114	2174
1975	3	5	15	10	284	244	361	470	193	343	249	229	2405
1976	8	0	3	28	127	216	81	122	277	206	188	25	1280
1977	10	5	0	38	229	196	267	404	191	389	213	127	2068
1978	5	8	28	140	310	257	376	170	213	310	198	163	2177

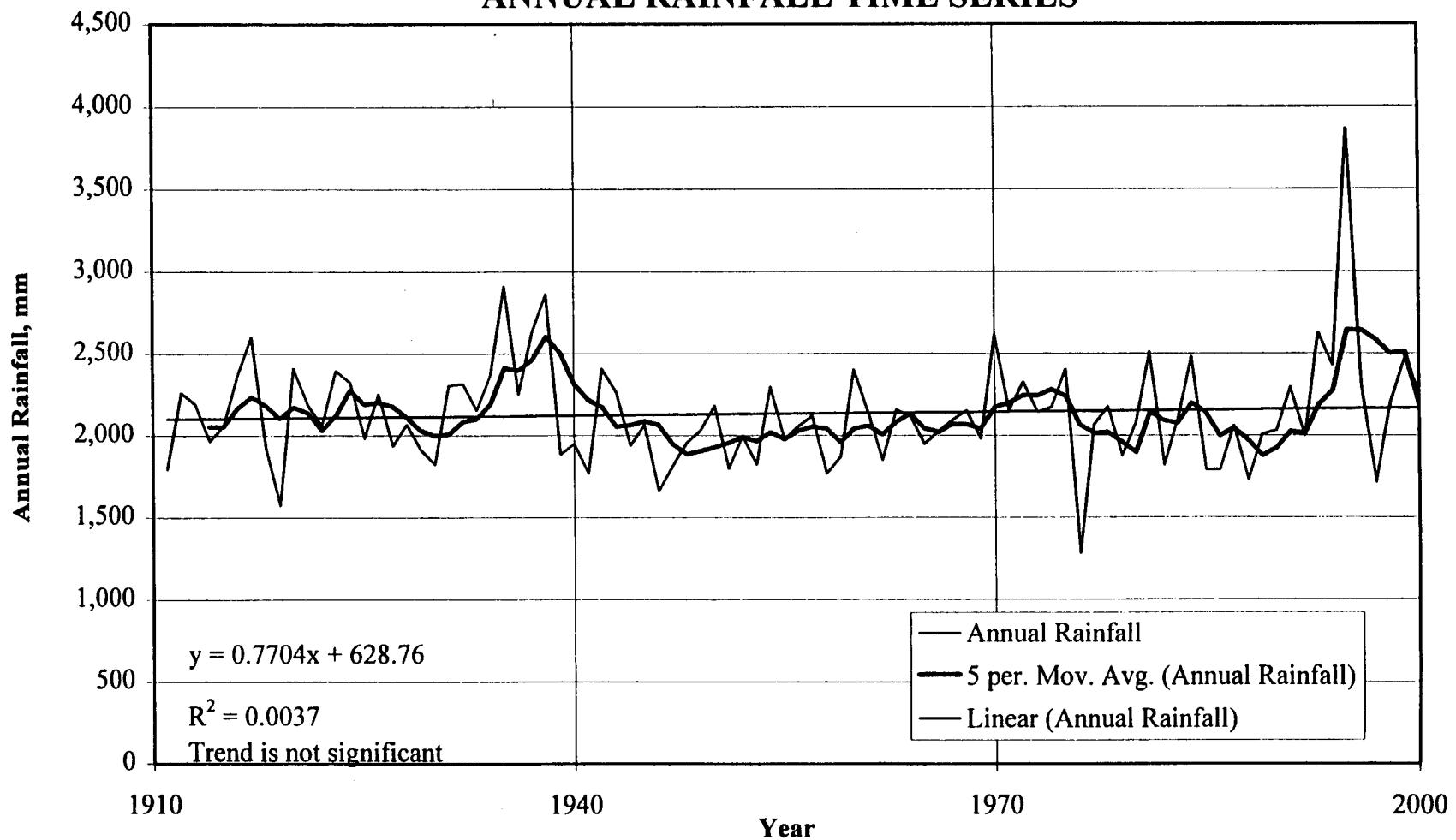
GAMBOA (GAM)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	3	5	3	259	241	345	208	163	152	284	152	61	1877
1980	107	36	3	15	218	302	254	312	259	312	132	130	2080
1981	41	0	76	318	211	315	356	201	155	211	462	168	2512
1982	147	8	3	64	343	119	175	185	226	338	193	20	1821
1983	8	0	0	51	269	254	147	178	384	310	287	213	2101
1984	20	64	0	38	251	320	218	411	414	406	333	5	2482
1985	13	8	18	8	292	259	234	193	351	150	112	157	1793
1986	0	13	64	109	64	356	122	236	175	508	130	18	1793
1987	0	13	3	185	206	287	287	262	274	272	198	74	2060
1988	0	5	5	23	173	224	137	239	239	340	277	69	1730
1989	3	8	0	0	107	208	241	287	234	401	429	91	2009
1990	36	0	8	23	315	84	203	203	302	381	269	208	2032
1991	28	0	20	69	361	284	279	274	381	366	185	46	2294
1992	10	5	0	99	188	373	378	188	284	274	145	51	1996
1993	109	5	66	127	163	366	231	224	523	389	340	84	2626
1994	23	15	53	15	363	239	191	267	330	368	483	81	2428
1995	18	3	30	122	396	432	518	538	333	536	729	211	3866
1996	234	18	41	61	257	239	216	310	257	320	310	38	2299
1997	13	5	3	13	318	152	241	183	135	384	254	15	1715
1998	0	3	3	218	191	224	262	323	290	211	290	188	2200
1999	33	102	36	97	274	277	97	284	373	218	305	373	2469
2000	36	8	3	91	330	315	160	274	305	318	216	216	2271
Mean	35	16	14	74	253	252	244	251	255	312	298	133	2135
Max	234	137	78	318	446	452	527	538	523	649	794	627	3866
Min	0	0	0	0	64	84	81	106	105	149	89	5	1280
Std	48	23	20	66	78	83	94	83	72	103	128	101	332
Skew	2.2	2.9	1.8	1.3	0.0	0.1	1.0	0.9	0.6	1.0	1.2	1.7	1.6
CV	1.4	1.4	1.4	0.9	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.8	0.2

GAMBOA (GAM)
ANNUAL RAINFALL MASS CURVE



GAMBOA (GAM)
ANNUAL RAINFALL TIME SERIES



GATUN (GAT)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	30	56	46	162	486	374	169	201	110	430	401	57	2522
1912	23	60	14	106	351	376	301	304	199	369	487	249	2840
1913	118	74	26	137	433	272	247	313	253	385	403	205	2865
1914	41	27	24	83	277	321	109	385	278	359	319	117	2342
1915	46	335	23	404	260	322	463	313	409	497	464	184	3718
1916	27	56	83	120	288	272	246	152	209	416	486	107	2460
1917	28	16	13	250	385	315	452	452	310	255	786	294	3557
1918	102	13	14	169	296	211	207	455	185	577	292	49	2570
1919	36	14	15	306	182	319	200	230	214	443	183	168	2309
1920	18	25	18	4	67	187	388	387	168	446	248	83	2040
1921	51	70	20	119	358	336	335	501	348	231	534	229	3132
1922	241	33	29	60	323	319	134	184	304	452	445	204	2726
1923	57	14	12	40	259	293	221	394	308	1010	389	171	3168
1924	19	95	22	359	315	320	394	252	317	352	706	150	3300
1925	76	28	18	208	212	228	365	194	356	311	528	142	2666
1926	23	42	18	15	319	477	596	354	232	430	610	231	3346
1927	145	64	67	204	421	286	346	375	247	289	452	405	3301
1928	51	32	73	33	293	385	274	500	251	376	520	526	3316
1929	19	14	49	36	303	273	193	488	214	398	383	140	2510
1930	72	37	15	175	270	229	268	252	328	284	512	176	2617
1931	67	43	100	180	416	225	436	347	121	451	811	60	3258
1932	76	17	43	91	319	421	325	266	202	462	1185	406	3812
1933	66	5	25	8	219	449	327	126	302	420	1055	550	3552
1934	67	20	33	156	381	298	323	351	433	423	693	413	3590
1935	121	74	19	62	288	389	550	404	341	279	1123	495	4147
1936	35	6	37	56	326	201	324	412	377	310	579	175	2837
1937	132	19	14	44	478	354	302	413	265	535	427	612	3592
1938	50	29	38	162	385	467	419	481	292	338	469	760	3889
1939	18	10	21	37	119	480	153	331	347	382	897	467	3261
1940	139	70	53	29	187	226	226	562	199	442	444	68	2644
1941	107	96	67	30	214	233	371	351	359	681	521	115	3144
1942	58	46	152	186	414	263	257	280	506	676	207	531	3576
1943	48	68	87	149	468	289	236	326	416	333	507	382	3310
1944	76	54	18	256	602	191	259	430	193	557	367	500	3502

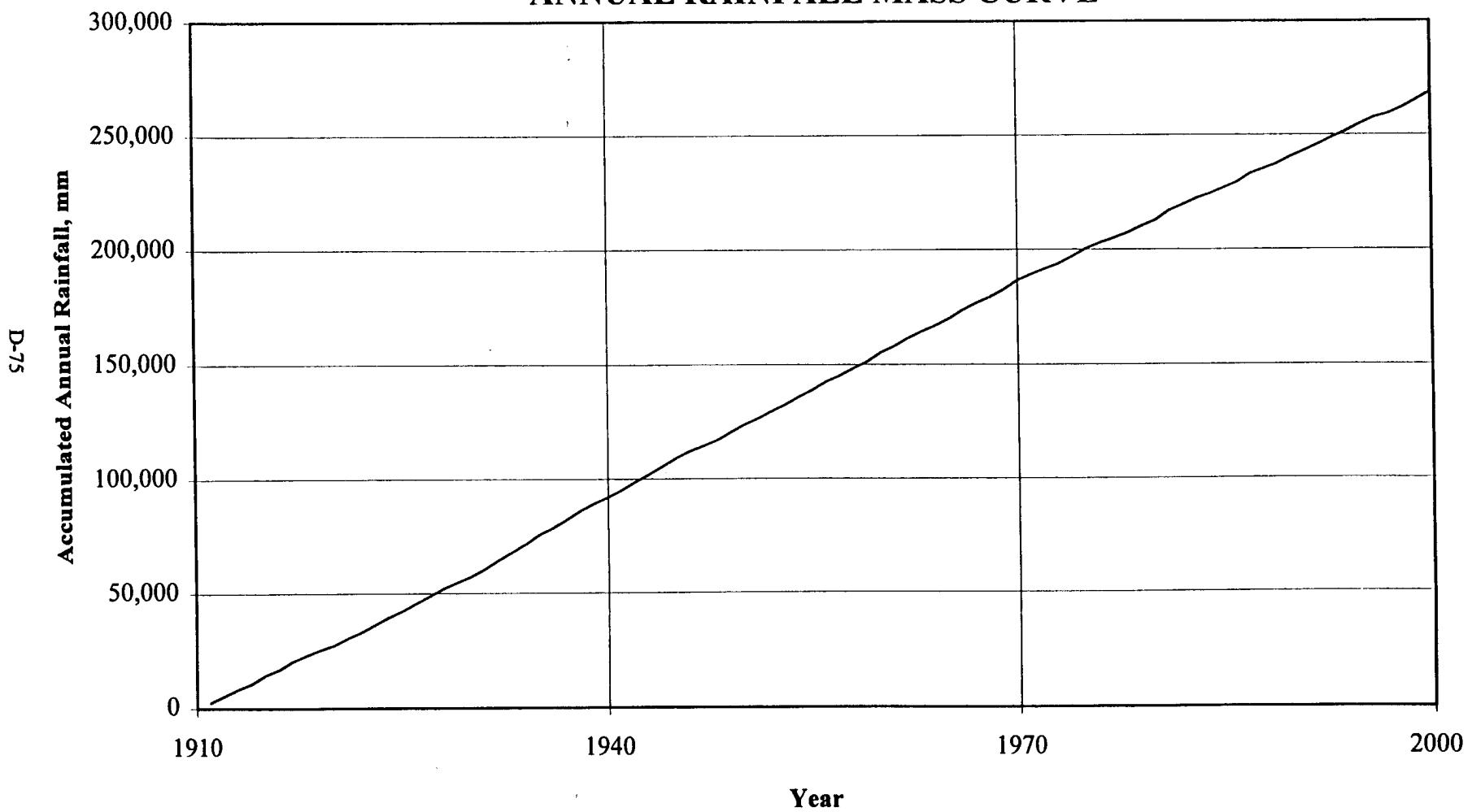
GATUN (GAT)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	73	26	20	39	369	196	388	455	284	437	822	595	3704
1946	69	12	32	36	164	199	325	301	395	415	560	588	3094
1947	21	29	21	144	201	224	349	255	232	272	264	288	2298
1948	75	8	20	155	263	167	357	279	225	380	404	146	2480
1949	33	38	16	62	265	534	270	395	237	452	755	411	3468
1950	33	70	31	91	159	377	354	423	213	202	736	600	3288
1951	22	170	27	239	315	217	203	233	245	449	328	282	2731
1952	109	29	12	229	241	287	384	308	241	476	358	509	3183
1953	139	27	61	152	329	75	492	314	196	497	401	235	2918
1954	50	64	25	90	297	287	322	377	431	327	832	352	3452
1955	294	31	39	18	364	357	177	286	192	328	520	344	2948
1956	311	61	150	84	505	162	476	324	345	553	596	165	3733
1957	33	11	17	6	248	279	230	354	445	254	540	189	2605
1958	209	100	137	122	231	191	591	260	292	423	291	250	3095
1959	59	4	10	106	275	241	292	270	439	199	398	554	2847
1960	103	43	191	293	527	242	407	214	232	485	492	647	3876
1961	26	9	23	169	243	425	207	402	218	518	486	151	2877
1962	107	24	28	41	621	159	455	273	356	291	541	522	3419
1963	182	56	14	119	409	189	364	373	217	259	554	104	2839
1964	21	10	8	80	351	427	460	252	341	284	269	65	2569
1965	142	34	5	43	367	179	124	329	297	610	855	191	3176
1966	57	29	48	179	335	165	418	520	290	398	941	358	3737
1967	37	9	23	125	194	492	466	241	201	352	658	252	3051
1968	15	64	83	22	224	296	330	351	275	627	317	65	2669
1969	82	42	28	53	348	234	405	442	357	369	367	475	3202
1970	290	111	64	271	434	262	421	373	218	399	681	429	3952
1971	135	63	87	17	354	320	276	427	322	272	297	19	2588
1972	254	58	21	304	220	266	130	197	314	434	205	98	2501
1973	46	46	5	58	188	224	183	246	234	295	574	198	2297
1974	13	41	36	64	170	249	523	254	450	424	752	140	3114
1975	25	13	81	23	287	338	323	455	340	429	345	635	3294
1976	58	13	3	173	251	320	315	353	290	323	284	109	2492
1977	43	23	5	107	193	307	147	328	259	386	234	56	2088
1978	8	48	74	310	122	361	269	315	312	221	221	46	2306

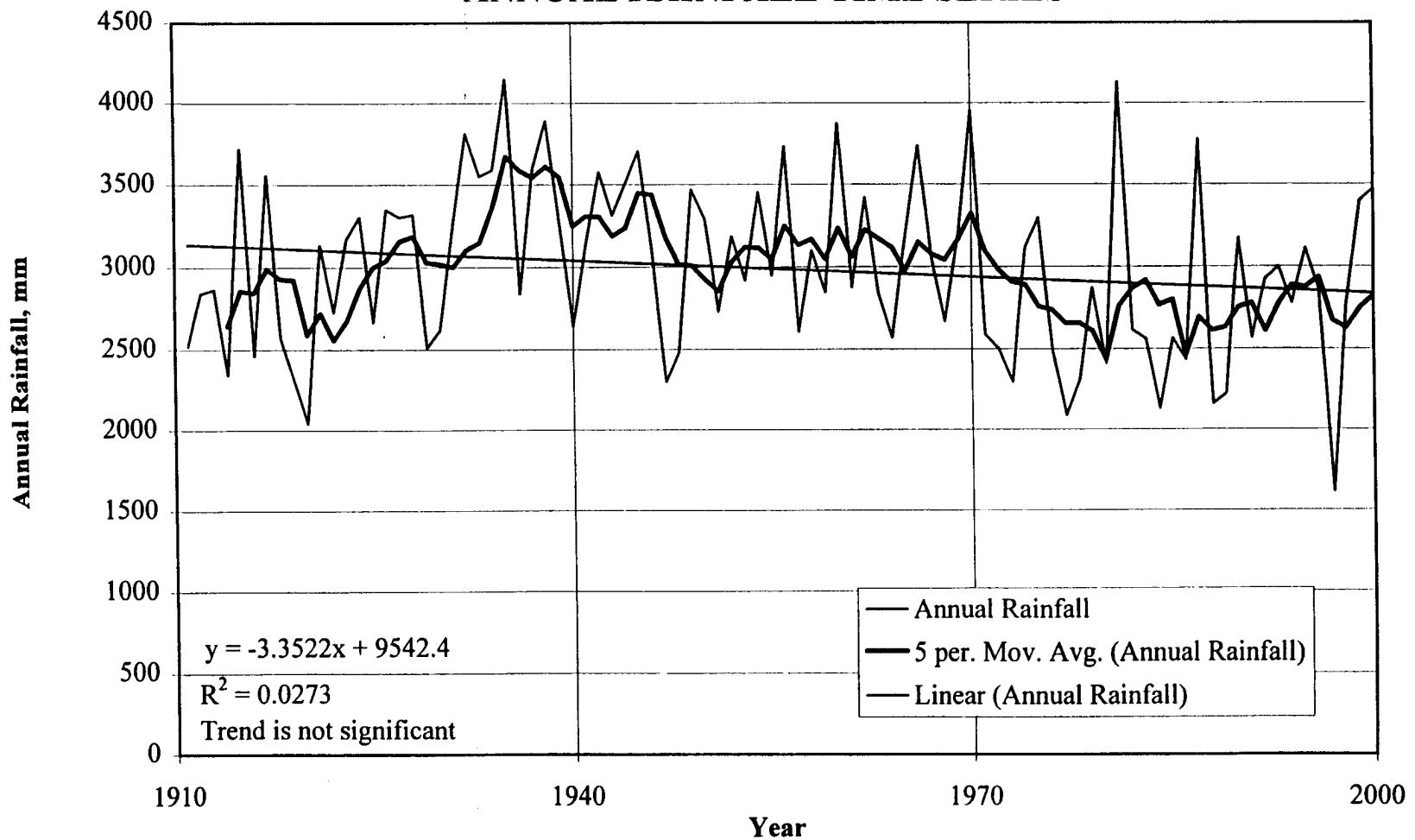
GATUN (GAT)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	15	76	10	262	376	366	264	419	249	307	264	262	2870
1980	173	79	10	61	462	188	196	272	208	239	254	272	2413
1981	201	48	99	351	424	231	361	340	173	340	1077	483	4128
1982	203	53	30	244	180	330	472	229	251	404	191	28	2616
1983	36	5	0	152	386	244	264	282	284	264	231	411	2560
1984	61	53	10	51	297	320	102	257	165	274	414	127	2131
1985	173	33	20	18	226	272	330	257	300	259	340	338	2565
1986	30	36	23	150	203	229	193	439	251	498	239	142	2433
1987	30	46	5	254	526	269	465	447	531	574	361	269	3777
1988	30	79	3	36	163	191	345	155	310	356	310	183	2159
1989	13	53	30	18	119	160	338	320	112	508	424	127	2223
1990	48	3	48	155	345	229	368	302	561	490	292	330	3172
1991	58	20	112	66	424	229	135	254	432	218	574	46	2568
1992	30	5	23	292	513	170	254	356	389	318	340	234	2924
1993	122	48	79	351	163	239	323	274	419	325	394	262	2997
1994	30	20	43	117	386	495	234	516	234	198	381	124	2779
1995	264	13	46	122	312	246	404	257	170	351	536	389	3109
1996	414	140	61	94	254	290	203	218	119	257	612	198	2860
1997	46	15	0	10	241	117	117	160	462	213	216	20	1618
1998	15	41	46	521	292	224	419	272	84	264	224	363	2764
1999	102	53	150	137	262	241	345	511	188	318	399	693	3399
2000	119	23	15	132	406	579	229	241	142	681	183	719	3470
Mean	85	45	40	134	310	286	313	330	284	392	484	283	2987
Max	414	335	191	521	621	579	596	562	561	1010	1185	760	4147
Min	8	3	0	4	67	75	102	126	84	198	183	19	1618
Std	79	43	38	105	112	97	114	96	99	132	227	190	530
Skew	1.8	3.8	1.8	1.1	0.4	0.8	0.2	0.2	0.5	1.4	1.1	0.6	0.1
CV	0.9	1.0	1.0	0.8	0.4	0.3	0.4	0.3	0.3	0.3	0.5	0.7	0.2

GATUN (GAT)
ANNUAL RAINFALL MASS CURVE



GATUN (GAT)
ANNUAL RAINFALL TIME SERIES



GUACHA (GUA)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	73	26	32	151	380	273	294	210	73	406	223	0	2140
1912	0	58	0	152	274	205	309	221	192	383	300	233	2326
1913	245	70	26	94	428	285	204	344	352	263	303	121	2733
1914	20	50	36	96	174	313	50	300	290	382	321	92	2123
1915	83	181	40	421	128	268	318	163	225	259	276	287	2650
1916	35	68	101	70	375	148	262	190	214	350	382	86	2282
1917	54	41	26	292	274	225	327	367	156	302	618	152	2835
1918	148	1	24	171	313	142	145	247	291	453	210	114	2257
1919	52	1	22	128	193	278	153	54	273	400	169	0	1722
1920	0	12	36	60	228	188	242	327	203	530	194	157	2176
1921	20	79	33	227	240	254	228	410	238	283	518	109	2640
1922	113	60	0	106	280	233	163	150	327	369	367	382	2550
1923	83	47	27	13	141	262	163	394	342	766	194	66	2498
1924	43	64	56	175	306	262	252	205	293	253	484	154	2546
1925	115	34	0	221	172	282	282	166	270	408	311	161	2421
1926	21	31	6	30	175	341	295	367	331	307	562	289	2754
1927	70	23	31	230	269	327	256	246	298	221	173	447	2589
1928	17	28	84	96	206	305	174	373	324	233	592	337	2769
1929	63	12	10	22	292	237	118	320	191	206	258	5	1734
1930	103	59	14	155	287	200	323	157	374	340	256	199	2466
1931	84	2	125	60	291	232	317	200	227	328	683	96	2643
1932	17	38	18	153	316	310	222	230	195	334	595	369	2798
1933	71	31	41	61	200	377	218	158	388	223	810	334	2914
1934	114	14	32	227	383	226	277	220	448	364	359	297	2963
1935	105	51	66	116	309	258	504	246	314	146	804	425	3345
1936	42	3	13	53	282	149	154	313	230	276	355	109	1979
1937	62	18	12	150	362	224	202	301	360	303	363	1212	3568
1938	44	9	37	107	237	413	231	350	279	228	247	429	2610
1939	74	0	72	0	154	287	87	234	425	286	689	292	2600
1940	188	15	24	32	179	174	243	338	175	212	161	198	1939
1941	129	68	73	17	198	270	205	294	210	426	370	175	2436
1942	21	42	110	123	272	159	171	350	440	471	94	511	2765
1943	88	58	56	210	355	321	190	307	457	323	444	304	3114
1944	97	37	0	254	416	142	222	393	144	373	409	409	2896

GUACHA (GUA)
MONTHLY RAINFALL IN MM

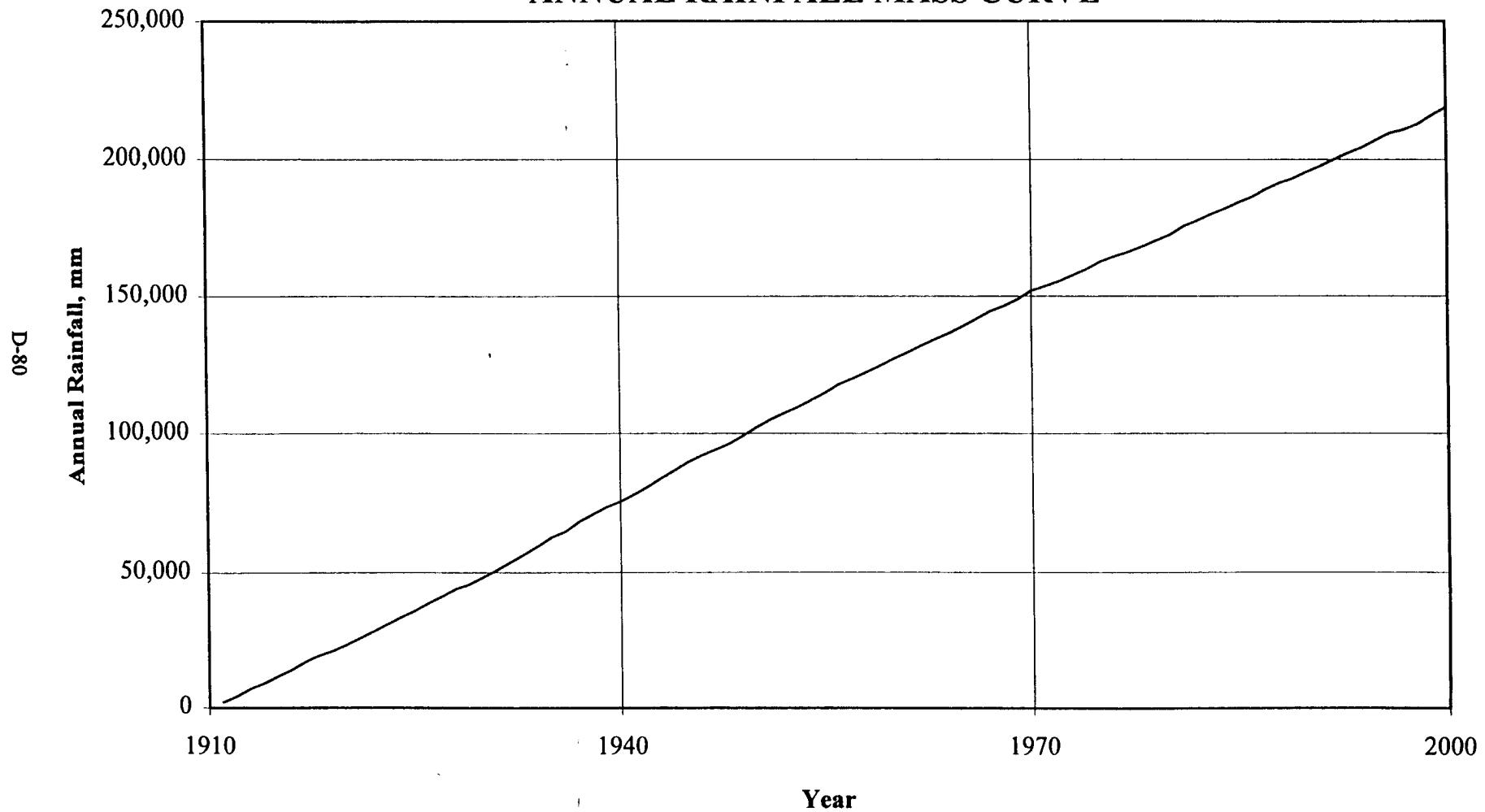
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	17	0	22	139	337	209	228	389	323	333	562	401	2961
1946	80	0	35	57	230	116	269	200	300	315	294	557	2454
1947	19	59	41	148	131	231	139	228	278	350	229	149	2002
1948	51	8	16	110	291	193	277	314	151	342	274	72	2098
1949	110	31	25	82	308	339	239	331	194	344	522	296	2820
1950	64	48	20	93	206	248	369	316	147	275	517	782	3086
1951	119	105	12	349	228	169	174	134	201	377	479	457	2806
1952	157	8	0	119	243	241	208	139	235	386	149	419	2303
1953	123	13	24	42	223	131	307	313	252	415	248	85	2178
1954	27	23	11	209	159	174	312	415	275	342	421	287	2655
1955	343	44	27	84	253	171	103	253	319	235	507	235	2574
1956	222	72	96	209	399	212	323	257	244	537	328	201	3101
1957	32	39	11	39	156	179	140	303	252	237	336	220	1943
1958	132	105	60	88	172	178	384	217	277	339	259	133	2345
1959	0	0	18	95	215	187	156	178	366	157	318	699	2390
1960	76	43	124	225	281	241	159	191	116	285	216	657	2613
1961	30	5	36	216	91	194	194	337	169	471	320	117	2181
1962	80	0	2	120	378	276	301	139	201	228	393	417	2535
1963	251	53	0	121	334	189	236	356	168	228	228	228	2392
1964	64	18	12	151	345	335	235	196	269	237	384	26	2272
1965	175	39	26	47	288	84	81	293	249	408	563	171	2423
1966	71	30	47	136	234	223	227	275	263	187	705	470	2870
1967	124	26	50	94	235	354	238	232	241	305	697	121	2716
1968	4	71	48	14	313	141	86	333	142	435	325	47	1959
1969	53	34	26	67	224	170	354	120	341	330	391	291	2402
1970	249	64	86	108	352	256	239	224	153	329	640	453	3153
1971	102	35	45	9	204	251	287	175	188	180	140	28	1646
1972	211	25	38	150	119	361	61	112	206	376	124	109	1892
1973	15	28	3	102	201	292	173	257	234	330	445	130	2207
1974	13	18	20	66	127	201	376	155	224	391	505	56	2151
1975	13	23	23	25	251	198	264	378	315	465	358	480	2794
1976	43	18	8	236	201	246	152	185	216	262	175	76	1819
1977	20	13	3	18	229	193	114	396	318	160	112	58	1633
1978	79	18	74	234	150	145	251	254	213	213	361	38	2029

GUACHA (GUA)
MONTHLY RAINFALL IN MM

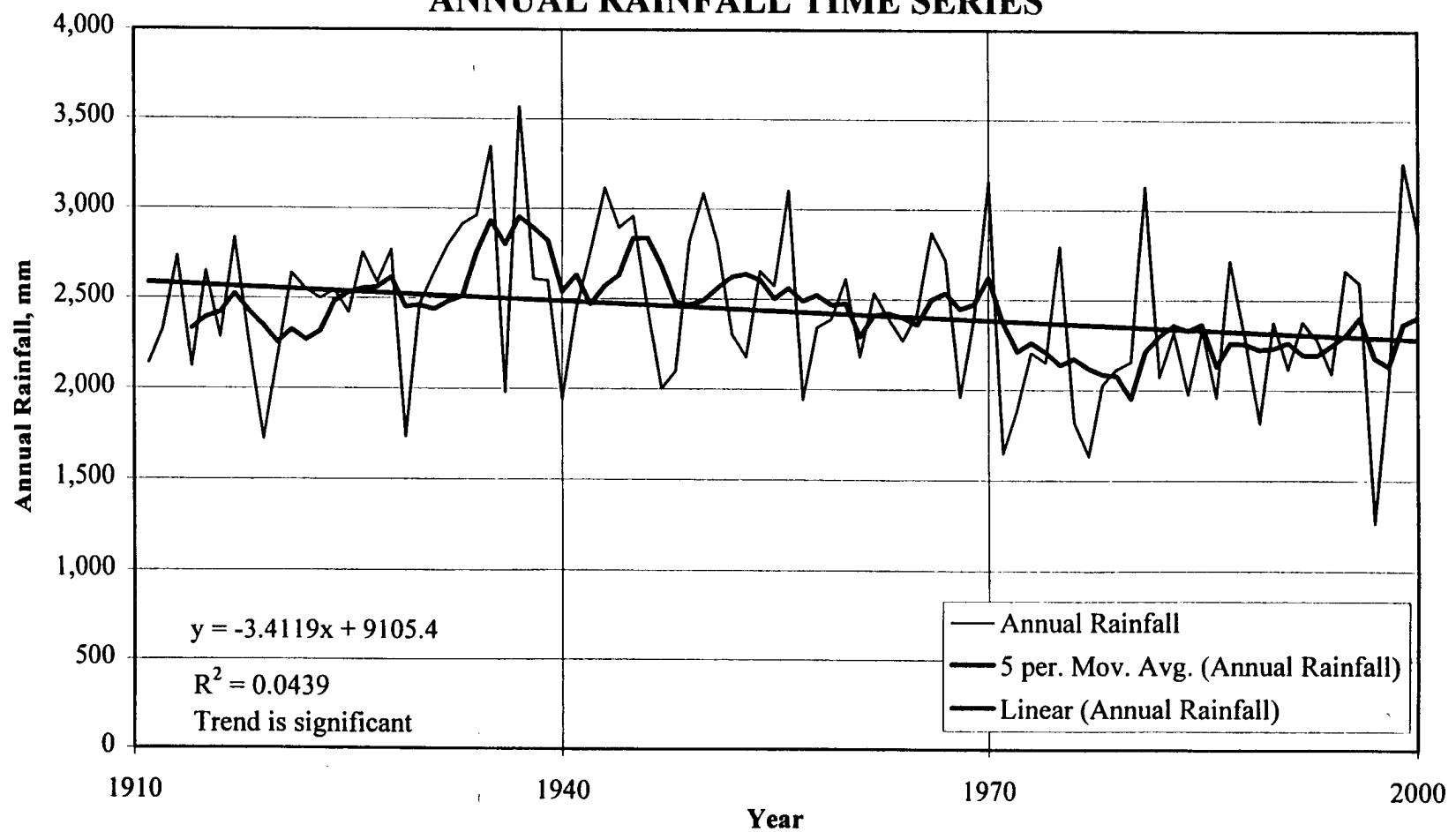
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	10	48	5	201	272	249	193	185	264	226	307	155	2116
1980	163	64	5	91	211	218	274	231	137	244	310	208	2156
1981	201	43	86	351	312	330	269	264	91	203	726	251	3129
1982	173	30	30	137	264	251	269	203	236	338	119	20	2073
1983	30	13	5	152	279	269	211	284	198	325	315	236	2319
1984	48	51	13	58	267	249	97	343	117	241	406	84	1974
1985	130	25	20	13	241	218	302	218	213	320	231	401	2334
1986	43	23	18	208	127	211	188	211	249	424	127	127	1956
1987	41	51	5	236	330	185	307	272	328	389	422	152	2718
1988	18	36	3	46	142	236	203	231	279	508	419	175	2296
1989	46	135	33	81	71	122	124	249	175	373	335	71	1816
1990	20	3	10	18	353	135	310	241	511	290	239	246	2375
1991	51	20	107	33	371	142	229	137	366	198	419	43	2116
1992	15	5	13	262	302	193	231	234	470	191	284	180	2380
1993	43	48	84	206	140	147	236	193	356	310	353	165	2281
1994	36	15	48	114	358	267	155	259	147	155	455	81	2090
1995	211	5	15	107	343	213	325	152	292	244	363	394	2664
1996	318	124	74	107	213	259	229	168	279	290	411	122	2593
1997	30	10	3	51	201	132	124	150	157	180	208	18	1265
1998	15	15	38	272	284	277	246	229	79	165	104	323	2047
1999	91	51	76	137	208	310	297	632	249	284	417	505	3259
2000	74	13	3	71	300	406	216	244	183	478	274	607	2868
Mean	83	36	34	127	253	232	228	256	255	318	365	245	2433
Max	343	181	125	421	428	413	504	632	511	766	810	1212	3568
Min	0	0	0	0	71	84	50	54	73	146	94	0	1265
Std	73	32	31	86	80	69	81	89	90	103	167	201	426
Skew	1.4	1.8	1.2	0.9	0.0	0.4	0.2	0.8	0.5	1.0	0.7	1.7	0.1
CV	0.9	0.9	0.9	0.7	0.3	0.3	0.4	0.3	0.4	0.3	0.5	0.8	0.2

Note : Estimated rainfall in bold values.

GUACHA (GUA)
ANNUAL RAINFALL MASS CURVE



GUACHA (GUA)
ANNUAL RAINFALL TIME SERIES



HODGES HILL (HHI)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	0	15	8	199	302	155	167	155	174	350	141	0	1665
1912	16	22	0	44	179	325	306	248	310	382	263	51	2146
1913	31	16	3	54	259	246	179	317	296	428	268	94	2190
1914	22	0	10	78	310	389	160	211	337	287	380	84	2269
1915	50	51	0	216	294	214	220	268	216	530	241	99	2398
1916	7	40	33	293	316	292	247	293	347	423	255	92	2640
1917	36	15	9	139	231	197	335	342	363	228	424	81	2399
1918	99	11	26	225	250	227	173	195	196	276	108	17	1802
1919	20	6	6	199	208	131	217	227	171	483	211	44	1923
1920	0	0	5	116	204	267	266	181	336	453	264	45	2137
1921	0	82	0	67	229	418	325	298	346	271	211	31	2278
1922	156	27	20	34	399	306	131	362	123	324	250	141	2273
1923	0	0	0	0	266	259	158	245	220	602	261	0	2011
1924	0	24	33	103	351	300	266	415	413	334	378	288	2906
1925	133	0	28	33	203	329	255	363	212	367	217	7	2149
1926	0	1	1	22	145	452	275	307	372	396	331	198	2501
1927	17	17	24	144	301	423	206	159	271	245	180	117	2105
1928	11	11	3	151	312	168	253	332	329	337	396	97	2399
1929	28	7	0	16	256	150	166	329	209	364	249	133	1906
1930	4	9	18	67	229	266	297	379	318	311	225	68	2191
1931	5	6	16	29	261	292	259	238	346	376	440	72	2340
1932	0	12	30	322	213	379	197	329	234	559	315	69	2657
1933	67	15	26	0	227	337	231	254	274	176	292	255	2155
1934	59	0	14	77	343	157	175	330	370	368	331	200	2424
1935	0	52	30	83	315	209	333	252	286	312	568	24	2464
1936	9	15	41	175	185	292	308	301	214	514	172	29	2256
1937	84	0	0	113	227	221	191	370	332	378	336	489	2742
1938	75	0	26	68	419	432	297	424	273	499	384	122	3019
1939	9	5	0	101	134	317	203	192	245	473	411	129	2219
1940	35	11	10	39	142	222	120	197	229	315	331	77	1727
1941	43	32	25	75	207	215	322	242	248	288	152	118	1966
1942	0	7	50	54	368	290	219	113	300	424	269	320	2415
1943	63	0	43	264	374	201	193	222	292	232	325	297	2507
1944	50	0	0	90	192	316	204	575	232	412	217	95	2383

HODGES HILL (HHI)
MONTHLY RAINFALL IN MM

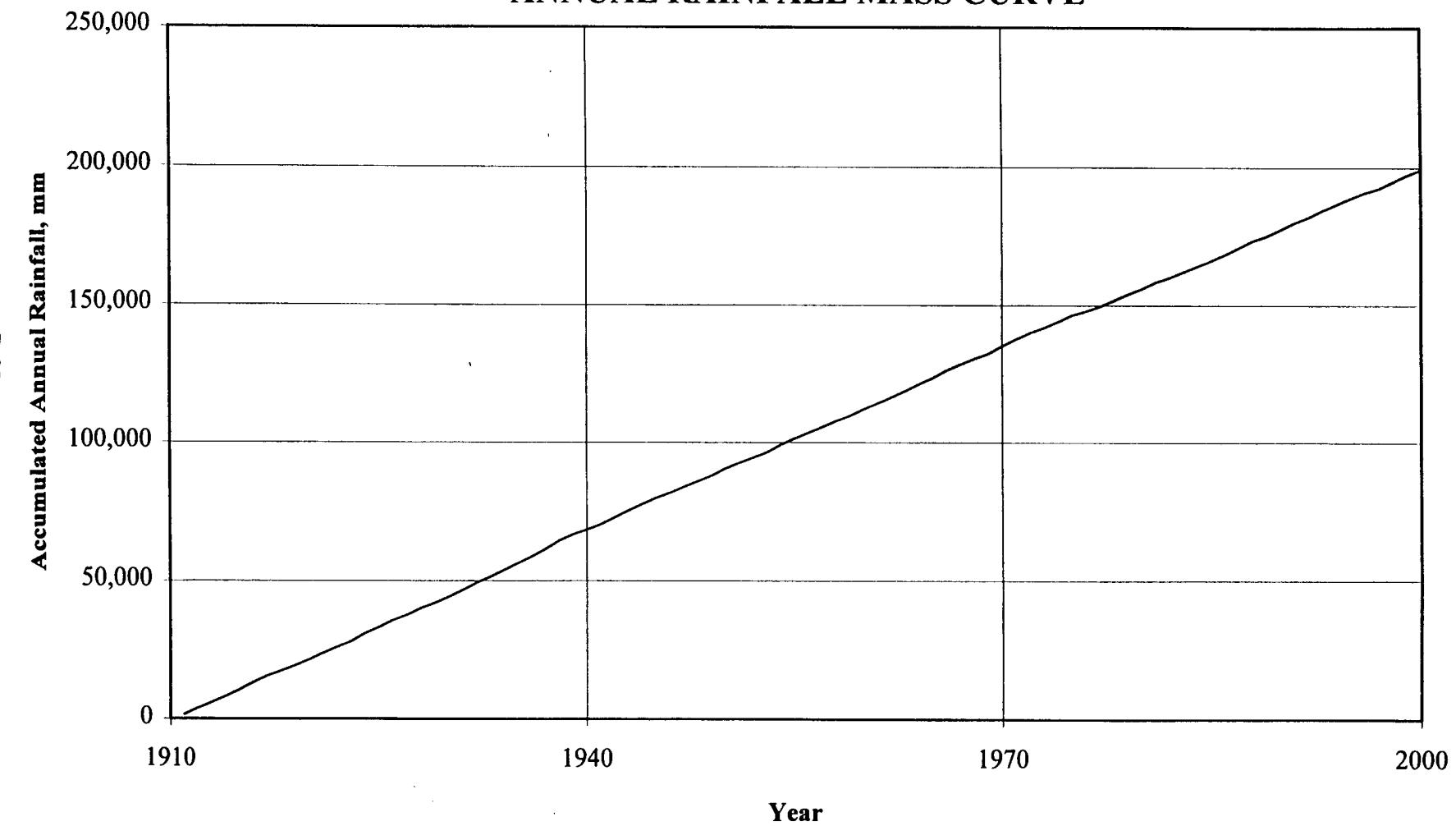
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	15	0	0	120	252	202	250	257	329	392	284	253	2353
1946	21	0	39	24	202	193	245	204	131	332	212	151	1753
1947	14	3	0	107	122	330	205	344	300	461	235	70	2191
1948	44	0	6	18	246	238	230	228	270	276	395	21	1971
1949	28	19	1	43	270	428	233	239	128	427	268	60	2144
1950	18	0	27	61	327	513	349	198	137	276	430	177	2515
1951	69	20	2	76	356	142	252	210	115	248	237	217	1945
1952	0	8	8	244	186	317	116	78	294	483	159	139	2032
1953	77	2	0	44	242	145	228	285	119	368	407	1	1918
1954	23	23	9	50	294	431	273	391	426	341	351	92	2705
1955	137	28	0	68	192	428	192	281	194	264	422	128	2334
1956	107	22	14	15	428	129	277	253	239	304	270	55	2113
1957	23	0	14	43	245	252	242	206	406	406	154	0	1990
1958	76	10	44	40	313	142	185	303	287	499	336	48	2281
1959	0	0	11	3	217	294	141	308	163	375	180	169	1860
1960	59	7	37	52	209	341	269	264	294	419	280	194	2425
1961	23	0	19	45	190	428	241	256	249	322	226	161	2161
1962	8	2	3	95	151	269	161	278	391	384	294	183	2220
1963	85	51	9	112	137	279	231	379	311	354	326	22	2296
1964	0	0	2	242	253	315	284	356	289	353	307	69	2469
1965	4	3	0	41	513	176	253	309	285	330	361	90	2364
1966	77	11	13	172	323	335	274	305	335	298	331	236	2710
1967	16	13	19	80	191	352	291	293	363	351	221	97	2287
1968	43	73	10	8	348	210	222	293	224	333	221	8	1995
1969	9	4	7	18	140	135	176	253	291	439	299	84	1854
1970	138	23	57	124	344	184	244	429	226	357	358	280	2763
1971	194	74	29	92	422	137	257	229	361	368	297	3	2463
1972	117	10	10	279	183	279	163	175	447	368	185	94	2311
1973	5	3	3	23	221	272	272	66	206	345	366	91	1872
1974	0	0	0	33	348	340	236	259	335	457	157	69	2235
1975	0	13	10	15	249	284	290	224	254	498	356	145	2337
1976	8	3	0	48	157	193	119	183	203	345	173	38	1471
1977	8	10	5	10	251	198	218	239	137	373	244	81	1775
1978	28	5	15	140	183	239	231	196	236	394	396	86	2149

HODGES HILL (HHI)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	3	0	3	229	279	251	244	282	127	541	170	79	2207
1980	56	15	0	15	180	333	218	307	221	231	305	86	1969
1981	18	0	41	297	272	422	234	178	246	165	356	145	2372
1982	64	3	0	48	295	117	221	203	328	353	130	3	1763
1983	3	0	5	43	246	241	198	150	315	295	284	191	1971
1984	36	56	5	41	132	259	257	356	318	452	175	10	2095
1985	10	5	13	30	224	442	269	234	305	206	196	84	2017
1986	3	0	89	168	51	338	163	239	279	605	218	15	2167
1987	0	5	10	160	170	340	239	371	409	272	295	150	2421
1988	3	3	5	23	295	368	188	328	269	526	300	152	2459
1989	15	13	5	0	152	241	213	305	132	259	343	109	1788
1990	28	3	8	81	272	122	409	361	264	401	147	157	2253
1991	18	0	25	114	373	295	229	361	457	419	224	86	2601
1992	3	3	0	89	163	518	173	218	249	378	193	76	2062
1993	69	3	13	99	188	472	262	282	376	353	287	127	2530
1994	15	0	64	53	300	249	127	262	231	401	386	13	2101
1995	5	8	10	155	264	381	282	221	142	254	414	25	2162
1996	132	20	28	43	338	168	259	208	193	300	254	107	2050
1997	25	3	0	25	178	127	262	193	244	282	170	3	1511
1998	0	0	3	36	328	290	300	419	211	239	345	307	2477
1999	25	66	13	102	175	368	140	231	404	292	262	249	2327
2000	91	5	3	114	259	284	155	257	287	312	99	165	2032
Mean	36	13	14	92	252	280	231	271	271	364	279	110	2213
Max	194	82	89	322	513	518	409	575	457	605	568	489	3019
Min	0	0	0	0	51	117	116	66	115	165	99	0	1471
Std	42	18	17	77	82	98	57	82	82	92	90	89	295
Skew	1.6	2.2	1.8	1.2	0.5	0.3	0.2	0.5	0.0	0.4	0.3	1.4	0.0
CV	1.2	1.4	1.1	0.8	0.3	0.4	0.2	0.3	0.3	0.3	0.3	0.8	0.1

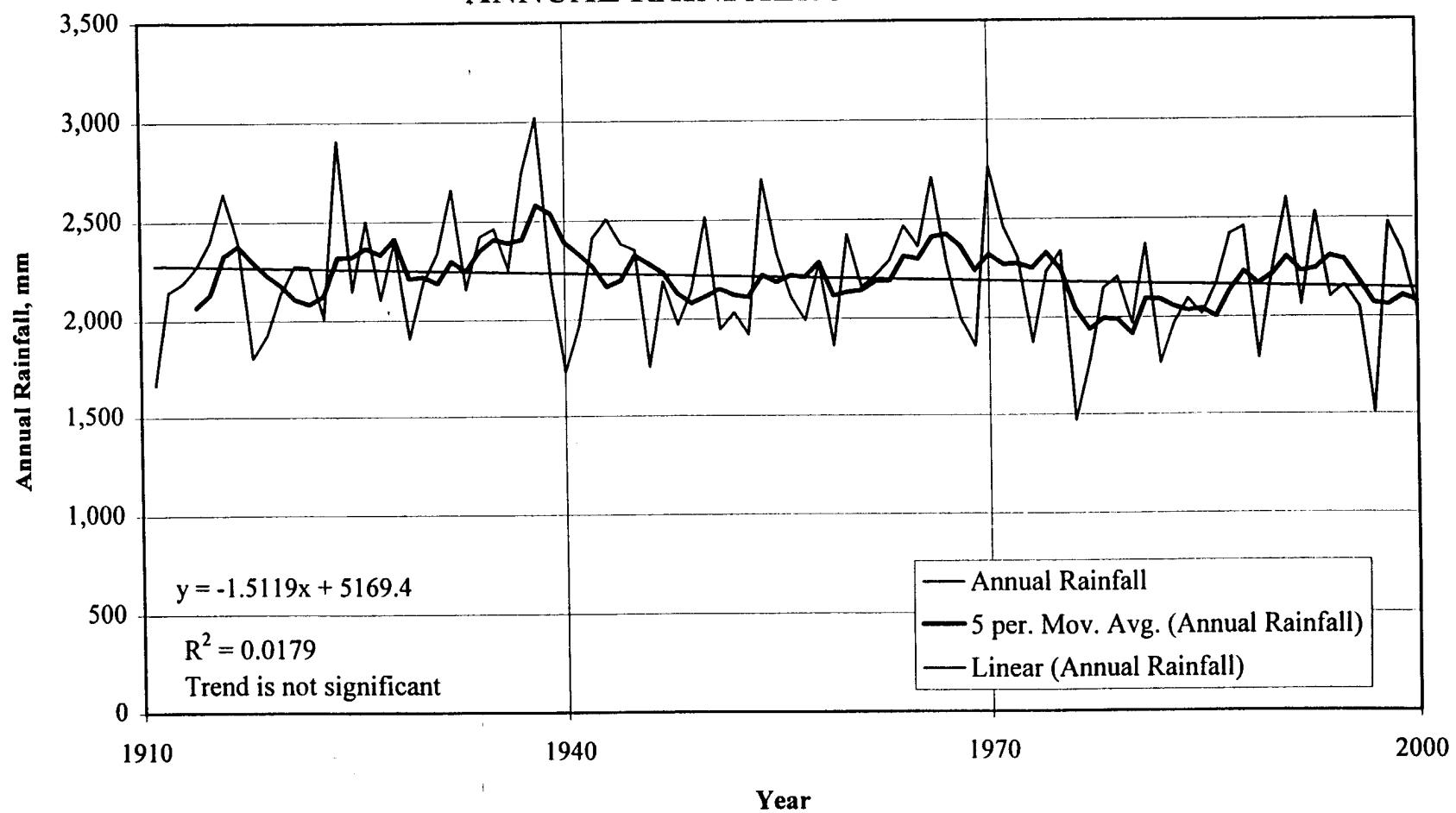
Note : Estimated rainfall in bold values.

HODGES HILL (HHI)
ANNUAL RAINFALL MASS CURVE



HODGES HILL (HHI)
ANNUAL RAINFALL MASS CURVE

98-Q



HUMEDAD (HUM)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	72	53	37	165	351	308	190	186	243	298	284	0	2185
1912	51	52	33	109	295	207	242	152	385	416	559	167	2669
1913	103	48	31	13	401	309	186	399	303	298	404	114	2609
1914	68	10	38	102	342	233	123	191	307	267	524	256	2461
1915	89	172	24	332	228	221	340	285	273	343	216	111	2632
1916	82	59	99	216	294	228	297	205	257	431	373	295	2836
1917	51	50	15	131	272	281	256	390	310	239	853	207	3055
1918	141	13	64	228	295	171	148	260	193	351	290	8	2161
1919	126	42	22	217	242	345	234	183	286	300	179	321	2497
1920	47	29	39	22	225	145	275	156	276	480	276	58	2028
1921	86	60	61	150	192	221	298	435	291	218	303	293	2607
1922	152	30	45	99	367	230	161	184	298	411	260	223	2460
1923	10	67	34	63	284	290	142	238	325	667	287	187	2595
1924	60	49	66	154	186	381	406	172	350	308	526	130	2786
1925	65	18	16	86	126	279	362	161	324	375	396	136	2344
1926	11	32	5	4	150	208	439	352	225	267	389	196	2276
1927	99	48	38	147	374	293	466	346	297	412	496	298	3314
1928	122	37	119	59	264	284	228	317	312	289	431	117	2579
1929	24	51	54	42	247	252	149	267	225	376	207	149	2043
1930	42	3	30	149	218	177	126	196	213	324	211	199	1889
1931	61	33	70	153	278	234	372	199	229	353	407	62	2450
1932	102	46	25	175	343	272	248	201	146	479	433	141	2611
1933	89	9	44	0	187	290	190	64	290	201	459	233	2056
1934	74	40	80	173	277	315	109	214	327	265	242	295	2411
1935	107	70	49	93	314	365	410	220	376	274	561	372	3211
1936	30	28	31	183	283	181	158	323	310	377	364	66	2334
1937	127	19	26	66	358	275	163	157	334	322	384	613	2843
1938	74	12	6	126	441	359	196	317	302	414	375	633	3255
1939	44	34	33	25	173	349	128	255	258	324	641	538	2801
1940	101	33	45	0	160	155	97	207	231	279	200	52	1560
1941	94	83	73	45	185	311	193	350	271	362	294	102	2362
1942	120	49	125	165	282	218	240	273	388	510	272	577	3220
1943	47	78	84	151	494	471	235	218	383	247	556	396	3359
1944	53	69	42	245	449	386	173	329	203	269	390	230	2837

HUMEDAD (HUM)
MONTHLY RAINFALL IN MM

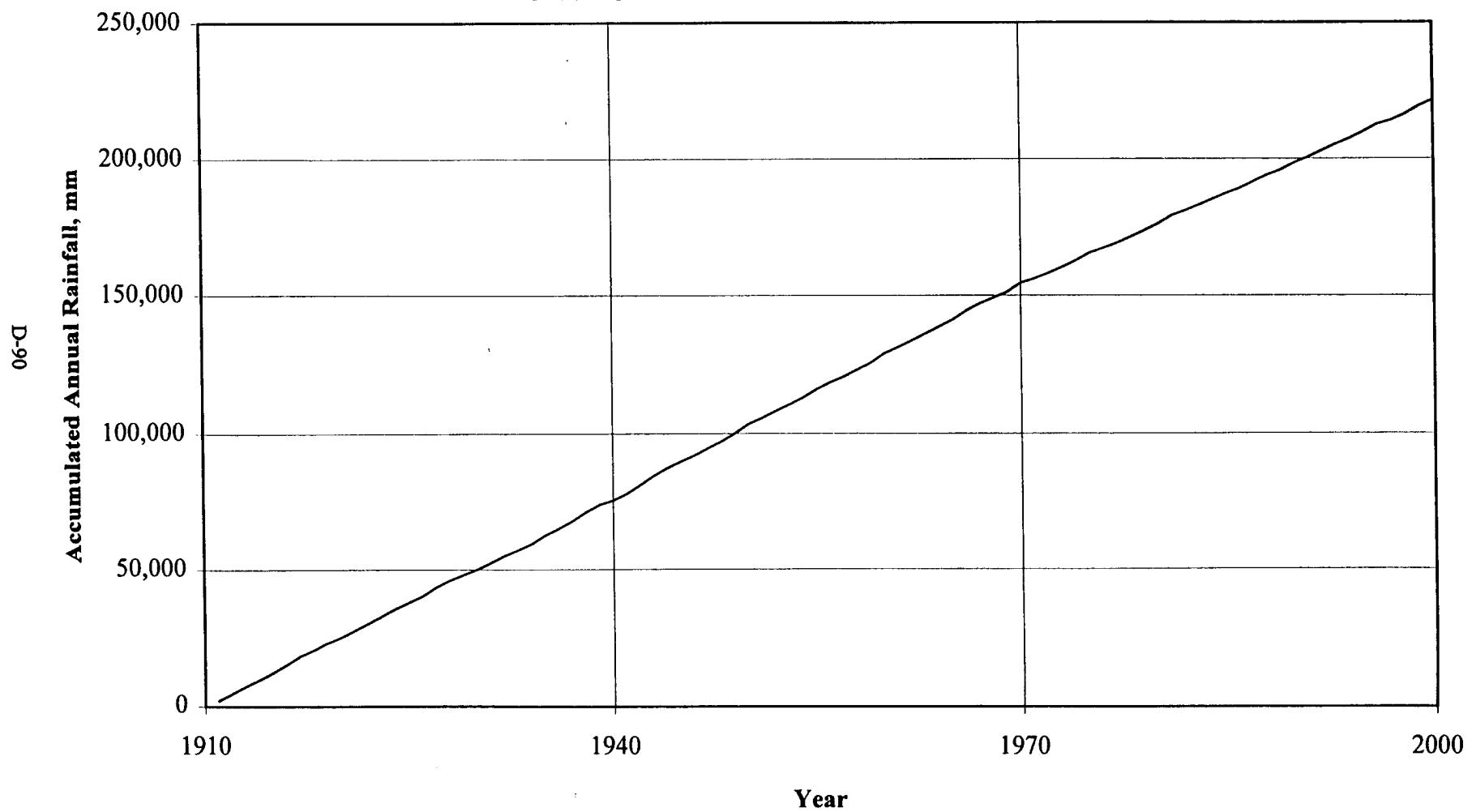
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	49	10	0	108	325	195	207	221	297	313	404	354	2481
1946	48	30	80	47	196	165	189	263	286	367	313	219	2202
1947	45	69	41	116	157	276	247	159	380	549	264	339	2644
1948	72	17	44	86	274	196	262	230	340	208	515	192	2437
1949	34	21	30	89	248	303	339	216	264	457	570	310	2881
1950	85	60	36	144	322	443	220	247	293	330	648	595	3422
1951	88	104	55	242	247	111	228	138	219	310	251	273	2266
1952	99	56	18	171	238	189	208	179	214	404	439	392	2607
1953	241	12	28	39	316	140	221	195	206	376	419	126	2319
1954	52	24	23	78	345	311	260	216	343	273	356	180	2460
1955	282	31	32	45	265	292	91	324	279	381	681	365	3068
1956	150	72	86	95	408	197	316	221	202	356	348	153	2602
1957	38	4	40	56	297	203	212	287	246	271	278	145	2076
1958	85	54	94	139	201	256	342	209	265	386	205	188	2424
1959	54	19	3	123	287	248	202	291	280	205	370	509	2591
1960	160	57	142	438	290	330	229	210	258	340	345	480	3278
1961	20	11	10	72	208	279	205	243	292	250	379	287	2256
1962	68	28	18	110	241	327	227	213	295	221	216	404	2370
1963	107	43	24	141	256	469	273	374	269	220	242	141	2560
1964	11	25	24	188	313	334	230	241	276	237	531	53	2461
1965	141	33	70	28	199	224	196	318	333	414	520	51	2527
1966	59	34	40	152	258	351	307	327	195	310	649	587	3270
1967	27	37	16	234	187	494	165	237	248	284	554	134	2618
1968	2	114	48	21	337	277	199	215	202	283	209	82	1990
1969	105	72	10	76	221	159	263	118	247	292	239	313	2117
1970	171	40	76	99	316	293	289	267	249	284	688	493	3264
1971	66	83	85	1	124	155	102	315	193	221	216	8	1569
1972	91	8	58	254	183	193	91	137	325	297	239	157	2035
1973	30	41	5	71	208	292	163	251	295	300	434	124	2215
1974	30	15	41	38	358	170	211	234	208	406	589	104	2405
1975	5	28	18	10	295	399	193	353	173	465	378	472	2789
1976	46	38	3	109	188	119	91	152	356	335	137	122	1697
1977	20	28	3	0	160	132	142	302	279	353	292	76	1788
1978	81	23	117	297	224	315	292	183	363	226	236	33	2390

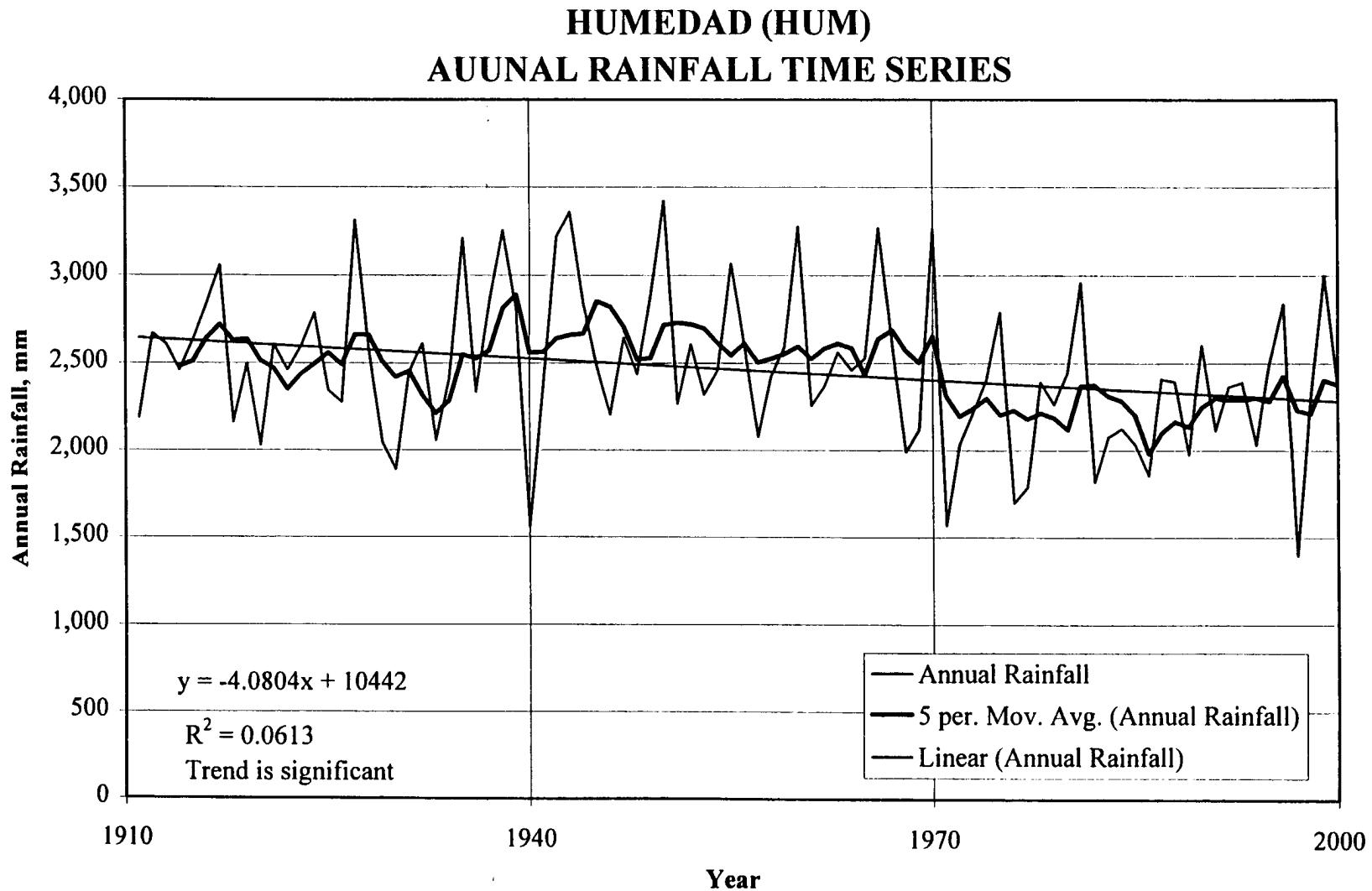
HUMEDAD (HUM)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	13	53	8	290	335	203	221	196	284	226	292	142	2263
1980	196	76	3	46	455	282	282	231	168	218	297	191	2443
1981	165	53	43	274	302	389	340	348	147	175	429	290	2957
1982	175	41	33	69	183	213	140	163	239	429	117	18	1819
1983	43	8	48	71	254	279	142	208	279	282	206	254	2075
1984	91	38	25	76	269	165	165	249	333	318	335	58	2123
1985	122	30	13	5	272	269	193	305	229	191	178	229	2035
..	41	3	20	249	178	216	142	165	226	368	188	61	1857
1987	38	36	3	145	259	173	254	307	361	404	244	188	2410
1988	8	30	0	38	241	290	165	505	333	297	389	99	2395
1989	0	0	18	58	132	81	175	251	198	457	427	178	1976
1990	46	5	41	112	300	216	249	196	386	457	323	272	2601
1991	36	33	132	28	422	277	224	99	292	208	310	53	2113
1992	38	18	10	193	356	310	196	262	226	231	351	175	2365
1993	51	18	135	145	198	297	178	193	353	325	330	168	2390
1994	61	13	69	76	318	226	124	224	279	183	396	64	2032
1995	135	13	23	163	348	297	264	264	185	140	300	366	2497
1996	384	94	91	36	333	224	213	185	320	333	330	295	2837
1997	23	38	8	23	180	104	173	198	221	109	305	15	1397
1998	18	5	46	208	279	300	274	132	175	274	231	343	2286
1999	61	53	132	160	165	211	193	287	419	229	480	610	3000
2000	114	36	10	112	185	452	157	160	130	378	175	460	2370
Mean	79	40	44	118	269	262	221	240	274	321	365	231	2463
Max	384	172	142	438	494	494	466	505	419	667	853	633	3422
Min	0	0	0	0	124	81	91	64	130	109	117	0	1397
Std	62	28	35	85	80	86	79	77	63	94	143	162	431
Skew	2.0	1.6	1.1	1.0	0.4	0.4	0.8	0.7	0.0	0.6	0.8	0.8	0.2
CV	0.8	0.7	0.8	0.7	0.3	0.3	0.4	0.3	0.2	0.3	0.4	0.7	0.2

Note : Estimated rainfall in bold values.

HUMEDO (HUM)
ANNUAL RAINFALL MASS CURVE





LIMON BAY (LMB)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	25	46	36	78	435	396	370	295	295	420	402	67	2864
1912	7	46	17	19	306	404	334	251	311	448	554	291	2987
1913	170	44	20	68	574	300	384	455	251	473	425	166	3333
1914	34	34	23	105	451	414	273	407	376	563	466	226	3371
1915	87	314	43	265	197	407	526	327	352	555	567	240	3880
1916	59	50	68	159	238	363	265	212	264	447	358	145	2628
1917	28	11	19	48	308	365	345	401	449	200	520	296	2990
1918	83	17	10	136	489	217	263	479	390	688	361	48	3182
1919	46	9	15	278	177	307	345	172	298	557	168	187	2561
1920	13	14	27	44	139	338	447	585	173	436	540	52	2808
1921	33	41	25	189	346	386	266	469	285	210	507	165	2922
1922	174	18	23	54	226	211	112	369	323	352	397	183	2442
1923	50	18	9	31	284	385	262	390	313	1071	563	130	3506
1924	15	71	18	276	377	419	524	188	229	548	769	225	3659
1925	93	19	8	139	209	350	535	196	208	419	583	153	2911
1926	18	45	11	9	349	793	410	529	265	389	747	193	3758
1927	117	82	32	176	358	349	473	676	440	333	720	424	4181
1928	43	18	61	22	323	412	261	622	393	458	437	417	3468
1929	21	14	66	17	256	482	474	604	201	349	228	200	2911
1930	62	19	27	174	361	239	228	364	276	184	430	200	2566
1931	51	25	114	109	450	235	339	445	209	519	770	88	3354
1932	37	24	68	57	420	365	443	307	182	425	943	194	3466
1933	53	2	28	9	206	403	251	210	231	504	1094	469	3461
1934	100	14	28	139	303	251	51	352	541	444	732	398	3353
1935	148	79	20	48	436	413	666	374	541	226	1085	331	4367
1936	39	3	22	84	327	268	475	350	370	289	587	90	2904
1937	107	12	8	42	533	684	241	337	358	421	590	837	4169
1938	58	28	43	159	324	457	565	567	267	438	480	744	4130
1939	12	13	16	25	160	320	169	296	430	445	894	434	3214
1940	68	46	16	46	279	366	404	484	350	414	531	108	3112
1941	83	73	58	9	228	293	531	431	502	639	611	155	3612
1942	39	18	84	212	227	472	441	273	549	804	320	603	4041
1943	55	66	29	100	413	309	265	508	267	260	551	383	3206
1944	31	75	5	227	646	160	300	467	112	512	417	568	3520
1945	48	22	11	48	207	168	503	449	294	466	617	523	3356

LIMON BAY (LMB)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1946	53	19	20	14	137	245	313	337	359	390	649	678	3214
1947	9	45	9	170	184	238	323	434	369	450	316	313	2860
1948	21	4	31	40	185	237	402	293	288	384	569	110	2563
1949	22	8	12	53	285	323	320	396	245	450	931	403	3449
1950	22	101	55	108	184	352	437	426	260	349	994	502	3790
1951	23	143	15	215	281	275	326	329	258	486	270	283	2905
1952	83	24	1	177	399	460	530	516	248	536	527	507	4008
1953	174	51	44	60	215	151	456	294	312	468	556	231	3012
1954	35	44	17	109	316	384	438	494	271	248	699	265	3319
1955	284	45	34	11	341	277	243	341	80	355	608	361	2980
1956	260	36	113	61	464	247	629	377	297	398	755	170	3808
1957	27	10	12	2	156	302	282	538	292	213	710	178	2721
1958	170	85	142	130	167	199	483	324	400	664	370	194	3329
1959	80	1	10	101	353	236	391	284	542	260	405	562	3224
1960	69	15	120	264	614	321	277	279	214	490	814	741	4219
1961	17	6	19	58	240	257	253	263	328	392	557	228	2617
1962	58	15	18	57	585	168	618	457	334	296	644	453	3704
1963	179	162	10	58	336	346	227	348	285	161	577	89	2777
1964	19	17	14	86	239	447	474	478	345	299	365	52	2833
1965	122	36	2	56	307	233	249	516	359	602	655	194	3331
1966	28	14	67	165	392	86	352	515	339	378	891	353	3580
1967	24	11	13	75	197	459	420	217	304	479	702	265	3164
1968	5	40	63	13	226	295	495	347	380	328	340	88	2620
1969	65	26	52	31	516	145	354	513	466	280	402	390	3239
1970	234	53	44	375	535	247	499	305	341	300	818	474	4224
1971	188	42	74	8	253	556	253	399	386	330	366	28	2883
1972	302	61	15	340	175	381	218	320	257	559	203	157	2990
1973	76	3	5	28	267	277	447	384	366	345	419	203	2819
1974	10	13	10	20	198	617	470	244	137	594	876	127	3317
1975	5	25	43	10	107	371	292	455	284	572	325	518	3007
1976	28	15	5	122	168	389	135	366	229	528	310	33	2327
1977	25	18	3	48	356	312	206	564	295	541	602	107	3076
1978	46	36	43	292	135	523	213	356	208	498	272	56	2677
1979	8	20	0	343	432	437	325	300	292	295	236	0	2688
1980	53	54	35	0	446	150	143	335	335	417	300	333	2601

LIMON BAY (LMB)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1981	64	5	58	361	533	439	381	523	142	561	955	361	4384
1982	290	36	15	165	142	259	358	201	310	401	201	13	2390
1983	28	3	3	150	229	320	140	424	472	409	445	582	3203
1984	58	36	18	41	310	508	229	282	323	343	467	124	2738
1985	69	13	10	18	439	394	267	498	180	572	480	300	3238
1986	13	15	15	112	262	511	188	373	267	272	218	91	2337
1987	20	20	10	277	582	221	411	556	498	673	427	353	4049
1988	0	51	3	18	211	414	498	284	315	391	396	185	2766
1989	8	36	8	15	206	165	361	356	221	729	470	117	2690
1990	43	3	33	71	345	292	363	462	526	460	310	246	3155
1991	5	8	18	112	328	183	213	264	612	302	640	71	2756
1992	5	13	5	259	399	300	511	467	287	457	287	310	3299
1993	61	20	30	279	142	373	269	432	419	295	470	363	3155
1994	38	8	28	38	305	516	284	343	419	211	381	130	2700
1995	30	28	10	112	475	513	371	224	323	318	546	518	3467
1996	299	142	60	127	277	348	236	275	203	425	410	459	3261
1997	36	5	3	56	267	193	193	305	460	198	371	15	2101
1998	0	25	8	431	397	320	284	345	208	424	249	401	3093
1999	74	30	84	76	386	267	500	467	193	282	378	625	3363
2000	84	0	0	3	58	574	145	323	229	533	203	620	2771
Mean	68	36	30	111	314	342	349	384	318	428	526	283	3189
Max	302	314	142	431	646	793	666	676	612	1071	1094	837	4384
Min	0	0	0	0	58	86	51	172	80	161	168	0	2101
Std	72	43	29	101	129	125	128	111	106	148	214	193	508
Skew	1.9	3.8	1.7	1.2	0.5	0.8	0.2	0.3	0.5	1.0	0.7	0.7	0.5
CV	1.1	1.2	1.0	0.9	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.7	0.2

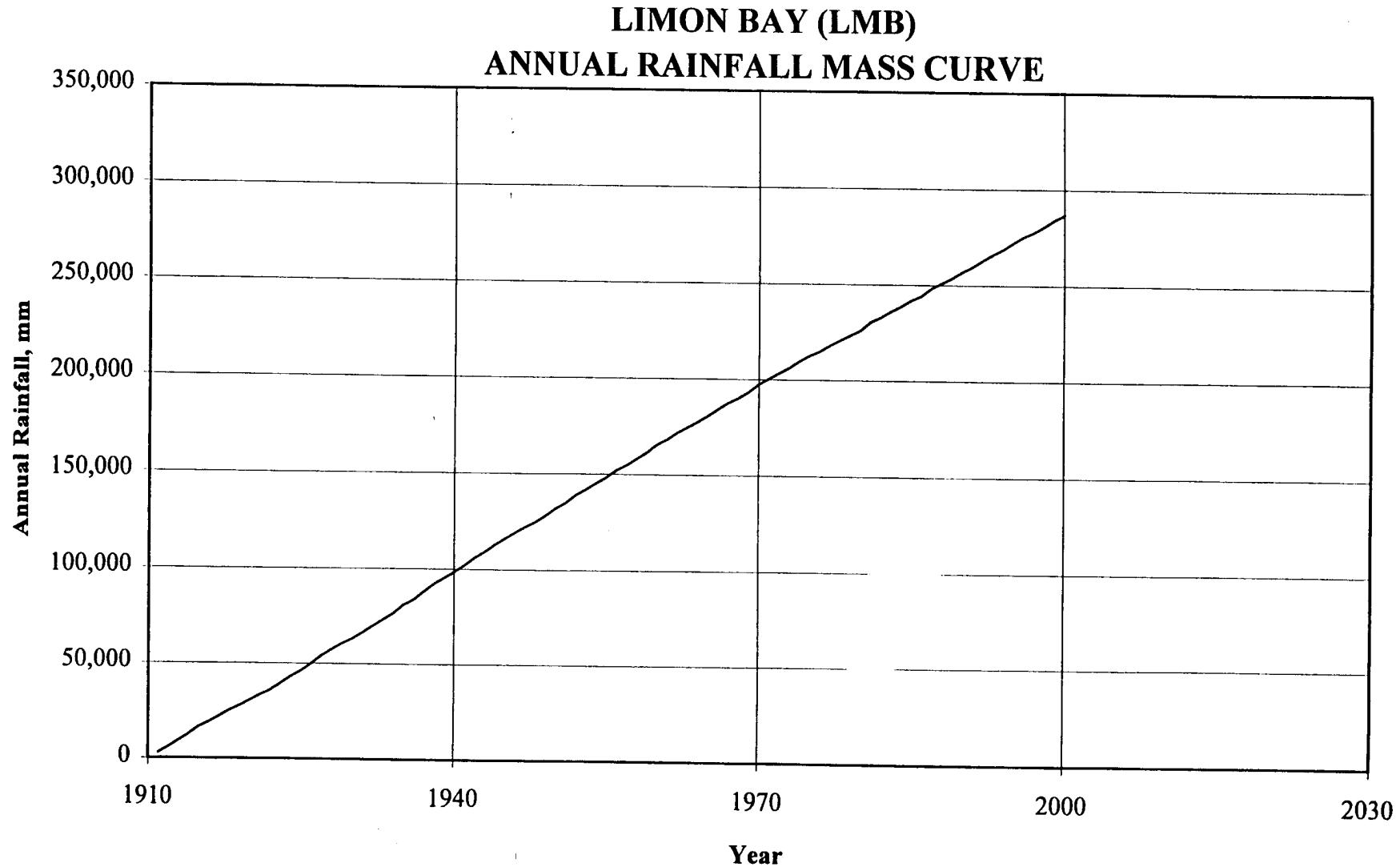
Note : 1. Estimated rainfall in bold values.

2. Period:

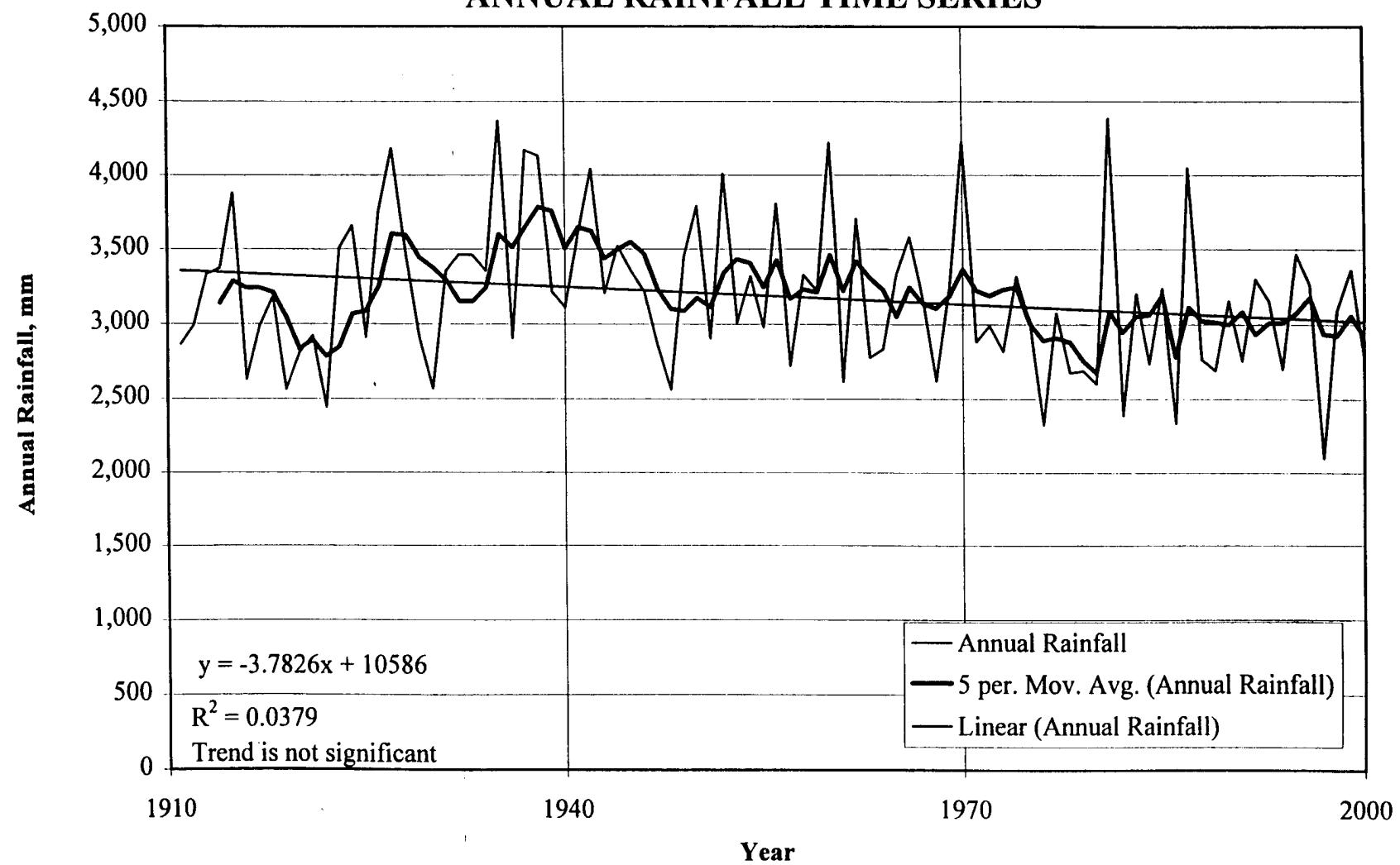
January 1911 to September 1979 - Cristobal Station

September 1980 to December 1995 - Coco Solo Station

January 1997 to December 2000 - Limon Bay Station



LIMON BAY (LMB)
ANNUAL RAINFALL TIME SERIES



MONTE LIRIO (MLR)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	23	61	36	134	500	290	269	243	284	469	509	58	2877
1912	54	84	6	33	212	343	295	207	239	538	415	133	2559
1913	91	64	15	90	414	272	221	265	359	378	382	183	2733
1914	21	39	30	113	290	370	90	428	391	462	364	128	2724
1915	65	167	19	310	284	264	400	317	378	452	616	258	3528
1916	19	66	68	120	214	300	245	267	251	439	468	165	2621
1917	17	14	19	97	286	368	354	326	358	255	687	253	3034
1918	100	19	34	107	369	240	199	300	307	599	390	26	2690
1919	102	29	15	296	132	207	238	258	393	402	231	196	2501
1920	9	18	20	2	161	200	346	362	232	465	264	84	2163
1921	84	74	7	168	248	387	394	391	399	236	565	225	3179
1922	170	34	5	36	312	253	144	177	350	421	274	146	2322
1923	22	12	20	39	232	262	173	357	246	1072	553	55	3045
1924	18	118	34	317	284	346	371	225	433	376	578	190	3290
1925	50	45	16	102	103	258	361	184	341	595	423	106	2585
1926	9	52	27	14	265	679	463	506	210	442	681	297	3646
1927	103	32	97	234	446	398	445	419	316	308	645	297	3741
1928	55	44	83	22	226	353	204	560	350	341	478	383	3100
1929	19	15	106	66	230	370	216	520	133	393	399	152	2621
1930	59	15	12	108	391	165	196	197	227	142	496	207	2216
1931	37	35	196	100	368	352	411	257	215	294	696	34	2996
1932	38	23	58	64	320	306	315	250	148	327	1008	344	3200
1933	31	6	27	1	243	325	190	215	264	211	888	440	2843
1934	51	24	67	197	390	155	246	414	483	421	530	434	3414
1935	72	84	15	109	266	238	560	340	326	257	1054	529	3850
1936	34	4	26	45	246	160	226	467	342	508	356	117	2530
1937	79	6	14	48	339	261	271	318	325	559	540	641	3401
1938	37	21	30	67	377	439	391	446	263	333	283	555	3243
1939	9	3	10	30	119	313	273	246	415	430	829	286	2963
1940	122	56	37	15	184	239	250	458	279	373	456	85	2553
1941	66	74	56	87	189	339	319	386	373	604	422	76	2989
1942	66	29	121	160	306	342	276	213	356	586	249	660	3364
1943	28	61	47	17	522	392	165	271	340	318	485	311	2959
1944	51	38	8	184	371	278	243	541	150	590	281	398	3132

MONTE LIRIO (MLR)
MONTHLY RAINFALL IN MM

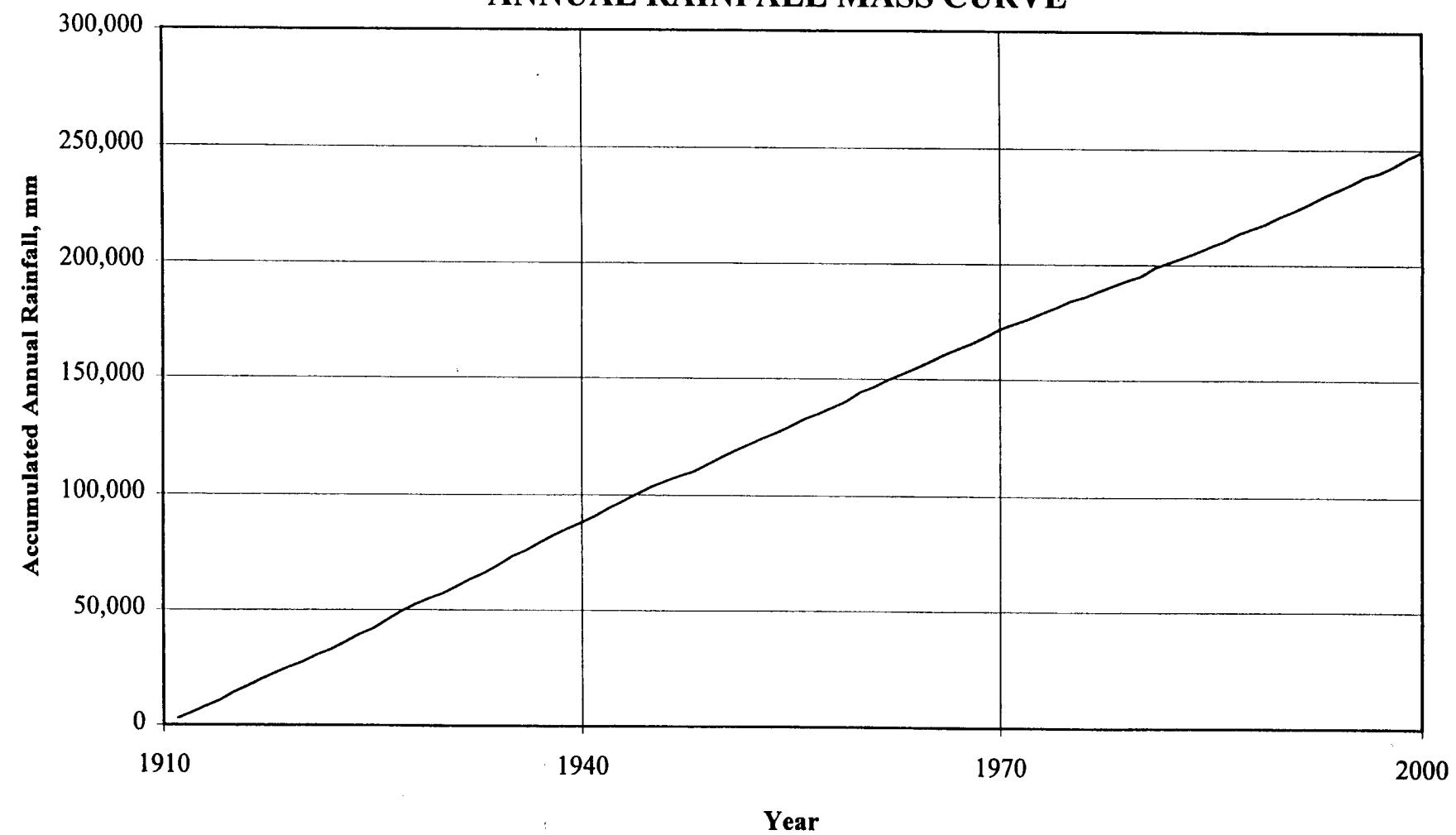
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
1945	56	8	17	30	298	185	163	307	300	300	588	711	2963
1946	17	28	49	22	336	96	327	235	296	222	435	362	2424
1947	0	58	38	74	179	334	329	299	261	280	198	175	2225
1948	62	6	7	11	186	119	248	283	237	247	341	86	1834
1949	5	1	0	7	250	472	269	257	165	480	835	302	3043
1950	9	57	29	71	138	362	379	299	172	343	682	528	3071
1951	49	117	18	242	318	225	221	190	234	502	443	305	2863
1952	67	15	8	137	354	229	285	288	254	394	241	558	2831
1953	148	12	48	81	210	110	458	362	111	513	425	164	2641
1954	25	33	19	53	220	289	329	254	236	257	489	195	2397
1955	222	19	9	21	308	296	212	307	235	313	541	346	2830
1956	168	38	82	71	391	126	448	353	314	519	428	75	3012
1957	11	15	5	4	160	315	166	551	337	243	438	172	2415
1958	106	187	59	186	215	245	285	219	243	399	215	246	2605
1959	29	5	5	122	201	229	286	340	369	179	231	762	2757
1960	62	37	188	313	448	410	385	138	210	655	469	564	3879
1961	21	1	4	104	98	453	184	378	251	437	310	133	2374
1962	57	23	12	92	470	243	379	287	310	272	392	337	2872
1963	159	55	61	127	233	262	360	411	188	303	289	64	2512
1964	0	0	0	61	321	290	295	392	290	421	384	89	2543
1965	84	4	37	51	226	201	186	260	284	499	769	182	2784
1966	72	42	28	135	310	161	276	379	255	261	661	455	3035
1967	0	14	20	71	192	347	367	213	163	440	560	130	2517
1968	1	37	82	8	267	236	154	434	326	518	289	74	2425
1969	46	5	19	43	356	146	432	286	484	318	312	446	2893
1970	276	53	40	192	374	178	336	369	259	312	531	417	3336
1971	126	13	111	5	378	279	249	434	188	155	305	20	2264
1972	300	38	5	147	155	170	122	206	264	376	216	168	2167
1973	102	13	0	20	109	244	345	312	358	340	594	170	2609
1974	0	18	20	30	142	279	378	229	325	536	394	117	2469
1975	3	25	33	8	221	254	239	439	406	460	302	495	2885
1976	30	5	0	64	206	267	142	236	251	310	244	10	1765
1977	23	0	10	33	170	206	145	511	224	493	511	107	2431
1978	36	25	102	249	165	396	335	340	196	315	310	38	2507

MONTE LIRIO (MLR)
MONTHLY RAINFALL IN MM

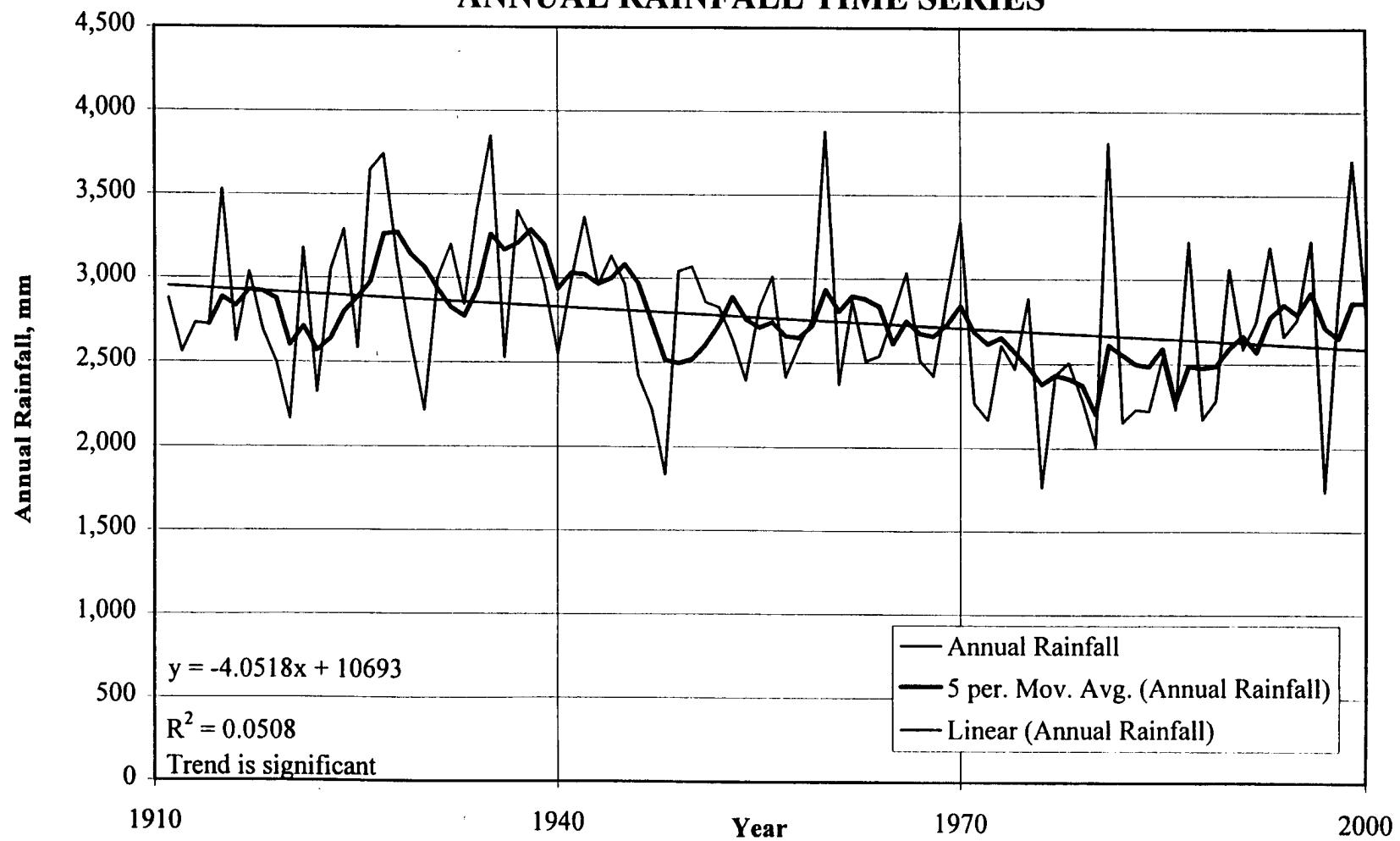
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	3	18	5	173	320	269	244	307	203	262	330	152	2286
1980	122	56	5	30	356	150	216	229	135	272	249	196	2014
1981	282	23	114	259	470	323	234	333	180	249	968	378	3813
1982	193	48	20	185	241	152	211	117	302	417	183	84	2154
1983	15	0	0	127	277	231	170	198	269	315	292	335	2230
1984	56	66	5	23	295	229	160	378	201	307	462	38	2220
1985	69	56	36	20	338	198	279	300	239	363	221	414	2532
1986	61	15	46	117	112	292	188	368	262	457	224	89	2230
1987	15	38	3	348	452	191	345	376	404	531	274	246	3223
1988	3	33	5	33	142	178	193	282	368	417	358	160	2172
1989	10	25	8	18	239	168	330	300	135	516	467	69	2283
1990	23	8	53	157	284	241	300	272	566	599	249	307	3061
1991	20	30	130	41	272	226	391	201	450	165	599	64	2588
1992	15	8	10	208	437	269	310	292	376	323	333	170	2751
1993	117	30	127	295	229	239	249	358	554	330	406	257	3190
1994	76	10	99	109	328	500	267	378	226	239	401	30	2664
1995	277	25	15	94	254	348	338	196	178	196	526	318	2764
1996	445	114	89	76	312	396	208	272	239	272	676	127	3226
1997	38	23	0	5	244	229	224	282	231	254	191	18	1737
1998	15	43	30	320	307	267	348	338	221	351	277	356	2873
1999	99	64	152	180	300	351	287	531	208	259	579	699	3708
2000	86	20	8	132	236	320	259	257	122	544	216	564	2764
Mean	69	36	39	104	277	276	280	319	284	387	448	250	2770
Max	445	187	196	348	522	679	560	560	566	1072	1054	762	3879
Min	0	0	0	1	98	96	90	117	111	142	183	10	1737
Std	78	34	43	89	97	96	91	98	94	141	193	184	470
Skew	2.3	2.1	1.7	1.0	0.3	0.9	0.4	0.6	0.6	1.3	1.0	0.9	0.3
CV	1.1	0.9	1.1	0.9	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.7	0.2

Note : Estimated rainfall in bold values.

MONTE LIRIO (MLR)
ANNUAL RAINFALL MASS CURVE



MONTE LIRIO (MLR)
ANNUAL RAINFALL TIME SERIES



PELUCA (PEL)
MONTHLY RAINFALL IN MM

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1911	78	13	40	109	409	355	108	211	242	411	302	128	2405
1912	43	55	0	62	246	194	204	358	269	448	476	315	2671
1913	148	55	27	17	441	339	282	362	283	317	364	70	2704
1914	42	38	64	90	168	414	110	295	412	461	420	216	2729
1915	5	187	9	327	309	521	465	229	246	285	492	548	3623
1916	59	77	37	242	305	262	503	309	314	426	306	320	3161
1917	26	8	14	2	477	268	341	351	196	297	651	302	2933
1918	147	47	17	333	383	448	367	288	319	460	185	90	3085
1919	136	84	43	304	203	240	241	306	315	305	241	193	2611
1920	68	39	58	92	337	261	699	399	269	507	373	233	3334
1921	95	117	32	114	345	270	187	451	347	405	256	371	2991
1922	185	51	18	56	494	316	128	220	365	336	375	596	3142
1923	141	55	14	24	223	439	143	237	231	681	270	203	2660
1924	45	111	40	269	384	396	316	447	379	408	305	253	3353
1925	149	44	0	275	192	496	427	257	333	448	321	120	3062
1926	7	45	37	35	196	455	386	364	431	348	419	282	3005
1927	102	111	68	221	475	349	577	185	382	254	407	683	3815
1928	42	16	108	32	209	488	352	338	306	332	542	356	3119
1929	4	45	74	0	246	395	339	308	209	283	362	104	2368
1930	120	54	38	254	366	226	292	166	400	258	354	167	2696
1931	31	0	154	22	597	333	258	242	269	359	905	303	3471
1932	92	5	12	62	318	405	133	247	226	544	806	319	3167
1933	68	0	27	102	298	207	387	389	378	126	538	361	2881
1934	70	12	51	89	362	277	308	237	341	380	435	208	2769
1935	195	66	56	160	470	348	490	347	221	323	1380	506	4563
1936	34	30	22	89	598	209	342	279	298	289	420	58	2669
1937	212	35	26	82	418	390	362	390	363	309	519	563	3668
1938	59	62	26	234	658	600	245	326	331	260	379	537	3717
1939	24	7	34	56	166	304	141	449	263	189	594	227	2454
1940	131	72	38	36	325	172	230	363	207	330	358	52	2315
1941	46	77	58	44	459	303	255	359	213	647	439	136	3036
1942	37	26	65	183	275	434	239	457	207	607	205	300	3035
1943	100	132	32	130	234	305	183	341	511	308	317	493	3086
1944	81	79	14	323	518	258	438	424	292	532	333	741	4033

PELUCA (PEL)
MONTHLY RAINFALL IN MM

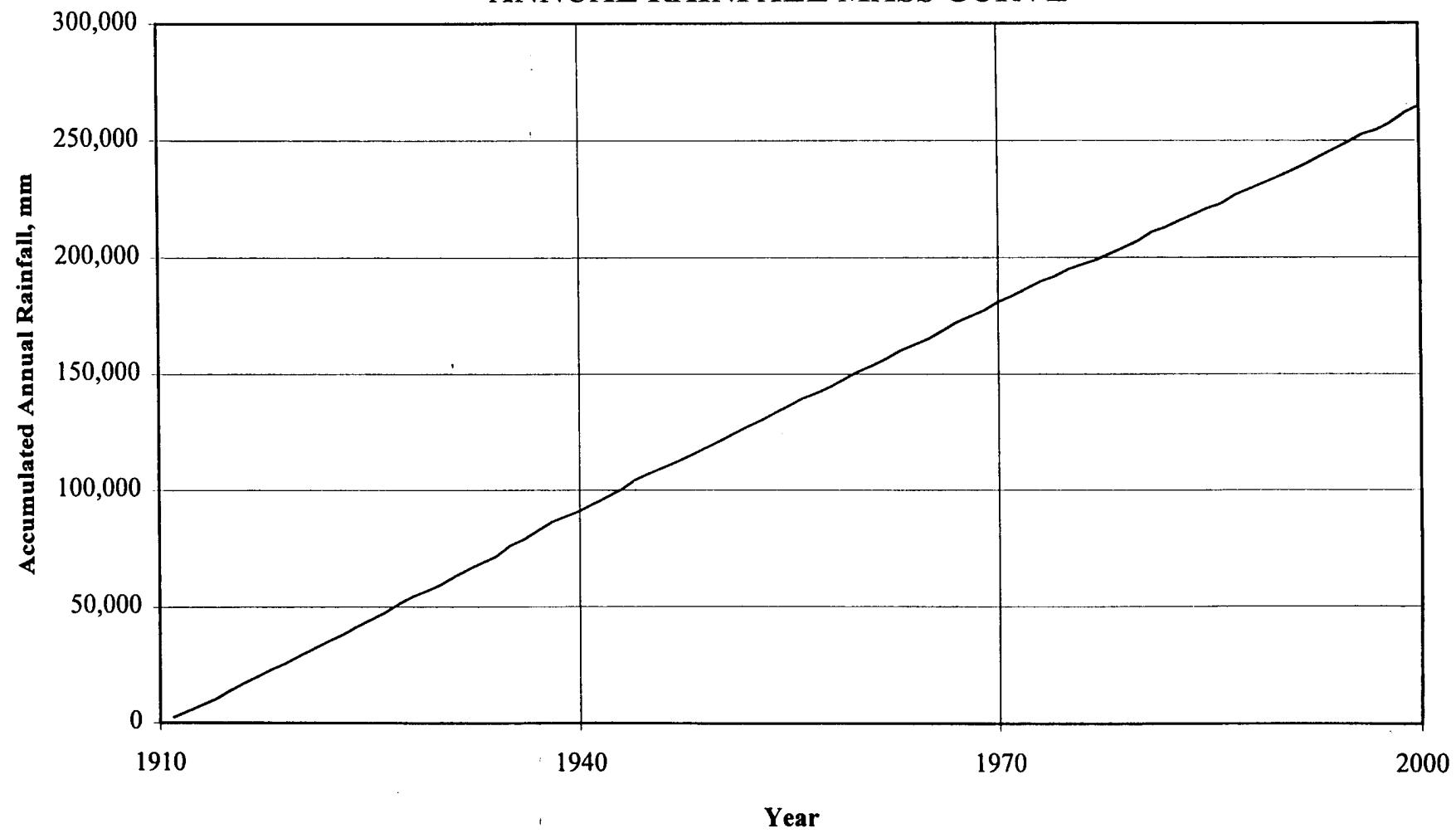
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1945	64	43	32	46	368	437	386	374	245	236	246	327	2804
1946	11	20	27	63	287	249	522	191	420	281	129	419	2619
1947	11	34	15	190	126	396	199	346	260	359	207	253	2397
1948	45	20	16	58	323	405	322	387	263	324	441	107	2711
1949	30	36	21	130	274	511	413	397	432	260	353	230	3084
1950	43	94	23	249	324	274	422	235	331	176	333	419	2923
1951	55	302	44	216	238	375	273	387	254	367	308	183	3002
1952	104	26	11	152	324	261	448	373	377	663	104	443	3286
1953	246	47	60	68	376	250	221	283	173	413	335	310	2783
1954	48	57	39	130	268	431	461	403	238	267	474	360	3174
1955	337	26	64	25	186	215	443	421	243	137	791	297	3186
1956	276	75	95	122	444	309	427	233	286	286	483	162	3198
1957	33	48	4	9	241	222	92	245	207	309	636	207	2253
1958	107	86	119	37	318	215	513	255	403	246	319	260	2878
1959	38	19	11	98	199	346	295	263	408	333	422	824	3256
1960	211	31	73	325	405	233	323	401	267	228	316	507	3321
1961	39	12	21	135	144	423	274	330	253	407	349	106	2494
1962	78	24	17	160	446	257	414	371	262	358	248	239	2873
1963	374	90	23	341	492	326	381	350	302	290	379	91	3438
1964	14	41	33	157	259	458	383	339	217	275	366	64	2605
1965	137	39	16	0	258	261	159	228	302	351	447	295	2493
1966	160	21	19	407	342	238	288	334	278	322	713	348	3470
1967	102	40	45	287	257	509	398	309	428	348	432	304	3457
1968	17	97	78	59	352	409	251	240	252	407	345	151	2658
1969	82	24	49	107	434	77	294	338	376	167	218	387	2556
1970	434	66	90	331	481	167	207	338	257	225	491	503	3589
1971	82	36	124	15	170	310	376	386	313	323	363	53	2551
1972	478	58	33	244	307	318	287	297	312	409	216	170	3129
1973	58	58	3	15	376	358	460	371	218	279	574	345	3117
1974	53	25	23	64	211	241	323	272	257	269	328	86	2151
1975	41	5	30	43	391	439	363	325	236	549	323	389	3134
1976	79	43	58	226	277	297	109	102	363	208	221	36	2019
1977	61	13	15	38	188	208	178	277	259	330	328	130	2024
1978	38	66	69	345	267	300	292	376	249	239	381	97	2718

PELUCA (PEL)
MONTHLY RAINFALL IN MM

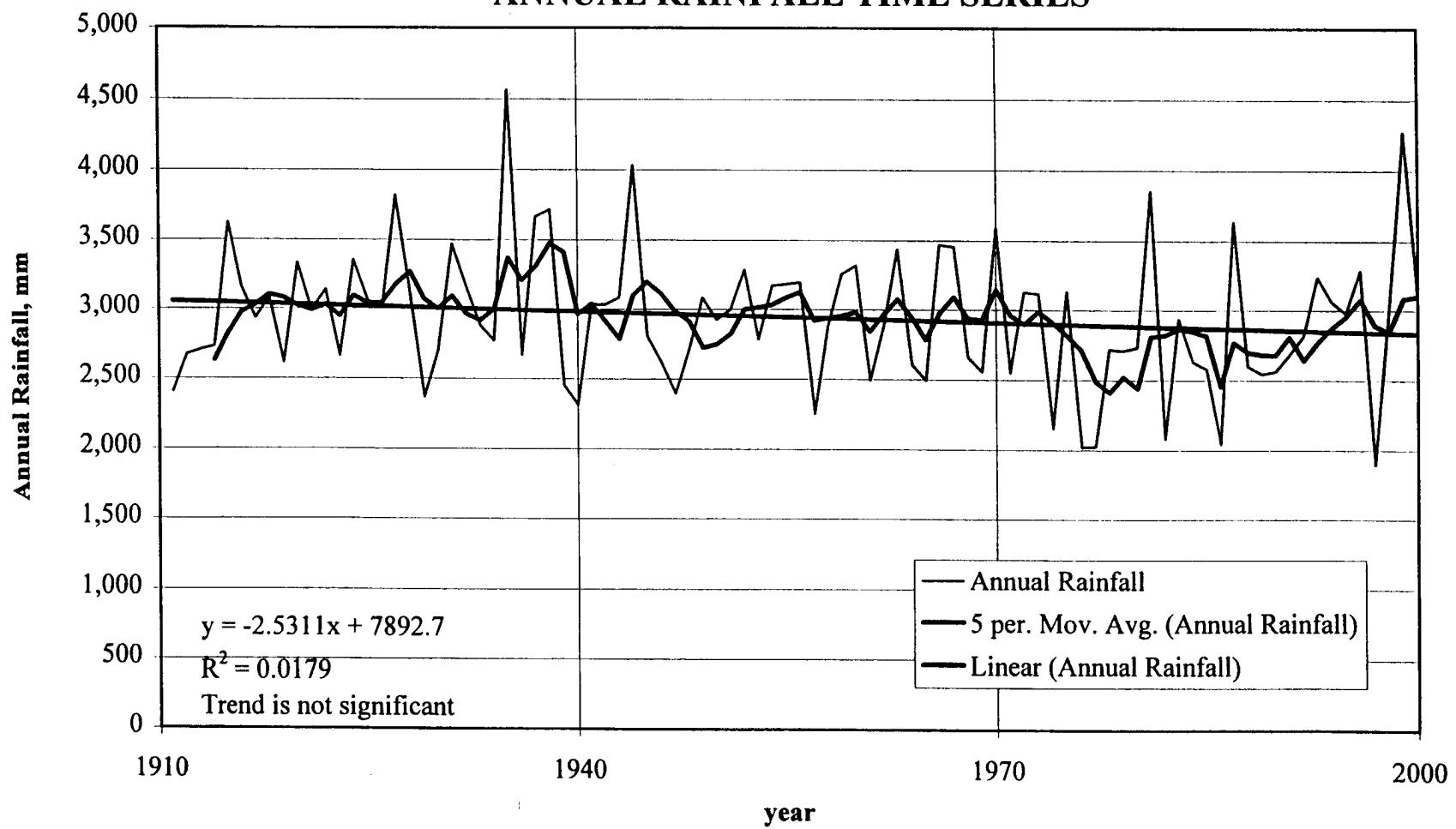
<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Ann</u>
1979	13	28	43	318	236	340	267	264	122	340	414	325	2710
1980	147	107	13	84	378	320	157	312	284	434	328	165	2731
1981	140	71	97	759	351	422	424	312	188	312	358	419	3853
1982	94	38	15	127	145	264	343	282	224	363	114	71	2080
1983	41	18	33	152	424	290	147	236	368	455	244	528	2936
1984	61	53	18	36	290	439	343	399	249	295	279	168	2629
1985	51	38	61	38	363	432	221	183	368	307	244	272	2578
1986	71	10	23	376	269	269	97	208	287	307	76	48	2042
1987	43	43	5	508	409	345	523	318	348	427	544	122	3635
1988	23	104	38	33	254	206	399	292	300	528	236	185	2598
1989	53	122	23	13	86	241	384	429	183	411	386	211	2543
1990	132	25	81	66	315	127	236	330	267	462	277	244	2563
1991	51	48	74	89	384	224	257	277	315	338	528	97	2680
1992	46	15	15	99	559	328	366	417	363	244	206	155	2812
1993	142	8	206	305	239	531	251	191	455	391	376	145	3239
1994	33	46	94	51	381	541	290	429	241	315	538	104	3063
1995	157	8	33	71	394	424	427	211	262	208	406	378	2979
1996	366	107	86	218	376	353	224	272	218	287	640	140	3287
1997	41	23	20	97	361	221	152	145	246	363	216	10	1895
1998	25	15	20	175	320	338	315	462	455	226	259	378	2990
1999	86	160	112	231	455	297	429	376	307	361	472	986	4272
2000	168	64	41	79	325	528	137	302	173	404	206	653	3078
Mean	98	53	43	148	331	332	312	315	295	348	389	281	2943
Max	478	302	206	759	658	600	699	462	511	681	1380	986	4563
Min	4	0	0	0	86	77	92	102	122	126	76	10	1895
Std	93	45	36	131	113	104	123	79	76	110	185	188	494
Skew	2.1	2.5	1.8	1.6	0.4	0.3	0.3	-0.2	0.5	0.8	2.2	1.2	0.5
CV	1.0	0.9	0.8	0.9	0.3	0.3	0.4	0.3	0.3	0.3	0.5	0.7	0.2

Note : Estimated rainfall in bold values.

PELUCA (PEL)
ANNUAL RAINFALL MASS CURVE

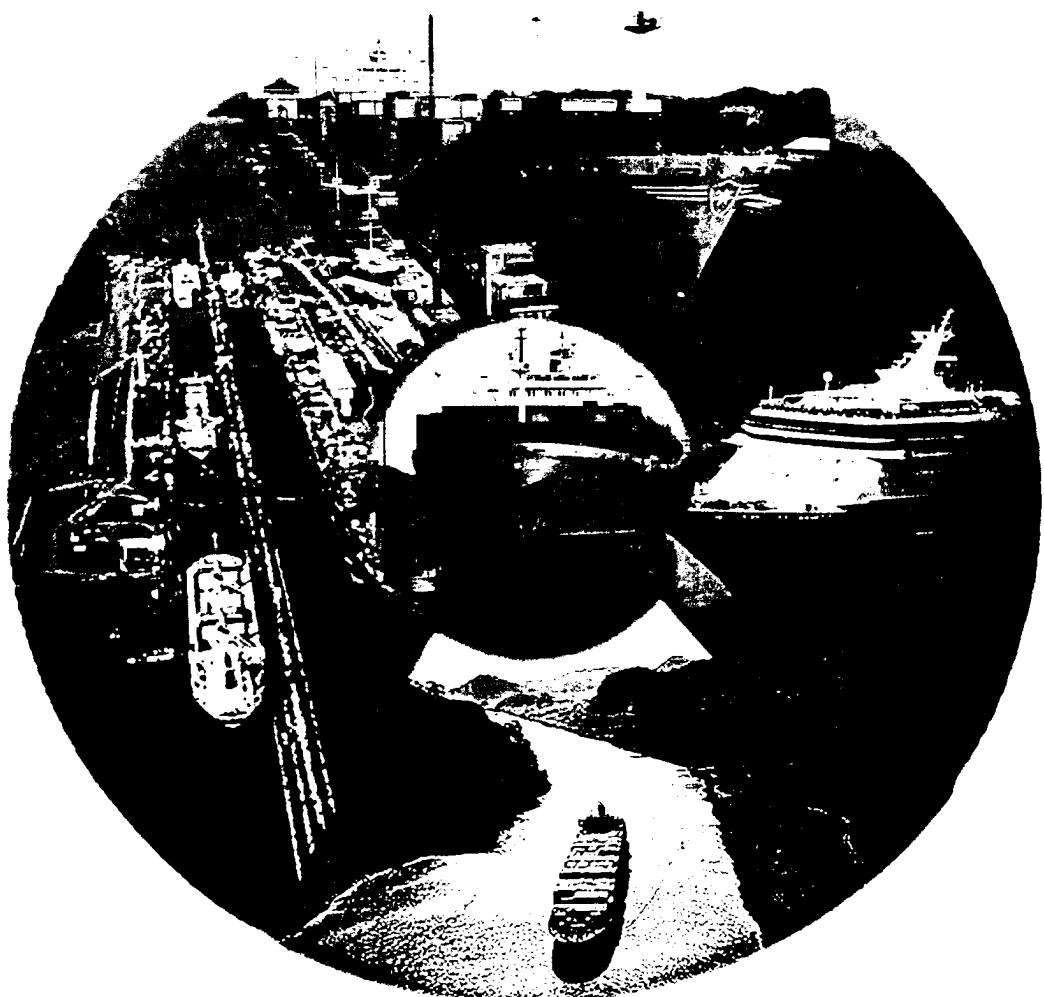


PELUCA (PEL)
ANNUAL RAINFALL TIME SERIES



Appendix E

FILLIN Computer Program, Input and Output Files for Rainfall and Streamflow



INPUT FILE
RAINFALL
FILL-IN PROGRAM

GATUN WATERSHED
FILLING MISSING DATA

0 0
27 90 12 1973 1911
0 0 27

RAIN ALHAJUELA (ALA)
RAIN AGUA CLARA (ACL)
RAIN BARRO COLORADO (BCI)
RAIN BALBOA HEIGHT (BHT)
RAIN CANO (CNO)
RAIN CANDELARIA (CDL)
RAIN CIENTO (CNT)
RAIN CHICO (CHI)
RAIN LIMON BAY (LMB)
RAIN EL CHORRO (CHR)
RAIN EMPIRE HILLS (EMH)
RAIN ESCANDALOSA (ESC)
RAIN GAMBOA (GAM)
RAIN GATUN (GAT)
RAIN GUACHA (GUA)
RAIN HODGES HILL (HHI)
RAIN LAS CASCADAS (CAS)
RAIN LAS RACIES (RAI)
RAIN LOS CANONES (CAN)
RAIN MONTE LIRIO (MLR)
RAIN PEDRO MIGUEL (PMG)
RAIN PELUCA (PEL)
RAIN RIO PIEDRAS (RPD)
RAIN SALAMANCA (SAL)
RAIN SAN MIGUEL (SMG)
RAIN SANTA ROSA (SRO)
RAIN HUMEDAD (HUM)

	27	1	2	3	4	5	6	7	8	9	10	11
	12	13	14	15	16	17	18	19	20	21	22	23
	24	25	26	27								

0	0.14	2.29	0.01	4.88	16.11	10.53	8.84	10.79	9.29	13.39	13.39	0.39
1911	0.08	0.33	0.02	0.20	13.43	12.17	10.17	12.87	9.12	13.52	9.62	2.20
1912	0.96	0.22	0.08	0.72	12.63	11.51	6.99	10.92	8.82	6.41	16.56	1.59
1913	0.09	0.22	0.05	1.68	5.66	12.55	7.21	12.36	16.98	22.91	7.56	2.25
1914	0.86	2.53	0.06	8.94	8.20	8.09	15.71	10.29	9.60	16.61	11.93	5.87
1915	0.66	1.34	0.37	5.84	12.40	14.00	12.07	10.99	14.96	19.32	14.77	3.29
1916	0.11	0.04	0.16	1.09	17.17	8.70	12.90	13.31	9.92	13.72	19.83	6.41
1917	0.93	0.14	0.02	6.80	11.34	15.76	8.79	9.16	11.07	12.03	6.94	0.27
1918	0.75	0.04	0.07	9.06	6.11	6.87	13.46	8.11	9.35	15.46	9.79	2.44
1919	0.52	0.15	0.20	0.83	4.46	11.16	20.83	14.17	8.90	25.20	10.15	2.63
1920	0.18	1.79	0.27	0.96	10.76	9.57	17.53	14.74	11.41	21.53	9.24	3.07
1921	3.95	0.16	0.00	0.17	12.52	13.85	7.59	9.92	8.31	16.74	11.15	4.38
1922	0.68	0.17	0.18	0.12	12.89	14.99	5.69	12.11	14.61	27.71	6.13	0.84
1923	0.03	1.81	0.12	4.56	12.43	8.48	15.22	8.87	9.31	13.21	14.36	4.84
1924	2.55	0.02	0.20	4.84	6.49	8.38	12.74	8.54	8.95	12.20	13.36	2.13
1925	0.07	0.52	0.04	0.01	3.23	14.02	16.62	17.27	13.46	14.49	11.10	5.09
1926	0.66	0.46	0.12	5.15	13.19	20.51	14.41	11.06	8.66	7.19	13.12	3.27
1927	0.72	0.15	3.00	2.20	5.25	7.37	9.65	19.71	7.89	13.61	21.41	4.04
1928	0.21	0.04	0.72	2.19	8.58	12.55	13.98	16.03	11.69	18.63	10.69	3.50
1929	0.25	0.37	0.54	6.90	11.49	5.67	14.32	9.11	12.63	10.15	3.08	0.88
1930	0.24	0.13	2.35	2.19	11.08	13.72	12.81	9.06	17.52	8.03	29.23	4.65
1931	1.06	0.22	0.38	5.74	17.55	11.49	6.79	11.55	10.18	17.49	22.41	4.97
1932	1.01	0.00	2.47	0.23	12.11	10.75	10.34	12.68	11.02	7.54	14.59	7.77
1933	1.41	0.17	0.12	4.47	18.77	11.66	9.60	11.21	10.35	18.51	20.55	5.98
1934	0.84	0.46	0.12	1.61	14.35	13.30	22.52	14.56	13.94	14.84	33.32	6.07
1935	0.08	0.07	0.09	1.02	12.00	6.88	13.00	8.82	15.62	14.03	9.99	0.63
1936	1.52	0.23	0.13	0.90	10.98	10.39	9.48	14.43	10.87	13.51	17.53	18.51
1937	0.20	0.06	0.63	3.87	13.26	15.92	7.97	9.80	7.45	15.52	12.73	14.25
1938	0.02	0.01	0.06	0.11	3.29	11.16	7.05	11.93	11.84	14.82	18.47	7.53
1939	2.16	0.55	0.05	0.15	5.59	6.99	7.73	12.24	14.46	16.90	10.37	1.79
1940	0.55	3.01	0.37	4.07	9.67	9.04	13.87	7.92	11.32	14.63	7.81	1.76
1941	0.98	0.28	0.42	6.27	12.13	12.96	8.41	9.06	9.41	17.22	7.30	15.13
1942	3.81	0.96	0.27	5.12	14.55	17.11	8.95	6.47	8.16	11.12	9.95	12.49
1943	0.70	0.04	0.06	4.96	10.79	4.92	11.37	16.93	8.09	22.92	10.66	6.63
1944	0.20	0.02	0.04	1.05	12.44	5.95	13.28	11.79	14.08	9.44	10.54	8.58
1945	0.44	0.14	0.20	0.14	11.16	16.92	11.59	4.32	7.79	6.44	10.64	9.84
1946	0.01	0.25	0.02	2.96	6.04	11.62	11.26	11.91	10.46	12.36	9.01	6.23
1947	0.14	0.01	0.18	0.36	12.37	10.16	11.99	3.74	7.95	13.41	16.84	1.87
1948	0.16	0.12	0.03	1.88	8.74	18.80	8.35	10.09	5.96	15.53	14.08	4.45
1949	0.08	0.18	0.27	2.26	10.12	13.00	15.15	11.40	8.34	8.88	17.86	8.62
1950												

1951	0.17	2.54	0.05	5.53	17.15	8.46	10.83	12.72	8.35	9.43	13.63	2.96
1952	0.96	0.19	0.00	1.49	11.95	15.81	15.15	7.71	10.94	16.86	3.95	12.19
1953	3.11	0.88	0.14	3.33	15.75	6.48	16.44	5.03	7.14	11.28	12.21	3.65
1954	0.47	0.29	0.62	3.38	12.47	8.70	16.58	17.09	11.30	12.38	9.32	1.61
1955	5.11	0.30	0.46	0.09	6.88	9.12	13.84	13.72	9.17	8.72	18.92	5.59
1956	4.24	0.49	2.66	3.49	13.70	8.74	12.74	14.77	15.42	20.05	14.60	1.32
1957	0.03	0.08	0.03	0.02	7.19	10.64	11.98	10.30	9.24	16.02	12.40	0.99
1958	2.05	0.27	0.90	1.46	13.27	7.67	13.37	10.42	9.62	8.89	9.78	1.63
1959	0.57	0.00	0.02	0.20	4.95	9.36	5.20	10.65	6.44	6.39	5.05	8.97
1960	1.23	0.06	1.75	3.97	11.87	11.03	12.80	11.66	10.51	14.32	12.93	14.02
1961	0.11	0.02	1.04	5.80	7.40	15.41	8.23	13.80	14.79	13.74	12.74	6.36
1962	0.51	0.00	1.45	1.07	11.14	9.23	12.46	9.65	13.00	18.99	8.05	5.11
1963	5.19	1.21	0.12	5.56	5.21	12.94	9.75	18.13	19.06	10.22	14.64	0.80
1964	0.13	0.04	0.41	7.69	9.95	12.15	14.17	10.11	10.97	13.08	12.88	1.78
1965	0.69	0.02	0.01	0.03	10.85	9.09	7.88	10.30	11.19	11.39	19.73	6.32
1966	0.28	0.32	0.21	2.53	14.00	10.74	9.32	8.21	13.89	7.95	24.93	14.35
1967	0.75	0.20	0.05	2.53	5.44	14.20	17.46	12.93	20.08	12.91	13.10	3.22
1968	0.00	1.80	0.21	1.59	13.38	18.31	9.81	19.50	15.03	11.87	13.02	3.31
1969	1.16	0.17	1.58	7.39	4.93	8.30	11.55	10.83	16.07	10.64	12.05	4.38
1970	5.11	0.24	1.62	7.32	14.08	8.80	12.90	11.50	14.40	12.00	14.40	10.20
1971	4.90	0.10	2.60	0.70	12.60	10.50	13.50	16.10	12.80	17.80	10.60	0.30
1972	6.00	0.20	1.50	8.40	10.10	11.70	6.80	7.40	16.50	12.80	8.20	4.00
1973	0.40	0.00	0.00	1.10	8.80	9.70	9.70	5.10	14.50	10.10	14.70	4.10
1974	0.10	0.00	0.60	0.50	8.30	18.20	8.90	9.80	8.70	13.90	8.10	1.20
1975	0.50	0.10	0.90	0.20	7.90	9.80	18.30	11.80	10.30	18.70	9.70	7.70
1976	0.30	0.00	0.00	2.20	6.50	10.70	3.30	4.80	10.40	15.00	7.40	0.30
1977	0.20	0.40	0.00	0.10	14.20	9.40	5.40	18.60	12.60	15.40	6.90	5.70
1978	0.40	0.50	0.80	9.30	8.30	10.20	10.10	12.50	8.20	14.50	11.60	2.40
1979	0.00	0.20	0.00	11.30	9.10	8.90	12.00	13.00	4.30	13.00	14.00	2.00
1980	2.60	0.80	0.00	0.90	11.90	12.80	10.80	17.10	9.10	13.50	12.50	3.00
1981	0.90	0.10	2.30	11.20	13.50	13.30	13.70	9.70	4.00	9.50	13.70	6.70
1982	3.30	0.20	0.00	2.90	9.20	9.10	9.60	3.10	11.20	14.40	6.30	0.10
1983	0.30	0.00	0.00	3.10	10.90	7.80	7.30	8.00	17.40	20.10	15.80	4.20
1984	0.50	0.40	0.90	2.20	11.30	11.90	6.70	15.70	13.10	15.50	17.20	0.40
1985	0.70	0.50	0.60	0.90	14.40	13.30	9.10	8.60	21.10	9.50	14.60	8.20
1986	0.60	0.30	3.10	4.90	2.60	14.20	5.70	7.30	7.70	20.40	8.50	1.00
1987	0.10	0.20	0.40	12.30	8.50	14.90	12.20	10.50	16.60	15.30	8.00	4.00
1988	0.00	0.10	0.10	4.20	5.70	11.80	18.30	11.10	13.10	15.30	13.00	3.30
1989	0.00	0.50	0.20	0.20	3.40	7.70	6.60	8.60	8.30	15.60	15.20	4.80
1990	0.50	0.10	0.10	0.10	8.40	4.90	10.40	13.10	8.90	25.80	10.20	9.20
1991	0.80	0.20	1.10	4.60	12.30	16.90	17.00	10.60	11.20	12.70	11.30	0.90
1992	0.20	0.00	1.10	4.70	9.50	12.20	10.70	13.50	18.40	9.80	8.20	2.60
1993	3.00	0.20	2.00	6.20	8.80	13.10	8.40	8.30	17.60	14.90	16.30	2.50
1994	0.90	0.00	1.00	1.40	8.80	12.80	7.70	10.10	10.10	18.10	12.40	1.20
1995	0.20	0.00	0.50	3.60	9.80	9.60	10.70	13.80	12.60	12.10	15.70	6.90
1996	13.60	1.20	1.90	3.70	10.30	8.10	6.80	11.30	9.00	11.00	14.10	3.30
1997	0.00	0.00	0.20	3.60	14.10	13.80	7.30	7.00	10.80	8.80	8.30	0.20
1998	0.00	0.10	0.00	2.00	9.00	13.50	13.80	13.10	13.40	8.00	14.50	10.00
1999	2.10	5.70	0.10	5.20	7.20	16.50	8.50	16.20	10.00	12.00	17.90	23.10
2000	1.10	0.00	0.90	2.20	9.90	12.20	11.00	13.00	8.00	12.30	7.90	12.70
2011	0.71	2.40	1.48	4.66	22.96	14.79	8.01	9.46	7.56	16.95	17.20	1.45
2012	0.85	2.10	0.36	0.32	13.47	16.25	13.89	10.77	8.27	17.59	19.45	7.97
2013	5.53	3.70	0.20	3.82	14.74	10.45	9.96	12.31	8.07	15.23	17.56	10.71
2014	0.67	1.87	1.01	3.19	13.03	13.32	5.90	16.89	12.70	16.55	11.80	4.96
2015	1.90	13.17	0.95	17.25	8.00	11.72	19.06	13.15	13.65	18.65	19.15	11.10
2016	1.05	2.58	3.45	4.50	11.65	12.68	8.20	6.85	9.84	17.08	19.82	5.41
2017	1.62	0.67	0.66	9.20	13.10	12.74	16.10	17.05	15.02	10.75	25.92	12.30
2018	4.11	0.70	0.60	6.37	15.80	9.50	8.15	15.65	8.85	25.45	10.12	1.65
2019	1.40	0.45	0.60	13.40	9.55	13.20	9.00	10.85	9.40	17.24	7.72	8.20
2020	1.11	0.81	1.02	0.39	5.63	6.53	16.06	16.90	6.77	17.15	9.92	3.80
2021	2.01	2.81	0.85	5.88	14.85	14.05	-1.00	-1.00	-1.00	-1.00	-1.00	8.71
2022	10.54	1.63	1.46	2.81	11.33	13.28	5.60	7.24	11.98	17.08	16.92	8.24
2023	3.05	0.55	0.98	1.82	12.03	12.79	13.85	14.65	14.40	44.35	18.40	7.14
2024	1.19	4.23	0.87	14.14	13.00	14.07	16.15	12.89	11.88	15.50	30.68	7.17
2025	3.67	1.10	0.83	6.91	9.41	12.01	17.19	9.06	16.62	17.00	20.97	5.45
2026	1.10	2.12	0.96	0.99	11.47	21.94	21.69	20.37	8.61	18.81	28.04	10.54
2027	6.25	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2028	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2029	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2030	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2031	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2032	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2033	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2034	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2035	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2036	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	14.04	13.69	21.95	15.83	27.89	20.44	8.29	
1942	3.61	2.34	6.51	7.30	12.56	15.43	10.92	13.03	16.45	31.49	19.75	16.36	
1943	3.26	3.98	0.97	4.70	24.24	19.23	8.93	12.26	14.10	21.37	23.84	28.75	
1944	4.07	0.78	0.58	11.47	28.96	8.11	9.02	25.35	6.22	30.00	19.90	22.20	
1945	1.32	0.11	0.55	1.98	16.65	10.35	20.87	16.95	11.00	15.62	30.35	30.23	
1946	0.62	0.98	3.16	1.15	7.41	10.26	16.96	16.08	13.42	16.09	24.56	18.42	
1947	0.26	1.93	0.99	4.41	8.45	10.43	12.20	13.60	-1.00	-1.00	7.80	7.78	
1948	2.92	0.21	0.88	3.27	18.34	10.16	24.47	8.33	14.93	14.81	24.16	2.41	
1949	0.56	0.70	0.87	1.95	16.10	16.86	11.19	17.49	11.28	17.08	38.85	14.53	
1950	0.45	2.21	1.30	4.67	13.36	20.39	14.09	16.00	14.33	14.91	37.91	32.45	
1951	2.69	7.80	0.74	8.20	17.62	9.63	10.89	15.48	12.37	16.92	22.05	13.92	
1952	3.86	0.41	0.36	6.32	13.25	11.76	16.88	13.57	10.38	31.10	12.49	18.49	
1953	9.22	2.22	2.68	2.85	11.57	12.88	12.56	11.92	9.23	25.89	23.05	7.52	
1954	0.92	1.36	1.30	9.08	18.20	15.47	24.24	16.85	16.15	12.24	18.42	11.44	
1955	14.75	1.23	0.72	0.30	10.06	11.47	8.96	13.62	9.72	18.06	25.25	12.03	
1956	9.80	1.31	9.80	4.52	24.47	8.68	12.63	11.21	14.54	23.58	18.27	6.13	
1957	0.31	0.36	0.10	0.22	9.02	8.63	6.24	9.92	10.70	18.23	28.02	6.36	
1958	10.01	2.63	4.67	3.15	11.95	13.55	13.73	14.30	10.18	12.93	12.15	6.88	
1959	0.69	0.19	0.50	4.27	7.99	11.54	9.44	9.21	18.32	14.01	16.17	38.52	
1960	2.71	0.72	4.43	14.75	13.16	12.32	8.87	9.18	8.10	18.82	18.13	28.26	
1961	1.12	0.21	0.50	3.56	8.08	15.45	9.91	14.16	10.58	17.86	18.75	5.47	
1962	2.71	0.57	1.41	3.76	37.94	13.70	17.38	13.69	10.72	15.05	24.57	-1.00	
1963	0.00	4.72	0.51	2.23	18.66	15.77	12.06	16.50	-1.00	16.54	31.96	-1.00	
1964	0.87	0.21	2.04	7.63	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1965	3.01	0.95	-1.00	-1.00	13.69	13.68	3.17	-1.00	-1.00	22.80	-1.00	-1.00	
1966	4.06	0.98	1.03	7.12	17.85	14.24	13.06	10.78	14.56	15.49	29.44	25.47	
1967	1.27	0.52	1.12	6.12	10.93	17.79	14.50	12.06	12.29	20.28	27.58	6.61	
1968	0.11	4.77	5.12	0.65	10.21	12.11	13.59	14.20	12.51	17.30	23.67	2.85	
1969	2.32	1.68	3.44	6.29	20.85	7.03	16.21	15.37	18.25	20.48	18.42	21.94	
1970	15.40	5.41	3.07	12.61	17.22	8.66	10.21	18.55	8.64	18.80	36.70	25.00	
1971	6.40	1.70	3.80	0.60	14.30	14.20	16.30	-1.00	-1.00	18.20	11.90	1.30	
1972	11.80	4.60	2.20	9.50	14.20	14.90	4.60	10.70	11.90	21.10	9.00	7.80	
1973	3.40	1.20	0.70	0.80	11.40	14.30	15.80	13.30	15.30	13.20	25.70	7.10	
1974	1.70	1.20	2.70	1.30	7.10	16.80	11.50	13.80	14.40	28.90	27.80	7.30	
1975	2.60	4.80	7.50	0.90	11.00	10.60	21.00	17.70	11.40	27.60	17.90	18.30	
1976	2.10	1.50	0.40	7.30	11.30	10.70	3.20	12.90	18.20	20.20	12.30	0.80	
1977	4.10	0.70	1.30	3.10	12.50	7.10	11.50	24.70	17.20	15.00	9.80	12.30	
1978	2.40	4.80	3.20	18.10	9.70	19.30	16.20	21.70	14.50	13.30	18.70	5.10	
1979	0.70	2.30	1.20	13.60	18.40	17.00	9.20	15.70	10.70	21.60	20.80	9.70	
1980	9.90	6.10	0.90	3.50	11.90	8.50	10.00	11.80	6.50	10.30	12.00	10.80	
1981	18.20	3.80	3.70	19.20	13.00	12.20	9.70	12.30	9.20	16.40	39.20	33.40	
1982	10.40	0.50	0.30	8.20	10.90	13.50	13.00	7.60	11.60	24.80	10.30	1.60	
1983	3.30	0.50	0.50	8.30	10.50	10.10	8.40	16.80	15.70	19.20	17.20	18.40	
1984	6.30	1.10	0.80	2.60	9.90	16.60	15.70	20.40	9.10	28.60	29.90	3.10	
1985	2.10	3.40	3.40	2.20	16.10	21.00	9.80	17.00	16.70	17.10	20.20	24.20	
1986	4.40	1.00	6.00	6.80	13.30	13.70	8.90	12.30	13.50	33.20	11.60	3.30	
1987	3.20	8.20	0.20	27.70	22.90	18.00	17.40	17.90	17.60	34.30	8.60	6.70	
1988	0.70	3.30	1.20	0.90	14.30	11.80	20.30	26.00	24.10	29.90	15.60	12.00	
1989	0.90	7.70	3.50	0.30	9.90	6.80	17.40	15.10	11.30	18.30	27.30	13.90	
1990	1.40	0.30	5.80	2.60	19.40	13.30	14.70	20.20	31.00	33.90	23.30	10.00	
1991	1.60	2.60	4.60	4.60	13.60	20.70	15.40	7.80	24.40	14.70	28.70	4.90	
1992	3.30	0.50	1.20	14.60	36.40	13.80	13.70	18.60	18.70	14.30	9.80	5.60	
1993	11.40	3.00	7.20	8.70	8.60	18.50	13.30	11.30	19.30	17.80	18.30	9.70	
1994	7.00	1.20	4.10	1.90	14.20	18.40	16.80	13.90	20.10	20.80	27.60	3.40	
1995	10.30	6.60	1.90	7.80	18.80	24.10	17.20	18.40	15.50	15.50	33.40	17.20	
1996	26.90	6.90	12.30	7.90	15.70	22.60	8.40	16.30	11.10	9.20	38.40	7.10	
1997	1.30	0.40	0.60	0.80	14.20	15.20	5.50	8.50	11.70	8.50	24.90	1.30	
1998	1.70	0.30	2.20	12.10	18.00	14.70	14.70	21.40	16.10	15.00	16.50	19.70	
1999	0.80	5.10	6.90	14.70	13.10	24.10	20.30	19.40	9.30	13.90	27.70	32.00	
2000	4.20	0.70	0.60	4.50	12.30	22.30	10.30	16.90	14.00	33.30	10.10	28.60	
2011	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2012	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2013	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2014	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2015	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2016	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2017	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2018	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2019	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2020	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2021	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
2022	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	

1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	3.95	5.76	13.58	13.62	13.36	13.80	22.23	13.75	4.32		
1926	1.06	2.93	0.52	0.27	8.50	17.58	15.02	12.15	12.07	13.90	22.00	12.22		
1927	3.03	1.44	1.27	7.61	19.02	14.55	13.46	12.41	10.73	9.74	16.34	6.76		
1928	1.75	0.47	2.23	1.66	9.39	9.41	9.61	16.67	8.11	11.93	18.71	11.58		
1929	0.48	0.07	2.63	1.89	13.79	9.82	12.54	15.68	6.94	9.93	12.19	1.88		
1930	1.91	0.63	0.26	3.29	10.02	7.39	7.26	5.93	11.55	6.06	11.77	10.50		
1931	1.20	0.97	5.54	3.81	16.96	15.01	18.25	7.73	7.65	12.67	30.84	2.67		
1932	1.75	0.30	1.19	4.42	7.67	11.81	12.73	10.67	6.90	14.04	31.08	10.96		
1933	2.49	0.05	1.22	0.10	7.00	9.42	9.10	10.23	9.08	6.39	32.72	13.93		
1934	1.52	0.75	1.83	5.76	12.04	9.02	10.59	12.22	19.96	13.70	19.68	15.35		
1935	1.66	5.91	0.51	3.69	10.11	11.90	28.58	8.24	9.09	8.64	41.59	13.50		
1936	0.76	0.21	1.64	2.26	11.61	5.43	10.61	13.55	12.87	19.75	11.79	3.40		
1937	2.46	0.20	0.19	1.08	12.84	10.31	8.32	19.36	9.91	12.67	18.64	28.15		
1938	2.24	1.15	1.43	3.33	16.71	19.31	10.42	14.01	6.07	13.75	9.60	19.07		
1939	0.46	0.08	0.38	0.68	3.09	13.40	9.07	9.45	15.09	15.67	36.39	11.71		
1940	4.60	2.55	1.51	0.33	9.12	12.43	5.52	11.66	10.77	16.26	9.51	2.25		
1941	2.34	2.96	0.94	0.50	8.02	8.60	11.84	12.04	7.29	17.37	15.52	4.40		
1942	2.80	1.58	2.72	4.49	11.01	6.35	8.91	11.41	14.02	18.72	8.18	20.91		
1943	1.93	1.74	2.21	2.87	14.66	14.25	10.59	15.35	10.39	10.17	21.54	14.59		
1944	2.28	0.75	0.45	6.46	15.88	10.28	7.43	21.44	7.31	17.13	7.21	15.34		
1945	2.89	0.67	0.27	1.59	13.55	10.17	13.87	12.32	10.07	10.02	20.60	24.40		
1946	0.45	0.32	1.71	1.41	8.05	7.94	12.38	10.50	10.67	9.00	14.98	9.77		
1947	0.40	2.14	0.54	3.09	4.82	12.06	7.53	11.76	9.53	13.17	7.25	5.63		
1948	1.84	0.19	0.17	2.92	10.80	6.32	11.45	10.46	6.72	10.74	20.33	1.22		
1949	0.70	0.07	0.11	0.90	11.97	15.57	13.38	9.99	7.11	14.45	32.76	7.85		
1950	0.20	1.87	0.48	2.73	7.86	14.66	12.37	11.48	7.20	14.02	24.19	17.45		
1951	2.21	3.76	0.30	8.53	12.19	10.94	5.37	11.29	9.62	19.43	16.15	12.93		
1952	2.40	0.39	0.11	5.46	12.39	11.76	6.01	9.11	11.13	16.96	9.50	12.46		
1953	4.30	0.69	1.25	6.64	9.21	3.81	15.93	15.60	5.70	18.27	19.28	4.34		
1954	1.24	1.29	0.21	3.10	11.09	12.06	15.05	12.92	11.19	13.14	17.12	7.25		
1955	9.05	0.46	0.90	0.37	10.58	13.54	11.49	11.36	9.27	16.33	18.35	12.72		
1956	5.57	2.11	2.24	2.61	16.55	6.85	19.55	9.48	11.27	18.64	12.37	6.81		
1957	0.56	0.53	0.02	0.05	6.37	5.97	10.86	21.90	12.42	17.22	17.96	4.09		
1958	4.26	7.34	2.98	4.73	12.22	8.89	9.54	12.35	10.64	15.42	7.16	4.67		
1959	0.32	0.15	0.11	1.33	8.89	8.29	8.86	8.62	14.69	9.03	10.18	24.41		
1960	2.96	0.95	4.47	18.26	15.52	11.53	11.46	7.02	9.49	19.50	16.53	22.35		
1961	1.23	0.24	0.71	5.45	7.86	10.70	7.42	19.73	13.33	17.22	10.84	5.96		
1962	1.86	0.67	0.08	1.84	12.84	10.13	13.26	13.21	13.57	8.43	13.82	10.81		
1963	7.94	3.14	1.65	6.38	9.08	5.96	12.83	18.87	8.06	10.19	21.60	3.24		
1964	0.22	0.25	0.21	4.56	15.82	19.25	17.44	8.56	11.41	16.87	16.04	2.62		
1965	2.78	0.26	0.21	1.08	9.88	8.13	7.75	9.90	11.91	10.85	23.00	7.05		
1966	3.23	0.15	0.44	3.20	6.88	13.65	9.27	14.17	9.93	12.81	23.72	14.02		
1967	0.49	0.51	0.52	4.38	6.28	13.54	8.74	10.94	6.98	11.87	15.15	6.48		
1968	0.09	1.79	3.59	0.61	11.54	10.21	6.54	15.87	7.08	18.66	10.32	1.82		
1969	1.74	0.52	0.43	4.99	9.99	6.01	12.30	6.02	8.74	12.44	13.02	10.22		
1970	11.82	2.83	1.43	4.21	17.98	8.52	13.32	14.09	5.15	10.91	19.97	16.81		
1971	4.17	0.68	2.26	0.11	22.55	6.32	9.73	9.40	10.10	6.90	11.80	0.90		
1972	6.20	3.30	0.90	5.50	8.70	11.50	5.00	9.70	13.80	15.10	6.20	7.30		
1973	2.10	0.80	0.20	1.00	11.80	13.90	9.50	6.70	12.00	10.50	22.90	3.20		
1974	0.20	0.60	1.50	0.50	4.40	11.40	13.00	11.00	9.80	17.80	15.60	4.70		
1975	0.10	0.70	1.60	2.30	12.40	9.00	8.90	13.10	12.40	16.70	14.00	17.50		
1976	0.90	0.00	0.20	2.60	7.50	9.80	3.50	8.50	14.50	9.90	8.50	1.30		
1977	1.00	2.30	0.90	0.60	9.60	8.60	7.10	24.80	11.60	16.30	16.90	2.50		
1978	0.30	0.70	1.90	7.70	7.20	8.30	11.40	11.20	5.30	12.30	11.60	1.00		
1979	0.20	1.20	0.30	12.20	9.80	15.10	12.80	13.00	10.70	10.10	10.70	8.80		
1980	4.40	1.90	0.20	0.80	10.20	8.20	7.60	10.10	6.60	11.50	13.80	7.10		
1981	15.70	0.80	2.40	13.40	16.20	18.50	12.40	16.00	8.50	13.40	25.50	19.90		
1982	4.50	0.70	0.20	3.70	6.60	7.00	6.70	11.60	11.30	11.40	4.00	1.20		
1983	0.90	0.00	0.10	3.70	9.70	11.20	12.00	9.00	13.60	10.60	16.60	10.60		
1984	4.10	2.70	0.90	2.30	9.30	10.70	9.30	13.50	11.00	21.20	17.30	0.80		
1985	1.00	1.00	0.90	0.20	11.30	8.00	9.90	9.30	6.40	14.10	7.70	12.20		
1986	2.40	0.30	1.80	3.80	4.30	8.90	3.40	11.70	10.10	17.80	7.30	5.20		
1987	0.20	2.10	0.00	9.10	15.40	6.40	12.20	17.40	13.40	13.30	11.30	7.20		
1988	0.40	1.10	0.30	0.90	9.70	7.70	5.40	5.40	11.70	14.70	9.90	9.10		
1989	0.20	2.10	0.90	0.30	2.10	5.20	9.00	9.30	4.30	15.00	13.00	7.40		
1990	0.60	0.30	2.00	6.20	18.00	5.10	12.90	8.80	14.80	16.60	10.30	6.30		
1991	0.60	1.00	6.40	0.70	12.40	8.00	10.80	9.00	12.00	10.00	16.00	2.70		
1992	1.30	0.20	0.00	6.00	18.40	14.10	9.60	12.60	18.00	16.80	14.30	6.60		
1993	4.30	1.00	2.20	5.30	6.50	8.70	12.20	8.90	20.10	16.30	18.70	9.60		
1994	3.10	0.00	2.40	1.70	13.20	13.60	16.40	15.90	11.60	12.90	18.60	1.70		
1995	6.90	1.30	0.40	5.70	15.90	17.50	12.00	8.70	8.80	12.70	11.70	11.80		
1996	15.00	4.20	3.40	1.00	17.60	18.90	9.10	11.80	12.10	14.40	20.30	4.40		
1997	0.80	1.70	0.10	0.80	12.90	11.30	6.70	8.10	7.20	9.10	11.00	0.10		
1998	0.60	1.20	1.60	8.50	9.50	13.20	14.30	14.10	9.80	14.40	4.50	16.00		

	1.30	1.60	4.60	8.80	11.30	22.90	13.90	23.20	13.00	10.70	21.40	26.20
1999	6.10	0.40	0.10	6.70	7.40	10.70	8.40	12.30	6.90	23.40	10.40	17.80
2000	0.83	2.75	0.26	6.34	11.04	3.40	5.78	7.21	6.03	10.90	7.57	1.99
1911	0.00	0.08	0.01	2.68	10.71	5.80	10.25	6.33	8.38	17.89	6.38	3.27
1912	0.63	0.22	0.43	0.03	8.27	8.15	4.85	8.20	11.43	8.30	10.63	4.84
1913	0.32	0.02	0.00	4.80	6.98	7.28	4.32	6.09	9.60	6.44	10.35	8.28
1914	2.12	2.96	0.00	5.37	6.42	2.85	6.93	15.24	3.69	10.49	7.05	3.60
1915	1.41	1.48	0.89	2.84	12.59	4.39	10.13	10.53	8.02	10.17	8.77	5.86
1916	0.13	0.19	0.02	2.24	5.75	7.35	10.17	7.42	11.53	6.14	13.77	4.09
1917	1.78	0.00	1.25	4.52	6.75	5.20	5.13	3.84	7.03	9.16	9.61	0.55
1918	0.28	0.00	0.00	6.43	5.21	8.93	4.75	5.82	10.84	12.11	4.97	1.81
1919	0.00	0.00	0.09	3.02	3.31	4.83	6.18	12.22	9.14	6.48	19.22	1.94
1920	0.88	2.37	2.98	1.19	8.60	7.86	8.07	9.51	3.27	13.86	7.11	5.19
1921	1.73	2.03	1.02	0.16	9.88	7.92	5.08	1.46	8.18	9.03	8.44	3.82
1922	0.80	0.00	0.00	0.83	5.84	5.59	3.15	5.37	4.60	15.02	8.81	3.94
1923	0.00	0.05	0.07	3.72	5.51	8.41	5.97	14.46	12.55	10.38	12.36	8.31
1924	1.44	0.07	0.07	2.63	6.73	18.34	3.83	10.83	9.01	7.37	3.52	1.88
1925	0.01	0.07	0.00	0.08	4.16	12.33	9.93	10.45	8.41	9.93	9.63	8.38
1927	0.18	1.99	0.01	4.67	9.06	10.83	8.22	7.76	6.53	8.36	5.82	2.95
1928	0.02	0.32	4.07	3.38	4.20	8.78	7.91	6.87	10.44	10.70	20.51	6.95
1929	0.17	0.02	2.19	0.43	4.04	9.34	5.22	11.96	9.26	7.89	12.62	4.17
1930	0.05	0.85	0.01	6.78	9.70	2.50	4.04	4.34	7.61	8.24	5.12	2.44
1931	0.00	0.00	0.70	1.45	13.15	7.81	10.48	4.28	11.09	9.26	12.60	4.96
1932	0.38	0.46	0.13	7.56	9.39	9.23	6.29	7.61	7.23	11.60	10.18	2.66
1933	1.63	0.30	0.46	3.46	7.96	14.36	6.01	6.55	5.18	5.88	13.28	7.35
1934	4.04	0.07	0.20	5.09	4.96	10.85	5.39	4.52	16.38	11.44	12.89	2.71
1935	0.88	0.36	0.00	2.40	8.10	7.54	13.16	11.41	4.70	10.73	19.70	4.31
1936	0.83	0.00	0.36	1.64	6.36	9.12	5.94	6.14	8.62	9.48	8.29	1.84
1937	5.07	0.56	2.44	1.32	10.98	7.44	6.57	3.80	10.89	9.13	10.18	16.81
1938	2.20	0.01	0.25	1.93	12.03	9.49	7.52	11.82	8.23	12.72	11.23	7.91
1939	0.43	0.00	0.00	0.94	4.61	12.65	5.06	5.12	8.12	12.93	6.55	6.23
1940	3.14	0.11	0.75	1.05	7.26	6.03	6.23	4.59	13.99	6.43	5.35	0.20
1941	0.87	0.53	0.17	4.74	9.03	5.96	6.05	11.65	8.01	12.74	7.53	5.40
1942	0.30	0.44	1.92	2.25	12.16	5.59	6.22	5.40	8.11	7.99	8.41	11.23
1943	1.20	0.89	1.50	3.60	6.68	10.75	6.49	6.50	7.88	10.27	7.57	8.53
1944	0.79	0.00	0.00	3.59	8.35	15.37	4.85	14.47	6.08	11.29	7.76	4.10
1945	0.75	0.11	0.00	1.84	4.22	5.17	5.89	6.37	5.14	17.36	9.49	7.51
1946	1.23	0.03	1.09	0.91	2.39	4.18	7.44	6.56	2.62	14.05	8.08	5.17
1947	1.09	0.53	0.02	1.79	4.99	6.06	7.25	5.83	5.39	9.68	10.25	5.58
1948	1.26	0.02	0.00	0.11	5.17	6.32	6.39	4.12	6.56	13.63	12.76	2.33
1949	0.15	0.00	0.26	2.10	8.74	7.71	6.70	8.09	6.06	11.68	10.06	6.93
1950	0.26	0.16	1.89	1.74	9.64	11.88	12.14	8.34	3.79	7.08	10.83	4.60
1951	1.43	1.59	0.34	4.89	8.22	3.97	4.97	2.90	9.79	13.10	8.59	4.07
1952	0.41	0.11	0.11	0.58	15.06	6.49	8.49	5.06	8.60	14.81	10.85	13.46
1953	2.66	2.49	1.53	0.07	8.80	7.48	5.30	6.73	7.07	14.07	6.28	5.23
1954	0.61	0.86	0.20	3.33	8.65	13.26	8.25	8.49	8.68	14.18	13.62	3.80
1955	4.32	2.43	0.58	0.41	6.31	8.34	10.06	11.30	8.28	6.46	15.75	9.96
1956	2.63	1.22	0.40	2.23	10.81	10.10	13.08	11.51	5.00	13.44	10.17	2.62
1957	0.44	0.00	0.00	1.85	9.18	5.71	10.73	10.06	5.66	9.70	8.68	0.61
1958	0.79	0.14	0.00	3.01	10.47	5.50	6.31	9.65	13.74	9.96	12.65	2.75
1959	1.05	0.00	0.00	1.46	9.23	4.57	5.59	7.62	5.79	18.50	8.00	8.46
1960	4.47	0.88	0.56	6.83	7.28	5.36	5.61	11.74	6.03	5.74	11.14	8.46
1961	0.66	0.75	0.20	2.09	5.02	10.72	8.40	5.92	7.19	10.58	8.49	4.74
1962	0.60	0.05	0.17	0.43	5.54	10.20	5.69	6.43	5.39	13.45	13.39	8.21
1963	1.94	3.82	0.12	6.04	5.00	7.35	8.38	6.86	5.17	7.65	10.49	0.80
1964	0.00	0.46	0.00	6.54	6.72	6.07	5.38	9.62	6.91	10.55	12.01	3.12
1965	1.35	0.08	0.00	0.26	13.14	4.91	3.64	7.74	9.10	12.09	17.16	4.07
1966	2.42	0.00	0.10	3.19	13.40	13.90	11.39	3.54	10.97	23.21	9.18	5.07
1967	0.19	0.00	1.72	5.96	5.22	6.53	8.11	12.14	12.99	7.45	11.87	8.67
1968	0.00	1.73	0.78	0.57	6.84	7.74	10.42	8.04	4.67	9.76	7.43	2.92
1969	2.96	1.70	0.37	6.76	7.64	6.06	4.81	11.66	6.90	7.03	12.25	4.88
1970	3.69	0.07	0.68	3.19	12.85	5.35	5.91	6.92	8.38	8.14	7.96	7.68
1971	8.89	0.33	0.66	3.10	5.51	6.84	5.26	9.54	9.37	11.64	10.49	2.33
1972	10.37	1.56	0.47	8.52	6.87	16.97	2.67	6.35	11.20	11.35	6.53	3.23
1973	0.10	0.00	0.04	1.35	9.19	13.68	9.38	4.10	8.53	14.47	14.71	7.17
1974	1.29	1.86	0.15	0.36	7.78	6.45	9.27	6.42	5.38	11.72	8.31	1.25
1975	0.98	0.26	0.04	2.54	5.03	6.18	9.20	12.90	3.40	24.30	26.00	10.80
1976	1.00	0.00	0.20	1.00	6.80	7.20	5.30	4.40	5.30	12.70	5.00	2.60
1977	0.00	0.10	0.00	0.60	6.00	9.80	5.00	6.50	8.20	5.30	7.90	2.40
1978	0.30	0.10	2.00	6.40	7.90	11.40	4.30	7.20	9.30	11.70	11.90	7.40
1979	0.00	0.00	0.70	4.90	4.50	3.30	2.80	10.30	5.20	9.60	6.00	6.40
1980	1.30	0.50	0.00	0.80	8.10	3.20	4.60	6.80	8.40	6.50	7.50	3.00
1981	0.20	0.50	0.90	14.70	18.20	9.50	10.50	9.10	9.90	7.80	8.70	9.40
1982	3.90	0.00	0.00	4.60	5.00	4.50	8.50	6.50	11.70	10.20	6.40	1.40
1983	0.00	0.00	0.00	1.60	11.40	8.60	6.40	11.70	7.30	14.20	7.90	4.10
1984	2.40	4.20	0.20	0.70	4.50	5.70	6.60	9.50	8.40	13.30	5.80	0.00

1985	1.20	0.00	0.40	0.00	5.90	10.90	4.90	4.20	11.80	10.60	7.10	6.40
1986	1.90	0.10	0.20	4.70	7.20	6.40	5.30	5.40	9.80	13.70	8.80	4.10
1987	0.00	0.70	0.20	5.70	9.70	8.30	10.00	6.10	6.20	14.00	9.40	3.00
1988	0.00	0.10	0.20	0.40	11.00	11.70	8.70	13.80	9.60	12.30	9.60	4.70
1989	2.80	0.60	0.40	0.00	4.30	4.10	6.20	14.00	4.50	9.60	13.70	4.20
1990	1.90	0.70	0.00	2.70	11.20	10.80	11.30	7.20	5.20	9.20	5.90	4.20
1991	1.10	0.00	1.00	4.60	13.10	8.80	10.80	4.90	13.10	8.70	8.90	1.50
1992	0.00	0.20	0.00	0.30	9.20	8.20	9.00	10.30	10.40	12.50	9.90	5.70
1993	2.00	0.00	3.30	2.90	14.90	6.20	14.80	8.60	9.00	5.70	8.90	4.80
1994	0.10	1.10	2.60	2.60	11.90	8.60	4.80	8.20	4.90	11.60	14.60	3.00
1995	0.00	0.20	2.40	2.60	13.30	16.40	10.30	10.60	13.80	13.00	4.80	8.10
1996	4.80	3.00	2.70	3.50	12.40	9.40	7.50	6.10	5.50	10.10	12.30	5.00
1997	4.90	0.60	0.00	0.10	7.70	8.00	8.10	3.90	14.60	13.70	13.60	0.00
1998	0.00	0.60	0.00	2.70	11.00	10.10	8.90	7.30	9.50	8.30	6.10	6.90
1999	1.50	0.60	2.90	2.30	11.30	9.60	11.20	5.40	7.60	6.10	12.10	9.40
2000	1.70	1.40	0.50	2.60	7.80	11.00	8.00	6.50	9.10	13.10	7.60	5.90
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	1.59	1.03	0.74	0.86	5.31	6.75	8.26	13.32	11.35	16.89	14.86	10.63
1913	1.59	1.15	0.20	1.27	8.15	8.27	15.15	16.41	16.26	14.18	21.41	12.85
1914	2.98	0.68	0.52	0.31	14.69	15.15	4.02	5.29	13.92	13.54	13.92	10.39
1915	2.75	3.68	1.26	11.74	9.62	11.79	11.22	7.61	8.41	13.92	17.20	5.65
1916	0.36	4.01	2.01	4.68	13.13	7.54	10.14	15.78	11.03	14.68	9.80	3.89
1917	0.19	0.19	0.17	2.16	10.08	11.11	15.04	10.65	14.60	13.22	18.51	5.20
1918	3.04	0.33	0.17	5.63	12.10	7.65	4.39	6.99	12.24	15.57	7.76	1.68
1919	2.12	0.38	0.34	11.72	8.41	9.71	7.80	7.93	8.45	12.45	11.50	4.24
1920	0.36	0.32	0.13	0.55	7.68	9.82	14.81	10.87	9.49	19.95	9.76	1.88
1921	2.41	2.81	0.35	2.70	9.18	9.23	8.25	13.78	13.40	19.30	9.75	8.50
1922	6.16	0.41	0.21	0.53	13.25	8.10	3.85	13.35	8.95	15.65	3.53	5.73
1923	3.74	0.13	0.28	0.47	8.26	9.67	4.28	7.38	7.64	24.00	16.38	2.60
1924	0.12	2.86	0.44	5.10	10.25	12.16	13.46	9.91	9.19	11.44	15.19	4.27
1925	1.10	0.59	0.84	2.24	9.63	6.45	12.75	11.78	12.07	18.32	12.12	3.03
1926	0.03	0.75	0.07	0.56	6.11	14.20	10.26	9.61	7.78	13.77	16.95	12.22
1927	1.58	1.45	1.82	7.42	15.05	11.96	10.24	3.15	12.01	9.23	13.89	5.18
1928	0.85	0.50	1.20	2.51	12.23	11.36	7.17	18.82	8.11	12.60	15.07	7.81
1929	0.48	0.00	2.48	2.20	16.31	7.68	10.78	13.18	10.99	10.78	11.65	2.86
1930	1.37	0.97	0.05	5.52	7.58	4.98	7.50	9.64	6.08	7.15	8.73	6.81
1931	0.31	0.50	3.05	2.53	9.35	10.19	16.83	6.68	12.26	13.73	24.69	2.93
1932	0.90	0.42	0.93	7.85	8.10	9.80	13.40	12.18	7.41	12.67	32.62	7.02
1933	2.16	0.08	1.67	1.62	7.22	7.88	8.50	5.53	6.35	10.27	21.19	8.45
1934	3.49	0.29	0.46	3.06	12.08	10.10	5.78	6.33	14.23	14.60	16.15	14.20
1935	1.75	2.81	0.07	2.42	8.16	6.99	16.02	9.55	8.28	8.09	37.40	16.55
1936	0.54	0.08	1.83	1.25	19.89	5.71	13.28	8.15	10.68	18.73	8.63	1.35
1937	2.92	0.23	0.00	1.92	13.63	9.77	10.71	7.49	10.32	11.60	13.13	24.13
1938	0.68	0.89	0.47	2.83	18.34	22.47	9.00	13.08	10.45	13.92	19.55	16.85
1939	0.00	0.06	0.18	1.27	5.10	5.93	5.08	6.14	9.70	10.97	26.12	7.95
1940	4.18	1.67	1.05	0.38	10.60	8.43	8.85	7.05	7.34	11.39	7.38	1.55
1941	1.73	3.13	0.57	1.58	6.60	7.71	10.92	11.92	10.44	14.07	11.60	3.37
1942	1.40	0.81	1.79	2.01	11.40	7.70	7.27	10.30	6.59	21.20	3.90	17.44
1943	1.53	2.00	2.06	4.98	9.00	5.58	6.25	11.04	8.18	5.64	12.66	13.03
1944	2.92	0.14	0.20	2.72	9.71	9.26	8.16	9.74	9.44	15.51	9.23	12.67
1945	1.50	0.37	0.20	1.95	10.63	8.49	8.95	12.32	8.57	9.91	15.73	17.10
1946	1.10	0.14	0.55	2.25	9.40	5.54	8.77	5.69	11.76	11.79	10.90	5.27
1947	0.35	1.21	0.53	1.47	5.32	12.74	7.35	6.99	10.30	18.65	11.88	7.71
1948	1.10	0.03	0.27	0.82	6.82	6.16	10.94	9.90	9.39	11.47	14.98	1.43
1949	0.23	0.07	0.36	0.37	11.39	16.36	9.97	13.47	8.50	12.51	18.53	5.82
1950	0.14	1.49	0.46	4.30	6.92	15.23	7.58	11.43	5.39	10.60	17.43	11.09
1951	1.66	2.92	0.18	5.24	8.84	4.51	5.13	14.37	7.57	11.30	10.29	8.47
1952	1.88	0.48	0.09	4.28	10.15	8.72	6.73	4.19	3.96	14.07	12.07	12.06
1953	3.91	0.65	0.78	4.08	10.99	8.38	7.66	7.52	6.67	16.00	12.12	3.96
1954	1.23	1.11	0.94	5.35	11.61	9.18	13.62	11.19	7.49	11.28	16.16	4.88
1955	9.32	0.40	1.54	0.12	12.10	11.16	8.71	12.32	7.10	6.51	13.88	10.09
1956	6.23	2.09	2.96	1.60	10.27	5.59	14.46	8.16	11.80	15.44	9.52	3.51
1957	0.30	0.42	0.14	0.04	12.44	7.43	8.49	8.95	8.03	18.10	8.44	4.86
1958	2.65	1.87	1.80	1.29	10.23	4.55	6.85	11.23	7.06	14.07	5.66	4.09
1959	0.17	0.02	0.05	1.66	6.59	7.29	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	1.80	-1.00	-1.00	9.40	8.90	15.20	9.60	-1.00	-1.00	-1.00	-1.00

	1.00	1.30	2.00	0.00	17.30	5.10	5.80	9.50	15.30	10.50	10.70	0.70
1971	-1.00	1.30	2.00	0.00	8.10	7.60	10.50	4.30	7.40	9.40	10.90	11.00
1972	4.90	1.20	1.00	0.50	9.00	6.90	11.80	9.10	11.60	11.50	16.30	6.20
1973	1.10	0.50	0.00	0.50	1.20	4.20	9.90	13.00	12.30	7.20	20.20	3.50
1974	0.40	0.10	0.50	1.20	1.00	10.20	7.70	8.20	12.40	5.50	13.50	18.20
1975	0.00	0.60	2.50	1.00	10.20	7.70	8.20	8.60	15.30	16.20	5.60	2.00
1976	1.20	1.40	0.20	3.50	6.40	9.60	2.00	8.60	14.60	13.30	14.10	1.90
1977	0.60	0.50	0.50	0.20	7.90	8.10	5.70	17.90	14.60	13.70	9.30	1.90
1978	0.60	0.50	1.80	7.50	10.80	11.20	11.10	14.00	8.20	13.70	9.30	4.20
1979	0.10	0.80	0.10	5.30	4.70	10.10	12.00	14.60	10.20	7.90	13.00	6.90
1980	4.10	1.80	0.00	0.60	9.60	6.70	6.60	8.30	5.60	9.10	14.00	14.40
1981	13.30	0.80	2.00	12.60	20.30	12.40	12.80	13.30	7.30	14.50	13.70	13.70
1982	3.20	0.00	0.40	5.00	6.30	6.10	5.70	10.70	7.00	10.60	4.40	0.70
1983	0.40	0.10	2.00	6.50	11.00	5.50	6.30	8.90	8.00	12.90	7.30	0.80
1984	3.60	1.40	0.50	2.10	8.10	12.90	6.40	12.90	11.80	14.80	17.10	0.80
1985	0.80	0.80	0.10	0.40	4.10	9.50	6.40	8.80	13.70	8.30	11.80	7.40
1986	0.60	0.40	0.80	3.10	3.40	9.20	5.00	10.10	10.80	19.50	5.90	1.20
1987	0.70	1.20	0.10	5.60	13.80	5.80	11.20	9.30	13.60	15.00	8.00	4.80
1988	0.00	0.60	0.10	0.40	7.40	9.20	7.40	10.10	17.90	12.70	12.30	7.10
1989	1.50	1.50	0.90	0.70	8.00	7.00	5.30	6.00	4.80	5.40	5.10	6.10
1990	1.50	0.10	1.30	2.10	11.90	5.30	9.10	7.80	11.00	18.90	12.60	8.90
1991	0.30	0.70	3.50	0.50	10.90	9.10	8.00	10.90	12.10	11.00	10.50	2.90
1992	0.60	0.20	0.30	5.10	11.20	13.60	9.00	12.30	12.50	13.50	10.60	5.40
1993	2.90	0.40	0.90	3.10	8.80	8.10	11.60	8.30	9.70	12.80	15.00	7.60
1994	3.00	0.10	2.10	1.00	11.20	9.30	4.50	11.00	9.50	9.00	16.80	2.00
1995	2.90	0.40	0.20	2.70	15.60	12.30	13.60	5.80	6.20	11.90	11.40	9.00
1996	10.10	4.60	4.50	1.00	11.40	6.20	11.20	8.60	10.70	11.20	12.80	2.50
1997	0.50	0.80	0.10	0.40	7.80	10.70	5.10	2.40	11.30	9.70	4.10	6.70
1998	0.10	0.20	0.40	4.30	9.40	11.70	7.60	10.80	12.40	12.20	10.30	9.90
1999	3.40	1.20	4.50	3.40	2.90	13.40	6.80	10.00	11.70	9.10	12.00	17.30
2000	3.70	1.20	0.00	3.40	9.60	11.20	5.70	7.80	8.00	14.20	8.80	13.50
2011	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	2.52	0.87	1.00	2.26	-1.00	-1.00	10.98	10.44	10.50	16.63	19.36	10.55
1935	8.98	2.46	2.51	4.83	15.86	10.29	23.32	14.78	10.56	15.89	55.36	20.14
1936	2.12	0.91	1.54	4.48	19.01	8.79	16.22	15.96	11.49	10.69	20.43	2.62
1937	9.98	2.25	1.14	3.41	17.03	15.96	17.27	12.99	12.82	14.59	17.66	24.07
1938	2.14	2.73	0.87	11.67	26.36	18.53	9.85	17.37	13.80	6.95	11.38	22.28
1939	1.00	0.30	1.48	2.31	6.14	13.05	7.07	19.05	12.23	7.66	20.28	11.22
1940	6.35	3.59	1.82	1.90	13.99	11.95	11.33	18.54	11.29	14.29	16.61	2.39
1941	2.68	5.55	3.38	2.46	13.85	14.05	12.20	16.93	9.82	31.73	19.65	4.26
1942	2.02	1.52	5.26	6.96	12.27	23.00	10.81	16.55	10.69	21.92	7.75	13.17
1943	4.15	6.69	1.16	7.51	11.23	13.75	9.53	14.94	16.57	11.81	9.51	22.49
1944	3.66	3.60	0.89	10.12	14.43	9.66	19.79	19.99	10.21	19.04	16.56	28.49
1945	3.24	1.50	0.66	3.65	13.05	20.36	14.28	16.82	9.79	8.89	11.33	14.69
1946	0.89	1.72	1.26	1.91	16.61	12.24	18.72	10.74	17.92	12.47	5.89	20.58
1947	0.79	1.99	0.86	6.78	5.89	15.21	10.07	13.55	10.32	13.68	9.61	9.77
1948	2.15	0.51	0.76	1.17	8.90	16.22	12.81	10.24	8.70	11.35	22.51	3.71
1949	0.92	1.50	1.16	4.68	9.89	21.31	16.07	14.12	18.10	14.17	15.55	9.19
1950	1.91	3.88	1.01	10.69	11.96	11.54	20.15	17.56	16.61	7.11	14.27	17.56
1951	2.04	12.73	1.28	9.08	14.52	11.07	11.79	14.61	10.81	14.20	10.05	10.28
1952	4.43	1.14	0.34	8.21	14.65	10.07	17.95	18.53	15.00	27.80	8.38	15.14
1953	12.70	2.02	2.24	5.14	15.47	7.19	14.45	10.64	6.27	15.81	12.86	11.95
1954	2.02	2.92	1.84	5.40	14.74	16.43	16.38	14.21	15.69	9.61	21.67	15.99
1955	15.89	0.91	2.78	1.05	8.90	7.87	15.34	24.73	12.78	7.98	28.65	10.70
1956	12.56	2.77	4.82	4.68	22.83	15.35	17.71	13.56	12.91	12.45	21.29	6.10

1957	1.30	1.31	0.10	0.33	11.58	8.75	7.49	11.37	10.59	13.76	23.03	8.49
1958	6.14	3.41	4.70	1.50	12.75	12.63	21.24	13.14	14.94	11.65	14.15	8.22
1959	1.31	0.49	0.33	3.80	7.82	12.88	12.32	10.84	15.90	13.31	18.30	31.69
1960	6.21	1.28	3.70	13.13	16.95	9.82	9.50	12.67	16.02	10.13	12.58	19.91
1961	1.72	0.74	0.71	6.48	8.44	18.58	10.34	12.61	11.26	16.53	11.73	4.23
1962	2.96	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	10.30	10.01
1963	-1.00	5.54	0.60	12.75	18.44	15.85	13.15	18.49	-1.00	-1.00	12.32	3.25
1964	0.54	0.95	0.36	5.34	11.44	-1.00	-1.00	-1.00	-1.00	12.00	14.30	2.30
1965	4.56	1.02	0.53	0.25	16.22	13.15	7.25	7.17	12.18	15.75	16.05	12.64
1966	5.14	0.64	1.32	16.45	12.18	12.18	11.16	13.08	10.68	14.20	28.66	18.10
1967	3.33	1.02	1.79	12.67	10.41	21.89	15.18	13.27	13.81	15.91	16.22	13.67
1968	0.60	3.16	3.41	2.93	16.34	13.21	12.20	10.44	8.95	16.08	11.13	5.36
1969	2.67	1.31	2.27	10.80	10.79	6.66	8.54	14.12	17.81	6.27	8.44	17.58
1970	19.68	4.17	2.95	12.96	19.29	7.49	10.92	18.81	8.95	12.51	17.50	25.40
1971	3.30	1.90	7.30	1.30	11.30	18.40	16.20	14.30	10.80	12.10	14.40	3.20
1972	19.20	1.80	1.00	8.50	14.50	11.00	7.80	9.90	10.90	12.60	9.80	8.20
1973	2.30	1.30	0.10	1.00	12.40	9.00	17.10	16.30	10.70	11.40	23.00	12.80
1974	2.10	0.80	1.10	1.70	10.40	8.20	14.90	7.90	12.80	12.40	15.30	2.90
1975	1.60	0.50	0.70	0.30	12.60	23.30	15.20	17.20	15.60	17.60	14.00	16.40
1976	3.00	1.80	2.30	6.70	11.10	1.90	1.70	5.90	15.20	8.30	9.30	3.20
1977	3.40	0.40	0.80	1.20	7.50	12.50	11.20	19.10	12.10	21.10	12.80	6.10
1978	1.00	3.30	3.10	13.40	13.80	18.60	11.50	11.00	13.60	13.10	17.10	4.20
1979	0.60	1.90	2.40	11.50	11.50	11.20	9.50	9.60	6.50	9.20	15.10	13.50
1980	8.30	5.00	0.90	2.80	13.40	14.50	7.80	13.20	11.70	15.60	12.00	9.80
1981	15.50	4.10	3.70	28.00	14.00	13.40	20.40	9.60	7.20	14.90	11.90	15.90
1982	5.10	0.90	0.60	5.50	8.10	13.20	17.80	12.00	9.80	16.50	5.40	2.50
1983	1.60	0.80	1.60	6.50	14.50	12.00	5.70	9.30	17.60	20.90	7.60	21.80
1984	2.60	1.40	0.30	1.40	8.70	18.40	13.90	17.40	14.20	10.10	6.90	8.10
1985	2.90	1.90	3.10	3.20	7.60	14.30	9.60	5.90	15.20	12.40	10.80	13.50
1986	3.60	0.50	2.30	12.50	15.40	14.10	4.70	10.90	17.50	11.20	7.80	2.90
1987	2.00	2.90	0.30	20.70	21.90	14.70	18.70	14.50	14.10	19.70	20.70	4.80
1988	1.10	3.30	1.60	1.30	13.00	12.70	20.00	13.90	5.00	13.50	9.40	9.10
1989	2.70	7.00	1.20	1.40	11.80	6.80	17.40	18.20	10.30	12.30	13.50	10.50
1990	6.30	1.20	4.00	3.50	15.90	8.00	11.50	15.50	12.40	22.10	12.30	8.80
1991	0.50	2.30	2.00	4.30	16.00	11.20	11.00	14.00	18.10	15.80	24.30	4.50
1992	2.00	1.00	1.30	11.40	27.60	10.90	13.30	20.50	16.90	10.70	11.10	6.20
1993	4.90	1.00	11.00	13.90	9.90	24.10	7.80	7.40	18.10	19.70	11.30	6.20
1994	1.60	1.70	4.70	0.80	17.20	20.80	12.40	20.50	11.40	11.00	20.40	3.50
1995	6.20	0.60	0.80	5.40	11.40	21.70	19.10	8.50	8.10	13.10	15.50	15.50
1996	15.30	4.90	3.30	7.80	16.60	16.60	8.00	14.00	13.50	10.20	25.50	18.80
1997	1.80	2.40	0.20	0.00	15.70	10.40	7.60	2.10	9.60	16.10	6.90	1.00
1998	1.50	1.80	0.90	7.40	13.00	15.90	15.30	19.20	15.10	12.80	11.40	17.20
1999	4.30	9.50	5.80	13.20	15.00	14.30	17.90	12.90	20.60	13.90	13.20	39.40
2000	5.00	2.90	1.60	3.60	10.70	18.10	7.80	13.80	10.20	18.40	7.80	25.80
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	4.71	7.00	16.81	10.16	10.10	12.00	12.51	9.97	10.08	
1947	-1.00	-1.00	-1.00	-1.00	4.71	7.00	16.81	10.16	10.10	12.00	12.51	9.97	10.08	
1948	2.93	0.00	2.09	1.18	15.40	8.80	14.57	15.92	11.59	9.43	12.98	1.34		
1949	0.22	0.00	0.64	1.06	10.47	11.16	10.63	11.49	11.98	16.37	32.60	13.99		
1950	0.13	2.33	1.92	5.11	6.21	15.13	17.90	16.46	11.84	11.79	28.61	32.25		
1951	2.17	7.37	1.00	4.59	19.45	6.02	15.47	15.42	15.35	24.05	17.78	17.61		
1952	1.48	0.29	0.01	4.49	21.25	16.45	16.09	15.45	15.64	14.91	8.39	20.07		
1953	4.34	2.90	1.22	3.02	9.78	9.11	16.15	14.13	8.86	27.16	17.71	5.92		
1954	0.36	1.18	0.62	4.05	13.42	14.78	21.90	16.58	18.58	13.13	22.72	11.09		
1955	9.26	2.75	0.77	0.17	12.59	13.46	11.52	16.46	10.80	20.51	23.43	8.26		
1956	7.93	1.80	7.49	4.03	27.47	7.83	14.78	13.50	13.93	19.89	18.10	5.01		
1957	0.26	0.73	0.00	0.56	8.30	8.95	6.67	9.12	14.75	23.50	20.88	4.74		
1958	6.41	3.35	2.23	4.86	7.09	10.40	12.30	8.17	11.81	11.32	10.54	6.00		
1959	0.27	0.00	0.29	3.15	9.93	10.05	8.27	12.07	18.72	18.70	17.39	34.20		
1960	3.66	0.36	7.25	13.75	14.96	11.50	13.00	11.81	7.19	17.70	16.05	28.97		
1961	1.35	0.35	0.16	4.61	9.90	16.87	12.26	15.88	13.74	19.90	19.09	4.13		
1962	2.48	0.46	0.95	5.68	27.66	9.24	10.56	9.26	11.22	-1.00	-1.00	-1.00		
1963	12.74	0.93	0.82	3.11	11.69	12.63	13.65	17.49	12.06	-1.00	19.58	4.21		
1964	1.17	-1.00	2.69	6.51	15.37	-1.00	-1.00	-1.00	-1.00	23.50	25.00	-1.00		
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	18.49	31.78	47.72	12.25		
1966	3.95	-1.00	-1.00	6.71	-1.00	11.56	18.41	-1.00	-1.00	12.11	36.56	38.66		
1967	0.28	0.47	0.51	4.63	13.44	19.03	13.42	12.31	10.57	18.70	29.40	6.82		
1968	0.06	3.97	2.75	1.14	10.59	9.69	8.74	16.48	12.19	20.76	21.80	1.13		
1969	2.43	0.83	1.89	3.97	17.83	4.80	20.41	17.35	20.28	12.32	15.74	21.88		
1970	17.75	4.14	1.79	13.69	13.63	10.15	15.77	11.40	11.56	25.14	29.70	24.59		
1971	8.42	1.30	2.34	0.05	-1.00	14.88	18.00	13.90	4.00	16.90	12.90	1.10		
1972	11.90	2.40	1.10	7.10	9.60	10.40	6.90	8.30	10.40	26.30	12.20	6.90		
1973	1.90	0.80	0.30	0.50	8.40	11.50	15.80	12.10	16.50	13.40	20.10	4.60		
1974	0.30	0.80	-1.00	-1.00	11.70	15.90	11.80	6.50	10.90	34.70	21.70	8.80		
1975	0.80	1.20	4.80	0.50	9.80	11.70	8.20	18.40	9.40	23.80	12.90	15.50		
1976	0.90	0.60	0.10	9.20	10.70	8.70	4.60	8.00	13.50	19.00	13.90	0.50		
1977	1.60	0.60	0.60	2.60	15.70	7.40	8.20	21.10	12.70	24.30	24.10	6.00		
1978	2.20	2.50	1.60	14.90	8.00	10.10	14.80	15.30	6.40	16.80	13.10	3.80		
1979	0.20	1.30	0.30	11.60	12.80	10.40	11.30	10.70	9.90	15.20	19.90	7.70		
1980	7.40	3.80	0.20	1.00	11.50	11.60	7.60	16.60	5.30	11.30	12.80	7.80		
1981	18.40	2.60	3.20	19.50	21.60	16.90	10.90	15.30	7.30	17.30	26.20	32.70		
1982	8.10	0.10	0.00	5.00	12.90	10.00	9.30	6.50	19.10	25.30	6.90	1.70		
1983	1.10	0.00	0.10	0.80	12.90	14.80	10.30	7.30	14.30	13.50	15.80	15.30		
1984	4.40	2.00	0.30	1.90	9.90	12.20	7.50	14.10	8.70	21.80	27.20	1.20		
1985	1.70	2.00	1.00	0.90	14.30	11.70	10.10	12.60	9.50	21.30	10.50	18.70		
1986	2.80	0.40	2.10	3.90	10.90	17.20	10.20	11.30	15.10	28.60	7.10	6.10		
1987	1.00	3.20	0.20	14.70	31.00	22.60	10.40	18.50	15.50	35.70	31.10	15.30		
1988	0.10	3.90	1.50	1.50	27.60	9.80	16.90	12.90	16.30	24.80	11.70	9.40		
1989	0.80	9.90	1.30	0.60	14.50	8.00	13.70	10.50	5.70	18.70	19.20	18.40		
1990	0.80	0.20	2.20	2.60	16.40	11.80	11.80	12.50	18.90	23.00	11.40	5.00		
1991	0.60	1.70	0.00	2.10	10.50	11.50	9.60	8.70	11.00	8.00	20.10	5.30		
1992	1.60	0.10	0.50	7.40	23.90	10.40	9.30	14.60	20.60	9.60	7.70	5.50		
1993	4.80	1.20	5.60	3.20	7.60	11.80	10.70	13.10	16.40	18.80	15.20	5.40		
1994	4.20	0.60	3.60	1.40	8.30	18.80	10.10	12.10	11.80	13.10	16.00	1.30		
1995	7.40	1.20	1.40	10.80	13.80	10.10	13.90	13.10	15.70	11.80	15.10	8.80		
1996	16.20	1.50	3.00	4.20	9.70	20.90	7.90	11.50	9.80	6.20	27.30	6.80		
1997	0.90	0.30	0.20	0.60	17.60	9.70	2.80	8.90	11.30	7.90	13.70	1.20		
1998	0.60	0.20	0.50	8.20	14.60	15.50	12.00	14.20	11.40	11.80	12.80	16.70		
1999	1.90	2.60	6.30	10.20	9.60	16.10	11.50	15.10	12.30	11.50	26.60	28.90		
2000	6.30	0.30	0.30	2.90	14.90	22.10	11.40	12.10	12.00	32.40	8.10	22.40		
2011	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2012	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2013	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2014	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2015	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2016	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2017	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2018	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2019	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2020	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2021	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2022	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2023	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2024	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2025	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2026	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2027	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2028	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		

1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	20.21	23.64	4.39	
1933	1.06	0.05	-1.00	0.29	10.58	5.49	12.01	13.27	12.16	10.41	18.83	8.77	
1934	0.95	0.00	0.28	1.94	17.31	9.47	11.54	10.80	9.71	15.34	15.15	5.78	
1935	2.11	0.99	0.35	0.90	14.36	15.11	22.05	19.11	10.49	11.88	42.59	10.88	
1936	0.62	0.17	0.17	2.64	16.51	11.25	12.68	11.82	16.89	12.68	10.30	2.39	
1937	5.00	0.36	0.27	2.15	7.07	7.40	15.45	12.53	16.61	18.67	16.70	19.54	
1938	0.30	0.86	0.37	4.39	24.29	12.02	14.70	23.35	13.15	18.74	12.30	14.00	
1939	0.19	0.00	0.42	0.19	5.88	12.52	3.83	10.24	16.02	15.47	22.32	10.39	
1940	1.54	1.18	0.32	0.81	5.46	7.32	4.66	11.40	12.66	14.57	14.32	0.42	
1941	0.80	3.92	1.20	2.43	10.56	14.63	13.43	12.77	14.57	16.92	14.50	4.46	
1942	0.71	0.23	0.21	2.37	12.21	12.98	11.29	12.72	15.34	17.40	12.19	13.11	
1943	1.71	1.22	1.18	3.26	11.99	10.92	8.81	10.35	17.33	18.45	10.10	12.12	
1944	1.51	0.20	0.30	7.45	11.46	12.12	14.65	16.08	9.99	19.79	7.49	9.15	
1945	0.58	0.20	0.23	2.75	9.05	13.01	17.70	21.77	7.27	10.95	14.25	9.04	
1946	0.67	0.27	0.23	0.30	14.50	14.30	15.33	8.75	14.91	12.12	12.36	9.51	
1947	0.34	0.74	0.34	1.35	7.50	13.94	12.56	13.20	12.60	18.86	17.13	7.04	
1948	0.67	0.19	0.15	1.13	6.92	11.10	22.05	5.85	9.70	14.62	13.66	3.97	
1949	0.38	0.24	0.15	1.75	11.60	19.50	17.52	12.06	13.14	17.00	14.46	4.56	
1950	0.31	0.91	0.50	4.57	16.58	16.08	16.00	16.75	11.42	8.47	17.44	14.77	
1951	0.64	5.53	0.25	5.68	14.79	10.54	11.40	14.16	17.66	14.05	11.02	2.96	
1952	1.34	0.32	0.02	6.02	12.02	9.56	11.31	10.29	17.73	19.42	10.13	10.26	
1953	5.58	0.36	0.80	5.88	16.11	10.41	16.16	9.30	10.95	16.16	15.01	6.52	
1954	0.20	0.65	1.08	1.05	19.69	14.48	16.77	12.27	15.33	9.76	13.47	4.23	
1955	6.89	0.29	1.37	0.03	5.50	14.13	13.85	22.68	10.85	10.61	16.73	5.17	
1956	6.73	1.04	0.96	1.71	13.10	11.40	17.52	9.85	10.00	16.10	16.68	3.80	
1957	0.10	0.40	0.06	0.06	4.01	7.90	9.01	6.99	8.54	18.21	14.33	1.84	
1958	2.62	0.37	0.96	1.51	13.72	15.99	13.93	10.58	11.19	9.21	11.09	2.65	
1959	0.33	0.03	0.06	0.45	4.34	13.28	5.21	10.95	11.47	11.58	6.99	14.93	
1960	4.22	0.10	0.81	2.58	19.79	11.10	15.31	13.16	11.92	23.71	13.04	19.13	
1961	0.36	0.05	0.15	3.84	8.28	14.26	10.15	15.83	16.42	13.17	10.50	8.13	
1962	0.50	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9.70	4.80	
1963	3.50	0.83	0.01	7.17	9.63	15.07	15.79	18.68	9.24	8.61	9.18	0.33	
1964	0.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	20.10	12.70	4.60	
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1966	-1.00	-1.00	-1.00	-1.00	5.98	10.72	8.96	17.41	12.64	16.56	20.33	21.49	19.30
1967	0.64	0.04	0.11	6.52	-1.00	-1.00	15.27	11.59	14.49	18.11	14.53	5.72	
1968	0.11	1.04	0.10	1.08	9.68	13.83	9.34	14.96	11.81	24.65	11.44	2.02	
1969	1.18	0.00	1.40	1.67	6.69	9.12	7.26	20.16	16.02	7.56	12.47	8.53	
1970	10.68	1.19	1.36	11.80	16.92	6.65	14.21	17.01	16.11	12.06	12.15	15.25	
1971	1.96	0.27	2.92	0.90	12.10	12.50	15.70	16.90	13.90	13.10	12.10	0.50	
1972	2.70	0.60	0.10	7.60	8.40	11.90	2.90	6.00	10.90	11.10	9.90	3.20	
1973	0.30	0.20	0.00	0.30	10.60	11.80	11.00	13.40	14.30	16.80	18.70	5.20	
1974	0.40	9.00	0.10	1.20	4.80	20.40	6.80	10.30	14.00	14.40	9.60	1.20	
1975	0.00	0.10	0.10	0.90	10.20	9.70	13.90	12.10	11.20	16.80	13.10	6.70	
1976	0.60	0.20	0.40	3.10	10.70	11.60	4.00	13.60	9.90	9.40	8.80	1.40	
1977	0.90	0.10	0.10	0.50	10.50	11.00	4.40	14.30	11.50	16.30	8.90	2.50	
1978	0.70	0.20	0.90	6.80	10.60	18.40	13.50	14.70	9.50	11.10	11.20	2.70	
1979	0.20	0.10	0.10	7.60	6.00	7.00	20.60	14.60	9.40	11.70	10.70	3.00	
1980	1.40	1.40	0.90	0.90	8.90	9.90	6.90	15.60	9.20	12.40	14.40	3.80	
1981	2.10	0.40	1.40	13.70	10.60	13.70	12.30	15.30	7.60	9.00	9.50	9.60	
1982	3.20	0.00	0.00	3.00	9.20	7.90	11.30	6.20	9.00	16.60	5.00	2.10	
1983	0.40	0.00	0.90	4.40	6.20	8.20	8.20	9.70	16.40	23.10	19.50	12.40	
1984	0.40	0.20	0.30	0.00	12.60	18.90	11.20	21.80	8.60	19.30	12.60	1.30	
1985	1.20	0.40	0.90	1.90	6.80	21.40	15.90	10.00	16.10	11.80	7.30	10.80	
1986	0.60	0.10	0.80	4.80	5.50	11.00	5.50	7.60	10.20	26.80	10.30	1.40	
1987	0.50	0.60	0.10	9.80	16.40	11.30	19.70	15.00	17.90	18.40	13.80	4.80	
1988	0.10	1.00	0.50	1.80	13.50	8.80	17.90	18.80	18.50	20.40	14.20	3.80	
1989	0.80	2.10	0.20	1.00	6.30	14.30	12.80	15.20	7.90	12.60	14.10	5.20	
1990	2.40	0.20	0.80	0.80	8.30	5.90	10.20	16.20	14.50	24.70	13.80	6.10	
1991	0.40	0.40	1.90	4.50	12.60	10.60	8.80	10.10	10.30	12.30	10.40	4.70	
1992	0.40	0.20	0.30	3.70	16.50	21.50	13.80	15.80	10.30	11.80	5.90	4.00	
1993	1.60	0.10	2.30	5.80	10.70	20.30	7.00	6.50	15.40	14.70	6.60	2.80	
1994	0.70	0.20	1.00	1.40	10.30	12.20	6.90	9.60	11.60	16.00	11.60	0.70	
1995	0.60	0.00	1.60	3.30	12.00	14.00	9.70	16.70	9.30	15.30	11.90	5.90	
1996	10.00	1.10	1.20	5.00	11.90	21.10	7.20	13.40	16.00	13.30	15.20	5.70	
1997	0.40	0.30	0.10	2.50	5.30	11.90	7.40	4.70	12.50	11.20	14.80	0.20	
1998	0.20	0.10	0.20	2.50	16.30	13.00	15.00	11.30	15.70	15.80	15.40	11.30	
1999	1.50	2.80	0.60	2.10	14.20	15.00	14.00	12.10	11.40	13.90	17.40	18.60	
2000	1.70	0.10	0.20	2.60	8.90	15.90	6.50	18.10	13.10	18.80	6.20	19.70	
1911	0.99	1.81	1.41	3.06	17.13	15.58	14.58	11.60	11.62	16.53	15.81	2.63	
1912	0.28	1.81	0.66	0.75	12.03	15.90	13.13	9.87	12.23	17.65	21.81	11.47	
1913	6.71	1.75	0.79	2.69	22.60	11.81	15.13	17.91	9.90	18.63	16.75	6.55	
1914	1.35	1.32	0.91	4.12	17.76	16.30	10.74	16.01	14.80	22.16	18.35	8.88	

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
1915	3.41	12.37	1.71	10.42	7.75	16.01	20.72	12.89	13.85	21.86	22.33	9.45		
1916	2.33	1.96	2.68	6.25	9.38	14.28	10.44	8.34	10.41	17.59	14.08	5.71		
1917	1.10	0.45	0.76	1.87	12.11	14.37	13.58	15.79	17.67	7.87	20.49	11.66		
1918	3.28	0.67	0.41	5.34	19.26	8.56	10.36	18.85	15.34	27.07	14.23	1.90		
1919	1.82	0.36	0.61	10.95	6.95	12.08	13.60	6.77	11.74	21.94	6.63	7.37		
1920	0.51	0.54	1.08	1.72	5.48	13.29	17.58	23.04	6.81	17.16	21.27	2.06		
1921	1.31	1.63	0.98	7.43	13.61	15.18	10.49	18.45	11.21	8.27	19.96	6.50		
1922	6.85	0.71	0.92	2.11	8.88	8.30	4.40	14.53	12.73	13.87	15.63	7.20		
1923	1.98	0.69	0.36	1.21	11.18	15.17	10.33	15.35	12.31	42.17	22.16	5.12		
1924	0.61	2.80	0.71	10.85	14.86	16.49	20.63	7.42	9.00	21.56	30.29	8.84		
1925	3.66	0.73	0.31	5.47	8.23	13.77	21.08	7.71	8.17	16.49	22.95	6.04		
1926	0.70	1.78	0.43	0.34	13.73	31.23	16.15	20.84	10.45	15.31	29.39	7.60		
1927	4.60	3.21	1.27	6.93	14.11	13.74	18.64	26.63	17.32	13.12	28.35	16.70		
1928	1.71	0.71	2.42	0.86	12.72	16.22	10.29	24.49	15.46	18.02	17.20	16.43		
1929	0.81	0.56	2.59	0.67	10.07	18.96	18.67	23.78	7.90	13.74	8.99	7.87		
1930	2.46	0.75	1.07	6.85	14.21	9.40	8.99	14.35	10.88	7.26	16.94	7.86		
1931	2.01	0.97	4.48	4.30	17.71	9.26	13.36	17.52	8.24	20.42	30.31	3.47		
1932	1.44	0.95	2.69	2.23	16.55	14.36	17.45	12.10	7.15	16.75	37.13	7.64		
1933	2.10	0.08	1.11	0.35	8.12	15.88	9.88	8.27	9.11	19.84	43.06	18.46		
1934	3.94	0.55	1.10	5.48	11.94	9.89	2.00	13.86	21.30	17.49	28.81	15.66		
1935	5.81	3.10	0.80	1.87	17.16	16.26	26.23	14.72	21.31	8.90	42.73	13.02		
1936	1.54	0.13	0.87	3.29	12.86	10.57	18.72	13.78	14.58	11.36	23.11	3.53		
1937	4.20	0.46	0.32	1.65	20.99	26.91	9.50	13.26	14.09	16.58	23.23	32.94		
1938	2.27	1.11	1.68	6.25	12.74	18.01	22.25	22.32	10.50	17.26	18.90	29.29		
1939	0.48	0.50	0.64	1.00	6.28	12.60	6.67	11.66	16.91	17.52	35.18	17.08		
1940	2.67	1.83	0.63	1.83	11.00	14.41	15.90	19.04	13.77	16.28	20.91	4.25		
1941	3.25	2.87	2.27	0.36	8.97	11.55	20.89	16.95	19.76	25.17	24.07	6.11		
1942	1.52	0.69	3.30	8.33	8.95	18.59	17.35	10.74	21.62	31.65	12.60	23.75		
1943	2.18	2.58	1.15	3.92	16.27	12.18	10.44	20.00	10.51	10.23	21.69	15.08		
1944	1.23	2.96	0.18	8.93	25.43	6.31	11.82	18.40	4.40	20.15	16.41	22.36		
1945	1.89	0.87	0.43	1.90	8.15	6.62	19.81	17.66	11.58	18.33	24.29	20.59		
1946	2.08	0.75	0.80	0.55	5.38	9.63	12.31	13.28	14.12	15.37	25.54	26.71		
1947	0.37	1.78	0.37	6.68	7.23	9.37	12.72	17.10	14.52	17.71	12.43	12.32		
1948	0.83	0.14	1.21	1.57	7.29	9.34	15.82	11.52	11.35	15.11	22.40	4.32		
1949	0.88	0.32	0.48	2.07	11.23	12.72	12.61	15.60	9.64	17.72	36.65	15.86		
1950	0.87	3.97	2.17	4.26	7.23	13.84	17.22	16.77	10.25	13.74	39.12	19.77		
1951	0.89	5.62	0.60	8.48	11.08	10.84	12.85	12.95	10.16	19.15	10.62	11.14		
1952	3.26	0.93	0.03	6.97	15.70	18.12	20.88	20.31	9.76	21.12	20.76	19.97		
1953	6.85	2.01	1.75	2.38	8.45	5.93	17.95	11.59	12.27	18.41	21.87	9.11		
1954	1.38	1.72	0.67	4.29	12.44	15.13	17.24	19.43	10.66	9.76	27.50	10.43		
1955	11.18	1.79	1.33	0.44	13.43	10.90	9.58	13.41	3.14	13.99	23.95	14.20		
1956	10.25	1.42	4.43	2.39	18.27	9.74	24.77	14.86	11.70	15.66	29.72	6.71		
1957	1.06	0.39	0.47	0.08	6.16	11.87	11.09	21.19	11.48	8.39	27.94	7.01		
1958	6.69	3.35	5.61	5.10	6.57	7.85	19.03	12.76	15.76	26.14	14.57	7.64		
1959	3.13	0.04	0.40	3.96	13.88	9.28	15.41	11.18	21.34	10.23	15.94	22.14		
1960	2.70	0.61	4.73	10.38	24.18	12.65	10.92	10.99	8.42	19.31	32.04	29.18		
1961	0.68	0.22	0.75	2.27	9.44	10.13	9.98	10.34	12.90	15.42	21.94	8.96		
1962	2.29	0.59	0.72	2.23	23.05	6.62	24.34	18.01	13.14	11.64	25.35	17.85		
1963	7.05	6.39	0.38	2.28	13.22	13.61	8.94	13.70	11.22	6.34	22.72	3.50		
1964	0.74	0.65	0.55	3.39	9.39	17.58	18.68	18.80	13.58	11.78	14.36	2.03		
1965	4.82	1.42	0.08	2.22	12.10	9.17	9.79	20.31	14.12	23.70	25.78	7.62		
1966	1.11	0.57	2.63	6.49	15.44	3.38	13.84	20.26	13.36	14.90	35.08	13.90		
1967	0.93	0.42	0.52	2.94	7.74	18.06	16.52	8.56	11.95	18.84	27.65	10.44		
1968	0.21	1.57	2.48	0.53	8.88	11.61	19.49	13.67	14.95	12.90	13.38	3.48		
1969	2.54	1.02	2.06	1.21	20.30	5.69	13.95	20.21	18.35	11.01	15.81	15.35		
1970	9.21	2.09	1.72	14.75	21.05	9.73	19.64	12.02	13.43	11.80	32.21	18.65		
1971	7.39	1.66	2.91	0.30	9.97	21.90	9.97	15.70	15.20	13.00	14.40	1.10		
1972	11.90	2.40	0.60	13.40	6.90	15.00	8.60	12.60	10.10	22.00	8.00	6.20		
1973	3.00	0.10	0.20	1.10	10.50	10.90	17.60	15.10	14.40	13.60	16.50	8.00		
1974	0.40	0.50	0.40	0.80	7.80	24.30	18.50	9.60	5.40	23.40	34.50	5.00		
1975	0.20	1.00	1.70	0.40	4.20	14.60	11.50	17.90	11.20	22.50	12.80	20.40		
1976	1.10	0.60	0.20	4.80	6.60	15.30	5.30	14.40	9.00	20.80	12.20	1.30		
1977	1.00	0.70	0.10	1.90	14.00	12.30	8.10	22.20	11.60	21.30	23.70	4.20		
1978	1.80	1.40	1.70	11.50	5.30	20.60	8.40	14.00	8.20	19.60	10.70	2.20		
1979	0.30	0.80	0.00	13.50	17.00	17.20	12.80	11.80	11.50	-1.00	-1.00	-1.00		
1980	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	13.20	16.40	11.80	13.10		
1981	2.50	0.20	2.30	14.20	21.00	17.30	15.00	20.60	5.60	22.10	37.60	14.20		
1982	11.40	1.40	0.60	6.50	5.60	10.20	14.10	7.90	12.20	15.80	7.90	0.50		
1983	1.10	0.10	0.10	5.90	9.00	12.60	5.50	16.70	18.60	16.10	17.50	22.90		
1984	2.30	1.40	0.70	1.60	12.20	20.00	9.00	11.10	12.70	13.50	18.40	4.90		
1985	2.70	0.50	0.40	0.70	17.30	15.50	10.50	19.60	7.10	22.50	18.90	11.80		
1986	0.50	0.60	0.60	4.40	10.30	20.10	7.40	14.70	10.50	10.70	8.60	3.60		
1987	0.80	0.80	0.40	10.90	22.90	8.70	16.20	21.90	19.60	26.50	16.80	13.90		
1988	0.00	2.00	0.10	0.70	8.30	16.30	19.60	11.20	12.40	15.40	15.60	7.30		
1989	0.30	1.40	0.30	0.60	8.10	6.50	14.20	14.00	8.70	28.70	18.50	4.60		
1990	1.70	0.10	1.30	2.80	13.60	11.50	14.30	18.20	20.70	18.10	12.20	9.70		

1991	0.20	0.30	0.70	4.40	12.90	7.20	8.40	10.40	24.10	11.90	25.20	2.80
1992	0.20	0.50	0.20	10.20	15.70	11.80	20.10	18.40	11.30	18.00	11.30	12.20
1993	2.40	0.80	1.20	11.00	5.60	14.70	10.60	17.00	16.50	11.60	18.50	14.30
1994	1.50	0.30	1.10	1.50	12.00	20.30	11.20	13.50	16.50	8.30	15.00	5.10
1995	1.20	1.10	0.40	4.40	18.70	20.20	14.60	8.80	12.70	12.50	21.50	20.40
1996	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1997	1.40	0.20	0.10	2.20	10.50	7.60	7.60	12.00	18.10	7.80	14.60	0.60
1998	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	11.20	13.60	8.20	16.70	9.80	15.80
1999	2.90	1.20	3.30	3.00	15.20	10.50	19.70	18.40	7.60	11.10	14.90	24.60
2000	3.30	0.00	0.00	0.10	2.30	22.60	5.70	12.70	9.00	21.00	8.00	24.40
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-29.98	21.26	6.00	5.30
1948	1.72	0.16	0.29	0.25	8.90	5.11	9.73	10.50	10.07	7.66	20.45	2.90
1949	1.06	0.33	0.13	2.13	10.81	11.74	6.32	11.40	19.29	16.38	19.53	9.74
1950	0.73	1.75	0.23	2.89	14.86	16.57	11.69	9.53	12.76	10.05	21.30	13.23
1951	1.49	4.49	0.40	5.04	7.97	5.32	11.01	7.80	10.24	9.41	15.64	6.46
1952	2.96	1.53	0.17	3.06	7.78	6.03	3.71	8.06	5.79	14.34	8.39	11.86
1953	7.32	0.15	0.44	1.74	10.65	3.84	6.05	4.96	7.17	11.25	16.40	5.99
1954	1.16	0.84	0.61	4.61	16.29	12.29	14.71	15.02	10.68	10.43	15.07	6.44
1955	8.76	0.49	2.35	0.98	11.52	9.50	9.87	15.16	11.59	9.03	16.63	7.55
1956	5.05	0.98	2.41	4.25	11.71	8.40	11.67	4.46	9.06	14.35	7.83	2.91
1957	1.07	0.19	0.13	0.02	15.53	5.93	7.71	9.22	4.81	13.75	8.26	6.60
1958	5.85	4.94	3.90	2.75	11.62	11.31	6.24	10.80	11.63	12.93	4.96	3.62
1959	0.53	0.00	0.39	2.37	7.14	9.83	6.24	7.28	10.32	15.61	7.82	15.53
1960	2.28	0.36	5.05	9.78	8.86	14.73	7.94	-1.00	-1.00	-1.00	10.77	20.55
1961	0.98	0.46	0.98	1.11	7.86	11.26	5.20	9.23	20.27	14.79	13.40	5.23
1962	0.83	0.92	0.82	3.07	10.06	8.99	11.62	12.20	15.47	9.71	10.68	8.10
1963	3.97	1.14	2.29	9.02	10.84	15.41	12.42	21.08	18.13	-1.00	-1.00	7.44
1964	1.02	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	4.33	0.19	0.00	-1.00	4.92	4.13	2.39	10.73	6.82	18.36	17.07	4.91
1966	1.86	0.02	0.85	2.46	10.68	10.67	7.91	12.93	-1.00	5.30	-1.00	12.15
1967	1.45	0.41	2.11	4.40	8.42	10.20	7.30	12.44	10.63	15.14	10.60	1.93
1968	0.21	5.08	2.58	0.52	15.31	18.44	3.15	11.33	15.18	15.72	10.54	1.53
1969	2.49	1.40	0.14	6.85	9.02	9.66	5.21	12.07	6.81	16.59	15.09	6.92
1970	6.12	2.07	4.25	4.52	12.81	8.63	6.40	12.04	13.01	10.60	15.66	16.93
1971	4.27	2.17	2.68	0.19	17.69	12.73	6.01	12.70	7.70	10.40	12.20	1.60
1972	6.30	2.00	1.10	10.10	8.30	12.00	4.00	6.80	11.60	10.50	7.80	2.00
1973	0.90	0.10	0.00	2.70	9.00	11.20	4.90	5.20	10.60	18.90	19.50	8.10
1974	0.30	1.00	0.70	1.20	4.80	6.50	9.70	7.20	7.20	18.00	15.50	1.70
1975	0.30	1.20	1.00	0.70	12.40	12.60	7.90	12.50	12.30	26.80	18.60	14.70
1976	1.30	0.90	0.00	4.70	8.40	4.70	3.50	4.00	12.40	14.10	4.90	2.40

	0.70	0.40	0.10	0.90	9.90	4.30	6.50	10.70	8.30	16.10	12.00	3.60
1977	3.30	0.50	3.10	11.90	14.00	14.00	9.70	10.70	7.80	14.70	6.80	1.00
1978	0.50	0.00	0.10	5.20	8.00	12.00	13.20	8.10	10.20	8.50	6.10	4.00
1979	3.40	1.90	0.10	1.70	14.80	9.60	15.30	8.90	7.80	12.20	16.90	7.00
1980	6.70	1.20	1.50	12.10	14.70	10.30	10.30	12.80	5.70	8.30	14.70	9.70
1981	5.80	0.50	0.80	2.70	10.50	7.50	5.20	10.40	8.60	15.10	5.50	0.60
1982	1.10	0.40	0.70	1.10	8.60	5.40	6.50	10.20	10.90	9.70	9.80	6.00
1983	3.60	3.80	0.80	1.00	10.80	1.20	4.80	16.40	15.00	12.50	15.70	1.70
1984	2.90	0.90	0.70	1.50	6.40	12.80	7.50	6.40	8.70	4.20	7.10	8.00
1985	2.30	0.40	0.40	8.30	10.60	7.10	4.60	9.50	7.50	14.40	15.20	2.40
1986	1.30	0.80	0.10	3.60	13.00	6.10	8.90	9.20	21.20	9.10	2.50	3.90
1987	0.20	0.80	0.20	2.10	10.20	11.40	10.70	9.20	11.00	8.40	11.60	6.30
1988	1.30	1.40	0.50	1.10	6.80	8.10	8.60	10.10	9.40	9.30	12.50	6.50
1989	0.60	0.10	1.30	2.30	19.00	6.90	8.70	10.00	15.90	16.30	13.20	3.30
1990	1.30	0.30	8.20	0.20	15.00	5.50	5.10	5.20	13.10	8.50	11.30	4.60
1991	0.00	0.40	0.10	6.40	10.80	9.80	7.00	9.10	16.90	7.20	9.30	4.80
1992	1.50	0.70	3.10	7.20	9.10	11.20	4.90	5.10	15.70	14.10	16.80	5.60
1993	2.20	0.30	2.80	1.50	7.70	7.10	3.50	6.20	7.20	15.90	16.10	0.10
1994	4.00	0.10	0.40	4.30	10.70	9.20	8.70	12.60	9.40	11.80	9.80	9.80
1995	12.80	3.40	4.60	3.00	12.40	12.30	8.20	9.10	14.00	10.20	13.40	2.60
1996	0.90	0.60	0.00	1.50	4.30	3.50	8.10	3.80	9.90	4.00	11.40	0.80
1997	0.50	0.50	1.50	6.70	8.70	7.60	7.10	4.00	9.40	11.60	10.60	19.30
1998	3.20	2.00	3.80	4.00	5.00	13.60	6.10	17.70	14.00	6.70	16.40	14.60
1999	4.60	0.90	0.40	2.00	12.70	12.50	6.90	15.20	6.90	12.90	7.50	10.70
2000	0.02	0.55	0.20	3.93	13.74	5.92	4.00	5.98	5.46	14.97	11.73	0.20
2001	0.01	0.34	0.01	2.64	6.21	8.50	9.15	10.53	13.78	12.44	7.24	3.71
2002	1.67	0.79	0.22	0.90	11.74	11.48	4.87	10.46	9.14	7.25	14.23	2.03
2003	0.34	0.27	0.00	0.50	12.87	8.87	5.02	9.90	9.65	9.07	6.00	4.44
2004	0.67	3.53	0.24	4.96	8.56	7.11	12.17	9.92	8.21	16.36	10.60	4.67
2005	1.07	1.49	0.84	4.05	9.92	7.03	7.86	5.66	9.21	14.29	16.58	5.11
2006	0.01	0.08	0.01	2.40	8.07	12.24	11.96	8.76	11.44	6.38	23.79	7.71
2007	1.50	0.02	0.20	6.91	13.56	9.31	9.24	5.18	9.25	20.15	7.19	0.38
2008	0.50	0.24	0.05	7.52	7.01	5.57	7.72	8.49	11.04	12.41	6.65	2.43
2009	0.15	0.05	0.80	1.51	7.66	11.01	11.18	10.01	18.93	15.64	9.30	1.56
2010	0.15	1.58	0.52	0.65	7.28	9.36	11.72	13.90	7.85	13.65	10.47	4.39
2011	3.58	0.89	0.26	0.00	10.99	8.70	6.53	4.90	6.28	11.55	11.33	4.31
2012	1.01	0.02	0.00	0.22	9.06	17.75	3.91	9.62	7.85	19.37	10.59	3.20
2013	0.01	0.91	0.82	4.26	7.68	10.51	8.60	10.30	7.95	12.76	17.49	5.65
2014	1.70	0.07	0.24	7.55	12.14	9.70	8.80	8.41	13.51	14.40	9.21	1.91
2015	0.08	0.07	0.00	0.00	10.54	11.04	17.28	7.40	13.53	17.09	7.09	9.90
2016	0.30	1.73	0.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2017	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2018	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2019	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2020	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2021	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2022	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2023	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2024	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2025	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2026	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2027	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2028	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2029	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2030	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2031	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2032	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2033	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2034	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2035	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2036	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2037	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2038	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2039	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2040	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2041	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2042	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2043	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2044	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2045	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2046	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2047	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2048	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2049	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2050	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2051	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2052	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2053	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2054	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2055	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2056	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2057	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2058	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2059	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2060	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2061	-0.74	0.22	0.06	2.32	9.52	9.56	5.54	8.68	10.95	9.10	10.37	3.53

1963	2.67	1.10	0.02	7.79	8.46	10.07	11.94	8.18	8.95	6.59	12.58	3.20
1964	0.28	0.00	0.03	4.43	11.89	11.62	12.70	7.39	10.71	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1971	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1972	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1973	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1974	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1975	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1976	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1977	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1978	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	0.40
1979	0.00	0.10	0.00	6.90	12.90	9.80	7.30	8.40	5.00	17.70	10.80	3.50
1980	2.40	0.90	0.00	0.50	9.50	11.40	10.50	10.50	9.40	8.60	11.90	4.80
1981	0.60	0.00	2.40	11.50	8.70	15.00	10.70	6.10	10.50	5.40	12.60	5.60
1982	3.00	0.50	0.00	2.90	13.20	4.90	8.20	8.30	9.60	11.00	6.50	0.00
1983	0.10	0.10	0.70	2.50	9.20	8.50	6.90	6.40	14.30	11.00	12.30	6.50
1984	1.40	2.30	0.00	1.00	9.60	8.80	9.40	15.10	13.60	18.50	7.40	0.30
1985	0.30	0.30	1.00	1.70	11.30	15.30	12.20	6.70	10.50	5.90	6.50	5.70
1986	0.10	0.20	2.70	6.80	3.60	10.60	6.70	11.50	9.60	22.50	7.60	1.10
1987	0.00	0.40	0.00	6.40	7.00	12.90	9.10	13.40	16.10	10.20	9.20	3.70
1988	0.00	0.50	0.10	0.80	10.60	12.80	7.90	12.80	10.20	22.20	12.60	6.30
1989	0.40	0.50	0.20	0.00	4.80	6.90	8.70	13.40	5.40	9.40	13.70	5.60
1990	1.20	0.10	0.50	2.40	14.60	4.00	15.40	14.60	13.60	20.70	10.70	7.50
1991	1.50	0.30	2.10	4.00	19.50	9.10	11.90	14.50	17.00	15.80	9.50	2.80
1992	0.00	0.10	0.10	3.10	5.20	20.00	10.30	7.50	9.00	14.80	8.40	1.80
1993	3.90	0.20	0.70	3.50	6.80	22.00	11.90	9.50	20.60	13.40	14.40	4.90
1994	0.80	0.10	2.00	2.00	12.60	9.10	4.40	9.30	8.80	19.40	16.40	0.80
1995	0.40	0.00	0.90	5.40	10.90	12.50	12.20	7.40	6.80	10.00	15.10	2.50
1996	7.20	0.60	0.60	1.40	10.40	5.40	8.90	7.40	8.80	9.80	8.10	3.90
1997	0.30	0.00	0.00	0.60	6.40	5.00	8.20	7.30	7.30	7.70	7.70	0.40
1998	0.00	0.10	0.00	1.70	11.00	11.00	10.30	15.70	10.70	10.40	13.10	12.60
1999	1.10	2.10	0.50	2.50	7.00	14.20	3.70	8.70	18.70	9.80	10.40	9.40
2000	3.10	0.00	0.10	4.40	8.70	9.80	5.80	9.60	12.20	12.70	6.30	6.20
2011	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2012	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2013	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2014	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2015	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2016	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2017	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2018	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2019	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2020	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2021	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2022	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2023	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2024	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2025	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2026	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2027	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2028	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2029	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	4.68	1.19	1.26	4.32	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9.80	13.87
												6.13

1949	2.20	2.21	1.26	5.61	13.67	22.54	17.21	15.43	10.94	15.38	16.20	11.44
1950	3.44	6.85	1.73	8.87	17.50	11.84	26.85	7.97	9.84	9.48	21.35	22.51
1951	4.52	15.03	2.44	10.71	13.84	11.58	8.65	16.90	11.21	15.82	10.85	7.18
1952	5.29	1.54	0.17	5.72	15.68	9.77	21.92	18.11	11.56	20.33	7.26	22.97
1953	15.00	4.53	3.95	3.45	13.95	9.71	15.50	11.18	9.11	12.38	14.66	13.71
1954	3.24	3.88	2.30	8.50	16.57	16.36	20.92	14.16	9.88	11.88	23.21	19.40
1955	15.14	2.36	2.56	3.45	11.49	9.22	11.16	19.72	10.94	7.59	32.77	14.18
1956	15.17	3.98	8.76	4.56	20.95	10.65	18.75	11.19	10.09	8.76	22.28	10.16
1957	3.63	2.51	0.45	0.47	10.62	7.70	4.44	11.07	8.17	11.70	23.50	9.42
1958	6.34	4.22	5.92	1.75	11.30	4.51	20.26	10.42	14.78	9.93	14.03	11.32
1959	1.67	1.03	0.51	7.57	11.18	14.88	13.91	9.80	18.49	17.13	23.88	-1.00
1960	-1.00	-1.00	-1.00	-1.00	-1.00	11.90	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	2.82	0.94	1.92	7.58	8.22	28.54	9.41	11.45	7.68	11.16	12.05	8.28
1962	4.89	1.18	2.56	3.18	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9.53
1963	8.86	2.72	1.69	8.58	13.60	19.00	21.19	20.46	13.35	9.46	13.55	4.27
1964	1.93	0.81	1.56	7.99	14.18	20.48	9.87	15.96	9.60	12.97	14.52	3.39
1965	6.73	-1.00	-1.00	-1.00	18.38	15.20	9.12	8.98	12.20	21.43	23.58	-1.00
1966	-1.00	-1.00	0.98	-1.00	-1.00	6.96	12.68	11.70	-1.00	-1.00	28.02	15.71
1967	5.25	4.37	3.11	10.54	18.00	18.21	16.78	10.18	12.42	9.26	25.41	13.12
1968	0.93	4.34	8.80	2.86	16.64	9.66	13.08	11.25	10.22	16.91	16.40	4.88
1969	4.17	1.94	2.98	2.87	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	-1.00	4.30	14.50	20.30	7.50	10.30	13.00	9.10	6.40	27.00	33.00
1971	3.90	2.90	7.00	1.30	12.20	18.90	14.60	11.70	9.00	18.90	13.30	5.00
1972	17.70	3.50	1.50	14.30	15.20	13.50	7.30	9.90	11.70	13.90	9.70	9.40
1973	5.10	3.20	0.40	1.00	15.90	15.50	17.70	13.30	12.10	12.40	26.20	11.40
1974	3.40	2.20	2.10	4.00	13.00	9.70	15.20	9.70	8.80	13.10	21.10	4.30
1975	3.60	0.80	2.80	2.70	17.60	11.80	17.80	12.10	10.00	18.90	16.60	21.60
1976	2.20	3.20	3.50	10.10	6.70	9.40	5.60	10.30	17.70	16.20	12.50	3.00
1977	5.10	1.40	1.20	2.80	7.00	10.70	12.40	16.60	13.60	13.50	11.30	10.60
1978	2.90	3.70	3.30	15.50	14.10	13.10	11.40	12.90	11.00	9.90	12.80	6.10
1979	1.00	3.10	2.40	11.80	11.50	10.60	9.80	5.00	5.30	12.00	15.80	19.30
1980	1.50	4.90	1.20	4.30	18.40	17.50	5.30	7.60	10.10	14.00	13.60	11.80
1981	6.80	4.10	5.10	37.80	11.30	12.60	18.50	11.90	6.50	9.80	17.20	19.20
1982	5.10	2.50	1.00	10.00	6.90	11.40	16.50	14.20	8.00	12.30	5.70	5.90
1983	2.40	0.10	0.70	9.50	15.10	8.60	8.10	12.90	14.40	12.40	11.80	33.20
1984	6.20	3.10	1.10	2.80	10.00	19.10	15.30	21.70	10.20	13.30	17.80	11.80
1985	4.20	2.50	1.90	2.50	14.50	17.00	9.30	8.50	16.40	10.20	12.70	19.40
1986	4.90	1.60	2.10	16.40	15.40	14.50	5.40	11.30	12.20	11.80	13.40	3.60
1987	3.20	3.00	1.10	24.60	17.30	12.60	14.70	15.70	13.60	22.40	20.60	8.20
1988	1.70	6.50	2.50	2.40	14.30	6.70	26.60	16.10	10.10	24.80	11.70	10.20
1989	4.60	10.20	1.40	2.10	16.40	13.80	20.70	18.40	10.60	16.70	18.30	11.40
1990	8.10	2.50	5.70	3.60	19.30	8.80	9.70	15.50	12.20	20.90	11.70	9.20
1991	3.70	2.80	3.30	6.70	23.80	10.10	9.70	8.40	18.30	8.10	30.30	9.60
1992	2.80	1.60	1.70	10.60	28.10	14.40	14.20	20.40	13.70	10.20	12.40	9.40
1993	6.60	1.10	10.80	17.00	10.40	21.00	10.60	8.20	18.00	20.40	15.20	8.70
1994	2.30	2.60	6.20	2.60	19.40	23.60	10.10	17.80	9.90	12.70	21.80	5.20
1995	6.50	0.70	1.10	5.50	11.80	21.40	19.30	6.90	9.40	10.60	20.70	21.90
1996	22.00	6.50	4.20	9.90	22.90	12.30	10.90	13.70	8.40	10.60	29.00	16.30
1997	2.20	5.50	1.60	1.30	19.30	10.40	7.90	6.60	7.00	11.20	4.00	1.60
1998	2.20	0.50	1.50	14.40	11.00	13.10	15.40	13.80	16.30	11.40	9.70	18.90
1999	3.70	4.60	6.20	10.40	15.50	12.20	19.40	10.90	10.00	13.20	17.30	41.40
2000	9.70	3.00	3.70	6.00	14.00	20.40	10.10	14.80	5.60	17.90	12.50	31.00
1911	0.11	0.71	0.38	4.01	14.53	6.98	7.26	7.68	5.20	12.75	10.09	0.97
1912	0.06	1.11	0.10	0.77	7.94	11.64	14.27	16.64	12.75	13.60	6.56	3.63
1913	2.65	0.68	0.08	1.07	15.13	8.02	8.06	16.45	9.48	8.71	14.13	1.82
1914	0.64	0.23	0.03	1.38	10.28	17.78	3.91	7.97	11.50	9.79	7.70	6.15
1915	1.74	2.75	0.02	7.09	5.10	9.01	8.03	4.51	9.91	15.93	9.96	7.00
1916	2.16	1.53	0.90	6.68	12.25	8.44	9.59	12.22	11.37	13.46	9.84	4.75
1917	0.09	0.30	0.26	3.96	8.14	7.82	17.75	12.62	9.93	11.21	22.05	8.31
1918	3.07	0.07	0.54	3.16	11.45	10.12	6.51	8.59	7.60	17.25	5.86	1.25
1919	0.55	0.21	0.03	7.02	5.82	6.02	6.70	7.37	9.39	11.72	3.50	3.69
1920	0.05	0.10	0.21	1.48	7.59	7.48	14.71	8.97	12.68	24.93	13.63	3.05
1921	0.09	5.39	0.09	1.16	5.89	12.81	11.33	15.68	10.48	11.83	6.96	4.42
1922	8.11	1.42	0.09	0.24	15.04	9.09	6.12	7.20	8.74	11.82	6.58	6.65
1923	1.01	0.14	0.03	0.31	12.59	14.56	8.57	9.42	10.84	25.56	10.50	0.81
1924	0.07	1.85	1.32	4.10	10.50	6.58	6.80	15.40	11.13	8.82	20.17	4.85
1925	3.35	0.18	0.27	2.81	6.82	6.61	7.77	12.99	11.38	9.63	12.34	3.85
1926	0.04	0.18	0.02	0.00	5.74	14.00	18.00	13.30	11.94	9.08	7.32	9.08
1927	0.36	0.78	0.06	7.84	8.36	12.34	11.98	8.27	7.44	7.53	7.42	3.76
1928	0.34	0.22	2.75	3.06	10.21	8.32	5.95	8.37	10.15	11.68	15.52	4.79
1929	0.31	0.01	0.94	0.75	9.95	7.68	9.01	12.88	7.75	14.00	9.00	3.03
1930	0.29	0.90	0.12	7.45	14.07	6.26	10.13	9.39	7.24	9.21	5.84	0.84
1931	0.11	1.88	2.46	3.80	9.18	12.76	12.34	6.74	10.80	6.47	19.05	5.18
1932	0.48	0.10	0.13	9.97	8.35	14.74	7.22	10.38	5.76	14.18	16.72	3.18
1933	1.21	0.01	0.24	0.11	11.60	11.85	5.87	9.83	10.49	7.31	16.47	9.87
1934	1.94	0.62	0.11	4.73	10.83	8.15	5.18	9.25	12.60	19.91	14.33	5.67

1935	0.63	0.75	0.03	3.10	11.64	9.25	20.67	13.21	11.59	7.74	31.25	4.65
1936	0.18	0.09	0.37	2.93	14.61	9.84	9.57	7.37	10.04	22.45	9.20	2.10
1937	3.80	0.80	0.02	1.56	6.99	7.52	7.21	9.92	13.42	11.05	16.59	24.67
1938	0.88	0.29	0.96	1.69	17.56	13.58	13.02	12.07	9.55	14.70	15.66	12.73
1939	0.12	0.04	0.09	0.08	5.56	9.34	6.81	7.42	9.03	8.23	18.06	9.35
1940	1.40	0.43	0.24	0.50	10.55	8.12	6.66	13.47	10.37	14.99	9.09	0.88
1941	1.30	1.46	0.24	0.92	5.95	9.75	10.01	6.21	9.84	9.80	6.42	7.65
1942	0.73	0.48	2.66	2.57	10.99	11.06	8.10	8.66	8.39	19.23	7.65	14.26
1943	1.73	0.80	0.41	3.08	13.70	12.83	4.58	5.35	7.97	7.81	17.98	12.84
1944	0.59	0.12	0.05	2.50	10.27	5.62	6.45	14.43	8.48	15.12	8.16	4.48
1945	0.25	0.02	0.06	4.70	9.54	4.22	13.61	11.68	9.42	8.76	12.33	6.66
1946	0.55	0.07	0.37	0.64	7.27	6.55	11.99	5.57	7.29	7.99	9.83	7.25
1947	0.10	0.69	0.19	1.43	6.63	7.24	9.77	10.56	11.52	10.04	9.88	3.29
1948	1.90	0.00	0.09	0.44	14.17	5.79	9.89	6.86	8.82	12.13	15.00	1.87
1949	0.01	0.01	0.48	1.74	7.52	12.42	9.89	9.46	7.19	11.77	15.53	3.89
1950	0.29	0.38	0.80	1.97	9.26	13.22	13.94	8.05	7.59	6.40	17.09	6.84
1951	0.58	2.00	0.29	3.93	13.50	4.71	9.37	6.80	4.15	8.37	9.72	7.35
1952	1.24	0.47	0.06	2.52	11.50	13.06	8.37	4.16	7.58	15.14	4.95	9.50
1953	2.12	0.34	0.14	3.75	11.52	5.10	8.07	10.34	4.94	11.20	10.10	4.11
1954	1.37	1.42	0.76	3.84	8.24	7.32	20.74	14.10	7.56	7.59	15.62	1.88
1955	5.23	0.65	0.23	0.31	9.57	13.95	6.49	9.06	6.38	5.87	14.30	5.77
1956	3.61	0.93	0.59	1.01	13.87	5.75	11.28	6.95	5.46	17.40	10.04	4.06
1957	0.00	0.03	0.00	0.21	12.24	9.29	9.16	9.39	15.49	15.28	11.02	1.43
1958	1.59	0.21	0.56	2.17	12.81	7.86	6.96	8.69	11.03	6.67	2.36	
1959	0.29	0.00	0.00	1.88	12.62	5.55	6.70	8.90	9.03	8.13	9.76	10.79
1960	2.59	0.68	1.48	3.56	8.57	13.74	12.51	9.19	8.09	13.37	9.49	11.29
1961	0.27	0.30	0.21	5.92	4.43	15.05	9.94	8.84	10.41	13.05	8.75	7.11
1962	0.80	0.01	0.26	3.97	6.81	9.36	6.15	9.33	11.54	12.21	9.02	3.37
1963	5.44	1.48	0.00	1.96	10.02	10.99	8.64	9.22	8.93	8.30	16.70	3.30
1964	0.07	0.00	0.10	2.63	14.31	10.37	12.65	9.41	11.00	8.57	13.64	0.80
1965	1.31	0.07	0.03	0.01	12.57	7.54	6.57	8.55	7.37	10.60	16.16	6.01
1966	0.63	0.03	0.02	2.58	5.45	15.08	5.63	6.21	11.64	7.06	17.52	7.95
1967	0.32	0.01	0.28	3.50	7.44	11.89	11.26	8.54	14.31	14.14	8.66	2.19
1968	0.00	2.85	0.00	0.70	9.17	12.98	6.94	11.78	12.30	11.59	15.19	1.29
1969	0.82	0.24	0.26	2.84	9.77	5.10	7.83	9.89	10.97	9.52	14.43	6.33
1970	6.88	0.26	3.08	5.82	10.38	5.30	10.27	11.46	10.59	12.90	14.54	11.42
1971	5.75	1.59	1.97	1.09	11.16	6.02	9.46	13.72	9.00	13.60	10.70	0.70
1972	3.80	0.50	1.40	7.50	7.30	12.30	9.50	6.90	14.00	13.00	11.70	3.70
1973	0.30	0.20	0.00	1.00	7.40	14.60	14.00	7.00	12.00	8.80	17.30	1.90
1974	0.50	0.10	1.30	0.40	10.50	14.20	14.30	5.30	8.20	17.90	8.40	4.50
1975	0.10	0.20	0.60	0.40	11.20	9.60	14.20	18.50	7.60	13.50	9.80	9.00
1976	0.30	0.00	0.10	1.10	5.00	8.50	3.20	4.80	10.90	8.10	7.40	1.00
1977	0.40	0.20	0.00	1.50	9.00	7.70	10.50	15.90	7.50	15.30	8.40	5.00
1978	0.20	0.30	1.10	5.50	12.20	10.10	14.80	6.70	8.40	12.20	7.80	6.40
1979	0.10	0.20	0.10	10.20	9.50	13.60	8.20	6.40	6.00	11.20	6.00	2.40
1980	4.20	1.40	0.10	0.60	8.60	11.90	10.00	12.30	10.20	12.30	5.20	5.10
1981	1.60	0.00	3.00	12.50	8.30	12.40	14.00	7.90	6.10	8.30	18.20	6.60
1982	5.80	0.30	0.10	2.50	13.50	4.70	6.90	7.30	8.90	13.30	7.60	0.80
1983	0.30	0.00	0.00	2.00	10.60	10.00	5.80	7.00	15.10	12.20	11.30	8.40
1984	0.80	2.50	0.00	1.50	9.90	12.60	8.60	16.20	16.30	16.00	13.10	0.20
1985	0.50	0.30	0.70	0.30	11.50	10.20	9.20	7.60	13.80	5.90	4.40	6.20
1986	0.00	0.50	2.50	4.30	2.50	14.00	4.80	9.30	6.90	20.00	5.10	0.70
1987	0.00	0.50	0.10	7.30	8.10	11.30	11.30	10.30	10.80	10.70	7.80	2.90
1988	0.00	0.20	0.20	0.90	6.80	8.80	5.40	9.40	9.40	13.40	10.90	2.70
1989	0.10	0.30	0.00	0.00	4.20	8.20	9.50	11.30	9.20	15.80	16.90	3.60
1990	1.40	0.00	0.30	0.90	12.40	3.30	8.00	8.00	11.90	15.00	10.60	8.20
1991	1.10	0.00	0.80	2.70	14.20	11.20	11.00	10.80	15.00	14.40	7.30	1.80
1992	0.40	0.20	0.00	3.90	7.40	14.70	14.90	7.40	11.20	10.80	5.70	2.00
1993	4.30	0.20	2.60	5.00	6.40	14.40	9.10	8.80	20.60	15.30	13.40	3.30
1994	0.90	0.60	2.10	0.60	14.30	9.40	7.50	10.50	13.00	14.50	19.00	3.20
1995	0.70	0.10	1.20	4.80	15.60	17.00	20.40	21.20	13.10	21.10	28.70	8.30
1996	9.20	0.70	1.60	2.40	10.10	9.40	8.50	12.20	10.10	12.60	12.20	1.50
1997	0.50	0.20	0.10	0.50	12.50	6.00	9.50	7.20	5.30	15.10	10.00	0.60
1998	0.00	0.10	0.10	8.60	7.50	8.80	10.30	12.70	11.40	8.30	11.40	7.40
1999	1.30	4.00	1.40	3.80	10.80	10.90	3.80	11.20	14.70	8.60	12.00	14.70
2000	1.40	0.30	0.10	3.60	13.00	12.40	6.30	10.80	12.00	12.50	8.50	8.50
1911	1.20	2.19	1.80	6.38	19.14	14.72	6.66	7.91	4.33	16.92	15.78	2.25
1912	0.91	2.38	0.55	4.18	13.83	14.80	11.84	11.98	7.84	14.52	19.18	9.82
1913	4.63	2.92	1.01	5.38	17.06	10.70	9.73	12.32	9.95	15.17	15.88	8.06
1914	1.63	1.08	0.96	3.26	10.91	12.64	4.28	15.15	10.95	14.14	12.57	4.62
1915	1.80	13.17	0.90	15.90	10.24	12.66	18.23	12.31	16.12	19.55	18.28	7.23
1916	1.05	2.20	3.25	4.72	11.32	10.70	9.68	5.97	8.24	16.37	19.15	4.20
1917	1.11	0.62	0.52	9.84	15.14	12.41	17.80	17.81	12.20	10.05	30.94	11.59
1918	4.03	0.53	0.55	6.66	11.64	8.29	8.15	17.93	7.27	22.73	11.49	1.92
1919	1.42	0.54	0.59	12.04	7.16	12.54	7.86	9.07	8.42	17.46	7.19	6.62
1920	0.71	1.00	0.71	0.14	2.65	7.38	15.26	15.23	6.62	17.57	9.78	3.26

1921	2.01	2.74	0.79	4.69	14.08	13.23	13.17	19.73	13.71	9.09	21.04	9.03
1922	9.48	1.29	1.13	2.35	12.71	12.54	5.26	7.24	11.98	17.81	17.50	8.04
1923	2.26	0.55	0.46	1.57	10.18	11.55	8.70	15.53	12.11	39.76	15.31	6.74
1924	0.76	3.75	0.87	14.14	12.39	12.60	15.50	9.92	12.48	13.85	27.78	5.90
1925	3.01	1.09	0.72	8.17	8.33	8.99	14.37	7.64	14.03	12.23	20.78	5.61
1926	0.92	1.64	0.70	0.59	12.55	18.78	23.47	13.94	9.13	16.92	24.00	9.09
1927	5.69	2.53	2.62	8.04	16.58	11.27	13.61	14.75	9.73	11.39	17.78	15.96
1928	2.01	1.27	2.89	1.30	11.54	15.16	10.77	19.68	9.90	14.82	20.48	20.72
1929	0.75	0.54	1.94	1.43	11.92	10.75	7.59	19.22	8.42	15.67	15.08	5.51
1930	2.82	1.45	0.61	6.89	10.62	9.01	10.54	9.91	12.91	11.19	20.16	6.92
1931	2.65	1.68	3.94	7.10	16.37	8.86	17.18	13.67	4.77	17.77	31.91	2.37
1932	3.00	0.67	1.68	3.60	12.55	16.58	12.81	10.46	7.94	18.19	46.64	15.97
1933	2.61	0.20	0.98	0.31	8.64	17.67	12.88	4.96	11.87	16.54	41.52	21.67
1934	2.62	0.78	1.29	6.15	15.00	11.74	12.70	13.82	17.03	16.65	27.28	16.26
1935	4.78	2.93	0.75	2.44	11.34	15.33	21.66	15.90	13.44	11.00	44.21	19.48
1936	1.38	0.25	1.44	2.22	12.82	7.93	12.75	16.23	14.83	12.19	22.78	6.87
1937	5.19	0.73	0.54	1.73	18.80	13.92	11.89	16.24	10.43	21.05	16.83	24.08
1938	1.97	1.14	1.49	6.37	15.16	18.39	16.51	18.93	11.48	13.29	18.46	29.93
1939	0.70	0.39	0.81	1.45	4.70	18.89	6.04	13.03	13.67	15.03	35.32	18.37
1940	5.46	2.75	2.07	1.16	7.35	8.91	8.88	22.11	7.83	17.40	17.48	2.69
1941	4.20	3.76	2.65	1.17	8.43	9.16	14.60	13.83	14.15	26.81	20.50	4.51
1942	2.30	1.82	6.00	7.33	16.28	10.34	10.12	11.02	19.92	26.61	8.13	20.90
1943	1.90	2.69	3.44	5.88	18.43	11.37	9.29	12.84	16.36	13.10	19.98	15.04
1944	3.00	2.12	0.69	10.09	23.71	7.51	10.20	16.92	7.58	21.94	14.43	19.68
1945	2.86	1.03	0.78	1.54	14.54	7.72	15.26	17.93	11.17	17.20	32.36	23.43
1946	2.70	0.46	1.26	1.42	6.44	7.83	12.80	11.85	15.54	16.34	22.03	23.16
1947	0.81	1.13	0.84	5.66	7.90	8.81	13.74	10.05	9.13	10.69	10.38	11.35
1948	2.96	0.30	0.79	6.11	10.36	6.56	14.04	10.98	8.87	14.97	15.92	5.76
1949	1.30	1.48	0.62	2.44	10.45	21.03	10.62	15.55	9.34	17.79	29.74	16.19
1950	1.28	2.76	1.21	3.59	6.24	14.86	13.94	16.65	8.40	7.94	28.97	23.61
1951	0.85	6.71	1.08	9.41	12.42	8.54	7.99	9.19	9.65	17.69	12.90	11.09
1952	4.29	1.14	0.48	9.01	9.47	11.31	15.13	12.11	9.49	18.73	14.10	20.05
1953	5.46	1.06	2.40	5.99	12.97	2.97	19.36	12.37	7.70	19.56	15.77	9.26
1954	1.97	2.51	0.99	3.54	11.69	11.28	12.69	14.83	16.95	12.87	32.74	13.86
1955	11.56	1.23	1.55	0.71	14.32	14.04	6.96	11.24	7.55	12.91	20.46	13.53
1956	12.25	2.42	5.89	3.32	19.89	6.36	18.73	12.75	13.60	21.77	23.47	6.50
1957	1.28	0.42	0.66	0.25	9.75	10.98	9.05	13.93	17.50	10.01	21.27	7.45
1958	8.22	3.92	5.38	4.82	9.11	7.51	23.27	10.22	11.48	16.65	11.45	9.84
1959	2.32	0.15	0.41	4.19	10.81	9.49	11.48	10.64	17.27	7.85	15.67	21.80
1960	4.05	1.71	7.52	11.53	20.73	9.53	16.04	8.42	9.15	19.09	19.38	25.46
1961	1.03	0.34	0.91	6.65	9.58	16.72	8.15	15.81	8.57	20.40	19.14	5.96
1962	4.22	0.95	1.12	1.61	24.43	6.27	17.92	10.76	14.03	11.44	21.30	20.57
1963	7.15	2.20	0.57	4.70	16.10	7.43	14.32	14.69	8.53	10.18	21.81	4.09
1964	0.83	0.38	0.32	3.16	13.83	16.80	18.12	9.93	13.42	11.20	10.59	2.56
1965	5.61	1.33	0.20	1.70	14.46	7.05	4.88	12.95	11.68	24.00	33.66	7.50
1966	2.25	1.15	1.89	7.03	13.17	6.50	16.44	20.48	11.40	15.68	37.06	14.09
1967	1.44	0.37	0.91	4.94	7.63	19.37	18.35	9.47	7.92	13.86	25.90	9.94
1968	0.58	2.53	3.26	0.87	8.80	11.66	12.98	13.82	10.82	24.69	12.48	2.57
1969	3.22	1.65	1.12	2.10	13.70	9.23	15.94	17.39	14.05	14.51	14.44	18.71
1970	11.42	4.36	2.51	10.66	17.07	10.31	16.57	14.68	8.57	15.72	26.83	16.88
1971	5.31	2.47	3.43	0.68	13.93	12.58	10.87	16.82	12.66	10.70	11.69	0.74
1972	9.99	2.30	0.81	11.96	8.68	10.49	5.13	7.74	12.38	17.07	8.06	3.86
1973	1.81	1.83	0.20	2.30	7.40	8.80	7.20	9.70	9.20	11.60	22.60	7.80
1974	0.50	1.60	1.40	2.50	6.70	9.80	20.60	10.00	17.70	16.70	29.60	5.50
1975	1.00	0.50	3.20	0.90	11.30	13.30	12.70	17.90	13.40	16.90	13.60	25.00
1976	2.30	0.50	0.10	6.80	9.90	12.60	12.40	13.90	11.40	12.70	11.20	4.30
1977	1.70	0.90	0.20	4.20	7.60	12.10	5.80	12.90	10.20	15.20	9.20	2.20
1978	0.30	1.90	2.90	12.20	4.80	14.20	10.60	12.40	12.30	8.70	8.70	1.80
1979	0.60	3.00	0.40	10.30	14.80	14.40	10.40	16.50	9.80	12.10	10.40	10.30
1980	6.80	3.10	0.40	2.40	18.20	7.40	7.70	10.70	8.20	9.40	10.00	10.70
1981	7.90	1.90	3.90	13.80	16.70	9.10	14.20	13.40	6.80	13.40	42.40	19.00
1982	8.00	2.10	1.20	9.60	7.10	13.00	18.60	9.00	9.90	15.90	7.50	1.10
1983	1.40	0.20	0.00	6.00	15.20	9.60	10.40	11.10	11.20	10.40	9.10	16.20
1984	2.40	2.10	0.40	2.00	11.70	12.60	4.00	10.10	6.50	10.80	16.30	5.00
1985	6.80	1.30	0.80	0.70	8.90	10.70	13.00	10.10	11.80	10.20	13.40	13.30
1986	1.20	1.40	0.90	5.90	8.00	9.00	7.60	17.30	9.90	19.60	9.40	5.60
1987	1.20	1.80	0.20	10.00	20.70	10.60	18.30	17.60	20.90	22.60	14.20	10.60
1988	1.20	3.10	0.10	1.40	6.40	7.50	13.60	6.10	12.20	14.00	12.20	7.20
1989	0.50	2.10	1.20	0.70	4.70	6.30	13.30	12.60	4.40	20.00	16.70	5.00
1990	1.90	0.10	1.90	6.10	13.60	9.00	14.50	11.90	22.10	19.30	11.50	13.00
1991	2.30	0.80	4.40	2.60	16.70	9.00	5.30	10.00	17.00	8.60	22.60	1.80
1992	1.20	0.20	0.90	11.50	20.20	6.70	10.00	14.00	15.30	12.50	13.40	9.20
1993	4.80	1.90	3.10	13.80	6.40	9.40	12.70	10.80	16.50	12.80	15.50	10.30
1994	1.20	0.80	1.70	4.60	15.20	19.50	9.20	20.30	9.20	7.80	15.00	4.90
1995	10.40	0.50	1.80	4.80	12.30	9.70	15.90	10.10	6.70	13.80	21.10	15.30
1996	16.30	5.50	2.40	3.70	10.00	11.40	8.00	8.60	4.70	10.10	24.10	7.80

1997	1.80	0.60	0.00	0.40	9.50	4.60	4.60	6.30	18.20	8.40	8.50	0.80
1998	0.60	1.60	1.80	20.50	11.50	8.80	16.50	10.70	3.30	10.40	8.80	14.30
1999	4.00	2.10	5.90	5.40	10.30	9.50	13.60	20.10	7.40	12.50	15.70	27.30
2000	4.70	0.90	0.60	5.20	16.00	22.80	9.00	9.50	5.60	26.80	7.20	28.30
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1949	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1950	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1951	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1952	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1953	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1954	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1955	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1956	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1957	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1958	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1959	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	27.53
1960	2.98	1.69	4.88	8.86	11.07	9.47	6.25	-1.00	-1.00	-1.00	-1.00	25.85
1961	1.18	0.20	1.42	8.52	3.57	7.65	7.63	13.26	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	4.76	13.16	7.44	9.30	14.03	6.61	8.97	8.97	8.97
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	1.53	-1.00	-1.00	11.33	3.32	3.18	11.52	9.81	16.07	22.15	-1.00
1966	2.78	1.20	1.87	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1968	0.14	2.80	1.89	0.56	12.32	5.57	3.40	13.10	5.58	17.12	12.80	1.86
1969	2.07	1.34	1.04	2.64	8.80	6.68	13.95	4.73	13.44	13.00	15.40	11.46
1970	9.81	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1971	4.03	1.39	1.76	0.37	8.05	9.90	11.30	6.90	7.40	7.10	-1.00	1.10
1972	8.30	1.00	1.50	5.90	4.70	14.20	2.40	4.40	8.10	14.80	4.90	4.30
1973	0.60	1.10	0.10	4.00	7.90	11.50	6.80	10.10	9.20	13.00	17.50	5.10
1974	0.50	0.70	0.80	2.60	5.00	7.90	14.80	6.10	8.80	15.40	19.90	2.20
1975	0.50	0.90	0.90	1.00	9.90	7.80	10.40	14.90	12.40	18.30	14.10	18.90
1976	1.70	0.70	0.30	9.30	7.90	9.70	6.00	7.30	8.50	10.30	6.90	3.00
1977	0.80	0.50	0.10	0.70	9.00	7.60	4.50	15.60	12.50	6.30	4.40	2.30
1978	3.10	0.70	2.90	9.20	5.90	5.70	9.90	10.00	8.40	8.40	14.20	1.50
1979	0.40	1.90	0.20	7.90	10.70	9.80	7.60	7.30	10.40	8.90	12.10	6.10
1980	6.40	2.50	0.20	3.60	8.30	8.60	10.80	9.10	5.40	9.60	12.20	8.20
1981	7.90	1.70	3.40	13.80	12.30	13.00	10.60	10.40	3.60	8.00	28.60	9.90
1982	6.80	1.20	1.20	5.40	10.40	9.90	10.60	8.00	9.30	13.30	4.70	0.80

Year	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14
1983	1.20	0.50	0.20	6.00	11.00	10.60	8.30	11.20	7.80	12.80	12.40	9.30		
1984	1.90	2.00	0.50	2.30	10.50	9.80	3.80	13.50	4.60	9.50	16.00	3.30		
1985	5.10	1.00	0.80	0.50	9.50	8.60	11.90	8.60	8.40	12.60	9.10	15.80		
1986	1.70	0.90	0.70	8.20	5.00	8.30	7.40	8.30	9.80	16.70	5.00	5.00		
1987	1.60	2.00	0.20	9.30	13.00	7.30	12.10	10.70	12.90	15.30	16.60	6.00		
1988	0.70	1.40	0.10	1.80	5.60	9.30	8.00	9.10	11.00	20.00	16.50	6.90		
1989	1.80	5.30	1.30	3.20	2.80	4.80	4.90	9.80	6.90	14.70	13.20	2.80		
1990	0.80	0.10	0.40	0.70	13.90	5.30	12.20	9.50	20.10	11.40	9.40	9.70		
1991	2.00	0.80	4.20	1.30	14.60	5.60	9.00	5.40	14.40	7.80	16.50	1.70		
1992	0.60	0.20	0.50	10.30	11.90	7.60	9.10	9.20	18.50	7.50	11.20	7.10		
1993	1.70	1.90	3.30	8.10	5.50	5.80	9.30	7.60	14.00	12.20	13.90	6.50		
1994	1.40	0.60	1.90	4.50	14.10	10.50	6.10	10.20	5.80	6.10	17.90	3.20		
1995	8.30	0.20	0.60	4.20	13.50	8.40	12.80	6.00	11.50	9.60	14.30	15.50		
1996	12.50	4.90	2.90	4.20	8.40	10.20	9.00	6.60	11.00	11.40	16.20	4.80		
1997	1.20	0.40	0.10	2.00	7.90	5.20	4.90	5.90	6.20	7.10	8.20	0.70		
1998	0.60	0.60	1.50	10.70	11.20	10.90	9.70	9.00	3.10	6.50	4.10	12.70		
1999	3.60	2.00	3.00	5.40	8.20	12.20	11.70	24.90	9.80	11.20	16.40	19.90		
2000	2.90	0.50	0.10	2.80	11.80	16.00	8.50	9.60	7.20	18.80	10.80	23.90		
2011	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2012	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2013	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2014	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2015	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2016	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2017	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2018	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2019	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2020	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2021	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2022	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2023	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2024	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2025	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2026	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2027	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2028	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2029	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2030	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2031	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2032	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2033	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2034	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2035	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2036	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2037	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2038	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2039	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2040	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2041	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2042	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2043	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2044	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2045	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2046	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2047	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2048	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2049	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2050	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2051	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2052	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2053	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2054	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2055	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2056	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2057	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2058	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2059	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2060	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2061	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2062	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2063	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2064	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2065	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2066	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2067	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
2068	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	8.27	8.74	11.55	8.82	13.12	8.70	0.32	

1969	0.35	0.15	0.28	0.70	5.50	5.32	6.93	9.95	11.47	17.27	11.79	3.29
1970	5.42	0.89	2.23	4.90	13.54	7.23	9.60	16.87	8.90	14.07	14.11	11.02
1971	7.65	2.92	1.16	3.63	16.60	5.40	10.10	9.00	14.20	14.50	11.70	0.10
1972	4.60	0.40	0.40	11.00	7.20	11.00	6.40	6.90	17.60	14.50	7.30	3.70
1973	0.20	0.10	0.10	0.90	8.70	10.70	10.70	2.60	8.10	13.60	14.40	3.60
1974	0.00	0.00	0.00	1.30	13.70	13.40	9.30	10.20	13.20	18.00	6.20	2.70
1975	0.00	0.50	0.40	0.60	9.80	11.20	11.40	8.80	10.00	19.60	14.00	5.70
1976	0.30	0.10	0.00	1.90	6.20	7.60	4.70	7.20	8.00	13.60	6.80	1.50
1977	0.30	0.40	0.20	0.40	9.90	7.80	8.60	9.40	5.40	14.70	9.60	3.20
1978	1.10	0.20	0.60	5.50	7.20	9.40	9.10	7.70	9.30	15.50	15.60	3.40
1979	0.10	0.00	0.10	9.00	11.00	9.90	9.60	11.10	5.00	21.30	6.70	3.10
1980	2.20	0.60	0.00	0.60	7.10	13.10	8.60	12.10	8.70	9.10	12.00	3.40
1981	0.70	0.00	1.60	11.70	10.70	16.60	9.20	7.00	9.70	6.50	14.00	5.70
1982	2.50	0.10	0.00	1.90	11.60	4.60	8.70	8.00	12.90	13.90	5.10	0.10
1983	0.10	0.00	0.20	1.70	9.70	9.50	7.80	5.90	12.40	11.60	11.20	7.50
1984	1.40	2.20	0.20	1.60	5.20	10.20	10.10	14.00	12.50	17.80	6.90	0.40
1985	0.40	0.20	0.50	1.20	8.80	17.40	10.60	9.20	12.00	8.10	7.70	3.30
1986	0.10	0.00	3.50	6.60	2.00	13.30	6.40	9.40	11.00	23.80	8.60	0.60
1987	0.00	0.20	0.40	6.30	6.70	13.40	9.40	14.60	16.10	10.70	11.60	5.90
1988	0.10	0.10	0.20	0.90	11.60	14.50	7.40	12.90	10.60	20.70	11.80	6.00
1989	0.60	0.50	0.20	0.00	6.00	9.50	8.40	12.00	5.20	10.20	13.50	4.30
1990	1.10	0.10	0.30	3.20	10.70	4.80	16.10	14.20	10.40	15.80	5.80	6.20
1991	0.70	0.00	1.00	4.50	14.70	11.60	9.00	14.20	18.00	16.50	8.80	3.40
1992	0.10	0.10	0.00	3.50	6.40	20.40	6.80	8.60	9.80	14.90	7.60	3.00
1993	2.70	0.10	0.50	3.90	7.40	18.60	10.30	11.10	14.80	13.90	11.30	5.00
1994	0.60	0.00	2.50	2.10	11.80	9.80	5.00	10.30	9.10	15.80	15.20	0.50
1995	0.20	0.30	0.40	6.10	10.40	15.00	11.10	8.70	5.60	10.00	16.30	1.00
1996	5.20	0.80	1.10	1.70	13.30	6.60	10.20	8.20	7.60	11.80	10.00	4.20
1997	1.00	0.10	0.00	1.00	7.00	5.00	10.30	7.60	9.60	11.10	6.70	0.10
1998	0.00	0.00	0.10	1.40	12.90	11.40	11.80	16.50	8.30	9.40	13.60	12.10
1999	1.00	2.60	0.50	4.00	6.90	14.50	5.50	9.10	15.90	11.50	10.30	9.80
2000	3.60	0.20	0.10	4.50	10.20	11.20	6.10	10.10	11.30	12.30	3.90	6.50
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1949	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1950	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1951	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1952	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1953	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1954	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1955	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1956	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1957	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1958	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1959	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	0.40	0.89	5.05	8.26	8.21	11.29	11.49	10.53	15.30	-1.00	3.26	
1968	0.03	1.45	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1969	0.85	0.44	0.37	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	-1.00	-1.00	0.13	9.70	7.90	10.30	13.30	9.10	16.80	-1.00	-1.00	
1971	-1.00	-1.00	-1.00	1.00	12.70	6.20	10.10	-1.00	11.60	17.00	-1.00	0.00	
1972	3.40	0.90	0.70	5.60	8.80	13.80	3.10	7.40	13.00	11.60	7.80	2.60	
1973	0.10	0.10	0.10	1.00	7.20	11.00	7.80	6.20	10.50	7.50	14.20	3.70	
1974	0.20	0.10	1.60	0.30	14.60	9.50	7.40	9.90	9.50	12.70	7.10	3.60	
1975	0.20	0.20	0.70	0.40	10.50	7.80	11.10	9.80	8.40	13.60	11.70	7.20	
1976	0.20	0.00	0.30	2.70	5.20	9.40	3.00	7.40	12.20	7.90	5.50	1.40	
1977	0.30	0.10	0.00	0.40	8.70	7.00	8.70	11.70	5.60	14.50	10.50	4.90	
1978	0.20	0.20	2.20	7.30	9.40	12.00	10.80	7.30	8.80	13.80	11.80	3.90	
1979	0.00	0.10	0.00	6.40	9.90	12.20	7.30	7.70	4.20	14.30	14.10	2.00	
1980	2.40	0.50	0.20	0.60	9.60	10.40	8.00	11.00	9.60	6.30	9.20	6.60	
1981	1.00	0.10	2.70	13.60	8.50	13.20	9.30	7.30	6.40	7.90	15.20	5.70	
1982	4.20	0.10	0.00	2.70	12.60	6.00	7.30	7.80	9.80	12.20	7.20	0.50	
1983	0.30	0.30	0.40	2.80	11.00	10.20	5.70	6.40	15.90	8.80	10.80	5.90	
1984	0.90	2.00	0.10	1.30	7.70	9.50	6.90	12.50	12.80	16.90	11.20	0.40	
1985	0.10	0.20	0.60	2.30	14.60	11.70	7.40	6.70	16.00	5.40	5.50	5.10	
1986	0.10	0.40	3.60	5.20	3.80	12.70	7.20	10.10	8.80	22.80	8.40	1.50	
1987	0.10	0.30	0.00	7.30	6.70	11.70	10.00	13.00	13.70	9.80	8.70	3.90	
1988	0.00	0.10	0.20	1.70	15.40	14.60	9.80	17.80	14.10	23.50	14.40	6.40	
1989	0.80	1.10	0.30	0.00	12.80	18.40	18.40	18.10	8.90	18.10	22.50	8.90	
1990	2.10	0.00	1.20	1.40	16.80	6.40	12.40	12.20	12.20	18.50	10.80	6.50	
1991	1.50	0.20	2.00	3.60	19.00	15.40	12.80	18.20	19.00	17.10	14.60	1.70	
1992	0.10	0.10	0.10	5.80	8.60	21.40	15.30	11.40	10.00	16.40	10.60	2.50	
1993	4.50	0.10	1.50	5.00	12.10	23.60	14.00	11.60	23.60	17.80	14.60	4.40	
1994	1.30	0.50	2.00	0.90	11.60	9.70	7.50	10.50	9.90	14.10	16.70	2.30	
1995	0.40	0.10	1.20	7.10	10.90	12.70	10.10	8.10	7.80	10.00	17.10	5.20	
1996	8.30	0.90	1.10	1.90	12.20	9.00	10.50	9.20	11.50	9.40	10.70	2.00	
1997	0.60	0.00	0.00	1.20	13.00	7.40	9.30	11.10	5.80	10.20	8.70	0.20	
1998	0.00	0.00	0.00	2.90	7.90	10.20	11.10	12.60	11.30	9.40	13.20	8.20	
1999	1.90	3.90	1.50	2.80	13.00	12.50	4.00	10.40	17.40	8.50	11.70	15.00	
2000	2.10	0.10	0.40	4.20	11.80	11.40	6.40	9.40	12.90	13.90	8.40	7.60	
2011	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	1.38	1.15	0.28	3.03	11.79	11.80	11.80	7.68	11.36	16.80	20.36	5.61	
1913	3.45	1.80	1.11	2.52	17.73	11.20	8.36	13.39	11.30	11.86	10.43	4.12	
1914	1.57	1.16	0.71	3.16	13.58	9.61	2.42	4.97	15.03	16.93	15.00	5.61	
1915	2.46	8.88	1.15	9.27	8.51	13.01	13.61	8.38	10.14	11.41	11.65	8.42	
1916	2.03	2.81	2.77	4.93	12.09	7.50	13.26	10.37	8.57	17.60	13.66	3.16	
1917	0.58	0.45	0.47	4.18	11.64	9.45	11.59	16.35	8.44	10.03	28.84	9.14	
1918	3.96	0.37	0.39	4.75	15.10	5.39	4.78	5.81	9.04	15.71	7.73	0.91	
1919	2.47	0.34	0.38	6.34	7.28	12.30	5.67	6.78	8.44	15.85	7.56	5.64	
1920	0.60	0.40	0.94	1.13	9.31	10.63	10.08	10.82	6.12	24.06	9.10	2.51	
1921	1.52	1.35	0.52	2.16	6.24	10.16	12.99	17.00	11.49	12.29	13.98	10.70	
1922	4.81	0.94	0.07	1.64	15.71	8.00	3.62	13.29	10.37	16.01	16.79	11.04	
1923	3.88	0.46	0.57	1.62	12.28	13.36	4.49	-1.00	-1.00	-1.00	-1.00	-1.00	
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	

1941	4.00	-1.00	-1.00	-1.00	-1.00	10.46	9.56	11.53	8.04	13.28	8.80	4.09
1942	3.05	1.90	2.15	3.51	13.87	7.14	6.01	11.81	15.07	17.29	6.50	11.94
1943	1.73	1.85	2.02	9.22	17.26	15.46	8.16	7.42	12.02	11.05	12.63	11.72
1944	1.25	1.60	0.06	5.58	14.45	10.61	8.69	11.69	8.73	16.45	9.98	13.52
1945	1.92	0.24	0.24	1.33	11.54	9.01	7.85	7.97	8.90	6.79	17.58	11.83
1946	1.69	0.13	0.96	2.23	5.50	5.38	9.89	8.05	10.21	8.43	10.75	10.96
1947	0.22	0.68	0.41	0.42	6.16	11.27	9.90	6.05	11.21	15.66	5.65	5.50
1948	1.62	0.33	0.60	0.25	9.92	7.75	9.71	8.43	8.69	8.03	13.95	4.12
1949	0.31	0.28	1.32	0.48	7.14	9.90	10.40	11.12	5.23	16.30	21.21	9.73
1950	0.19	1.06	0.77	2.94	9.22	8.46	12.13	10.09	11.50	11.41	18.82	13.60
1951	0.61	3.28	0.30	5.67	7.01	3.41	5.08	4.07	11.25	16.51	9.18	6.20
1952	2.95	1.28	0.12	2.27	6.05	6.10	5.96	7.01	4.94	21.48	10.43	10.45
1953	4.91	0.46	0.81	1.14	9.52	5.93	11.24	6.95	11.52	13.80	14.87	5.60
1954	1.57	0.82	0.73	2.46	10.05	8.43	6.65	6.44	8.11	10.77	12.01	6.54
1955	9.18	0.72	1.20	0.82	10.86	8.53	8.18	13.90	14.19	13.38	21.74	10.44
1956	5.53	2.10	3.72	4.26	12.21	6.52	13.50	5.56	6.57	14.03	14.25	4.02
1957	0.48	0.18	0.09	0.00	9.84	7.91	10.25	9.92	6.39	10.93	9.05	9.47
1958	3.19	3.63	2.60	5.59	5.92	4.84	12.75	10.44	8.43	13.29	4.93	4.39
1959	1.08	0.06	0.20	3.60	8.20	16.94	8.31	8.39	10.92	12.37	10.67	19.91
1960	0.43	0.59	3.89	9.32	10.99	11.72	3.37	7.62	6.96	12.41	11.74	21.19
1961	0.66	0.14	0.09	3.40	6.07	9.04	7.64	13.12	8.08	12.14	11.14	7.77
1962	-1.00	-1.00	-1.00	1.42	7.82	8.00	7.74	6.15	9.87	6.43	8.59	5.81
1963	4.65	0.52	0.40	-1.00	-1.00	-1.00	-1.00	-1.00	10.34	18.61	-1.00	-1.00
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9.60	0.70
1965	4.88	0.23	0.00	0.00	9.40	6.35	7.12	-1.00	-1.00	11.60	20.80	3.83
1966	0.94	0.29	0.58	3.26	9.92	10.64	9.85	13.67	8.50	9.82	26.14	17.05
1967	1.18	0.05	0.77	5.45	5.11	9.98	9.98	7.58	8.76	9.56	14.75	2.88
1968	0.00	2.32	1.39	0.53	11.73	6.35	5.85	8.13	5.69	10.99	7.85	1.20
1969	3.03	1.28	0.49	4.17	13.01	6.87	10.06	4.93	12.56	10.58	14.25	9.61
1970	6.46	0.45	3.21	2.66	10.92	-1.00	-1.00	-1.00	-1.00	7.61	20.37	-1.00
1971	3.12	1.92	2.61	0.02	11.95	8.00	9.50	8.80	12.20	7.00	11.20	0.40
1972	4.50	1.00	2.20	11.20	6.40	9.50	2.10	5.60	11.00	10.40	6.50	5.80
1973	1.10	0.40	0.30	2.50	5.00	9.10	7.30	10.40	10.70	14.50	20.50	3.50
1974	0.00	0.20	0.90	1.40	7.30	4.40	11.50	12.70	10.70	12.40	18.40	3.80
1975	0.10	0.30	1.10	0.40	7.30	10.40	5.50	17.10	6.40	15.70	13.50	14.00
1976	1.00	0.20	0.10	4.60	7.30	7.00	3.70	6.70	17.50	9.50	7.60	3.50
1977	0.90	0.30	0.00	0.00	7.30	7.40	6.10	12.80	8.60	11.60	11.30	4.40
1978	2.60	0.60	3.60	12.20	5.90	10.10	7.70	8.30	9.10	7.40	6.80	2.00
1979	0.30	0.90	0.10	5.50	8.20	8.70	6.20	12.20	9.70	12.10	12.10	5.00
1980	4.40	0.60	0.00	2.20	11.00	9.00	10.70	11.20	6.40	8.00	10.00	5.00
1981	4.50	0.60	1.10	14.10	10.70	11.00	12.30	6.80	3.10	7.20	19.20	11.40
1982	5.30	0.50	0.90	5.30	9.00	6.50	4.30	3.90	7.30	15.20	5.50	1.60
1983	1.30	0.10	0.60	2.30	13.80	12.00	8.20	7.90	9.40	10.10	7.40	8.60
1984	2.90	1.80	0.30	1.40	11.80	6.30	4.00	14.00	5.10	9.80	12.60	2.10
1985	3.80	1.60	0.20	0.20	9.40	11.60	6.30	8.10	8.90	7.30	9.00	12.90
1986	1.10	0.40	0.40	11.20	7.10	6.90	7.00	6.20	10.80	13.20	5.90	2.90
1987	1.30	2.00	0.00	6.90	16.00	5.10	8.60	10.50	12.40	14.90	7.20	4.80
1988	0.30	1.00	0.10	2.50	8.00	14.60	6.50	12.50	16.20	8.30	12.60	4.50
1989	0.30	0.00	0.10	0.60	4.30	4.60	4.70	8.40	11.90	14.90	14.00	4.40
1990	0.50	0.10	1.40	2.80	11.00	5.70	9.80	6.00	11.00	16.00	8.40	10.10
1991	1.40	0.70	4.80	1.90	18.80	6.70	8.90	4.60	13.00	13.10	13.60	2.80
1992	0.40	0.90	0.20	6.40	6.30	10.00	9.60	9.30	10.40	8.00	11.70	6.20
1993	2.60	0.20	3.10	7.20	8.10	10.90	5.10	7.90	14.20	14.30	10.40	5.70
1994	2.40	0.60	1.90	3.00	12.10	7.70	1.00	7.40	8.50	6.00	13.40	2.20
1995	6.00	0.10	1.10	3.50	7.70	12.00	13.70	5.30	6.80	9.10	11.80	7.40
1996	14.60	5.60	2.70	3.50	17.80	8.30	6.90	7.70	11.10	7.20	9.70	4.70
1997	0.80	1.30	0.00	1.30	5.60	5.00	6.20	7.50	5.40	4.80	3.40	0.50
1998	0.30	0.90	0.90	8.60	13.90	10.60	10.40	11.40	6.30	18.80	5.50	15.70
1999	3.10	1.60	3.70	2.80	6.60	13.60	7.30	15.80	15.20	10.10	16.20	16.00
2000	3.90	0.80	0.10	2.40	8.50	19.50	7.80	8.10	5.10	14.80	8.00	21.20
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	20.47	18.64	11.41	6.28
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	11.13	10.24	20.98	5.20
1948	2.52	0.37	0.34	0.70	14.54	5.83	16.71	18.39	13.19	18.77	12.33		
1949	0.52	0.37	0.49	4.56	14.00	15.34	7.46	18.00	20.68	13.19	28.43	16.17	
1950	0.97	2.16	0.60	4.50	12.20	15.25	20.49	9.66	17.00	12.52	21.00	13.65	7.91
1951	3.18	5.43	0.79	6.13	9.48	7.23	9.57	5.82	13.21	14.74	8.85	13.92	
1952	3.44	1.44	0.42	3.77	13.63	7.82	6.37	8.08	10.92	18.94	15.12	23.49	7.50
1953	11.92	0.37	1.51	4.19	16.07	6.89	7.04	1.00	25.44	13.70	19.24	6.57	
1954	2.20	1.72	0.83	6.37	21.55	23.82	18.85	11.68	16.70	13.84	20.01	10.80	
1955	12.46	1.99	2.40	1.64	15.32	17.51	12.46	17.95	11.47	4.46			
1956	12.45	2.53	4.05	5.28	16.98	10.17	17.97	8.64	16.19	8.36	10.32		
1957	1.65	0.40	0.64	0.27	12.71	8.62	12.06	13.32	11.16	14.05	5.77	7.18	
1958	5.99	4.43	5.10	2.50	13.61	14.43	12.30	9.17	-1.00	-1.00	-1.00	-1.00	
1959	1.02	0.09	0.31	2.91	7.24	14.26	9.67	-1.00	-1.00	-1.00	-1.00	-1.00	
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1970	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1971	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1972	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1973	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1974	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1975	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1976	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1977	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1978	-1.00	-1.00	3.30	11.80	11.80	5.70	14.50	15.40	13.60	11.10	10.90	1.40	
1979	0.80	1.60	0.20	10.80	9.10	9.40	12.80	10.60	9.90	6.50	8.10	7.60	
1980	6.50	2.50	0.40	2.00	12.50	13.80	12.40	12.20	4.70	14.10	10.90	8.80	
1981	6.30	2.70	6.40	12.30	12.70	14.10	11.90	9.90	7.80	21.00	14.20	9.80	
1982	6.30	1.20	0.80	3.30	7.50	10.20	5.70	7.70	8.10	16.10	5.80	1.40	
1983	0.80	0.30	0.20	1.80	9.10	7.10	9.80	8.80	13.80	9.10	13.30	10.30	
1984	3.20	5.40	0.80	2.20	9.10	11.00	5.70	16.60	15.80	17.80	8.70	2.80	
1985	5.00	0.80	1.00	0.60	6.80	10.50	8.00	10.20	11.80	6.70	7.60	4.90	
1986	1.10	0.30	0.40	7.70	9.10	3.40	6.10	1.40	10.90	8.40	6.80	0.90	
1987	0.50	0.50	0.20	4.00	10.10	3.20	5.00	7.40	26.40	26.30	13.50	13.60	
1988	0.40	1.20	0.10	1.70	12.20	10.90	8.90	15.20	14.50	12.20	10.40	7.00	
1989	0.60	2.60	2.00	1.40	6.90	8.00	12.20	14.00	13.00	14.80	10.20	8.20	
1990	5.10	0.30	2.30	3.10	12.50	7.80	7.50	8.20	16.60	14.60	10.40	9.00	
1991	0.80	1.20	3.40	2.20	13.50	6.60	8.20	4.80	11.70	8.80	11.10	5.80	
1992	1.90	0.90	0.40	6.10	16.10	9.60	6.40	12.00	9.10	9.60	14.10	5.50	
1993	3.00	0.80	3.50	7.90	15.10	13.50	4.50	5.10	15.80	14.90	14.90	6.10	
1994	0.60	0.10	0.20	0.00	5.90	13.20	2.70	8.10	7.10	14.80	12.30	1.60	
1995	4.30	0.60	0.90	5.40	12.40	15.50	8.70	14.70	11.40	10.60	11.40	10.50	
1996	13.80	4.10	4.20	2.10	13.70	10.60	8.10	8.90	15.30	19.40	13.40	6.40	
1997	1.40	1.50	0.00	1.00	8.00	11.60	6.80	5.50	9.90	6.00	5.10	0.70	
1998	0.60	2.00	2.30	7.60	8.20	13.50	11.40	5.90	6.00	8.40	12.00	14.20	
1999	4.50	2.30	3.50	8.40	8.30	9.70	7.00	19.90	14.60	12.90	18.20	20.90	
2000	9.30	1.40	0.50	4.30	11.00	14.70	8.60	12.10	9.10	13.30	8.10	11.30	
1911	0.89	2.41	1.41	5.27	19.70	11.43	10.58	9.58	11.19	18.46	20.05	2.30	
1912	2.14	3.32	0.24	1.29	8.34	13.51	11.60	8.15	9.39	21.17	16.35	5.24	

1913	3.57	2.52	0.60	3.54	16.29	10.71	8.70	10.42	14.12	14.90	15.02	7.19
1914	0.83	1.55	1.19	4.44	11.42	14.55	3.54	16.85	15.38	18.17	14.32	5.02
1915	2.54	6.57	0.76	12.19	11.17	10.40	15.73	12.47	14.87	17.78	24.27	10.16
1916	0.75	2.60	2.66	4.73	8.41	11.81	9.64	10.50	9.88	17.29	18.42	6.49
1917	0.68	0.55	0.75	3.81	11.24	14.50	13.93	12.83	14.10	10.04	27.04	9.97
1918	3.92	0.76	1.34	4.20	14.51	9.43	7.83	11.82	12.10	23.57	15.37	1.04
1919	4.03	1.15	0.59	11.66	5.20	8.16	9.37	10.17	15.48	15.84	9.09	7.73
1920	0.37	0.71	0.78	0.08	6.34	7.86	13.61	14.27	9.12	18.30	10.39	3.32
1921	3.32	2.93	0.26	6.63	9.76	15.23	15.50	15.41	15.69	9.28	22.26	8.87
1922	6.69	1.35	0.21	1.41	12.29	9.98	5.66	6.95	13.78	16.57	10.80	5.74
1923	0.88	0.47	0.80	1.54	9.13	10.32	6.83	14.04	9.68	42.22	21.79	2.17
1924	0.69	4.64	1.35	12.47	11.17	13.63	14.62	8.86	17.03	14.82	22.76	7.49
1925	1.97	1.76	0.64	4.00	4.06	10.17	14.23	7.25	13.42	23.43	16.65	4.19
1926	0.37	2.05	1.08	0.57	10.42	26.75	18.21	19.92	8.27	17.39	26.82	11.68
1927	4.06	1.25	3.82	9.21	17.56	15.66	17.52	16.51	12.43	12.14	25.41	11.70
1928	2.18	1.72	3.28	0.88	8.88	13.90	8.05	22.06	13.76	13.44	18.83	15.06
1929	0.73	0.61	4.18	2.61	9.06	14.58	8.52	20.46	5.22	15.49	15.72	6.00
1930	2.33	0.61	0.46	4.26	15.39	6.51	7.72	7.76	8.92	5.60	19.52	8.15
1931	1.46	1.38	7.72	3.95	14.49	13.85	16.18	10.13	8.47	11.57	27.41	1.35
1932	1.49	0.91	2.29	2.51	12.58	12.06	12.40	9.85	5.81	12.87	39.69	13.53
1933	1.22	0.23	1.08	0.04	9.57	12.81	7.49	8.45	10.40	8.32	34.97	17.34
1934	2.02	0.96	2.64	7.77	15.37	6.10	9.69	16.30	19.00	16.59	20.87	17.10
1935	2.82	3.32	0.60	4.29	10.46	9.36	22.06	13.37	12.85	10.10	41.50	20.83
1936	1.32	0.14	1.02	1.78	9.70	6.30	8.88	18.40	13.46	20.00	14.00	4.61
1937	3.10	0.25	0.57	1.90	13.34	10.27	10.67	12.50	12.80	22.00	21.25	25.23
1938	1.44	0.83	1.20	2.63	14.85	17.29	15.39	17.57	10.36	13.11	11.14	21.86
1939	0.35	0.13	0.40	1.18	4.68	12.31	10.74	9.68	16.34	16.93	32.64	11.27
1940	4.82	2.22	1.45	0.61	7.23	9.39	9.83	18.05	10.97	14.67	17.95	3.34
1941	2.59	2.90	2.21	3.42	7.44	13.33	12.56	15.20	14.68	23.76	16.61	2.99
1942	2.58	1.13	4.75	6.30	12.06	13.47	10.87	8.37	14.03	23.07	9.81	26.00
1943	1.12	2.41	1.86	0.68	20.56	15.42	6.50	10.68	13.40	12.52	19.08	12.25
1944	2.00	1.49	0.30	7.25	14.61	10.93	9.58	21.30	5.90	23.24	11.05	15.67
1945	2.20	0.31	0.66	1.17	11.75	7.27	6.43	12.08	11.83	11.81	23.15	27.99
1946	0.68	1.09	1.91	0.86	13.21	3.78	12.86	9.25	11.67	8.73	17.14	14.25
1947	0.00	2.30	1.49	2.90	7.03	13.13	12.94	11.76	10.29	11.04	7.81	6.90
1948	2.46	0.23	0.29	0.43	7.34	4.69	9.75	11.14	9.35	9.72	13.41	3.38
1949	0.21	0.04	0.00	0.27	9.84	18.58	10.59	10.10	6.50	18.90	32.88	11.90
1950	0.35	2.24	1.15	2.81	5.45	14.27	14.93	11.76	6.79	13.51	26.86	20.79
1951	1.92	4.59	0.69	9.53	12.50	8.84	8.72	7.48	9.21	19.78	17.46	11.99
1952	2.65	0.58	0.30	5.40	13.95	9.02	11.22	11.35	10.01	15.53	9.48	21.98
1953	5.83	0.49	1.88	3.18	8.25	4.33	18.04	14.24	4.36	20.19	16.74	6.45
1954	0.98	1.29	0.74	2.09	8.68	11.36	12.94	9.99	9.28	10.10	19.24	7.67
1955	8.74	0.73	0.37	0.84	12.14	11.66	8.34	12.07	9.27	12.33	21.31	13.63
1956	6.60	1.49	3.23	2.79	15.38	4.97	17.65	13.89	12.38	20.43	16.84	2.94
1957	0.42	0.58	0.19	0.14	6.30	12.39	6.53	21.71	13.25	9.56	17.23	6.77
1958	4.18	7.38	2.31	7.33	8.46	9.64	11.21	8.62	9.58	15.71	8.45	9.68
1959	1.15	0.19	0.19	4.82	7.91	9.00	11.25	13.40	14.52	7.04	9.08	30.01
1960	2.46	1.46	-1.00	12.32	17.63	-1.00	-1.00	-1.00	-1.00	25.78	18.47	22.21
1961	0.83	0.02	0.15	4.08	3.87	17.82	7.23	14.89	9.89	17.22	12.22	5.25
1962	2.23	0.89	0.48	3.62	18.50	9.57	14.91	11.28	12.19	10.69	15.43	13.27
1963	6.24	2.17	2.41	5.00	9.19	10.33	14.17	16.20	7.39	11.93	11.36	2.50
1964	0.00	0.00	0.00	2.41	-1.00	-1.00	-1.00	-1.00	11.41	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	2.01	8.90	7.92	7.33	10.24	11.17	19.64	30.28	7.17
1966	2.85	-1.00	1.09	5.30	12.20	6.35	10.85	14.91	10.02	10.29	26.03	17.93
1967	-1.00	-1.00	0.78	2.81	7.57	13.66	14.43	8.37	6.42	17.33	22.05	5.12
1968	0.05	1.44	3.22	0.31	10.51	9.30	6.06	17.08	12.85	20.39	11.36	2.91
1969	1.80	0.18	0.76	1.71	14.02	5.75	17.01	11.27	19.06	12.51	12.28	17.56
1970	10.85	2.09	1.56	-1.00	14.73	7.02	13.23	14.51	10.20	12.30	20.90	16.40
1971	4.97	0.50	-1.00	-1.00	14.90	11.00	9.80	17.10	7.40	-1.00	12.00	0.80
1972	11.80	1.50	0.20	5.80	6.10	6.70	4.80	8.10	10.40	14.80	8.50	6.60
1973	4.00	0.50	0.00	0.80	4.30	9.60	13.60	12.30	14.10	13.40	23.40	6.70
1974	0.00	0.70	0.80	1.20	5.60	11.00	14.90	9.00	12.80	21.10	15.50	4.60
1975	0.10	1.00	1.30	0.30	8.70	10.00	9.40	17.30	16.00	18.10	11.90	19.50
1976	1.20	0.20	0.00	2.50	8.10	10.50	5.60	9.30	9.90	12.20	9.60	0.40
1977	0.90	0.00	0.40	1.30	6.70	8.10	5.70	20.10	8.80	19.40	20.10	4.20
1978	1.40	1.00	4.00	9.80	6.50	15.60	13.20	13.40	7.70	12.40	12.20	1.50
1979	0.10	0.70	0.20	6.80	12.60	10.60	9.60	12.10	8.00	10.30	13.00	6.00
1980	4.80	2.20	0.20	1.20	14.00	5.90	8.50	9.00	5.30	10.70	9.80	7.70
1981	11.10	0.90	4.50	10.20	18.50	12.70	9.20	13.10	7.10	9.80	38.10	14.90
1982	7.60	1.90	0.80	7.30	9.50	6.00	8.30	4.60	11.90	16.40	7.20	3.30
1983	0.60	0.00	0.00	5.00	10.90	9.10	6.70	7.80	10.60	12.40	11.50	13.20
1984	2.20	2.60	0.20	0.90	11.60	9.00	6.30	14.90	7.90	12.10	18.20	1.50
1985	2.70	2.20	1.40	0.80	13.30	7.80	11.00	11.80	9.40	14.30	8.70	16.30
1986	2.40	0.60	1.80	4.60	4.40	11.50	7.40	14.50	10.30	18.00	8.80	3.50
1987	0.60	1.50	0.10	13.70	17.80	7.50	13.60	14.80	15.90	20.90	10.80	9.70
1988	0.10	1.30	0.20	1.30	5.60	7.00	7.60	11.10	14.50	16.40	14.10	6.30

1975	0.00	0.00	0.00	1.00	12.50	7.90	11.10	9.30	7.50	17.50	9.60	5.10
1976	0.00	0.00	0.00	4.80	7.90	7.30	5.90	5.80	7.50	13.30	10.20	2.20
1977	0.10	0.00	0.00	0.70	14.00	10.10	10.90	7.40	9.90	14.90	6.30	3.50
1978	0.50	0.00	0.40	5.40	6.80	8.50	7.80	8.90	10.30	10.40	16.70	4.60
1979	0.00	0.10	0.00	11.20	11.90	7.90	7.70	9.30	5.30	18.50	4.80	3.90
1980	1.10	0.20	0.00	0.50	9.10	12.80	7.90	10.90	11.10	9.90	10.70	3.80
1981	0.20	0.00	2.40	13.70	7.70	14.50	11.50	5.00	9.50	8.70	12.20	4.60
1982	2.80	0.10	0.00	4.00	5.50	2.90	9.40	8.20	13.50	13.70	4.10	0.30
1983	0.00	0.00	0.00	2.90	5.40	5.60	9.80	5.70	11.00	8.50	6.20	4.70
1984	2.40	1.20	0.00	1.40	11.20	11.30	10.60	11.70	8.30	19.20	5.60	0.80
1985	0.20	0.00	1.50	0.50	8.50	18.60	7.90	6.60	15.60	8.10	10.20	6.20
1986	0.10	0.10	1.80	5.30	5.40	12.70	7.80	6.30	12.40	22.40	7.80	0.80
1987	0.10	0.10	0.40	4.80	10.20	13.00	11.30	7.50	11.60	12.00	10.90	2.40
1988	0.00	0.10	0.30	2.30	13.30	10.30	11.60	12.40	6.70	12.60	12.30	5.00
1989	2.20	0.00	0.60	0.00	5.00	11.10	10.30	11.60	6.90	7.80	14.30	5.60
1990	0.90	0.00	0.00	4.20	8.40	7.00	13.20	11.60	7.60	12.90	5.40	4.50
1991	0.20	0.00	0.20	9.00	13.80	10.50	10.80	10.90	12.80	9.00	12.50	1.30
1992	0.00	0.10	0.10	1.80	8.70	13.60	10.50	9.90	12.20	13.90	7.50	2.20
1993	3.70	0.00	0.70	3.30	8.60	18.10	11.50	7.90	11.00	8.60	9.40	3.70
1994	0.40	0.00	5.60	1.80	13.70	6.70	5.60	9.20	9.30	11.00	14.00	0.20
1995	0.20	0.10	0.80	5.90	8.50	13.00	10.50	7.00	5.90	10.10	13.70	1.90
1996	5.70	2.20	2.90	3.50	15.00	8.20	4.70	13.50	7.00	13.10	13.70	3.70
1997	1.50	0.50	0.00	0.70	6.10	4.80	11.00	5.90	7.30	13.70	13.10	1.10
1998	0.10	0.00	0.00	1.30	12.40	9.60	11.80	13.30	8.50	11.00	10.80	7.40
1999	3.20	3.20	1.10	2.50	8.70	14.20	5.00	8.70	13.30	4.70	8.20	9.60
2000	1.80	0.30	0.00	5.70	7.90	11.90	9.30	10.70	9.30	13.70	6.60	7.00
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4.95	21.19	14.21
1934	2.74	0.49	2.01	3.49	14.25	10.90	12.14	9.33	13.41	14.95	17.11	8.20
1935	7.68	2.60	2.20	6.28	18.52	13.69	19.30	13.67	8.72	12.73	54.32	19.93
1936	1.34	1.17	0.88	3.52	23.55	8.23	13.47	10.99	11.73	11.36	16.55	2.30
1937	8.34	1.38	1.02	3.21	16.45	15.36	14.27	15.36	14.30	12.16	20.42	22.15
1938	2.32	2.46	1.02	9.21	25.89	23.61	9.65	12.85	13.04	10.25	14.92	21.13
1939	0.95	0.29	1.33	2.21	6.53	11.97	5.57	17.68	10.34	7.43	23.37	8.94
1940	5.17	2.82	1.50	1.41	12.80	6.76	9.05	14.31	8.15	13.00	14.11	2.06
1941	1.83	3.05	2.27	1.73	18.08	11.91	10.04	14.14	8.38	25.46	17.27	5.35
1942	1.46	1.03	2.56	7.19	10.84	17.08	9.39	18.00	8.15	23.88	8.09	11.82
1943	3.94	5.19	1.27	5.13	9.22	12.00	7.19	13.44	20.11	12.11	12.47	19.42
1944	3.20	3.12	0.56	12.71	20.39	10.17	17.23	16.70	11.48	20.96	13.11	29.16
1945	2.53	1.71	1.27	1.80	14.48	17.20	15.19	14.71	9.64	9.29	9.69	12.87
1946	0.45	0.78	1.07	2.48	11.30	9.80	20.56	7.52	16.53	11.08	5.06	16.49
1947	0.45	1.32	0.61	7.48	4.98	15.61	7.85	13.64	10.22	14.13	8.14	9.95
1948	1.79	0.80	0.62	2.27	12.73	15.95	12.68	15.24	10.35	12.77	17.35	4.20
1949	1.17	1.41	0.82	5.12	10.78	20.10	16.24	15.62	16.99	10.25	13.89	9.04
1950	1.68	3.71	0.89	9.82	12.75	10.78	16.60	9.24	13.05	6.94	13.12	16.51
1951	2.16	11.87	1.75	8.50	9.36	14.78	10.74	15.24	9.99	14.46	12.14	7.20
1952	4.08	1.01	0.45	6.00	12.76	10.27	17.65	14.67	14.84	26.10	4.10	17.45
1953	9.70	1.85	2.38	2.68	14.79	9.86	8.70	11.14	6.80	16.26	13.20	12.20
1954	1.87	2.26	1.53	5.10	10.55	16.97	18.14	15.85	9.36	10.51	18.66	14.17
1955	13.26	1.02	2.52	0.98	7.32	8.48	17.45	16.57	9.55	5.41	31.16	11.70
1956	10.87	2.94	3.75	4.81	17.48	12.15	16.80	9.18	11.25	11.27	19.02	6.37
1957	1.30	1.89	0.16	0.35	9.47	8.74	3.64	9.65	8.13	12.16	25.04	8.16
1958	4.22	3.38	4.68	1.47	12.51	8.47	20.18	10.05	15.85	9.70	12.56	10.22
1959	1.51	0.73	0.44	3.86	7.85	13.61	11.62	10.35	16.06	13.11	16.61	32.43
1960	8.31	1.23	2.89	12.78	15.96	9.19	12.70	15.78	10.52	8.98	12.46	19.96

1961	1.55	0.49	0.84	5.30	5.67	16.65	10.78	12.99	9.95	16.04	13.75	4.19
1962	3.07	0.93	-1.00	-1.00	-1.00	-1.00	-1.00	13.76	11.89	11.43	14.94	3.57
1963	-1.00	3.55	0.89	13.42	19.36	-1.00	-1.00	-1.00	-1.00	-1.00	14.40	-1.00
1964	-1.00	-1.00	1.28	6.18	-1.00	-1.00	-1.00	6.27	8.97	11.89	13.80	17.60
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	13.13	10.96	12.66	28.09	13.70
1966	6.28	0.83	0.74	16.01	13.47	9.38	11.35	13.13	10.96	12.66	28.09	13.70
1967	4.01	1.56	1.79	11.31	10.12	20.02	15.65	12.15	16.84	13.69	17.00	11.98
1968	0.68	3.83	3.06	2.32	13.85	16.10	9.89	9.45	9.93	16.02	13.59	5.93
1969	3.24	0.96	1.93	4.23	17.09	3.05	11.58	13.32	14.80	6.59	8.58	15.25
1970	17.07	2.59	3.53	13.02	18.94	6.58	8.16	13.31	10.12	8.84	19.32	19.81
1971	3.23	1.40	4.87	0.61	6.70	12.20	14.80	15.20	-1.00	12.70	14.30	2.10
1972	18.80	2.30	1.30	9.60	12.10	12.50	11.30	11.70	12.30	16.10	8.50	6.70
1973	2.30	2.30	0.10	0.60	14.80	14.10	18.10	14.60	8.60	11.00	22.60	13.60
1974	2.10	1.00	0.90	2.50	8.30	9.50	12.70	10.70	10.10	10.60	12.90	3.40
1975	1.60	0.20	1.20	1.70	15.40	17.30	14.30	12.80	9.30	21.60	12.70	15.30
1976	3.10	1.70	2.30	8.90	10.90	11.70	4.30	4.00	14.30	8.20	8.70	1.40
1977	2.40	0.50	0.60	1.50	7.40	8.20	7.00	10.90	10.20	13.00	12.90	5.10
1978	1.50	2.60	2.70	13.60	10.50	11.80	11.50	14.80	9.80	9.40	15.00	3.80
1979	0.50	1.10	1.70	12.50	9.30	13.40	10.50	10.40	4.80	13.40	16.30	12.80
1980	5.80	4.20	0.50	3.30	14.90	12.60	6.20	12.30	11.20	17.10	12.90	6.50
1981	5.50	2.80	3.80	29.90	13.80	16.60	16.70	12.30	7.40	12.30	14.10	16.50
1982	3.70	1.50	0.60	5.00	5.70	10.40	13.50	11.10	8.80	14.30	4.50	2.80
1983	1.60	0.70	1.30	6.00	16.70	11.40	5.80	9.30	14.50	17.90	9.60	20.80
1984	2.40	2.10	0.70	1.40	11.40	17.30	13.50	15.70	9.80	11.60	11.00	6.60
1985	2.00	1.50	2.40	1.50	14.30	17.00	8.70	7.20	14.50	12.10	9.60	10.70
1986	2.80	0.40	0.90	14.80	10.60	10.60	3.80	8.20	11.30	12.10	3.00	1.90
1987	1.70	1.70	0.20	20.00	16.10	13.60	20.60	12.50	13.70	16.80	21.40	4.80
1988	0.90	4.10	1.50	1.30	10.00	8.10	15.70	11.50	11.80	20.80	9.30	7.30
1989	2.10	4.80	0.90	0.50	3.40	9.50	15.10	16.90	7.20	16.20	15.20	8.30
1990	5.20	1.00	3.20	2.60	12.40	5.00	9.30	13.00	10.50	18.20	10.90	9.60
1991	2.00	1.90	2.90	3.50	15.10	8.80	10.10	10.90	12.40	13.30	20.80	3.80
1992	1.80	0.60	0.60	3.90	22.00	12.90	14.40	16.40	14.30	9.60	8.10	6.10
1993	5.60	0.30	8.10	12.00	9.40	20.90	9.90	7.50	17.90	15.40	14.80	5.70
1994	1.30	1.80	3.70	2.00	15.00	21.30	11.40	16.90	9.50	12.40	21.20	4.10
1995	6.20	0.30	1.30	2.80	15.50	16.70	16.80	8.30	10.30	8.20	16.00	14.90
1996	14.40	4.20	3.40	8.60	14.80	13.90	8.80	10.70	8.60	11.30	25.20	5.50
1997	1.60	0.90	0.80	3.80	14.20	8.70	6.00	5.70	9.70	14.30	8.50	0.40
1998	1.00	0.60	0.80	6.90	12.60	13.30	12.40	18.20	17.90	8.90	10.20	14.90
1999	3.40	6.30	4.40	9.10	17.90	11.70	16.90	14.80	12.10	14.20	18.60	38.80
2000	6.60	2.50	1.60	3.10	12.80	20.80	5.40	11.90	6.80	15.90	8.10	25.70
2011	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2012	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2013	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2014	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2015	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2016	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2017	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2018	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2019	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2020	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2021	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2022	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2023	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2024	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2025	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2026	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2027	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2028	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2029	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2030	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2031	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2032	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2033	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2034	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2035	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2036	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2037	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2038	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2039	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2040	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2041	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2042	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2043	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2044	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2045	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2046	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1949	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1950	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1951	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1952	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1953	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1954	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1955	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1956	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1957	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1958	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1959	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1971	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1972	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1973	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1974	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1975	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1976	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1977	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1978	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1979	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1980	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1981	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1982	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1983	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1984	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1985	-1.00	-1.00	-1.00	-1.00	1.20	6.60	9.10	6.50	12.60	6.90	4.20	11.20	2.90
1986	1.10	0.00	1.60	7.50	11.40	9.20	5.10	4.40	11.20	20.80	11.20	2.90	
1987	1.30	1.60	0.50	12.20	18.20	7.90	13.00	12.50	13.40	14.70	13.40	3.90	
1988	0.50	4.00	0.90	1.90	18.80	15.90	16.00	15.50	16.00	17.60	13.00	4.30	
1989	2.20	4.50	1.20	2.00	4.00	7.30	15.30	10.40	8.10	11.50	13.90	7.60	
1990	0.00	0.00	0.00	0.00	12.10	2.70	10.80	10.20	14.60	18.50	8.90	9.30	
1991	0.50	1.50	3.20	3.60	10.10	8.50	13.20	7.00	13.90	10.00	10.90	1.10	
1992	0.50	0.20	0.40	2.30	14.40	13.60	7.90	11.80	9.20	15.70	10.40	4.30	
1993	2.40	0.10	5.80	7.40	14.50	22.70	7.60	7.40	15.70	12.20	6.40	2.90	
1994	1.10	1.10	1.60	1.20	15.80	9.90	8.40	9.40	6.50	13.40	19.00	2.60	
1995	0.90	0.00	0.30	1.10	9.60	18.50	15.00	18.40	9.60	8.10	10.20	6.60	
1996	8.90	3.30	2.90	8.40	17.90	11.40	11.30	15.60	9.90	13.80	16.30	11.70	
1997	0.40	1.30	0.40	4.10	8.50	9.10	2.30	4.40	10.40	7.80	12.30	1.10	
1998	0.80	0.60	1.30	3.30	18.60	5.70	16.90	11.40	15.50	10.40	16.50	13.20	
1999	3.10	6.10	1.90	6.90	12.40	25.60	11.90	13.70	14.60	10.00	11.80	28.20	
2000	4.70	1.10	1.30	5.60	10.80	17.90	9.60	18.10	17.80	18.20	11.30	28.30	
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	1.07	13.37	11.97	11.69	12.14	7.76	14.98	11.99	2.97	
1913	2.23	0.84	0.11	0.69	15.17	12.05	5.19	7.71	8.52	8.98	17.27	1.70	
1914	0.25	0.50	0.11	2.57	6.68	12.14	7.69	8.76	18.17	18.62	9.62	3.62	
1915	0.59	3.72	0.11	9.67	6.38	14.64	19.10	13.37	11.46	16.33	18.80	4.52	
1916	0.14	1.79	0.66	8.43	10.64	10.82	15.32	14.31	12.31	20.40	16.14	6.19	
1917	0.33	0.14	0.17	0.88	19.41	10.17	17.68	16.01	9.00	19.40	23.99	6.01	
1918	1.49	0.27	0.05	5.16	13.58	16.86	9.85	7.07	12.19	14.20	6.55	1.23	
1919	0.84	0.06	0.05	10.32	7.32	6.64	12.79	10.67	15.03	10.21	11.33	2.72	
1920	0.49	0.20	0.37	1.45	8.45	13.40	21.89	12.56	10.04	23.96	12.40	1.76	
1921	0.44	1.28	0.61	2.76	7.89	15.03	9.37	14.88	12.37	19.32	8.45	6.98	
1922	4.17	0.50	0.05	0.51	14.12	12.21	2.31	8.80	14.10	12.79	12.10	7.16	
1923	1.44	0.55	0.38	0.74	7.01	10.44	4.92	13.22	15.85	31.62	7.75	1.69	
1924	0.18	2.01	0.04	3.77	12.84	16.83	15.77	13.99	9.17	11.40	11.19	6.77	
1925	1.22	0.32	0.16	2.98	5.06	10.24	10.75	7.99	11.84	12.51	11.67	2.43	
1926	0.11	1.43	0.40	0.05	4.70	13.10	13.15	18.60	17.95	16.30	13.30	7.88	
1927	2.05	2.05	0.94	7.40	16.00	17.58	29.70	8.40	14.58	10.25	16.81	8.65	
1928	1.04	1.75	1.82	1.13	6.14	12.15	13.85	14.19	13.08	17.42	19.25	5.20	
1929	0.20	0.30	0.72	0.85	8.93	11.80	9.40	8.04	10.25	15.63	8.36	2.30	
1930	0.52	0.34	0.30	4.40	11.07	6.80	10.27	5.10	13.06	9.21	5.68	2.31	
1931	0.68	0.64	2.30	1.45	18.47	15.72	12.95	11.13	15.38	12.08	28.24	2.82	
1932	2.06	0.26	0.23	3.38	15.69	17.06	8.43	13.84	9.79	20.63	27.95	4.09	

1933	1.36	0.09	0.55	0.05	10.70	6.43	13.72	13.47	14.50	9.39	18.26	8.37
1934	1.10	0.36	0.69	2.22	15.31	12.83	6.04	8.39	12.79	13.05	18.20	7.43
1935	3.56	0.86	0.87	3.80	15.47	15.95	18.96	18.79	11.88	8.99	49.13	12.20
1936	0.89	0.15	0.46	2.56	16.26	14.36	15.45	10.21	16.54	11.09	14.37	1.10
1937	4.79	0.55	0.15	1.23	11.96	11.99	14.77	15.03	11.93	16.00	19.18	18.32
1938	0.51	0.27	0.19	5.83	17.83	9.46	7.47	14.46	15.90	16.32	15.67	13.90
1939	0.27	0.08	0.18	0.31	5.45	9.92	5.40	7.98	10.02	13.23	18.33	8.30
1940	1.93	0.96	0.14	0.44	9.37	5.80	8.12	10.28	11.26	13.86	16.53	0.68
1941	0.74	3.43	0.82	2.09	12.15	16.35	12.46	11.61	9.14	14.31	12.01	5.29
1942	0.71	0.13	0.63	3.09	8.39	11.61	9.00	11.34	12.41	15.94	4.88	8.78
1943	2.04	1.43	0.11	3.80	11.78	10.19	4.99	8.11	12.40	12.24	10.55	13.85
1944	0.97	0.50	0.07	7.44	9.91	7.00	8.78	16.98	10.88	24.29	10.70	14.65
1945	0.52	0.13	0.10	0.35	8.89	9.05	12.65	9.58	10.04	8.06	7.08	9.95
1946	0.13	0.28	0.24	0.80	11.90	10.68	13.59	7.14	17.11	11.39	8.47	8.57
1947	0.12	0.25	0.17	3.66	7.64	17.54	10.52	13.31	10.90	16.45	9.84	8.73
1948	0.56	0.07	0.30	0.43	10.10	8.72	11.74	11.78	9.63	10.44	13.22	2.54
1949	0.25	0.22	0.11	1.12	8.75	19.89	16.24	11.42	12.47	8.54	12.48	6.21
1950	0.28	0.63	0.16	3.25	8.77	16.05	10.16	11.44	11.28	9.29	14.00	12.13
1951	0.35	5.42	0.23	4.10	12.28	13.08	7.98	12.99	6.57	10.74	8.85	3.49
1952	1.67	0.35	0.00	3.24	15.38	9.43	9.55	8.39	11.05	19.52	6.31	11.03
1953	4.17	0.95	0.39	2.99	1.78	7.57	14.45	8.11	15.49	14.72	11.32	8.95
1954	0.79	0.76	0.97	3.87	9.20	8.52	13.67	13.36	9.87	9.46	10.99	5.95
1955	6.66	0.16	0.58	0.67	6.05	13.23	11.91	13.09	5.33	7.33	13.67	4.72
1956	5.46	0.88	0.98	2.39	11.07	7.70	14.59	6.96	9.05	13.16	17.83	2.58
1957	0.17	0.07	0.00	0.00	4.09	7.06	8.01	8.23	5.90	11.64	11.86	2.35
1958	0.97	0.84	2.49	1.23	10.66	10.73	10.31	6.19	10.39	8.27	10.00	2.73
1959	0.10	0.00	0.00	1.08	2.82	11.52	5.36	10.88	10.95	10.09	7.21	14.41
1960	3.30	0.38	0.98	4.29	12.47	10.74	7.44	13.73	11.36	13.00	11.37	12.53
1961	0.18	0.14	0.30	5.02	3.72	14.27	10.28	17.07	14.41	14.07	12.86	5.35
1962	0.66	0.11	0.75	0.71	10.00	9.90	14.00	17.05	6.84	15.38	9.83	-1.00
1963	6.05	1.52	0.13	4.39	6.38	7.75	14.50	11.96	9.64	9.76	15.83	0.29
1964	0.00	0.01	0.12	5.12	6.81	-1.00	-1.00	11.08	9.66	16.46	-1.00	-1.00
1965	-1.00	0.06	0.01	-1.00	9.44	-1.00	-1.00	-1.00	-1.00	9.78	14.22	6.15
1966	1.21	0.34	2.54	2.54	8.89	11.12	13.11	14.01	14.01	14.01	14.01	10.51
1967	0.56	0.14	0.27	6.71	6.17	14.51	13.53	12.27	10.54	12.59	12.19	8.18
1968	0.12	0.92	0.67	1.39	9.21	12.97	3.88	11.02	6.75	18.42	13.85	3.12
1969	0.73	0.13	0.88	6.90	9.89	9.83	4.80	14.42	15.55	5.72	7.70	8.26
1970	10.24	0.69	1.08	13.76	16.62	8.41	11.67	10.76	11.68	10.15	8.33	9.96
1971	2.34	0.26	2.82	0.31	3.42	13.90	12.10	14.10	7.90	12.20	7.00	0.30
1972	6.30	0.60	1.60	6.30	7.60	7.40	3.80	3.40	11.00	4.60	7.80	3.90
1973	0.60	0.30	0.00	0.80	12.80	12.00	10.60	13.50	7.20	15.60	19.40	4.70
1974	0.30	0.10	0.20	2.00	7.00	17.40	7.40	9.00	8.40	16.70	10.60	3.30
1975	0.30	0.00	1.50	1.30	14.30	10.10	15.00	15.70	7.30	23.30	10.70	8.60
1976	1.20	0.20	0.30	2.00	6.20	7.20	3.20	9.80	10.20	6.50	7.80	0.70
1977	0.60	0.20	0.00	0.70	8.80	5.50	3.80	14.00	7.60	15.10	8.90	4.60
1978	0.60	0.50	0.90	12.20	7.50	13.30	5.80	14.50	11.20	7.80	18.90	0.70
1979	0.10	0.20	0.10	16.40	7.10	10.20	10.10	15.90	6.00	14.40	10.80	6.20
1980	3.30	1.60	0.30	1.40	11.30	11.00	7.50	8.60	11.10	13.20	13.00	2.60
1981	1.90	0.50	2.10	9.00	6.10	13.40	16.30	10.70	7.00	9.50	13.50	12.30
1982	3.50	0.10	0.10	5.70	10.20	10.40	8.50	3.10	5.00	12.00	6.10	0.50
1983	0.10	0.00	0.90	3.20	7.90	8.80	3.40	9.10	17.30	16.00	14.60	10.30
1984	0.80	-1.00	-1.00	0.80	10.00	14.20	9.80	14.50	9.80	12.90	12.60	1.40
1985	1.60	0.40	1.00	1.10	11.20	11.70	7.50	10.10	14.80	12.70	9.00	10.60
1986	0.30	0.10	0.10	8.60	4.70	13.40	4.20	7.60	12.70	16.50	8.30	1.80
1987	0.50	0.40	0.10	15.90	9.90	9.50	16.30	9.10	10.40	17.80	12.70	5.50
1988	0.00	0.40	0.40	0.40	7.90	7.70	17.10	11.30	12.90	17.10	12.80	4.10
1989	0.80	1.10	0.10	0.10	3.30	8.60	12.00	13.60	6.60	16.40	12.30	5.20
1990	3.00	0.00	0.70	0.30	8.90	5.30	8.70	13.10	13.40	14.40	8.50	8.90
1991	1.10	0.50	1.10	4.50	11.10	6.90	7.10	10.50	11.40	12.00	12.00	1.60
1992	0.30	0.00	0.10	5.90	10.80	12.20	9.40	12.30	8.40	8.60	7.00	2.30
1993	1.70	0.00	3.00	4.10	8.60	20.60	6.40	5.60	15.20	11.10	12.50	2.70
1994	0.90	0.30	1.20	0.00	11.80	10.70	6.20	7.00	11.70	13.20	10.20	0.70
1995	1.00	0.10	2.30	3.00	6.10	8.80	10.40	11.90	9.90	13.50	13.40	6.70
1996	7.20	1.10	1.70	4.00	7.10	14.40	4.10	12.00	13.30	11.30	9.80	3.60
1997	0.10	0.30	0.00	3.20	7.40	9.90	4.80	4.40	8.70	8.90	3.70	0.40
1998	0.30	0.10	0.10	3.10	11.20	11.00	7.80	16.00	12.30	7.00	6.90	9.80
1999	1.60	1.80	1.20	2.10	14.20	13.80	14.60	13.50	12.60	14.80	24.50	24.60
2000	3.20	0.50	0.20	3.00	2.90	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	3.52	15.12	19.14	12.59	16.65	9.20	24.72	18.84	5.12
1942	2.65	2.59	8.67	7.37	10.05	21.87	9.89	12.74	12.05	17.63	7.56	10.92
1943	2.81	2.67	1.71	7.25	15.02	11.67	6.57	12.07	13.87	7.74	9.22	21.31
1944	2.70	1.81	0.82	5.98	8.52	11.28	8.82	13.47	11.51	21.64	11.57	17.20
1945	1.97	0.83	0.70	2.50	11.63	15.10	17.42	17.08	10.06	9.32	9.74	11.20
1946	0.50	0.67	1.56	1.81	15.71	9.85	18.44	8.69	10.57	7.96	6.03	13.45
1947	0.51	1.84	0.80	5.54	5.35	14.61	7.31	15.72	8.72	0.00	0.00	7.75
1948	1.56	0.74	1.06	1.63	6.05	11.00	12.22	9.76	9.14	8.70	14.34	2.19
1949	0.23	0.64	0.43	4.23	10.32	19.96	15.27	14.07	13.21	14.95	15.64	5.68
1950	0.65	2.31	0.29	9.79	13.33	11.07	15.84	20.94	8.42	11.07	12.59	15.54
1951	1.25	5.32	0.97	9.74	11.31	10.03	7.41	17.36	12.26	15.34	9.03	6.41
1952	1.46	0.19	0.04	7.70	18.03	9.51	21.14	21.48	20.44	22.06	9.17	21.00
1953	17.11	4.43	5.15	5.62	18.04	7.21	15.98	15.22	7.11	12.78	15.05	15.87
1954	4.12	5.22	3.52	7.30	15.69	16.45	16.69	17.82	10.35	10.53	26.29	22.30
1955	21.49	2.65	5.00	2.76	12.18	8.78	15.80	20.11	9.35	7.14	36.51	15.70
1956	18.97	4.61	10.90	8.52	23.12	12.60	18.24	16.81	10.50	11.51	20.81	15.47
1957	3.20	3.08	0.48	1.26	15.03	7.99	6.66	11.87	7.92	17.40	30.43	13.59
1958	13.26	5.89	5.85	3.63	12.39	9.51	18.34	9.39	16.46	12.15	15.59	11.05
1959	2.63	1.42	1.10	9.07	11.33	19.16	14.35	10.90	26.14	16.40	26.50	28.02
1960	-1.00	2.80	5.57	21.90	17.73	13.04	11.90	11.82	-1.00	-1.00	16.20	27.94
1961	3.50	0.92	1.64	9.41	11.83	19.21	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	6.01	1.77	14.29	23.07	15.78	19.37	18.31	13.50	9.00	15.86	-1.00
1964	-1.00	1.04	1.85	7.73	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	3.15
1965	7.78	0.04	0.04	0.04	20.12	19.73	8.76	10.35	15.69	19.26	24.39	16.89
1966	9.14	1.74	2.54	18.40	15.34	13.58	9.17	11.45	14.88	13.75	33.85	18.09
1967	5.47	1.79	4.56	17.37	-1.00	-1.00	-1.00	12.50	11.60	10.05	21.29	16.03
1968	1.05	5.22	7.46	5.36	17.99	15.32	16.47	12.89	9.61	17.15	9.94	9.79
1969	5.91	2.65	2.59	4.46	24.17	5.87	16.76	12.93	13.48	7.14	14.00	28.36
1970	-1.00	6.65	5.09	16.50	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1971	6.84	2.48	9.32	0.33	15.29	21.60	18.70	11.90	10.00	20.30	16.80	4.90
1972	31.30	3.30	1.50	13.90	17.10	17.80	11.70	11.90	13.40	14.20	12.00	11.90
1973	4.00	2.70	1.10	2.80	17.50	11.10	14.80	16.70	11.20	9.00	25.50	15.60
1974	3.50	1.80	2.60	3.30	10.40	10.30	14.30	9.70	15.50	12.00	22.10	5.50
1975	3.30	1.70	3.00	3.40	22.70	25.00	21.60	21.70	11.00	18.80	17.20	22.20
1976	5.00	3.90	4.70	10.40	9.80	9.20	5.60	11.00	19.40	15.30	13.40	2.70
1977	8.70	1.50	2.50	4.80	10.10	11.20	11.40	19.70	13.40	28.70	16.70	12.00
1978	3.60	6.50	4.20	16.40	19.40	8.10	20.00	15.90	15.40	6.80	17.10	4.40
1979	1.00	3.90	4.10	14.50	11.90	14.80	13.40	8.60	10.20	7.40	19.00	20.10
1980	9.90	7.00	1.90	4.60	12.30	16.20	7.10	12.00	9.30	13.50	13.70	11.60
1981	14.60	6.10	3.50	43.70	15.20	10.80	21.00	8.20	11.10	15.10	17.10	23.20
1982	6.90	2.50	1.80	8.00	7.10	11.40	18.70	13.40	10.90	16.20	6.80	6.30
1983	3.40	1.30	2.20	8.20	17.00	12.50	10.10	10.80	15.20	14.80	11.10	37.60
1984	4.60	4.40	1.10	1.90	11.40	13.50	17.60	22.20	9.80	14.10	15.50	8.50
1985	4.50	3.20	5.20	4.80	15.80	18.90	10.10	7.80	14.50	15.80	10.20	15.60
1986	6.60	1.10	3.70	15.50	19.60	20.80	7.60	16.80	19.70	11.80	16.70	4.50
1987	3.80	5.60	0.80	25.60	31.60	18.10	17.10	15.90	20.30	16.90	38.00	16.80
1988	2.00	11.30	5.00	3.90	16.90	11.70	31.50	24.10	6.80	25.00	10.00	3.70
1989	5.30	8.70	0.00	0.00	12.60	16.50	21.50	13.50	12.80	19.80	18.80	11.70
1990	7.00	1.20	6.00	5.60	16.70	10.80	10.60	15.50	12.40	24.90	10.80	7.60
1991	2.60	4.40	3.30	6.40	19.70	10.80	8.70	10.80	22.90	12.40	30.20	6.60
1992	3.80	2.70	2.80	17.20	34.20	16.00	13.90	24.50	13.10	10.70	16.60	12.60
1993	7.60	1.90	13.40	19.50	11.50	21.10	11.20	8.90	18.20	25.50	15.60	14.30
1994	3.30	3.50	8.60	3.30	23.70	26.00	15.40	22.80	11.80	13.00	31.80	8.90

1981	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1982	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1983	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1984	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1985	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1986	0.30	0.60	2.40	4.20	3.20	16.60	7.70	6.70	9.60	18.30	8.40	2.50	
1987	0.20	0.20	0.60	14.30	10.90	17.40	12.50	13.30	19.50	13.10	11.00	3.30	
1988	1.20	0.20	0.20	2.20	7.50	9.00	10.90	6.80	12.40	13.70	9.70	2.30	
1989	0.50	1.00	0.80	0.00	8.10	4.30	11.60	10.90	5.90	7.10	18.90	3.60	
1990	0.70	0.20	0.80	1.50	10.50	4.50	12.10	9.40	13.20	15.60	10.40	6.20	
1991	0.50	0.00	1.10	4.60	14.90	14.50	10.90	7.00	10.90	11.70	9.30	3.60	
1992	0.10	0.00	0.10	6.60	9.30	13.90	11.00	10.70	12.00	8.40	7.00	2.60	
1993	3.80	0.20	2.60	8.40	8.10	14.40	13.10	9.00	20.60	16.10	12.00	2.90	
1994	1.00	0.10	0.40	0.90	8.90	6.80	7.70	11.80	11.20	19.30	11.40	1.60	
1995	0.00	0.00	0.20	6.50	13.60	12.40	14.00	16.80	15.80	23.10	16.90	7.80	
1996	10.10	0.50	2.20	3.50	10.10	12.70	12.30	16.00	9.30	9.10	11.80	2.00	
1997	0.20	0.00	0.00	1.80	8.40	10.30	9.40	8.40	11.70	8.80	10.40	0.20	
1998	0.10	0.20	0.00	2.30	8.40	13.80	10.20	13.50	14.20	7.20	10.40	12.90	
1999	0.80	4.80	1.40	3.20	10.50	18.40	7.30	14.30	9.10	13.70	16.10	18.60	
2000	1.30	0.10	0.20	2.60	9.80	10.60	8.70	14.20	11.60	13.90	10.30	9.80	
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6.34	12.74	14.77	15.59	5.34
1926	0.42	1.25	0.18	0.16	5.91	8.17	17.29	13.84	8.85	10.50	15.31	7.72	
1927	3.90	1.87	1.50	5.80	14.73	11.54	18.36	13.61	11.68	16.21	19.51	11.75	
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1949	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1950	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1951	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1952	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1953	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1954	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1955	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1956	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1957	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1958	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1959	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	0.77	0.43	0.39	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	7.67	12.20	25.56	-1.00

1967	1.08	1.47	0.64	9.20	7.35	19.44	6.51	9.32	9.77	11.20	21.80	5.28
1968	0.09	4.50	1.89	0.81	13.28	10.90	7.83	8.48	7.96	11.13	8.22	3.24
1969	4.12	2.85	0.39	3.01	8.71	6.26	10.36	4.66	9.74	11.51	9.42	12.32
1970	6.74	1.58	2.98	3.90	12.44	11.55	11.36	10.51	9.79	11.19	27.09	19.39
1971	2.61	3.28	3.36	0.04	4.88	6.10	4.00	12.40	7.60	8.70	8.50	0.30
1972	3.60	0.30	2.30	10.00	7.20	7.60	3.60	5.40	12.80	11.70	9.40	6.20
1973	1.20	1.60	0.20	2.80	8.20	11.50	6.40	9.90	11.60	11.80	17.10	4.90
1974	1.20	0.60	1.60	1.50	14.10	6.70	8.30	9.20	8.20	16.00	23.20	4.10
1975	0.20	1.10	0.70	0.40	11.60	15.70	7.60	13.90	6.80	18.30	14.90	18.60
1976	1.80	1.50	0.10	4.30	7.40	4.70	3.60	6.00	14.00	13.20	5.40	4.80
1977	0.80	1.10	0.10	0.00	6.30	5.20	5.60	11.90	11.00	13.90	11.50	3.00
1978	3.20	0.90	4.60	11.70	8.80	12.40	11.50	7.20	14.30	8.90	9.30	1.30
1979	0.50	2.10	0.30	11.40	13.20	8.00	8.70	7.70	11.20	8.90	11.50	5.60
1980	7.70	3.00	0.10	1.80	17.90	11.10	11.10	9.10	6.60	8.60	11.70	7.50
1981	6.50	2.10	1.70	10.80	11.90	15.30	13.40	13.70	5.80	6.90	16.90	11.40
1982	6.90	1.60	1.30	2.70	7.20	8.40	5.50	6.40	9.40	16.90	4.60	0.70
1983	1.70	0.30	1.90	2.80	10.00	11.00	5.60	8.20	11.00	11.10	8.10	10.00
1984	3.60	1.50	1.00	3.00	10.60	6.50	6.50	9.80	13.10	12.50	13.20	2.30
1985	4.80	1.20	0.50	0.20	10.70	10.60	7.60	12.00	9.00	7.50	7.00	9.00
1986	1.60	0.10	0.80	9.80	7.00	8.50	5.60	6.50	8.90	14.50	7.40	2.40
1987	1.50	1.40	0.10	5.70	10.20	6.80	10.00	12.10	14.20	15.90	9.60	7.40
1988	0.30	1.20	0.00	1.50	9.50	11.40	6.50	19.90	13.10	11.70	15.30	3.90
1989	0.00	0.00	0.70	2.30	5.20	3.20	6.90	9.90	7.80	18.00	16.80	7.00
1990	1.80	0.20	1.60	4.40	11.80	8.50	9.80	7.70	15.20	18.00	12.70	10.70
1991	1.40	1.30	5.20	1.10	16.60	10.90	8.80	3.90	11.50	8.20	12.20	2.10
1992	1.50	0.70	0.40	7.60	14.00	12.20	7.70	10.30	8.90	9.10	13.80	6.90
1993	2.00	0.70	5.30	5.70	7.80	11.70	7.00	7.60	13.90	12.80	13.00	6.60
1994	2.40	0.50	2.70	3.00	12.50	8.90	4.90	8.80	11.00	7.20	15.60	2.50
1995	5.30	0.50	0.90	6.40	13.70	11.70	10.40	10.40	7.30	5.50	11.80	14.40
1996	15.10	3.70	3.60	1.40	13.10	8.80	8.40	7.30	12.60	13.10	13.00	11.60
1997	0.90	1.50	0.30	0.90	7.10	4.10	6.80	7.80	8.70	4.30	12.00	0.60
1998	0.70	0.20	1.80	8.20	11.00	11.80	10.80	5.20	6.90	10.80	9.10	13.50
1999	2.40	2.10	5.20	6.30	6.50	8.30	7.60	11.30	16.50	9.00	18.90	24.00
2000	4.50	1.40	0.40	4.40	7.30	17.80	6.20	6.30	5.10	14.90	6.90	18.10

OUTPUT FILE
RAINFALL
FILL-IN PROGRAM

FILLING MISSING DATA

RAIN	ALHAJUELA (ALA)
RAIN	AGUA CLARA (ACL)
RAIN	BARRO COLORADO (BCI)
RAIN	BALBOA HEIGHT (BHT)
RAIN	CANO (CNO)
RAIN	CANDELARIA (CDL)
RAIN	CIENTO (CNT)
RAIN	CHICO (CHI)
RAIN	LIMON BAY (LMB)
RAIN	EL CHORRO (CHR)
RAIN	EMPIRE HILLS (EMH)
RAIN	ESCANDALOSA (ESC)
RAIN	GAMBOA (GAM)
RAIN	GATUN (GAT)
RAIN	GUACHA (GUA)
RAIN	HODGES HILL (HHI)
RAIN	LAS CASCADAS (CAS)
RAIN	LAS RACIES (RAI)
RAIN	LOS CANONES (CAN)
RAIN	MONTE LIRIO (MLR)
RAIN	PEDRO MIGUEL (PMG)
RAIN	PELUCA (PEL)
RAIN	RIO PIEDRAS (RPD)
RAIN	SALAMANCA (SAL)
RAIN	SAN MIGUEL (SMG)
RAIN	SANTA ROSA (SRO)
RAIN	HUMEDAD (HUM)

DATA ECHO

0	SITE NO.	1	ALHAJUELA (ALA)	2.29	0.01	4.88	16.11	10.53	8.84	10.79	9.29	13.39	13.39
1911	0.14			2.29	0.01	4.88	16.11	10.53	8.84	10.79	9.29	13.39	0.39
1912	0.08			0.33	0.02	0.20	13.43	12.17	10.17	12.87	9.12	13.52	9.62
1913	0.96			0.22	0.08	0.72	12.63	11.51	6.99	10.92	8.82	6.41	16.56
1914	0.09			0.22	0.05	1.68	5.66	12.55	7.21	12.36	16.98	22.91	7.56
1915	0.86			2.53	0.06	8.94	8.20	8.09	15.71	10.29	9.60	16.61	11.93
1916	0.66			1.34	0.37	5.84	12.40	14.00	12.07	10.99	14.96	19.32	14.77
1917	0.11			0.04	0.16	1.09	17.17	8.70	12.90	13.31	9.92	13.72	19.83
1918	0.93			0.14	0.02	6.80	11.34	15.76	8.79	9.16	11.07	12.03	6.94
1919	0.75			0.04	0.07	9.06	6.11	6.87	13.46	8.11	9.35	15.46	9.79
1920	0.52			0.15	0.20	0.83	4.46	11.16	20.83	14.17	8.90	25.20	10.15
1921	0.18			1.79	0.27	0.96	10.76	9.57	17.53	14.74	11.41	21.53	9.24
1922	3.95			0.16	0.00	0.17	12.52	13.85	7.59	9.92	8.31	16.74	11.15
1923	0.68			0.17	0.18	0.12	12.89	14.99	5.69	12.11	14.61	27.71	6.13
1924	0.03			1.81	0.12	4.56	12.43	8.48	15.22	8.87	9.31	13.21	14.36
1925	2.55			0.02	0.20	4.84	6.49	8.38	12.74	8.54	8.95	12.20	13.36
1926	0.07			0.52	0.04	0.01	3.23	14.02	16.62	17.27	13.46	14.49	11.10
1927	0.66			0.46	0.12	5.15	13.19	20.51	14.41	11.06	8.66	7.19	13.12
1928	0.72			0.15	3.00	2.20	5.25	7.37	9.65	19.71	7.89	13.61	21.41
1929	0.21			0.04	0.72	2.19	8.58	12.55	13.98	16.03	11.69	18.63	10.69
1930	0.25			0.37	0.54	6.90	11.49	5.67	14.32	9.11	12.63	10.15	3.08
1931	0.24			0.13	2.35	2.19	11.08	13.72	12.81	9.06	17.52	8.03	29.23
1932	1.06			0.22	0.38	5.74	17.55	11.49	6.79	11.55	10.18	17.49	22.41
1933	1.01			0.00	2.47	0.23	12.11	10.75	10.34	12.68	11.02	7.54	14.59
1934	1.41			0.17	0.12	4.47	18.77	11.66	9.60	11.21	10.35	18.51	5.98
1935	0.84			0.46	0.12	1.61	14.35	13.30	22.52	14.56	13.94	14.84	33.32
1936	0.08			0.07	0.09	1.02	12.00	6.88	13.00	8.82	15.62	14.03	9.99
1937	1.52			0.23	0.13	0.90	10.98	10.39	9.48	14.43	10.87	13.51	17.53
1938	0.20			0.06	0.63	3.87	13.26	15.92	7.97	9.80	7.45	15.52	12.73
1939	0.02			0.01	0.06	0.11	3.29	11.16	7.05	11.93	11.84	14.82	18.47
1940	2.16			0.55	0.05	0.15	5.59	6.99	7.73	12.24	14.46	16.90	10.37
1941	0.55			3.01	0.37	4.07	9.67	9.04	13.87	7.92	11.32	14.63	7.81
1942	0.98			0.28	0.42	6.27	12.13	12.96	8.41	9.06	9.41	17.22	7.30
1943	3.81			0.96	0.27	5.12	14.55	17.11	8.95	6.47	8.16	11.12	9.95
1944	0.70			0.04	0.06	4.96	10.79	4.92	11.37	16.93	8.09	22.92	10.66
1945	0.20			0.02	0.04	1.05	12.44	5.95	13.28	11.79	14.08	9.44	10.54
1946	0.44			0.14	0.20	0.14	11.16	16.92	11.59	4.32	7.79	6.44	10.64
1947	0.01			0.25	0.02	2.96	6.04	11.62	11.26	11.91	10.46	12.36	9.01

1948	0.14	0.01	0.18	0.36	12.37	10.16	11.99	3.74	7.95	13.41	16.84	1.87
1949	0.16	0.12	0.03	1.88	8.74	18.80	8.35	10.09	5.96	15.53	14.08	4.45
1950	0.08	0.18	0.27	2.26	10.12	13.00	15.15	11.40	8.34	8.88	17.86	8.62
1951	0.17	2.54	0.05	5.53	17.15	8.46	10.83	12.72	8.35	9.43	13.63	2.96
1952	0.96	0.19	0.00	1.49	11.95	15.81	15.15	7.71	10.94	16.86	3.95	12.19
1953	3.11	0.88	0.14	3.33	15.75	6.48	16.44	5.03	7.14	11.28	12.21	3.65
1954	0.47	0.29	0.62	3.38	12.47	8.70	16.58	17.09	11.30	12.38	9.32	1.61
1955	5.11	0.30	0.46	0.09	6.88	9.12	13.84	13.72	9.17	8.72	18.92	5.59
1956	4.24	0.49	2.66	3.49	13.70	8.74	12.74	14.77	15.42	20.05	14.60	1.32
1957	0.03	0.08	0.03	0.02	7.19	10.64	11.98	10.30	9.24	16.02	12.40	0.99
1958	2.05	0.27	0.90	1.46	13.27	7.67	13.37	10.42	9.62	8.89	9.78	1.63
1959	0.57	0.00	0.02	0.20	4.95	9.36	5.20	10.65	6.44	6.39	5.05	8.97
1960	1.23	0.06	1.75	3.97	11.87	11.03	12.80	11.66	10.51	14.32	12.93	14.02
1961	0.11	0.02	1.04	5.80	7.40	15.41	8.23	13.80	14.79	13.74	12.74	6.36
1962	0.51	0.00	1.45	1.07	11.14	9.23	12.46	9.65	13.00	18.99	8.05	5.11
1963	5.19	1.21	0.12	5.56	5.21	12.94	9.75	18.13	19.06	10.22	14.64	0.80
1964	0.13	0.04	0.41	7.69	9.95	12.15	14.17	10.11	10.97	13.08	12.88	1.78
1965	0.69	0.02	0.01	0.03	10.85	9.09	7.88	10.30	11.19	11.39	19.73	6.32
1966	0.28	0.32	0.21	2.53	14.00	10.74	9.32	8.21	13.89	7.95	24.93	14.35
1967	0.75	0.20	0.05	2.53	5.44	14.20	17.46	12.93	20.08	12.91	13.10	3.22
1968	0.00	1.80	0.21	1.59	13.38	18.31	9.81	19.50	15.03	11.87	13.02	3.31
1969	1.16	0.17	1.58	7.39	4.93	8.30	11.55	10.83	16.07	10.64	12.05	4.38
1970	5.11	0.24	1.62	7.32	14.08	8.80	12.90	11.50	14.40	12.00	14.40	10.20
1971	4.90	0.10	2.60	0.70	12.60	10.50	13.50	16.10	12.80	17.80	10.60	0.30
1972	6.00	0.20	1.50	8.40	10.10	11.70	6.80	7.40	16.50	12.80	8.20	4.00
1973	0.40	0.00	0.00	1.10	8.80	9.70	9.70	5.10	14.50	10.10	14.70	4.10
1974	0.10	0.00	0.60	0.50	8.30	18.20	8.90	9.80	8.70	13.90	8.10	1.20
1975	0.50	0.10	0.90	0.20	7.90	9.80	18.30	11.80	10.30	18.70	9.70	7.70
1976	0.30	0.00	0.00	2.20	6.50	10.70	3.30	4.80	10.40	15.00	7.40	0.30
1977	0.20	0.40	0.00	0.10	14.20	9.40	5.40	18.60	12.60	15.40	6.90	5.70
1978	0.40	0.50	0.80	9.30	8.30	10.20	10.10	12.50	8.20	14.50	11.60	2.40
1979	0.00	0.20	0.00	11.30	9.10	8.90	12.00	13.00	4.30	13.00	14.00	2.00
1980	2.60	0.80	0.00	0.90	11.90	12.80	10.80	17.10	9.10	13.50	12.50	3.00
1981	0.90	0.10	2.30	11.20	13.50	13.30	13.70	9.70	4.00	9.50	13.70	6.70
1982	3.30	0.20	0.00	2.90	9.20	9.10	9.60	3.10	11.20	14.40	6.30	0.10
1983	0.30	0.00	0.00	3.10	10.90	7.80	7.30	8.00	17.40	20.10	15.80	4.20
1984	0.50	0.40	0.90	2.20	11.30	11.90	6.70	15.70	13.10	15.50	17.20	0.40
1985	0.70	0.50	0.60	0.90	14.40	13.30	9.10	8.60	21.10	9.50	14.60	8.20
1986	0.60	0.30	3.10	4.90	2.60	14.20	5.70	7.30	7.70	20.40	8.50	1.00
1987	0.10	0.20	0.40	12.30	8.50	14.90	12.20	10.50	16.60	15.30	8.00	4.00
1988	0.00	0.10	0.10	4.20	5.70	11.80	18.30	11.10	13.10	15.30	13.00	3.30
1989	0.00	0.50	0.20	0.20	3.40	7.70	6.60	8.60	8.30	15.60	15.20	4.80
1990	0.50	0.10	0.10	0.10	8.40	4.90	10.40	13.10	8.90	25.80	10.20	9.20
1991	0.80	0.20	1.10	4.60	12.30	16.90	17.00	10.60	11.20	12.70	11.30	0.90
1992	0.20	0.00	1.10	4.70	9.50	12.20	10.70	13.50	18.40	9.80	8.20	2.60
1993	3.00	0.20	2.00	6.20	8.80	13.10	8.40	8.30	17.60	14.90	16.30	2.50
1994	0.90	0.00	1.00	1.40	8.80	12.80	7.70	10.10	10.10	18.10	12.40	1.20
1995	0.20	0.00	0.50	3.60	9.80	9.60	10.70	13.80	12.60	12.10	15.70	6.90
1996	13.60	1.20	1.90	3.70	10.30	8.10	6.80	11.30	9.00	11.00	14.10	3.30
1997	0.00	0.00	0.20	3.60	14.10	13.80	7.30	7.00	10.80	8.80	8.30	0.20
1998	0.00	0.10	0.00	2.00	9.00	13.50	13.80	13.10	13.40	8.00	14.50	10.00
1999	2.10	5.70	0.10	5.20	7.20	16.50	8.50	16.20	10.00	12.00	17.90	23.10
2000	1.10	0.00	0.90	2.20	9.90	12.20	11.00	13.00	8.00	12.30	7.90	12.70

DATA ECHO

0 SITE NO.	2	AGUA CLARA (ACL)										
1911	0.71	2.40	1.48	4.66	22.96	14.79	8.01	9.46	7.56	16.95	17.20	1.45
1912	0.85	2.10	0.36	0.32	13.47	16.25	13.89	10.77	8.27	17.59	19.45	7.97
1913	5.53	3.70	0.20	3.82	14.74	10.45	9.96	12.31	8.07	15.23	17.56	10.71
1914	0.67	1.87	1.01	3.19	13.03	13.32	5.90	16.89	12.70	16.55	11.80	4.96
1915	1.90	13.17	0.95	17.25	8.00	11.72	19.06	13.15	13.65	18.65	19.15	11.10
1916	1.05	2.58	3.45	4.50	11.65	12.68	8.20	6.85	9.84	17.08	19.82	5.41
1917	1.62	0.67	0.66	9.20	13.10	12.74	16.10	17.05	15.02	10.75	25.92	12.30
1918	4.11	0.70	0.60	6.37	15.80	9.50	8.15	15.65	8.85	25.45	10.12	1.65
1919	1.40	0.45	0.60	13.40	9.55	13.20	9.00	10.85	9.40	17.24	7.72	8.20
1920	1.11	0.81	1.02	0.39	5.63	6.53	16.06	16.90	6.77	17.15	9.92	3.80
1921	2.01	2.81	0.85	5.88	14.85	14.05	-1.00	-1.00	-1.00	-1.00	-1.00	8.71
1922	10.54	1.63	1.46	2.81	11.33	13.28	5.60	7.24	11.98	17.08	16.92	8.24
1923	3.05	0.55	0.98	1.82	12.03	12.79	13.85	14.65	14.40	44.35	18.40	7.14
1924	1.19	4.23	0.87	14.14	13.00	14.07	16.15	12.89	11.88	15.50	30.68	7.17
1925	3.67	1.10	0.83	6.91	9.41	12.01	17.19	9.06	16.62	17.00	20.97	5.45
1926	1.10	2.12	0.96	0.99	11.47	21.94	21.69	20.37	8.61	18.81	28.04	10.54
1927	6.25	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1942	3.61	2.34	6.51	7.30	12.56	15.43	10.92	13.03	16.45	31.49	19.75	16.36	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1943	3.26	3.98	0.97	4.70	24.24	19.23	8.93	12.26	14.10	21.37	23.84	28.75	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1944	4.07	0.78	0.58	11.47	28.96	8.11	9.02	25.35	6.22	30.00	19.90	22.20	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1945	1.32	0.11	0.55	1.98	16.65	10.35	20.87	16.95	11.00	15.62	30.35	30.23	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1946	0.62	0.98	3.16	1.15	7.41	10.26	16.96	16.08	13.42	16.09	24.56	18.42	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1947	0.26	1.93	0.99	4.41	8.45	10.43	12.20	13.60	-1.00	-1.00	-1.00	-1.00	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1948	2.92	0.21	0.88	3.27	18.34	10.16	24.47	8.33	14.93	14.81	24.16	2.41	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1949	0.56	0.70	0.87	1.95	16.10	16.86	11.19	17.49	11.28	17.08	38.85	14.53	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1950	0.45	2.21	1.30	4.67	13.36	20.39	14.09	16.00	14.33	14.91	37.91	32.45	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1951	2.69	7.80	0.74	8.20	17.62	9.63	10.89	15.48	12.37	16.92	22.05	13.92	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1952	3.86	0.41	0.36	6.32	13.25	11.76	16.88	13.57	10.38	31.10	12.49	18.49	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1953	9.22	2.22	2.68	2.85	11.57	12.88	12.56	11.92	9.23	25.89	23.05	7.52	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1954	0.92	1.36	1.30	9.08	18.20	15.47	24.24	16.85	16.15	12.24	18.42	11.44	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1955	14.75	1.23	0.72	0.30	10.06	11.47	8.96	13.62	9.72	18.06	25.25	12.03	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1956	9.80	1.31	9.80	4.52	24.47	8.68	12.63	11.21	14.54	23.58	18.27	6.13	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1957	0.31	0.36	0.10	0.22	9.02	8.63	6.24	9.92	10.70	18.23	28.02	6.36	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1958	10.01	2.63	4.67	3.15	11.95	13.55	13.73	14.30	10.18	12.93	12.15	6.88	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1959	0.69	0.19	0.50	4.27	7.99	11.54	9.44	9.21	18.32	14.01	16.17	38.52	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1960	2.71	0.72	4.43	14.75	13.16	12.32	8.87	9.18	8.10	18.82	18.13	28.26	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1961	1.12	0.21	0.50	3.56	8.08	15.45	9.91	14.16	10.58	17.86	18.75	5.47	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1962	2.71	0.57	1.41	3.76	37.94	13.70	17.38	13.69	10.72	15.05	24.57	-1.00	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1963	0.00	4.72	0.51	2.23	18.66	15.77	12.06	16.50	-1.00	-1.00	-1.00	-1.00	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1964	0.87	0.21	2.04	7.63	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1965	3.01	0.95	-1.00	13.69	13.68	3.17	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1966	4.06	0.98	1.03	7.12	17.85	14.24	13.06	10.78	14.56	15.49	29.44	25.47	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1967	1.27	0.52	1.12	6.12	10.93	17.79	14.50	12.06	12.29	20.28	27.58	6.61	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1968	0.11	4.77	5.12	0.65	10.21	12.11	13.59	14.20	12.51	17.30	23.67	2.85	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1969	2.32	1.68	3.44	6.29	20.85	7.03	16.21	15.37	18.25	20.48	18.42	21.94	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1970	15.40	5.41	3.07	12.61	17.22	8.66	10.21	18.55	8.64	18.80	36.70	25.00	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1971	6.40	1.70	3.80	0.60	14.30	14.20	16.30	-1.00	-1.00	-1.00	18.20	11.90	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1972	11.80	4.60	2.20	9.50	14.20	14.90	4.60	10.70	11.90	21.10	9.00	7.80	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1973	3.40	1.20	0.70	0.80	11.40	14.30	15.80	13.30	15.30	13.20	25.70	7.10	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1974	1.70	1.20	2.70	1.30	7.10	16.80	11.50	13.80	14.40	28.90	27.80	7.30	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1975	2.60	4.80	7.50	0.90	11.00	10.60	21.00	17.70	11.40	27.60	20.20	12.30	0.80	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
1976	2.10	1.50	0.40	7.30	11.30	10.70	3.20	12.90	18.20	20.20	12.30	0.80	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
1977	4.10	0.70	1.30	3.10	12.50	7.10	11.50	24.70	17.20	15.00	9.80	12.30	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
1978	2.40	4.80	3.20	18.10	9.70	19.30	16.20	21.70	14.50	13.30	18.70	5.10	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
1979	0.70	2.30	1.20	13.60	18.40	17.00	9.20	15.70	10.70	21.60	20.80	10.80	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
1980	9.90	6.10	0.90	3.50	11.90	8.50	10.00	11.80	6.50	10.30	12.00	9.60	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
1981	18.20	3.80	3.70	19.20	13.00	12.20	9.70	12.30	9.20	16.40	39.20	33.40	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
1982	10.40	0.50	0.30	8.20	10.90	13.50	13.00	7.60	11.60	24.80	10.30	1.60	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
1983	3.30	0.50	0.50	8.30	10.50	10																		

DATA ECHO

1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	3.95	5.76	13.58	13.62	13.36	13.80	22.23	13.75	4.32		
1926	1.06	2.93	0.52	0.27	8.50	17.58	15.02	12.15	12.07	13.90	22.00	12.22		
1927	3.03	1.44	1.27	7.61	19.02	14.55	13.46	12.41	10.73	9.74	16.34	6.76		
1928	1.75	0.47	2.23	1.66	9.39	9.41	9.61	16.67	8.11	11.93	18.71	11.58		
1929	0.48	0.07	2.63	1.89	13.79	9.82	12.54	15.68	6.94	9.93	12.19	1.88		
1930	1.91	0.63	0.26	3.29	10.02	7.39	7.26	5.93	11.55	6.06	11.77	10.50		
1931	1.20	0.97	5.54	3.81	16.96	15.01	18.25	7.73	7.65	12.67	30.84	2.67		
1932	1.75	0.30	1.19	4.42	7.67	11.81	12.73	10.67	6.90	14.04	31.08	10.96		
1933	2.49	0.05	1.22	0.10	7.00	9.42	9.10	10.23	9.08	6.39	32.72	13.93		
1934	1.52	0.75	1.83	5.76	12.04	9.02	10.59	12.22	19.96	13.70	19.68	15.35		
1935	1.66	5.91	0.51	3.69	10.11	11.90	28.58	8.24	9.09	8.64	41.59	13.50		
1936	0.76	0.21	1.64	2.26	11.61	5.43	10.61	13.55	12.87	19.75	11.79	3.40		
1937	2.46	0.20	0.19	1.08	12.84	10.31	8.32	19.36	9.91	12.67	18.64	28.15		
1938	2.24	1.15	1.43	3.33	16.71	19.31	10.42	14.01	6.07	13.75	9.60	19.07		
1939	0.46	0.08	0.38	0.68	3.09	13.40	9.07	9.45	15.09	15.67	36.39	11.71		
1940	4.60	2.55	1.51	0.33	9.12	12.43	5.52	11.66	10.77	16.26	9.51	2.25		
1941	2.34	2.96	0.94	0.50	8.02	8.60	11.84	12.04	7.29	17.37	15.52	4.40		
1942	2.80	1.58	2.72	4.49	11.01	6.35	8.91	11.41	14.02	18.72	8.18	20.91		
1943	1.93	1.74	2.21	2.87	14.66	14.25	10.59	15.35	10.39	10.17	21.54	14.59		
1944	2.28	0.75	0.45	6.46	15.88	10.28	7.43	21.44	7.31	17.13	7.21	15.34		
1945	2.89	0.67	0.27	1.59	13.55	10.17	13.87	12.32	10.07	10.02	20.60	24.40		
1946	0.45	0.32	1.71	1.41	8.05	7.94	12.38	10.50	10.67	9.00	14.98	9.77		
1947	0.40	2.14	0.54	3.09	4.82	12.06	7.53	11.76	9.53	13.17	7.25	5.63		
1948	1.84	0.19	0.17	2.92	10.80	6.32	11.45	10.46	6.72	10.74	20.33	1.22		
1949	0.70	0.07	0.11	0.90	11.97	15.57	13.38	9.99	7.11	14.45	32.76	7.85		
1950	0.20	1.87	0.48	2.73	7.86	14.66	12.37	11.48	7.20	14.02	24.19	17.45		
1951	2.21	3.76	0.30	8.53	12.19	10.94	5.37	11.29	9.62	19.43	16.15	12.93		
1952	2.40	0.39	0.11	5.46	12.39	11.76	6.01	9.11	11.13	16.96	9.50	12.46		
1953	4.30	0.69	1.25	6.64	9.21	3.81	15.93	15.60	5.70	18.27	19.28	4.34		
1954	1.24	1.29	0.21	3.10	11.09	12.06	15.05	12.92	11.19	13.14	17.12	7.25		
1955	9.05	0.46	0.90	0.37	10.58	13.54	11.49	11.36	9.27	16.33	18.35	12.72		
1956	5.57	2.11	2.24	2.61	16.55	6.85	19.55	9.48	11.27	18.64	12.37	6.81		
1957	0.56	0.53	0.02	0.05	6.37	5.97	10.86	21.90	12.42	17.22	17.96	4.09		
1958	4.26	7.34	2.98	4.73	12.22	8.89	9.54	12.35	10.64	15.42	7.16	4.67		
1959	0.32	0.15	0.11	1.33	8.89	8.29	8.86	8.62	14.69	9.03	10.18	24.41		
1960	2.96	0.95	4.47	18.26	15.52	11.53	11.46	7.02	9.49	19.50	16.53	22.35		
1961	1.23	0.24	0.71	5.45	7.86	10.70	7.42	19.73	13.33	17.22	10.84	5.96		
1962	1.86	0.67	0.08	1.84	12.84	10.13	13.26	13.21	13.57	8.43	13.82	10.81		
1963	7.94	3.14	1.65	6.38	9.08	5.96	12.83	18.87	8.06	10.19	21.60	3.24		
1964	0.22	0.25	0.21	4.56	15.82	19.25	17.44	8.56	11.41	16.87	16.04	2.62		
1965	2.78	0.26	0.21	1.08	9.88	8.13	7.75	9.90	11.91	10.85	23.00	7.05		
1966	3.23	0.15	0.44	3.20	6.88	13.65	9.27	14.17	9.93	12.81	23.72	14.02		
1967	0.49	0.51	0.52	4.38	6.28	13.54	8.74	10.94	6.98	11.87	15.15	6.48		
1968	0.09	1.79	3.59	0.61	11.54	10.21	6.54	15.87	7.08	18.66	10.32	1.82		
1969	1.74	0.52	0.43	4.99	9.99	6.01	12.30	6.02	8.74	12.44	13.02	10.22		
1970	11.82	2.83	1.43	4.21	17.98	8.52	13.32	14.09	5.15	10.91	19.97	16.81		
1971	4.17	0.68	2.26	0.11	22.55	6.32	9.73	9.40	10.10	6.90	11.80	0.90		
1972	6.20	3.30	0.90	5.50	8.70	11.50	5.00	9.70	13.80	15.10	6.20	7.30		
1973	2.10	0.80	0.20	1.00	11.80	13.90	9.50	6.70	12.00	10.50	22.90	3.20		
1974	0.20	0.60	1.50	0.50	4.40	11.40	13.00	11.00	9.80	17.80	15.60	4.70		
1975	0.10	0.70	1.60	2.30	12.40	9.00	8.90	13.10	12.40	16.70	14.00	17.50		
1976	0.90	0.00	0.20	2.60	7.50	9.80	3.50	8.50	14.50	9.90	8.50	1.30		
1977	1.00	2.30	0.90	0.60	9.60	8.60	7.10	24.80	11.60	16.30	16.90	2.50		
1978	0.30	0.70	1.90	7.70	7.20	8.30	11.40	11.20	5.30	12.30	11.60	1.00		
1979	0.20	1.20	0.30	12.20	9.80	15.10	12.80	13.00	10.70	10.10	10.70	8.80		
1980	4.40	1.90	0.20	0.80	10.20	8.20	7.60	10.10	6.60	11.50	13.80	7.10		
1981	15.70	0.80	2.40	13.40	16.20	18.50	12.40	16.00	8.50	13.40	25.50	19.90		
1982	4.50	0.70	0.20	3.70	6.60	7.00	6.70	11.60	11.30	11.40	4.00	1.20		
1983	0.90	0.00	0.10	3.70	9.70	11.20	12.00	9.00	13.60	10.60	16.60	10.60		
1984	4.10	2.70	0.90	2.30	9.30	10.70	9.30	13.50	11.00	21.20	17.30	0.80		
1985	1.00	1.00	0.90	0.20	11.30	8.00	9.90	9.30	6.40	14.10	7.70	12.20		
1986	2.40	0.30	1.80	3.80	4.30	8.90	3.40	11.70	10.10	17.80	7.30	5.20		
1987	0.20	2.10	0.00	9.10	15.40	6.40	12.20	17.40	13.40	13.30	11.30	7.20		
1988	0.40	1.10	0.30	0.90	9.70	7.70	5.40	5.40	11.70	14.70	9.90	9.10		
1989	0.20	2.10	0.90	0.30	2.10	5.20	9.00	9.30	4.30	15.00	13.00	7.40		
1990	0.60	0.30	2.00	6.20	18.00	5.10	12.90	8.80	14.80	16.60	10.30	6.30		
1991	0.60	1.00	6.40	0.70	12.40	8.00	10.80	9.00	12.00	10.00	16.00	2.70		

1992	1.30	0.20	0.00	6.00	18.40	14.10	9.60	12.60	18.00	16.80	14.30	6.60
1993	4.30	1.00	2.20	5.30	6.50	8.70	12.20	8.90	20.10	16.30	18.70	9.60
1994	3.10	0.00	2.40	1.70	13.20	13.60	16.40	15.90	11.60	12.90	18.60	1.70
1995	6.90	1.30	0.40	5.70	15.90	17.50	12.00	8.70	8.80	12.70	11.70	11.80
1996	15.00	4.20	3.40	1.00	17.60	18.90	9.10	11.80	12.10	14.40	20.30	4.40
1997	0.80	1.70	0.10	0.80	12.90	11.30	6.70	8.10	7.20	9.10	11.00	0.10
1998	0.60	1.20	1.60	8.50	9.50	13.20	14.30	14.10	9.80	14.40	4.50	16.00
1999	1.30	1.60	4.60	8.80	11.30	22.90	13.90	23.20	13.00	10.70	21.40	26.20
2000	6.10	0.40	0.10	6.70	7.40	10.70	8.40	12.30	6.90	23.40	10.40	17.80

DATA ECHO

0	SITE NO.	4	BALBOA HEIGHT (BHT)	6.34	11.04	3.40	5.78	7.21	6.03	10.90	7.57	1.99
1911	0.83	2.75	0.26	6.34	11.04	3.40	5.78	7.21	6.03	10.90	7.57	3.27
1912	0.00	0.08	0.01	2.68	10.71	5.80	10.25	6.33	8.38	17.89	6.38	4.84
1913	0.63	0.22	0.43	0.03	8.27	8.15	4.85	8.20	11.43	8.30	10.63	8.28
1914	0.32	0.02	0.00	4.80	6.98	7.28	4.32	6.09	9.60	6.44	10.35	3.60
1915	2.12	2.96	0.00	5.37	6.42	2.85	6.93	15.24	3.69	10.49	7.05	5.86
1916	1.41	1.48	0.89	2.84	12.59	4.39	10.13	10.53	8.02	10.17	8.77	4.09
1917	0.13	0.19	0.02	2.24	5.75	7.35	10.17	7.42	11.53	6.14	13.77	0.55
1918	1.78	0.00	1.25	4.52	6.75	5.20	5.13	3.84	7.03	9.16	9.61	1.81
1919	0.28	0.00	0.00	6.43	5.21	8.93	4.75	5.82	10.84	12.11	4.97	3.82
1920	0.00	0.00	0.09	3.02	3.31	4.83	6.18	12.22	9.14	6.48	19.22	1.94
1921	0.88	2.37	2.98	1.19	8.60	7.86	8.07	9.51	3.27	13.86	7.11	5.19
1922	1.73	2.03	1.02	0.16	9.88	7.92	5.08	1.46	8.18	9.03	8.44	3.82
1923	0.80	0.00	0.00	0.83	5.84	5.59	3.15	5.37	4.60	15.02	8.81	3.94
1924	0.00	0.05	0.07	3.72	5.51	8.41	5.97	14.46	12.55	10.38	12.36	8.31
1925	1.44	0.07	0.07	2.63	6.73	18.34	3.83	10.83	9.01	7.37	3.52	1.88
1926	0.01	0.07	0.00	0.08	4.16	12.33	9.93	10.45	8.41	9.93	9.63	8.38
1927	0.18	1.99	0.01	4.67	9.06	10.83	8.22	7.76	6.53	8.36	5.82	2.95
1928	0.02	0.32	4.07	3.38	4.20	8.78	7.91	6.87	10.44	10.70	20.51	6.95
1929	0.17	0.02	2.19	0.43	4.04	9.34	5.22	11.96	9.26	7.89	12.62	4.17
1930	0.05	0.85	0.01	6.78	9.70	2.50	4.04	4.34	7.61	8.24	5.12	2.44
1931	0.00	0.00	0.70	1.45	13.15	7.81	10.48	4.28	11.09	9.26	12.60	4.96
1932	0.38	0.46	0.13	7.56	9.39	9.23	6.29	7.61	7.23	11.60	10.18	2.66
1933	1.63	0.30	0.46	3.46	7.96	14.36	6.01	6.55	5.18	5.88	13.28	7.35
1934	4.04	0.07	0.20	5.09	4.96	10.85	5.39	4.52	16.38	11.44	12.89	2.71
1935	0.88	0.36	0.00	2.40	8.10	7.54	13.16	11.41	4.70	10.73	19.70	4.31
1936	0.83	0.00	0.36	1.64	6.36	9.12	5.94	6.14	8.62	9.48	8.29	1.84
1937	5.07	0.56	2.44	1.32	10.98	7.44	6.57	3.80	10.89	9.13	10.18	16.81
1938	2.20	0.01	0.25	1.93	12.03	9.49	7.52	11.82	8.23	12.72	11.23	7.91
1939	0.43	0.00	0.00	0.94	4.61	12.65	5.06	5.12	8.12	12.93	6.55	6.23
1940	3.14	0.11	0.75	1.05	7.26	6.03	6.23	4.59	13.99	6.43	5.35	0.20
1941	0.87	0.53	0.17	4.74	9.03	5.96	6.05	11.65	8.01	12.74	7.53	5.40
1942	0.30	0.44	1.92	2.25	12.16	5.59	6.22	5.40	8.11	7.99	8.41	11.23
1943	1.20	0.89	1.50	3.60	6.68	10.75	6.49	6.50	7.88	10.27	7.57	8.53
1944	0.79	0.00	0.00	3.59	8.35	15.37	4.85	14.47	6.08	11.29	7.76	4.10
1945	0.75	0.11	0.00	1.84	4.22	5.17	5.89	6.37	5.14	17.36	9.49	7.51
1946	1.23	0.03	1.09	0.91	2.39	4.18	7.44	6.56	2.62	14.05	8.08	5.17
1947	1.09	0.53	0.02	1.79	4.99	6.06	7.25	5.83	5.39	9.68	10.25	5.58
1948	1.26	0.02	0.00	0.11	5.17	6.32	6.39	4.12	6.56	13.63	12.76	2.33
1949	0.15	0.00	0.26	2.10	8.74	7.71	6.70	8.09	6.06	11.68	10.06	6.93
1950	0.26	0.16	1.89	1.74	9.64	11.88	12.14	8.34	3.79	7.08	10.83	4.60
1951	1.43	1.59	0.34	4.89	8.22	3.97	4.97	2.90	9.79	13.10	8.59	4.07
1952	0.41	0.11	0.11	0.58	15.06	6.49	8.49	5.06	8.60	14.81	10.85	13.46
1953	2.66	2.49	1.53	0.07	8.80	7.48	5.30	6.73	7.07	14.07	6.28	5.23
1954	0.61	0.86	0.20	3.33	8.65	13.26	8.25	8.49	8.68	14.18	13.62	3.80
1955	4.32	2.43	0.58	0.41	6.31	8.34	10.06	11.30	8.28	6.46	15.75	9.96
1956	2.63	1.22	0.40	2.23	10.81	10.10	13.08	11.51	5.00	13.44	10.17	2.62
1957	0.44	0.00	0.00	1.85	9.18	5.71	10.73	10.06	5.66	9.70	8.68	0.61
1958	0.79	0.14	0.00	3.01	10.47	5.50	6.31	9.65	13.74	9.96	12.65	2.75
1959	1.05	0.00	0.00	1.46	9.23	4.57	5.59	7.62	5.79	18.50	8.00	8.46
1960	4.47	0.88	0.56	6.83	7.28	5.36	5.61	11.74	6.03	5.74	11.14	8.46
1961	0.66	0.75	0.20	2.09	5.02	10.72	8.40	5.92	7.19	10.58	8.49	4.74
1962	0.60	0.05	0.17	0.43	5.54	10.20	5.69	6.43	5.39	13.45	13.39	8.21
1963	1.94	3.82	0.12	6.04	5.00	7.35	8.38	6.86	5.17	7.65	10.49	0.80
1964	0.00	0.46	0.00	6.54	6.72	6.07	5.38	9.62	6.91	10.55	12.01	3.12
1965	1.35	0.08	0.00	0.26	13.14	4.91	3.64	7.74	9.10	12.09	17.16	4.07
1966	2.42	0.00	0.10	3.19	13.40	13.90	11.39	3.54	10.97	23.21	9.18	5.07
1967	0.19	0.00	1.72	5.96	5.22	6.53	8.11	12.14	12.99	7.45	11.87	8.67
1968	0.00	1.73	0.78	0.57	6.84	7.74	10.42	8.04	4.67	9.76	7.43	2.92
1969	2.96	1.70	0.37	6.76	7.64	6.06	4.81	11.66	6.90	7.03	12.25	4.88
1970	3.69	0.07	0.68	3.19	12.85	5.35	5.91	6.92	8.38	8.14	7.96	7.68
1971	8.89	0.33	0.66	3.10	5.51	6.84	5.26	9.54	9.37	11.64	10.49	2.33
1972	10.37	1.56	0.47	8.52	6.87	16.97	2.67	6.35	11.20	11.35	6.53	3.23
1973	0.10	0.00	0.04	1.35	9.19	13.68	9.38	4.10	8.53	14.47	14.71	7.17
1974	1.29	1.86	0.15	0.36	7.78	6.45	9.27	6.42	5.38	11.72	8.31	1.25
1975	0.98	0.26	0.04	2.54	5.03	6.18	9.20	12.90	3.40	24.30	26.00	10.80

1976	1.00	0.00	0.20	1.00	6.80	7.20	5.30	4.40	5.30	12.70	5.00	2.60
1977	0.00	0.10	0.00	0.60	6.00	9.80	5.00	6.50	8.20	5.30	7.90	2.40
1978	0.30	0.10	2.00	6.40	7.90	11.40	4.30	7.20	9.30	11.70	11.90	7.40
1979	0.00	0.00	0.70	4.90	4.50	3.30	2.80	10.30	5.20	9.60	6.00	6.40
1980	1.30	0.50	0.00	0.80	8.10	3.20	4.60	6.80	8.40	6.50	7.50	3.00
1981	0.20	0.50	0.90	14.70	18.20	9.50	10.50	9.10	9.90	7.80	8.70	9.40
1982	3.90	0.00	0.00	4.60	5.00	4.50	8.50	6.50	11.70	10.20	6.40	1.40
1983	0.00	0.00	0.00	1.60	11.40	8.60	6.40	11.70	7.30	14.20	7.90	4.10
1984	2.40	4.20	0.20	0.70	4.50	5.70	6.60	9.50	8.40	13.30	5.80	0.00
1985	1.20	0.00	0.40	0.00	5.90	10.90	4.90	4.20	11.80	10.60	7.10	6.40
1986	1.90	0.10	0.20	4.70	7.20	6.40	5.30	5.40	9.80	13.70	8.80	4.10
1987	0.00	0.70	0.20	5.70	9.70	8.30	10.00	6.10	6.20	14.00	9.40	3.00
1988	0.00	0.10	0.20	0.40	11.00	11.70	8.70	13.80	9.60	12.30	9.60	4.70
1989	2.80	0.60	0.40	0.00	4.30	4.10	6.20	14.00	4.50	9.60	13.70	4.20
1990	1.90	0.70	0.00	2.70	11.20	10.80	11.30	7.20	5.20	9.20	5.90	4.20
1991	1.10	0.00	1.00	4.60	13.10	8.80	10.80	4.90	13.10	8.70	8.90	1.50
1992	0.00	0.20	0.00	0.30	9.20	8.20	9.00	10.30	10.40	12.50	9.90	5.70
1993	2.00	0.00	3.30	2.90	14.90	6.20	14.80	8.60	9.00	5.70	8.90	4.80
1994	0.10	1.10	2.60	2.60	11.90	8.60	4.80	8.20	4.90	11.60	14.60	3.00
1995	0.00	0.20	2.40	2.60	13.30	16.40	10.30	10.60	13.80	13.00	4.80	8.10
1996	4.80	3.00	2.70	3.50	12.40	9.40	7.50	6.10	5.50	10.10	12.30	5.00
1997	4.90	0.60	0.00	0.10	7.70	8.00	8.10	3.90	14.60	13.70	13.60	0.00
1998	0.00	0.60	0.00	2.70	11.00	10.10	8.90	7.30	9.50	8.30	6.10	6.90
1999	1.50	0.60	2.90	2.30	11.30	9.60	11.20	5.40	7.60	6.10	12.10	9.40
2000	1.70	1.40	0.50	2.60	7.80	11.00	8.00	6.50	9.10	13.10	7.60	5.90

DATA ECHO

0	SITE NO.	5	CANO (CNO)	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	1.59	1.03	0.74	0.86	5.31	6.75	8.26	13.32	11.35	16.89	14.86	10.63
1913	1.59	1.15	0.20	1.27	8.15	8.27	15.15	16.41	16.26	14.18	21.41	12.85
1914	2.98	0.68	0.52	0.31	14.69	15.15	4.02	5.29	13.92	13.54	13.92	10.39
1915	2.75	3.68	1.26	11.74	9.62	11.79	11.22	7.61	8.41	13.92	17.20	5.65
1916	0.36	4.01	2.01	4.68	13.13	7.54	10.14	15.78	11.03	14.68	9.80	3.89
1917	0.19	0.19	0.17	2.16	10.08	11.11	15.04	10.65	14.60	13.22	18.51	5.20
1918	3.04	0.33	0.17	5.63	12.10	7.65	4.39	6.99	12.24	15.57	7.76	1.68
1919	2.12	0.38	0.34	11.72	8.41	9.71	7.80	7.93	8.45	12.45	11.50	4.24
1920	0.36	0.32	0.13	0.55	7.68	9.82	14.81	10.87	9.49	19.95	9.76	1.88
1921	2.41	2.81	0.35	2.70	9.18	9.23	8.25	13.78	13.40	19.30	9.75	8.50
1922	6.16	0.41	0.21	0.53	13.25	8.10	3.85	13.35	8.95	15.65	3.53	5.73
1923	3.74	0.13	0.28	0.47	8.26	9.67	4.28	7.38	7.64	24.00	16.38	2.60
1924	0.12	2.86	0.44	5.10	10.25	12.16	13.46	9.91	9.19	11.44	15.19	4.27
1925	1.10	0.59	0.84	2.24	9.63	6.45	12.75	11.78	12.07	18.32	12.12	3.03
1926	0.03	0.75	0.07	0.56	6.11	14.20	10.26	9.61	7.78	13.77	16.95	12.22
1927	1.58	1.45	1.82	7.42	15.05	11.96	10.24	3.15	12.01	9.23	13.89	5.18
1928	0.85	0.50	1.20	2.51	12.23	11.36	7.17	18.82	8.11	12.60	15.07	7.81
1929	0.48	0.00	2.48	2.20	16.31	7.68	10.78	13.18	10.99	10.78	11.65	2.86
1930	1.37	0.97	0.05	5.52	7.58	4.98	7.50	9.64	6.08	7.15	8.73	6.81
1931	0.31	0.50	3.05	2.53	9.35	10.19	16.83	6.68	12.26	13.73	24.69	2.93
1932	0.90	0.42	0.93	7.85	8.10	9.80	13.40	12.18	7.41	12.67	32.62	7.02
1933	2.16	0.08	1.67	1.62	7.22	7.88	8.50	5.53	6.35	10.27	21.19	8.45
1934	3.49	0.29	0.46	3.06	12.08	10.10	5.78	6.33	14.23	14.60	16.15	14.20
1935	1.75	2.81	0.07	2.42	8.16	6.99	16.02	9.55	8.28	8.09	37.40	16.55
1936	0.54	0.08	1.83	1.25	19.89	5.71	13.28	8.15	10.68	18.73	8.63	1.35
1937	2.92	0.23	0.00	1.92	13.63	9.77	10.71	7.49	10.32	11.60	13.13	24.13
1938	0.68	0.89	0.47	2.83	18.34	22.47	9.00	13.08	10.45	13.92	19.55	16.85
1939	0.00	0.06	0.18	1.27	5.10	5.93	5.08	6.14	9.70	10.97	26.12	7.95
1940	4.18	1.67	1.05	0.38	10.60	8.43	8.85	7.05	7.34	11.39	7.38	1.55
1941	1.73	3.13	0.57	1.58	6.60	7.71	10.92	11.92	10.44	14.07	11.60	3.37
1942	1.40	0.81	1.79	2.01	11.40	7.70	7.27	10.30	6.59	21.20	3.90	17.44
1943	1.53	2.00	2.06	4.98	9.00	5.58	6.25	11.04	8.18	5.64	12.66	13.03
1944	2.92	0.14	0.20	2.72	9.71	9.26	8.16	9.74	9.44	15.51	9.23	12.67
1945	1.50	0.37	0.20	1.95	10.63	8.49	8.95	12.32	8.57	9.91	15.73	17.10
1946	1.10	0.14	0.55	2.25	9.40	5.54	8.77	5.69	11.76	11.79	10.90	5.27
1947	0.35	1.21	0.53	1.47	5.32	12.74	7.35	6.99	10.30	18.65	11.88	7.71
1948	1.10	0.03	0.27	0.82	6.82	6.16	10.94	9.90	9.39	11.47	14.98	1.43
1949	0.23	0.07	0.36	0.37	11.39	16.36	9.97	13.47	8.50	12.51	18.53	5.82
1950	0.14	1.49	0.46	4.30	6.92	15.23	7.58	11.43	5.39	10.60	17.43	11.09
1951	1.66	2.92	0.18	5.24	8.84	4.51	5.13	14.37	7.57	11.30	10.29	8.47
1952	1.88	0.48	0.09	4.28	10.15	8.72	6.73	4.19	3.96	14.07	12.07	12.06
1953	3.91	0.65	0.78	4.08	10.99	8.38	7.66	7.52	6.67	16.00	12.12	3.96
1954	1.23	1.11	0.94	5.35	11.61	9.18	13.62	11.19	7.49	11.28	16.16	4.88
1955	9.32	0.40	1.54	0.12	12.10	11.16	8.71	12.32	7.10	6.51	13.88	10.09
1956	6.23	2.09	2.96	1.60	10.27	5.59	14.46	8.16	11.80	15.44	9.52	3.51
1957	0.30	0.42	0.14	0.04	12.44	7.43	8.49	8.95	8.03	18.10	8.44	4.86
1958	2.65	1.87	1.80	1.29	10.23	4.55	6.85	11.23	7.06	14.07	5.66	4.09
1959	0.17	0.02	0.05	1.66	6.59	7.29	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	1.80	-1.00	-1.00	9.40	8.90	15.20	9.60	-1.00	-1.00	-1.00	-1.00	-1.00
1971	-1.00	1.30	2.00	0.00	17.30	5.10	5.80	9.50	15.30	10.50	10.70	0.70	
1972	4.90	1.20	1.00	8.10	7.60	10.50	4.30	7.40	9.40	10.90	11.00	5.30	
1973	1.10	0.50	0.00	0.50	9.00	6.90	11.80	9.10	11.60	11.50	16.30	6.20	
1974	0.40	0.10	0.50	1.20	4.20	9.90	13.00	12.30	7.20	20.20	14.80	3.50	
1975	0.00	0.60	2.50	1.00	10.20	7.70	8.20	12.40	5.50	13.50	18.20	14.90	
1976	1.20	1.40	0.20	3.50	6.40	9.60	2.00	8.60	15.30	16.20	5.60	2.00	
1977	0.60	0.50	0.50	0.20	7.90	8.10	5.70	17.90	14.60	13.30	14.10	1.90	
1978	0.60	0.50	1.80	7.50	10.80	11.20	11.10	14.00	8.20	13.70	9.30	1.90	
1979	0.10	0.80	0.10	5.30	4.70	10.10	12.00	14.60	10.20	7.90	13.00	4.20	
1980	4.10	1.80	0.00	0.60	9.60	6.70	6.60	8.30	5.60	9.10	14.00	6.90	
1981	13.30	0.80	2.00	12.60	20.30	12.40	12.80	13.30	7.30	14.50	13.70	14.40	
1982	3.20	0.00	0.40	5.00	6.30	6.10	5.70	10.70	7.00	10.60	4.40	0.70	
1983	0.40	0.10	0.10	2.00	6.50	11.00	5.50	6.30	8.90	8.00	12.90	7.30	
1984	3.60	1.40	0.50	2.10	8.10	12.90	6.40	12.90	11.80	14.80	17.10	0.80	
1985	0.80	0.80	0.10	0.40	4.10	9.50	6.40	8.80	13.70	8.30	11.80	7.40	
1986	0.60	0.40	0.80	3.10	3.40	9.20	5.00	10.10	10.80	19.50	5.90	1.20	
1987	0.70	1.20	0.10	5.60	13.80	5.80	11.20	9.30	13.60	15.00	8.00	4.80	
1988	0.00	0.60	0.10	0.40	7.40	9.20	7.40	10.10	17.90	12.70	12.30	7.10	
1989	1.50	1.50	0.90	0.70	8.00	7.00	5.30	6.00	4.80	5.40	5.10	6.10	
1990	1.50	0.10	1.30	2.10	11.90	5.30	9.10	7.80	11.00	18.90	12.60	8.90	
1991	0.30	0.70	3.50	0.50	10.90	9.10	8.00	10.90	12.10	11.00	10.50	2.90	
1992	0.60	0.20	0.30	5.10	11.20	13.60	9.00	12.30	12.50	13.50	10.60	5.40	
1993	2.90	0.40	0.90	3.10	8.80	8.10	11.60	8.30	9.70	12.80	15.00	7.60	
1994	3.00	0.10	2.10	1.00	11.20	9.30	4.50	11.00	9.50	9.00	16.80	2.00	
1995	2.90	0.40	0.20	2.70	15.60	12.30	13.60	5.80	6.20	11.90	11.40	9.00	
1996	10.10	4.60	4.50	1.00	11.40	6.20	11.20	8.60	10.70	11.20	12.80	2.50	
1997	0.50	0.80	0.10	0.40	7.80	10.70	5.10	2.40	11.30	9.70	4.10	6.70	
1998	0.10	0.20	0.40	4.30	9.40	11.70	7.60	10.80	12.40	12.20	10.30	9.90	
1999	3.40	1.20	4.50	3.40	2.90	13.40	6.80	10.00	11.70	9.10	12.00	17.30	
2000	3.70	1.20	0.00	3.40	9.60	11.20	5.70	7.80	8.00	14.20	8.80	13.50	

DATA ECHO

0 SITE NO.	6 CANDELARIA (CDL)	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	2.52	0.87	1.00	2.26	-1.00	-1.00	10.98	10.44	10.50	16.63	19.36	10.55	
1935	8.98	2.46	2.51	4.83	15.86	10.29	23.32	14.78	10.56	15.89	55.36	20.14	
1936	2.12	0.91	1.54	4.48	19.01	8.79	16.22	15.96	11.49	10.69	20.43	2.62	
1937	9.98	2.25	1.14	3.41	17.03	15.96	17.27	12.99	12.82	14.59	17.66	24.07	
1938	2.14	2.73	0.87	11.67	26.36	18.53	9.85	17.37	13.80	6.95	11.38	22.28	
1939	1.00	0.30	1.48	2.31	6.14	13.05	7.07	19.05	12.23	7.66	20.28	11.22	
1940	6.35	3.59	1.82	1.90	13.99	11.95	11.33	18.54	11.29	14.29	16.61	2.39	
1941	2.68	5.55	3.38	2.46	13.85	14.05	12.20	16.93	9.82	31.73	19.65	4.26	
1942	2.02	1.52	5.26	6.96	12.27	23.00	10.81	16.55	10.69	21.92	7.75	13.17	
1943	4.15	6.69	1.16	7.51	11.23	13.75	9.53	14.94	16.57	11.81	9.51	22.49	

1944	3.66	3.60	0.89	10.12	14.43	9.66	19.79	19.99	10.21	19.04	16.56	28.49
1945	3.24	1.50	0.66	3.65	13.05	20.36	14.28	16.82	9.79	8.89	11.33	14.69
1946	0.89	1.72	1.26	1.91	16.61	12.24	18.72	10.74	17.92	12.47	5.89	20.58
1947	0.79	1.99	0.86	6.78	5.89	15.21	10.07	13.55	10.32	13.68	9.61	9.77
1948	2.15	0.51	0.76	1.17	8.90	16.22	12.81	10.24	8.70	11.35	22.51	3.71
1949	0.92	1.50	1.16	4.68	9.89	21.31	16.07	14.12	18.10	14.17	15.55	9.19
1950	1.91	3.88	1.01	10.69	11.96	11.54	20.15	17.56	16.61	7.11	14.27	17.56
1951	2.04	12.73	1.28	9.08	14.52	11.07	11.79	14.61	10.81	14.20	10.05	10.28
1952	4.43	1.14	0.34	8.21	14.65	10.07	17.95	18.53	15.00	27.80	8.38	15.14
1953	12.70	2.02	2.24	5.14	15.47	7.19	14.45	10.64	6.27	15.81	12.86	11.95
1954	2.02	2.92	1.84	5.40	14.74	16.43	16.38	14.21	15.69	9.61	21.67	15.99
1955	15.89	0.91	2.78	1.05	8.90	7.87	15.34	24.73	12.78	7.98	28.65	10.70
1956	12.56	2.77	4.82	4.68	22.83	15.35	17.71	13.56	12.91	12.45	21.29	6.10
1957	1.30	1.31	0.10	0.33	11.58	8.75	7.49	11.37	10.59	13.76	23.03	8.49
1958	6.14	3.41	4.70	1.50	12.75	12.63	21.24	13.14	14.94	11.65	14.15	8.22
1959	1.31	0.49	0.33	3.80	7.82	12.88	12.32	10.84	15.90	13.31	18.30	31.69
1960	6.21	1.28	3.70	13.13	16.95	9.82	9.50	12.67	16.02	10.13	12.58	19.91
1961	1.72	0.74	0.71	6.48	8.44	18.58	10.34	12.61	11.26	16.53	11.73	4.23
1962	2.96	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	10.30	10.01
1963	-1.00	5.54	0.60	12.75	18.44	15.85	13.15	18.49	-1.00	-1.00	12.32	3.25
1964	0.54	0.95	0.36	5.34	11.44	-1.00	-1.00	-1.00	-1.00	12.00	14.30	2.30
1965	4.56	1.02	0.53	0.25	16.22	13.15	7.25	7.17	12.18	15.75	16.05	12.64
1966	5.14	0.64	1.32	16.45	12.18	12.18	11.16	13.08	10.68	14.20	28.66	18.10
1967	3.33	1.02	1.79	12.67	10.41	21.89	15.18	13.27	13.81	15.91	16.22	13.67
1968	0.60	3.16	3.41	2.93	16.34	13.21	12.20	10.44	8.95	16.08	11.13	5.36
1969	2.67	1.31	2.27	10.80	10.79	6.66	8.54	14.12	17.81	6.27	8.44	17.58
1970	19.68	4.17	2.95	12.96	19.29	7.49	10.92	18.81	8.95	12.51	17.50	25.40
1971	3.30	1.90	7.30	1.30	11.30	18.40	16.20	14.30	10.80	12.10	14.40	3.20
1972	19.20	1.80	1.00	8.50	14.50	11.00	7.80	9.90	10.90	12.60	9.80	8.20
1973	2.30	1.30	0.10	1.00	12.40	9.00	17.10	16.30	10.70	11.40	23.00	12.80
1974	2.10	0.80	1.10	1.70	10.40	8.20	14.90	7.90	12.80	12.40	15.30	2.90
1975	1.60	0.50	0.70	0.30	12.60	23.30	15.20	17.20	15.60	17.60	14.00	16.40
1976	3.00	1.80	2.30	6.70	11.10	1.90	1.70	5.90	15.20	8.30	9.30	3.20
1977	3.40	0.40	0.80	1.20	7.50	12.50	11.20	19.10	12.10	21.10	12.80	6.10
1978	1.00	3.30	3.10	13.40	13.80	18.60	11.50	11.00	13.60	13.10	17.10	4.20
1979	0.60	1.90	2.40	11.50	11.50	11.20	9.50	9.60	6.50	9.20	15.10	13.50
1980	8.30	5.00	0.90	2.80	13.40	14.50	7.80	13.20	11.70	15.60	12.00	9.80
1981	15.50	4.10	3.70	28.00	14.00	13.40	20.40	9.60	7.20	14.90	11.90	15.90
1982	5.10	0.90	0.60	5.50	8.10	13.20	17.80	12.00	9.80	16.50	5.40	2.50
1983	1.60	0.80	1.60	6.50	14.50	12.00	5.70	9.30	17.60	20.90	7.60	21.80
1984	2.60	1.40	0.30	1.40	8.70	18.40	13.90	17.40	14.20	10.10	6.90	8.10
1985	2.90	1.90	3.10	3.20	7.60	14.30	9.60	5.90	15.20	12.40	10.80	13.50
1986	3.60	0.50	2.30	12.50	15.40	14.10	4.70	10.90	17.50	11.20	7.80	2.90
1987	2.00	2.90	0.30	20.70	21.90	14.70	18.70	14.50	14.10	19.70	20.70	4.80
1988	1.10	3.30	1.60	1.30	13.00	12.70	20.00	13.90	5.00	13.50	9.40	9.10
1989	2.70	7.00	1.20	1.40	11.80	6.80	17.40	18.20	10.30	12.30	13.50	10.50
1990	6.30	1.20	4.00	3.50	15.90	8.00	11.50	15.50	12.40	22.10	12.30	8.80
1991	0.50	2.30	2.00	4.30	16.00	11.20	11.00	14.00	18.10	15.80	24.30	4.50
1992	2.00	1.00	1.30	11.40	27.60	10.90	13.30	20.50	16.90	10.70	11.10	6.20
1993	4.90	1.00	11.00	13.90	9.90	24.10	7.80	7.40	18.10	19.70	11.30	6.20
1994	1.60	1.70	4.70	0.80	17.20	20.80	12.40	20.50	11.40	11.00	20.40	3.50
1995	6.20	0.60	0.80	5.40	11.40	21.70	19.10	8.50	8.10	13.10	15.50	15.50
1996	15.30	4.90	3.30	7.80	16.60	16.60	8.00	14.00	13.50	10.20	25.50	18.80
1997	1.80	2.40	0.20	0.00	15.70	10.40	7.60	2.10	9.60	16.10	6.90	1.00
1998	1.50	1.80	0.90	7.40	13.00	15.90	15.30	19.20	15.10	12.80	11.40	17.20
1999	4.30	9.50	5.80	13.20	15.00	14.30	17.90	12.90	20.60	13.90	13.20	39.40
2000	5.00	2.90	1.60	3.60	10.70	18.10	7.80	13.80	10.20	18.40	7.80	25.80

DATA ECHO

0	SITE NO.	7	CIENTO (CNT)	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	2.93	0.00	2.09	1.18	15.40	8.80	14.57	15.92	11.59	9.43	12.98	1.34		
1949	0.22	0.00	0.64	1.06	10.47	11.16	10.63	11.49	11.98	16.37	32.60	13.99		
1950	0.13	2.33	1.92	5.11	6.21	15.13	17.90	16.46	11.84	11.79	28.61	32.25		
1951	2.17	7.37	1.00	4.59	19.45	6.02	15.47	15.42	15.35	24.05	17.78	17.61		
1952	1.48	0.29	0.01	4.49	21.25	16.45	16.09	15.45	15.64	14.91	8.39	20.07		
1953	4.34	2.90	1.22	3.02	9.78	9.11	16.15	14.13	8.86	27.16	17.71	5.92		
1954	0.36	1.18	0.62	4.05	13.42	14.78	21.90	16.58	18.58	13.13	22.72	11.09		
1955	9.26	2.75	0.77	0.17	12.59	13.46	11.52	16.46	10.80	20.51	23.43	8.26		
1956	7.93	1.80	7.49	4.03	27.47	7.83	14.78	13.50	13.93	19.89	18.10	5.01		
1957	0.26	0.73	0.00	0.56	8.30	8.95	6.67	9.12	14.75	23.50	20.88	4.74		
1958	6.41	3.35	2.23	4.86	7.09	10.40	12.30	8.17	11.81	11.32	10.54	6.00		
1959	0.27	0.00	0.29	3.15	9.93	10.05	8.27	12.07	18.72	18.70	17.39	34.20		
1960	3.66	0.36	7.25	13.75	14.96	11.50	13.00	11.81	7.19	17.70	16.05	28.97		
1961	1.35	0.35	0.16	4.61	9.90	16.87	12.26	15.88	13.74	19.90	19.09	4.13		
1962	2.48	0.46	0.95	5.68	27.66	9.24	10.56	9.26	11.22	-1.00	-1.00	-1.00		
1963	12.74	0.93	0.82	3.11	11.69	12.63	13.65	17.49	12.06	-1.00	19.58	4.21		
1964	1.17	-1.00	2.69	6.51	15.37	-1.00	-1.00	-1.00	-1.00	23.50	25.00	-1.00		
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	18.49	31.78	47.72	12.25		
1966	3.95	-1.00	-1.00	6.71	-1.00	11.56	18.41	-1.00	-1.00	12.11	36.56	38.66		
1967	0.28	0.47	0.51	4.63	13.44	19.03	13.42	12.31	10.57	18.70	29.40	6.82		
1968	0.06	3.97	2.75	1.14	10.59	9.69	8.74	16.48	12.19	20.76	21.80	1.13		
1969	2.43	0.83	1.89	3.97	17.83	4.80	20.41	17.35	20.28	12.32	15.74	21.88		
1970	17.75	4.14	1.79	13.69	13.63	10.15	15.77	11.40	11.56	25.14	29.70	24.59		
1971	8.42	1.30	2.34	0.05	-1.00	14.88	18.00	13.90	4.00	16.90	12.90	1.10		
1972	11.90	2.40	1.10	7.10	9.60	10.40	6.90	8.30	10.40	26.30	12.20	6.90		
1973	1.90	0.80	0.30	0.50	8.40	11.50	15.80	12.10	16.50	13.40	20.10	4.60		
1974	0.30	0.80	-1.00	-1.00	11.70	15.90	11.80	6.50	10.90	34.70	21.70	8.80		
1975	0.80	1.20	4.80	0.50	9.80	11.70	8.20	18.40	9.40	23.80	12.90	15.50		
1976	0.90	0.60	0.10	9.20	10.70	8.70	4.60	8.00	13.50	19.00	13.90	0.50		
1977	1.60	0.60	0.60	2.60	15.70	7.40	8.20	21.10	12.70	24.30	24.10	6.00		
1978	2.20	2.50	1.60	14.90	8.00	10.10	14.80	15.30	6.40	16.80	13.10	3.80		
1979	0.20	1.30	0.30	11.60	12.80	10.40	11.30	10.70	9.90	15.20	19.90	7.70		
1980	7.40	3.80	0.20	1.00	11.50	11.60	7.60	16.60	5.30	11.30	12.80	7.80		
1981	18.40	2.60	3.20	19.50	21.60	16.90	10.90	15.30	7.30	17.30	26.20	32.70		
1982	8.10	0.10	0.00	5.00	12.90	10.00	9.30	6.50	19.10	25.30	6.90	1.70		
1983	1.10	0.00	0.10	0.80	12.90	14.80	10.30	7.30	14.30	13.50	15.80	15.30		
1984	4.40	2.00	0.30	1.90	9.90	12.20	7.50	14.10	8.70	21.80	27.20	1.20		
1985	1.70	2.00	1.00	0.90	14.30	11.70	10.10	12.60	9.50	21.30	10.50	18.70		
1986	2.80	0.40	2.10	3.90	10.90	17.20	10.20	11.30	15.10	28.60	7.10	6.10		
1987	1.00	3.20	0.20	14.70	31.00	22.60	10.40	18.50	15.50	35.70	31.10	15.30		
1988	0.10	3.90	1.50	1.50	27.60	9.80	16.90	12.90	16.30	24.80	11.70	9.40		
1989	0.80	9.90	1.30	0.60	14.50	8.00	13.70	10.50	5.70	18.70	19.20	18.40		
1990	0.80	0.20	2.20	2.60	16.40	11.80	11.80	12.50	18.90	23.00	11.40	5.00		
1991	0.60	1.70	0.00	2.10	10.50	11.50	9.60	8.70	11.00	8.00	20.10	5.30		
1992	1.60	0.10	0.50	7.40	23.90	10.40	9.30	14.60	20.60	9.60	7.70	5.50		
1993	4.80	1.20	5.60	3.20	7.60	11.80	10.70	13.10	16.40	18.80	15.20	5.40		
1994	4.20	0.60	3.60	1.40	8.30	18.80	10.10	12.10	11.80	13.10	16.00	1.30		
1995	7.40	1.20	1.40	10.80	13.80	10.10	13.90	13.10	15.70	11.80	15.10	8.80		
1996	16.20	1.50	3.00	4.20	9.70	20.90	7.90	11.50	9.80	6.20	27.30	6.80		
1997	0.90	0.30	0.20	0.60	17.60	9.70	2.80	8.90	11.30	7.90	13.70	1.20		
1998	0.60	0.20	0.50	8.20	14.60	15.50	12.00	14.20	11.40	11.80	12.80	16.70		
1999	1.90	2.60	6.30	10.20	9.60	16.10	11.50	15.10	12.30	11.50	26.60	28.90		
2000	6.30	0.30	0.30	2.90	14.90	22.10	11.40	12.10	12.00	32.40	8.10	22.40		

DATA ECHO

0 SITE NO.	8 CHICO (CHI)
1911	-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00

1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	20.21	23.64	4.39	
1933	1.06	0.05	-1.00	0.29	10.58	5.49	12.01	13.27	12.16	10.41	18.83	8.77		
1934	0.95	0.00	0.28	1.94	17.31	9.47	11.54	10.80	9.71	15.34	15.15	5.78		
1935	2.11	0.99	0.35	0.90	14.36	15.11	22.05	19.11	10.49	11.88	42.59	10.88		
1936	0.62	0.17	0.17	2.64	16.51	11.25	12.68	11.82	16.89	12.68	10.30	2.39		
1937	5.00	0.36	0.27	2.15	7.07	7.40	15.45	12.53	16.61	18.67	16.70	19.54		
1938	0.30	0.86	0.37	4.39	24.29	12.02	14.70	23.35	13.15	18.74	12.30	14.00		
1939	0.19	0.00	0.42	0.19	5.88	12.52	3.83	10.24	16.02	15.47	22.32	10.39		
1940	1.54	1.18	0.32	0.81	5.46	7.32	4.66	11.40	12.66	14.57	14.32	0.42		
1941	0.80	3.92	1.20	2.43	10.56	14.63	13.43	12.77	14.57	16.92	14.50	4.46		
1942	0.71	0.23	0.21	2.37	12.21	12.98	11.29	12.72	15.34	17.40	12.19	13.11		
1943	1.71	1.22	1.18	3.26	11.99	10.92	8.81	10.35	17.33	18.45	10.10	12.12		
1944	1.51	0.20	0.30	7.45	11.46	12.12	14.65	16.08	9.99	19.79	7.49	9.15		
1945	0.58	0.20	0.23	2.75	9.05	13.01	17.70	21.77	7.27	10.95	14.25	9.04		
1946	0.67	0.27	0.23	0.30	14.50	14.30	15.33	8.75	14.91	12.12	12.36	9.51		
1947	0.34	0.74	0.34	1.35	7.50	13.94	12.56	13.20	12.60	18.86	17.13	7.04		
1948	0.67	0.19	0.15	1.13	6.92	11.10	22.05	5.85	9.70	14.62	13.66	3.97		
1949	0.38	0.24	0.15	1.75	11.60	19.50	17.52	12.06	13.14	17.00	14.46	4.56		
1950	0.31	0.91	0.50	4.57	16.58	16.08	16.00	16.75	11.42	8.47	17.44	14.77		
1951	0.64	5.53	0.25	5.68	14.79	10.54	11.40	14.16	17.66	14.05	11.02	2.96		
1952	1.34	0.32	0.02	6.02	12.02	9.56	11.31	10.29	17.73	19.42	10.13	10.26		
1953	5.58	0.36	0.80	5.88	16.11	10.41	16.16	9.30	10.95	16.16	15.01	6.52		
1954	0.20	0.65	1.08	1.05	19.69	14.48	16.77	12.27	15.33	9.76	13.47	4.23		
1955	6.89	0.29	1.37	0.03	5.50	14.13	13.85	22.68	20.85	10.61	16.73	5.17		
1956	6.73	1.04	0.96	1.71	13.10	11.40	17.52	9.85	10.00	16.10	16.68	3.80		
1957	0.10	0.40	0.06	0.06	4.01	7.90	9.01	6.99	8.54	18.21	14.33	1.84		
1958	2.62	0.37	0.96	1.51	13.72	15.99	13.93	10.58	11.19	9.21	11.09	2.65		
1959	0.33	0.03	0.06	0.45	4.34	13.28	5.21	10.95	11.47	11.58	6.99	14.93		
1960	4.22	0.10	0.81	2.58	19.79	11.10	15.31	13.16	11.92	23.71	13.04	19.13		
1961	0.36	0.05	0.15	3.84	8.28	14.26	10.15	15.83	16.42	13.17	10.50	8.13		
1962	0.50	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9.70	4.80		
1963	3.50	0.83	0.01	7.17	9.63	15.07	15.79	18.68	9.24	8.61	9.18	0.33		
1964	0.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	20.10	12.70	4.60	
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1966	-1.00	-1.00	-1.00	5.98	10.72	8.96	17.41	12.64	16.56	20.33	21.49	19.30		
1967	0.64	0.04	0.11	6.52	-1.00	-1.00	15.27	11.59	14.49	18.11	14.53	5.72		
1968	0.11	1.04	0.10	1.08	9.68	13.83	9.34	14.96	11.81	24.65	11.44	2.02		
1969	1.18	0.00	1.40	1.67	6.69	9.12	7.26	20.16	16.02	7.56	12.47	8.53		
1970	10.68	1.19	1.36	11.80	16.92	6.65	14.21	17.01	16.11	12.06	12.15	15.25		
1971	1.96	0.27	2.92	0.90	12.10	12.50	15.70	16.90	13.90	13.10	12.10	0.50		
1972	2.70	0.60	0.10	7.60	8.40	11.90	2.90	6.00	10.90	11.10	9.90	3.20		
1973	0.30	0.20	0.00	0.30	10.60	11.80	11.00	13.40	14.30	16.80	18.70	5.20		
1974	0.40	9.00	0.10	1.20	4.80	20.40	6.80	10.30	14.00	14.40	9.60	1.20		
1975	0.00	0.10	0.10	0.90	10.20	9.70	13.90	12.10	11.20	16.80	13.10	6.70		
1976	0.60	0.20	0.40	3.10	10.70	11.60	4.00	13.60	9.90	9.40	8.80	1.40		
1977	0.90	0.10	0.10	0.50	10.50	11.00	4.40	14.30	11.50	16.30	8.90	2.50		
1978	0.70	0.20	0.90	6.80	10.60	18.40	13.50	14.70	9.50	11.10	11.20	2.70		
1979	0.20	0.10	0.10	7.60	6.00	7.00	20.60	14.60	9.40	11.70	10.70	3.00		
1980	1.40	1.40	0.90	0.90	8.90	9.90	6.90	15.60	9.20	12.40	14.40	3.80		
1981	2.10	0.40	1.40	13.70	10.60	13.70	12.30	15.30	7.60	9.00	9.50	9.60		
1982	3.20	0.00	0.00	3.00	9.20	7.90	11.30	6.20	9.00	16.60	5.00	2.10		
1983	0.40	0.00	0.90	4.40	6.20	8.20	8.20	9.70	16.40	23.10	19.50	12.40		
1984	0.40	0.20	0.30	0.00	12.60	18.90	11.20	21.80	8.60	19.30	12.60	1.30		
1985	1.20	0.40	0.90	1.90	6.80	21.40	15.90	10.00	16.10	11.80	7.30	10.80		
1986	0.60	0.10	0.80	4.80	5.50	11.00	5.50	7.60	10.20	26.80	10.30	1.40		
1987	0.50	0.60	0.10	9.80	16.40	11.30	19.70	15.00	17.90	18.40	13.80	4.80		

1988	0.10	1.00	0.50	1.80	13.50	8.80	17.90	18.80	18.50	20.40	14.20	3.80
1989	0.80	2.10	0.20	1.00	6.30	14.30	12.80	15.20	7.90	12.60	14.10	5.20
1990	2.40	0.20	0.80	0.80	8.30	5.90	10.20	16.20	14.50	24.70	13.80	6.10
1991	0.40	0.40	1.90	4.50	12.60	10.60	8.80	10.10	10.30	12.30	10.40	4.70
1992	0.40	0.20	0.30	3.70	16.50	21.50	13.80	15.80	10.30	11.80	5.90	4.00
1993	1.60	0.10	2.30	5.80	10.70	20.30	7.00	6.50	15.40	14.70	6.60	2.80
1994	0.70	0.20	1.00	1.40	10.30	12.20	6.90	9.60	11.60	16.00	11.60	0.70
1995	0.60	0.00	1.60	3.30	12.00	14.00	9.70	16.70	9.30	15.30	11.90	5.90
1996	10.00	1.10	1.20	5.00	11.90	21.10	7.20	13.40	16.00	13.30	15.20	5.70
1997	0.40	0.30	0.10	2.50	5.30	11.90	7.40	4.70	12.50	11.20	14.80	0.20
1998	0.20	0.10	0.20	2.50	16.30	13.00	15.00	11.30	15.70	15.80	15.40	11.30
1999	1.50	2.80	0.60	2.10	14.20	15.00	14.00	12.10	11.40	13.90	17.40	18.60
2000	1.70	0.10	0.20	2.60	8.90	15.90	6.50	18.10	13.10	18.80	6.20	19.70

DATA ECHO

0 SITE NO.	9 LIMON BAY (LMB)	1	2	3	4	5	6	7	8	9	10	11
1911	0.99	1.81	1.41	3.06	17.13	15.58	14.58	11.60	11.62	16.53	15.81	2.63
1912	0.28	1.81	0.66	0.75	12.03	15.90	13.13	9.87	12.23	17.65	21.81	11.47
1913	6.71	1.75	0.79	2.69	22.60	11.81	15.13	17.91	9.90	18.63	16.75	6.55
1914	1.35	1.32	0.91	4.12	17.76	16.30	10.74	16.01	14.80	22.16	18.35	8.88
1915	3.41	12.37	1.71	10.42	7.75	16.01	20.72	12.89	13.85	21.86	22.33	9.45
1916	2.33	1.96	2.68	6.25	9.38	14.28	10.44	8.34	10.41	17.59	14.08	5.71
1917	1.10	0.45	0.76	1.87	12.11	14.37	13.58	15.79	17.67	7.87	20.49	11.66
1918	3.28	0.67	0.41	5.34	19.26	8.56	10.36	18.85	15.34	27.07	14.23	1.90
1919	1.82	0.36	0.61	10.95	6.95	12.08	13.60	6.77	11.74	21.94	6.63	7.37
1920	0.51	0.54	1.08	1.72	5.48	13.29	17.58	23.04	6.81	17.16	21.27	2.06
1921	1.31	1.63	0.98	7.43	13.61	15.18	10.49	18.45	11.21	8.27	19.96	6.50
1922	6.85	0.71	0.92	2.11	8.88	8.30	4.40	14.53	12.73	13.87	15.63	7.20
1923	1.98	0.69	0.36	1.21	11.18	15.17	10.33	15.35	12.31	42.17	22.16	5.12
1924	0.61	2.80	0.71	10.85	14.86	16.49	20.63	7.42	9.00	21.56	30.29	8.84
1925	3.66	0.73	0.31	5.47	8.23	13.77	21.08	7.71	8.17	16.49	22.95	6.04
1926	0.70	1.78	0.43	0.34	13.73	31.23	16.15	20.84	10.45	15.31	29.39	7.60
1927	4.60	3.21	1.27	6.93	14.11	13.74	18.64	26.63	17.32	13.12	28.35	16.70
1928	1.71	0.71	2.42	0.86	12.72	16.22	10.29	24.49	15.46	18.02	17.20	16.43
1929	0.81	0.56	2.59	0.67	10.07	18.96	18.67	23.78	7.90	13.74	8.99	7.87
1930	2.46	0.75	1.07	6.85	14.21	9.40	8.99	14.35	10.88	7.26	16.94	7.86
1931	2.01	0.97	4.48	4.30	17.71	9.26	13.36	17.52	8.24	20.42	30.31	3.47
1932	1.44	0.95	2.69	2.23	16.55	14.36	17.45	12.10	7.15	16.75	37.13	7.64
1933	2.10	0.08	1.11	0.35	8.12	15.88	9.88	8.27	9.11	19.84	43.06	18.46
1934	3.94	0.55	1.10	5.48	11.94	9.89	2.00	13.86	21.30	17.49	28.81	15.66
1935	5.81	3.10	0.80	1.87	17.16	16.26	26.23	14.72	21.31	8.90	42.73	13.02
1936	1.54	0.13	0.87	3.29	12.86	10.57	18.72	13.78	14.58	11.36	23.11	3.53
1937	4.20	0.46	0.32	1.65	20.99	26.91	9.50	13.26	14.09	16.58	23.23	32.94
1938	2.27	1.11	1.68	6.25	12.74	18.01	22.25	22.32	10.50	17.26	18.90	29.29
1939	0.48	0.50	0.64	1.00	6.28	12.60	6.67	11.66	16.91	17.52	35.18	17.08
1940	2.67	1.83	0.63	1.83	11.00	14.41	15.90	19.04	13.77	16.28	20.91	4.25
1941	3.25	2.87	2.27	0.36	8.97	11.55	20.89	16.95	19.76	25.17	24.07	6.11
1942	1.52	0.69	3.30	8.33	8.95	18.59	17.35	10.74	21.62	31.65	12.60	23.75
1943	2.18	2.58	1.15	3.92	16.27	12.18	10.44	20.00	10.51	10.23	21.69	15.08
1944	1.23	2.96	0.18	8.93	25.43	6.31	11.82	18.40	4.40	20.15	16.41	22.36
1945	1.89	0.87	0.43	1.90	8.15	6.62	19.81	17.66	11.58	18.33	24.29	20.59
1946	2.08	0.75	0.80	0.55	5.38	9.63	12.31	13.28	14.12	15.37	25.54	26.71
1947	0.37	1.78	0.37	6.68	7.23	9.37	12.72	17.10	14.52	17.71	12.43	12.32
1948	0.83	0.14	1.21	1.57	7.29	9.34	15.82	11.52	11.35	15.11	22.40	4.32
1949	0.88	0.32	0.48	2.07	11.23	12.72	12.61	15.60	9.64	17.72	36.65	15.86
1950	0.87	3.97	2.17	4.26	7.23	13.84	17.22	16.77	10.25	13.74	39.12	19.77
1951	0.89	5.62	0.60	8.48	11.08	10.84	12.85	12.95	10.16	19.15	10.62	11.14
1952	3.26	0.93	0.03	6.97	15.70	18.12	20.88	20.31	9.76	21.12	20.76	19.97
1953	6.85	2.01	1.75	2.38	8.45	5.93	17.95	11.59	12.27	18.41	21.87	9.11
1954	1.38	1.72	0.67	4.29	12.44	15.13	17.24	19.43	10.66	9.76	27.50	10.43
1955	11.18	1.79	1.33	0.44	13.43	10.90	9.58	13.41	3.14	13.99	23.95	14.20
1956	10.25	1.42	4.43	2.39	18.27	9.74	24.77	14.86	11.70	15.66	29.72	6.71
1957	1.06	0.39	0.47	0.08	6.16	11.87	11.09	21.19	11.48	8.39	27.94	7.01
1958	6.69	3.35	5.61	5.10	6.57	7.85	19.03	12.76	15.76	26.14	14.57	7.64
1959	3.13	0.04	0.40	3.96	13.88	9.28	15.41	11.18	21.34	10.23	15.94	22.14
1960	2.70	0.61	4.73	10.38	24.18	12.65	10.92	10.99	8.42	19.31	32.04	29.18
1961	0.68	0.22	0.75	2.27	9.44	10.13	9.98	10.34	12.90	15.42	21.94	8.96
1962	2.29	0.59	0.72	2.23	23.05	6.62	24.34	18.01	13.14	11.64	25.35	17.85
1963	7.05	6.39	0.38	2.28	13.22	13.61	8.94	13.70	11.22	6.34	22.72	3.50
1964	0.74	0.65	0.55	3.39	9.39	17.58	18.68	18.80	13.58	11.78	14.36	2.03
1965	4.82	1.42	0.08	2.22	12.10	9.17	9.79	20.31	14.12	23.70	25.78	7.62
1966	1.11	0.57	2.63	6.49	15.44	3.38	13.84	20.26	13.36	14.90	35.08	13.90
1967	0.93	0.42	0.52	2.94	7.74	18.06	16.52	8.56	11.95	18.84	27.65	10.44
1968	0.21	1.57	2.48	0.53	8.88	11.61	19.49	13.67	14.95	12.90	13.38	3.48
1969	2.54	1.02	2.06	1.21	20.30	5.69	13.95	20.21	18.35	11.01	15.81	15.35
1970	9.21	2.09	1.72	14.75	21.05	9.73	19.64	12.02	13.43	11.80	32.21	18.65
1971	7.39	1.66	2.91	0.30	9.97	21.90	9.97	15.70	15.20	13.00	14.40	1.10

1972	11.90	2.40	0.60	13.40	6.90	15.00	8.60	12.60	10.10	22.00	8.00	6.20
1973	3.00	0.10	0.20	1.10	10.50	10.90	17.60	15.10	14.40	13.60	16.50	8.00
1974	0.40	0.50	0.40	0.80	7.80	24.30	18.50	9.60	5.40	23.40	34.50	5.00
1975	0.20	1.00	1.70	0.40	4.20	14.60	11.50	17.90	11.20	22.50	12.80	20.40
1976	1.10	0.60	0.20	4.80	6.60	15.30	5.30	14.40	9.00	20.80	12.20	1.30
1977	1.00	0.70	0.10	1.90	14.00	12.30	8.10	22.20	11.60	21.30	23.70	4.20
1978	1.80	1.40	1.70	11.50	5.30	20.60	8.40	14.00	8.20	19.60	10.70	2.20
1979	0.30	0.80	0.00	13.50	17.00	17.20	12.80	11.80	11.50	-1.00	-1.00	-1.00
1980	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	13.20	16.40	11.80	13.10
1981	2.50	0.20	2.30	14.20	21.00	17.30	15.00	20.60	5.60	22.10	37.60	14.20
1982	11.40	1.40	0.60	6.50	5.60	10.20	14.10	7.90	12.20	15.80	7.90	0.50
1983	1.10	0.10	0.10	5.90	9.00	12.60	5.50	16.70	18.60	16.10	17.50	22.90
1984	2.30	1.40	0.70	1.60	12.20	20.00	9.00	11.10	12.70	13.50	18.40	4.90
1985	2.70	0.50	0.40	0.70	17.30	15.50	10.50	19.60	7.10	22.50	18.90	11.80
1986	0.50	0.60	0.60	4.40	10.30	20.10	7.40	14.70	10.50	10.70	8.60	3.60
1987	0.80	0.80	0.40	10.90	22.90	8.70	16.20	21.90	19.60	26.50	16.80	13.90
1988	0.00	2.00	0.10	0.70	8.30	16.30	19.60	11.20	12.40	15.40	15.60	7.30
1989	0.30	1.40	0.30	0.60	8.10	6.50	14.20	14.00	8.70	28.70	18.50	4.60
1990	1.70	0.10	1.30	2.80	13.60	11.50	14.30	18.20	20.70	18.10	12.20	9.70
1991	0.20	0.30	0.70	4.40	12.90	7.20	8.40	10.40	24.10	11.90	25.20	2.80
1992	0.20	0.50	0.20	10.20	15.70	11.80	20.10	18.40	11.30	18.00	11.30	12.20
1993	2.40	0.80	1.20	11.00	5.60	14.70	10.60	17.00	16.50	11.60	18.50	14.30
1994	1.50	0.30	1.10	1.50	12.00	20.30	11.20	13.50	16.50	8.30	15.00	5.10
1995	1.20	1.10	0.40	4.40	18.70	20.20	14.60	8.80	12.70	12.50	21.50	20.40
1996	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1997	1.40	0.20	0.10	2.20	10.50	7.60	7.60	12.00	18.10	7.80	14.60	0.60
1998	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	11.20	13.60	8.20	16.70	9.80	15.80
1999	2.90	1.20	3.30	3.00	15.20	10.50	19.70	18.40	7.60	11.10	14.90	24.60
2000	3.30	0.00	0.00	0.10	2.30	22.60	5.70	12.70	9.00	21.00	8.00	24.40

DATA ECHO

0	SITE NO.	10	EL CHORRO (CHR)									
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	29.98	21.26	6.00	5.30
1948	1.72	0.16	0.29	0.25	8.90	5.11	9.73	10.50	10.07	7.66	20.45	2.90
1949	1.06	0.33	0.13	2.13	10.81	11.74	6.32	11.40	19.29	16.38	19.53	9.74
1950	0.73	1.75	0.23	2.89	14.86	16.57	11.69	9.53	12.76	10.05	21.30	13.23
1951	1.49	4.49	0.40	5.04	7.97	5.32	11.01	7.80	10.24	9.41	15.64	6.46
1952	2.96	1.53	0.17	3.06	7.78	6.03	3.71	8.06	5.79	14.34	8.39	11.86
1953	7.32	0.15	0.44	1.74	10.65	3.84	6.05	4.96	7.17	11.25	16.40	5.99
1954	1.16	0.84	0.61	4.61	16.29	12.29	14.71	15.02	10.68	10.43	15.07	6.44
1955	8.76	0.49	2.35	0.98	11.52	9.50	9.87	15.16	11.59	9.03	16.63	7.55

1956	5.05	0.98	2.41	4.25	11.71	8.40	11.67	4.46	9.06	14.35	7.83	2.91
1957	1.07	0.19	0.13	0.02	15.53	5.93	7.71	9.22	4.81	13.75	8.26	6.60
1958	5.85	4.94	3.90	2.75	11.62	11.31	6.24	10.80	11.63	12.93	4.96	3.62
1959	0.53	0.00	0.39	2.37	7.14	9.83	6.24	7.28	10.32	15.61	7.82	15.53
1960	2.28	0.36	5.05	9.78	8.86	14.73	7.94	-1.00	-1.00	-1.00	10.77	20.55
1961	0.98	0.46	0.98	1.11	7.86	11.26	5.20	9.23	20.27	14.79	13.40	5.23
1962	0.83	0.92	0.82	3.07	10.06	8.99	11.62	12.20	15.47	9.71	10.68	8.10
1963	3.97	1.14	2.29	9.02	10.84	15.41	12.42	21.08	18.13	-1.00	-1.00	7.44
1964	1.02	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	4.33	0.19	0.00	-1.00	4.92	4.13	2.39	10.73	6.82	18.36	17.07	4.91
1966	1.86	0.02	0.85	2.46	10.68	10.67	7.91	12.93	-1.00	5.30	-1.00	12.15
1967	1.45	0.41	2.11	4.40	8.42	10.20	7.30	12.44	10.63	15.14	10.60	1.93
1968	0.21	5.08	2.58	0.52	15.31	18.44	3.15	11.33	15.18	15.72	10.54	1.53
1969	2.49	1.40	0.14	6.85	9.02	9.66	5.21	12.07	6.81	16.59	15.09	6.92
1970	6.12	2.07	4.25	4.52	12.81	8.63	6.40	12.04	13.01	10.60	15.66	16.93
1971	4.27	2.17	2.68	0.19	17.69	12.73	6.01	12.70	7.70	10.40	12.20	1.60
1972	6.30	2.00	1.10	10.10	8.30	12.00	4.00	6.80	11.60	10.50	7.80	2.00
1973	0.90	0.10	0.00	2.70	9.00	11.20	4.90	5.20	10.60	18.90	19.50	8.10
1974	0.30	1.00	0.70	1.20	4.80	6.50	9.70	7.20	7.20	18.00	15.50	1.70
1975	0.30	1.20	1.00	0.70	12.40	12.60	7.90	12.50	12.30	26.80	18.60	14.70
1976	1.30	0.90	0.00	4.70	8.40	4.70	3.50	4.00	12.40	14.10	4.90	2.40
1977	0.70	0.40	0.10	0.90	9.90	4.30	6.50	10.70	8.30	16.10	12.00	3.60
1978	3.30	0.50	3.10	11.90	14.00	14.00	9.70	10.70	7.80	14.70	6.80	1.00
1979	0.50	0.00	0.10	5.20	8.00	12.00	13.20	8.10	10.20	8.50	6.10	4.00
1980	3.40	1.90	0.10	1.70	14.80	9.60	15.30	8.90	7.80	12.20	16.90	7.00
1981	6.70	1.20	1.50	12.10	14.70	10.30	10.30	12.80	5.70	8.30	14.70	9.70
1982	5.80	0.50	0.80	2.70	10.50	7.50	5.20	10.40	8.60	15.10	5.50	0.60
1983	1.10	0.40	0.70	1.10	8.60	5.40	6.50	10.20	10.90	9.70	9.80	6.00
1984	3.60	3.80	0.80	1.00	10.80	1.20	4.80	16.40	15.00	12.50	15.70	1.70
1985	2.90	0.90	0.70	1.50	6.40	12.80	7.50	6.40	8.70	4.20	7.10	8.00
1986	2.30	0.40	0.40	8.30	10.60	7.10	4.60	9.50	7.50	14.40	15.20	2.40
1987	1.30	0.80	0.10	3.60	13.00	6.10	8.90	9.20	21.20	9.10	2.50	3.90
1988	0.20	0.80	0.20	2.10	10.20	11.40	10.70	9.20	11.00	8.40	11.60	6.30
1989	1.30	1.40	0.50	1.10	6.80	8.10	8.60	10.10	9.40	9.30	12.50	6.50
1990	0.60	0.10	1.30	2.30	19.00	6.90	8.70	10.00	15.90	16.30	13.20	3.30
1991	1.30	0.30	8.20	0.20	15.00	5.50	5.10	5.20	13.10	8.50	11.30	4.60
1992	0.00	0.40	0.10	6.40	10.80	9.80	7.00	9.10	16.90	7.20	9.30	4.80
1993	1.50	0.70	3.10	7.20	9.10	11.20	4.90	5.10	15.70	14.10	16.80	5.60
1994	2.20	0.30	2.80	1.50	7.70	7.10	3.50	6.20	7.20	15.90	16.10	0.10
1995	4.00	0.10	0.40	4.30	10.70	9.20	8.70	12.60	9.40	11.80	9.80	9.80
1996	12.80	3.40	4.60	3.00	12.40	12.30	8.20	9.10	14.00	10.20	13.40	2.60
1997	0.90	0.60	0.00	1.50	4.30	3.50	8.10	3.80	9.90	4.00	11.40	0.80
1998	0.50	0.50	1.50	6.70	8.70	7.60	7.10	4.00	9.40	11.60	10.60	19.30
1999	3.20	2.00	3.80	4.00	5.00	13.60	6.10	17.70	14.00	6.70	16.40	14.60
2000	4.60	0.90	0.40	2.00	12.70	12.50	6.90	15.20	6.90	12.90	7.50	10.70

DATA ECHO

0	SITE NO.	11	EMPIRE HILLS (EMH)									
1911	0.02	0.55	0.20	3.93	13.74	5.92	4.00	5.98	5.46	14.97	11.73	0.20
1912	0.01	0.34	0.01	2.64	6.21	8.50	9.15	10.53	13.78	12.44	7.24	3.71
1913	1.67	0.79	0.22	0.90	11.74	11.48	4.87	10.46	9.14	7.25	14.23	2.03
1914	0.34	0.27	0.00	0.50	12.87	8.87	5.02	9.90	9.65	9.07	6.00	4.44
1915	0.67	3.53	0.24	4.96	8.56	7.11	12.17	9.92	8.21	16.36	10.60	4.67
1916	1.07	1.49	0.84	4.05	9.92	7.03	7.86	5.66	9.21	14.29	16.58	5.11
1917	0.01	0.08	0.01	2.40	8.07	12.24	11.96	8.76	11.44	6.38	23.79	7.71
1918	1.50	0.02	0.20	6.91	13.56	9.31	9.24	5.18	9.25	20.15	7.19	0.38
1919	0.50	0.24	0.05	7.52	7.01	5.57	7.72	8.49	11.04	12.41	6.65	2.43
1920	0.15	0.05	0.80	1.51	7.66	11.01	11.18	10.01	18.93	15.64	9.30	1.56
1921	0.15	1.58	0.52	0.65	7.28	9.36	11.72	13.90	7.85	13.65	10.47	4.39
1922	3.58	0.89	0.26	0.00	10.99	8.70	6.53	4.90	6.28	11.55	11.33	4.31
1923	1.01	0.02	0.00	0.22	9.06	17.75	3.91	9.62	7.85	19.37	10.59	3.20
1924	0.01	0.91	0.82	4.26	7.68	10.51	8.60	10.30	7.95	12.76	17.49	5.65
1925	1.70	0.07	0.24	7.55	12.14	9.70	8.80	8.41	13.51	14.40	9.21	1.91
1926	0.08	0.07	0.00	0.00	10.54	11.04	17.28	7.40	13.53	17.09	7.09	9.90
1927	0.30	1.73	0.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1949	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1950	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1951	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1952	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1953	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1954	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1955	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1956	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1957	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1958	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1959	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	0.74	0.22	0.06	2.32	9.52	9.56	5.54	8.68	10.95	9.10	10.37	3.53	
1963	2.67	1.10	0.02	7.79	8.46	10.07	11.94	8.18	8.95	6.59	12.58	3.20	
1964	0.28	0.00	0.03	4.43	11.89	11.62	12.70	7.39	10.71	-1.00	-1.00	-1.00	
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1970	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1971	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1972	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1973	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1974	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1975	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1976	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1977	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1978	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	0.40	
1979	0.00	0.10	0.00	6.90	12.90	9.80	7.30	8.40	5.00	17.70	10.80	3.50	
1980	2.40	0.90	0.00	0.50	9.50	11.40	10.50	10.50	9.40	8.60	11.90	4.80	
1981	0.60	0.00	2.40	11.50	8.70	15.00	10.70	6.10	10.50	5.40	12.60	5.60	
1982	3.00	0.50	0.00	2.90	13.20	4.90	8.20	8.30	9.60	11.00	6.50	0.00	
1983	0.10	0.10	0.70	2.50	9.20	8.50	6.90	6.40	14.30	11.00	12.30	6.50	
1984	1.40	2.30	0.00	1.00	9.60	8.80	9.40	15.10	13.60	18.50	7.40	0.30	
1985	0.30	0.30	1.00	1.70	11.30	15.30	12.20	6.70	10.50	5.90	6.50	5.70	
1986	0.10	0.20	2.70	6.80	3.60	10.60	6.70	11.50	9.60	22.50	7.60	1.10	
1987	0.00	0.40	0.00	6.40	7.00	12.90	9.10	13.40	16.10	10.20	9.20	3.70	
1988	0.00	0.50	0.10	0.80	10.60	12.80	7.90	12.80	10.20	22.20	12.60	6.30	
1989	0.40	0.50	0.20	0.00	4.80	6.90	8.70	13.40	5.40	9.40	13.70	5.60	
1990	1.20	0.10	0.50	2.40	14.60	4.00	15.40	14.60	13.60	20.70	10.70	7.50	
1991	1.50	0.30	2.10	4.00	19.50	9.10	11.90	14.50	17.00	15.80	9.50	2.80	
1992	0.00	0.10	0.10	3.10	5.20	20.00	10.30	7.50	9.00	14.80	8.40	1.80	
1993	3.90	0.20	0.70	3.50	6.80	22.00	11.90	9.50	20.60	13.40	14.40	4.90	
1994	0.80	0.10	2.00	2.00	12.60	9.10	4.40	9.30	8.80	19.40	16.40	0.80	
1995	0.40	0.00	0.90	5.40	10.90	12.50	12.20	7.40	6.80	10.00	15.10	2.50	
1996	7.20	0.60	0.60	1.40	10.40	5.40	8.90	7.40	8.80	9.80	8.10	3.90	
1997	0.30	0.00	0.00	0.60	6.40	5.00	8.20	7.30	7.30	7.70	7.70	0.40	
1998	0.00	0.10	0.00	1.70	11.00	11.00	10.30	15.70	10.70	10.40	13.10	12.60	
1999	1.10	2.10	0.50	2.50	7.00	14.20	3.70	8.70	18.70	9.80	10.40	9.40	
2000	3.10	0.00	0.10	4.40	8.70	9.80	5.80	9.60	12.20	12.70	6.30	6.20	

DATA ECHO

0	SITE NO.	12	ESCANDALOSA (ESC)
1911	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00

1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	4.68	1.19	1.26	4.32	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9.80	13.87	6.13	
1949	2.20	2.21	1.26	5.61	13.67	22.54	17.21	15.43	10.94	15.38	16.20	11.44		
1950	3.44	6.85	1.73	8.87	17.50	11.84	26.85	7.97	9.84	9.48	21.35	22.51		
1951	4.52	15.03	2.44	10.71	13.84	11.58	8.65	16.90	11.21	15.82	10.85	7.18		
1952	5.29	1.54	0.17	5.72	15.68	9.77	21.92	18.11	11.56	20.33	7.26	22.97		
1953	15.00	4.53	3.95	3.45	13.95	9.71	15.50	11.18	9.11	12.38	14.66	13.71		
1954	3.24	3.88	2.30	8.50	16.57	16.36	20.92	14.16	9.88	11.88	23.21	19.40		
1955	15.14	2.36	2.56	3.45	11.49	9.22	11.16	19.72	10.94	7.59	32.77	14.18		
1956	15.17	3.98	8.76	4.56	20.95	10.65	18.75	11.19	10.09	8.76	22.28	10.16		
1957	3.63	2.51	0.45	0.47	10.62	7.70	4.44	11.07	8.17	11.70	23.50	9.42		
1958	6.34	4.22	5.92	1.75	11.30	4.51	20.26	10.42	14.78	9.93	14.03	11.32		
1959	1.67	1.03	0.51	7.57	11.18	14.88	13.91	9.80	18.49	17.13	23.88	-1.00		
1960	-1.00	-1.00	-1.00	-1.00	-1.00	11.90	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	2.82	0.94	1.92	7.58	8.22	28.54	9.41	11.45	7.68	11.16	12.05	8.28		
1962	4.89	1.18	2.56	3.18	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9.53	
1963	8.86	2.72	1.69	8.58	13.60	19.00	21.19	20.46	13.35	9.46	13.55	4.27		
1964	1.93	0.81	1.56	7.99	14.18	20.48	9.87	15.96	9.60	12.97	14.52	3.39		
1965	6.73	-1.00	-1.00	-1.00	18.38	15.20	9.12	8.98	12.20	21.43	23.58	-1.00		
1966	-1.00	-1.00	0.98	-1.00	-1.00	6.96	12.68	11.70	-1.00	-1.00	28.02	15.71		
1967	5.25	4.37	3.11	10.54	18.00	18.21	16.78	10.18	12.42	9.26	25.41	13.12		
1968	0.93	4.34	8.80	2.86	16.64	9.66	13.08	11.25	10.22	16.91	16.40	4.88		
1969	4.17	1.94	2.98	2.87	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	-1.00	4.30	14.50	20.30	7.50	10.30	13.00	9.10	6.40	27.00	33.00		
1971	3.90	2.90	7.00	1.30	12.20	18.90	14.60	11.70	9.00	18.90	13.30	5.00		
1972	17.70	3.50	1.50	14.30	15.20	13.50	7.30	9.90	11.70	13.90	9.70	9.40		
1973	5.10	3.20	0.40	1.00	15.90	15.50	17.70	13.30	12.10	12.40	26.20	11.40		
1974	3.40	2.20	2.10	4.00	13.00	9.70	15.20	9.70	8.80	13.10	21.10	4.30		
1975	3.60	0.80	2.80	2.70	17.60	11.80	17.80	12.10	10.00	18.90	16.60	21.60		
1976	2.20	3.20	3.50	10.10	6.70	9.40	5.60	10.30	17.70	16.20	12.50	3.00		
1977	5.10	1.40	1.20	2.80	7.00	10.70	12.40	16.60	13.60	13.50	11.30	10.60		
1978	2.90	3.70	3.30	15.50	14.10	13.10	11.40	12.90	11.00	9.90	12.80	6.10		
1979	1.00	3.10	2.40	11.80	11.50	10.60	9.80	5.00	5.30	12.00	15.80	19.30		
1980	1.50	4.90	1.20	4.30	18.40	17.50	5.30	7.60	10.10	14.00	13.60	11.80		
1981	6.80	4.10	5.10	37.80	11.30	12.60	18.50	11.90	6.50	9.80	17.20	19.20		
1982	5.10	2.50	1.00	10.00	6.90	11.40	16.50	14.20	8.00	12.30	5.70	5.90		
1983	2.40	0.10	0.70	9.50	15.10	8.60	8.10	12.90	14.40	12.40	11.80	33.20		
1984	6.20	3.10	1.10	2.80	10.00	19.10	15.30	21.70	10.20	13.30	17.80	11.80		
1985	4.20	2.50	1.90	2.50	14.50	17.00	9.30	8.50	16.40	10.20	12.70	19.40		
1986	4.90	1.60	2.10	16.40	15.40	14.50	5.40	11.30	12.20	11.80	13.40	3.60		
1987	3.20	3.00	1.10	24.60	17.30	12.60	14.70	15.70	13.60	22.40	20.60	8.20		
1988	1.70	6.50	2.50	2.40	14.30	6.70	26.60	16.10	10.10	24.80	11.70	10.20		
1989	4.60	10.20	1.40	2.10	16.40	13.80	20.70	18.40	10.60	16.70	18.30	11.40		
1990	8.10	2.50	5.70	3.60	19.30	8.80	9.70	15.50	12.20	20.90	11.70	9.20		
1991	3.70	2.80	3.30	6.70	23.80	10.10	9.70	8.40	18.30	8.10	30.30	9.60		
1992	2.80	1.60	1.70	10.60	28.10	14.40	14.20	20.40	13.70	10.20	12.40	9.40		
1993	6.60	1.10	10.80	17.00	10.40	21.00	10.60	8.20	18.00	20.40	15.20	8.70		
1994	2.30	2.60	6.20	2.60	19.40	23.60	10.10	17.80	9.90	12.70	21.80	5.20		
1995	6.50	0.70	1.10	5.50	11.80	21.40	19.30	6.90	9.40	10.60	20.70	21.90		
1996	22.00	6.50	4.20	9.90	22.90	12.30	10.90	13.70	8.40	10.60	29.00	16.30		
1997	2.20	5.50	1.60	1.30	19.30	10.40	7.90	6.60	7.00	11.20	4.00	1.60		
1998	2.20	0.50	1.50	14.40	11.00	13.10	15.40	13.80	16.30	11.40	9.70	18.90		
1999	3.70	4.60	6.20	10.40	15.50	12.20	19.40	10.90	10.00	13.20	17.30	41.40		

	2000	9.70	3.00	3.70	6.00	14.00	20.40	10.10	14.80	5.60	17.90	12.50	31.00	
0	SITE NO.	13	GAMBOA (GAM)	DATA ECHO										
1911	0.11	0.71	0.38	4.01	14.53	6.98	7.26	7.68	5.20	12.75	10.09	0.97		
1912	0.06	1.11	0.10	0.77	7.94	11.64	14.27	16.64	12.75	13.60	6.56	3.63		
1913	2.65	0.68	0.08	1.07	15.13	8.02	8.06	16.45	9.48	8.71	14.13	1.82		
1914	0.64	0.23	0.03	1.38	10.28	17.78	3.91	7.97	11.50	9.79	7.70	6.15		
1915	1.74	2.75	0.02	7.09	5.10	9.01	8.03	4.51	9.91	15.93	9.96	7.00		
1916	2.16	1.53	0.90	6.68	12.25	8.44	9.59	12.22	11.37	13.46	9.84	4.75		
1917	0.09	0.30	0.26	3.96	8.14	7.82	17.75	12.62	9.93	11.21	22.05	8.31		
1918	3.07	0.07	0.54	3.16	11.45	10.12	6.51	8.59	7.60	17.25	5.86	1.25		
1919	0.55	0.21	0.03	7.02	5.82	6.02	6.70	7.37	9.39	11.72	3.50	3.69		
1920	0.05	0.10	0.21	1.48	7.59	7.48	14.71	8.97	12.68	24.93	13.63	3.05		
1921	0.09	5.39	0.09	1.16	5.89	12.81	11.33	15.68	10.48	11.83	6.96	4.42		
1922	8.11	1.42	0.09	0.24	15.04	9.09	6.12	7.20	8.74	11.82	6.58	6.65		
1923	1.01	0.14	0.03	0.31	12.59	14.56	8.57	9.42	10.84	25.56	10.50	0.81		
1924	0.07	1.85	1.32	4.10	10.50	6.58	6.80	15.40	11.13	8.82	20.17	4.85		
1925	3.35	0.18	0.27	2.81	6.82	6.61	7.77	12.99	11.38	9.63	12.34	3.85		
1926	0.04	0.18	0.02	0.00	5.74	14.00	18.00	13.30	11.94	9.08	7.32	9.08		
1927	0.36	0.78	0.06	7.84	8.36	12.34	11.98	8.27	7.44	7.53	7.42	3.76		
1928	0.34	0.22	2.75	3.06	10.21	8.32	5.95	8.37	10.15	11.68	15.52	4.79		
1929	0.31	0.01	0.94	0.75	9.95	7.68	9.01	12.88	7.75	14.00	9.00	3.03		
1930	0.29	0.90	0.12	7.45	14.07	6.26	10.13	9.39	7.24	9.21	5.84	0.84		
1931	0.11	1.88	2.46	3.80	9.18	12.76	12.34	6.74	10.80	6.47	19.05	5.18		
1932	0.48	0.10	0.13	9.97	8.35	14.74	7.22	10.38	5.76	14.18	16.72	3.18		
1933	1.21	0.01	0.24	0.11	11.60	11.85	5.87	9.83	10.49	7.31	16.47	9.87		
1934	1.94	0.62	0.11	4.73	10.83	8.15	5.18	9.25	12.60	19.91	14.33	5.67		
1935	0.63	0.75	0.03	3.10	11.64	9.25	20.67	13.21	11.59	7.74	31.25	4.65		
1936	0.18	0.09	0.37	2.93	14.61	9.84	9.57	7.37	10.04	22.45	9.20	2.10		
1937	3.80	0.80	0.02	1.56	6.99	7.52	7.21	9.92	13.42	11.05	16.59	24.67		
1938	0.88	0.29	0.96	1.69	17.56	13.58	13.02	12.07	9.55	14.70	15.66	12.73		
1939	0.12	0.04	0.09	0.08	5.56	9.34	6.81	7.42	9.03	8.23	18.06	9.35		
1940	1.40	0.43	0.24	0.50	10.55	8.12	6.66	13.47	10.37	14.99	9.09	0.88		
1941	1.30	1.46	0.24	0.92	5.95	9.75	10.01	6.21	9.84	9.80	6.42	7.65		
1942	0.73	0.48	2.66	2.57	10.99	11.06	8.10	8.66	8.39	19.23	7.65	14.26		
1943	1.73	0.80	0.41	3.08	13.70	12.83	4.58	5.35	7.97	7.81	17.98	12.84		
1944	0.59	0.12	0.05	2.50	10.27	5.62	6.45	14.43	8.48	15.12	8.16	4.48		
1945	0.25	0.02	0.06	4.70	9.54	4.22	13.61	11.68	9.42	8.76	12.33	6.66		
1946	0.55	0.07	0.37	0.64	7.27	6.55	11.99	5.57	7.29	7.99	9.83	7.25		
1947	0.10	0.69	0.19	1.43	6.63	7.24	9.77	10.56	11.52	10.04	9.88	3.29		
1948	1.90	0.00	0.09	0.44	14.17	5.79	9.89	6.86	8.82	12.13	15.00	1.87		
1949	0.01	0.01	0.48	1.74	7.52	12.42	9.89	9.46	7.19	11.77	15.53	3.89		
1950	0.29	0.38	0.80	1.97	9.26	13.22	13.94	8.05	7.59	6.40	17.09	6.84		
1951	0.58	2.00	0.29	3.93	13.50	4.71	9.37	6.80	4.15	8.37	9.72	7.35		
1952	1.24	0.47	0.06	2.52	11.50	13.06	8.37	4.16	7.58	15.14	4.95	9.50		
1953	2.12	0.34	0.14	3.75	11.52	5.10	8.07	10.34	4.94	11.20	10.10	4.11		
1954	1.37	1.42	0.76	3.84	8.24	7.32	20.74	14.10	7.56	7.59	15.62	1.88		
1955	5.23	0.65	0.23	0.31	9.57	13.95	6.49	9.06	6.38	5.87	14.30	5.77		
1956	3.61	0.93	0.59	1.01	13.87	5.75	11.28	6.95	5.46	17.40	10.04	4.06		
1957	0.00	0.03	0.00	0.21	12.24	9.29	9.16	9.39	15.49	15.28	11.02	1.43		
1958	1.59	0.21	0.56	2.17	12.81	7.86	6.96	8.69	8.69	11.03	6.67	2.36		
1959	0.29	0.00	0.00	1.88	12.62	5.55	6.70	8.90	9.03	8.13	9.76	10.79		
1960	2.59	0.68	1.48	3.56	8.57	13.74	12.51	9.19	8.09	13.37	9.49	11.29		
1961	0.27	0.30	0.21	5.92	4.43	15.05	-9.94	8.84	10.41	13.05	8.75	7.11		
1962	0.80	0.01	0.26	3.97	6.81	9.36	6.15	9.33	11.54	12.21	9.02	3.37		
1963	5.44	1.48	0.00	1.96	10.02	10.99	8.64	9.22	8.93	8.30	16.70	3.30		
1964	0.07	0.00	0.10	2.63	14.31	10.37	12.65	9.41	11.00	8.57	13.64	0.80		
1965	1.31	0.07	0.03	0.01	12.57	7.54	6.57	8.55	7.37	10.60	16.16	6.01		
1966	0.63	0.03	0.02	2.58	5.45	15.08	5.63	6.21	11.64	7.06	17.52	7.95		
1967	0.32	0.01	0.28	3.50	7.44	11.89	11.26	8.54	14.31	14.14	8.66	2.19		
1968	0.00	2.85	0.00	0.70	9.17	12.98	6.94	11.78	12.30	11.59	15.19	1.29		
1969	0.82	0.24	0.26	2.84	9.77	5.10	7.83	9.89	10.97	9.52	14.43	6.33		
1970	6.88	0.26	3.08	5.82	10.38	5.30	10.27	11.46	10.59	12.90	14.54	11.42		
1971	5.75	1.59	1.97	1.09	11.16	6.02	9.46	13.72	9.00	13.60	10.70	0.70		
1972	3.80	0.50	1.40	7.50	7.30	12.30	9.50	6.90	14.00	13.00	11.70	3.70		
1973	0.30	0.20	0.00	1.00	7.40	14.60	14.00	7.00	12.00	8.80	17.30	1.90		
1974	0.50	0.10	1.30	0.40	10.50	14.20	14.30	5.30	8.20	17.90	8.40	4.50		
1975	0.10	0.20	0.60	0.40	11.20	9.60	14.20	18.50	7.60	13.50	9.80	9.00		
1976	0.30	0.00	0.10	1.10	5.00	8.50	3.20	4.80	10.90	8.10	7.40	1.00		
1977	0.40	0.20	0.00	1.50	9.00	7.70	10.50	15.90	7.50	15.30	8.40	5.00		
1978	0.20	0.30	1.10	5.50	12.20	10.10	14.80	6.70	8.40	12.20	7.80	6.40		
1979	0.10	0.20	0.10	10.20	9.50	13.60	8.20	6.40	6.00	11.20	6.00	2.40		
1980	4.20	1.40	0.10	0.60	8.60	11.90	10.00	12.30	10.20	12.30	5.20	5.10		
1981	1.60	0.00	3.00	12.50	8.30	12.40	14.00	7.90	6.10	8.30	18.20	6.60		
1982	5.80	0.30	0.10	2.50	13.50	4.70	6.90	7.30	8.90	13.30	7.60	0.80		
1983	0.30	0.00	0.00	2.00	10.60	10.00	5.80	7.00	15.10	12.20	11.30	8.40		

1984	0.80	2.50	0.00	1.50	9.90	12.60	8.60	16.20	16.30	16.00	13.10	0.20
1985	0.50	0.30	0.70	0.30	11.50	10.20	9.20	7.60	13.80	5.90	4.40	6.20
1986	0.00	0.50	2.50	4.30	2.50	14.00	4.80	9.30	6.90	20.00	5.10	0.70
1987	0.00	0.50	0.10	7.30	8.10	11.30	11.30	10.30	10.80	10.70	7.80	2.90
1988	0.00	0.20	0.20	0.90	6.80	8.80	5.40	9.40	9.40	13.40	10.90	2.70
1989	0.10	0.30	0.00	0.00	4.20	8.20	9.50	11.30	9.20	15.80	16.90	3.60
1990	1.40	0.00	0.30	0.90	12.40	3.30	8.00	8.00	11.90	15.00	10.60	8.20
1991	1.10	0.00	0.80	2.70	14.20	11.20	11.00	10.80	15.00	14.40	7.30	1.80
1992	0.40	0.20	0.00	3.90	7.40	14.70	14.90	7.40	11.20	10.80	5.70	2.00
1993	4.30	0.20	2.60	5.00	6.40	14.40	9.10	8.80	20.60	15.30	13.40	3.30
1994	0.90	0.60	2.10	0.60	14.30	9.40	7.50	10.50	13.00	14.50	19.00	3.20
1995	0.70	0.10	1.20	4.80	15.60	17.00	20.40	21.20	13.10	21.10	28.70	8.30
1996	9.20	0.70	1.60	2.40	10.10	9.40	8.50	12.20	10.10	12.60	12.20	1.50
1997	0.50	0.20	0.10	0.50	12.50	6.00	9.50	7.20	5.30	15.10	10.00	0.60
1998	0.00	0.10	0.10	8.60	7.50	8.80	10.30	12.70	11.40	8.30	11.40	7.40
1999	1.30	4.00	1.40	3.80	10.80	10.90	3.80	11.20	14.70	8.60	12.00	14.70
2000	1.40	0.30	0.10	3.60	13.00	12.40	6.30	10.80	12.00	12.50	8.50	8.50

DATA ECHO

O	SITE NO.	14	GATUN (GAT)									
1911	1.20	2.19	1.80	6.38	19.14	14.72	6.66	7.91	4.33	16.92	15.78	2.25
1912	0.91	2.38	0.55	4.18	13.83	14.80	11.84	11.98	7.84	14.52	19.18	9.82
1913	4.63	2.92	1.01	5.38	17.06	10.70	9.73	12.32	9.95	15.17	15.88	8.06
1914	1.63	1.08	0.96	3.26	10.91	12.64	4.28	15.15	10.95	14.14	12.57	4.62
1915	1.80	13.17	0.90	15.90	10.24	12.66	18.23	12.31	16.12	19.55	18.28	7.23
1916	1.05	2.20	3.25	4.72	11.32	10.70	9.68	5.97	8.24	16.37	19.15	4.20
1917	1.11	0.62	0.52	9.84	15.14	12.41	17.80	17.81	12.20	10.05	30.94	11.59
1918	4.03	0.53	0.55	6.66	11.64	8.29	8.15	17.93	7.27	22.73	11.49	1.92
1919	1.42	0.54	0.59	12.04	7.16	12.54	7.86	9.07	8.42	17.46	7.19	6.62
1920	0.71	1.00	0.71	0.14	2.65	7.38	15.26	15.23	6.62	17.57	9.78	3.26
1921	2.01	2.74	0.79	4.69	14.08	13.23	13.17	19.73	13.71	9.09	21.04	9.03
1922	9.48	1.29	1.13	2.35	12.71	12.54	5.26	7.24	11.98	17.81	17.50	8.04
1923	2.26	0.55	0.46	1.57	10.18	11.55	8.70	15.53	12.11	39.76	15.31	6.74
1924	0.76	3.75	0.87	14.14	12.39	12.60	15.50	9.92	12.48	13.85	27.78	5.90
1925	3.01	1.09	0.72	8.17	8.33	8.99	14.37	7.64	14.03	12.23	20.78	5.61
1926	0.92	1.64	0.70	0.59	12.55	18.78	23.47	13.94	9.13	16.92	24.00	9.09
1927	5.69	2.53	2.62	8.04	16.58	11.27	13.61	14.75	9.73	11.39	17.78	15.96
1928	2.01	1.27	2.89	1.30	11.54	15.16	10.77	19.68	9.90	14.82	20.48	20.72
1929	0.75	0.54	1.94	1.43	11.92	10.75	7.59	19.22	8.42	15.67	15.08	5.51
1930	2.82	1.45	0.61	6.89	10.62	9.01	10.54	9.91	12.91	11.19	20.16	6.92
1931	2.65	1.68	3.94	7.10	16.37	8.86	17.18	13.67	4.77	17.77	31.91	2.37
1932	3.00	0.67	1.68	3.60	12.55	16.58	12.81	10.46	7.94	18.19	46.64	15.97
1933	2.61	0.20	0.98	0.31	8.64	17.67	12.88	4.96	11.87	16.54	41.52	21.67
1934	2.62	0.78	1.29	6.15	15.00	11.74	12.70	13.82	17.03	16.65	27.28	16.26
1935	4.78	2.93	0.75	2.44	11.34	15.33	21.66	15.90	13.44	11.00	44.21	19.48
1936	1.38	0.25	1.44	2.22	12.82	7.93	12.75	16.23	14.83	12.19	22.78	6.87
1937	5.19	0.73	0.54	1.73	18.80	13.92	11.89	16.24	7.94	18.19	46.64	15.97
1938	1.97	1.14	1.49	6.37	15.16	18.39	16.51	18.93	11.48	13.29	18.46	29.93
1939	0.70	0.39	0.81	1.45	4.70	18.89	6.04	13.03	13.67	15.03	35.32	18.37
1940	5.46	2.75	2.07	1.16	7.35	8.91	8.88	22.11	7.83	17.40	17.48	2.69
1941	4.20	3.76	2.65	1.17	8.43	9.16	14.60	13.83	14.15	26.81	20.50	4.51
1942	2.30	1.82	6.00	7.33	16.28	10.34	10.12	11.02	19.92	26.61	8.13	20.90
1943	1.90	2.69	3.44	5.88	18.43	11.37	9.29	12.84	16.36	13.10	19.98	15.04
1944	3.00	2.12	0.69	10.09	23.71	7.51	10.20	16.92	7.58	21.94	14.43	19.68
1945	2.86	1.03	0.78	1.54	14.54	7.72	15.26	17.93	11.17	17.20	32.36	23.43
1946	2.70	0.46	1.26	1.42	6.44	7.83	12.80	11.85	15.54	16.34	22.03	23.16
1947	0.81	1.13	0.84	5.66	7.90	8.81	13.74	10.05	9.13	10.69	10.38	11.35
1948	2.96	0.30	0.79	6.11	10.36	6.56	14.04	10.98	8.87	14.97	15.92	5.76
1949	1.30	1.48	0.62	2.44	10.45	21.03	10.62	15.55	9.34	17.79	29.74	16.19
1950	1.28	2.76	1.21	3.59	6.24	14.86	13.94	16.65	8.40	7.94	28.97	23.61
1951	0.85	6.71	1.08	9.41	12.42	8.54	7.99	9.19	9.65	17.69	12.90	11.09
1952	4.29	1.14	0.48	9.01	9.47	11.31	15.13	12.11	9.49	18.73	14.10	20.05
1953	5.46	1.06	2.40	5.99	12.97	2.97	19.36	12.37	7.70	19.56	15.77	9.26
1954	1.97	2.51	0.99	3.54	11.69	11.28	12.69	14.83	16.95	12.87	32.74	13.86
1955	11.56	1.23	1.55	0.71	14.32	14.04	6.96	11.24	7.55	12.91	20.46	13.53
1956	12.25	2.42	5.89	3.32	19.89	6.36	18.73	12.75	13.60	21.77	23.47	6.50
1957	1.28	0.42	0.66	0.25	9.75	10.98	9.05	13.93	17.50	10.01	21.27	7.45
1958	8.22	3.92	5.38	4.82	9.11	7.51	23.27	10.22	11.48	16.65	11.45	9.84
1959	2.32	0.15	0.41	4.19	10.81	9.49	11.48	10.64	17.27	7.85	15.67	21.80
1960	4.05	1.71	7.52	11.53	20.73	9.53	16.04	8.42	9.15	19.09	19.38	25.46
1961	1.03	0.34	0.91	6.65	9.58	16.72	8.15	15.81	8.57	20.40	19.14	5.96
1962	4.22	0.95	1.12	1.61	24.43	6.27	17.92	10.76	14.03	11.44	21.30	20.57
1963	7.15	2.20	0.57	4.70	16.10	7.43	14.32	14.69	8.53	10.18	21.81	4.09
1964	0.83	0.38	0.32	3.16	13.83	16.80	18.12	9.93	13.42	11.20	10.59	2.56
1965	5.61	1.33	0.20	1.70	14.46	7.05	4.88	12.95	11.68	24.00	33.66	7.50
1966	2.25	1.15	1.89	7.03	13.17	6.50	16.44	20.48	11.40	15.68	37.06	14.09
1967	1.44	0.37	0.91	4.94	7.63	19.37	18.35	9.47	7.92	13.86	25.90	9.94

1968	0.58	2.53	3.26	0.87	8.80	11.66	12.98	13.82	10.82	24.69	12.48	2.57
1969	3.22	1.65	1.12	2.10	13.70	9.23	15.94	17.39	14.05	14.51	14.44	18.71
1970	11.42	4.36	2.51	10.66	17.07	10.31	16.57	14.68	8.57	15.72	26.83	16.88
1971	5.31	2.47	3.43	0.68	13.93	12.58	10.87	16.82	12.66	10.70	11.69	0.74
1972	9.99	2.30	0.81	11.96	8.68	10.49	5.13	7.74	12.38	17.07	8.06	3.86
1973	1.81	1.83	0.20	2.30	7.40	8.80	7.20	9.70	9.20	11.60	22.60	7.80
1974	0.50	1.60	1.40	2.50	6.70	9.80	20.60	10.00	17.70	16.70	29.60	5.50
1975	1.00	0.50	3.20	0.90	11.30	13.30	12.70	17.90	13.40	16.90	13.60	25.00
1976	2.30	0.50	0.10	6.80	9.90	12.60	12.40	13.90	11.40	12.70	11.20	4.30
1977	1.70	0.90	0.20	4.20	7.60	12.10	5.80	12.90	10.20	15.20	9.20	2.20
1978	0.30	1.90	2.90	12.20	4.80	14.20	10.60	12.40	12.30	8.70	8.70	1.80
1979	0.60	3.00	0.40	10.30	14.80	14.40	10.40	16.50	9.80	12.10	10.40	10.30
1980	6.80	3.10	0.40	2.40	18.20	7.40	7.70	10.70	8.20	9.40	10.00	10.70
1981	7.90	1.90	3.90	13.80	16.70	9.10	14.20	13.40	6.80	13.40	42.40	19.00
1982	8.00	2.10	1.20	9.60	7.10	13.00	18.60	9.00	9.90	15.90	7.50	1.10
1983	1.40	0.20	0.00	6.00	15.20	9.60	10.40	11.10	11.20	10.40	9.10	16.20
1984	2.40	2.10	0.40	2.00	11.70	12.60	4.00	10.10	6.50	10.80	16.30	5.00
1985	6.80	1.30	0.80	0.70	8.90	10.70	13.00	10.10	11.80	10.20	13.40	13.30
1986	1.20	1.40	0.90	5.90	8.00	9.00	7.60	17.30	9.90	19.60	9.40	5.60
1987	1.20	1.80	0.20	10.00	20.70	10.60	18.30	17.60	20.90	22.60	14.20	10.60
1988	1.20	3.10	0.10	1.40	6.40	7.50	13.60	6.10	12.20	14.00	12.20	7.20
1989	0.50	2.10	1.20	0.70	4.70	6.30	13.30	12.60	4.40	20.00	16.70	5.00
1990	1.90	0.10	1.90	6.10	13.60	9.00	14.50	11.90	22.10	19.30	11.50	13.00
1991	2.30	0.80	4.40	2.60	16.70	9.00	5.30	10.00	17.00	8.60	22.60	1.80
1992	1.20	0.20	0.90	11.50	20.20	6.70	10.00	14.00	15.30	12.50	13.40	9.20
1993	4.80	1.90	3.10	13.80	6.40	9.40	12.70	10.80	16.50	12.80	15.50	10.30
1994	1.20	0.80	1.70	4.60	15.20	19.50	9.20	20.30	9.20	7.80	15.00	4.90
1995	10.40	0.50	1.80	4.80	12.30	9.70	15.90	10.10	6.70	13.80	21.10	15.30
1996	16.30	5.50	2.40	3.70	10.00	11.40	8.00	8.60	4.70	10.10	24.10	7.80
1997	1.80	0.60	0.00	0.40	9.50	4.60	4.60	6.30	18.20	8.40	8.50	0.80
1998	0.60	1.60	1.80	20.50	11.50	8.80	16.50	10.70	3.30	10.40	8.80	14.30
1999	4.00	2.10	5.90	5.40	10.30	9.50	13.60	20.10	7.40	12.50	15.70	27.30
2000	4.70	0.90	0.60	5.20	16.00	22.80	9.00	9.50	5.60	26.80	7.20	28.30

DATA ECHO

0	SITE NO.	15	GUACHA (GUA)											
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1948	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1949	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1950	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1951	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		

1952	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1953	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1954	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1955	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1956	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1957	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1958	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1959	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	27.53
1960	2.98	1.69	4.88	8.86	11.07	9.47	6.25	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	25.85
1961	1.18	0.20	1.42	8.52	3.57	7.65	7.63	13.26	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	4.76	13.16	7.44	9.30	14.03	6.61	8.97	8.97	8.97	8.97	8.97
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	1.53	-1.00	-1.00	11.33	3.32	3.18	11.52	9.81	16.07	22.15	22.15	22.15	-1.00
1966	2.78	1.20	1.87	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1968	0.14	2.80	1.89	0.56	12.32	5.57	3.40	13.10	5.58	17.12	12.80	12.80	12.80	1.86
1969	2.07	1.34	1.04	2.64	8.80	6.68	13.95	4.73	13.44	13.00	15.40	15.40	15.40	11.46
1970	9.81	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1971	4.03	1.39	1.76	0.37	8.05	9.90	11.30	6.90	7.40	7.10	-1.00	-1.00	-1.00	1.10
1972	8.30	1.00	1.50	5.90	4.70	14.20	2.40	4.40	8.10	14.80	4.90	4.90	4.90	4.30
1973	0.60	1.10	0.10	4.00	7.90	11.50	6.80	10.10	9.20	13.00	17.50	17.50	17.50	5.10
1974	0.50	0.70	0.80	2.60	5.00	7.90	14.80	6.10	8.80	15.40	19.90	19.90	19.90	2.20
1975	0.50	0.90	0.90	1.00	9.90	7.80	10.40	14.90	12.40	18.30	14.10	14.10	14.10	18.90
1976	1.70	0.70	0.30	9.30	7.90	9.70	6.00	7.30	8.50	10.30	6.90	6.90	6.90	3.00
1977	0.80	0.50	0.10	0.70	9.00	7.60	4.50	15.60	12.50	6.30	4.40	4.40	4.40	2.30
1978	3.10	0.70	2.90	9.20	5.90	5.70	9.90	10.00	8.40	8.40	14.20	14.20	14.20	1.50
1979	0.40	1.90	0.20	7.90	10.70	9.80	7.60	7.30	10.40	8.90	12.10	12.10	12.10	6.10
1980	6.40	2.50	0.20	3.60	8.30	8.60	10.80	9.10	5.40	9.60	12.20	12.20	12.20	8.20
1981	7.90	1.70	3.40	13.80	12.30	13.00	10.60	10.40	3.60	8.00	28.60	28.60	28.60	9.90
1982	6.80	1.20	1.20	5.40	10.40	9.90	10.60	8.00	9.30	13.30	4.70	4.70	4.70	0.80
1983	1.20	0.50	0.20	6.00	11.00	10.60	8.30	11.20	7.80	12.80	12.40	12.40	12.40	9.30
1984	1.90	2.00	0.50	2.30	10.50	9.80	3.80	13.50	4.60	9.50	16.00	16.00	16.00	3.30
1985	5.10	1.00	0.80	0.50	9.50	8.60	11.90	8.60	8.40	12.60	9.10	9.10	9.10	15.80
1986	1.70	0.90	0.70	8.20	5.00	8.30	7.40	8.30	9.80	16.70	5.00	5.00	5.00	5.00
1987	1.60	2.00	0.20	9.30	13.00	7.30	12.10	10.70	12.90	15.30	16.60	16.60	16.60	6.00
1988	0.70	1.40	0.10	1.80	5.60	9.30	8.00	9.10	11.00	20.00	16.50	16.50	16.50	6.90
1989	1.80	5.30	1.30	3.20	2.80	4.80	4.90	9.80	6.90	14.70	13.20	13.20	13.20	2.80
1990	0.80	0.10	0.40	0.70	13.90	5.30	12.20	9.50	20.10	11.40	9.40	9.40	9.40	9.70
1991	2.00	0.80	4.20	1.30	14.60	5.60	9.00	5.40	14.40	7.80	16.50	16.50	16.50	1.70
1992	0.60	0.20	0.50	10.30	11.90	7.60	9.10	9.20	18.50	7.50	11.20	11.20	11.20	7.10
1993	1.70	1.90	3.30	8.10	5.50	5.80	9.30	7.60	14.00	12.20	13.90	13.90	13.90	6.50
1994	1.40	0.60	1.90	4.50	14.10	10.50	6.10	10.20	5.80	6.10	17.90	17.90	17.90	3.20
1995	8.30	0.20	0.60	4.20	13.50	8.40	12.80	6.00	11.50	9.60	14.30	14.30	14.30	15.50
1996	12.50	4.90	2.90	4.20	8.40	10.20	9.00	6.60	11.00	11.40	16.20	16.20	16.20	4.80
1997	1.20	0.40	0.10	2.00	7.90	5.20	4.90	5.90	6.20	7.10	8.20	8.20	8.20	0.70
1998	0.60	0.60	1.50	10.70	11.20	10.90	9.70	9.00	3.10	6.50	4.10	4.10	4.10	12.70
1999	3.60	2.00	3.00	5.40	8.20	12.20	11.70	24.90	9.80	11.20	16.40	16.40	16.40	19.90
2000	2.90	0.50	0.10	2.80	11.80	16.00	8.50	9.60	7.20	18.80	10.80	10.80	10.80	23.90

DATA ECHO

O	SITE NO.	16	HODGES HILL (HHI)	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1949	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1950	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1951	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1952	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1953	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1954	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1955	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1956	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1957	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1958	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1959	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1968	-1.00	-1.00	-1.00	-1.00	-1.00	8.27	8.74	11.55	8.82	13.12	8.70	0.32		
1969	0.35	0.15	0.28	0.70	5.50	5.32	6.93	9.95	11.47	17.27	11.79	3.29		
1970	5.42	0.89	2.23	4.90	13.54	7.23	9.60	16.87	8.90	14.07	14.11	11.02		
1971	7.65	2.92	1.16	3.63	16.60	5.40	10.10	9.00	14.20	14.50	11.70	0.10		
1972	4.60	0.40	0.40	11.00	7.20	11.00	6.40	6.90	17.60	14.50	7.30	3.70		
1973	0.20	0.10	0.10	0.90	8.70	10.70	10.70	2.60	8.10	13.60	14.40	3.60		
1974	0.00	0.00	0.00	1.30	13.70	13.40	9.30	10.20	13.20	18.00	6.20	2.70		
1975	0.00	0.50	0.40	0.60	9.80	11.20	11.40	8.80	10.00	19.60	14.00	5.70		
1976	0.30	0.10	0.00	1.90	6.20	7.60	4.70	7.20	8.00	13.60	6.80	1.50		
1977	0.30	0.40	0.20	0.40	9.90	7.80	8.60	9.40	5.40	14.70	9.60	3.20		
1978	1.10	0.20	0.60	5.50	7.20	9.40	9.10	7.70	9.30	15.50	15.60	3.40		
1979	0.10	0.00	0.10	9.00	11.00	9.90	9.60	11.10	5.00	21.30	6.70	3.10		
1980	2.20	0.60	0.00	0.60	7.10	13.10	8.60	12.10	8.70	9.10	12.00	3.40		
1981	0.70	0.00	1.60	11.70	10.70	16.60	9.20	7.00	9.70	6.50	14.00	5.70		
1982	2.50	0.10	0.00	1.90	11.60	4.60	8.70	8.00	12.90	13.90	5.10	0.10		
1983	0.10	0.00	0.20	1.70	9.70	9.50	7.80	5.90	12.40	11.60	11.20	7.50		
1984	1.40	2.20	0.20	1.60	5.20	10.20	10.10	14.00	12.50	17.80	6.90	0.40		
1985	0.40	0.20	0.50	1.20	8.80	17.40	10.60	9.20	12.00	8.10	7.70	3.30		
1986	0.10	0.00	3.50	6.60	2.00	13.30	6.40	9.40	11.00	23.80	8.60	0.60		
1987	0.00	0.20	0.40	6.30	6.70	13.40	9.40	14.60	16.10	10.70	11.60	5.90		
1988	0.10	0.10	0.20	0.90	11.60	14.50	7.40	12.90	10.60	20.70	11.80	6.00		
1989	0.60	0.50	0.20	0.00	6.00	9.50	8.40	12.00	5.20	10.20	13.50	4.30		
1990	1.10	0.10	0.30	3.20	10.70	4.80	16.10	14.20	10.40	15.80	5.80	6.20		
1991	0.70	0.00	1.00	4.50	14.70	11.60	9.00	14.20	18.00	16.50	8.80	3.40		
1992	0.10	0.10	0.00	3.50	6.40	20.40	6.80	8.60	9.80	14.90	7.60	3.00		
1993	2.70	0.10	0.50	3.90	7.40	18.60	10.30	11.10	14.80	13.90	11.30	5.00		
1994	0.60	0.00	2.50	2.10	11.80	9.80	5.00	10.30	9.10	15.80	15.20	0.50		
1995	0.20	0.30	0.40	6.10	10.40	15.00	11.10	8.70	5.60	10.00	16.30	1.00		
1996	5.20	0.80	1.10	1.70	13.30	6.60	10.20	8.20	7.60	11.80	10.00	4.20		
1997	1.00	0.10	0.00	1.00	7.00	5.00	10.30	7.60	9.60	11.10	6.70	0.10		
1998	0.00	0.00	0.10	1.40	12.90	11.40	11.80	16.50	8.30	9.40	13.60	12.10		
1999	1.00	2.60	0.50	4.00	6.90	14.50	5.50	9.10	15.90	11.50	10.30	9.80		
2000	3.60	0.20	0.10	4.50	10.20	11.20	6.10	10.10	11.30	12.30	3.90	6.50		

DATA ECHO

0	SITE NO.	17	LAS CASCADAS (CAS)
1911	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00

1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1949	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1950	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1951	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1952	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1953	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1954	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1955	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1956	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1957	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1958	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1959	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	0.40	0.89	5.05	8.26	8.21	11.29	11.49	10.53	15.30	-1.00	3.26	
1968	0.03	1.45	-1.00	-1.00	-1.00	-1.00	8.18	10.74	7.12	13.46	10.47	3.92	
1969	0.85	0.44	0.37	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1970	-1.00	-1.00	-1.00	0.13	9.70	7.90	10.30	13.30	9.10	16.80	-1.00	-1.00	
1971	-1.00	-1.00	-1.00	1.00	12.70	6.20	10.10	-1.00	11.60	17.00	-1.00	0.00	
1972	3.40	0.90	0.70	5.60	8.80	13.80	3.10	7.40	13.00	11.60	7.80	2.60	
1973	0.10	0.10	0.10	1.00	7.20	11.00	7.80	6.20	10.50	7.50	14.20	3.70	
1974	0.20	0.10	1.60	0.30	14.60	9.50	7.40	9.90	9.50	12.70	7.10	3.60	
1975	0.20	0.20	0.70	0.40	10.50	7.80	11.10	9.80	8.40	13.60	11.70	7.20	
1976	0.20	0.00	0.30	2.70	5.20	9.40	3.00	7.40	12.20	7.90	5.50	1.40	
1977	0.30	0.10	0.00	0.40	8.70	7.00	8.70	11.70	5.60	14.50	10.50	4.90	
1978	0.20	0.20	2.20	7.30	9.40	12.00	10.80	7.30	8.80	13.80	11.80	3.90	
1979	0.00	0.10	0.00	6.40	9.90	12.20	7.30	7.70	4.20	14.30	14.10	2.00	
1980	2.40	0.50	0.20	0.60	9.60	10.40	8.00	11.00	9.60	6.30	9.20	6.60	
1981	1.00	0.10	2.70	13.60	8.50	13.20	9.30	7.30	6.40	7.90	15.20	5.70	
1982	4.20	0.10	0.00	2.70	12.60	6.00	7.30	7.80	9.80	12.20	7.20	0.50	
1983	0.30	0.30	0.40	2.80	11.00	10.20	5.70	6.40	15.90	8.80	10.80	5.90	
1984	0.90	2.00	0.10	1.30	7.70	9.50	6.90	12.50	12.80	16.90	11.20	0.40	
1985	0.10	0.20	0.60	2.30	14.60	11.70	7.40	6.70	16.00	5.40	5.50	5.10	
1986	0.10	0.40	3.60	5.20	3.80	12.70	7.20	10.10	8.80	22.80	8.40	1.50	
1987	0.10	0.30	0.00	7.30	6.70	11.70	10.00	13.00	13.70	9.80	8.70	3.90	
1988	0.00	0.10	0.20	1.70	15.40	14.60	9.80	17.80	14.10	23.50	14.40	6.40	
1989	0.80	1.10	0.30	0.00	12.80	18.40	18.40	18.10	8.90	18.10	22.50	8.90	
1990	2.10	0.00	1.20	1.40	16.80	6.40	12.40	12.20	12.20	18.50	10.80	6.50	
1991	1.50	0.20	2.00	3.60	19.00	15.40	12.80	18.20	19.00	17.10	14.60	1.70	
1992	0.10	0.10	0.10	5.80	8.60	21.40	15.30	11.40	10.00	16.40	10.60	2.50	
1993	4.50	0.10	1.50	5.00	12.10	23.60	14.00	11.60	23.60	17.80	14.60	4.40	
1994	1.30	0.50	2.00	0.90	11.60	9.70	7.50	10.50	9.90	14.10	16.70	2.30	
1995	0.40	0.10	1.20	7.10	10.90	12.70	10.10	8.10	7.80	10.00	17.10	5.20	

YEAR	8.30	0.90	1.10	1.90	12.20	9.00	10.50	9.20	11.50	9.40	10.70	2.00	
1997	0.60	0.00	0.00	1.20	13.00	7.40	9.30	11.10	5.80	10.20	8.70	0.20	
1998	0.00	0.00	0.00	2.90	7.90	10.20	11.10	12.60	11.30	9.40	13.20	8.20	
1999	1.90	3.90	1.50	2.80	13.00	12.50	4.00	10.40	17.40	8.50	11.70	15.00	
2000	2.10	0.10	0.40	4.20	11.80	11.40	6.40	9.40	12.90	13.90	8.40	7.60	
DATA ECHO													
O SITE NO.	18	LAS	RACIES	(RAI)									
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1912	1.38	1.15	0.28	3.03	11.79	11.80	11.80	7.68	11.36	16.80	20.36	5.61	
1913	3.45	1.80	1.11	2.52	17.73	11.20	8.36	13.39	11.30	11.86	10.43	4.12	
1914	1.57	1.16	0.71	3.16	13.58	9.61	2.42	4.97	15.03	16.93	15.00	5.61	
1915	2.46	8.88	1.15	9.27	8.51	13.01	13.61	8.38	10.14	11.41	11.65	8.42	
1916	2.03	2.81	2.77	4.93	12.09	7.50	13.26	10.37	8.57	17.60	13.66	3.16	
1917	0.58	0.45	0.47	4.18	11.64	9.45	11.59	16.35	8.44	10.03	28.84	9.14	
1918	3.96	0.37	0.39	4.75	15.10	5.39	4.78	5.81	9.04	15.71	7.73	0.91	
1919	2.47	0.34	0.38	6.34	7.28	12.30	5.67	6.78	8.44	15.85	7.56	5.64	
1920	0.60	0.40	0.94	1.13	9.31	10.63	10.08	10.82	6.12	24.06	9.10	2.51	
1921	1.52	1.35	0.52	2.16	6.24	10.16	12.99	17.00	11.49	12.29	13.98	10.70	
1922	4.81	0.94	0.07	1.64	15.71	8.00	3.62	13.29	10.37	16.01	16.79	11.04	
1923	3.88	0.46	0.57	1.62	12.28	13.36	4.49	-1.00	-1.00	-1.00	-1.00	-1.00	
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1941	4.00	-1.00	-1.00	-1.00	-1.00	-1.00	10.46	9.56	11.53	8.04	13.28	8.80	4.09
1942	3.05	1.90	2.15	3.51	13.87	7.14	6.01	11.81	15.07	17.29	6.50	11.94	
1943	1.73	1.85	2.02	9.22	17.26	15.46	8.16	7.42	12.02	11.05	12.63	11.72	
1944	1.25	1.60	0.06	5.58	14.45	10.61	8.69	11.69	8.73	16.45	9.98	13.52	
1945	1.92	0.24	0.24	1.33	11.54	9.01	7.85	7.97	8.90	6.79	17.58	11.83	
1946	1.69	0.13	0.96	2.23	5.50	5.38	9.89	8.05	10.21	8.43	10.75	10.96	
1947	0.22	0.68	0.41	0.42	6.16	11.27	9.90	6.05	11.21	15.66	5.65	5.50	
1948	1.62	0.33	0.60	0.25	9.92	7.75	9.71	8.43	8.69	8.03	13.95	4.12	
1949	0.31	0.28	1.32	0.48	7.14	9.90	10.40	11.12	5.23	16.30	21.21	9.73	
1950	0.19	1.06	0.77	2.94	9.22	8.46	12.13	10.09	11.50	11.41	18.82	13.60	
1951	0.61	3.28	0.30	5.67	7.01	3.41	5.08	4.07	11.25	16.51	9.18	6.20	
1952	2.95	1.28	0.12	2.27	6.05	6.10	5.96	7.01	4.94	21.48	10.43	10.45	
1953	4.91	0.46	0.81	1.14	9.52	5.93	11.24	6.95	11.52	13.80	14.87	5.60	
1954	1.57	0.82	0.73	2.46	10.05	8.43	6.65	6.44	8.11	10.77	12.01	6.54	
1955	9.18	0.72	1.20	0.82	10.86	8.53	8.18	13.90	14.19	13.38	21.74	10.44	
1956	5.53	2.10	3.72	4.26	12.21	6.52	13.50	5.56	6.57	14.03	14.25	4.02	
1957	0.48	0.18	0.09	0.00	9.84	7.91	10.25	9.92	6.39	10.93	9.05	9.47	
1958	3.19	3.63	2.60	5.59	5.92	4.84	12.75	10.44	8.43	13.29	4.93	4.39	
1959	1.08	0.06	0.20	3.60	8.20	16.94	8.31	8.39	10.92	12.37	10.67	19.91	
1960	0.43	0.59	3.89	9.32	10.99	11.72	3.37	7.62	6.96	12.41	11.74	21.19	
1961	0.66	0.14	0.09	3.40	6.07	9.04	7.64	13.12	8.08	12.14	11.14	7.77	
1962	-1.00	-1.00	-1.00	1.42	7.82	8.00	7.74	6.15	9.87	6.43	8.59	5.81	
1963	4.65	0.52	0.40	-1.00	-1.00	-1.00	-1.00	-1.00	10.34	18.61	-1.00	-1.00	
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	9.60	0.70	
1965	4.88	0.23	0.00	0.00	9.40	6.35	7.12	-1.00	-1.00	11.60	20.80	3.83	
1966	0.94	0.29	0.58	3.26	9.92	10.64	9.85	13.67	8.50	9.82	26.14	17.05	
1967	1.18	0.05	0.77	5.45	5.11	9.98	9.98	7.58	8.76	9.56	14.75	2.88	
1968	0.00	2.32	1.39	0.53	11.73	6.35	5.85	8.13	5.69	10.99	7.85	1.20	
1969	3.03	1.28	0.49	4.17	13.01	6.87	10.06	4.93	12.56	10.58	14.25	9.61	
1970	6.46	0.45	3.21	2.66	10.92	-1.00	-1.00	-1.00	-1.00	7.61	20.37	-1.00	
1971	3.12	1.92	2.61	0.02	11.95	8.00	9.50	8.80	12.20	7.00	11.20	0.40	
1972	4.50	1.00	2.20	11.20	6.40	9.50	2.10	5.60	11.00	10.40	6.50	5.80	
1973	1.10	0.40	0.30	2.50	5.00	9.10	7.30	10.40	10.70	14.50	20.50	3.50	
1974	0.00	0.20	0.90	1.40	7.30	4.40	11.50	12.70	10.70	12.40	18.40	3.80	
1975	0.10	0.30	1.10	0.40	7.30	10.40	5.50	17.10	6.40	15.70	13.50	14.00	
1976	1.00	0.20	0.10	4.60	7.30	7.00	3.70	6.70	17.50	9.50	7.60	3.50	
1977	0.90	0.30	0.00	0.00	7.30	7.40	6.10	12.80	8.60	11.60	11.30	4.40	
1978	2.60	0.60	3.60	12.20	5.90	10.10	7.70	8.30	9.10	7.40	6.80	2.00	
1979	0.30	0.90	0.10	5.50	8.20	8.70	6.20	12.20	9.70	12.10	12.10	5.00	

1980	4.40	0.60	0.00	2.20	11.00	9.00	10.70	11.20	6.40	8.00	10.00	5.00
1981	4.50	0.60	1.10	14.10	10.70	11.00	12.30	6.80	3.10	7.20	19.20	11.40
1982	5.30	0.50	0.90	5.30	9.00	6.50	4.30	3.90	7.30	15.20	5.50	1.60
1983	1.30	0.10	0.60	2.30	13.80	12.00	8.20	7.90	9.40	10.10	7.40	8.60
1984	2.90	1.80	0.30	1.40	11.80	6.30	4.00	14.00	5.10	9.80	12.60	2.10
1985	3.80	1.60	0.20	0.20	9.40	11.60	6.30	8.10	8.90	7.30	9.00	12.90
1986	1.10	0.40	0.40	11.20	7.10	6.90	7.00	6.20	10.80	13.20	5.90	2.90
1987	1.30	2.00	0.00	6.90	16.00	5.10	8.60	10.50	12.40	14.90	7.20	4.80
1988	0.30	1.00	0.10	2.50	8.00	14.60	6.50	12.50	16.20	8.30	12.60	4.50
1989	0.30	0.00	0.10	0.60	4.30	4.60	4.70	8.40	11.90	14.90	14.00	4.40
1990	0.50	0.10	1.40	2.80	11.00	5.70	9.80	6.00	11.00	16.00	8.40	10.10
1991	1.40	0.70	4.80	1.90	18.80	6.70	8.90	4.60	13.00	13.10	13.60	2.80
1992	0.40	0.90	0.20	6.40	6.30	10.00	9.60	9.30	10.40	8.00	11.70	6.20
1993	2.60	0.20	3.10	7.20	8.10	10.90	5.10	7.90	14.20	14.30	10.40	5.70
1994	2.40	0.60	1.90	3.00	12.10	7.70	1.00	7.40	8.50	6.00	13.40	2.20
1995	6.00	0.10	1.10	3.50	7.70	12.00	13.70	5.30	6.80	9.10	11.80	7.40
1996	14.60	5.60	2.70	3.50	17.80	8.30	6.90	7.70	11.10	7.20	9.70	4.70
1997	0.80	1.30	0.00	1.30	5.60	5.00	6.20	7.50	5.40	4.80	3.40	0.50
1998	0.30	0.90	0.90	8.60	13.90	10.60	10.40	11.40	6.30	18.80	5.50	15.70
1999	3.10	1.60	3.70	2.80	6.60	13.60	7.30	15.80	15.20	10.10	16.20	16.00
2000	3.90	0.80	0.10	2.40	8.50	19.50	7.80	8.10	5.10	14.80	8.00	21.20

DATA ECHO

0	SITE NO.	19	LOS CANONES (CAN)											
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	20.47	18.64	11.41		
1948	2.52	0.37	0.34	0.70	14.54	5.83	16.71	18.39	11.13	10.24	20.98	5.20		
1949	0.52	0.37	0.49	4.56	14.00	15.34	7.46	18.00	20.68	13.19	18.77	12.33		
1950	0.97	2.16	0.60	4.50	12.20	15.25	20.49	9.66	17.00	12.52	28.43	16.17		
1951	3.18	5.43	0.79	6.13	9.48	7.23	9.57	5.82	21.00	13.65	11.39	7.91		
1952	3.44	1.44	0.42	3.77	13.63	7.82	6.37	8.08	13.21	14.74	8.85	13.92		
1953	11.92	0.37	1.51	4.19	16.07	6.89	7.04	10.92	18.94	15.12	23.49	7.50		
1954	2.20	1.72	0.83	6.37	21.55	23.82	18.85	15.65	25.44	13.70	19.24	6.57		
1955	12.46	1.99	2.40	1.64	15.32	17.51	11.68	16.15	16.70	13.84	20.01	10.80		
1956	12.45	2.53	4.05	5.28	16.98	10.17	17.97	8.64	12.46	17.95	11.47	4.46		
1957	1.65	0.40	0.64	0.27	12.71	8.62	12.06	13.32	9.82	16.19	8.36	10.32		
1958	5.99	4.43	5.10	2.50	13.61	14.43	12.30	9.17	11.16	14.05	5.77	7.18		
1959	1.02	0.09	0.31	2.91	7.24	14.26	9.67	-1.00	-1.00	-1.00	-1.00	-1.00		
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00		

1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1971	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1972	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1973	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1974	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1975	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1976	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1977	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1978	-1.00	-1.00	3.30	11.80	11.80	5.70	14.50	15.40	13.60	11.10	10.90	1.40		
1979	0.80	1.60	0.20	10.80	9.10	9.40	12.80	10.60	9.90	6.50	8.10	7.60		
1980	6.50	2.50	0.40	2.00	12.50	13.80	12.40	12.20	4.70	14.10	10.90	8.80		
1981	6.30	2.70	6.40	12.30	12.70	14.10	11.90	9.90	7.80	21.00	14.20	9.80		
1982	6.30	1.20	0.80	3.30	7.50	10.20	5.70	7.70	8.10	16.10	5.80	1.40		
1983	0.80	0.30	0.20	1.80	9.10	7.10	9.80	8.80	13.80	9.10	13.30	10.30		
1984	3.20	5.40	0.80	2.20	9.10	11.00	5.70	16.60	15.80	17.80	8.70	2.80		
1985	5.00	0.80	1.00	0.60	6.80	10.50	8.00	10.20	11.80	6.70	7.60	4.90		
1986	1.10	0.30	0.40	7.70	9.10	3.40	6.10	1.40	10.90	8.40	6.80	0.90		
1987	0.50	0.50	0.20	4.00	10.10	3.20	5.00	7.40	26.40	26.30	13.50	13.60		
1988	0.40	1.20	0.10	1.70	12.20	10.90	8.90	15.20	14.50	12.20	10.40	7.00		
1989	0.60	2.60	2.00	1.40	6.90	8.00	12.20	14.00	13.00	14.80	10.20	8.20		
1990	5.10	0.30	2.30	3.10	12.50	7.80	7.50	8.20	16.60	14.60	10.40	9.00		
1991	0.80	1.20	3.40	2.20	13.50	6.60	8.20	4.80	11.70	8.80	11.10	5.80		
1992	1.90	0.90	0.40	6.10	16.10	9.60	6.40	12.00	9.10	9.60	14.10	5.50		
1993	3.00	0.80	3.50	7.90	15.10	13.50	4.50	5.10	15.80	14.90	14.90	6.10		
1994	0.60	0.10	0.20	0.00	5.90	13.20	2.70	8.10	7.10	14.80	12.30	1.60		
1995	4.30	0.60	0.90	5.40	12.40	15.50	8.70	14.70	11.40	10.60	11.40	10.50		
1996	13.80	4.10	4.20	2.10	13.70	10.60	8.10	8.90	15.30	19.40	13.40	6.40		
1997	1.40	1.50	0.00	1.00	8.00	11.60	6.80	5.50	9.90	6.00	5.10	0.70		
1998	0.60	2.00	2.30	7.60	8.20	13.50	11.40	5.90	6.00	8.40	12.00	14.20		
1999	4.50	2.30	3.50	8.40	8.30	9.70	7.00	19.90	14.60	12.90	18.20	20.90		
2000	9.30	1.40	0.50	4.30	11.00	14.70	8.60	12.10	9.10	13.30	8.10	11.30		

DATA ECHO

0	SITE NO.	20	MONTE LIRIO (MLR)											
1911	0.89	2.41	1.41	5.27	19.70	11.43	10.58	9.58	11.19	18.46	20.05	2.30		
1912	2.14	3.32	0.24	1.29	8.34	13.51	11.60	8.15	9.39	21.17	16.35	5.24		
1913	3.57	2.52	0.60	3.54	16.29	10.71	8.70	10.42	14.12	14.90	15.02	7.19		
1914	0.83	1.55	1.19	4.44	11.42	14.55	3.54	16.85	15.38	18.17	14.32	5.02		
1915	2.54	6.57	0.76	12.19	11.17	10.40	15.73	12.47	14.87	17.78	24.27	10.16		
1916	0.75	2.60	2.66	4.73	8.41	11.81	9.64	10.50	9.88	17.29	18.42	6.49		
1917	0.68	0.55	0.75	3.81	11.24	14.50	13.93	12.83	14.10	10.04	27.04	9.97		
1918	3.92	0.76	1.34	4.20	14.51	9.43	7.83	11.82	12.10	23.57	15.37	1.04		
1919	4.03	1.15	0.59	11.66	5.20	8.16	9.37	10.17	15.48	15.84	9.09	7.73		
1920	0.37	0.71	0.78	0.08	6.34	7.86	13.61	14.27	9.12	18.30	10.39	3.32		
1921	3.32	2.93	0.26	6.63	9.76	15.23	15.50	15.41	15.69	9.28	22.26	8.87		
1922	6.69	1.35	0.21	1.41	12.29	9.98	5.66	6.95	13.78	16.57	10.80	5.74		
1923	0.88	0.47	0.80	1.54	9.13	10.32	6.83	14.04	9.68	42.22	21.79	2.17		
1924	0.69	4.64	1.35	12.47	11.17	13.63	14.62	8.86	17.03	14.82	22.76	7.49		
1925	1.97	1.76	0.64	4.00	4.06	10.17	14.23	7.25	13.42	23.43	16.65	4.19		
1926	0.37	2.05	1.08	0.57	10.42	26.75	18.21	19.92	8.27	17.39	26.82	11.68		
1927	4.06	1.25	3.82	9.21	17.56	15.66	17.52	16.51	12.43	12.14	25.41	11.70		
1928	2.18	1.72	3.28	0.88	8.88	13.90	8.05	22.06	13.76	13.44	18.83	15.06		
1929	0.73	0.61	4.18	2.61	9.06	14.58	8.52	20.46	5.22	15.49	15.72	6.00		
1930	2.33	0.61	0.46	4.26	15.39	6.51	7.72	7.76	8.92	5.60	19.52	8.15		
1931	1.46	1.38	7.72	3.95	14.49	13.85	16.18	10.13	8.47	11.57	27.41	1.35		
1932	1.49	0.91	2.29	2.51	12.58	12.06	12.40	9.85	5.81	12.87	39.69	13.53		
1933	1.22	0.23	1.08	0.04	9.57	12.81	7.49	8.45	10.40	8.32	34.97	17.34		
1934	2.02	0.96	2.64	7.77	15.37	6.10	9.69	16.30	19.00	16.59	20.87	17.10		
1935	2.82	3.32	0.60	4.29	10.46	9.36	22.06	13.37	12.85	10.10	41.50	20.83		
1936	1.32	0.14	1.02	1.78	9.70	6.30	8.88	18.40	13.46	20.00	14.00	4.61		
1937	3.10	0.25	0.57	1.90	13.34	10.27	10.67	12.50	12.80	22.00	21.25	25.23		
1938	1.44	0.83	1.20	2.63	14.85	17.29	15.39	17.57	10.36	13.11	11.14	21.86		
1939	0.35	0.13	0.40	1.18	4.68	12.31	10.74	9.68	16.34	16.93	32.64	11.27		
1940	4.82	2.22	1.45	0.61	7.23	9.39	9.83	18.05	10.97	14.67	17.95	3.34		
1941	2.59	2.90	2.21	3.42	7.44	13.33	12.56	15.20	14.68	23.76	16.61	2.99		
1942	2.58	1.13	4.75	6.30	12.06	13.47	10.87	8.37	14.03	23.07	9.81	26.00		
1943	1.12	2.41	1.86	0.68	20.56	15.42	6.50	10.68	13.40	12.52	19.08	12.25		
1944	2.00	1.49	0.30	7.25	14.61	10.93	9.58	21.30	5.90	23.24	11.05	15.67		
1945	2.20	0.31	0.66	1.17	11.75	7.27	6.43	12.08	11.83	11.81	23.15	27.99		
1946	0.68	1.09	1.91	0.86	13.21	3.78	12.86	9.25	11.67	8.73	17.14	14.25		
1947	0.00	2.30	1.49	2.90	7.03	13.13	12.94	11.76	10.29	11.04	7.81	6.90		

1948	2.46	0.23	0.29	0.43	7.34	4.69	9.75	11.14	9.35	9.72	13.41	3.38
1949	0.21	0.04	0.00	0.27	9.84	18.58	10.59	10.10	6.50	18.90	32.88	11.90
1950	0.35	2.24	1.15	2.81	5.45	14.27	14.93	11.76	6.79	13.51	26.86	20.79
1951	1.92	4.59	0.69	9.53	12.50	8.84	8.72	7.48	9.21	19.78	17.46	11.99
1952	2.65	0.58	0.30	5.40	13.95	9.02	11.22	11.35	10.01	15.53	9.48	21.98
1953	5.83	0.49	1.88	3.18	8.25	4.33	18.04	14.24	4.36	20.19	16.74	6.45
1954	0.98	1.29	0.74	2.09	8.68	11.36	12.94	9.99	9.28	10.10	19.24	7.67
1955	8.74	0.73	0.37	0.84	12.14	11.66	8.34	12.07	9.27	12.33	21.31	13.63
1956	6.60	1.49	3.23	2.79	15.38	4.97	17.65	13.89	12.38	20.43	16.84	2.94
1957	0.42	0.58	0.19	0.14	6.30	12.39	6.53	21.71	13.25	9.56	17.23	6.77
1958	4.18	7.38	2.31	7.33	8.46	9.64	11.21	8.62	9.58	15.71	8.45	9.68
1959	1.15	0.19	0.19	4.82	7.91	9.00	11.25	13.40	14.52	7.04	9.08	30.01
1960	2.46	1.46	-1.00	12.32	17.63	-1.00	-1.00	-1.00	-1.00	25.78	18.47	22.21
1961	0.83	0.02	0.15	4.08	3.87	17.82	7.23	14.89	9.89	17.22	12.22	5.25
1962	2.23	0.89	0.48	3.62	18.50	9.57	14.91	11.28	12.19	10.69	15.43	13.27
1963	6.24	2.17	2.41	5.00	9.19	10.33	14.17	16.20	7.39	11.93	11.36	2.50
1964	0.00	0.00	0.00	2.41	-1.00	-1.00	-1.00	-1.00	11.41	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	2.01	8.90	7.92	7.33	10.24	11.17	19.64	30.28	7.17
1966	2.85	-1.00	1.09	5.30	12.20	6.35	10.85	14.91	10.02	10.29	26.03	17.93
1967	-1.00	-1.00	0.78	2.81	7.57	13.66	14.43	8.37	6.42	17.33	22.05	5.12
1968	0.05	1.44	3.22	0.31	10.51	9.30	6.06	17.08	12.85	20.39	11.36	2.91
1969	1.80	0.18	0.76	1.71	14.02	5.75	17.01	11.27	19.06	12.51	12.28	17.56
1970	10.85	2.09	1.56	-1.00	14.73	7.02	13.23	14.51	10.20	12.30	20.90	16.40
1971	4.97	0.50	-1.00	-1.00	14.90	11.00	9.80	17.10	7.40	-1.00	12.00	0.80
1972	11.80	1.50	0.20	5.80	6.10	6.70	4.80	8.10	10.40	14.80	8.50	6.60
1973	4.00	0.50	0.00	0.80	4.30	9.60	13.60	12.30	14.10	13.40	23.40	6.70
1974	0.00	0.70	0.80	1.20	5.60	11.00	14.90	9.00	12.80	21.10	15.50	4.60
1975	0.10	1.00	1.30	0.30	8.70	10.00	9.40	17.30	16.00	18.10	11.90	19.50
1976	1.20	0.20	0.00	2.50	8.10	10.50	5.60	9.30	9.90	12.20	9.60	0.40
1977	0.90	0.00	0.40	1.30	6.70	8.10	5.70	20.10	8.80	19.40	20.10	4.20
1978	1.40	1.00	4.00	9.80	6.50	15.60	13.20	13.40	7.70	12.40	12.20	1.50
1979	0.10	0.70	0.20	6.80	12.60	10.60	9.60	12.10	8.00	10.30	13.00	6.00
1980	4.80	2.20	0.20	1.20	14.00	5.90	8.50	9.00	5.30	10.70	9.80	7.70
1981	11.10	0.90	4.50	10.20	18.50	12.70	9.20	13.10	7.10	9.80	38.10	14.90
1982	7.60	1.90	0.80	7.30	9.50	6.00	8.30	4.60	11.90	16.40	7.20	3.30
1983	0.60	0.00	0.00	5.00	10.90	9.10	6.70	7.80	10.60	12.40	11.50	13.20
1984	2.20	2.60	0.20	0.90	11.60	9.00	6.30	14.90	7.90	12.10	18.20	1.50
1985	2.70	2.20	1.40	0.80	13.30	7.80	11.00	11.80	9.40	14.30	8.70	16.30
1986	2.40	0.60	1.80	4.60	4.40	11.50	7.40	14.50	10.30	18.00	8.80	3.50
1987	0.60	1.50	0.10	13.70	17.80	7.50	13.60	14.80	15.90	20.90	10.80	9.70
1988	0.10	1.30	0.20	1.30	5.60	7.00	7.60	11.10	14.50	16.40	14.10	6.30
1989	0.40	1.00	0.30	0.70	9.40	6.60	13.00	11.80	5.30	20.30	18.40	2.70
1990	0.90	0.30	2.10	6.20	11.20	9.50	11.80	10.70	22.30	23.60	9.80	12.10
1991	0.80	1.20	5.10	1.60	10.70	8.90	15.40	7.90	17.70	6.50	23.60	2.50
1992	0.60	0.30	0.40	8.20	17.20	10.60	12.20	11.50	14.80	12.70	13.10	6.70
1993	4.60	1.20	5.00	11.60	9.00	9.40	9.80	14.10	21.80	13.00	16.00	10.10
1994	3.00	0.40	3.90	4.30	12.90	19.70	10.50	14.90	8.90	9.40	15.80	1.20
1995	10.90	1.00	0.60	3.70	10.00	13.70	13.30	7.70	7.00	7.70	20.70	12.50
1996	17.50	4.50	3.50	3.00	12.30	15.60	8.20	10.70	9.40	10.70	26.60	5.00
1997	1.50	0.90	0.00	0.20	9.60	9.00	8.80	11.10	9.10	10.00	7.50	0.70
1998	0.60	1.70	1.20	12.60	12.10	10.50	13.70	13.30	8.70	13.80	10.90	14.00
1999	3.90	2.50	6.00	7.10	11.80	13.80	11.30	20.90	8.20	10.20	22.80	27.50
2000	3.40	0.80	0.30	5.20	9.30	12.60	10.20	10.10	4.80	21.40	8.50	22.20

DATA ECHO

0	SITE NO.	21	PEDRO MIGUEL (PMG)									
1911	0.03	1.40	0.03	5.24	9.57	5.52	6.36	5.43	8.31	12.92	7.49	1.82
1912	0.00	0.22	0.02	4.23	6.92	9.69	11.54	9.51	10.76	10.48	8.43	3.91
1913	1.10	0.07	0.00	1.04	13.48	9.00	6.80	5.46	8.32	12.07	10.17	2.14
1914	1.27	0.07	0.02	3.00	13.15	11.35	7.15	7.60	7.97	6.74	10.88	6.26
1915	1.03	1.69	0.22	2.39	10.24	7.69	8.59	10.41	6.78	16.38	7.92	3.62
1916	1.71	0.86	0.41	9.82	13.10	6.42	9.17	9.78	10.43	15.72	13.39	4.85
1917	0.30	0.00	0.91	1.25	7.38	11.34	14.78	9.51	11.78	6.01	19.38	7.00
1918	3.08	0.02	0.03	11.01	9.36	6.55	5.54	4.41	7.27	10.57	7.16	1.09
1919	0.48	0.00	0.00	6.58	7.37	3.99	7.30	7.61	9.38	11.25	6.02	3.22
1920	0.03	0.07	0.04	5.08	7.45	10.02	11.15	7.60	13.68	10.24	14.38	1.46
1921	0.04	1.53	0.17	1.17	8.72	9.81	7.02	9.40	7.26	11.06	8.78	3.42
1922	2.67	0.51	3.44	1.19	13.11	10.32	7.09	7.60	5.64	9.64	14.61	8.06
1923	0.62	0.00	0.05	9.18	8.96	5.77	7.98	4.86	18.30	8.09	3.49	
1924	0.01	0.45	1.10	1.51	11.95	8.09	8.48	13.38	12.10	12.00	15.23	9.18
1925	4.18	0.02	0.10	3.50	6.96	12.86	10.15	7.38	8.80	12.27	8.38	3.02
1926	0.00	0.16	0.00	4.95	11.58	10.96	11.30	13.02	10.58	8.46	12.69	
1927	0.30	1.94	0.02	7.51	16.93	14.37	10.06	3.87	7.74	7.00	6.94	2.03
1928	0.14	0.00	0.44	7.94	7.19	7.60	11.09	7.11	10.57	9.54	16.76	5.79
1929	0.03	0.00	0.04	0.98	3.84	9.74	4.10	12.25	9.89	9.30	14.95	6.81
1930	0.32	0.54	0.01	5.65	9.83	5.14	9.31	10.48	11.28	12.93	6.11	2.24
1931	0.02	0.01	0.57	0.60	9.65	9.85	9.69	6.20	11.62	11.15	19.24	3.16

1932	0.94	0.01	0.46	6.75	4.99	11.56	8.08	9.05	7.58	16.58	13.91	4.53
1933	3.90	0.00	0.06	0.62	6.74	11.04	7.82	8.06	7.00	6.80	10.89	5.67
1934	3.74	0.00	0.50	2.06	10.36	5.96	7.34	7.35	13.08	13.93	17.17	4.68
1935	0.28	2.07	0.00	0.94	9.37	7.75	17.16	10.64	6.48	10.74	23.96	3.47
1936	0.02	0.00	0.90	1.89	8.80	13.82	11.20	7.78	6.49	12.91	7.23	1.09
1937	2.59	0.02	0.02	3.45	11.44	5.38	8.18	10.92	10.60	12.60	8.89	21.19
1938	1.41	0.02	1.73	1.45	20.76	14.73	11.23	13.78	7.64	7.93	19.84	9.33
1939	0.02	0.00	0.03	2.27	3.62	9.67	8.26	8.67	6.78	14.52	8.90	5.01
1940	0.62	0.16	0.37	0.78	7.78	5.58	6.25	4.01	8.48	13.39	9.90	0.99
1941	1.91	2.07	0.09	2.75	9.46	9.62	12.55	8.40	9.61	9.54	4.11	4.98
1942	0.23	0.56	2.05	1.77	15.96	7.87	9.38	6.74	8.18	14.65	11.59	19.22
1943	1.99	0.39	2.22	6.04	13.03	7.67	8.41	8.51	10.02	6.10	7.70	13.03
1944	1.64	0.04	0.00	3.11	6.78	11.57	8.90	21.69	7.36	9.51	7.11	3.80
1945	0.09	0.00	0.02	3.96	2.67	6.63	10.37	11.41	8.89	15.19	11.65	7.41
1946	1.63	0.00	0.50	0.17	10.30	5.62	9.87	5.83	4.69	9.01	6.92	8.64
1947	0.00	0.08	0.00	2.88	4.72	7.61	8.98	12.06	8.50	15.92	13.81	6.55
1948	0.69	0.00	0.00	0.62	11.14	7.34	10.90	5.15	8.87	8.09	14.43	1.65
1949	0.06	0.00	0.00	2.43	12.68	13.45	7.54	7.93	8.44	13.59	7.11	5.93
1950	0.24	0.09	1.14	2.51	12.18	12.23	15.65	6.81	6.10	9.03	12.30	3.81
1951	0.75	0.78	1.51	3.72	11.76	5.25	12.44	5.60	4.98	9.16	7.89	6.59
1952	0.30	0.01	0.00	2.33	10.35	9.49	5.75	5.17	8.62	19.24	6.20	6.35
1953	4.25	0.17	0.05	0.10	8.56	8.29	6.83	11.71	3.32	15.19	10.10	5.66
1954	0.74	0.88	0.25	7.69	10.13	18.10	11.72	17.82	11.69	9.37	10.54	2.14
1955	5.12	0.82	0.36	0.27	7.19	10.72	8.80	11.30	8.82	10.34	15.06	10.01
1956	2.38	0.39	0.22	0.24	9.40	3.56	11.18	10.72	6.84	10.17	11.88	2.42
1957	0.00	0.03	0.03	0.00	10.57	7.89	9.56	9.38	12.57	17.59	7.43	1.16
1958	1.54	0.02	0.70	0.89	11.09	6.89	3.76	8.20	10.65	20.60	8.82	2.23
1959	0.68	0.00	0.00	0.81	5.86	7.78	8.90	11.80	4.34	13.69	9.91	5.52
1960	3.58	0.15	0.74	5.96	12.78	9.69	7.37	10.32	10.60	11.50	13.26	12.62
1961	0.06	0.04	0.00	4.22	4.92	14.38	9.47	5.81	9.83	10.48	11.61	10.94
1962	0.18	0.01	0.14	4.65	7.50	8.30	6.63	11.19	10.12	11.49	11.49	3.99
1963	2.23	4.03	0.00	6.71	3.94	7.79	8.89	10.32	13.33	12.27	17.89	4.23
1964	0.00	0.00	0.22	11.43	9.23	10.03	11.13	9.83	10.67	9.00	8.94	2.58
1965	0.34	0.01	0.00	0.01	21.19	3.93	8.03	8.97	7.59	10.32	18.88	3.39
1966	2.87	0.00	0.23	3.57	15.04	14.82	12.01	8.91	10.52	12.71	15.07	5.99
1967	0.13	0.48	0.01	6.03	5.37	11.19	10.70	8.11	13.24	13.59	6.05	4.76
1968	0.00	2.55	0.27	1.04	14.76	9.51	11.53	8.53	8.32	12.37	9.52	0.95
1969	0.75	0.42	0.22	4.01	6.15	8.80	5.36	13.33	12.94	13.99	10.89	5.00
1970	5.73	0.04	1.23	5.75	15.00	7.65	7.70	18.00	7.12	10.40	9.80	9.50
1971	5.60	0.70	0.20	3.90	11.20	5.10	8.00	11.10	8.10	12.40	9.00	0.90
1972	5.60	0.00	1.30	8.50	6.90	11.80	4.40	8.50	14.50	8.80	4.30	2.10
1973	0.00	0.00	0.20	0.80	7.20	9.10	8.10	7.40	5.10	13.00	12.90	6.20
1974	0.20	0.00	0.20	0.90	12.40	12.40	9.70	7.30	13.00	12.70	6.70	2.50
1975	0.00	0.00	0.00	1.00	12.50	7.90	11.10	9.30	7.50	17.50	9.60	5.10
1976	0.00	0.00	0.00	4.80	7.90	7.30	5.90	5.80	7.50	13.30	10.20	2.20
1977	0.10	0.00	0.00	0.70	14.00	10.10	10.90	7.40	9.90	14.90	6.30	3.50
1978	0.50	0.00	0.40	5.40	6.80	8.50	7.80	8.90	10.30	10.40	16.70	4.60
1979	0.00	0.10	0.00	11.20	11.90	7.90	7.70	9.30	5.30	18.50	4.80	3.90
1980	1.10	0.20	0.00	0.50	9.10	12.80	7.90	10.90	11.10	9.90	10.70	3.80
1981	0.20	0.00	2.40	13.70	7.70	14.50	11.50	5.00	9.50	8.70	12.20	4.60
1982	2.80	0.10	0.00	4.00	5.50	2.90	9.40	8.20	13.50	13.70	4.10	0.30
1983	0.00	0.00	0.00	2.90	5.40	5.60	9.80	5.70	11.00	8.50	6.20	4.70
1984	2.40	1.20	0.00	1.40	11.20	11.30	10.60	11.70	8.30	19.20	5.60	0.80
1985	0.20	0.00	1.50	0.50	8.50	18.60	7.90	6.60	15.60	8.10	10.20	6.20
1986	0.10	0.10	1.80	5.30	5.40	12.70	7.80	6.30	12.40	22.40	7.80	0.80
1987	0.10	0.10	0.40	4.80	10.20	13.00	11.30	7.50	11.60	12.00	10.90	2.40
1988	0.00	0.10	0.30	2.30	13.30	10.30	11.60	12.40	6.70	12.60	12.30	5.00
1989	2.20	0.00	0.60	0.00	5.00	11.10	10.30	11.60	6.90	7.80	14.30	5.60
1990	0.90	0.00	0.00	4.20	8.40	7.00	13.20	11.60	7.60	12.90	5.40	4.50
1991	0.20	0.00	0.20	9.00	13.80	10.50	10.80	10.90	12.80	9.00	12.50	1.30
1992	0.00	0.10	0.10	1.80	8.70	13.60	10.50	9.90	12.20	13.90	7.50	2.20
1993	3.70	0.00	0.70	3.30	8.60	18.10	11.50	7.90	11.00	8.60	9.40	3.70
1994	0.40	0.00	5.60	1.80	13.70	6.70	5.60	9.20	9.30	11.00	14.00	0.20
1995	0.20	0.10	0.80	5.90	8.50	13.00	10.50	7.00	5.90	10.10	13.70	1.90
1996	5.70	2.20	2.90	3.50	15.00	8.20	4.70	13.50	7.00	13.10	13.70	3.70
1997	1.50	0.50	0.00	0.70	6.10	4.80	11.00	5.90	7.30	13.70	13.10	1.10
1998	0.10	0.00	0.00	1.30	12.40	9.60	11.80	13.30	8.50	11.00	10.80	7.40
1999	3.20	3.20	1.10	2.50	8.70	14.20	5.00	8.70	13.30	4.70	8.20	9.60
2000	1.80	0.30	0.00	5.70	7.90	11.90	9.30	10.70	9.30	13.70	6.60	7.00

DATA ECHO

0 SITE NO. 22 PELUCA (PEL)

1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	2.74	0.49	2.01	3.49	14.25	10.90	12.14	9.33	13.41	14.95	17.11	8.20			
1935	7.68	2.60	2.20	6.28	18.52	13.69	19.30	13.67	8.72	12.73	54.32	19.93			
1936	1.34	1.17	0.88	3.52	23.55	8.23	13.47	10.99	11.73	11.36	16.55	2.30			
1937	8.34	1.38	1.02	3.21	16.45	15.36	14.27	15.36	14.30	12.16	20.42	22.15			
1938	2.32	2.46	1.02	9.21	25.89	23.61	9.65	12.85	13.04	10.25	14.92	21.13			
1939	0.95	0.29	1.33	2.21	6.53	11.97	5.57	17.68	10.34	7.43	23.37	8.94			
1940	5.17	2.82	1.50	1.41	12.80	6.76	9.05	14.31	8.15	13.00	14.11	2.06			
1941	1.83	3.05	2.27	1.73	18.08	11.91	10.04	14.14	8.38	25.46	17.27	5.35			
1942	1.46	1.03	2.56	7.19	10.84	17.08	9.39	18.00	8.15	23.88	8.09	11.82			
1943	3.94	5.19	1.27	5.13	9.22	12.00	7.19	13.44	20.11	12.11	12.47	19.42			
1944	3.20	3.12	0.56	12.71	20.39	10.17	17.23	16.70	11.48	20.96	13.11	29.16			
1945	2.53	1.71	1.27	1.80	14.48	17.20	15.19	14.71	9.64	9.29	9.69	12.87			
1946	0.45	0.78	1.07	2.48	11.30	9.80	20.56	7.52	16.53	11.08	5.06	16.49			
1947	0.45	1.32	0.61	7.48	4.98	15.61	7.85	13.64	10.22	14.13	8.14	9.95			
1948	1.79	0.80	0.62	2.27	12.73	15.95	12.68	15.24	10.35	12.77	17.35	4.20			
1949	1.17	1.41	0.82	5.12	10.78	20.10	16.24	15.62	16.99	10.25	13.89	9.04			
1950	1.68	3.71	0.89	9.82	12.75	10.78	16.60	9.24	13.05	6.94	13.12	16.51			
1951	2.16	11.87	1.75	8.50	9.36	14.78	10.74	15.24	9.99	14.46	12.14	7.20			
1952	4.08	1.01	0.45	6.00	12.76	10.27	17.65	14.67	14.84	26.10	4.10	17.45			
1953	9.70	1.85	2.38	2.68	14.79	9.86	8.70	11.14	6.80	16.26	13.20	12.20			
1954	1.87	2.26	1.53	5.10	10.55	16.97	18.14	15.85	9.36	10.51	18.66	14.17			
1955	13.26	1.02	2.52	0.98	7.32	8.48	17.45	16.57	9.55	5.41	31.16	11.70			
1956	10.87	2.94	3.75	4.81	17.48	12.15	16.80	9.18	11.25	11.27	19.02	6.37			
1957	1.30	1.89	0.16	0.35	9.47	8.74	3.64	9.65	8.13	12.16	25.04	8.16			
1958	4.22	3.38	4.68	1.47	12.51	8.47	20.18	10.05	15.85	9.70	12.56	10.22			
1959	1.51	0.73	0.44	3.86	7.85	13.61	11.62	10.35	16.06	13.11	16.61	32.43			
1960	8.31	1.23	2.89	12.78	15.96	9.19	12.70	15.78	10.52	8.98	12.46	19.96			
1961	1.55	0.49	0.84	5.30	5.67	16.65	10.78	12.99	9.95	16.04	13.75	4.19			
1962	3.07	0.93	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00			
1963	-1.00	3.55	0.89	13.42	19.36	-1.00	-1.00	13.76	11.89	11.43	14.94	3.57			
1964	-1.00	-1.00	1.28	6.18	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	14.40	-1.00			
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6.27	8.97	11.89	13.80	17.60	11.62		
1966	6.28	0.83	0.74	16.01	13.47	9.38	11.35	13.13	10.96	12.66	28.09	13.70			
1967	4.01	1.56	1.79	11.31	10.12	20.02	15.65	12.15	16.84	13.69	17.00	11.98			
1968	0.68	3.83	3.06	2.32	13.85	16.10	9.89	9.45	9.93	16.02	13.59	5.93			
1969	3.24	0.96	1.93	4.23	17.09	3.05	11.58	13.32	14.80	6.59	8.58	15.25			
1970	17.07	2.59	3.53	13.02	18.94	6.58	8.16	13.31	10.12	8.84	19.32	19.81			
1971	3.23	1.40	4.87	0.61	6.70	12.20	14.80	15.20	-1.00	12.70	14.30	2.10			
1972	18.80	2.30	1.30	9.60	12.10	12.50	11.30	11.70	12.30	16.10	8.50	6.70			
1973	2.30	2.30	0.10	0.60	14.80	14.10	18.10	14.60	8.60	11.00	22.60	13.60			
1974	2.10	1.00	0.90	2.50	8.30	9.50	12.70	10.70	10.10	10.60	12.90	3.40			
1975	1.60	0.20	1.20	1.70	15.40	17.30	14.30	12.80	9.30	21.60	12.70	15.30			
1976	3.10	1.70	2.30	8.90	10.90	11.70	4.30	4.00	14.30	8.20	8.70	1.40			
1977	2.40	0.50	0.60	1.50	7.40	8.20	7.00	10.90	10.20	13.00	12.90	5.10			
1978	1.50	2.60	2.70	13.60	10.50	11.80	11.50	14.80	9.80	9.40	15.00	3.80			
1979	0.50	1.10	1.70	12.50	9.30	13.40	10.50	10.40	4.80	13.40	16.30	12.80			
1980	5.80	4.20	0.50	3.30	14.90	12.60	6.20	12.30	11.20	17.10	12.90	6.50			
1981	5.50	2.80	3.80	29.90	13.80	16.60	16.70	12.30	7.40	12.30	14.10	16.50			
1982	3.70	1.50	0.60	5.00	5.70	10.40	13.50	11.10	8.80	14.30	4.50	2.80			
1983	1.60	0.70	1.30	6.00	16.70	11.40	5.80	9.30	14.50	17.90	9.60	20.80			
1984	2.40	2.10	0.70	1.40	11.40	17.30	13.50	15.70	9.80	11.60	11.00	6.60			
1985	2.00	1.50	2.40	1.50	14.30	17.00	8.70	7.20	14.50	12.10	9.60	10.70			
1986	2.80	0.40	0.90	14.80	10.60	10.60	3.80	8.20	11.30	12.10	3.00	1.90			
1987	1.70	1.70	0.20	20.00	16.10	13.60	20.60	12.50	13.70	16.80	21.40	4.80			
1988	0.90	4.10	1.50	1.30	10.00	8.10	15.70	11.50	11.80	20.80	9.30	7.30			
1989	2.10	4.80	0.90	0.50	3.40	9.50	15.10	16.90	7.20	16.20	15.20	8.30			
1990	5.20	1.00	3.20	2.60	12.40	5.00	9.30	13.00	10.50	18.20	10.90	9.60			
1991	2.00	1.90	2.90	3.50	15.10	8.80	10.10	10.90	12.40	13.30	20.80	3.80			

DATA ECHO

1976	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1977	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1978	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1979	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1980	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1981	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1982	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1983	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1984	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1985	-1.00	-1.00	-1.00	1.20	6.60	9.10	6.50	12.60	6.90	4.20	11.20		
1986	1.10	0.00	1.60	7.50	11.40	9.20	5.10	4.40	11.20	20.80	11.20	2.90	
1987	1.30	1.60	0.50	12.20	18.20	7.90	13.00	12.50	13.40	14.70	13.40	3.90	
1988	0.50	4.00	0.90	1.90	18.80	15.90	16.00	15.50	16.00	17.60	13.00	4.30	
1989	2.20	4.50	1.20	2.00	4.00	7.30	15.30	10.40	8.10	11.50	13.90	7.60	
1990	0.00	0.00	0.00	0.00	12.10	2.70	10.80	10.20	14.60	18.50	8.90	9.30	
1991	0.50	1.50	3.20	3.60	10.10	8.50	13.20	7.00	13.90	10.00	10.90	1.10	
1992	0.50	0.20	0.40	2.30	14.40	13.60	7.90	11.80	9.20	15.70	10.40	4.30	
1993	2.40	0.10	5.80	7.40	14.50	22.70	7.60	7.40	15.70	12.20	6.40	2.90	
1994	1.10	1.10	1.60	1.20	15.80	9.90	8.40	9.40	6.50	13.40	19.00	2.60	
1995	0.90	0.00	0.30	1.10	9.60	18.50	15.00	18.40	9.60	8.10	10.20	6.60	
1996	8.90	3.30	2.90	8.40	17.90	11.40	11.30	15.60	9.90	13.80	16.30	11.70	
1997	0.40	1.30	0.40	4.10	8.50	9.10	2.30	4.40	10.40	7.80	12.30	1.10	
1998	0.80	0.60	1.30	3.30	18.60	5.70	16.90	11.40	15.50	10.40	16.50	13.20	
1999	3.10	6.10	1.90	6.90	12.40	25.60	11.90	13.70	14.60	10.00	11.80	28.20	
2000	4.70	1.10	1.30	5.60	10.80	17.90	9.60	18.10	17.80	18.20	11.30	28.30	

DATA ECHO

0	SITE NO.	24	SALAMANCA (SAL)											
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	
1912	-1.00	-1.00	-1.00	1.07	13.37	11.97	11.69	12.14	7.76	14.98	11.99	2.97		
1913	2.23	0.84	0.11	0.69	15.17	12.05	5.19	7.71	8.52	8.98	17.27	1.70		
1914	0.25	0.50	0.11	2.57	6.68	12.14	7.69	8.76	18.17	18.62	9.62	3.62		
1915	0.59	3.72	0.11	9.67	6.38	14.64	19.10	13.37	11.46	16.33	18.80	4.52		
1916	0.14	1.79	0.66	8.43	10.64	10.82	15.32	14.31	12.31	20.40	16.14	6.19		
1917	0.33	0.14	0.17	0.88	19.41	10.17	17.68	16.01	9.00	19.40	23.99	6.01		
1918	1.49	0.27	0.05	5.16	13.58	16.86	9.85	7.07	12.19	14.20	6.55	1.23		
1919	0.84	0.06	0.05	10.32	7.32	6.64	12.79	10.67	15.03	10.21	11.33	2.72		
1920	0.49	0.20	0.37	1.45	8.45	13.40	21.89	12.56	10.04	23.96	12.40	1.76		
1921	0.44	1.28	0.61	2.76	7.89	15.03	9.37	14.88	12.37	19.32	8.45	6.98		
1922	4.17	0.50	0.05	0.51	14.12	12.21	2.31	8.80	14.10	12.79	12.10	7.16		
1923	1.44	0.55	0.38	0.74	7.01	10.44	4.92	13.22	15.85	31.62	7.75	1.69		
1924	0.18	2.01	0.04	3.77	12.84	16.83	15.77	13.99	9.17	11.40	11.19	6.77		
1925	1.22	0.32	0.16	2.98	5.06	10.24	10.75	7.99	11.84	12.51	11.67	2.43		
1926	0.11	1.43	0.40	0.05	4.70	13.10	13.15	18.60	17.95	16.30	13.30	7.88		
1927	2.05	2.05	0.94	7.40	16.00	17.58	29.70	8.40	14.58	10.25	16.81	8.65		
1928	1.04	1.75	1.82	1.13	6.14	12.15	13.85	14.19	13.08	17.42	19.25	5.20		
1929	0.20	0.30	0.72	0.85	8.93	11.80	9.40	8.04	10.25	15.63	8.36	2.30		
1930	0.52	0.34	0.30	4.40	11.07	6.80	10.27	5.10	13.06	9.21	5.68	2.31		
1931	0.68	0.64	2.30	1.45	18.47	15.72	12.95	11.13	15.38	12.08	28.24	2.82		
1932	2.06	0.26	0.23	3.38	15.69	17.06	8.43	13.84	9.79	20.63	27.95	4.09		
1933	1.36	0.09	0.55	0.05	10.70	6.43	13.72	13.47	14.50	9.39	18.26	8.37		
1934	1.10	0.36	0.69	2.22	15.31	12.83	6.04	8.39	12.79	13.05	18.20	7.43		
1935	3.56	0.86	0.87	3.80	15.47	15.95	18.96	18.79	11.88	8.99	49.13	12.20		
1936	0.89	0.15	0.46	2.56	16.26	14.36	15.45	10.21	16.54	11.09	14.37	1.10		
1937	4.79	0.55	0.15	1.23	11.96	11.99	14.77	15.03	11.93	16.00	19.18	18.32		
1938	0.51	0.27	0.19	5.83	17.83	9.46	7.47	14.46	15.90	16.32	15.67	13.90		
1939	0.27	0.08	0.18	0.31	5.45	9.92	5.40	7.98	10.02	13.23	18.33	8.30		
1940	1.93	0.96	0.14	0.44	9.37	5.80	8.12	10.28	11.26	13.86	16.53	0.68		
1941	0.74	3.43	0.82	2.09	12.15	16.35	12.46	11.61	9.14	14.31	12.01	5.29		
1942	0.71	0.13	0.63	3.09	8.39	11.61	9.00	11.34	12.41	15.94	4.88	8.78		
1943	2.04	1.43	0.11	3.80	11.78	10.19	4.99	8.11	12.40	12.24	10.55	13.85		
1944	0.97	0.50	0.07	7.44	9.91	7.00	8.78	16.98	10.88	24.29	10.70	14.65		
1945	0.52	0.13	0.10	0.35	8.89	9.05	12.65	9.58	10.04	8.06	7.08	9.95		
1946	0.13	0.28	0.24	0.80	11.90	10.68	13.59	7.14	17.11	11.39	8.47	8.57		
1947	0.12	0.25	0.17	3.66	7.64	17.54	10.52	13.31	10.90	16.45	9.84	8.73		
1948	0.56	0.07	0.30	0.43	10.10	8.72	11.74	11.78	9.63	10.44	13.22	2.54		
1949	0.25	0.22	0.11	1.12	8.75	19.89	16.24	11.42	12.47	8.54	12.48	6.21		
1950	0.28	0.63	0.16	3.25	8.77	16.05	10.16	11.44	11.28	9.29	14.00	12.13		
1951	0.35	5.42	0.23	4.10	12.28	13.08	7.98	12.99	6.57	10.74	8.85	3.49		
1952	1.67	0.35	0.00	3.24	15.38	9.43	9.55	8.39	11.05	19.52	6.31	11.03		
1953	4.17	0.95	0.39	2.99	1.78	7.57	14.45	8.11	15.49	14.72	11.32	8.95		
1954	0.79	0.76	0.97	3.87	9.20	8.52	13.67	13.36	9.87	9.46	10.99	5.95		
1955	6.66	0.16	0.58	0.67	6.05	13.23	11.91	13.09	5.33	7.33	13.67	4.72		
1956	5.46	0.88	0.98	2.39	11.07	7.70	14.59	6.96	9.05	13.16	17.83	2.58		
1957	0.17	0.07	0.00	0.00	4.09	7.06	8.01	8.23	5.90	11.64	11.86	2.35		
1958	0.97	0.84	2.49	1.23	10.66	10.73	10.31	6.19	10.39	8.27	10.00	2.73		
1959	0.10	0.00	0.00	1.08	2.82	11.52	5.36	10.88	10.95	10.09	7.21	14.41		

1960	3.30	0.38	0.98	4.29	12.47	10.74	7.44	13.73	11.36	13.00	11.37	12.53
1961	0.18	0.14	0.30	5.02	3.72	14.27	10.28	17.07	14.41	14.07	12.86	5.35
1962	0.66	0.11	0.75	0.71	10.00	9.90	14.00	17.05	6.84	15.38	9.83	-1.00
1963	6.05	1.52	0.13	4.39	6.38	7.75	14.50	11.96	9.64	9.76	15.83	0.29
1964	0.00	0.01	0.12	5.12	6.81	-1.00	-1.00	11.08	9.66	16.46	-1.00	-1.00
1965	-1.00	0.06	0.01	-1.00	9.44	-1.00	-1.00	-1.00	-1.00	9.78	14.22	6.15
1966	1.21	0.34	2.54	2.54	8.89	11.12	13.11	14.01	14.01	14.01	14.01	10.51
1967	0.56	0.14	0.27	6.71	6.17	14.51	13.53	12.27	10.54	12.59	12.19	8.18
1968	0.12	0.92	0.67	1.39	9.21	12.97	3.88	11.02	6.75	18.42	13.85	3.12
1969	0.73	0.13	0.88	6.90	9.89	9.83	4.80	14.42	15.55	5.72	7.70	8.26
1970	10.24	0.69	1.08	13.76	16.62	8.41	11.67	10.76	11.68	10.15	8.33	9.96
1971	2.34	0.26	2.82	0.31	3.42	13.90	12.10	14.10	7.90	12.20	7.00	0.30
1972	6.30	0.60	1.60	6.30	7.60	7.40	3.80	3.40	11.00	4.60	7.80	3.90
1973	0.60	0.30	0.00	0.80	12.80	12.00	10.60	13.50	7.20	15.60	19.40	4.70
1974	0.30	0.10	0.20	2.00	7.00	17.40	7.40	9.00	8.40	16.70	10.60	3.30
1975	0.30	0.00	1.50	1.30	14.30	10.10	15.00	15.70	7.30	23.30	10.70	8.60
1976	1.20	0.20	0.30	2.00	6.20	7.20	3.20	9.80	10.20	6.50	7.80	0.70
1977	0.60	0.20	0.00	0.70	8.80	5.50	3.80	14.00	7.60	15.10	8.90	4.60
1978	0.60	0.50	0.90	12.20	7.50	13.30	5.80	14.50	11.20	7.80	18.90	0.70
1979	0.10	0.20	0.10	16.40	7.10	10.20	10.10	15.90	6.00	14.40	10.80	6.20
1980	3.30	1.60	0.30	1.40	11.30	11.00	7.50	8.60	11.10	13.20	13.00	2.60
1981	1.90	0.50	2.10	9.00	6.10	13.40	16.30	10.70	7.00	9.50	13.50	12.30
1982	3.50	0.10	0.10	5.70	10.20	10.40	8.50	3.10	5.00	12.00	6.10	0.50
1983	0.10	0.00	0.90	3.20	7.90	8.80	3.40	9.10	17.30	16.00	14.60	10.30
1984	0.80	-1.00	-1.00	0.80	10.00	14.20	9.80	14.50	9.80	12.90	12.60	1.40
1985	1.60	0.40	1.00	1.10	11.20	11.70	7.50	10.10	14.80	12.70	9.00	10.60
1986	0.30	0.10	0.10	8.60	4.70	13.40	4.20	7.60	12.70	16.50	8.30	1.80
1987	0.50	0.40	0.10	15.90	9.90	9.50	16.30	9.10	10.40	17.80	12.70	5.50
1988	0.00	0.40	0.40	0.40	7.90	7.70	17.10	11.30	12.90	17.10	12.80	4.10
1989	0.80	1.10	0.10	0.10	3.30	8.60	12.00	13.60	6.60	16.40	12.30	5.20
1990	3.00	0.00	0.70	0.30	8.90	5.30	8.70	13.10	13.40	14.40	8.50	8.90
1991	1.10	0.50	1.10	4.50	11.10	6.90	7.10	10.50	11.40	12.00	12.00	1.60
1992	0.30	0.00	0.10	5.90	10.80	12.20	9.40	12.30	8.40	8.60	7.00	2.30
1993	1.70	0.00	3.00	4.10	8.60	20.60	6.40	5.60	15.20	11.10	12.50	2.70
1994	0.90	0.30	1.20	0.00	11.80	10.70	6.20	7.00	11.70	13.20	10.20	0.70
1995	1.00	0.10	2.30	3.00	6.10	8.80	10.40	11.90	9.90	13.50	13.40	6.70
1996	7.20	1.10	1.70	4.00	7.10	14.40	4.10	12.00	13.30	11.30	9.80	3.60
1997	0.10	0.30	0.00	3.20	7.40	9.90	4.80	4.40	8.70	8.90	3.70	0.40
1998	0.30	0.10	0.10	3.10	11.20	11.00	7.80	16.00	12.30	7.00	6.90	9.80
1999	1.60	1.80	1.20	2.10	14.20	13.80	14.60	13.50	12.60	14.80	24.50	24.60
2000	3.20	0.50	0.20	3.00	2.90	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

DATA ECHO

0	SITE NO.	25	SAN MIGUEL (SMG)										
1911	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1926	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1927	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	3.52	15.12	19.14	12.59	16.65	9.20	24.72	18.84	5.12	
1942	2.65	2.59	8.67	7.37	10.05	21.87	9.89	12.74	12.05	17.63	7.56	10.92	
1943	2.81	2.67	1.71	7.25	15.02	11.67	6.57	12.07	13.87	7.74	9.22	21.31	

DATA ECHO

DATA ECHO

0 SITE NO. 27 HUMEDAD (HUM)
1911 -1.00 -1.00 -1.00 -1.00

1912	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1913	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1914	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1915	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1916	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1917	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1918	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1919	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1920	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1921	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1922	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1923	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1924	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1925	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	6.34	12.74	14.77	15.59	5.34	
1926	0.42	1.25	0.18	0.16	5.91	8.17	17.29	13.84	8.85	10.50	15.31	7.72	
1927	3.90	1.87	1.50	5.80	14.73	11.54	18.36	13.61	11.68	16.21	19.51	11.75	
1928	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1929	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1930	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1931	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1932	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1933	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1934	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1935	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1936	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1937	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1938	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1939	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1940	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1948	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1949	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1950	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1951	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1952	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1953	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1954	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1955	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1956	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1957	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1958	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1959	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	18.90
1961	0.77	0.43	0.39	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	1.08	1.47	0.64	9.20	7.35	19.44	6.51	9.32	9.77	11.20	21.80	5.28	
1968	0.09	4.50	1.89	0.81	13.28	10.90	7.83	8.48	7.96	11.13	8.22	3.24	
1969	4.12	2.85	0.39	3.01	8.71	6.26	10.36	4.66	9.74	11.51	9.42	12.32	
1970	6.74	1.58	2.98	3.90	12.44	11.55	11.36	10.51	9.79	11.19	27.09	19.39	
1971	2.61	3.28	3.36	0.04	4.88	6.10	4.00	12.40	7.60	8.70	8.50	0.30	
1972	3.60	0.30	2.30	10.00	7.20	7.60	3.60	5.40	12.80	11.70	9.40	6.20	
1973	1.20	1.60	0.20	2.80	8.20	11.50	6.40	9.90	11.60	11.80	17.10	4.90	
1974	1.20	0.60	1.60	1.50	14.10	6.70	8.30	9.20	8.20	16.00	23.20	4.10	
1975	0.20	1.10	0.70	0.40	11.60	15.70	7.60	13.90	6.80	18.30	14.90	18.60	
1976	1.80	1.50	0.10	4.30	7.40	4.70	3.60	6.00	14.00	13.20	5.40	4.80	
1977	0.80	1.10	0.10	0.00	6.30	5.20	5.60	11.90	11.00	13.90	11.50	3.00	
1978	3.20	0.90	4.60	11.70	8.80	12.40	11.50	7.20	14.30	8.90	9.30	1.30	
1979	0.50	2.10	0.30	11.40	13.20	8.00	8.70	7.70	11.20	8.90	11.50	5.60	
1980	7.70	3.00	0.10	1.80	17.90	11.10	11.10	9.10	6.60	8.60	11.70	7.50	
1981	6.50	2.10	1.70	10.80	11.90	15.30	13.40	13.70	5.80	6.90	16.90	11.40	
1982	6.90	1.60	1.30	2.70	7.20	8.40	5.50	6.40	9.40	16.90	4.60	0.70	
1983	1.70	0.30	1.90	2.80	10.00	11.00	5.60	8.20	11.00	11.10	8.10	10.00	
1984	3.60	1.50	1.00	3.00	10.60	6.50	6.50	9.80	13.10	12.50	13.20	2.30	
1985	4.80	1.20	0.50	0.20	10.70	10.60	7.60	12.00	9.00	7.50	7.00	9.00	
1986	1.60	0.10	0.80	9.80	7.00	8.50	5.60	6.50	8.90	14.50	7.40	2.40	
1987	1.50	1.40	0.10	5.70	10.20	6.80	10.00	12.10	14.20	15.90	9.60	7.40	

1988	0.30	1.20	0.00	1.50	9.50	11.40	6.50	19.90	13.10	11.70	15.30	3.90
1989	0.00	0.00	0.70	2.30	5.20	3.20	6.90	9.90	7.80	18.00	16.80	7.00
1990	1.80	0.20	1.60	4.40	11.80	8.50	9.80	7.70	15.20	18.00	12.70	10.70
1991	1.40	1.30	5.20	1.10	16.60	10.90	8.80	3.90	11.50	8.20	12.20	2.10
1992	1.50	0.70	0.40	7.60	14.00	12.20	7.70	10.30	8.90	9.10	13.80	6.90
1993	2.00	0.70	5.30	5.70	7.80	11.70	7.00	7.60	13.90	12.80	13.00	6.60
1994	2.40	0.50	2.70	3.00	12.50	8.90	4.90	8.80	11.00	7.20	15.60	2.50
1995	5.30	0.50	0.90	6.40	13.70	11.70	10.40	10.40	7.30	5.50	11.80	14.40
1996	15.10	3.70	3.60	1.40	13.10	8.80	8.40	7.30	12.60	13.10	13.00	11.60
1997	0.90	1.50	0.30	0.90	7.10	4.10	6.80	7.80	8.70	4.30	12.00	0.60
1998	0.70	0.20	1.80	8.20	11.00	11.80	10.80	5.20	6.90	10.80	9.10	13.50
1999	2.40	2.10	5.20	6.30	6.50	8.30	7.60	11.30	16.50	9.00	18.90	24.00
2000	4.50	1.40	0.40	4.40	7.30	17.80	6.20	6.30	5.10	14.90	6.90	18.10

1

REORDERED SITE LIST

RAIN	ALHAJUELA (ALA)
RAIN	BALBOA HEIGHT (BHT)
RAIN	GAMBOA (GAM)
RAIN	GATUN (GAT)
RAIN	PEDRO MIGUEL (PMG)
RAIN	MONTE LIRIO (MLR)
RAIN	LIMON BAY (LMB)
RAIN	SALAMANCA (SAL)
RAIN	CANO (CNO)
RAIN	BARRO COLORADO (BCI)
RAIN	CANDELARIA (CDL)
RAIN	PELUCA (PEL)
RAIN	CHICO (CHI)
RAIN	AGUA CLARA (ACL)
RAIN	LAS RACIES (RAI)
RAIN	SAN MIGUEL (SMG)
RAIN	EL CHORRO (CHR)
RAIN	CIENTO (CNT)
RAIN	ESCANDALOSA (ESC)
RAIN	LOS CANONES (CAN)
RAIN	HODGES HILL (HHI)
RAIN	HUMEDAD (HUM)
RAIN	GUACHA (GUA)
RAIN	LAS CASCADAS (CAS)
RAIN	EMPIRE HILLS (EMH)
RAIN	RIO PIEDRAS (RPD)
RAIN	SANTA ROSA (SRO)

SITE STATISTICS

1

UNFILLED DATA SET

0	EXISTING SITE NO.	1	-	RAIN	ALHAJUELA (ALA)					
	ORIGINAL SITE NO.	1								
	TOTAL NO. OF DATA POINTS	1080								
	NUMBER OF OVERLAP POINTS =	0								
	1	2	3	4	5	6	7	8	9	10
	11	12								

ONON TRANSFORMED DATA

MEAN:

1.179 0.455 0.564 3.276 10.313 11.379 11.211 11.312 11.403 14.001 12.769 5.021

S.D.:

1.913 0.829 0.773 2.914 3.521 3.278 3.680 3.454 3.457 4.363 4.997 4.368

OLOG TRANSFORMED DATA

MEAN:

1.043605 1.018150 1.022731 1.113482 1.300908 1.324935

1.320141 1.322765 1.324966 1.373292 1.347741 1.161202

S.D.:

0.060426 0.030521 0.030046 0.089569 0.078475 0.066300

0.074565 0.072074 0.068827 0.077277 0.090092 0.111940

0 EXISTING SITE NO. 2 RAIN BALBOA HEIGHT (BHT)

ORIGINAL SITE NO. 4

TOTAL NO. OF DATA POINTS 1080

NUMBER OF OVERLAP POINTS = 1080

1 2 3 4 5 6 7 8 9 10

11 12

ONON TRANSFORMED DATA

MEAN:

1.406 0.642 0.617 2.891 8.278 8.167 7.245 7.854 8.135 10.901 9.974 4.984

S.D.:

1.787 0.921 0.897 2.442 3.084 3.244 2.530 2.992 2.814 3.466 3.726 3.024
OLOG TRANSFORMED DATA
MEAN:
 1.052738 1.025525 1.024587 1.103367 1.255912 1.252695
 1.232152 1.245747 1.253366 1.314590 1.293659 1.167322
S.D.:
 0.059072 0.035047 0.034277 0.075710 0.071865 0.074924
 0.062220 0.071842 0.066688 0.068704 0.075276 0.084076
 0 EXISTING SITE NO. 3 RAIN GAMBOA (GAM)
 ORIGINAL SITE NO. 13
 TOTAL NO. OF DATA POINTS 1080
 NUMBER OF OVERLAP POINTS = 1080
 1 2 3 4 5 6 7 8 9 10
 11 12
ONON TRANSFORMED DATA
MEAN:
 1.382 0.616 0.557 2.926 9.954 9.929 9.597 9.865 10.023 12.285 11.715 5.218
S.D.:
 1.877 0.888 0.785 2.587 3.046 3.241 3.680 3.237 2.805 4.045 5.008 3.943
OLOG TRANSFORMED DATA
MEAN:
 1.051289 1.024643 1.022445 1.103696 1.294818 1.293664
 1.285086 1.292655 1.297364 1.341287 1.326177 1.169828
S.D.:
 0.062727 0.032946 0.030435 0.079972 0.067830 0.071472
 0.077348 0.067854 0.060034 0.075447 0.094349 0.101355
 0 EXISTING SITE NO. 4 RAIN GATUN (GAT)
 ORIGINAL SITE NO. 14
 TOTAL NO. OF DATA POINTS 1080
 NUMBER OF OVERLAP POINTS = 1080
 1 2 3 4 5 6 7 8 9 10
 11 12
ONON TRANSFORMED DATA
MEAN:
 3.355 1.758 1.581 5.273 12.220 11.244 12.338 13.001 11.181 15.439 19.057 11.159
S.D.:
 3.112 1.695 1.497 4.127 4.377 3.784 4.450 3.772 3.859 5.172 8.879 7.427
OLOG TRANSFORMED DATA
MEAN:
 1.115867 1.066777 1.060519 1.169569 1.338340 1.320643
 1.340251 1.355859 1.318834 1.397387 1.444850 1.299531
S.D.:
 0.088302 0.052583 0.051280 0.109411 0.085794 0.075093
 0.088170 0.071737 0.078537 0.082369 0.124146 0.149704
 0 EXISTING SITE NO. 5 RAIN PEDRO MIGUEL (PMG)
 ORIGINAL SITE NO. 21
 TOTAL NO. OF DATA POINTS 1080
 NUMBER OF OVERLAP POINTS = 1080
 1 2 3 4 5 6 7 8 9 10
 11 12
ONON TRANSFORMED DATA
MEAN:
 1.220 0.388 0.495 3.421 9.642 9.551 9.150 9.151 9.226 11.953 10.679 4.890
S.D.:
 1.563 0.752 0.876 2.994 3.579 3.272 2.489 3.013 2.597 3.359 3.993 3.679
OLOG TRANSFORMED DATA
MEAN:
 1.046203 1.015506 1.019671 1.118086 1.286188 1.285142
 1.278494 1.277182 1.279895 1.336537 1.307799 1.161815
S.D.:
 0.055853 0.028900 0.032539 0.089714 0.077716 0.072313
 0.056734 0.065057 0.059153 0.065339 0.081278 0.094508
 0 EXISTING SITE NO. 6 RAIN MONTE LIRIO (MLR)
 ORIGINAL SITE NO. 20
 TOTAL NO. OF DATA POINTS 1058
 NUMBER OF OVERLAP POINTS = 1058
 1 2 3 4 5 6 7 8 9 10
 11 12
ONON TRANSFORMED DATA
MEAN:
 2.746 1.433 1.435 4.104 10.867 10.820 10.980 12.599 11.204 15.331 17.679 9.926
S.D.:
 3.062 1.339 1.545 3.481 3.826 3.745 3.559 3.806 3.694 5.495 7.607 7.226
OLOG TRANSFORMED DATA
MEAN:
 1.095487 1.055545 1.054717 1.137397 1.312163 1.311809

1.315625 1.348128 1.319990 1.394307 1.427035 1.272790
 S.D.:
 0.087745 0.046466 0.053716 0.099497 0.079871 0.075493
 0.073280 0.071547 0.074552 0.088817 0.112851 0.150301
 0 EXISTING SITE NO. 7 RAIN LIMON BAY (LMB)
 ORIGINAL SITE NO. 9
 TOTAL NO. OF DATA POINTS 1051
 NUMBER OF OVERLAP POINTS = 1029
 1 2 3 4 5 6 7 8 9 10
 11 12

ONON TRANSFORMED DATA
 MEAN:
 2.626 1.357 1.176 4.279 12.273 13.546 13.898 15.201 12.563 16.900 20.872 11.187
 S.D.:
 2.672 1.639 1.140 3.766 5.100 4.898 4.983 4.350 4.129 5.834 8.389 7.494

OLOG TRANSFORMED DATA
 MEAN:
 1.093213 1.051832 1.046224 1.141208 1.336665 1.362827
 1.368577 1.394903 1.346200 1.420054 1.473908 1.300068
 S.D.:
 0.080061 0.051493 0.041192 0.105495 0.098049 0.088671
 0.093452 0.075578 0.079189 0.091362 0.116600 0.149561
 0 EXISTING SITE NO. 8 RAIN SALAMANCA (SAL)
 ORIGINAL SITE NO. 24
 TOTAL NO. OF DATA POINTS 1045
 NUMBER OF OVERLAP POINTS = 1016
 1 2 3 4 5 6 7 8 9 10
 11 12

ONON TRANSFORMED DATA
 MEAN:
 1.496 0.631 0.609 3.454 9.661 11.501 10.524 11.351 11.257 13.506 12.819 6.037
 S.D.:
 1.875 0.856 0.708 3.446 3.790 3.341 4.711 3.351 3.007 4.457 6.158 4.507

OLOG TRANSFORMED DATA
 MEAN:
 1.055741 1.025335 1.024782 1.117064 1.285480 1.327271
 1.301253 1.323773 1.323098 1.363780 1.345980 1.189637
 S.D.:
 0.061760 0.031569 0.027585 0.096971 0.084409 0.067132
 0.097508 0.071241 0.062080 0.079477 0.098784 0.113792
 0 EXISTING SITE NO. 9 RAIN CANO (CNO)
 ORIGINAL SITE NO. 5
 TOTAL NO. OF DATA POINTS 934
 NUMBER OF OVERLAP POINTS = 922
 1 2 3 4 5 6 7 8 9 10
 11 12

ONON TRANSFORMED DATA
 MEAN:
 2.016 0.960 0.896 2.900 9.818 9.255 8.952 9.939 9.884 13.115 13.155 7.094
 S.D.:
 2.323 0.980 1.011 2.714 3.487 3.036 3.371 3.176 2.865 3.680 5.758 4.929

OLOG TRANSFORMED DATA
 MEAN:
 1.073246 1.038204 1.035540 1.102340 1.290566 1.279542
 1.270841 1.294129 1.294031 1.358418 1.352564 1.216338
 S.D.:
 0.071443 0.036487 0.037762 0.081810 0.074721 0.064891
 0.076859 0.070073 0.062203 0.069037 0.100919 0.117670
 0 EXISTING SITE NO. 10 RAIN BARRO COLORADO (BCI)
 ORIGINAL SITE NO. 3
 TOTAL NO. OF DATA POINTS 909
 NUMBER OF OVERLAP POINTS = 775
 1 2 3 4 5 6 7 8 9 10
 11 12

ONON TRANSFORMED DATA
 MEAN:
 2.627 1.252 1.260 3.697 10.990 10.869 10.823 12.173 10.446 13.845 16.093 9.368
 S.D.:
 3.054 1.326 1.314 3.322 4.026 3.840 3.854 3.931 3.161 3.728 7.327 6.717

OLOG TRANSFORMED DATA
 MEAN:
 1.091527 1.048593 1.048862 1.125709 1.313980 1.312440
 1.311616 1.339504 1.305550 1.372032 1.400796 1.262311
 S.D.:
 0.086833 0.046453 0.046901 0.094272 0.084041 0.077740
 0.076857 0.073002 0.066020 0.068574 0.115344 0.145638

0 EXISTING SITE NO. 11 RAIN CANDELARIA (CDL)
 ORIGINAL SITE NO. 6
 TOTAL NO. OF DATA POINTS 790
 NUMBER OF OVERLAP POINTS = 790
 1 2 3 4 5 6 7 8 9 10
 11 12

ONON TRANSFORMED DATA

MEAN:
 4.433 2.423 2.013 6.363 13.580 13.706 13.018 13.806 12.696 13.945 15.113 12.075

S.D.:
 4.491 2.185 1.878 5.379 4.227 4.604 4.532 4.141 3.318 4.644 7.333 7.973

OLOG TRANSFORMED DATA

MEAN:
 1.143103 1.088689 1.075144 1.193447 1.365936 1.366467
 1.353256 1.369625 1.351216 1.371707 1.385280 1.317161

S.D.:
 0.111854 0.066282 0.060144 0.129621 0.075163 0.086364
 0.088898 0.080114 0.064488 0.079573 0.108049 0.151426

0 EXISTING SITE NO. 12 RAIN PELUCA (PEL)
 ORIGINAL SITE NO. 22
 TOTAL NO. OF DATA POINTS 778
 NUMBER OF OVERLAP POINTS = 773
 1 2 3 4 5 6 7 8 9 10
 11 12

ONON TRANSFORMED DATA

MEAN:
 3.959 2.055 1.781 6.106 13.033 12.813 12.082 12.529 11.452 13.176 15.064 11.205

S.D.:
 3.870 1.800 1.403 5.381 4.459 4.203 4.379 3.107 3.085 4.316 7.383 7.739

OLOG TRANSFORMED DATA

MEAN:
 1.131847 1.077157 1.068431 1.187174 1.354094 1.350777
 1.335124 1.348361 1.327104 1.357898 1.383525 1.300269

S.D.:
 0.100234 0.056467 0.047738 0.125888 0.085346 0.080624
 0.089101 0.062794 0.061220 0.078118 0.113003 0.148544

0 EXISTING SITE NO. 13 RAIN CHICO (CHI)
 ORIGINAL SITE NO. 8
 TOTAL NO. OF DATA POINTS 784
 NUMBER OF OVERLAP POINTS = 764
 1 2 3 4 5 6 7 8 9 10
 11 12

ONON TRANSFORMED DATA

MEAN:
 1.567 0.726 0.589 3.202 11.027 12.608 12.110 13.223 12.713 15.296 13.313 6.849

S.D.:
 2.157 1.387 0.598 2.868 4.208 3.827 4.589 4.155 2.999 4.301 5.218 5.228

OLOG TRANSFORMED DATA

MEAN:
 1.057277 1.027662 1.024187 1.111658 1.314280 1.348189
 1.334684 1.358926 1.352482 1.396879 1.358734 1.207585

S.D.:
 0.067878 0.045857 0.023586 0.085655 0.085691 0.072464
 0.094400 0.078388 0.057465 0.073119 0.084625 0.125921

0 EXISTING SITE NO. 14 RAIN AGUA CLARA (ACL)
 ORIGINAL SITE NO. 2
 TOTAL NO. OF DATA POINTS 882
 NUMBER OF OVERLAP POINTS = 671
 1 2 3 4 5 6 7 8 9 10
 11 12

ONON TRANSFORMED DATA

MEAN:
 4.134 2.378 2.250 6.152 14.401 13.917 12.917 14.668 13.265 19.714 20.970 12.079

S.D.:
 4.729 2.393 2.379 5.341 5.809 4.112 4.688 4.276 4.408 6.767 8.065 9.129

OLOG TRANSFORMED DATA

MEAN:
 1.132102 1.085780 1.081289 1.187911 1.377094 1.372417
 1.350810 1.385677 1.359536 1.462820 1.475946 1.310898

S.D.:
 0.117649 0.074473 0.074062 0.128795 0.091326 0.073660
 0.091188 0.074924 0.077589 0.091848 0.115179 0.165805

0 EXISTING SITE NO. 15 RAIN LAS RACIES (RAI)
 ORIGINAL SITE NO. 18
 TOTAL NO. OF DATA POINTS 828
 NUMBER OF OVERLAP POINTS = 810

	1	2	3	4	5	6	7	8	9	10
	11	12								
ONON TRANSFORMED DATA										
MEAN:										
2.446	1.070	1.058	3.690	9.929	9.096	8.078	9.224	9.667	12.304	12.239
S.D.:										
2.378	1.347	1.148	3.150	3.447	3.035	2.990	3.208	2.921	3.853	5.108
OLOG TRANSFORMED DATA										
MEAN:										
1.088459	1.041539	1.041514	1.126247	1.293232	1.275677					
S.D.:										
1.250951	1.277998	1.288944	1.341938	1.336400	1.221617					
O EXISTING SITE NO. 16				RAIN		SAN MIGUEL (SMG)				
ORIGINAL SITE NO. 25										
TOTAL NO. OF DATA POINTS			674							
NUMBER OF OVERLAP POINTS =			661							
	1	2	3	4	5	6	7	8	9	10
	11	12								
ONON TRANSFORMED DATA										
MEAN:										
6.475	3.554	3.639	8.826	15.842	14.672	14.367	14.491	12.799	14.278	17.079
S.D.:										
6.679	2.676	3.127	7.444	5.624	4.848	5.264	4.377	3.959	5.588	8.083
OLOG TRANSFORMED DATA										
MEAN:										
1.191013	1.124610	1.124679	1.247696	1.402540	1.383940					
S.D.:										
1.376866	1.382303	1.351940	1.373367	1.413755	1.366099					
O EXISTING SITE NO. 17				RAIN		EL CHORRO (CHR)				
ORIGINAL SITE NO. 10										
TOTAL NO. OF DATA POINTS			621							
NUMBER OF OVERLAP POINTS =			587							
	1	2	3	4	5	6	7	8	9	10
	11	12								
ONON TRANSFORMED DATA										
MEAN:										
2.666	1.107	1.371	3.602	10.536	9.360	7.627	9.946	11.490	12.413	12.212
S.D.:										
2.527	1.220	1.648	3.034	3.291	3.618	2.935	3.629	4.629	4.322	4.511
OLOG TRANSFORMED DATA										
MEAN:										
1.095218	1.043267	1.051831	1.123994	1.306970	1.279050					
S.D.:										
1.240328	1.292746	1.323385	1.342515	1.337159	1.204013					
O EXISTING SITE NO. 18				RAIN		CIENTO (CNT)				
ORIGINAL SITE NO. 7										
TOTAL NO. OF DATA POINTS			619							
NUMBER OF OVERLAP POINTS =			604							
	1	2	3	4	5	6	7	8	9	10
	11	12								
ONON TRANSFORMED DATA										
MEAN:										
3.864	1.670	1.635	4.897	13.806	12.479	11.926	12.993	12.593	18.615	18.774
S.D.:										
4.583	1.870	1.836	4.435	5.730	3.947	3.836	3.327	3.852	7.033	8.151
OLOG TRANSFORMED DATA										
MEAN:										
1.123028	1.062402	1.061049	1.156567	1.365649	1.345348					
S.D.:										
1.334227	1.356925	1.347477	1.443549	1.442818	1.294544					
O EXISTING SITE NO. 19				RAIN		ESCANDALOSA (ESC)				
ORIGINAL SITE NO. 12										
TOTAL NO. OF DATA POINTS			592							
NUMBER OF OVERLAP POINTS =			574							
	1	2	3	4	5	6	7	8	9	10
	11	12								
ONON TRANSFORMED DATA										
MEAN:										

5.424 3.256 2.892 7.740 14.883 13.618 13.704 12.770 11.243 13.499 17.022 13.045
 S.D.: 4.395 2.543 2.322 6.640 4.363 4.959 5.360 3.882 3.166 4.189 6.471 8.577
 OLOG TRANSFORMED DATA
 MEAN:
 1.174412 1.115863 1.104160 1.225348 1.389267 1.364123
 1.363779 1.351092 1.322544 1.364538 1.419279 1.336407
 S.D.: 0.103408 0.072169 0.070989 0.136421 0.076072 0.088282
 0.098158 0.073848 0.063402 0.074324 0.104459 0.146983
 0 EXISTING SITE NO. 20 RAIN LOS CANONES (CAN)
 ORIGINAL SITE NO. 19
 TOTAL NO. OF DATA POINTS 417
 NUMBER OF OVERLAP POINTS = 408
 1 2 3 4 5 6 7 8 9 10
 11 12
 ONON TRANSFORMED DATA
 MEAN: 3.974 1.635 1.557 4.301 11.684 10.879 9.802 10.835 13.569 13.464 12.559 7.924
 S.D.: 3.862 1.419 1.626 3.187 3.427 4.198 4.126 4.370 5.035 4.253 5.196 4.505
 OLOG TRANSFORMED DATA
 MEAN:
 1.130965 1.062799 1.058911 1.145351 1.330787 1.311048
 1.287834 1.308939 1.362772 1.363356 1.342812 1.239761
 S.D.: 0.107919 0.049883 0.057036 0.091702 0.068054 0.086928
 0.086780 0.093680 0.090741 0.078279 0.093794 0.109627
 0 EXISTING SITE NO. 21 RAIN HODGES HILL (HHI)
 ORIGINAL SITE NO. 16
 TOTAL NO. OF DATA POINTS 391
 NUMBER OF OVERLAP POINTS = 274
 1 2 3 4 5 6 7 8 9 10
 11 12
 ONON TRANSFORMED DATA
 MEAN: 1.385 0.433 0.587 3.382 9.389 10.855 8.908 10.151 10.651 14.096 10.267 3.958
 S.D.: 1.893 0.731 0.805 2.979 3.182 4.016 2.233 3.053 3.354 3.853 3.334 3.035
 OLOG TRANSFORMED DATA
 MEAN:
 1.051182 1.017452 1.023613 1.117017 1.281541 1.311199
 1.273666 1.299230 1.309267 1.376436 1.300757 1.135199
 S.D.: 0.064429 0.028187 0.030758 0.088331 0.072963 0.083549
 0.050857 0.066786 0.070238 0.069175 0.072874 0.090410
 0 EXISTING SITE NO. 22 RAIN HUMEDAD (HUM)
 ORIGINAL SITE NO. 27
 TOTAL NO. OF DATA POINTS 444
 NUMBER OF OVERLAP POINTS = 391
 1 2 3 4 5 6 7 8 9 10
 11 12
 ONON TRANSFORMED DATA
 MEAN: 2.833 1.395 1.533 4.306 10.158 9.813 8.281 9.312 10.321 11.753 13.234 8.035
 S.D.: 2.909 1.021 1.555 3.501 3.273 3.584 3.272 3.208 2.795 3.491 5.290 5.913
 OLOG TRANSFORMED DATA
 MEAN:
 1.099320 1.055073 1.058332 1.143205 1.298797 1.289972
 1.255671 1.280154 1.303833 1.331779 1.355411 1.234450
 S.D.: 0.084417 0.037475 0.054895 0.102180 0.069976 0.077741
 0.072631 0.069572 0.059854 0.071208 0.095709 0.135361
 0 EXISTING SITE NO. 23 RAIN GUACHA (GUA)
 ORIGINAL SITE NO. 15
 TOTAL NO. OF DATA POINTS 421
 NUMBER OF OVERLAP POINTS = 388
 1 2 3 4 5 6 7 8 9 10
 11 12
 ONON TRANSFORMED DATA
 MEAN: 3.044 1.343 1.336 4.989 9.408 8.670 8.559 9.767 9.484 11.758 12.925 8.396
 S.D.: 3.038 1.128 1.261 3.501 3.126 2.692 3.100 3.821 3.765 3.867 5.405 7.284
 OLOG TRANSFORMED DATA

MEAN:

1.105359	1.052800	1.051946	1.164235	1.281991	1.266701							
1.262181	1.288857	1.281931	1.330833	1.347974	1.235468							

S.D.:

0.089972	0.039906	0.045981	0.099607	0.073431	0.062086							
0.075421	0.076284	0.081360	0.076592	0.104693	0.154219							

0 EXISTING SITE NO. 24 RAIN LAS CASCADAS (CAS)

ORIGINAL SITE NO. 17

TOTAL NO. OF DATA POINTS 383

NUMBER OF OVERLAP POINTS = 366

1	2	3	4	5	6	7	8	9	10
11	12								

ONON TRANSFORMED DATA

MEAN:

1.232	0.468	0.837	3.268	10.767	11.347	9.166	10.573	11.150	13.196	11.446	4.281
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S.D.:

1.774	0.762	0.905	2.923	3.249	4.010	3.215	3.137	3.989	4.436	3.679	3.073
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OLOG TRANSFORMED DATA

MEAN:

1.045952	1.018873	1.033499	1.113544	1.312028	1.322421						
1.276453	1.308536	1.318044	1.357446	1.325204	1.145570						

S.D.:

0.059727	0.028667	0.034707	0.087249	0.068558	0.075851						
0.072844	0.063466	0.078603	0.083428	0.072506	0.087792						

0 EXISTING SITE NO. 25 RAIN EMPIRE HILLS (EMH)

ORIGINAL SITE NO. 11

TOTAL NO. OF DATA POINTS 493

NUMBER OF OVERLAP POINTS = 265

1	2	3	4	5	6	7	8	9	10
11	12								

ONON TRANSFORMED DATA

MEAN:

1.054	0.556	0.455	3.281	9.766	10.350	9.044	9.458	10.766	13.009	10.841	4.015
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S.D.:

1.421	0.746	0.674	2.663	3.018	3.796	3.078	2.797	3.651	4.598	3.675	2.809
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OLOG TRANSFORMED DATA

MEAN:

1.040435	1.022504	1.018498	1.115123	1.290946	1.301474						
1.274037	1.284755	1.311025	1.353255	1.312703	1.138290						

S.D.:

0.049856	0.028759	0.026436	0.082693	0.065621	0.077594						
0.070742	0.060960	0.073175	0.086787	0.072215	0.084285						

0 EXISTING SITE NO. 26 RAIN RIO PIEDRAS (RPD)

ORIGINAL SITE NO. 23

TOTAL NO. OF DATA POINTS 188

NUMBER OF OVERLAP POINTS = 188

1	2	3	4	5	6	7	8	9	10
11	12								

ONON TRANSFORMED DATA .

MEAN:

1.893	1.693	1.553	4.500	12.394	12.031	10.837	11.044	12.438	13.100	11.856	8.700
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S.D.:

2.224	1.838	1.440	3.285	4.945	6.234	3.934	4.307	3.149	4.078	3.571	8.245
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OLOG TRANSFORMED DATA

MEAN:

1.069067	1.063019	1.059679	1.150770	1.337555	1.326509						
1.310328	1.313787	1.346539	1.356840	1.333446	1.238163						

S.D.:

0.070186	0.063998	0.049986	0.094956	0.109709	0.118786						
0.088415	0.090806	0.062689	0.076789	0.074273	0.162457						

0 EXISTING SITE NO. 27 RAIN SANTA ROSA (SRO)

ORIGINAL SITE NO. 26

TOTAL NO. OF DATA POINTS 180

NUMBER OF OVERLAP POINTS = 180

1	2	3	4	5	6	7	8	9	10
11	12								

ONON TRANSFORMED DATA

MEAN:

1.387	0.540	0.867	4.173	9.480	11.973	10.627	11.253	12.467	13.273	11.600	5.327
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S.D.:

2.497	1.169	0.864	3.503	2.592	4.221	2.013	3.230	3.729	4.553	3.147	4.846
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OLOG TRANSFORMED DATA

MEAN:

1.048709	1.020653	1.034779	1.140147	1.285550	1.333059						
1.312310	1.322358	1.345785	1.358657	1.330165	1.167583						

S.D.:

0.075757	0.041474	0.033480	0.095758	0.060222	0.089952				
0.043165	0.066557	0.070215	0.084272	0.060014	0.118993				
CORRELATION									
0	OSITE NO. 1								
0	LAG ONE CORRELATION =0.053962								NO. OF DATA POINTS USED = 1079.
0	OSITE NO. 2								NO. OF DATA POINTS USED = 1079.
0	LAG ONE CORRELATION =0.093152								NO. OF DATA POINTS USED = 1079.
0	OSITE NO. 3								NO. OF DATA POINTS USED = 1079.
0	LAG ONE CORRELATION =0.076675								NO. OF DATA POINTS USED = 1079.
0	OSITE NO. 4								NO. OF DATA POINTS USED = 1079.
0	LAG ONE CORRELATION =0.088223								NO. OF DATA POINTS USED = 1079.
0	OSITE NO. 5								NO. OF DATA POINTS USED = 1079.
0	LAG ONE CORRELATION =0.029960								NO. OF DATA POINTS USED = 1079.
0	OSITE NO. 6								NO. OF DATA POINTS USED = 1048.
0	LAG ONE CORRELATION =0.085932								NO. OF DATA POINTS USED = 1047.
0	OSITE NO. 7								NO. OF DATA POINTS USED = 1047.
0	LAG ONE CORRELATION =0.059963								NO. OF DATA POINTS USED = 1038.
0	OSITE NO. 8								NO. OF DATA POINTS USED = 1038.
0	LAG ONE CORRELATION =0.096079								NO. OF DATA POINTS USED = 930.
0	OSITE NO. 9								NO. OF DATA POINTS USED = 908.
0	LAG ONE CORRELATION =0.116457								NO. OF DATA POINTS USED = 908.
0	OSITE NO. 10								NO. OF DATA POINTS USED = 784.
0	LAG ONE CORRELATION =0.111560								NO. OF DATA POINTS USED = 771.
0	OSITE NO. 11								NO. OF DATA POINTS USED = 778.
0	LAG ONE CORRELATION =0.099685								NO. OF DATA POINTS USED = 870.
0	OSITE NO. 12								NO. OF DATA POINTS USED = 819.
0	LAG ONE CORRELATION =0.058532								NO. OF DATA POINTS USED = 665.
0	OSITE NO. 13								NO. OF DATA POINTS USED = 614.
0	LAG ONE CORRELATION =0.109565								NO. OF DATA POINTS USED = 608.
0	OSITE NO. 14								NO. OF DATA POINTS USED = 582.
0	LAG ONE CORRELATION =0.140161								NO. OF DATA POINTS USED = 415.
0	OSITE NO. 15								NO. OF DATA POINTS USED = 390.
0	LAG ONE CORRELATION =0.110407								NO. OF DATA POINTS USED = 390.
0	OSITE NO. 16								NO. OF DATA POINTS USED = 440.
0	LAG ONE CORRELATION =0.181883								NO. OF DATA POINTS USED = 412.
0	OSITE NO. 17								NO. OF DATA POINTS USED = 376.
0	LAG ONE CORRELATION =0.176717								NO. OF DATA POINTS USED = 490.
0	OSITE NO. 18								NO. OF DATA POINTS USED = 187.
0	LAG ONE CORRELATION =0.117008								NO. OF DATA POINTS USED = 179.
0	OSITE NO. 19								SPATIAL CORRELATION MATRIX
0	LAG ONE CORRELATION =0.072141								UNFILLED TRANSFORMED DATA SET
0	OSITE NO. 20								ALL SITES IN FINAL DATA SET
0	LAG ONE CORRELATION =0.309343								
0	OSITE NO. 21								
0	LAG ONE CORRELATION =0.102560								
0	OSITE NO. 22								
0	LAG ONE CORRELATION =0.174553								
0	OSITE NO. 23								
0	LAG ONE CORRELATION =0.102221								
0	OSITE NO. 24								
0	LAG ONE CORRELATION =0.185423								
0	OSITE NO. 25								
0	LAG ONE CORRELATION =0.075418								
0	OSITE NO. 26								
0	LAG ONE CORRELATION =0.232594								
0	OSITE NO. 27								
0	LAG ONE CORRELATION =0.162471								
1.000	0.475	0.541	0.515	0.428	0.366	0.547	0.348	0.350	0.426
0.422	0.313	0.344	0.495	0.547	0.494	0.404	0.447	0.403	0.541
0.312	0.418	0.399	0.391	0.712	0.271	0.706	0.163	0.146	0.056
-0.002	0.095	0.190	0.008	0.283	0.155	0.130	0.182	0.139	0.162
0.162	0.142	0.179	0.191	0.113	0.236	0.103	0.122	0.074	0.065
0.100	0.157	0.224	0.103						
0.000	1.000	0.456	0.437	0.457	0.512	0.448	0.489	0.515	0.474
0.468	0.502	0.450	0.539	0.702	0.632	0.556	0.432	0.429	0.600
0.284	0.429	0.421	0.350	0.418	0.363	0.534	0.043	0.227	0.025
-0.014	0.129	0.090	-0.002	0.170	0.122	0.117	0.122	0.129	0.173
0.071	0.134	0.175	0.161	0.009	0.143	0.128	0.057	-0.004	0.011
0.059	-0.002	0.111	0.070						
0.000	0.000	1.000	0.794	0.373	0.485	0.898	0.284	0.324	0.212
0.464	0.248	0.489	0.352	0.463	0.408	0.344	0.420	0.495	0.470
0.224	0.376	0.667	0.300	0.660	0.227	0.535	-0.029	0.066	0.048
-0.020	0.065	0.145	-0.020	0.127	0.084	-0.046	0.108	0.035	0.152

0.081	0.005	0.076	0.079	-0.043	0.161	0.023	0.123	0.012	-0.038
0.097	-0.034	0.118	-0.011						
0.000	0.000	0.000	1.000	0.281	0.424	0.751	0.295	0.386	0.211
0.348	0.278	0.367	0.325	0.437	0.406	0.354	0.296	0.348	0.446
0.212	0.352	0.622	0.194	0.654	0.193	0.534	-0.030	0.081	0.084
0.164	0.045	0.168	0.028	0.233	0.132	-0.025	0.154	0.040	0.177
0.094	0.008	0.103	0.083	0.005	0.177	0.016	0.129	0.043	0.039
0.085	-0.031	0.188	-0.023						
0.000	0.000	0.000	0.000	1.000	0.598	0.330	0.445	0.499	0.559
0.534	0.464	0.627	0.571	0.368	0.567	0.473	0.671	0.514	0.492
0.552	0.682	0.221	0.724	0.387	0.290	0.394	0.031	0.151	-0.033
-0.090	0.076	0.132	-0.002	0.161	0.067	0.137	-0.004	0.059	0.031
0.155	0.097	0.092	0.168	0.105	0.099	0.084	0.104	0.056	-0.015
0.109	0.011	0.000	0.087						
0.000	0.000	0.000	0.000	0.000	1.000	0.424	0.620	0.443	0.399
0.632	0.404	0.761	0.543	0.492	0.480	0.433	0.561	0.523	0.472
0.484	0.655	0.326	0.579	0.434	0.330	0.380	0.075	0.105	0.020
-0.029	0.050	0.151	0.012	0.218	0.057	0.082	0.036	0.015	0.105
0.080	0.096	0.105	0.032	0.049	0.127	0.048	0.088	0.043	-0.087
0.089	-0.014	0.061	0.114						
0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.264	0.280	0.241
0.357	0.259	0.398	0.304	0.418	0.350	0.332	0.361	0.463	0.399
0.215	0.347	0.735	0.271	0.611	0.240	0.541	-0.006	0.114	0.068
0.000	0.091	0.134	-0.005	0.139	0.098	-0.010	0.130	0.046	0.158
0.097	0.032	0.120	0.072	-0.001	0.148	0.077	0.141	0.035	-0.018
0.091	-0.014	0.177	-0.011						
0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.476	0.375	
0.572	0.400	0.524	0.403	0.463	0.464	0.423	0.409	0.382	0.488
0.361	0.450	0.129	0.427	0.244	0.192	0.355	0.108	0.122	0.039
0.068	0.063	0.178	0.052	0.341	0.102	0.049	0.057	0.060	0.105
0.026	0.095	0.157	0.111	0.044	0.062	0.158	0.077	-0.019	0.029
0.008	0.090	0.130	0.071						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.564	
0.370	0.839	0.411	0.561	0.516	0.808	0.812	0.456	0.402	0.614
0.521	0.569	0.285	0.526	0.340	0.252	0.357	-0.018	0.041	-0.076
-0.054	0.022	0.110	-0.064	0.181	-0.003	0.037	0.050	-0.010	0.080
0.060	0.072	0.036	0.003	0.075	0.079	-0.056	0.000	0.026	-0.028
-0.005	-0.041	-0.030	-0.034						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	
0.323	0.571	0.301	0.692	0.444	0.539	0.538	0.496	0.422	0.467
0.492	0.534	0.238	0.554	0.237	0.208	0.371	0.088	0.126	0.017
-0.072	0.084	0.082	0.039	0.147	0.010	0.103	0.079	0.049	0.003
0.075	0.195	0.096	0.101	0.101	0.170	0.069	0.034	0.014	0.048
0.055	0.012	0.099	0.033						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.000	0.327	0.633	0.452	0.488	0.370	0.379	0.521	0.517	0.406
0.347	0.484	0.304	0.502	0.342	0.230	0.383	-0.039	0.096	-0.031
-0.018	-0.024	0.118	-0.041	0.152	0.060	0.040	0.007	0.051	0.032
0.051	-0.014	0.034	0.106	-0.089	-0.003	0.022	0.081	-0.059	0.033
0.009	-0.032	0.087	-0.009						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	1.000	0.384	0.523	0.446	0.739	0.796	0.417	0.339	0.553
0.526	0.502	0.305	0.516	0.339	0.242	0.332	0.084	0.069	-0.068
-0.068	0.081	0.167	-0.044	0.180	-0.001	0.159	0.109	0.042	0.124
0.158	0.114	0.095	0.042	0.143	0.146	0.043	0.071	0.077	0.005
0.092	0.053	0.062	0.046						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.000	0.425	0.399	0.450	0.429	0.558	0.569	0.485
0.462	0.631	0.329	0.527	0.400	0.253	0.357	0.052	0.153	0.021
-0.010	-0.003	0.113	0.027	0.146	0.116	0.151	0.043	0.106	0.048
0.126	0.115	0.150	0.135	0.003	0.036	0.122	0.081	-0.003	0.002
0.085	-0.001	0.027	0.176						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.000	0.555	0.568	0.540	0.593	0.518	0.507	
0.542	0.641	0.281	0.554	0.418	0.277	0.485	0.056	0.135	0.046
-0.068	0.122	0.143	0.000	0.125	0.057	0.045	0.081	0.053	0.125
0.122	0.208	0.140	0.088	0.133	0.194	0.108	0.048	0.068	-0.004
0.048	0.068	0.151	0.044						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	1.000	0.632	0.498	0.385	0.465	0.732	
0.317	0.421	0.412	0.381	0.437	0.300	0.550	0.132	0.190	0.113
0.085	0.141	0.187	0.068	0.261	0.163	0.144	0.177	0.116	0.205
0.156	0.217	0.155	0.120	0.084	0.186	0.101	0.103	0.092	0.119
0.073	0.060	0.103	0.084						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	1.000	0.837	0.570	0.463	0.740	

0.483	0.591	0.367	0.560	0.507	0.365	0.523	0.053	0.126	-0.032
-0.066	0.058	0.140	-0.045	0.171	0.086	0.076	0.090	0.070	0.136
0.118	0.089	0.141	0.144	0.201	0.151	0.010	0.095	0.089	0.030
0.053	0.037	0.055	0.006						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	1.000	0.492	0.442	0.616	
0.464	0.525	0.412	0.519	0.431	0.288	0.430	0.045	0.080	-0.047
-0.075	0.064	0.134	-0.030	0.170	0.056	0.085	0.099	0.077	0.125
0.117	0.092	0.125	0.127	0.138	0.134	0.015	0.077	0.084	0.019
0.065	0.019	0.009	0.017						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.653	0.435	
0.485	0.756	0.251	0.661	0.447	0.244	0.395	0.030	0.068	-0.018
-0.141	-0.008	0.031	-0.007	0.126	0.021	-0.035	0.004	0.048	0.018
0.021	0.009	0.097	0.150	0.153	0.099	-0.024	0.021	0.000	-0.015
0.025	0.016	0.056	0.004						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.402	
0.388	0.591	0.386	0.534	0.375	0.309	0.394	-0.070	0.084	-0.007
-0.070	-0.020	0.012	0.013	0.093	0.092	-0.003	-0.034	0.054	-0.027
0.067	0.080	0.098	0.114	0.028	0.085	-0.022	0.017	0.020	0.021
-0.010	0.017	0.055	0.003						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	
0.414	0.484	0.376	0.454	0.507	0.322	0.558	0.152	0.180	0.049
0.038	0.176	0.196	0.032	0.255	0.188	0.189	0.197	0.160	0.194
0.169	0.186	0.186	0.176	0.169	0.159	0.136	0.093	0.120	0.054
0.125	0.046	0.127	0.098						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.000	0.641	0.167	0.710	0.260	0.241	0.241	0.147	0.150	0.049
0.005	0.103	0.150	0.052	0.217	0.140	0.193	0.063	0.191	0.084
0.174	0.140	0.177	0.238	0.132	0.139	0.058	0.086	0.096	0.103
0.113	0.088	0.104	0.118						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	1.000	0.298	0.791	0.414	0.253	0.421	0.065	0.153	0.070
0.022	0.018	0.100	0.073	0.136	0.077	0.077	0.060	0.096	0.061
0.087	0.162	0.163	0.187	0.179	0.122	0.063	0.039	0.086	0.056
0.094	0.049	0.047	0.061						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.000	0.198	0.537	0.424	0.452	-0.040	0.101	0.085
0.043	0.060	0.102	0.052	-0.003	0.017	0.013	0.069	-0.015	0.094
0.039	0.011	0.029	0.021	-0.045	0.117	-0.047	0.053	-0.035	0.029
0.032	-0.004	0.148	-0.032						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	1.000	0.305	0.224	0.323	0.110	0.115	0.042
-0.044	0.065	0.140	0.087	0.158	0.114	0.172	0.002	0.156	0.005
0.185	0.099	0.151	0.240	0.163	0.088	0.069	0.045	0.100	0.098
0.103	0.093	0.051	0.095						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	1.000	0.278	0.629	0.156	0.075	-0.025
-0.037	0.053	0.129	-0.090	0.205	0.089	0.011	0.123	0.131	0.128
0.119	-0.008	0.131	0.112	0.091	0.086	0.010	0.119	0.040	-0.094
0.086	0.169	0.168	0.051						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	1.000	0.160	0.010	0.081	0.023	
-0.039	0.040	-0.059	0.063	-0.047	-0.053	-0.027	-0.030	-0.036	0.075
-0.008	-0.027	-0.030	-0.007	-0.009	0.017	-0.086	0.009	-0.072	0.115
-0.059	0.091	0.066	0.010						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	1.000	0.090	0.170	0.068		
0.066	0.141	0.225	-0.003	0.249	0.175	0.097	0.156	0.149	0.221
0.142	0.142	0.223	0.229	0.182	0.255	0.192	0.154	0.142	0.058
0.125	0.084	0.227	0.078						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	1.000	0.483	0.541		
0.519	0.436	0.376	0.547	0.360	0.360	0.430	0.430	0.326	0.352
0.500	0.552	0.501	0.411	0.455	0.399	0.536	0.314	0.428	0.400
0.402	0.716	0.298	0.711						

0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.460	
0.443	0.456	0.508	0.446	0.489	0.518	0.479	0.471	0.507	0.451	
0.545	0.704	0.637	0.559	0.433	0.427	0.604	0.290	0.431	0.423	
0.347	0.421	0.384	0.534							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	
0.794	0.368	0.483	0.900	0.286	0.328	0.218	0.461	0.252	0.493	
0.359	0.469	0.412	0.350	0.426	0.484	0.472	0.227	0.382	0.673	
0.299	0.654	0.250	0.536							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.000	0.286	0.429	0.752	0.304	0.395	0.221	0.356	0.291	0.374	
0.335	0.444	0.416	0.364	0.306	0.339	0.446	0.218	0.363	0.624	
0.203	0.655	0.225	0.539							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	1.000	0.598	0.325	0.454	0.505	0.560	0.545	0.475	0.627	
0.571	0.368	0.572	0.474	0.668	0.511	0.481	0.538	0.682	0.215	
0.729	0.397	0.315	0.398							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.000	0.412	0.624	0.455	0.400	0.632	0.419	0.760	
0.551	0.494	0.488	0.443	0.568	0.519	0.486	0.504	0.659	0.322	
0.575	0.437	0.362	0.384							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	1.000	0.261	0.282	0.250	0.358	0.261	0.397	
0.310	0.420	0.355	0.334	0.360	0.452	0.398	0.207	0.347	0.737	
0.267	0.607	0.251	0.537							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	1.000	0.488	0.381	0.581	0.417	0.528	
0.413	0.466	0.475	0.432	0.416	0.379	0.490	0.370	0.458	0.128	
0.435	0.255	0.223	0.362							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	1.000	0.565	0.379	0.843	0.420	
0.568	0.522	0.812	0.815	0.466	0.396	0.616	0.529	0.578	0.290	
0.533	0.350	0.291	0.366							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	1.000	0.565	0.379	0.843	0.420	
0.692	0.449	0.543	0.540	0.498	0.416	0.461	0.479	0.538	0.246	
0.559	0.245	0.232	0.375							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	1.000	0.329	0.571	0.307		
0.529	0.452	0.743	0.797	0.428	0.336	0.552	0.530	0.512	0.305	
0.528	0.352	0.279	0.343							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.454	0.489	0.380	0.383	0.522	0.513	0.397	0.341	0.489	0.303	
0.516	0.356	0.258	0.389							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.341	0.635	
0.527	0.404	0.459	0.436	0.562	0.564	0.491	0.467	0.635	0.332	
0.527	0.404	0.280	0.361							
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	1.000								
REGRESSION ANALYSIS											
0	SITE NO. 1	NO. OF INDEP VAR. 1									
	NO. OF LEAST SQUARES OBS.	1079.									
	VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.										
OREGRESSION COEFFICIENTS											
0	0.053932										
0INTERCEPT =-.0016 MULTIPLE REGRESSION COEFF = 0.053999											
0	SITE NO. 2	NO. OF INDEP VAR. 3									
	NO. OF LEAST SQUARES OBS.	1079.									
	VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.										
OREGRESSION COEFFICIENTS											
0	0.347200	0.031915	0.012930								
0INTERCEPT =0.0002 MULTIPLE REGRESSION COEFF = 0.354686											
0	SITE NO. 3	NO. OF INDEP VAR. 5									
	NO. OF LEAST SQUARES OBS.	1079.									
	VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.										
OREGRESSION COEFFICIENTS											
0	0.197555	0.574075	0.025980	0.013323	0.009823						
0INTERCEPT =0.0001 MULTIPLE REGRESSION COEFF = 0.674795											
0	SITE NO. 4	NO. OF INDEP VAR. 7									
	NO. OF LEAST SQUARES OBS.	1079.									
	VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.										
OREGRESSION COEFFICIENTS											
0	0.214068	0.105122	0.282977	0.073019	-0.018556	0.030405	-0.019004				
0INTERCEPT =-.0011 MULTIPLE REGRESSION COEFF = 0.515972											
0	SITE NO. 5	NO. OF INDEP VAR. 9									
	NO. OF LEAST SQUARES OBS.	1079.									
	VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.										
OREGRESSION COEFFICIENTS											
0	-0.015579	0.314601	0.365558	0.159622	-0.005482	0.021908	-0.002845				
	-0.056769	0.018968									
0INTERCEPT =0.0000 MULTIPLE REGRESSION COEFF = 0.664003											
0	SITE NO. 6	NO. OF INDEP VAR.11									
	NO. OF LEAST SQUARES OBS.	1048.									
	VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.										
OREGRESSION COEFFICIENTS											
0	-0.026092	0.652132	0.141246	0.033067	0.127646	0.016338	-0.001861				
	-0.003780	-0.007944	-0.014614	0.031572							
0INTERCEPT =0.0030 MULTIPLE REGRESSION COEFF = 0.801122											
0	SITE NO. 7	NO. OF INDEP VAR.13									
	NO. OF LEAST SQUARES OBS.	1016.									
	VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.										
OREGRESSION COEFFICIENTS											
0	0.267647	-0.012996	0.483174	-0.003719	0.057862	0.061370	0.002959				
	0.034998	0.024920	-0.025367	-0.003019	0.024152	-0.030364					
0INTERCEPT =0.0002 MULTIPLE REGRESSION COEFF = 0.757134											
0	SITE NO. 8	NO. OF INDEP VAR.15									
	NO. OF LEAST SQUARES OBS.	983.									
	VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.										
OREGRESSION COEFFICIENTS											
0	0.116060	0.094125	0.041670	0.091354	0.062704	0.047827	0.421328				
	0.072998	-0.003466	0.017391	-0.033445	0.015967	0.005407	-0.009916				

-0.034566
0INTERCEPT =0.0032 MULTIPLE REGRESSION COEFF = 0.694206

0 SITE NO. 9 NO. OF INDEP VAR.17
NO. OF LEAST SQUARES OBS. 880.
VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.
OREGRESSION COEFFICIENTS
0 0.117851 0.040457 0.241974 0.086538 0.107963 0.171266 0.052600
0.050177 0.075466 -0.011580 -0.031605 0.035047 0.024579 0.005648

-0.060158 0.012894 -0.049683
0INTERCEPT =0.0026 MULTIPLE REGRESSION COEFF = 0.672937

0 SITE NO.10 NO. OF INDEP VAR.19
NO. OF LEAST SQUARES OBS. 724.
VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.
OREGRESSION COEFFICIENTS
0 0.313535 -0.022638 -0.015341 0.478838 0.017794 0.076624 0.079601
-0.004752 0.025631 0.101133 -0.017153 -0.029768 0.008679 -0.083585
0.028703 0.021081 0.006148 -0.005866 -0.012575
0INTERCEPT =0.0152 MULTIPLE REGRESSION COEFF = 0.820492

0 SITE NO.11 NO. OF INDEP VAR.21
NO. OF LEAST SQUARES OBS. 620.
VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.
OREGRESSION COEFFICIENTS
0 0.018424 0.067695 0.378123 0.027951 0.069223 0.077925 0.184870
-0.027839 0.042418 0.057609 0.068182 0.113347 -0.031971 -0.075398
0.060602 0.054190 -0.022405 -0.191527 -0.069663 0.031467 0.028434
0INTERCEPT =0.0347 MULTIPLE REGRESSION COEFF = 0.703736

0 SITE NO.12 NO. OF INDEP VAR.23
NO. OF LEAST SQUARES OBS. 618.
VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.
OREGRESSION COEFFICIENTS
0 0.661560 0.095239 -0.007972 0.238453 -0.020003 -0.067007 -0.041766
0.040486 0.024179 0.062409 0.015246 0.066151 -0.090763 -0.024794
0.007557 -0.018590 0.019673 -0.028081 0.059884 0.022755 0.013132
0.018107 -0.067322
0INTERCEPT =-.0083 MULTIPLE REGRESSION COEFF = 0.884936

0 SITE NO.13 NO. OF INDEP VAR.25
NO. OF LEAST SQUARES OBS. 618.
VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.
OREGRESSION COEFFICIENTS
0 0.026514 0.115029 0.015181 0.074791 0.399820 -0.095343 0.001845
0.063597 0.073901 -0.073026 0.081467 0.209028 0.046595 0.102792
-0.097567 -0.048242 0.040044 0.010220 -0.065772 0.072460 0.014076
-0.014790 -0.005968 -0.013462 -0.017359
0INTERCEPT =0.0175 MULTIPLE REGRESSION COEFF = 0.749278

0 SITE NO.14 NO. OF INDEP VAR.27
NO. OF LEAST SQUARES OBS. 525.
VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.
OREGRESSION COEFFICIENTS
0 0.102530 -0.014789 0.111248 0.145747 0.054087 0.049441 0.121294
0.144231 -0.021592 0.095226 0.035271 0.017502 0.171977 0.120990

0.051287	0.052209	-0.103574	-0.087876	0.064250	0.023837	-0.063128
0.078657	-0.107705	-0.043009	0.079918	0.027674	-0.078239	
0INTERCEPT = 0.1266 MULTIPLE REGRESSION COEFF = 0.766305						

0 SITE NO.15 NO. OF INDEP VAR.29
 NO. OF LEAST SQUARES OBS. 522.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

OREGRESSION COEFFICIENTS

0	0.011239	-0.005598	-0.025421	0.050511	0.073651	0.175683	0.109665
	-0.042139	0.234293	-0.023946	0.207573	0.023744	0.106944	-0.000541
	0.095706	0.039112	-0.027505	-0.066141	-0.008635	-0.074848	-0.020358
	0.012497	0.025682	0.006010	-0.028233	0.024050	-0.090209	0.005246
	0.104683						
0INTERCEPT = -0.0209 MULTIPLE REGRESSION COEFF = 0.727118							

0 SITE NO.16 NO. OF INDEP VAR.31
 NO. OF LEAST SQUARES OBS. 522.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

OREGRESSION COEFFICIENTS

0	-0.027829	0.124683	-0.039843	0.213487	0.506972	0.012331	-0.008679
	-0.042749	0.016773	0.068697	0.006682	-0.025703	-0.027252	0.047070
	-0.001264	0.232553	0.000649	0.084526	-0.054628	-0.064761	-0.127160
	-0.066359	0.015063	-0.027718	0.001153	0.003907	-0.085575	-0.002037
	0.047354	0.016150	0.071617				
0INTERCEPT = -0.0488 MULTIPLE REGRESSION COEFF = 0.799549							

0 SITE NO.17 NO. OF INDEP VAR.33
 NO. OF LEAST SQUARES OBS. 448.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

OREGRESSION COEFFICIENTS

0	-0.045714	0.340777	0.025367	0.171726	-0.013765	0.109509	0.146490
	0.178622	-0.053204	0.037413	-0.076041	0.021100	-0.000022	0.034850
	0.015434	-0.007891	0.151810	-0.059636	-0.105746	-0.026524	-0.085172
	-0.107051	0.111283	-0.108531	-0.019981	0.123885	0.041756	0.053537
	0.025471	0.060568	-0.029143	0.061013	-0.029623		
0INTERCEPT = -0.0015 MULTIPLE REGRESSION COEFF = 0.745386							

0 SITE NO.18 NO. OF INDEP VAR.35
 NO. OF LEAST SQUARES OBS. 444.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

OREGRESSION COEFFICIENTS

0	-0.011096	0.116192	-0.104095	0.358996	0.009794	-0.043688	0.066570
	0.117567	0.036243	0.014911	0.136734	0.187591	-0.033020	-0.002626
	-0.031991	0.009839	0.059633	0.097049	0.003914	-0.036594	-0.018153
	-0.039758	0.024196	0.023467	0.013571	-0.031796	0.030827	-0.016930
	0.006500	-0.096382	0.018929	0.046885	-0.138274	-0.007241	0.065984
0INTERCEPT = -0.0536 MULTIPLE REGRESSION COEFF = 0.786761							

0 SITE NO.19 NO. OF INDEP VAR.37
 NO. OF LEAST SQUARES OBS. 436.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

OREGRESSION COEFFICIENTS

0	-0.019332	-0.001666	0.354408	0.047084	0.124152	0.011689	0.369004
	0.100280	-0.077425	0.027154	0.006814	0.089160	0.028474	-0.012564
	-0.019283	-0.008642	0.006910	-0.023805	0.100445	0.068622	0.012753
	-0.012271	-0.017549	-0.058225	0.017868	-0.059696	-0.026435	0.014570
	-0.001695	-0.006762	-0.018999	0.032961	0.048052	-0.045118	-0.018884

0.000761 -0.034401
 0INTERCEPT =0.0008 MULTIPLE REGRESSION COEFF = 0.887007

0 SITE NO.20 NO. OF INDEP VAR.39
 NO. OF LEAST SQUARES OBS. 362.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

REGRESSION COEFFICIENTS							
0	0.131348	0.135110	0.400954	-0.085636	0.114745	-0.075318	0.101104
	0.020054	0.017428	0.060252	0.027501	0.058641	0.008908	-0.114760
	0.036191	0.116395	-0.084551	-0.012418	0.002117	0.216943	0.015242
	0.015331	-0.060557	-0.081018	0.015248	-0.061397	-0.073345	0.064302
	-0.058738	0.042662	-0.006987	0.081849	0.024843	-0.093642	-0.037021

0.012215 0.053176 0.099288 0.024082
 0INTERCEPT =0.0527 MULTIPLE REGRESSION COEFF = 0.775667

0 SITE NO.21 NO. OF INDEP VAR.41
 NO. OF LEAST SQUARES OBS. 231.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

REGRESSION COEFFICIENTS							
0	-0.030175	0.082848	0.045771	-0.004735	-0.012770	0.072385	-0.088827
	0.062344	-0.157639	-0.034447	0.089910	0.080691	-0.003133	-0.037700
	-0.028525	0.504118	0.049219	0.220670	-0.018313	0.094986	0.031670
	0.047957	0.027427	-0.073716	0.064498	-0.027218	0.055926	0.083805
	-0.137918	0.142572	-0.131225	-0.073964	0.072960	0.114083	0.020456
	-0.021183	0.004845	-0.028519	-0.066122	0.029805	-0.069407	

0INTERCEPT =0.0471 MULTIPLE REGRESSION COEFF = 0.827216

0 SITE NO.22 NO. OF INDEP VAR.43
 NO. OF LEAST SQUARES OBS. 231.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

REGRESSION COEFFICIENTS							
0	0.080202	0.229034	-0.045176	0.000929	0.154443	-0.088420	0.342015
	0.082783	0.023655	-0.020141	0.070639	0.007004	-0.098448	-0.035360
	0.056902	0.101569	-0.048359	0.090415	0.092253	0.078758	-0.074749
	-0.014919	-0.002248	0.055106	0.087880	-0.036990	-0.080807	-0.094578
	0.009447	0.005321	0.050760	0.154760	-0.203682	-0.035883	0.105580
	-0.108424	-0.016943	0.053778	-0.011645	0.034926	-0.068285	-0.000949

0.077241
 0INTERCEPT =0.0925 MULTIPLE REGRESSION COEFF = 0.859781

0 SITE NO.23 NO. OF INDEP VAR.45
 NO. OF LEAST SQUARES OBS. 231.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

REGRESSION COEFFICIENTS							
0	-0.008865	0.080865	0.001587	0.072047	0.166270	0.034839	-0.074781

0.219833	0.045083	-0.107242	0.229429	-0.113314	0.151228	-0.082434
-0.010344	-0.028787	-0.006380	-0.126469	0.345800	0.072471	0.057556
0.008554	0.044995	0.066406	0.048095	-0.011333	0.176933	0.031258
-0.097796	-0.220668	-0.030719	0.029581	-0.026065	-0.146915	0.131883
-0.042745	0.055744	0.063666	0.025954	-0.144564	-0.038764	0.106718
-0.063938	-0.030745	0.052420				

OINTERCEPT = 0.0951 MULTIPLE REGRESSION COEFF = 0.851279

0 SITE NO.24 NO. OF INDEP VAR.47
NO. OF LEAST SQUARES OBS. 231.
VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.
OREGRESSION COEFFICIENTS
0 -0.109255 -0.011078 0.432384 -0.007480 0.266125 0.046827 0.000305
-0.102284 0.120611 0.068844 -0.049455 -0.010156 -0.067547 -0.031201
-0.055816 0.013155 -0.033525 0.024569 0.026948 -0.011694 0.429873
0.020117 -0.010642 0.458516 -0.016128 -0.042340 -0.098692 0.069894
-0.038393 -0.028534 -0.024568 -0.055227 0.060613 0.043345 -0.059962
0.088653 0.054606 -0.065668 0.067828 -0.076083 0.009009 0.033041
0.024238 0.044092 -0.320023 0.027727 -0.055893

OINTERCEPT = 0.0873 MULTIPLE REGRESSION COEFF = 0.892474

0 SITE NO.25 NO. OF INDEP VAR.49
NO. OF LEAST SQUARES OBS. 222.
VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.
OREGRESSION COEFFICIENTS
0 0.251861 -0.007719 -0.021321 0.664271 -0.039570 0.023074 -0.113957
0.138564 -0.060004 0.051720 0.031885 -0.012271 0.084276 -0.038637
0.046979 -0.019886 0.130527 -0.046913 0.020687 0.007964 0.002292
0.079119 -0.059065 -0.089768 0.062223 -0.094176 0.063339 0.038509
0.001545 -0.023781 0.036335 -0.049699 -0.049168 -0.007318 -0.031080
-0.001367 0.047907 -0.074505 0.075810 -0.099877 0.130317 -0.083135
0.069810 -0.031932 -0.026502 0.004649 0.056586 -0.045224 0.038970

OINTERCEPT = 0.0499 MULTIPLE REGRESSION COEFF = 0.941688

0 SITE NO.26 NO. OF INDEP VAR.51
NO. OF LEAST SQUARES OBS. 160.
VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.
OREGRESSION COEFFICIENTS
0 -0.064627 0.138699 0.102684 0.063758 0.121514 0.125980 -0.107929
0.065768 -0.017850 0.127171 -0.055871 0.020754 0.482688 0.132183
0.171930 0.069944 0.012298 -0.133105 -0.184777 0.036870 -0.155846
-0.098237 -0.073242 0.147424 0.043633 0.219560 0.068482 0.084889
-0.001805 -0.044669 -0.031394 -0.183147 -0.116895 0.107246 0.066603
0.147853 0.070171 -0.063422 -0.219817 -0.018804 0.111576 -0.224139
0.061548 0.129372 -0.124669 -0.058198 -0.238306 0.129353 -0.064945
0.086995 0.080827

OINTERCEPT = -0.2309 MULTIPLE REGRESSION COEFF = 0.856571

0 SITE NO.27 NO. OF INDEP VAR.53
 NO. OF LEAST SQUARES OBS. 152.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

REGRESSION COEFFICIENTS
 0 -0.022869 -0.290844 0.032101 -0.106494 -0.370995 0.467303 0.044138
 0.020496 0.175320 0.235652 -0.228711 0.039819 0.003084 0.116073
 0.052269 0.020477 0.059731 -0.097519 0.031820 0.003074 0.019780
 -0.285945 0.146278 0.479879 0.163790 0.250512 -0.118857 -0.119586
 0.002102 -0.119008 -0.055863 0.096642 0.060059 0.034892 0.149270
 0.199413 -0.003801 -0.171239 0.001728 -0.055605 0.159389 0.010344
 -0.046436 -0.164002 0.212915 -0.123718 -0.013254 -0.051640 -0.064460
 0.039319 0.105097 0.034879 0.127807
 0 INTERCEPT = 0.1014 MULTIPLE REGRESSION COEFF = 0.884749

SITE NO.=	1	RAIN	ALHAJUELA (ALA)	1911	0.14	2.29	0.01	4.88	16.11	10.53	8.84	10.79	9.29	13.39	13.39	0.39
1912	0.08	0.33	0.02	0.20	13.43	12.17	10.17	12.87	9.12	13.52	9.62	2.20				
1913	0.96	0.22	0.08	0.72	12.63	11.51	6.99	10.92	8.82	6.41	16.56	1.59				
1914	0.09	0.22	0.05	1.68	5.66	12.55	7.21	12.36	16.98	22.91	7.56	2.25				
1915	0.86	2.53	0.06	8.94	8.20	8.09	15.71	10.29	9.60	16.61	11.93	5.87				
1916	0.66	1.34	0.37	5.84	12.40	14.00	12.07	10.99	14.96	19.32	14.77	3.29				
1917	0.11	0.04	0.16	1.09	17.17	8.70	12.90	13.31	9.92	13.72	19.83	6.41				
1918	0.93	0.14	0.02	6.80	11.34	15.76	8.79	9.16	11.07	12.03	6.94	0.27				
1919	0.75	0.04	0.07	9.06	6.11	6.87	13.46	8.11	9.35	15.46	9.79	2.44				
1920	0.52	0.15	0.20	0.83	4.46	11.16	20.83	14.17	8.90	25.20	10.15	2.63				
1921	0.18	1.79	0.27	0.96	10.76	9.57	17.53	14.74	11.41	21.53	9.24	3.07				
1922	3.95	0.16	0.00	0.17	12.52	13.85	7.59	9.92	8.31	16.74	11.15	4.38				
1923	0.68	0.17	0.18	0.12	12.89	14.99	5.69	12.11	14.61	27.71	6.13	0.84				
1924	0.03	1.81	0.12	4.56	12.43	8.48	15.22	8.87	9.31	13.21	14.36	4.84				
1925	2.55	0.02	0.20	4.84	6.49	8.38	12.74	8.54	8.95	12.20	13.36	2.13				
1926	0.07	0.52	0.04	0.01	3.23	14.02	16.62	17.27	13.46	14.49	11.10	5.09				
1927	0.66	0.46	0.12	5.15	13.19	20.51	14.41	11.06	8.66	7.19	13.12	3.27				
1928	0.72	0.15	3.00	2.20	5.25	7.37	9.65	19.71	7.89	13.61	21.41	4.04				
1929	0.21	0.04	0.72	2.19	8.58	12.55	13.98	16.03	11.69	18.63	10.69	3.50				
1930	0.25	0.37	0.54	6.90	11.49	5.67	14.32	9.11	12.63	10.15	3.08	0.88				
1931	0.24	0.13	2.35	2.19	11.08	13.72	12.81	9.06	17.52	8.03	29.23	4.65				
1932	1.06	0.22	0.38	5.74	17.55	11.49	6.79	11.55	10.18	17.49	22.41	4.97				
1933	1.01	0.00	2.47	0.23	12.11	10.75	10.34	12.68	11.02	7.54	14.59	7.77				
1934	1.41	0.17	0.12	4.47	18.77	11.66	9.60	11.21	10.35	18.51	20.55	5.98				
1935	0.84	0.46	0.12	1.61	14.35	13.30	22.52	14.56	13.94	14.84	33.32	6.07				
1936	0.08	0.07	0.09	1.02	12.00	6.88	13.00	8.82	15.62	14.03	9.99	0.63				
1937	1.52	0.23	0.13	0.90	10.98	10.39	9.48	14.43	10.87	13.51	17.53	18.51				
1938	0.20	0.06	0.63	3.87	13.26	15.92	7.97	9.80	7.45	15.52	12.73	14.25				
1939	0.02	0.01	0.06	0.11	3.29	11.16	7.05	11.93	11.84	14.82	18.47	7.53				
1940	2.16	0.55	0.05	0.15	5.59	6.99	7.73	12.24	14.46	16.90	10.37	1.79				
1941	0.55	3.01	0.37	4.07	9.67	9.04	13.87	7.92	11.32	14.63	7.81	1.76				
1942	0.98	0.28	0.42	6.27	12.13	12.96	8.41	9.06	9.41	17.22	7.30	15.13				
1943	3.81	0.96	0.27	5.12	14.55	17.11	8.95	6.47	8.16	11.12	9.95	12.49				
1944	0.70	0.04	0.06	4.96	10.79	4.92	11.37	16.93	8.09	22.92	10.66	6.63				
1945	0.20	0.02	0.04	1.05	12.44	5.95	13.28	11.79	14.08	9.44	10.54	8.58				
1946	0.44	0.14	0.20	0.14	11.16	16.92	11.59	4.32	7.79	6.44	10.64	9.84				
1947	0.01	0.25	0.02	2.96	6.04	11.62	11.26	11.91	10.46	12.36	9.01	6.23				
1948	0.14	0.01	0.18	0.36	12.37	10.16	11.99	3.74	7.95	13.41	16.84	1.87				
1949	0.16	0.12	0.03	1.88	8.74	18.80	8.35	10.09	5.96	15.53	14.08	4.45				
1950	0.08	0.18	0.27	2.26	10.12	13.00	15.15	11.40	8.34	8.88	17.86	8.62				
1951	0.17	2.54	0.05	5.53	17.15	8.46	10.83	12.72	8.35	9.43	13.63	2.96				
1952	0.96	0.19	0.00	1.49	11.95	15.81	15.15	7.71	10.94	16.86	3.95	12.19				
1953	3.11	0.88	0.14	3.33	15.75	6.48	16.44	5.03	7.14	11.28	12.21	3.65				
1954	0.47	0.29	0.62	3.38	12.47	8.70	16.58	17.09	11.30	12.38	9.32	1.61				
1955	5.11	0.30	0.46	0.09	6.88	9.12	13.84	13.72	9.17	8.72	18.92	5.59				
1956	4.24	0.49	2.66	3.49	13.70	8.74	12.74	14.77	15.42	20.05	14.60	1.32				
1957	0.03	0.08	0.03	0.02	7.19	10.64	11.98	10.30	9.24	16.02	12.40	0.99				
1958	2.05	0.27	0.90	1.46	13.27	7.67	13.37	10.42	9.62	8.89	9.78	1.63				
1959	0.57	0.00	0.02	0.20	4.95	9.36	5.20	10.65	6.44	6.39	5.05	8.97				
1960	1.23	0.06	1.75	3.97	11.87	11.03	12.80	11.66	10.51	14.32	12.93	14.02				
1961	0.11	0.02	1.04	5.80	7.40	15.41	8.23	13.80	14.79	13.74	12.74	6.36				
1962	0.51	0.00	1.45	1.07	11.14	9.23	12.46	9.65	13.00	18.99	8.05	5.11				

1963	5.19	1.21	0.12	5.56	5.21	12.94	9.75	18.13	19.06	10.22	14.64	0.80
1964	0.13	0.04	0.41	7.69	9.95	12.15	14.17	10.11	10.97	13.08	12.88	1.78
1965	0.69	0.02	0.01	0.03	10.85	9.09	7.88	10.30	11.19	11.39	19.73	6.32
1966	0.28	0.32	0.21	2.53	14.00	10.74	9.32	8.21	13.89	7.95	24.93	14.35
1967	0.75	0.20	0.05	2.53	5.44	14.20	17.46	12.93	20.08	12.91	13.10	3.22
1968	0.00	1.80	0.21	1.59	13.38	18.31	9.81	19.50	15.03	11.87	13.02	3.31
1969	1.16	0.17	1.58	7.39	4.93	8.30	11.55	10.83	16.07	10.64	12.05	4.38
1970	5.11	0.24	1.62	7.32	14.08	8.80	12.90	11.50	14.40	12.00	14.40	10.20
1971	4.90	0.10	2.60	0.70	12.60	10.50	13.50	16.10	12.80	17.80	10.60	0.30
1972	6.00	0.20	1.50	8.40	10.10	11.70	6.80	7.40	16.50	12.80	8.20	4.00
1973	0.40	0.00	0.00	1.10	8.80	9.70	9.70	5.10	14.50	10.10	14.70	4.10
1974	0.10	0.00	0.60	0.50	8.30	18.20	8.90	9.80	8.70	13.90	8.10	1.20
1975	0.50	0.10	0.90	0.20	7.90	9.80	18.30	11.80	10.30	18.70	9.70	7.70
1976	0.30	0.00	0.00	2.20	6.50	10.70	3.30	4.80	10.40	15.00	7.40	0.30
1977	0.20	0.40	0.00	0.10	14.20	9.40	5.40	18.60	12.60	15.40	6.90	5.70
1978	0.40	0.50	0.80	9.30	8.30	10.20	10.10	12.50	8.20	14.50	11.60	2.40
1979	0.00	0.20	0.00	11.30	9.10	8.90	12.00	13.00	4.30	13.00	14.00	2.00
1980	2.60	0.80	0.00	0.90	11.90	12.80	10.80	17.10	9.10	13.50	12.50	3.00
1981	0.90	0.10	2.30	11.20	13.50	13.30	13.70	9.70	4.00	9.50	13.70	6.70
1982	3.30	0.20	0.00	2.90	9.20	9.10	9.60	3.10	11.20	14.40	6.30	0.10
1983	0.30	0.00	0.00	3.10	10.90	7.80	7.30	8.00	17.40	20.10	15.80	4.20
1984	0.50	0.40	0.90	2.20	11.30	11.90	6.70	15.70	13.10	15.50	17.20	0.40
1985	0.70	0.50	0.60	0.90	14.40	13.30	9.10	8.60	21.10	9.50	14.60	8.20
1986	0.60	0.30	3.10	4.90	2.60	14.20	5.70	7.30	7.70	20.40	8.50	1.00
1987	0.10	0.20	0.40	12.30	8.50	14.90	12.20	10.50	16.60	15.30	8.00	4.00
1988	0.00	0.10	0.10	4.20	5.70	11.80	18.30	11.10	13.10	15.30	13.00	3.30
1989	0.00	0.50	0.20	0.20	3.40	7.70	6.60	8.60	8.30	15.60	15.20	4.80
1990	0.50	0.10	0.10	0.10	8.40	4.90	10.40	13.10	8.90	25.80	10.20	9.20
1991	0.80	0.20	1.10	4.60	12.30	16.90	17.00	10.60	11.20	12.70	11.30	0.90
1992	0.20	0.00	1.10	4.70	9.50	12.20	10.70	13.50	18.40	9.80	8.20	2.60
1993	3.00	0.20	2.00	6.20	8.80	13.10	8.40	8.30	17.60	14.90	16.30	2.50
1994	0.90	0.00	1.00	1.40	8.80	12.80	7.70	10.10	10.10	18.10	12.40	1.20
1995	0.20	0.00	0.50	3.60	9.80	9.60	10.70	13.80	12.60	12.10	15.70	6.90
1996	13.60	1.20	1.90	3.70	10.30	8.10	6.80	11.30	9.00	11.00	14.10	3.30
1997	0.00	0.00	0.20	3.60	14.10	13.80	7.30	7.00	10.80	8.80	8.30	0.20
1998	0.00	0.10	0.00	2.00	9.00	13.50	13.80	13.10	13.40	8.00	14.50	10.00
1999	2.10	5.70	0.10	5.20	7.20	16.50	8.50	16.20	10.00	12.00	17.90	23.10
2000	1.10	0.00	0.90	2.20	9.90	12.20	11.00	13.00	8.00	12.30	7.90	12.70

SITE NO.=	2	RAIN	BALBOA	HEIGHT	(BHT)							
1911	0.83	2.75	0.26	6.34	11.04	3.40	5.78	7.21	6.03	10.90	7.57	1.99
1912	0.00	0.08	0.01	2.68	10.71	5.80	10.25	6.33	8.38	17.89	6.38	3.27
1913	0.63	0.22	0.43	0.03	8.27	8.15	4.85	8.20	11.43	8.30	10.63	4.84
1914	0.32	0.02	0.00	4.80	6.98	7.28	4.32	6.09	9.60	6.44	10.35	8.28
1915	2.12	2.96	0.00	5.37	6.42	2.85	6.93	15.24	3.69	10.49	7.05	3.60
1916	1.41	1.48	0.89	2.84	12.59	4.39	10.13	10.53	8.02	10.17	8.77	5.86
1917	0.13	0.19	0.02	2.24	5.75	7.35	10.17	7.42	11.53	6.14	13.77	4.09
1918	1.78	0.00	1.25	4.52	6.75	5.20	5.13	3.84	7.03	9.16	9.61	0.55
1919	0.28	0.00	0.00	6.43	5.21	8.93	4.75	5.82	10.84	12.11	4.97	1.81
1920	0.00	0.00	0.09	3.02	3.31	4.83	6.18	12.22	9.14	6.48	19.22	1.94
1921	0.88	2.37	2.98	1.19	8.60	7.86	8.07	9.51	3.27	13.86	7.11	5.19
1922	1.73	2.03	1.02	0.16	9.88	7.92	5.08	1.46	8.18	9.03	8.44	3.82
1923	0.80	0.00	0.00	0.83	5.84	5.59	3.15	5.37	4.60	15.02	8.81	3.94
1924	0.00	0.05	0.07	3.72	5.51	8.41	5.97	14.46	12.55	10.38	12.36	8.31
1925	1.44	0.07	0.07	2.63	6.73	18.34	3.83	10.83	9.01	7.37	3.52	1.88
1926	0.01	0.07	0.00	0.08	4.16	12.33	9.93	10.45	8.41	9.93	9.63	8.38
1927	0.18	1.99	0.01	4.67	9.06	10.83	8.22	7.76	6.53	8.36	5.82	2.95
1928	0.02	0.32	4.07	3.38	4.20	8.78	7.91	6.87	10.44	10.70	20.51	6.95
1929	0.17	0.02	2.19	0.43	4.04	9.34	5.22	11.96	9.26	7.89	12.62	4.17
1930	0.05	0.85	0.01	6.78	9.70	2.50	4.04	4.34	7.61	8.24	5.12	2.44
1931	0.00	0.00	0.70	1.45	13.15	7.81	10.48	4.28	11.09	9.26	12.60	4.96
1932	0.38	0.46	0.13	7.56	9.39	9.23	6.29	7.61	7.23	11.60	10.18	2.66
1933	1.63	0.30	0.46	3.46	7.96	14.36	6.01	6.55	5.18	5.88	13.28	7.35
1934	4.04	0.07	0.20	5.09	4.96	10.85	5.39	4.52	16.38	11.44	12.89	2.71
1935	0.88	0.36	0.00	2.40	8.10	7.54	13.16	11.41	4.70	10.73	19.70	4.31
1936	0.83	0.00	0.36	1.64	6.36	9.12	5.94	6.14	8.62	9.48	8.29	1.84
1937	5.07	0.56	2.44	1.32	10.98	7.44	6.57	3.80	10.89	9.13	10.18	16.81
1938	2.20	0.01	0.25	1.93	12.03	9.49	7.52	11.82	8.23	12.72	11.23	7.91
1939	0.43	0.00	0.94	4.61	12.65	5.06	5.12	8.12	12.93	6.55	6.23	
1940	3.14	0.11	0.75	1.05	7.26	6.03	6.23	4.59	13.99	6.43	5.35	0.20
1941	0.87	0.53	0.17	4.74	9.03	5.96	6.05	11.65	8.01	12.74	7.53	5.40
1942	0.30	0.44	1.92	2.25	12.16	5.59	6.22	5.40	8.11	7.99	8.41	11.23
1943	1.20	0.89	1.50	3.60	6.68	10.75	6.49	6.50	7.88	10.27	7.57	8.53
1944	0.79	0.00	0.00	3.59	8.35	15.37	4.85	14.47	6.08	11.29	7.76	4.10
1945	0.75	0.11	0.00	1.84	4.22	5.17	5.89	6.37	5.14	17.36	9.49	7.51
1946	1.23	0.03	1.09	0.91	2.39	4.18	7.44	6.56	2.62	14.05	8.08	5.17
1947	1.09	0.53	0.02	1.79	4.99	6.06	7.25	5.83	5.39	9.68	10.25	5.58

1933	1.21	0.01	0.24	0.11	11.60	11.85	5.87	9.83	10.49	7.31	16.47	9.87
1934	1.94	0.62	0.11	4.73	10.83	8.15	5.18	9.25	12.60	19.91	14.33	5.67
1935	0.63	0.75	0.03	3.10	11.64	9.25	20.67	13.21	11.59	7.74	31.25	4.65
1936	0.18	0.09	0.37	2.93	14.61	9.84	9.57	7.37	10.04	22.45	9.20	2.10
1937	3.80	0.80	0.02	1.56	6.99	7.52	7.21	9.92	13.42	11.05	16.59	24.67
1938	0.88	0.29	0.96	1.69	17.56	13.58	13.02	12.07	9.55	14.70	15.66	12.73
1939	0.12	0.04	0.09	0.08	5.56	9.34	6.81	7.42	9.03	8.23	18.06	9.35
1940	1.40	0.43	0.24	0.50	10.55	8.12	6.66	13.47	10.37	14.99	9.09	0.88
1941	1.30	1.46	0.24	0.92	5.95	9.75	10.01	6.21	9.84	9.80	6.42	7.65
1942	0.73	0.48	2.66	2.57	10.99	11.06	8.10	8.66	8.39	19.23	7.65	14.26
1943	1.73	0.80	0.41	3.08	13.70	12.83	4.58	5.35	7.97	7.81	17.98	12.84
1944	0.59	0.12	0.05	2.50	10.27	5.62	6.45	14.43	8.48	15.12	8.16	4.48
1945	0.25	0.02	0.06	4.70	9.54	4.22	13.61	11.68	9.42	8.76	12.33	6.66
1946	0.55	0.07	0.37	0.64	7.27	6.55	11.99	5.57	7.29	7.99	9.83	7.25
1947	0.10	0.69	0.19	1.43	6.63	7.24	9.77	10.56	11.52	10.04	9.88	3.29
1948	1.90	0.00	0.09	0.44	14.17	5.79	9.89	6.86	8.82	12.13	15.00	1.87
1949	0.01	0.01	0.48	1.74	7.52	12.42	9.89	9.46	7.19	11.77	15.53	3.89
1950	0.29	0.38	0.80	1.97	9.26	13.22	13.94	8.05	7.59	6.40	17.09	6.84
1951	0.58	2.00	0.29	3.93	13.50	4.71	9.37	6.80	4.15	8.37	9.72	7.35
1952	1.24	0.47	0.06	2.52	11.50	13.06	8.37	4.16	7.58	15.14	4.95	9.50
1953	2.12	0.34	0.14	3.75	11.52	5.10	8.07	10.34	4.94	11.20	10.10	4.11
1954	1.37	1.42	0.76	3.84	8.24	7.32	20.74	14.10	7.56	7.59	15.62	1.88
1955	5.23	0.65	0.23	0.31	9.57	13.95	6.49	9.06	6.38	5.87	14.30	5.77
1956	3.61	0.93	0.59	1.01	13.87	5.75	11.28	6.95	5.46	17.40	10.04	4.06
1957	0.00	0.03	0.00	0.21	12.24	9.29	9.16	9.39	15.49	15.28	11.02	1.43
1958	1.59	0.21	0.56	2.17	12.81	7.86	6.96	8.69	8.69	11.03	6.67	2.36
1959	0.29	0.00	0.00	1.88	12.62	5.55	6.70	8.90	9.03	8.13	9.76	10.79
1960	2.59	0.68	1.48	3.56	8.57	13.74	12.51	9.19	8.09	13.37	9.49	11.29
1961	0.27	0.30	0.21	5.92	4.43	15.05	9.94	8.84	10.41	13.05	8.75	7.11
1962	0.80	0.01	0.26	3.97	6.81	9.36	6.15	9.33	11.54	12.21	9.02	3.37
1963	5.44	1.48	0.00	1.96	10.02	10.99	8.64	9.22	8.93	8.30	16.70	3.30
1964	0.07	0.00	0.10	2.63	14.31	10.37	12.65	9.41	11.00	8.57	13.64	0.80
1965	1.31	0.07	0.03	0.01	12.57	7.54	6.57	8.55	7.37	10.60	16.16	6.01
1966	0.63	0.03	0.02	2.58	5.45	15.08	5.63	6.21	11.64	7.06	17.52	7.95
1967	0.32	0.01	0.28	3.50	7.44	11.89	11.26	8.54	14.31	14.14	8.66	2.19
1968	0.00	2.85	0.00	0.70	9.17	12.98	6.94	11.78	12.30	11.59	15.19	1.29
1969	0.82	0.24	0.26	2.84	9.77	5.10	7.83	9.89	10.97	9.52	14.43	6.33
1970	6.88	0.26	3.08	5.82	10.38	5.30	10.27	11.46	10.59	12.90	14.54	11.42
1971	5.75	1.59	1.97	1.09	11.16	6.02	9.46	13.72	9.00	13.60	10.70	0.70
1972	3.80	0.50	1.40	7.50	7.30	12.30	9.50	6.90	14.00	13.00	11.70	3.70
1973	0.30	0.20	0.00	1.00	7.40	14.60	14.00	7.00	12.00	8.80	17.30	1.90
1974	0.50	0.10	1.30	0.40	10.50	14.20	14.30	5.30	8.20	17.90	8.40	4.50
1975	0.10	0.20	0.60	0.40	11.20	9.60	14.20	18.50	7.60	13.50	9.80	9.00
1976	0.30	0.00	0.10	1.10	5.00	8.50	3.20	4.80	10.90	8.10	7.40	1.00
1977	0.40	0.20	0.00	1.50	9.00	7.70	10.50	15.90	7.50	15.30	8.40	5.00
1978	0.20	0.30	1.10	5.50	12.20	10.10	14.80	6.70	8.40	12.20	7.80	6.40
1979	0.10	0.20	0.10	10.20	9.50	13.60	8.20	6.40	6.00	11.20	6.00	2.40
1980	4.20	1.40	0.10	0.60	8.60	11.90	10.00	12.30	10.20	12.30	5.20	5.10
1981	1.60	0.00	3.00	12.50	8.30	12.40	14.00	7.90	6.10	8.30	18.20	6.60
1982	5.80	0.30	0.10	2.50	13.50	4.70	6.90	7.30	8.90	13.30	7.60	0.80
1983	0.30	0.00	0.00	2.00	10.60	10.00	5.80	7.00	15.10	12.20	11.30	8.40
1984	0.80	2.50	0.00	1.50	9.90	12.60	8.60	16.20	16.30	16.00	13.10	0.20
1985	0.50	0.30	0.70	0.30	11.50	10.20	9.20	7.60	13.80	5.90	4.40	6.20
1986	0.00	0.50	2.50	4.30	2.50	14.00	4.80	9.30	6.90	20.00	5.10	0.70
1987	0.00	0.50	0.10	7.30	8.10	11.30	11.30	10.30	10.80	10.70	7.80	2.90
1988	0.00	0.20	0.20	0.90	6.80	8.80	5.40	9.40	9.40	13.40	10.90	2.70
1989	0.10	0.30	0.00	0.00	4.20	8.20	9.50	11.30	9.20	15.80	16.90	3.60
1990	1.40	0.00	0.30	0.90	12.40	3.30	8.00	8.00	11.90	15.00	10.60	8.20
1991	1.10	0.00	0.80	2.70	14.20	11.20	11.00	10.80	15.00	14.40	7.30	1.80
1992	0.40	0.20	0.00	3.90	7.40	14.70	14.90	7.40	11.20	10.80	5.70	2.00
1993	4.30	0.20	2.60	5.00	6.40	14.40	9.10	8.80	20.60	15.30	13.40	3.30
1994	0.90	0.60	2.10	0.60	14.30	9.40	7.50	10.50	13.00	14.50	19.00	3.20
1995	0.70	0.10	1.20	4.80	15.60	17.00	20.40	21.20	13.10	21.10	28.70	8.30
1996	9.20	0.70	1.60	2.40	10.10	9.40	8.50	12.20	10.10	12.60	12.20	1.50
1997	0.50	0.20	0.10	0.50	12.50	6.00	9.50	7.20	5.30	15.10	10.00	0.60
1998	0.00	0.10	0.10	8.60	7.50	8.80	10.30	12.70	11.40	8.30	11.40	7.40
1999	1.30	4.00	1.40	3.80	10.80	10.90	3.80	11.20	14.70	8.60	12.00	14.70
2000	1.40	0.30	0.10	3.60	13.00	12.40	6.30	10.80	12.00	12.50	8.50	8.50

1918	4.03	0.53	0.55	6.66	11.64	8.29	8.15	17.93	7.27	22.73	11.49	1.92
1919	1.42	0.54	0.59	12.04	7.16	12.54	7.86	9.07	8.42	17.46	7.19	6.62
1920	0.71	1.00	0.71	0.14	2.65	7.38	15.26	15.23	6.62	17.57	9.78	3.26
1921	2.01	2.74	0.79	4.69	14.08	13.23	13.17	19.73	13.71	9.09	21.04	9.03
1922	9.48	1.29	1.13	2.35	12.71	12.54	5.26	7.24	11.98	17.81	17.50	8.04
1923	2.26	0.55	0.46	1.57	10.18	11.55	8.70	15.53	12.11	39.76	15.31	6.74
1924	0.76	3.75	0.87	14.14	12.39	12.60	15.50	9.92	12.48	13.85	27.78	5.90
1925	3.01	1.09	0.72	8.17	8.33	8.99	14.37	7.64	14.03	12.23	20.78	5.61
1926	0.92	1.64	0.70	0.59	12.55	18.78	23.47	13.94	9.13	16.92	24.00	9.09
1927	5.69	2.53	2.62	8.04	16.58	11.27	13.61	14.75	9.73	11.39	17.78	15.96
1928	2.01	1.27	2.89	1.30	11.54	15.16	10.77	19.68	9.90	14.82	20.48	20.72
1929	0.75	0.54	1.94	1.43	11.92	10.75	7.59	19.22	8.42	15.67	15.08	5.51
1930	2.82	1.45	0.61	6.89	10.62	9.01	10.54	9.91	12.91	11.19	20.16	6.92
1931	2.65	1.68	3.94	7.10	16.37	8.86	17.18	13.67	4.77	17.77	31.91	2.37
1932	3.00	0.67	1.68	3.60	12.55	16.58	12.81	10.46	7.94	18.19	46.64	15.97
1933	2.61	0.20	0.98	0.31	8.64	17.67	12.88	4.96	11.87	16.54	41.52	21.67
1934	2.62	0.78	1.29	6.15	15.00	11.74	12.70	13.82	17.03	16.65	27.28	16.26
1935	4.78	2.93	0.75	2.44	11.34	15.33	21.66	15.90	13.44	11.00	44.21	19.48
1936	1.38	0.25	1.44	2.22	12.82	7.93	12.75	16.23	14.83	12.19	22.78	6.87
1937	5.19	0.73	0.54	1.73	18.80	13.92	11.89	16.24	10.43	21.05	16.83	24.08
1938	1.97	1.14	1.49	6.37	15.16	18.39	16.51	18.93	11.48	13.29	18.46	29.93
1939	0.70	0.39	0.81	1.45	4.70	18.89	6.04	13.03	13.67	15.03	35.32	18.37
1940	5.46	2.75	2.07	1.16	7.35	8.91	8.88	22.11	7.83	17.40	17.48	2.69
1941	4.20	3.76	2.65	1.17	8.43	9.16	14.60	13.83	14.15	26.81	20.50	4.51
1942	2.30	1.82	6.00	7.33	16.28	10.34	10.12	11.02	19.92	26.61	8.13	20.90
1943	1.90	2.69	3.44	5.88	18.43	11.37	9.29	12.84	16.36	13.10	19.98	15.04
1944	3.00	2.12	0.69	10.09	23.71	7.51	10.20	16.92	7.58	21.94	14.43	19.68
1945	2.86	1.03	0.78	1.54	14.54	7.72	15.26	17.93	11.17	17.20	32.36	23.43
1946	2.70	0.46	1.26	1.42	6.44	7.83	12.80	11.85	15.54	16.34	22.03	23.16
1947	0.81	1.13	0.84	5.66	7.90	8.81	13.74	10.05	9.13	10.69	10.38	11.35
1948	2.96	0.30	0.79	6.11	10.36	6.56	14.04	10.98	8.87	14.97	15.92	5.76
1949	1.30	1.48	0.62	2.44	10.45	21.03	10.62	15.55	9.34	17.79	29.74	16.19
1950	1.28	2.76	1.21	3.59	6.24	14.86	13.94	16.65	8.40	7.94	28.97	23.61
1951	0.85	6.71	1.08	9.41	12.42	8.54	7.99	9.19	9.65	17.69	12.90	11.09
1952	4.29	1.14	0.48	9.01	9.47	11.31	15.13	12.11	9.49	18.73	14.10	20.05
1953	5.46	1.06	2.40	5.99	12.97	2.97	19.36	12.37	7.70	19.56	15.77	9.26
1954	1.97	2.51	0.99	3.54	11.69	11.28	12.69	14.83	16.95	12.87	32.74	13.86
1955	11.56	1.23	1.55	0.71	14.32	14.04	6.96	11.24	7.55	12.91	20.46	13.53
1956	12.25	2.42	5.89	3.32	19.89	6.36	18.73	12.75	13.60	21.77	23.47	6.50
1957	1.28	0.42	0.66	0.25	9.75	10.98	9.05	13.93	17.50	10.01	21.27	7.45
1958	8.22	3.92	5.38	4.82	9.11	7.51	23.27	10.22	11.48	16.65	11.45	9.84
1959	2.32	0.15	0.41	4.19	10.81	9.49	11.48	10.64	17.27	7.85	15.67	21.80
1960	4.05	1.71	7.52	11.53	20.73	9.53	16.04	8.42	9.15	19.09	19.38	25.46
1961	1.03	0.34	0.91	6.65	9.58	16.72	8.15	15.81	8.57	20.40	19.14	5.96
1962	4.22	0.95	1.12	1.61	24.43	6.27	17.92	10.76	14.03	11.44	21.30	20.57
1963	7.15	2.20	0.57	4.70	16.10	7.43	14.32	14.69	8.53	10.18	21.81	4.09
1964	0.83	0.38	0.32	3.16	13.83	16.80	18.12	9.93	13.42	11.20	10.59	2.56
1965	5.61	1.33	0.20	1.70	14.46	7.05	4.88	12.95	11.68	24.00	33.66	7.50
1966	2.25	1.15	1.89	7.03	13.17	6.50	16.44	20.48	11.40	15.68	37.06	14.09
1967	1.44	0.37	0.91	4.94	7.63	19.37	18.35	9.47	7.92	13.86	25.90	9.94
1968	0.58	2.53	3.26	0.87	8.80	11.66	12.98	13.82	10.82	24.69	12.48	2.57
1969	3.22	1.65	1.12	2.10	13.70	9.23	15.94	17.39	14.05	14.51	14.44	18.71
1970	11.42	4.36	2.51	10.66	17.07	10.31	16.57	14.68	8.57	15.72	26.83	16.88
1971	5.31	2.47	3.43	0.68	13.93	12.58	10.87	16.82	12.66	10.70	11.69	0.74
1972	9.99	2.30	0.81	11.96	8.68	10.49	5.13	7.74	12.38	17.07	8.06	3.86
1973	1.81	1.83	0.20	2.30	7.40	8.80	7.20	9.70	9.20	11.60	22.60	7.80
1974	0.50	1.60	1.40	2.50	6.70	9.80	20.60	10.00	17.70	16.70	29.60	5.50
1975	1.00	0.50	3.20	0.90	11.30	13.30	12.70	17.90	13.40	16.90	13.60	25.00
1976	2.30	0.50	0.10	6.80	9.90	12.60	12.40	13.90	11.40	12.70	11.20	4.30
1977	1.70	0.90	0.20	4.20	7.60	12.10	5.80	12.90	10.20	15.20	9.20	2.20
1978	0.30	1.90	2.90	12.20	4.80	14.20	10.60	12.40	12.30	8.70	8.70	1.80
1979	0.60	3.00	0.40	10.30	14.80	14.40	10.40	16.50	9.80	12.10	10.40	10.30
1980	6.80	3.10	0.40	2.40	18.20	7.40	7.70	10.70	8.20	9.40	10.00	10.70
1981	7.90	1.90	3.90	13.80	16.70	9.10	14.20	13.40	6.80	13.40	42.40	19.00
1982	8.00	2.10	1.20	9.60	7.10	13.00	18.60	9.00	9.90	15.90	7.50	1.10
1983	1.40	0.20	0.00	6.00	15.20	9.60	10.40	11.10	11.20	10.40	9.10	16.20
1984	2.40	2.10	0.40	2.00	11.70	12.60	4.00	10.10	6.50	10.80	16.30	5.00
1985	6.80	1.30	0.80	0.70	8.90	10.70	13.00	10.10	11.80	10.20	13.40	13.30
1986	1.20	1.40	0.90	5.90	8.00	9.00	7.60	17.30	9.90	19.60	9.40	5.60
1987	1.20	1.80	0.20	10.00	20.70	10.60	18.30	17.60	20.90	22.60	14.20	10.60
1988	1.20	3.10	0.10	1.40	6.40	7.50	13.60	6.10	12.20	14.00	12.20	7.20
1989	0.50	2.10	1.20	0.70	4.70	6.30	13.30	12.60	4.40	20.00	16.70	5.00
1990	1.90	0.10	1.90	6.10	13.60	9.00	14.50	11.90	22.10	19.30	11.50	13.00
1991	2.30	0.80	4.40	2.60	16.70	9.00	5.30	10.00	17.00	8.60	22.60	1.80
1992	1.20	0.20	0.90	11.50	20.20	6.70	10.00	14.00	15.30	12.50	13.40	9.20
1993	4.80	1.90	3.10	13.80	6.40	9.40	12.70	10.80	16.50	12.80	15.50	10.30

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	STD DEV
1994	1.20	0.80	1.70	4.60	15.20	19.50	9.20	20.30	9.20	7.80	15.00	4.90		
1995	10.40	0.50	1.80	4.80	12.30	9.70	15.90	10.10	6.70	13.80	21.10	15.30		
1996	16.30	5.50	2.40	3.70	10.00	11.40	8.00	8.60	4.70	10.10	24.10	7.80		
1997	1.80	0.60	0.00	0.40	9.50	4.60	4.60	6.30	18.20	8.40	8.50	0.80		
1998	0.60	1.60	1.80	20.50	11.50	8.80	16.50	10.70	3.30	10.40	8.80	14.30		
1999	4.00	2.10	5.90	5.40	10.30	9.50	13.60	20.10	7.40	12.50	15.70	27.30		
2000	4.70	0.90	0.60	5.20	16.00	22.80	9.00	9.50	5.60	26.80	7.20	28.30		
SITE NO.=	5	RAIN	PEDRO MIGUEL (PMG)											
1911	0.03	1.40	0.03	5.24	9.57	5.52	6.36	5.43	8.31	12.92	7.49	1.82		
1912	0.00	0.22	0.02	4.23	6.92	9.69	11.54	9.51	10.76	10.48	8.43	3.91		
1913	1.10	0.07	0.00	1.04	13.48	9.00	6.80	5.46	8.32	12.07	10.17	2.14		
1914	1.27	0.07	0.02	3.00	13.15	11.35	7.15	7.60	7.97	6.74	10.88	6.26		
1915	1.03	1.69	0.22	2.39	10.24	7.69	8.59	10.41	6.78	16.38	7.92	3.62		
1916	1.71	0.86	0.41	9.82	13.10	6.42	9.17	9.78	10.43	15.72	13.39	4.85		
1917	0.30	0.00	0.91	1.25	7.38	11.34	14.78	9.51	11.78	6.01	19.38	7.00		
1918	3.08	0.02	0.03	11.01	9.36	6.55	5.54	4.41	7.27	10.57	7.16	1.09		
1919	0.48	0.00	0.00	6.58	7.37	3.99	7.30	7.61	9.38	11.25	6.02	3.22		
1920	0.03	0.07	0.04	5.08	7.45	10.02	11.15	7.60	13.68	10.24	14.38	1.46		
1921	0.04	1.53	0.17	1.17	8.72	9.81	7.02	9.40	7.26	11.06	8.78	3.42		
1922	2.67	0.51	3.44	1.19	13.11	10.32	7.09	7.60	5.64	9.64	14.61	8.06		
1923	0.62	0.00	0.00	0.05	9.18	8.96	5.77	7.98	4.86	18.30	8.09	3.49		
1924	0.01	0.45	1.10	1.51	11.95	8.09	8.48	13.38	12.10	12.00	15.23	9.18		
1925	4.18	0.02	0.10	3.50	6.96	12.86	10.15	7.38	8.80	12.27	8.38	3.02		
1926	0.00	0.16	0.00	0.01	4.95	11.58	10.96	11.30	13.02	10.58	8.46	12.69		
1927	0.30	1.94	0.02	7.51	16.93	14.37	10.06	3.87	7.74	7.00	6.94	2.03		
1928	0.14	0.00	0.44	7.94	7.19	7.60	11.09	7.11	10.57	9.54	16.76	5.79		
1929	0.03	0.00	0.04	0.98	3.84	9.74	4.10	12.25	9.89	9.30	14.95	6.81		
1930	0.32	0.54	0.01	5.65	9.83	5.14	9.31	10.48	11.28	12.93	6.11	2.24		
1931	0.02	0.01	0.57	0.60	9.65	9.85	9.69	6.20	11.62	11.15	19.24	3.16		
1932	0.94	0.01	0.46	6.75	4.99	11.56	8.08	9.05	7.58	16.58	13.91	4.53		
1933	3.90	0.00	0.06	0.62	6.74	11.04	7.82	8.06	7.00	6.80	10.89	5.67		
1934	3.74	0.00	0.50	2.06	10.36	5.96	7.34	7.35	13.08	13.93	17.17	4.68		
1935	0.28	2.07	0.00	0.94	9.37	7.75	17.16	10.64	6.48	10.74	23.96	3.47		
1936	0.02	0.00	0.90	1.89	8.80	13.82	11.20	7.78	6.49	12.91	7.23	1.09		
1937	2.59	0.02	0.02	3.45	11.44	5.38	8.18	10.92	10.60	12.60	8.89	21.19		
1938	1.41	0.02	1.73	1.45	20.76	14.73	11.23	13.78	7.64	7.93	19.84	9.33		
1939	0.02	0.00	0.03	2.27	3.62	9.67	8.26	8.67	6.78	14.52	8.90	5.01		
1940	0.62	0.16	0.37	0.78	7.78	5.58	6.25	4.01	8.48	13.39	9.90	0.99		
1941	1.91	2.07	0.09	2.75	9.46	9.62	12.55	8.40	9.61	9.54	4.11	4.98		
1942	0.23	0.56	2.05	1.77	15.96	7.87	9.38	6.74	8.18	14.65	11.59	19.22		
1943	1.99	0.39	2.22	6.04	13.03	7.67	8.41	8.51	10.02	6.10	7.70	13.03		
1944	1.64	0.04	0.00	3.11	6.78	11.57	8.90	21.69	7.36	9.51	7.11	3.80		
1945	0.09	0.00	0.02	3.96	2.67	6.63	10.37	11.41	8.89	15.19	11.65	7.41		
1946	1.63	0.00	0.50	0.17	10.30	5.62	9.87	5.83	4.69	9.01	6.92	8.64		
1947	0.00	0.08	0.00	2.88	4.72	7.61	8.98	12.06	8.50	15.92	13.81	6.55		
1948	0.69	0.00	0.00	0.62	11.14	7.34	10.90	5.15	8.87	8.09	14.43	1.65		
1949	0.06	0.00	0.00	2.43	12.68	13.45	7.54	7.93	8.44	13.59	7.11	5.93		
1950	0.24	0.09	1.14	2.51	12.18	12.23	15.65	6.81	6.10	9.03	12.30	3.81		
1951	0.75	0.78	1.51	3.72	11.76	5.25	12.44	5.60	4.98	9.16	7.89	6.59		
1952	0.30	0.01	0.00	2.33	10.35	9.49	5.75	5.17	3.32	15.19	10.10	5.66		
1953	4.25	0.17	0.05	0.10	8.56	8.29	6.83	11.71	3.32	19.24	6.20	6.35		
1954	0.74	0.88	0.25	7.69	10.13	18.10	11.72	17.82	11.69	9.37	10.54	2.14		
1955	5.12	0.82	0.36	0.27	7.19	10.72	8.80	11.30	8.82	10.34	15.06	10.01		
1956	2.38	0.39	0.22	0.24	9.40	3.56	11.18	10.72	6.84	10.17	11.88	2.42		
1957	0.00	0.03	0.03	0.00	10.57	7.89	9.56	9.38	12.57	17.59	7.43	1.16		
1958	1.54	0.02	0.70	0.89	11.09	6.89	3.76	8.20	10.65	20.60	8.82	2.23		
1959	0.68	0.00	0.00	0.81	5.86	7.78	8.90	11.80	4.34	13.69	9.91	5.52		
1960	3.58	0.15	0.74	5.96	12.78	9.69	7.37	10.32	10.60	11.50	13.26	12.62		
1961	0.06	0.04	0.00	4.22	4.92	14.38	9.47	5.81	9.83	10.48	11.61	10.94		
1962	0.18	0.01	0.14	4.65	7.50	8.30	6.63	11.19	10.12	11.49	11.49	3.99		
1963	2.23	4.03	0.00	6.71	3.94	7.79	8.89	10.32	13.33	12.27	17.89	4.23		
1964	0.00	0.00	0.22	11.43	9.23	10.03	11.13	9.83	10.67	9.00	8.94	2.58		
1965	0.34	0.01	0.00	0.01	21.19	3.93	8.03	8.97	7.59	10.32	18.88	3.39		
1966	2.87	0.00	0.23	3.57	15.04	14.82	12.01	8.91	10.52	12.71	15.07	5.99		
1967	0.13	0.48	0.01	6.03	5.37	11.19	10.70	8.11	13.24	13.59	6.05	4.76		
1968	0.00	2.55	0.27	1.04	14.76	9.51	11.53	8.53	8.32	12.37	9.52	0.95		
1969	0.75	0.42	0.22	4.01	6.15	8.80	5.36	13.33	12.94	13.99	10.89	5.00		
1970	5.73	0.04	1.23	5.75	15.00	7.65	7.70	18.00	7.12	10.40	9.80	9.50		
1971	5.60	0.70	0.20	3.90	11.20	5.10	8.00	11.10	8.10	12.40	9.00	0.90		
1972	5.60	0.00	1.30	8.50	6.90	11.80	4.40	8.50	14.50	8.80	4.30	2.10		
1973	0.00	0.00	0.20	0.80	7.20	9.10	8.10	7.40	5.10	13.00	12.90	6.20		
1974	0.20	0.00	0.20	0.90	12.40	12.40	9.70	7.30	13.00	12.70	6.70	2.50		
1975	0.00	0.00	0.00	1.00	12.50	7.90	11.10	9.30	7.50	17.50	9.60	5.10		
1976	0.00	0.00	0.00	4.80	7.90	7.30	5.90	5.80	7.50	13.30	10.20	2.20		
1977	0.10	0.00	0.00	0.70	14.00	10.10	10.90	7.40	9.90	14.90	6.30	3.50		
1978	0.50	0.00	0.40	5.40	6.80	8.50	7.80	8.90	10.30	10.40	16.70	4.60		

1979	0.00	0.10	0.00	11.20	11.90	7.90	7.70	9.30	5.30	18.50	4.80	3.90			
1980	1.10	0.20	0.00	0.50	9.10	12.80	7.90	10.90	11.10	9.90	10.70	3.80			
1981	0.20	0.00	2.40	13.70	7.70	14.50	11.50	5.00	9.50	8.70	12.20	4.60			
1982	2.80	0.10	0.00	4.00	5.50	2.90	9.40	8.20	13.50	13.70	4.10	0.30			
1983	0.00	0.00	0.00	2.90	5.40	5.60	9.80	5.70	11.00	8.50	6.20	4.70			
1984	2.40	1.20	0.00	1.40	11.20	11.30	10.60	11.70	8.30	19.20	5.60	0.80			
1985	0.20	0.00	1.50	0.50	8.50	18.60	7.90	6.60	15.60	8.10	10.20	6.20			
1986	0.10	0.10	1.80	5.30	5.40	12.70	7.80	6.30	12.40	22.40	7.80	0.80			
1987	0.10	0.10	0.40	4.80	10.20	13.00	11.30	7.50	11.60	12.00	10.90	2.40			
1988	0.00	0.10	0.30	2.30	13.30	10.30	11.60	12.40	6.70	12.60	12.30	5.00			
1989	2.20	0.00	0.60	0.00	5.00	11.10	10.30	11.60	6.90	7.80	14.30	5.60			
1990	0.90	0.00	0.00	4.20	8.40	7.00	13.20	11.60	7.60	12.90	5.40	4.50			
1991	0.20	0.00	0.20	9.00	13.80	10.50	10.80	10.90	12.80	9.00	12.50	1.30			
1992	0.00	0.10	0.10	1.80	8.70	13.60	10.50	9.90	12.20	13.90	7.50	2.20			
1993	3.70	0.00	0.70	3.30	8.60	18.10	11.50	7.90	11.00	8.60	9.40	3.70			
1994	0.40	0.00	5.60	1.80	13.70	6.70	5.60	9.20	9.30	11.00	14.00	0.20			
1995	0.20	0.10	0.80	5.90	8.50	13.00	10.50	7.00	5.90	10.10	13.70	1.90			
1996	5.70	2.20	2.90	3.50	15.00	8.20	4.70	13.50	7.00	13.10	13.70	3.70			
1997	1.50	0.50	0.00	0.70	6.10	4.80	11.00	5.90	7.30	13.70	13.10	1.10			
1998	0.10	0.00	1.30	12.40	9.60	11.80	13.30	8.50	11.00	10.80	7.40				
1999	3.20	3.20	1.10	2.50	8.70	14.20	5.00	8.70	13.30	4.70	8.20	9.60			
2000	1.80	0.30	0.00	5.70	7.90	11.90	9.30	10.70	9.30	13.70	6.60	7.00			
SITE NO.=	6	RAIN	MONTE LIRIO (MLR)												
1911	0.89	2.41	1.41	5.27	19.70	11.43	10.58	9.58	11.19	18.46	20.05	2.30			
1912	2.14	3.32	0.24	1.29	8.34	13.51	11.60	8.15	9.39	21.17	16.35	5.24			
1913	3.57	2.52	0.60	3.54	16.29	10.71	8.70	10.42	14.12	14.90	15.02	7.19			
1914	0.83	1.55	1.19	4.44	11.42	14.55	3.54	16.85	15.38	18.17	14.32	5.02			
1915	2.54	6.57	0.76	12.19	11.17	10.40	15.73	12.47	14.87	17.78	24.27	10.16			
1916	0.75	2.60	2.66	4.73	8.41	11.81	9.64	10.50	9.88	17.29	18.42	6.49			
1917	0.68	0.55	0.75	3.81	11.24	14.50	13.93	12.83	14.10	10.04	27.04	9.97			
1918	3.92	0.76	1.34	4.20	14.51	9.43	7.83	11.82	12.10	23.57	15.37	1.04			
1919	4.03	1.15	0.59	11.66	5.20	8.16	9.37	10.17	15.48	15.84	9.09	7.73			
1920	0.37	0.71	0.78	0.08	6.34	7.86	13.61	14.27	9.12	18.30	10.39	3.32			
1921	3.32	2.93	0.26	6.63	9.76	15.23	15.50	15.41	15.69	9.28	22.26	8.87			
1922	6.69	1.35	0.21	1.41	12.29	9.98	5.66	6.95	13.78	16.57	10.80	5.74			
1923	0.88	0.47	0.80	1.54	9.13	10.32	6.83	14.04	9.68	42.22	21.79	2.17			
1924	0.69	4.64	1.35	12.47	11.17	13.63	14.62	8.86	17.03	14.82	22.76	7.49			
1925	1.97	1.76	0.64	4.00	4.06	10.17	14.23	7.25	13.42	23.43	16.65	4.19			
1926	0.37	2.05	1.08	0.57	10.42	26.75	18.21	19.92	8.27	17.39	26.82	11.68			
1927	4.06	1.25	3.82	9.21	17.56	15.66	17.52	16.51	12.43	12.14	25.41	11.70			
1928	2.18	1.72	3.28	0.88	8.88	13.90	8.05	22.06	13.76	13.44	18.83	15.06			
1929	0.73	0.61	4.18	2.61	9.06	14.58	8.52	20.46	5.22	15.49	15.72	6.00			
1930	2.33	0.61	0.46	4.26	15.39	6.51	7.72	7.76	8.92	5.60	19.52	8.15			
1931	1.46	1.38	7.72	3.95	14.49	13.85	16.18	10.13	8.47	11.57	27.41	1.35			
1932	1.49	0.91	2.29	2.51	12.58	12.06	12.40	9.85	5.81	12.87	39.69	13.53			
1933	1.22	0.23	1.08	0.04	9.57	12.81	7.49	8.45	10.40	8.32	34.97	17.34			
1934	2.02	0.96	2.64	7.77	15.37	6.10	9.69	16.30	19.00	16.59	20.87	17.10			
1935	2.82	3.32	0.60	4.29	10.46	9.36	22.06	13.37	12.85	10.10	41.50	20.83			
1936	1.32	0.14	1.02	1.78	9.70	6.30	8.88	18.40	13.46	20.00	14.00	4.61			
1937	3.10	0.25	0.57	1.90	13.34	10.27	10.67	12.50	12.80	22.00	21.25	25.23			
1938	1.44	0.83	1.20	2.63	14.85	17.29	15.39	17.57	10.36	13.11	11.14	21.86			
1939	0.35	0.13	0.40	1.18	4.68	12.31	10.74	9.68	16.34	16.93	32.64	11.27			
1940	4.82	2.22	1.45	0.61	7.23	9.39	9.83	18.05	10.97	14.67	17.95	3.34			
1941	2.59	2.90	2.21	3.42	7.44	13.33	12.56	15.20	14.68	23.76	16.61	2.99			
1942	2.58	1.13	4.75	6.30	12.06	13.47	10.87	8.37	14.03	23.07	9.81	26.00			
1943	1.12	2.41	1.86	0.68	20.56	15.42	6.50	10.68	13.40	12.52	19.08	12.25			
1944	2.00	1.49	0.30	7.25	14.61	10.93	9.58	21.30	5.90	23.24	11.05	15.67			
1945	2.20	0.31	0.66	1.17	11.75	7.27	6.43	12.08	11.83	11.81	23.15	27.99			
1946	0.68	1.09	1.91	0.86	13.21	3.78	12.86	9.25	11.67	8.73	17.14	14.25			
1947	0.00	2.30	1.49	2.90	7.03	13.13	12.94	11.76	10.29	11.04	7.81	6.90			
1948	2.46	0.23	0.29	0.43	7.34	4.69	9.75	11.14	9.35	9.72	13.41	3.38			
1949	0.21	0.04	0.00	0.27	9.84	18.58	10.59	10.10	6.50	18.90	32.88	11.90			
1950	0.35	2.24	1.15	2.81	5.45	14.27	14.93	11.76	6.79	13.51	26.86	20.79			
1951	1.92	4.59	0.69	9.53	12.50	8.84	8.72	7.48	9.21	19.78	17.46	11.99			
1952	2.65	0.58	0.30	5.40	13.95	9.02	11.22	11.35	10.01	15.53	9.48	21.98			
1953	5.83	0.49	1.88	3.18	8.25	4.33	18.04	14.24	4.36	20.19	16.74	6.45			
1954	0.98	1.29	0.74	2.09	8.68	11.36	12.94	9.99	9.28	10.10	19.24	7.67			
1955	8.74	0.73	0.37	0.84	12.14	11.66	8.34	12.07	9.27	12.33	21.31	13.63			
1956	6.60	1.49	3.23	2.79	15.38	4.97	17.65	13.89	12.38	20.43	16.84	2.94			
1957	0.42	0.58	0.19	0.14	6.30	12.39	6.53	21.71	13.25	9.56	17.23	6.77			
1958	4.18	7.38	2.31	7.33	8.46	9.64	11.21	8.62	9.58	15.71	8.45	9.68			
1959	1.15	0.19	0.19	4.82	7.91	9.00	11.25	13.40	14.52	7.04	9.08	30.01			
1960	2.46	1.46	7.40	12.32	17.63	16.13	15.14	5.44	8.27	25.78	18.47	22.21			
1961	0.83	0.02	0.15	4.08	3.87	17.82	7.23	14.89	9.89	17.22	12.22	5.25			
1962	2.23	0.89	0.48	3.62	18.50	9.57	14.91	11.28	12.19	10.69	15.43	13.27			
1963	6.24	2.17	2.41	5.00	9.19	10.33	14.17	16.20	7.39	11.93	11.36	2.50			

YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1949	0.88	0.32	0.48	2.07	11.23	12.72	12.61	15.60	9.64	17.72	36.65	15.86								
1950	0.87	3.97	2.17	4.26	7.23	13.84	17.22	16.77	10.25	13.74	39.12	19.77								
1951	0.89	5.62	0.60	8.48	11.08	10.84	12.85	12.95	10.16	19.15	10.62	11.14								
1952	3.26	0.93	0.03	6.97	15.70	18.12	20.88	20.31	9.76	21.12	20.76	19.97								
1953	6.85	2.01	1.75	2.38	8.45	5.93	17.95	11.59	12.27	18.41	21.87	9.11								
1954	1.38	1.72	0.67	4.29	12.44	15.13	17.24	19.43	10.66	9.76	27.50	10.43								
1955	11.18	1.79	1.33	0.44	13.43	10.90	9.58	13.41	3.14	13.99	23.95	14.20								
1956	10.25	1.42	4.43	2.39	18.27	9.74	24.77	14.86	11.70	15.66	29.72	6.71								
1957	1.06	0.39	0.47	0.08	6.16	11.87	11.09	21.19	11.48	8.39	27.94	7.01								
1958	6.69	3.35	5.61	5.10	6.57	7.85	19.03	12.76	15.76	26.14	14.57	7.64								
1959	3.13	0.04	0.40	3.96	13.88	9.28	15.41	11.18	21.34	10.23	15.94	22.14								
1960	2.70	0.61	4.73	10.38	24.18	12.65	10.92	10.99	8.42	19.31	32.04	29.18								
1961	0.68	0.22	0.75	2.27	9.44	10.13	9.98	10.34	12.90	15.42	21.94	8.96								
1962	2.29	0.59	0.72	2.23	23.05	6.62	24.34	18.01	13.14	11.64	25.35	17.85								
1963	7.05	6.39	0.38	2.28	13.22	13.61	8.94	13.70	11.22	6.34	22.72	3.50								
1964	0.74	0.65	0.55	3.39	9.39	17.58	18.68	18.80	13.58	11.78	14.36	2.03								
1965	4.82	1.42	0.08	2.22	12.10	9.17	9.79	20.31	14.12	23.70	25.78	7.62								
1966	1.11	0.57	2.63	6.49	15.44	3.38	13.84	20.26	13.36	14.90	35.08	13.90								
1967	0.93	0.42	0.52	2.94	7.74	18.06	16.52	8.56	11.95	18.84	27.65	10.44								
1968	0.21	1.57	2.48	0.53	8.88	11.61	19.49	13.67	14.95	12.90	13.38	3.48								
1969	2.54	1.02	2.06	1.21	20.30	5.69	13.95	20.21	18.35	11.01	15.81	15.35								
1970	9.21	2.09	1.72	14.75	21.05	9.73	19.64	12.02	13.43	11.80	32.21	18.65								
1971	7.39	1.66	2.91	0.30	9.97	21.90	9.97	15.70	15.20	13.00	14.40	1.10								
1972	11.90	2.40	0.60	13.40	6.90	15.00	8.60	12.60	10.10	22.00	8.00	6.20								
1973	3.00	0.10	0.20	1.10	10.50	10.90	17.60	15.10	14.40	13.60	16.50	8.00								
1974	0.40	0.50	0.40	0.80	7.80	24.30	18.50	9.60	5.40	23.40	34.50	5.00								
1975	0.20	1.00	1.70	0.40	4.20	14.60	11.50	17.90	11.20	22.50	12.80	20.40								
1976	1.10	0.60	0.20	4.80	6.60	15.30	5.30	14.40	9.00	20.80	12.20	1.30								
1977	1.00	0.70	0.10	1.90	14.00	12.30	8.10	22.20	11.60	21.30	23.70	4.20								
1978	1.80	1.40	1.70	11.50	5.30	20.60	8.40	14.00	8.20	19.60	10.70	2.20								
1979	0.30	0.80	0.00	13.50	17.00	17.20	12.80	11.80	11.50	11.63	9.29	0.00								
1980	2.07	2.14	1.37	0.00	17.58	5.92	5.61	13.18	13.20	16.40	11.80	13.10								
1981	2.50	0.20	2.30	14.20	21.00	17.30	15.00	20.60	5.60	22.10	37.60	14.20								
1982	11.40	1.40	0.60	6.50	5.60	10.20	14.10	7.90	12.20	15.80	7.90	0.50								
1983	1.10	0.10	0.10	5.90	9.00	12.60	5.50	16.70	18.60	16.10	17.50	22.90								
1984	2.30	1.40	0.70	1.60	12.20	20.00	9.00	11.10	12.70	13.50	18.40	4.90								
1985	2.70	0.50	0.40	0.70	17.30	15.50	10.50	19.60	7.10	22.50	18.90	11.80								
1986	0.50	0.60	0.60	4.40	10.30	20.10	7.40	14.70	10.50	10.70	8.60	3.60								
1987	0.80	0.80	0.40	10.90	22.90	8.70	16.20	21.90	19.60	26.50	16.80	13.90								
1988	0.00	2.00	0.10	0.70	8.30	16.30	19.60	11.20	12.40	15.40	15.60	7.30								
1989	0.30	1.40	0.30	0.60	8.10	6.50	14.20	14.00	8.70	28.70	18.50	4.60								
1990	1.70	0.10	1.30	2.80	13.60	11.50	14.30	18.20	20.70	18.10	12.20	9.70								
1991	0.20	0.30	0.70	4.40	12.90	7.20	8.40	10.40	24.10	11.90	25.20	2.80								
1992	0.20	0.50	0.20	10.20	15.70	11.80	20.10	18.40	11.30	18.00	11.30	12.20								
1993	2.40	0.80	1.20	11.00	5.60	14.70	10.60	17.00	16.50	11.60	18.50	14.30								
1994	1.50	0.30	1.10	1.50	12.00	20.30	11.20	13.50	16.50	8.30	15.00	5.10								
1995	1.20	1.10	0.40	4.40	18.70	20.20	14.60	8.80	12.70	12.50	21.50	20.40								
1996	11.78	5.57	2.35	4.99	10.90	13.69	9.30	10.84	8.01	16.73	16.13	18.07								
1997	1.40	0.20	0.10	2.20	10.50	7.60	7.60	12.00	18.10	7.80	14.60	0.60								
1998	0.00	0.98	0.30	16.97	15.62	12.61	11.20	13.60	8.20	16.70	9.80	15.80								
1999	2.90	1.20	3.30	3.00	15.20	10.50	19.70	18.40	7.60	11.10	14.90	24.60								
2000	3.30	0.00	0.00	0.10	2.30	22.60	5.70	12.70	9.00	21.00	8.00	24.40								
SITE NO.=	8	RAIN SALAMANCA (SAL)																		
1911	0.00	1.05	0.93	3.03	17.35	11.09	4.31	6.02	9.04	14.38	11.38	2.33								
1912	0.77	0.78	0.14	1.07	13.37	11.97	11.69	12.14	7.76	14.98	11.99	2.97								
1913	2.23	0.84	0.11	0.69	15.17	12.05	5.19	7.71	8.52	8.98	17.27	1.70								
1914	0.25	0.50	0.11	2.57	6.68	12.14	7.69	8.76	18.17	18.62	9.62	3.62								
1915	0.59	3.72	0.11	9.67	6.38	14.64	19.10	13.37	11.46	16.33	18.80	4.52								
1916	0.14	1.79	0.66	8.43	10.64	10.82	15.32	14.31	12.31	20.40	16.14	6.19								
1917	0.33	0.14	0.17	0.88	19.41	10.17	17.68	16.01	9.00	19.40	23.99	6.01								
1918	1.49	0.27	0.05	5.16	13.58	16.86	9.85	7.07	12.19	14.20	6.55	1.23								
1919	0.84	0.06	0.05	10.32	7.32	6.64	12.79	10.67	15.03	10.21	11.33	2.72								
1920	0.49	0.20	0.37	1.45	8.45	13.40	21.89	12.56	10.04	23.96	12.40	1.76								
1921	0.44	1.28	0.61	2.76	7.89	15.03	9.37	14.88	12.37	19.32	8.45	6.98								
1922	4.17	0.50	0.05	0.51	14.12	12.21	2.31	8.80	14.10	12.79	12.10	7.16								
1923	1.44	0.55	0.38	0.74	7.01	10.44	4.92	13.22	15.85	31.62	7.75	1.69								
1924	0.18	2.01	0.04	3.77	12.84	16.83	15.77	13.99	9.17	11.40	11.19	6.77								
1925	1.22	0.32	0.16	2.98	5.06	10.24	10.75	7.99	11.84	12.51	11.67	2.43								
1926	0.11	1.43	0.40	0.05	4.70	13.10	13.15	18.60	17.95	16.30	13.30	7.88								
1927	2.05	2.05	0.94	7.40	16.00	17.58	29.70	8.40	14.58	10.25	16.81	8.65								
1928	1.04	1.75	1.82	1.13	6.14	12.15	13.85	14.19	13.08	17.42	19.25	5.20								
1929	0.20	0.30	0.72	0.85	8.93	11.80	9.40	8.04	10.25	15.63	8.36	2.30								
1930	0.52	0.34	0.30	4.40	11.07	6.80	10.27	5.10	13.06	9.21	5.68	2.31								
1931	0.68	0.64	2.30	1.45	18.47	15.72	12.95	11.13	15.38	12.08	28.24	2.82								
1932	2.06	0.26	0.23	3.38	15.69	17.06	8.43	13.84	9.79</td											

1934	1.10	0.36	0.69	2.22	15.31	12.83	6.04	8.39	12.79	13.05	18.20	7.43
1935	3.56	0.86	0.87	3.80	15.47	15.95	18.96	18.79	11.88	8.99	49.13	12.20
1936	0.89	0.15	0.46	2.56	16.26	14.36	15.45	10.21	16.54	11.09	14.37	1.10
1937	4.79	0.55	0.15	1.23	11.96	11.99	14.77	15.03	11.93	16.00	19.18	18.32
1938	0.51	0.27	0.19	5.83	17.83	9.46	7.47	14.46	15.90	16.32	15.67	13.90
1939	0.27	0.08	0.18	0.31	5.45	9.92	5.40	7.98	10.02	13.23	18.33	8.30
1940	1.93	0.96	0.14	0.44	9.37	5.80	8.12	10.28	11.26	13.86	16.53	0.68
1941	0.74	3.43	0.82	2.09	12.15	16.35	12.46	11.61	9.14	14.31	12.01	5.29
1942	0.71	0.13	0.63	3.09	8.39	11.61	9.00	11.34	12.41	15.94	4.88	8.78
1943	2.04	1.43	0.11	3.80	11.78	10.19	4.99	8.11	12.40	12.24	10.55	13.85
1944	0.97	0.50	0.07	7.44	9.91	7.00	8.78	16.98	10.88	24.29	10.70	14.65
1945	0.52	0.13	0.10	0.35	8.89	9.05	12.65	9.58	10.04	8.06	7.08	9.95
1946	0.13	0.28	0.24	0.80	11.90	10.68	13.59	7.14	17.11	11.39	8.47	8.57
1947	0.12	0.25	0.17	3.66	7.64	17.54	10.52	13.31	10.90	16.45	9.84	8.73
1948	0.56	0.07	0.30	0.43	10.10	8.72	11.74	11.78	9.63	10.44	13.22	2.54
1949	0.25	0.22	0.11	1.12	8.75	19.89	16.24	11.42	12.47	8.54	12.48	6.21
1950	0.28	0.63	0.16	3.25	8.77	16.05	10.16	11.44	11.28	9.29	14.00	12.13
1951	0.35	5.42	0.23	4.10	12.28	13.08	7.98	12.99	6.57	10.74	8.85	3.49
1952	1.67	0.35	0.00	3.24	15.38	9.43	9.55	8.39	11.05	19.52	6.31	11.03
1953	4.17	0.95	0.39	2.99	1.78	7.57	14.45	8.11	15.49	14.72	11.32	8.95
1954	0.79	0.76	0.97	3.87	9.20	8.52	13.67	13.36	9.87	9.46	10.99	5.95
1955	6.66	0.16	0.58	0.67	6.05	13.23	11.91	13.09	5.33	7.33	13.67	4.72
1956	5.46	0.88	0.98	2.39	11.07	7.70	14.59	6.96	9.05	13.16	17.83	2.58
1957	0.17	0.07	0.00	0.00	4.09	7.06	8.01	8.23	5.90	11.64	11.86	2.35
1958	0.97	0.84	2.49	1.23	10.66	10.73	10.31	6.19	10.39	8.27	10.00	2.73
1959	0.10	0.00	0.00	1.08	2.82	11.52	5.36	10.88	10.95	10.09	7.21	14.41
1960	3.30	0.38	0.98	4.29	12.47	10.74	7.44	13.73	11.36	13.00	11.37	12.53
1961	0.18	0.14	0.30	5.02	3.72	14.27	10.28	17.07	14.41	14.07	12.86	5.35
1962	0.66	0.11	0.75	0.71	10.00	9.90	14.00	17.05	6.84	15.38	9.83	8.66
1963	6.05	1.52	0.13	4.39	6.38	7.75	14.50	11.96	9.64	9.76	15.83	0.29
1964	0.00	0.01	0.12	5.12	6.81	13.31	11.93	11.08	9.66	16.46	12.97	3.80
1965	1.32	0.06	0.01	0.00	9.44	6.07	9.20	12.46	8.04	9.78	14.22	6.15
1966	1.21	0.34	2.54	2.54	8.89	11.12	13.11	14.01	14.01	14.01	14.01	10.51
1967	0.56	0.14	0.27	6.71	6.17	14.51	13.53	12.27	10.54	12.59	12.19	8.18
1968	0.12	0.92	0.67	1.39	9.21	12.97	3.88	11.02	6.75	18.42	13.85	3.12
1969	0.73	0.13	0.88	6.90	9.89	9.83	4.80	14.42	15.55	5.72	7.70	8.26
1970	10.24	0.69	1.08	13.76	16.62	8.41	11.67	10.76	11.68	10.15	8.33	9.96
1971	2.34	0.26	2.82	0.31	3.42	13.90	12.10	14.10	7.90	12.20	7.00	0.30
1972	6.30	0.60	1.60	6.30	7.60	7.40	3.80	3.40	11.00	4.60	7.80	3.90
1973	0.60	0.30	0.00	0.80	12.80	12.00	10.60	13.50	7.20	15.60	19.40	4.70
1974	0.30	0.10	0.20	2.00	7.00	17.40	7.40	9.00	8.40	16.70	10.60	3.30
1975	0.30	0.00	1.50	1.30	14.30	10.10	15.00	15.70	7.30	23.30	10.70	8.60
1976	1.20	0.20	0.30	2.00	6.20	7.20	3.20	9.80	10.20	6.50	7.80	0.70
1977	0.60	0.20	0.00	0.70	8.80	5.50	3.80	14.00	7.60	15.10	8.90	4.60
1978	0.60	0.50	0.90	12.20	7.50	13.30	5.80	14.50	11.20	7.80	18.90	0.70
1979	0.10	0.20	0.10	16.40	7.10	10.20	10.10	15.90	6.00	14.40	10.80	6.20
1980	3.30	1.60	0.30	1.40	11.30	11.00	7.50	8.60	11.10	13.20	13.00	2.60
1981	1.90	0.50	2.10	9.00	6.10	13.40	16.30	10.70	7.00	9.50	13.50	12.30
1982	3.50	0.10	0.10	5.70	10.20	10.40	8.50	3.10	5.00	12.00	6.10	0.50
1983	0.10	0.00	0.90	3.20	7.90	8.80	3.40	9.10	17.30	16.00	14.60	10.30
1984	0.80	1.04	0.06	0.80	10.00	14.20	9.80	14.50	9.80	12.90	12.60	1.40
1985	1.60	0.40	1.00	1.10	11.20	11.70	7.50	10.10	14.80	12.70	9.00	10.60
1986	0.30	0.10	0.10	8.60	4.70	13.40	4.20	7.60	12.70	16.50	8.30	1.80
1987	0.50	0.40	0.10	15.90	9.90	9.50	16.30	9.10	10.40	17.80	12.70	5.50
1988	0.00	0.40	0.40	0.40	7.90	7.70	17.10	11.30	12.90	17.10	12.80	4.10
1989	0.80	1.10	0.10	0.10	3.30	8.60	12.00	13.60	6.60	16.40	12.30	5.20
1990	3.00	0.00	0.70	0.30	8.90	5.30	8.70	13.10	13.40	14.40	8.50	8.90
1991	1.10	0.50	1.10	4.50	11.10	6.90	7.10	10.50	11.40	12.00	12.00	1.60
1992	0.30	0.00	0.10	5.90	10.80	12.20	9.40	12.30	8.40	8.60	7.00	2.30
1993	1.70	0.00	3.00	4.10	8.60	20.60	6.40	5.60	15.20	11.10	12.50	2.70
1994	0.90	0.30	1.20	0.00	11.80	10.70	6.20	7.00	11.70	13.20	10.20	0.70
1995	1.00	0.10	2.30	3.00	6.10	8.80	10.40	11.90	9.90	13.50	13.40	6.70
1996	7.20	1.10	1.70	4.00	7.10	14.40	4.10	12.00	13.30	11.30	9.80	3.60
1997	0.10	0.30	0.00	3.20	7.40	9.90	4.80	4.40	8.70	8.90	3.70	0.40
1998	0.30	0.10	0.10	3.10	11.20	11.00	7.80	16.00	12.30	7.00	6.90	9.80
1999	1.60	1.80	1.20	2.10	14.20	13.80	14.60	13.50	12.60	14.80	24.50	24.60
2000	3.20	0.50	0.20	3.00	2.90	10.07	11.97	10.62	6.53	19.29	2.16	5.48

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1919	2.12	0.38	0.34	11.72	8.41	9.71	7.80	7.93	8.45	12.45	11.50	4.24												
1920	0.36	0.32	0.13	0.55	7.68	9.82	14.81	10.87	9.49	19.95	9.76	1.88												
1921	2.41	2.81	0.35	2.70	9.18	9.23	8.25	13.78	13.40	19.30	9.75	8.50												
1922	6.16	0.41	0.21	0.53	13.25	8.10	3.85	13.35	8.95	15.65	3.53	5.73												
1923	3.74	0.13	0.28	0.47	8.26	9.67	4.28	7.38	7.64	24.00	16.38	2.60												
1924	0.12	2.86	0.44	5.10	10.25	12.16	13.46	9.91	9.19	11.44	15.19	4.27												
1925	1.10	0.59	0.84	2.24	9.63	6.45	12.75	11.78	12.07	18.32	12.12	3.03												
1926	0.03	0.75	0.07	0.56	6.11	14.20	10.26	9.61	7.78	13.77	16.95	12.22												
1927	1.58	1.45	1.82	7.42	15.05	11.96	10.24	3.15	12.01	9.23	13.89	5.18												
1928	0.85	0.50	1.20	2.51	12.23	11.36	7.17	18.82	8.11	12.60	15.07	7.81												
1929	0.48	0.00	2.48	2.20	16.31	7.68	10.78	13.18	10.99	10.78	11.65	2.86												
1930	1.37	0.97	0.05	5.52	7.58	4.98	7.50	9.64	6.08	7.15	8.73	6.81												
1931	0.31	0.50	3.05	2.53	9.35	10.19	16.83	6.68	12.26	13.73	24.69	2.93												
1932	0.90	0.42	0.93	7.85	8.10	9.80	13.40	12.18	7.41	12.67	32.62	7.02												
1933	2.16	0.08	1.67	1.62	7.22	7.88	8.50	5.53	6.35	10.27	21.19	8.45												
1934	3.49	0.29	0.46	3.06	12.08	10.10	5.78	6.33	14.23	14.60	16.15	14.20												
1935	1.75	2.81	0.07	2.42	8.16	6.99	16.02	9.55	8.28	8.09	37.40	16.55												
1936	0.54	0.08	1.83	1.25	19.89	5.71	13.28	8.15	10.68	18.73	8.63	1.35												
1937	2.92	0.23	0.00	1.92	13.63	9.77	10.71	7.49	10.32	11.60	13.13	24.13												
1938	0.68	0.89	0.47	2.83	18.34	22.47	9.00	13.08	10.45	13.92	19.55	16.85												
1939	0.00	0.06	0.18	1.27	5.10	5.93	5.08	6.14	9.70	10.97	26.12	7.95												
1940	4.18	1.67	1.05	0.38	10.60	8.43	8.85	7.05	7.34	11.39	7.38	1.55												
1941	1.73	3.13	0.57	1.58	6.60	7.71	10.92	11.92	10.44	14.07	11.60	3.37												
1942	1.40	0.81	1.79	2.01	11.40	7.70	7.27	10.30	6.59	21.20	3.90	17.44												
1943	1.53	2.00	2.06	4.98	9.00	5.58	6.25	11.04	8.18	5.64	12.66	13.03												
1944	2.92	0.14	0.20	2.72	9.71	9.26	8.16	9.74	9.44	15.51	9.23	12.67												
1945	1.50	0.37	0.20	1.95	10.63	8.49	8.95	12.32	8.57	9.91	15.73	17.10												
1946	1.10	0.14	0.55	2.25	9.40	5.54	8.77	5.69	11.76	11.79	10.90	5.27												
1947	0.35	1.21	0.53	1.47	5.32	12.74	7.35	6.99	10.30	18.65	11.88	7.71												
1948	1.10	0.03	0.27	0.82	6.82	6.16	10.94	9.90	9.39	11.47	14.98	1.43												
1949	0.23	0.07	0.36	0.37	11.39	16.36	9.97	13.47	8.50	12.51	18.53	5.82												
1950	0.14	1.49	0.46	4.30	6.92	15.23	7.58	11.43	5.39	10.60	17.43	11.09												
1951	1.66	2.92	0.18	5.24	8.84	4.51	5.13	14.37	7.57	11.30	10.29	8.47												
1952	1.88	0.48	0.09	4.28	10.15	8.72	6.73	4.19	3.96	14.07	12.07	12.06												
1953	3.91	0.65	0.78	4.08	10.99	8.38	7.66	7.52	6.67	16.00	12.12	3.96												
1954	1.23	1.11	0.94	5.35	11.61	9.18	13.62	11.19	7.49	11.28	16.16	4.88												
1955	9.32	0.40	1.54	0.12	12.10	11.16	8.71	12.32	7.10	6.51	13.88	10.09												
1956	6.23	2.09	2.96	1.60	10.27	5.59	14.46	8.16	11.80	15.44	9.52	3.51												
1957	0.30	0.42	0.14	0.04	12.44	7.43	8.49	8.95	8.03	18.10	8.44	4.86												
1958	2.65	1.87	1.80	1.29	10.23	4.55	6.85	11.23	7.06	14.07	5.66	4.09												
1959	0.17	0.02	0.05	1.66	6.59	7.29	9.97	10.05	12.28	10.17	4.50	23.85												
1960	2.41	0.00	3.13	4.61	9.47	10.64	9.99	6.43	10.50	16.20	11.44	7.53												
1961	4.97	0.69	0.04	4.50	4.65	12.26	8.76	7.75	9.56	14.88	8.18	3.89												
1962	2.54	0.00	0.27	3.36	9.89	6.17	9.88	16.03	10.56	10.30	11.95	7.75												
1963	5.86	1.71	0.00	4.35	4.47	8.14	10.83	17.09	9.98	9.42	10.14	1.36												
1964	0.00	0.38	0.48	1.45	6.92	8.91	13.62	9.45	8.76	11.69	7.39	9.07												
1965	3.01	0.17	0.00	2.20	14.69	8.65	7.53	9.16	9.76	13.68	13.83	2.70												
1966	3.16	0.82	1.18	2.40	11.44	4.85	9.20	10.98	12.72	20.81	21.78	5.45												
1967	2.24	0.02	1.98	5.53	7.41	10.33	11.34	9.20	8.52	10.06	12.40	3.92												
1968	0.00	2.84	0.88	0.37	8.04	11.06	4.67	13.62	10.59	11.11	6.27	2.57												
1969	2.05	0.00	1.31	2.93	9.92	7.31	6.68	15.23	15.22	13.06	17.47	9.43												
1970	9.42	1.80	1.87	8.35	9.40	8.90	15.20	9.60	7.35	11.70	11.85	7.78												
1971	3.16	1.30	2.00	0.00	17.30	5.10	5.80	9.50	15.30	10.50	10.70	0.70												
1972	4.90	1.20	1.00	8.10	7.60	10.50	4.30	7.40	9.40	10.90	11.60	16.30	6.20											
1973	1.10	0.50	0.00	0.50	9.00	6.90	11.80	9.10	11.60	11.50	16.30	6.20												
1974	0.40	0.10	0.50	1.20	4.20	9.90	13.00	12.30	7.20	20.20	14.80	3.50												
1975	0.00	0.60	2.50	1.00	10.20	7.70	8.20	12.40	5.50	13.50	18.20	14.90												
1976	1.20	1.40	0.20	3.50	6.40	9.60	2.00	8.60	15.30	16.20	5.60	2.00												
1977	0.60	0.50	0.50	0.20	7.90	8.10	5.70	17.90	14.60	13.30	14.10	1.90												
1978	0.60	0.50	1.80	7.50	10.80	11.20	11.10	14.00	8.20	13.70	9.30	1.90												
1979	0.10	0.80	0.10	5.30	4.70	10.10	12.00	14.60	10.20	7.90	13.00	4.20												
1980	4.10	1.80	0.00	0.60	9.60	6.70	6.60	8.30	5.60	9.10	14.00	6.90												
1981	13.30	0.80	2.00	12.60	20.30	12.40	12.80	13.30	7.30	14.50	13.70	14.40												
1982	3.20	0.00	0.40	5.00	6.30	6.10	5.70	10.70	7.00	10.60	4.40	0.70												
1983	0.40	0.10	0.10	2.00	6.50	11.00	5.50	6.30	8.90	8.00	12.90	7.30												
1984	3.60	1.40	0.50	2.10	8.10	12.90	6.40	12.90	11.80	14.80	17.10	0.80												
1985	0.80	0.80	0.10	0.40	4.10	9.50	6.40	8.80	13.70	8.30	11.80	7.40												
1986	0.60	0.40	0.80	3.10	3.40	9.20	5.00	10.10	10.80	19.50	5.90	1.20												
1987	0.70	1.20	0.10	5.60	13.80	5.80	11.20	9.30	13.60</															

1995	2.90	0.40	0.20	2.70	15.60	12.30	13.60	5.80	6.20	11.90	11.40	9.00
1996	10.10	4.60	4.50	1.00	11.40	6.20	11.20	8.60	10.70	11.20	12.80	2.50
1997	0.50	0.80	0.10	0.40	7.80	10.70	5.10	2.40	11.30	9.70	4.10	6.70
1998	0.10	0.20	0.40	4.30	9.40	11.70	7.60	10.80	12.40	12.20	10.30	9.90
1999	3.40	1.20	4.50	3.40	2.90	13.40	6.80	10.00	11.70	9.10	12.00	17.30
2000	3.70	1.20	0.00	3.40	9.60	11.20	5.70	7.80	8.00	14.20	8.80	13.50
SITE NO.= 10	RAIN	BARRO COLORADO	(BCI)									
1911	2.29	2.11	0.99	8.23	14.56	9.83	11.58	10.14	10.60	21.83	16.05	0.96
1912	0.61	2.00	0.02	1.92	8.56	8.46	10.33	11.99	11.12	21.76	10.66	8.18
1913	2.55	1.09	0.00	2.18	13.34	8.44	7.83	17.09	13.80	11.69	18.01	9.47
1914	2.90	2.76	1.33	2.47	8.77	16.98	4.29	14.29	14.65	14.47	19.86	9.06
1915	2.49	7.61	1.34	13.48	7.93	13.52	11.19	10.03	9.57	17.68	19.03	13.34
1916	1.20	3.98	3.60	7.17	9.70	10.59	8.18	14.64	8.12	17.87	12.91	6.23
1917	0.30	0.00	0.57	2.59	9.76	14.08	11.17	13.94	11.19	8.63	23.28	9.13
1918	5.34	0.79	0.91	5.58	13.77	9.91	4.89	7.89	9.37	19.48	13.21	3.88
1919	5.19	0.55	0.81	12.14	6.32	7.03	9.10	6.83	10.89	13.82	7.57	5.13
1920	2.01	1.37	1.07	0.87	4.17	9.97	10.50	9.91	9.46	19.52	14.14	2.71
1921	4.64	2.98	0.62	3.26	7.78	9.81	14.90	14.28	13.79	9.82	13.22	6.70
1922	7.66	2.29	0.00	2.50	18.85	12.70	3.22	8.46	13.62	11.54	6.69	3.27
1923	1.88	2.05	1.74	4.07	9.46	11.42	9.90	15.23	8.61	31.53	14.54	0.78
1924	0.09	5.43	1.96	8.50	13.97	11.43	18.47	10.93	17.08	12.85	32.10	7.84
1925	0.00	2.16	1.11	3.95	5.76	13.58	13.62	13.36	13.80	22.23	13.75	4.32
1926	1.06	2.93	0.52	0.27	8.50	17.58	15.02	12.15	12.07	13.90	22.00	12.22
1927	3.03	1.44	1.27	7.61	19.02	14.55	13.46	12.41	10.73	9.74	16.34	6.76
1928	1.75	0.47	2.23	1.66	9.39	9.41	9.61	16.67	8.11	11.93	18.71	11.58
1929	0.48	0.07	2.63	1.89	13.79	9.82	12.54	15.68	6.94	9.93	12.19	1.88
1930	1.91	0.63	0.26	3.29	10.02	7.39	7.26	5.93	11.55	6.06	11.77	10.50
1931	1.20	0.97	5.54	3.81	16.96	15.01	18.25	7.73	7.65	12.67	30.84	2.67
1932	1.75	0.30	1.19	4.42	7.67	11.81	12.73	10.67	6.90	14.04	31.08	10.96
1933	2.49	0.05	1.22	0.10	7.00	9.42	9.10	10.23	9.08	6.39	32.72	13.93
1934	1.52	0.75	1.83	5.76	12.04	9.02	10.59	12.22	19.96	13.70	19.68	15.35
1935	1.66	5.91	0.51	3.69	10.11	11.90	28.58	8.24	9.09	8.64	41.59	13.50
1936	0.76	0.21	1.64	2.26	11.61	5.43	10.61	13.55	12.87	19.75	11.79	3.40
1937	2.46	0.20	0.19	1.08	12.84	10.31	8.32	19.36	9.91	12.67	18.64	28.15
1938	2.24	1.15	1.43	3.33	16.71	19.31	10.42	14.01	6.07	13.75	9.60	19.07
1939	0.46	0.08	0.38	0.68	3.09	13.40	9.07	9.45	15.09	15.67	36.39	11.71
1940	4.60	2.55	1.51	0.33	9.12	12.43	5.52	11.66	10.77	16.26	9.51	2.25
1941	2.34	2.96	0.94	0.50	8.02	8.60	11.84	12.04	7.29	17.37	15.52	4.40
1942	2.80	1.58	2.72	4.49	11.01	6.35	8.91	11.41	14.02	18.72	8.18	20.91
1943	1.93	1.74	2.21	2.87	14.66	14.25	10.59	15.35	10.39	10.17	21.54	14.59
1944	2.28	0.75	0.45	6.46	15.88	10.28	7.43	21.44	7.31	17.13	7.21	15.34
1945	2.89	0.67	0.27	1.59	13.55	10.17	13.87	12.32	10.07	10.02	20.60	24.40
1946	0.45	0.32	1.71	1.41	8.05	7.94	12.38	10.50	10.67	9.00	14.98	9.77
1947	0.40	2.14	0.54	3.09	4.82	12.06	7.53	11.76	9.53	13.17	7.25	5.63
1948	1.84	0.19	0.17	2.92	10.80	6.32	11.45	10.46	6.72	10.74	20.33	1.22
1949	0.70	0.07	0.11	0.90	11.97	15.57	13.38	9.99	7.11	14.45	32.76	7.85
1950	0.20	1.87	0.48	2.73	7.86	14.66	12.37	11.48	7.20	14.02	24.19	17.45
1951	2.21	3.76	0.30	8.53	12.19	10.94	5.37	11.29	9.62	19.43	16.15	12.93
1952	2.40	0.39	0.11	-5.46	12.39	11.76	6.01	9.11	11.13	16.96	9.50	12.46
1953	4.30	0.69	1.25	6.64	9.21	3.81	15.93	15.60	5.70	18.27	19.28	4.34
1954	1.24	1.29	0.21	3.10	11.09	12.06	15.05	12.92	11.19	13.14	17.12	7.25
1955	9.05	0.46	0.90	0.37	10.58	13.54	11.49	11.36	9.27	16.33	18.35	12.72
1956	5.57	2.11	2.24	2.61	16.55	6.85	19.55	9.48	11.27	18.64	12.37	6.81
1957	0.56	0.53	0.02	0.05	6.37	5.97	10.86	21.90	12.42	17.22	17.96	4.09
1958	4.26	7.34	2.98	4.73	12.22	8.89	9.54	12.35	10.64	15.42	7.16	4.67
1959	0.32	0.15	0.11	1.33	8.89	8.29	8.86	8.62	14.69	9.03	10.18	24.41
1960	2.96	0.95	4.47	18.26	15.52	11.53	11.46	7.02	9.49	19.50	16.53	22.35
1961	1.23	0.24	0.71	5.45	7.86	10.70	7.42	19.73	13.33	17.22	10.84	5.96
1962	1.86	0.67	0.08	1.84	12.84	10.13	13.26	13.21	13.57	8.43	13.82	10.81
1963	7.94	3.14	1.65	6.38	9.08	5.96	12.83	18.87	8.06	10.19	21.60	3.24
1964	0.22	0.25	0.21	4.56	15.82	19.25	17.44	8.56	11.41	16.87	16.04	2.62
1965	2.78	0.26	0.21	1.08	9.88	8.13	7.75	9.90	11.91	10.85	23.00	7.05
1966	3.23	0.15	0.44	3.20	6.88	13.65	9.27	14.17	9.93	12.81	23.72	14.02
1967	0.49	0.51	0.52	4.38	6.28	13.54	8.74	10.94	6.98	11.87	15.15	6.48
1968	0.09	1.79	3.59	0.61	11.54	10.21	6.54	15.87	7.08	18.66	10.32	1.82
1969	1.74	0.52	0.43	4.99	9.99	6.01	12.30	6.02	8.74	12.44	13.02	10.22
1970	11.82	2.83	1.43	4.21	17.98	8.52	13.32	14.09	5.15	10.91	19.97	16.81
1971	4.17	0.68	2.26	0.11	22.55	6.32	9.73	9.40	10.10	6.90	11.80	0.90
1972	6.20	3.30	0.90	5.50	8.70	11.50	5.00	9.70	13.80	15.10	6.20	7.30
1973	2.10	0.80	0.20	1.00	11.80	13.90	9.50	6.70	12.00	10.50	22.90	3.20
1974	0.20	0.60	1.50	0.50	4.40	11.40	13.00	11.00	9.80	17.80	15.60	4.70
1975	0.10	0.70	1.60	2.30	12.40	9.00	8.90	13.10	12.40	16.70	14.00	17.50
1976	0.90	0.00	0.20	2.60	7.50	9.80	3.50	8.50	14.50	9.90	8.50	1.30
1977	1.00	2.30	0.90	0.60	9.60	8.60	7.10	24.80	11.60	16.30	16.90	2.50
1978	0.30	0.70	1.90	7.70	7.20	8.30	11.40	11.20	5.30	12.30	11.60	1.00
1979	0.20	1.20	0.30	12.20	9.80	15.10	12.80	13.00	10.70	10.10	10.70	8.80

1980	4.40	1.90	0.20	0.80	10.20	8.20	7.60	10.10	6.60	11.50	13.80	7.10				
1981	15.70	0.80	2.40	13.40	16.20	18.50	12.40	16.00	8.50	13.40	25.50	19.90				
1982	4.50	0.70	0.20	3.70	6.60	7.00	6.70	11.60	11.30	11.40	4.00	1.20				
1983	0.90	0.00	0.10	3.70	9.70	11.20	12.00	9.00	13.60	10.60	16.60	10.60				
1984	4.10	2.70	0.90	2.30	9.30	10.70	9.30	13.50	11.00	21.20	17.30	0.80				
1985	1.00	1.00	0.90	0.20	11.30	8.00	9.90	9.30	6.40	14.10	7.70	12.20				
1986	2.40	0.30	1.80	3.80	4.30	8.90	3.40	11.70	10.10	17.80	7.30	5.20				
1987	0.20	2.10	0.00	9.10	15.40	6.40	12.20	17.40	13.40	13.30	11.30	7.20				
1988	0.40	1.10	0.30	0.90	9.70	7.70	5.40	5.40	11.70	14.70	9.90	9.10				
1989	0.20	2.10	0.90	0.30	2.10	5.20	9.00	9.30	4.30	15.00	13.00	7.40				
1990	0.60	0.30	2.00	6.20	18.00	5.10	12.90	8.80	14.80	16.60	10.30	6.30				
1991	0.60	1.00	6.40	0.70	12.40	8.00	10.80	9.00	12.00	10.00	16.00	2.70				
1992	1.30	0.20	0.00	6.00	18.40	14.10	9.60	12.60	18.00	16.80	14.30	6.60				
1993	4.30	1.00	2.20	5.30	6.50	8.70	12.20	8.90	20.10	16.30	18.70	9.60				
1994	3.10	0.00	2.40	1.70	13.20	13.60	16.40	15.90	11.60	12.90	18.60	1.70				
1995	6.90	1.30	0.40	5.70	15.90	17.50	12.00	8.70	8.80	12.70	11.70	11.80				
1996	15.00	4.20	3.40	1.00	17.60	18.90	9.10	11.80	12.10	14.40	20.30	4.40				
1997	0.80	1.70	0.10	0.80	12.90	11.30	6.70	8.10	7.20	9.10	11.00	0.10				
1998	0.60	1.20	1.60	8.50	9.50	13.20	14.30	14.10	9.80	14.40	4.50	16.00				
1999	1.30	1.60	4.60	8.80	11.30	22.90	13.90	23.20	13.00	10.70	21.40	26.20				
2000	6.10	0.40	0.10	6.70	7.40	10.70	8.40	12.30	6.90	23.40	10.40	17.80				
SITE NO. = 11		RAIN	CANDELARIA	(CDL)												
1911	2.97	1.42	2.40	7.50	18.87	13.25	7.46	10.24	12.40	19.35	16.77	6.57				
1912	1.03	2.01	0.00	2.50	10.95	10.19	7.87	14.67	13.04	13.13	14.80	8.12				
1913	1.09	1.60	1.98	1.71	24.58	15.04	13.65	13.94	13.34	16.50	11.59	5.18				
1914	1.66	1.30	2.40	0.34	8.90	10.51	5.22	13.85	20.74	20.63	15.03	7.72				
1915	0.00	9.63	1.10	17.63	12.33	15.16	17.38	9.69	11.40	15.34	24.41	13.66				
1916	4.34	4.15	2.49	12.49	12.83	9.21	22.21	11.08	12.89	17.95	12.34	8.04				
1917	0.00	0.00	0.17	1.43	15.45	14.32	15.43	16.19	10.39	11.94	21.14	11.47				
1918	5.94	2.06	0.88	8.64	14.72	14.23	10.60	10.61	12.06	18.20	9.40	0.71				
1919	7.66	1.78	0.76	18.11	10.56	11.45	14.70	16.11	14.20	13.10	11.12	16.01				
1920	1.81	3.29	2.28	6.38	12.52	10.44	25.08	18.19	10.59	16.95	11.69	4.23				
1921	1.11	4.95	1.37	8.22	12.72	11.81	8.27	18.05	14.55	13.25	11.96	14.76				
1922	5.27	2.01	1.79	1.46	18.31	10.67	6.23	7.58	9.70	12.84	20.78	17.99				
1923	5.55	1.89	0.00	2.06	13.05	13.97	4.50	9.13	13.26	28.23	10.44	8.62				
1924	4.56	3.38	1.55	12.10	12.03	15.09	12.06	22.23	18.44	15.69	12.64	7.34				
1925	7.94	1.55	0.35	6.36	8.20	19.44	21.95	10.13	18.40	20.21	9.75	5.91				
1926	3.16	1.68	1.81	2.22	12.19	19.72	20.53	14.56	14.39	14.98	13.53	18.38				
1927	7.00	8.52	3.73	12.24	20.10	11.72	24.42	10.10	15.84	11.68	20.14	30.24				
1928	6.22	0.99	4.70	0.00	7.84	18.64	10.45	15.22	13.15	16.78	21.43	16.81				
1929	1.76	2.34	1.25	0.66	9.56	16.37	14.46	16.23	7.95	11.70	17.62	3.89				
1930	2.92	2.95	1.65	7.26	13.30	9.50	11.94	6.82	15.36	9.19	12.74	3.13				
1931	5.85	1.79	6.43	3.86	19.35	12.92	11.99	9.29	10.85	19.95	37.04	13.49				
1932	3.70	0.03	0.31	4.81	13.82	15.25	8.97	8.76	8.96	22.56	31.41	12.09				
1933	3.43	1.23	1.46	6.63	14.32	9.78	17.96	14.20	14.44	6.87	19.84	16.58				
1934	2.52	0.87	1.00	2.26	10.25	15.30	10.98	10.44	10.50	16.63	19.36	10.55				
1935	8.98	2.46	2.51	4.83	15.86	10.29	23.32	14.78	10.56	15.89	55.36	20.14				
1936	2.12	0.91	1.54	4.48	19.01	8.79	16.22	15.96	11.49	10.69	20.43	2.62				
1937	9.98	2.25	1.14	3.41	17.03	15.96	17.27	12.99	12.82	14.59	17.66	24.07				
1938	2.14	2.73	0.87	11.67	26.36	18.53	9.85	17.37	13.80	6.95	11.38	22.28				
1939	1.00	0.30	1.48	2.31	6.14	13.05	7.07	19.05	12.23	7.66	20.28	11.22				
1940	6.35	3.59	1.82	1.90	13.99	11.95	11.33	18.54	11.29	14.29	16.61	2.39				
1941	2.68	5.55	3.38	2.46	13.85	14.05	12.20	16.93	9.82	31.73	19.65	4.26				
1942	2.02	1.52	5.26	6.96	12.27	23.00	10.81	16.55	10.69	21.92	7.75	13.17				
1943	4.15	6.69	1.16	7.51	11.23	13.75	9.53	14.94	16.57	11.81	9.51	22.49				
1944	3.66	3.60	0.89	10.12	14.43	9.66	19.79	19.99	10.21	19.04	16.56	28.49				
1945	3.24	1.50	0.66	3.65	13.05	20.36	14.28	16.82	9.79	8.89	11.33	14.69				
1946	0.89	1.72	1.26	1.91	16.61	12.24	18.72	10.74	17.92	12.47	5.89	20.58				
1947	0.79	1.99	0.86	6.78	5.89	15.21	10.07	13.55	10.32	13.68	9.61	9.77				
1948	2.15	0.51	0.76	1.17	8.90	16.22	12.81	10.24	8.70	11.35	22.51	3.71				
1949	0.92	1.50	1.16	4.68	9.89	21.31	16.07	14.12	18.10	14.17	15.55	9.19				
1950	1.91	3.88	1.01	10.69	11.96	11.54	20.15	17.56	16.61	7.11	14.27	17.56				
1951	2.04	12.73	1.28	9.08	14.52	11.07	11.79	14.61	10.81	14.20	10.05	10.28				
1952	4.43	1.14	0.34	8.21	14.65	10.07	17.95	18.53	15.00	27.80	8.38	15.14				
1953	12.70	2.02	2.24	5.14	15.47	7.19	14.45	10.64	6.27	15.81	12.86	11.95				
1954	2.02	2.92	1.84	5.40	14.74	16.43	16.38	14.21	15.69	9.61	21.67	15.99				
1955	15.89	0.91	2.78	1.05	8.90	7.87	15.34	24.73	12.78	7.98	28.65	10.70				
1956	12.56	2.77	4.82	4.68	22.83	15.35	17.71	13.56	12.91	12.45	21.29	6.10				
1957	1.30	1.31	0.10	0.33	11.58	8.75	7.49	11.37	10.59	13.76	23.03	8.49				
1958	6.14	3.41	4.70	1.50	12.75	12.63	21.24	13.14	14.94	11.65	14.15	8.22				
1959	1.31	0.49	0.33	3.80	7.82	12.88	12.32	10.84	15.90	13.31	18.30	31.69				
1960	6.21	1.28	3.70	13.13	16.95	9.82	9.50	12.67	16.02	10.13	12.58	19.91				
1961	1.72	0.74	0.71	6.48	8.44	18.58	10.34	12.61	11.26	16.53	11.73	4.23				
1962	2.96	0.62	0.89	8.48	18.93	10.09	16.91	14.96	10.40	12.73	10.30	10.01				
1963	11.12	5.54	0.60	12.75	18.44	15.85	13.15	18.49	11.01	12.86	12.32	3.25				
1964	0.54	0.95	0.36	5.34	11.44	17.64	15.20	18.73	10.17	12.00	14.30	2.30				

UNAUTHORIZED USE OR DUPLICATION IS PROHIBITED
 PROHIBIDA LA REPRODUCCION SIN AUTORIZACION
 DEL AUTOR

1965	4.56	1.02	0.53	0.25	16.22	13.15	7.25	7.17	12.18	15.75	16.05	12.64				
1966	5.14	0.64	1.32	16.45	12.18	12.18	11.16	13.08	10.68	14.20	28.66	18.10				
1967	3.33	1.02	1.79	12.67	10.41	21.89	15.18	13.27	13.81	15.91	16.22	13.67				
1968	0.60	3.16	3.41	2.93	16.34	13.21	12.20	10.44	8.95	16.08	11.13	5.36				
1969	2.67	1.31	2.27	10.80	10.79	6.66	8.54	14.12	17.81	6.27	8.44	17.58				
1970	19.68	4.17	2.95	12.96	19.29	7.49	10.92	18.81	8.95	12.51	17.50	25.40				
1971	3.30	1.90	7.30	1.30	11.30	18.40	16.20	14.30	10.80	12.10	14.40	3.20				
1972	19.20	1.80	1.00	8.50	14.50	11.00	7.80	9.90	10.90	12.60	9.80	8.20				
1973	2.30	1.30	0.10	1.00	12.40	9.00	17.10	16.30	10.70	11.40	23.00	12.80				
1974	2.10	0.80	1.10	1.70	10.40	8.20	14.90	7.90	12.80	12.40	15.30	2.90				
1975	1.60	0.50	0.70	0.30	12.60	23.30	15.20	17.20	15.60	17.60	14.00	16.40				
1976	3.00	1.80	2.30	6.70	11.10	1.90	1.70	5.90	15.20	8.30	9.30	3.20				
1977	3.40	0.40	0.80	1.20	7.50	12.50	11.20	19.10	12.10	21.10	12.80	6.10				
1978	1.00	3.30	3.10	13.40	13.80	18.60	11.50	11.00	13.60	13.10	17.10	4.20				
1979	0.60	1.90	2.40	11.50	11.50	11.20	9.50	9.60	6.50	9.20	15.10	13.50				
1980	8.30	5.00	0.90	2.80	13.40	14.50	7.80	13.20	11.70	15.60	12.00	9.80				
1981	15.50	4.10	3.70	28.00	14.00	13.40	20.40	9.60	7.20	14.90	11.90	15.90				
1982	5.10	0.90	0.60	5.50	8.10	13.20	17.80	12.00	9.80	16.50	5.40	2.50				
1983	1.60	0.80	1.60	6.50	14.50	12.00	5.70	9.30	17.60	20.90	7.60	21.80				
1984	2.60	1.40	0.30	1.40	8.70	18.40	13.90	17.40	14.20	10.10	6.90	8.10				
1985	2.90	1.90	3.10	3.20	7.60	14.30	9.60	5.90	15.20	12.40	10.80	13.50				
1986	3.60	0.50	2.30	12.50	15.40	14.10	4.70	10.90	17.50	11.20	7.80	2.90				
1987	2.00	2.90	0.30	20.70	21.90	14.70	18.70	14.50	14.10	19.70	20.70	4.80				
1988	1.10	3.30	1.60	1.30	13.00	12.70	20.00	13.90	5.00	13.50	9.40	9.10				
1989	2.70	7.00	1.20	1.40	11.80	6.80	17.40	18.20	10.30	12.30	13.50	10.50				
1990	6.30	1.20	4.00	3.50	15.90	8.00	11.50	15.50	12.40	22.10	12.30	8.80				
1991	0.50	2.30	2.00	4.30	16.00	11.20	11.00	14.00	18.10	15.80	24.30	4.50				
1992	2.00	1.00	1.30	11.40	27.60	10.90	13.30	20.50	16.90	10.70	11.10	6.20				
1993	4.90	1.00	11.00	13.90	9.90	24.10	7.80	7.40	18.10	19.70	11.30	6.20				
1994	1.60	1.70	4.70	0.80	17.20	20.80	12.40	20.50	11.40	11.00	20.40	3.50				
1995	6.20	0.60	0.80	5.40	11.40	21.70	19.10	8.50	8.10	13.10	15.50	15.50				
1996	15.30	4.90	3.30	7.80	16.60	16.60	8.00	14.00	13.50	10.20	25.50	18.80				
1997	1.80	2.40	0.20	0.00	15.70	10.40	7.60	2.10	9.60	16.10	6.90	1.00				
1998	1.50	1.80	0.90	7.40	13.00	15.90	15.30	19.20	15.10	12.80	11.40	17.20				
1999	4.30	9.50	5.80	13.20	15.00	14.30	17.90	12.90	20.60	13.90	13.20	39.40				
2000	5.00	2.90	1.60	3.60	10.70	18.10	7.80	13.80	10.20	18.40	7.80	25.80				
SITE NO.=	12	RAIN	PELUCA (PEL)													
1911	3.06	0.51	1.56	4.30	16.12	13.96	4.26	8.32	9.51	16.17	11.88	5.05				
1912	1.70	2.15	0.00	2.43	9.70	7.66	8.02	14.10	10.61	17.65	18.75	12.41				
1913	5.83	2.18	1.05	0.66	17.34	13.34	11.11	14.26	11.13	12.49	14.32	2.75				
1914	1.64	1.50	2.51	3.55	6.61	16.29	4.33	11.62	16.22	18.16	16.52	8.51				
1915	0.21	7.35	0.35	12.87	12.18	20.51	18.32	9.03	9.68	11.21	19.36	21.56				
1916	2.34	3.05	1.44	9.51	11.99	10.33	19.80	12.18	12.37	16.78	12.03	12.61				
1917	1.00	0.32	0.57	0.08	18.77	10.54	13.43	13.83	7.72	11.68	25.64	11.89				
1918	5.78	1.84	0.66	13.13	15.08	17.62	14.45	11.35	12.57	18.12	7.30	3.56				
1919	5.34	3.30	1.68	11.97	7.99	9.46	9.49	12.03	12.39	12.01	9.51	7.60				
1920	2.68	1.54	2.27	3.62	13.25	10.29	27.51	15.70	10.58	19.96	14.68	9.16				
1921	3.75	4.62	1.27	4.50	13.59	10.65	7.36	17.75	13.64	15.96	10.08	14.59				
1922	7.28	2.03	0.72	2.20	19.46	12.46	5.05	8.66	14.37	13.24	14.76	23.48				
1923	5.57	2.17	0.55	0.93	8.77	17.30	5.62	9.32	9.09	26.81	10.61	7.97				
1924	1.77	4.36	1.56	10.59	15.10	15.60	12.43	17.61	14.91	16.06	12.01	9.97				
1925	5.85	1.74	0.00	10.83	7.57	19.51	16.82	10.14	13.11	17.64	12.65	4.71				
1926	0.27	1.77	1.46	1.38	7.72	17.91	15.20	14.32	16.97	13.70	16.50	11.12				
1927	4.03	4.37	2.66	8.71	18.71	13.74	22.73	7.30	15.04	9.98	16.01	26.88				
1928	1.64	0.63	4.26	1.25	8.22	19.21	13.86	13.29	12.06	13.06	21.33	14.01				
1929	0.16	1.75	2.91	0.00	9.69	15.54	13.34	12.13	8.24	11.13	14.25	4.09				
1930	4.70	2.13	1.50	10.00	14.41	8.91	11.48	6.55	15.75	10.17	13.94	6.59				
1931	1.21	0.00	6.08	0.86	23.50	13.09	10.14	9.51	10.58	14.15	35.62	11.93				
1932	3.61	0.21	0.46	2.46	12.51	15.94	5.24	9.70	8.88	21.41	31.73	12.54				
1933	2.69	0.00	1.06	4.02	11.74	8.13	15.25	15.30	14.89	4.95	21.19	14.21				
1934	2.74	0.49	2.01	3.49	14.25	10.90	12.14	9.33	13.41	14.95	17.11	8.20				
1935	7.68	2.60	2.20	6.28	18.52	13.69	19.30	13.67	8.72	12.73	54.32	19.93				
1936	1.34	1.17	0.88	3.52	23.55	8.23	13.47	10.99	11.73	11.36	16.55	2.30				
1937	8.34	1.38	1.02	3.21	16.45	15.36	14.27	15.36	14.30	12.16	20.42	22.15				
1938	2.32	2.46	1.02	9.21	25.89	23.61	9.65	12.85	13.04	10.25	14.92	21.13				
1939	0.95	0.29	1.33	2.21	6.53	11.97	5.57	17.68	10.34	7.43	23.37	8.94				
1940	5.17	2.82	1.50	1.41	12.80	6.76	9.05	14.31	8.15	13.00	14.11	2.06				
1941	1.83	3.05	2.27	1.73	18.08	11.91	10.04	14.14	8.38	25.46	17.27	5.35				
1942	1.46	1.03	2.56	7.19	10.84	17.08	9.39	18.00	8.15	23.88	8.09	11.82				
1943	3.94	5.19	1.27	5.13	9.22	12.00	7.19	13.44	20.11	12.11	12.47	19.42				
1944	3.20	3.12	0.56	12.71	20.39	10.17	17.23	16.70	11.48	20.96	13.11	29.16				
1945	2.53	1.71	1.27	1.80	14.48	17.20	15.19	14.71	9.64	9.29	9.69	12.87				
1946	0.45	0.78	1.07	2.48	11.30	9.80	20.56	7.52	16.53	11.08	5.06	16.49				
1947	0.45	1.32	0.61	7.48	4.98	15.61	7.85	13.64	10.22	14.13	8.14	9.95				
1948	1.79	0.80	0.62	2.27	12.73	15.95	12.68	15.24	10.35	12.77	17.35	4.20				
1949	1.17	1.41	0.82	5.12	10.78	20.10	16.24	15.62	16.99	10.25	13.89	9.04				

1950	1.68	3.71	0.89	9.82	12.75	10.78	16.60	9.24	13.05	6.94	13.12	16.51			
1951	2.16	11.87	1.75	8.50	9.36	14.78	10.74	15.24	9.99	14.46	12.14	7.20			
1952	4.08	1.01	0.45	6.00	12.76	10.27	17.65	14.67	14.84	26.10	4.10	17.45			
1953	9.70	1.85	2.38	2.68	14.79	9.86	8.70	11.14	6.80	16.26	13.20	12.20			
1954	1.87	2.26	1.53	5.10	10.55	16.97	18.14	15.85	9.36	10.51	18.66	14.17			
1955	13.26	1.02	2.52	0.98	7.32	8.48	17.45	16.57	9.55	5.41	31.16	11.70			
1956	10.87	2.94	3.75	4.81	17.48	12.15	16.80	9.18	11.25	11.27	19.02	6.37			
1957	1.30	1.89	0.16	0.35	9.47	8.74	3.64	9.65	8.13	12.16	25.04	8.16			
1958	4.22	3.38	4.68	1.47	12.51	8.47	20.18	10.05	15.85	9.70	12.56	10.22			
1959	1.51	0.73	0.44	3.86	7.85	13.61	11.62	10.35	16.06	13.11	16.61	32.43			
1960	8.31	1.23	2.89	12.78	15.96	9.19	12.70	15.78	10.52	8.98	12.46	19.96			
1961	1.55	0.49	0.84	5.30	5.67	16.65	10.78	12.99	9.95	16.04	13.75	4.19			
1962	3.07	0.93	0.68	6.30	17.54	10.13	16.31	14.59	10.32	14.10	9.75	9.40			
1963	14.71	3.55	0.89	13.42	19.36	12.83	15.01	13.76	11.89	11.43	14.94	3.57			
1964	0.56	1.61	1.28	6.18	10.20	18.01	15.09	13.33	8.55	10.83	14.40	2.51			
1965	5.39	1.52	0.64	0.00	10.17	10.28	6.27	8.97	11.89	13.80	17.60	11.62			
1966	6.28	0.83	0.74	16.01	13.47	9.38	11.35	13.13	10.96	12.66	28.09	13.70			
1967	4.01	1.56	1.79	11.31	10.12	20.02	15.65	12.15	16.84	13.69	17.00	11.98			
1968	0.68	3.83	3.06	2.32	13.85	16.10	9.89	9.45	9.93	16.02	13.59	5.93			
1969	3.24	0.96	1.93	4.23	17.09	3.05	11.58	13.32	14.80	6.59	8.58	15.25			
1970	17.07	2.59	3.53	13.02	18.94	6.58	8.16	13.31	10.12	8.84	19.32	19.81			
1971	3.23	1.40	4.87	0.61	6.70	12.20	14.80	15.20	12.33	12.70	14.30	2.10			
1972	18.80	2.30	1.30	9.60	12.10	12.50	11.30	11.70	12.30	16.10	8.50	6.70			
1973	2.30	2.30	0.10	0.60	14.80	14.10	18.10	14.60	8.60	11.00	22.60	13.60			
1974	2.10	1.00	0.90	2.50	8.30	9.50	12.70	10.70	10.10	10.60	12.90	3.40			
1975	1.60	0.20	1.20	1.70	15.40	17.30	14.30	12.80	9.30	21.60	12.70	15.30			
1976	3.10	1.70	2.30	8.90	10.90	11.70	4.30	4.00	14.30	8.20	8.70	1.40			
1977	2.40	0.50	0.60	1.50	7.40	8.20	7.00	10.90	10.20	13.00	12.90	5.10			
1978	1.50	2.60	2.70	13.60	10.50	11.80	11.50	14.80	9.80	9.40	15.00	3.80			
1979	0.50	1.10	1.70	12.50	9.30	13.40	10.50	10.40	4.80	13.40	16.30	12.80			
1980	5.80	4.20	0.50	3.30	14.90	12.60	6.20	12.30	11.20	17.10	12.90	6.50			
1981	5.50	2.80	3.80	29.90	13.80	16.60	16.70	12.30	7.40	12.30	14.10	16.50			
1982	3.70	1.50	0.60	5.00	5.70	10.40	13.50	11.10	8.80	14.30	4.50	2.80			
1983	1.60	0.70	1.30	6.00	16.70	11.40	5.80	9.30	14.50	17.90	9.60	20.80			
1984	2.40	2.10	0.70	1.40	11.40	17.30	13.50	15.70	9.80	11.60	11.00	6.60			
1985	2.00	1.50	2.40	1.50	14.30	17.00	8.70	7.20	14.50	12.10	9.60	10.70			
1986	2.80	0.40	0.90	14.80	10.60	10.60	3.80	8.20	11.30	12.10	3.00	1.90			
1987	1.70	1.70	0.20	20.00	16.10	13.60	20.60	12.50	13.70	16.80	21.40	4.80			
1988	0.90	4.10	1.50	1.30	10.00	8.10	15.70	11.50	11.80	20.80	9.30	7.30			
1989	2.10	4.80	0.90	0.50	3.40	9.50	15.10	16.90	7.20	16.20	15.20	8.30			
1990	5.20	1.00	3.20	2.60	12.40	5.00	9.30	13.00	10.50	18.20	10.90	9.60			
1991	2.00	1.90	2.90	3.50	15.10	8.80	10.10	10.90	12.40	13.30	20.80	3.80			
1992	1.80	0.60	0.60	3.90	22.00	12.90	14.40	16.40	14.30	9.60	8.10	6.10			
1993	5.60	0.30	8.10	12.00	9.40	20.90	9.90	7.50	17.90	15.40	14.80	5.70			
1994	1.30	1.80	3.70	2.00	15.00	21.30	11.40	16.90	9.50	12.40	21.20	4.10			
1995	6.20	0.30	1.30	2.80	15.50	16.70	16.80	8.30	10.30	8.20	16.00	14.90			
1996	14.40	4.20	3.40	8.60	14.80	13.90	8.80	10.70	8.60	11.30	25.20	5.50			
1997	1.60	0.90	0.80	3.80	14.20	8.70	6.00	5.70	9.70	14.30	8.50	0.40			
1998	1.00	0.60	0.80	6.90	12.60	13.30	12.40	18.20	17.90	8.90	10.20	14.90			
1999	3.40	6.30	4.40	9.10	17.90	11.70	16.90	14.80	12.10	14.20	18.60	38.80			
2000	6.60	2.50	1.60	3.10	12.80	20.80	5.40	11.90	6.80	15.90	8.10	25.70			
SITE NO.=	13	RAIN	CHICO (CHI)												
1911	0.85	4.04	0.80	0.88	12.61	9.70	3.84	8.08	14.09	22.49	11.37	4.15			
1912	0.89	0.26	0.64	3.16	11.36	11.46	-8.71	10.85	9.67	15.15	12.68	1.49			
1913	2.07	0.00	0.00	2.18	12.04	11.25	5.56	9.57	12.88	9.28	9.26	8.92			
1914	1.34	0.01	0.77	2.66	8.70	8.89	4.61	10.80	17.28	15.62	13.01	4.64			
1915	0.43	4.21	0.78	9.47	7.50	15.09	23.60	18.70	13.26	19.83	18.50	9.42			
1916	0.08	1.86	0.91	8.18	8.09	12.40	16.63	10.00	14.56	24.07	13.46	2.99			
1917	0.00	0.00	0.10	0.18	10.84	12.12	22.86	18.50	10.95	13.84	26.79	10.52			
1918	3.51	0.78	0.79	7.04	13.33	15.70	15.25	10.06	10.79	9.65	8.82	2.33			
1919	3.70	0.95	0.81	9.57	4.68	6.72	12.73	16.16	15.87	15.58	11.26	4.80			
1920	1.91	0.47	0.92	4.11	9.31	11.55	16.49	14.42	10.99	19.23	9.44	0.63			
1921	0.67	0.90	0.08	4.44	8.16	14.61	18.92	16.72	17.26	24.70	11.28	11.08			
1922	5.36	1.09	0.00	1.52	15.15	15.39	6.59	9.71	10.96	13.32	13.15	8.29			
1923	1.52	0.87	0.66	0.88	8.07	15.31	14.31	6.18	12.44	25.81	10.49	0.00			
1924	0.69	2.01	0.13	3.84	12.32	11.13	24.10	14.12	13.47	10.67	9.44	2.52			
1925	2.05	0.00	0.00	1.11	6.54	15.29	13.93	11.98	9.63	19.50	9.89	6.41			
1926	0.00	0.24	0.01	1.19	6.87	13.08	12.48	15.46	13.36	17.35	9.39	8.77			
1927	1.88	2.59	1.26	4.30	16.35	19.27	30.98	10.22	12.09	12.53	14.18	12.89			
1928	2.02	0.85	2.41	1.57	6.66	10.70	17.58	18.54	11.68	20.51	12.79	5.99			
1929	0.16	0.42	0.55	0.23	9.06	7.74	10.18	12.34	11.97	20.52	12.98	6.15			
1930	0.00	0.00	0.35	5.66	13.44	4.76	13.13	6.37	12.68	11.30	7.48	2.03			
1931	2.88	0.26	1.59	1.87	20.96	16.26	7.82	10.68	16.54	13.43	33.58	4.47			
1932	3.31	0.00	0.82	6.07	9.88	10.43	8.70	16.44	12.88	20.21	23.64	4.39			
1933	1.06	0.05	0.92	0.29	10.58	5.49	12.01	13.27	12.16	10.41	18.83	8.77			
1934	0.95	0.00	0.28	1.94	17.31	9.47	11.54	10.80	9.71	15.34	15.15	5.78			

1935	2.11	0.99	0.35	0.90	14.36	15.11	22.05	19.11	10.49	11.88	42.59	10.88
1936	0.62	0.17	0.17	2.64	16.51	11.25	12.68	11.82	16.89	12.68	10.30	2.39
1937	5.00	0.36	0.27	2.15	7.07	7.40	15.45	12.53	16.61	18.67	16.70	19.54
1938	0.30	0.86	0.37	4.39	24.29	12.02	14.70	23.35	13.15	18.74	12.30	14.00
1939	0.19	0.00	0.42	0.19	5.88	12.52	3.83	10.24	16.02	15.47	22.32	10.39
1940	1.54	1.18	0.32	0.81	5.46	7.32	4.66	11.40	12.66	14.57	14.32	0.42
1941	0.80	3.92	1.20	2.43	10.56	14.63	13.43	12.77	14.57	16.92	14.50	4.46
1942	0.71	0.23	0.21	2.37	12.21	12.98	11.29	12.72	15.34	17.40	12.19	13.11
1943	1.71	1.22	1.18	3.26	11.99	10.92	8.81	10.35	17.33	18.45	10.10	12.12
1944	1.51	0.20	0.30	7.45	11.46	12.12	14.65	16.08	9.99	19.79	7.49	9.15
1945	0.58	0.20	0.23	2.75	9.05	13.01	17.70	21.77	7.27	10.95	14.25	9.04
1946	0.67	0.27	0.23	0.30	14.50	14.30	15.33	8.75	14.91	12.12	12.36	9.51
1947	0.34	0.74	0.34	1.35	7.50	13.94	12.56	13.20	12.60	18.86	17.13	7.04
1948	0.67	0.19	0.15	1.13	6.92	11.10	22.05	5.85	9.70	14.62	13.66	3.97
1949	0.38	0.24	0.15	1.75	11.60	19.50	17.52	12.06	13.14	17.00	14.46	4.56
1950	0.31	0.91	0.50	4.57	16.58	16.08	16.00	16.75	11.42	8.47	17.44	14.77
1951	0.64	5.53	0.25	5.68	14.79	10.54	11.40	14.16	17.66	14.05	11.02	2.96
1952	1.34	0.32	0.02	6.02	12.02	9.56	11.31	10.29	17.73	19.42	10.13	10.26
1953	5.58	0.36	0.80	5.88	16.11	10.41	16.16	9.30	10.95	16.16	15.01	6.52
1954	0.20	0.65	1.08	1.05	19.69	14.48	16.77	12.27	15.33	9.76	13.47	4.23
1955	6.89	0.29	1.37	0.03	5.50	14.13	13.85	22.68	10.85	10.61	16.73	5.17
1956	6.73	1.04	0.96	1.71	13.10	11.40	17.52	9.85	10.00	16.10	16.68	3.80
1957	0.10	0.40	0.06	0.06	4.01	7.90	9.01	6.99	8.54	18.21	14.33	1.84
1958	2.62	0.37	0.96	1.51	13.72	15.99	13.93	10.58	11.19	9.21	11.09	2.65
1959	0.33	0.03	0.06	0.45	4.34	13.28	5.21	10.95	11.47	11.58	6.99	14.93
1960	4.22	0.10	0.81	2.58	19.79	11.10	15.31	13.16	11.92	23.71	13.04	19.13
1961	0.36	0.05	0.15	3.84	8.28	14.26	10.15	15.83	16.42	13.17	10.50	8.13
1962	0.50	0.00	0.42	0.97	14.04	10.32	11.28	16.02	9.48	17.51	9.70	4.80
1963	3.50	0.83	0.01	7.17	9.63	15.07	15.79	18.68	9.24	8.61	9.18	0.33
1964	0.00	0.00	0.00	5.11	7.20	12.92	16.45	11.82	10.79	20.10	12.70	4.60
1965	2.07	0.63	0.21	0.00	8.90	6.84	11.82	9.83	13.11	14.96	19.15	8.31
1966	0.00	0.00	0.88	5.98	10.72	8.96	17.41	12.64	16.56	20.33	21.49	19.30
1967	0.64	0.04	0.11	6.52	10.06	18.79	15.27	11.59	14.49	18.11	14.53	5.72
1968	0.11	1.04	0.10	1.08	9.68	13.83	9.34	14.96	11.81	24.65	11.44	2.02
1969	1.18	0.00	1.40	1.67	6.69	9.12	7.26	20.16	16.02	7.56	12.47	8.53
1970	10.68	1.19	1.36	11.80	16.92	6.65	14.21	17.01	16.11	12.06	12.15	15.25
1971	1.96	0.27	2.92	0.90	12.10	12.50	15.70	16.90	13.90	13.10	12.10	0.50
1972	2.70	0.60	0.10	7.60	8.40	11.90	2.90	6.00	10.90	11.10	9.90	3.20
1973	0.30	0.20	0.00	0.30	10.60	11.80	11.00	13.40	14.30	16.80	18.70	5.20
1974	0.40	9.00	0.10	1.20	4.80	20.40	6.80	10.30	14.00	14.40	9.60	1.20
1975	0.00	0.10	0.10	0.90	10.20	9.70	13.90	12.10	11.20	16.80	13.10	6.70
1976	0.60	0.20	0.40	3.10	10.70	11.60	4.00	13.60	9.90	9.40	8.80	1.40
1977	0.90	0.10	0.10	0.50	10.50	11.00	4.40	14.30	11.50	16.30	8.90	2.50
1978	0.70	0.20	0.90	6.80	10.60	18.40	13.50	14.70	9.50	11.10	11.20	2.70
1979	0.20	0.10	0.10	7.60	6.00	7.00	20.60	14.60	9.40	11.70	10.70	3.00
1980	1.40	1.40	0.90	0.90	8.90	9.90	6.90	15.60	9.20	12.40	14.40	3.80
1981	2.10	0.40	1.40	13.70	10.60	13.70	12.30	15.30	7.60	9.00	9.50	9.60
1982	3.20	0.00	0.00	3.00	9.20	7.90	11.30	6.20	9.00	16.60	5.00	2.10
1983	0.40	0.00	0.90	4.40	6.20	8.20	8.20	9.70	16.40	23.10	19.50	12.40
1984	0.40	0.20	0.30	0.00	12.60	18.90	11.20	21.80	8.60	19.30	12.60	1.30
1985	1.20	0.40	0.90	1.90	6.80	21.40	15.90	10.00	16.10	11.80	7.30	10.80
1986	0.60	0.10	0.80	4.80	5.50	11.00	5.50	7.60	10.20	26.80	10.30	1.40
1987	0.50	0.60	0.10	9.80	16.40	11.30	19.70	15.00	17.90	18.40	13.80	4.80
1988	0.10	1.00	0.50	1.80	13.50	8.80	17.90	18.80	18.50	20.40	14.20	3.80
1989	0.80	2.10	0.20	1.00	6.30	14.30	12.80	15.20	7.90	12.60	14.10	5.20
1990	2.40	0.20	0.80	0.80	8.30	5.90	10.20	16.20	14.50	24.70	13.80	6.10
1991	0.40	0.40	1.90	4.50	12.60	10.60	8.80	10.10	10.30	12.30	10.40	4.70
1992	0.40	0.20	0.30	3.70	16.50	21.50	13.80	15.80	10.30	11.80	5.90	4.00
1993	1.60	0.10	2.30	5.80	10.70	20.30	7.00	6.50	15.40	14.70	6.60	2.80
1994	0.70	0.20	1.00	1.40	10.30	12.20	6.90	9.60	11.60	16.00	11.60	0.70
1995	0.60	0.00	1.60	3.30	12.00	14.00	9.70	16.70	9.30	15.30	11.90	5.90
1996	10.00	1.10	1.20	5.00	11.90	21.10	7.20	13.40	16.00	13.30	15.20	5.70
1997	0.40	0.30	0.10	2.50	5.30	11.90	7.40	4.70	12.50	11.20	14.80	0.20
1998	0.20	0.10	0.20	2.50	16.30	13.00	15.00	11.30	15.70	15.80	15.40	11.30
1999	1.50	2.80	0.60	2.10	14.20	15.00	14.00	12.10	11.40	13.90	17.40	18.60
2000	1.70	0.10	0.20	2.60	8.90	15.90	6.50	18.10	13.10	18.80	6.20	19.70
SITE NO. =	14	RAIN AGUA CLARA (ACL)										
1911	0.71	2.40	1.48	4.66	22.96	14.79	8.01	9.46	7.56	16.95	17.20	1.45
1912	0.85	2.10	0.36	0.32	13.47	16.25	13.89	10.77	8.27	17.59	19.45	7.97
1913	5.53	3.70	0.20	3.82	14.74	10.45	9.96	12.31	8.07	15.23	17.56	10.71
1914	0.67	1.87	1.01	3.19	13.03	13.32	5.90	16.89	12.70	16.55	11.80	4.96
1915	1.90	13.17	0.95	17.25	8.00	11.72	19.06	13.15	13.65	18.65	19.15	11.10
1916	1.05	2.58	3.45	4.50	11.65	12.68	8.20	6.85	9.84	17.08	19.82	5.41
1917	1.62	0.67	0.66	9.20	13.10	12.74	16.10	17.05	15.02	10.75	25.92	12.30
1918	4.11	0.70	0.60	6.37	15.80	9.50	8.15	15.65	8.85	25.45	10.12	1.65
1919	1.40	0.45	0.60	13.40	9.55	13.20	9.00	10.85	9.40	17.24	7.72	8.20

1920	1.11	0.81	1.02	0.39	5.63	6.53	16.06	16.90	6.77	17.15	9.92	3.80
1921	2.01	2.81	0.85	5.88	14.85	14.05	23.04	24.38	15.28	19.31	23.70	8.71
1922	10.54	1.63	1.46	2.81	11.33	13.28	5.60	7.24	11.98	17.08	16.92	8.24
1923	3.05	0.55	0.98	1.82	12.03	12.79	13.85	14.65	14.40	44.35	18.40	7.14
1924	1.19	4.23	0.87	14.14	13.00	14.07	16.15	12.89	11.88	15.50	30.68	7.17
1925	3.67	1.10	0.83	6.91	9.41	12.01	17.19	9.06	16.62	17.00	20.97	5.45
1926	1.10	2.12	0.96	0.99	11.47	21.94	21.69	20.37	8.61	18.81	28.04	10.54
1927	6.25	2.47	1.71	18.16	23.62	19.09	27.15	15.57	17.98	15.40	21.80	4.13
1928	3.24	4.20	6.40	2.50	14.32	10.57	13.81	21.97	12.76	24.87	29.00	16.74
1929	0.00	4.61	3.87	5.83	15.51	19.01	11.80	21.26	8.73	15.14	14.14	5.99
1930	4.60	3.06	1.79	14.15	16.27	11.48	7.37	12.67	14.02	14.81	15.54	12.21
1931	1.90	2.79	12.83	2.14	23.37	13.78	18.22	13.07	13.54	14.38	51.61	8.49
1932	5.32	2.85	4.71	7.18	11.72	14.28	10.88	14.99	6.59	24.80	55.60	8.23
1933	4.70	2.29	3.46	6.90	14.49	13.02	14.64	11.62	11.59	16.56	30.52	13.92
1934	7.29	0.94	2.10	6.68	15.07	15.70	11.94	12.26	19.68	22.42	23.37	16.44
1935	3.65	4.85	0.39	5.60	13.63	11.25	36.38	16.88	16.33	11.81	65.35	12.10
1936	1.09	0.00	1.12	10.52	20.89	6.77	8.80	12.36	16.41	13.60	14.27	9.89
1937	6.29	0.61	0.46	2.59	16.73	12.46	8.77	15.99	11.10	27.15	18.96	32.21
1938	1.80	0.10	2.12	2.60	18.63	20.50	16.99	19.96	13.79	15.69	13.88	37.77
1939	0.12	0.85	4.00	2.26	7.54	17.11	3.70	18.00	18.68	28.29	34.03	11.42
1940	3.76	2.88	0.54	0.12	10.39	12.70	16.19	19.14	9.86	22.50	11.61	3.73
1941	3.56	5.12	4.79	2.10	13.50	14.04	13.69	21.95	15.83	27.89	20.44	8.29
1942	3.61	2.34	6.51	7.30	12.56	15.43	10.92	13.03	16.45	31.49	19.75	16.36
1943	3.26	3.98	0.97	4.70	24.24	19.23	8.93	12.26	14.10	21.37	23.84	28.75
1944	4.07	0.78	0.58	11.47	28.96	8.11	9.02	25.35	6.22	30.00	19.90	22.20
1945	1.32	0.11	0.55	1.98	16.65	10.35	20.87	16.95	11.00	15.62	30.35	30.23
1946	0.62	0.98	3.16	1.15	7.41	10.26	16.96	16.08	13.42	16.09	24.56	18.42
1947	0.26	1.93	0.99	4.41	8.45	10.43	12.20	13.60	12.47	17.33	7.80	7.78
1948	2.92	0.21	0.88	3.27	18.34	10.16	24.47	8.33	14.93	14.81	24.16	2.41
1949	0.56	0.70	0.87	1.95	16.10	16.86	11.19	17.49	11.28	17.08	38.85	14.53
1950	0.45	2.21	1.30	4.67	13.36	20.39	14.09	16.00	14.33	14.91	37.91	32.45
1951	2.69	7.80	0.74	8.20	17.62	9.63	10.89	15.48	12.37	16.92	22.05	13.92
1952	3.86	0.41	0.36	6.32	13.25	11.76	16.88	13.57	10.38	31.10	12.49	18.49
1953	9.22	2.22	2.68	2.85	11.57	12.88	12.56	11.92	9.23	25.89	23.05	7.52
1954	0.92	1.36	1.30	9.08	18.20	15.47	24.24	16.85	16.15	12.24	18.42	11.44
1955	14.75	1.23	0.72	0.30	10.06	11.47	8.96	13.62	9.72	18.06	25.25	12.03
1956	9.80	1.31	9.80	4.52	24.47	8.68	12.63	11.21	14.54	23.58	18.27	6.13
1957	0.31	0.36	0.10	0.22	9.02	8.63	6.24	9.92	10.70	18.23	28.02	6.36
1958	10.01	2.63	4.67	3.15	11.95	13.55	13.73	14.30	10.18	12.93	12.15	6.88
1959	0.69	0.19	0.50	4.27	7.99	11.54	9.44	9.21	18.32	14.01	16.17	38.52
1960	2.71	0.72	4.43	14.75	13.16	12.32	8.87	9.18	8.10	18.82	18.13	28.26
1961	1.12	0.21	0.50	3.56	8.08	15.45	9.91	14.16	10.58	17.86	18.75	5.47
1962	2.71	0.57	1.41	3.76	37.94	13.70	17.38	13.69	10.72	15.05	24.57	14.52
1963	0.00	4.72	0.51	2.23	18.66	15.77	12.06	16.50	12.61	16.54	31.96	6.79
1964	0.87	0.21	2.04	7.63	13.42	13.69	17.22	17.61	11.90	30.52	26.26	5.50
1965	3.01	0.95	0.92	1.52	13.69	13.68	3.17	9.20	14.55	22.80	29.34	6.04
1966	4.06	0.98	1.03	7.12	17.85	14.24	13.06	10.78	14.56	15.49	29.44	25.47
1967	1.27	0.52	1.12	6.12	10.93	17.79	14.50	12.06	12.29	20.28	27.58	6.61
1968	0.11	4.77	5.12	0.65	10.21	12.11	13.59	14.20	12.51	17.30	23.67	2.85
1969	2.32	1.68	3.44	-6.29	20.85	7.03	16.21	15.37	18.25	20.48	18.42	21.94
1970	15.40	5.41	3.07	12.61	17.22	8.66	10.21	18.55	8.64	18.80	36.70	25.00
1971	6.40	1.70	3.80	0.60	14.30	14.20	16.30	15.32	16.25	18.20	11.90	1.30
1972	11.80	4.60	2.20	9.50	14.20	14.90	4.60	10.70	11.90	21.10	9.00	7.80
1973	3.40	1.20	0.70	0.80	11.40	14.30	15.80	13.30	15.30	13.20	25.70	7.10
1974	1.70	1.20	2.70	1.30	7.10	16.80	11.50	13.80	14.40	28.90	27.80	7.30
1975	2.60	4.80	7.50	0.90	11.00	10.60	21.00	17.70	11.40	27.60	17.90	18.30
1976	2.10	1.50	0.40	7.30	11.30	10.70	3.20	12.90	18.20	20.20	12.30	0.80
1977	4.10	0.70	1.30	3.10	12.50	7.10	11.50	24.70	17.20	15.00	9.80	12.30
1978	2.40	4.80	3.20	18.10	9.70	19.30	16.20	21.70	14.50	13.30	18.70	5.10
1979	0.70	2.30	1.20	13.60	18.40	17.00	9.20	15.70	10.70	21.60	20.80	9.70
1980	9.90	6.10	0.90	3.50	11.90	8.50	10.00	11.80	6.50	10.30	12.00	10.80
1981	18.20	3.80	3.70	19.20	13.00	12.20	9.70	12.30	9.20	16.40	39.20	33.40
1982	10.40	0.50	0.30	8.20	10.90	13.50	13.00	7.60	11.60	24.80	10.30	1.60
1983	3.30	0.50	0.50	8.30	10.50	10.10	8.40	16.80	15.70	19.20	17.20	18.40
1984	6.30	1.10	0.80	2.60	9.90	16.60	15.70	20.40	9.10	28.60	29.90	3.10
1985	2.10	3.40	3.40	2.20	16.10	21.00	9.80	17.00	16.70	17.10	20.20	24.20
1986	4.40	1.00	6.00	6.80	13.30	13.70	8.90	12.30	13.50	33.20	11.60	3.30
1987	3.20	8.20	0.20	27.70	22.90	18.00	17.40	17.90	17.60	34.30	8.60	6.70
1988	0.70	3.30	1.20	0.90	14.30	11.80	20.30	26.00	24.10	29.90	15.60	12.00
1989	0.90	7.70	3.50	0.30	9.90	6.80	17.40	15.10	11.30	18.30	27.30	13.90
1990	1.40	0.30	5.80	2.60	19.40	13.30	14.70	20.20	31.00	33.90	23.30	10.00
1991	1.60	2.60	4.60	4.60	13.60	20.70	15.40	7.80	24.40	14.70	28.70	4.90
1992	3.30	0.50	1.20	14.60	36.40	13.80	13.70	18.60	18.70	14.30	9.80	5.60
1993	11.40	3.00	7.20	8.70	8.60	18.50	13.30	11.30	19.30	17.80	18.30	9.70
1994	7.00	1.20	4.10	1.90	14.20	18.40	16.80	13.90	20.10	20.80	27.60	3.40
1995	10.30	6.60	1.90	7.80	18.80	24.10	17.20	18.40	15.50	33.40	17.20	

1996	26.90	6.90	12.30	7.90	15.70	22.60	8.40	16.30	11.10	9.20	38.40	7.10
1997	1.30	0.40	0.60	0.80	14.20	15.20	5.50	8.50	11.70	8.50	24.90	1.30
1998	1.70	0.30	2.20	12.10	18.00	14.70	14.70	21.40	16.10	15.00	16.50	19.70
1999	0.80	5.10	6.90	14.70	13.10	24.10	20.30	19.40	9.30	13.90	27.70	32.00
2000	4.20	0.70	0.60	4.50	12.30	22.30	10.30	16.90	14.00	33.30	10.10	28.60
SITE NO.=	15	RAIN	LAS RACIES (RAI)									
1911	1.94	0.00	1.37	3.68	14.31	9.38	7.32	5.62	7.34	20.19	8.63	3.97
1912	1.38	1.15	0.28	3.03	11.79	11.80	7.68	11.36	16.80	20.36	5.61	
1913	3.45	1.80	1.11	2.52	17.73	11.20	8.36	13.39	11.30	11.86	10.43	4.12
1914	1.57	1.16	0.71	3.16	13.58	9.61	2.42	4.97	15.03	16.93	15.00	5.61
1915	2.46	8.88	1.15	9.27	8.51	13.01	13.61	8.38	10.14	11.41	11.65	8.42
1916	2.03	2.81	2.77	4.93	12.09	7.50	13.26	10.37	8.57	17.60	13.66	3.16
1917	0.58	0.45	0.47	4.18	11.64	9.45	11.59	16.35	8.44	10.03	28.84	9.14
1918	3.96	0.37	0.39	4.75	15.10	5.39	4.78	5.81	9.04	15.71	7.73	0.91
1919	2.47	0.34	0.38	6.34	7.28	12.30	5.67	6.78	8.44	15.85	7.56	5.64
1920	0.60	0.40	0.94	1.13	9.31	10.63	10.08	10.82	6.12	24.06	9.10	2.51
1921	1.52	1.35	0.52	2.16	6.24	10.16	12.99	17.00	11.49	12.29	13.98	10.70
1922	4.81	0.94	0.07	1.64	15.71	8.00	3.62	13.29	10.37	16.01	16.79	11.04
1923	3.88	0.46	0.57	1.62	12.28	13.36	4.49	6.36	11.37	27.04	14.07	1.21
1924	0.05	2.11	0.00	5.39	12.61	15.00	12.72	5.79	12.20	7.48	7.03	3.34
1925	0.52	0.08	0.04	0.91	6.84	9.07	11.43	4.74	12.01	11.99	8.34	1.58
1926	0.00	0.02	0.12	0.59	7.87	14.74	15.41	10.43	9.02	14.43	13.82	13.96
1927	1.87	1.71	1.36	10.99	15.85	10.67	7.42	5.28	6.79	7.17	12.27	8.55
1928	2.72	1.97	2.75	0.18	10.21	10.94	6.70	14.37	12.79	11.96	13.47	6.35
1929	1.70	0.26	1.79	1.29	12.75	8.74	5.54	7.22	8.26	11.20	8.46	4.35
1930	1.98	1.87	1.55	5.37	5.33	7.05	10.42	4.01	7.44	8.34	5.68	2.94
1931	2.73	0.00	3.41	4.32	7.85	9.40	13.78	5.19	8.93	12.20	21.21	1.89
1932	3.99	0.42	0.00	5.25	10.89	16.07	7.14	5.82	6.60	16.29	18.89	5.88
1933	4.08	0.37	1.20	1.55	6.65	11.39	5.73	4.29	10.06	6.63	16.55	6.48
1934	2.52	0.45	1.68	4.91	11.52	9.77	6.58	6.45	13.26	11.50	8.35	18.97
1935	2.73	2.69	2.69	3.31	10.52	11.42	14.51	9.39	13.75	8.45	36.64	20.24
1936	1.37	0.00	1.10	3.29	12.86	5.07	10.23	12.25	10.88	17.15	17.95	5.39
1937	2.85	0.11	0.03	3.85	14.27	9.80	7.57	8.32	10.42	16.88	9.69	23.47
1938	2.14	0.69	1.61	4.92	18.13	17.87	5.30	10.53	9.82	13.36	14.39	17.11
1939	1.54	0.00	0.91	0.00	5.82	9.19	6.30	8.32	11.47	12.16	21.53	12.13
1940	3.55	0.58	0.69	0.78	7.01	7.13	3.96	11.43	8.69	11.11	12.75	2.76
1941	4.00	3.25	2.07	4.85	7.11	10.46	9.56	11.53	8.04	13.28	8.80	4.09
1942	3.05	1.90	2.15	3.51	13.87	7.14	6.01	11.81	15.07	17.29	6.50	11.94
1943	1.73	1.85	2.02	9.22	17.26	15.46	8.16	7.42	12.02	11.05	12.63	11.72
1944	1.25	1.60	0.06	5.58	14.45	10.61	8.69	11.69	8.73	16.45	9.98	13.52
1945	1.92	0.24	0.24	1.33	11.54	9.01	7.85	7.97	8.90	6.79	17.58	11.83
1946	1.69	0.13	0.96	2.23	5.50	5.38	9.89	8.05	10.21	8.43	10.75	10.96
1947	0.22	0.68	0.41	0.42	6.16	11.27	9.90	6.05	11.21	15.66	5.65	5.50
1948	1.62	0.33	0.60	0.25	9.92	7.75	9.71	8.43	8.69	8.03	13.95	4.12
1949	0.31	0.28	1.32	0.48	7.14	9.90	10.40	11.12	5.23	16.30	21.21	9.73
1950	0.19	1.06	0.77	2.94	9.22	8.46	12.13	10.09	11.50	11.41	18.82	13.60
1951	0.61	3.28	0.30	5.67	7.01	3.41	5.08	4.07	11.25	16.51	9.18	6.20
1952	2.95	1.28	0.12	2.27	6.05	6.10	5.96	7.01	4.94	21.48	10.43	10.45
1953	4.91	0.46	0.81	1.14	9.52	5.93	11.24	6.95	11.52	13.80	14.87	5.60
1954	1.57	0.82	0.73	2.46	10.05	8.43	6.65	6.44	8.11	10.77	12.01	6.54
1955	9.18	0.72	1.20	0.82	10.86	8.53	8.18	13.90	14.19	13.38	21.74	10.44
1956	5.53	2.10	3.72	4.26	12.21	6.52	13.50	5.56	6.57	14.03	14.25	4.02
1957	0.48	0.18	0.09	0.00	9.84	7.91	10.25	9.92	6.39	10.93	9.05	9.47
1958	3.19	3.63	2.60	5.59	5.92	4.84	12.75	10.44	8.43	13.29	4.93	4.39
1959	1.08	0.06	0.20	3.60	8.20	16.94	8.31	8.39	10.92	12.37	10.67	19.91
1960	0.43	0.59	3.89	9.32	10.99	11.72	3.37	7.62	6.96	12.41	11.74	21.19
1961	0.66	0.14	0.09	3.40	6.07	9.04	7.64	13.12	8.08	12.14	11.14	7.77
1962	3.73	0.00	1.24	1.42	7.82	8.00	7.74	6.15	9.87	6.43	8.59	5.81
1963	4.65	0.52	0.40	4.19	11.59	7.70	11.76	14.76	10.34	18.61	12.22	1.25
1964	0.00	0.00	1.53	5.25	10.78	8.91	9.90	9.00	10.56	10.79	9.60	0.70
1965	4.88	0.23	0.00	9.40	6.35	7.12	7.03	13.87	11.60	20.80	3.83	
1966	0.94	0.29	0.58	3.26	9.92	10.64	9.85	13.67	8.50	9.82	26.14	17.05
1967	1.18	0.05	0.77	5.45	5.11	9.98	9.98	7.58	8.76	9.56	14.75	2.88
1968	0.00	2.32	1.39	0.53	11.73	6.35	5.85	8.13	5.69	10.99	7.85	1.20
1969	3.03	1.28	0.49	4.17	13.01	6.87	10.06	4.93	12.56	10.58	14.25	9.61
1970	6.46	0.45	3.21	2.66	10.92	8.34	12.68	10.05	9.02	7.61	20.37	16.43
1971	3.12	1.92	2.61	0.02	11.95	8.00	9.50	8.80	12.20	7.00	11.20	0.40
1972	4.50	1.00	2.20	11.20	6.40	9.50	2.10	5.60	11.00	10.40	6.50	5.80
1973	1.10	0.40	0.30	2.50	5.00	9.10	7.30	10.40	10.70	14.50	20.50	3.50
1974	0.00	0.20	0.90	1.40	7.30	4.40	11.50	12.70	10.70	12.40	18.40	3.80
1975	0.10	0.30	1.10	0.40	7.30	10.40	5.50	17.10	6.40	15.70	13.50	14.00
1976	1.00	0.20	0.10	4.60	7.30	7.00	3.70	6.70	17.50	9.50	7.60	3.50
1977	0.90	0.30	0.00	0.00	7.30	7.40	6.10	12.80	8.60	11.60	11.30	4.40
1978	2.60	0.60	3.60	12.20	5.90	10.10	7.70	8.30	9.10	7.40	6.80	2.00
1979	0.30	0.90	0.10	5.50	8.20	8.70	6.20	12.20	9.70	12.10	12.10	5.00
1980	4.40	0.60	0.00	2.20	11.00	9.00	10.70	11.20	6.40	8.00	10.00	5.00

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	PERCENT
1981	4.50	0.60	1.10	14.10	10.70	11.00	12.30	6.80	3.10	7.20	19.20	11.40		
1982	5.30	0.50	0.90	5.30	9.00	6.50	4.30	3.90	7.30	15.20	5.50	1.60		
1983	1.30	0.10	0.60	2.30	13.80	12.00	8.20	7.90	9.40	10.10	7.40	8.60		
1984	2.90	1.80	0.30	1.40	11.80	6.30	4.00	14.00	5.10	9.80	12.60	2.10		
1985	3.80	1.60	0.20	0.20	9.40	11.60	6.30	8.10	8.90	7.30	9.00	12.90		
1986	1.10	0.40	0.40	11.20	7.10	6.90	7.00	6.20	10.80	13.20	5.90	2.90		
1987	1.30	2.00	0.00	6.90	16.00	5.10	8.60	10.50	12.40	14.90	7.20	4.80		
1988	0.30	1.00	0.10	2.50	8.00	14.60	6.50	12.50	16.20	8.30	12.60	4.50		
1989	0.30	0.00	0.10	0.60	4.30	4.60	4.70	8.40	11.90	14.90	14.00	4.40		
1990	0.50	0.10	1.40	2.80	11.00	5.70	9.80	6.00	11.00	16.00	8.40	10.10		
1991	1.40	0.70	4.80	1.90	18.80	6.70	8.90	4.60	13.00	13.10	13.60	2.80		
1992	0.40	0.90	0.20	6.40	6.30	10.00	9.60	9.30	10.40	8.00	11.70	6.20		
1993	2.60	0.20	3.10	7.20	8.10	10.90	5.10	7.90	14.20	14.30	10.40	5.70		
1994	2.40	0.60	1.90	3.00	12.10	7.70	1.00	7.40	8.50	6.00	13.40	2.20		
1995	6.00	0.10	1.10	3.50	7.70	12.00	13.70	5.30	6.80	9.10	11.80	7.40		
1996	14.60	5.60	2.70	3.50	17.80	8.30	6.90	7.70	11.10	7.20	9.70	4.70		
1997	0.80	1.30	0.00	1.30	5.60	5.00	6.20	7.50	5.40	4.80	3.40	0.50		
1998	0.30	0.90	0.90	8.60	13.90	10.60	10.40	11.40	6.30	18.80	5.50	15.70		
1999	3.10	1.60	3.70	2.80	6.60	13.60	7.30	15.80	15.20	10.10	16.20	16.00		
2000	3.90	0.80	0.10	2.40	8.50	19.50	7.80	8.10	5.10	14.80	8.00	21.20		
SITE NO. = 16	RAIN	SAN MIGUEL	(SMG)											
1911	5.64	1.33	2.44	12.10	22.73	10.46	5.31	8.37	9.36	14.79	14.83	6.52		
1912	6.54	2.72	0.00	6.33	12.18	17.31	11.46	13.33	10.17	17.00	23.00	12.67		
1913	0.00	1.41	1.05	0.00	19.61	14.22	13.37	10.02	11.92	14.47	11.88	5.66		
1914	0.23	2.19	4.37	7.36	12.47	9.14	7.67	14.55	23.49	20.42	17.90	8.09		
1915	2.54	10.20	1.18	17.48	13.62	16.55	24.28	10.27	9.77	12.58	19.80	9.91		
1916	3.59	4.45	0.04	23.15	18.97	7.79	17.90	9.11	11.18	14.55	9.36	6.40		
1917	0.00	0.00	1.81	3.90	13.62	11.62	21.11	14.97	11.99	7.39	18.93	9.65		
1918	6.05	2.79	4.26	5.85	15.75	17.29	18.83	16.01	14.99	19.78	13.95	0.42		
1919	3.93	2.28	0.00	23.29	13.82	11.53	9.88	11.34	19.37	12.10	10.42	18.26		
1920	4.79	2.43	4.17	5.44	11.95	9.30	30.75	16.97	8.77	12.65	12.91	4.83		
1921	0.00	4.33	0.32	9.77	16.23	11.87	11.44	20.36	13.24	14.57	12.06	14.41		
1922	14.74	4.39	5.49	10.66	18.99	11.36	5.13	7.29	8.95	7.70	15.77	8.36		
1923	3.49	2.30	0.66	4.52	16.23	15.57	10.22	12.64	12.50	23.48	12.06	21.53		
1924	3.41	3.18	0.19	13.25	22.23	11.77	17.07	21.81	18.57	10.32	8.86	4.44		
1925	7.18	3.40	1.51	16.64	9.16	23.88	19.43	9.42	11.62	18.06	10.87	8.22		
1926	0.76	1.33	4.11	12.46	22.13	23.41	19.90	16.32	12.90	10.86	19.58	14.67		
1927	5.15	7.26	6.20	18.48	33.93	14.19	24.49	13.62	12.03	5.45	22.09	29.97		
1928	6.14	2.38	8.79	1.67	11.00	23.00	10.94	14.44	14.45	18.95	25.68	10.61		
1929	0.00	4.71	3.00	6.36	10.72	23.16	25.45	23.75	8.95	7.40	11.94	10.88		
1930	8.47	1.36	4.41	14.21	12.98	9.83	12.89	8.93	11.33	6.29	11.50	10.64		
1931	7.58	4.93	13.78	2.00	24.09	17.22	16.28	10.76	14.40	23.69	35.61	22.88		
1932	5.64	1.17	5.01	6.85	12.34	10.54	9.46	6.42	7.80	22.97	31.80	24.75		
1933	13.61	2.12	3.86	8.54	20.00	15.55	26.05	14.82	12.90	5.53	18.48	15.41		
1934	1.02	0.00	3.10	3.55	17.10	9.67	11.99	14.78	13.35	16.60	27.65	18.38		
1935	5.40	3.17	1.44	4.33	16.32	12.29	21.31	14.01	10.45	13.61	56.94	33.47		
1936	6.73	2.46	0.00	4.09	16.80	8.54	15.75	19.25	16.14	19.13	21.73	9.51		
1937	9.81	3.84	2.90	2.01	16.74	16.70	14.08	15.49	16.82	13.07	34.37	21.47		
1938	4.00	4.70	3.87	17.78	29.56	25.31	11.38	15.33	11.11	6.24	11.10	14.66		
1939	1.80	0.00	2.87	-0.28	5.99	16.43	7.89	16.58	14.67	16.73	17.89	5.40		
1940	5.10	2.11	0.61	3.65	21.22	12.71	14.92	16.57	13.75	14.44	22.34	11.51		
1941	3.23	5.75	8.60	3.52	15.12	19.14	12.59	16.65	9.20	24.72	18.84	5.12		
1942	2.65	2.59	8.67	7.37	10.05	21.87	9.89	12.74	12.05	17.63	7.56	10.92		
1943	2.81	2.67	1.71	7.25	15.02	11.67	-6.57	12.07	13.87	7.74	9.22	21.31		
1944	2.70	1.81	0.82	5.98	8.52	11.28	8.82	13.47	11.51	21.64	11.57	17.20		
1945	1.97	0.83	0.70	2.50	11.63	15.10	17.42	17.08	10.06	9.32	9.74	11.20		
1946	0.50	0.67	1.56	1.81	15.71	9.85	18.44	8.69	10.57	7.96	6.03	13.45		
1947	0.51	1.84	0.80	5.54	5.35	14.61	7.31	15.72	8.72	0.00	0.00	7.75		
1948	1.56	0.74	1.06	1.63	6.05	11.00	12.22	9.76	9.14	8.70	14.34	2.19		
1949	0.23	0.64	0.43	4.23	10.32	19.96	15.27	14.07	13.21	14.95	15.64	5.68		
1950	0.65	2.31	0.29	9.79	13.33	11.07	15.84	20.94	8.42	11.07	12.59	15.54		
1951	1.25	5.32	0.97	9.74	11.31	10.03	7.41	17.36	12.26	15.34	9.03	6.41		
1952	1.46	0.19	0.04	7.70	18.03	9.51	21.14	21.48	20.44	22.06	9.17	21.00		
1953	17.11	4.43	5.15	5.62	18.04	7.21	15.98	15.22	7.11	12.78	15.05	15.87		
1954	4.12	5.22	3.52	7.30	15.69	16.45	16.69	17.82	10.35	10.53	26.29	22.30		
1955	21.49	2.65	5.00	2.76	12.18	8.78	15.80	20.11	9.35	7.14	36.51	15.70		
1956	18.97	4.61	10.90	8.52	23.12	12.60	18.24	16.81	10.50	11.51	20.81	15.47		
1957	3.20	3.08	0.48	1.26	15.03	7.99	6.66	11.87	7.92	17.40	30.43	13.59		
1958	13.26	5.89	5.85	3.63	12.39	9.51	18.34	9.39	16.46	12.15	15.59	11.05		
1959	2.63	1.42	1.10	9.07	11.33	19.16	14.35	10.90	26.14	16.40	26.50	28.02		
1960	5.14	2.80	5.57	21.90	17.73	13.04	11.90	11.82	9.64	10.66	16.20	27.94		
1961	3.50	0.92	1.64	9.41	11.83	19.21	13.03	11.97	10.52	15.14	7.60	3.30		
1962	7.57	2.57	3.78	10.89	21.10	9.84	11.42	12.18	9.58	16.00	21.80	11.10		
1963	8.52	6.01	1.77	14.29	23.07	15.78	19.37	18.31	13.50	9.00	15.86	9.88		
1964	0.00	1.04	1.85	7.73	10.75	18.47	15.75	26.71	15.28	16.72	13.61	3.15		
1965	7.78	0.04	0.04	0.04	20.12	19.73	8.76	10.35	15.69	19.26	24.39	16.89		

1966	9.14	1.74	2.54	18.40	15.34	13.58	9.17	11.45	14.88	13.75	33.85	18.09
1967	5.47	1.79	4.56	17.37	12.97	17.89	15.10	12.50	11.60	10.05	21.29	16.03
1968	1.05	5.22	7.46	5.36	17.99	15.32	16.47	12.89	9.61	17.15	9.94	9.79
1969	5.91	2.65	2.59	4.46	24.17	5.87	16.76	12.93	13.48	7.14	14.00	28.36
1970	29.19	6.65	5.09	16.50	23.99	10.10	12.52	15.67	11.42	15.02	18.31	14.09
1971	6.84	2.48	9.32	0.33	15.29	21.60	18.70	11.90	10.00	20.30	16.80	4.90
1972	31.30	3.30	1.50	13.90	17.10	17.80	11.70	11.90	13.40	14.20	12.00	11.90
1973	4.00	2.70	1.10	2.80	17.50	11.10	14.80	16.70	11.20	9.00	25.50	15.60
1974	3.50	1.80	2.60	3.30	10.40	10.30	14.30	9.70	15.50	12.00	22.10	5.50
1975	3.30	1.70	3.00	3.40	22.70	25.00	21.60	21.70	11.00	18.80	17.20	22.20
1976	5.00	3.90	4.70	10.40	9.80	9.20	5.60	11.00	19.40	15.30	13.40	2.70
1977	8.70	1.50	2.50	4.80	10.10	11.20	11.40	19.70	13.40	28.70	16.70	12.00
1978	3.60	6.50	4.20	16.40	19.40	8.10	20.00	15.90	15.40	6.80	17.10	4.40
1979	1.00	3.90	4.10	14.50	11.90	14.80	13.40	8.60	10.20	7.40	19.00	20.10
1980	9.90	7.00	1.90	4.60	12.30	16.20	7.10	12.00	9.30	13.50	13.70	11.60
1981	14.60	6.10	3.50	43.70	15.20	10.80	21.00	8.20	11.10	15.10	17.10	23.20
1982	6.90	2.50	1.80	8.00	7.10	11.40	18.70	13.40	10.90	16.20	6.80	6.30
1983	3.40	1.30	2.20	8.20	17.00	12.50	10.10	10.80	15.20	14.80	11.10	37.60
1984	4.60	4.40	1.10	1.90	11.40	13.50	17.60	22.20	9.80	14.10	15.50	8.50
1985	4.50	3.20	5.20	4.80	15.80	18.90	10.10	7.80	14.50	15.80	10.20	15.60
1986	6.60	1.10	3.70	15.50	19.60	20.80	7.60	16.80	19.70	11.80	16.70	4.50
1987	3.80	5.60	0.80	25.60	31.60	18.10	17.10	15.90	20.30	16.90	38.00	16.80
1988	2.00	11.30	5.00	3.90	16.90	11.70	31.50	24.10	6.80	25.00	10.00	3.70
1989	5.30	8.70	0.00	0.00	12.60	16.50	21.50	13.50	12.80	19.80	18.80	11.70
1990	7.00	1.20	6.00	5.60	16.70	10.80	10.60	15.50	12.40	24.90	10.80	7.60
1991	2.60	4.40	3.30	6.40	19.70	10.80	8.70	10.80	22.90	12.40	30.20	6.60
1992	3.80	2.70	2.80	17.20	34.20	16.00	13.90	24.50	13.10	10.70	16.60	12.60
1993	7.60	1.90	13.40	19.50	11.50	21.10	11.20	8.90	18.20	25.50	15.60	14.30
1994	3.30	3.50	8.60	3.30	23.70	26.00	15.40	22.80	11.80	13.00	31.80	8.90
1995	11.50	1.90	6.20	10.20	15.10	25.40	25.10	10.50	15.80	12.40	20.10	33.90
1996	31.20	13.70	11.60	10.40	26.00	17.20	10.50	13.40	11.20	11.10	33.30	24.40
1997	3.80	6.50	1.80	3.80	20.40	10.70	9.70	9.30	8.30	9.70	6.60	3.00
1998	3.60	3.00	2.90	12.50	13.80	18.50	15.20	21.30	13.10	10.60	12.70	22.90
1999	7.10	8.40	10.50	17.70	16.40	16.30	22.20	14.00	10.50	14.20	17.80	46.50
2000	9.40	4.20	3.60	7.40	17.50	20.00	12.50	16.30	10.70	19.90	12.80	31.10
SITE NO.=	17	RAIN	EL	CHORRO	(CHR)							
1911	2.95	1.79	2.07	4.24	16.97	9.63	5.66	2.89	6.73	17.38	8.09	0.00
1912	0.54	1.92	1.94	5.35	9.65	5.24	5.45	10.91	14.88	15.87	14.96	10.88
1913	4.06	0.85	0.79	4.79	16.68	8.73	9.33	16.43	17.68	5.49	9.66	5.76
1914	1.03	0.27	2.16	1.59	16.63	14.05	4.09	8.43	14.60	11.96	12.94	9.62
1915	1.65	6.99	3.22	13.41	6.96	11.96	8.45	9.47	12.72	14.12	6.60	5.47
1916	3.78	2.97	2.74	2.00	11.48	6.50	13.22	9.64	10.74	16.24	7.47	1.70
1917	0.15	0.31	0.00	2.66	12.69	9.69	9.78	16.24	14.90	10.49	23.25	5.28
1918	4.89	0.75	1.59	5.60	18.60	5.18	3.17	9.81	12.94	14.85	5.06	1.10
1919	2.34	1.02	1.17	6.66	9.76	11.91	6.80	9.87	10.14	13.95	11.64	8.77
1920	2.41	0.52	1.33	2.15	7.23	8.92	10.29	7.67	8.43	17.91	7.69	0.53
1921	1.42	2.64	0.74	1.86	7.59	9.69	12.00	16.93	17.64	11.18	6.81	11.70
1922	6.16	1.51	0.22	0.00	12.17	10.98	3.46	9.79	9.74	14.01	9.62	7.84
1923	2.45	0.91	0.00	0.00	10.19	15.35	8.65	10.41	11.64	23.34	13.14	1.31
1924	0.00	1.36	2.49	7.93	13.00	14.47	13.62	10.77	15.26	12.53	10.04	4.56
1925	2.76	0.06	0.27	1.34	4.26	8.87	9.48	5.39	20.61	13.95	13.56	1.50
1926	3.61	1.14	0.99	0.32	9.97	9.20	7.85	8.05	14.04	15.94	22.54	7.93
1927	5.02	2.43	1.32	5.62	11.45	20.01	11.62	7.52	13.41	7.15	14.19	8.07
1928	2.91	1.71	4.44	0.34	8.97	12.49	6.01	12.68	17.05	15.80	15.25	0.68
1929	0.00	0.00	2.79	2.30	14.00	4.74	4.96	10.22	11.46	12.87	10.01	4.98
1930	3.82	0.86	0.66	4.24	7.65	4.51	7.11	9.75	7.11	7.64	5.19	0.90
1931	6.46	0.36	2.82	3.88	8.64	6.81	11.11	5.55	11.68	13.09	12.90	2.19
1932	5.03	1.67	0.17	7.09	10.31	10.88	6.64	8.29	5.56	16.30	16.23	8.15
1933	2.82	0.04	1.24	3.75	9.68	5.59	6.81	7.64	8.53	7.05	20.54	7.52
1934	1.12	0.00	0.86	3.26	12.71	8.13	6.62	9.16	10.22	14.79	11.77	11.28
1935	6.63	3.45	1.97	3.96	12.35	11.35	15.90	10.37	17.50	17.02	26.63	19.56
1936	2.16	1.47	0.44	2.63	16.52	3.76	8.84	7.81	13.88	15.23	9.19	1.34
1937	2.55	0.92	1.13	6.02	10.52	5.14	6.10	8.73	20.18	13.25	15.01	22.54
1938	1.48	0.37	0.74	0.32	15.28	20.03	6.73	17.08	11.19	13.52	11.83	12.62
1939	1.09	0.00	1.23	1.86	8.18	2.93	1.14	6.15	11.40	7.46	15.77	5.99
1940	1.17	1.50	2.33	1.95	9.86	6.71	7.05	11.98	8.56	13.44	10.40	1.83
1941	3.75	4.00	0.00	2.11	7.91	7.61	5.07	17.65	15.94	17.92	13.80	3.66
1942	2.18	1.35	3.66	5.64	12.26	8.51	6.21	13.13	12.44	13.99	6.10	18.04
1943	1.21	2.70	4.53	4.44	14.93	14.07	12.59	12.89	13.09	5.11	14.95	15.26
1944	1.96	0.16	1.83	6.52	16.07	12.63	9.46	11.02	11.50	11.12	12.29	17.56
1945	2.09	1.15	0.69	4.07	12.00	8.27	11.37	14.42	7.02	8.44	20.00	9.56
1946	1.17	0.83	0.85	0.00	6.07	3.88	13.15	8.56	15.71	9.49	7.00	8.72
1947	2.12	1.80	1.83	3.30	6.61	10.69	8.45	17.02	29.98	21.26	6.00	5.30
1948	1.72	0.16	0.29	0.25	8.90	5.11	9.73	10.50	10.07	7.66	20.45	2.90
1949	1.06	0.33	0.13	2.13	10.81	11.74	6.32	11.40	19.29	16.38	19.53	9.74
1950	0.73	1.75	0.23	2.89	14.86	16.57	11.69	9.53	12.76	10.05	21.30	13.23

1951	1.49	4.49	0.40	5.04	7.97	5.32	11.01	7.80	10.24	9.41	15.64	6.46				
1952	2.96	1.53	0.17	3.06	7.78	6.03	3.71	8.06	5.79	14.34	8.39	11.86				
1953	7.32	0.15	0.44	1.74	10.65	3.84	6.05	4.96	7.17	11.25	16.40	5.99				
1954	1.16	0.84	0.61	4.61	16.29	12.29	14.71	15.02	10.68	10.43	15.07	6.44				
1955	8.76	0.49	2.35	0.98	11.52	9.50	9.87	15.16	11.59	9.03	16.63	7.55				
1956	5.05	0.98	2.41	4.25	11.71	8.40	11.67	4.46	9.06	14.35	7.83	2.91				
1957	1.07	0.19	0.13	0.02	15.53	5.93	7.71	9.22	4.81	13.75	8.26	6.60				
1958	5.85	4.94	3.90	2.75	11.62	11.31	6.24	10.80	11.63	12.93	4.96	3.62				
1959	0.53	0.00	0.39	2.37	7.14	9.83	6.24	7.28	10.32	15.61	7.82	15.53				
1960	2.28	0.36	5.05	9.78	8.86	14.73	7.94	9.36	11.22	8.95	10.77	20.55				
1961	0.98	0.46	0.98	1.11	7.86	11.26	5.20	9.23	20.27	14.79	13.40	5.23				
1962	0.83	0.92	0.82	3.07	10.06	8.99	11.62	12.20	15.47	9.71	10.68	8.10				
1963	3.97	1.14	2.29	9.02	10.84	15.41	12.42	21.08	18.13	11.34	10.83	7.44				
1964	1.02	0.00	0.08	6.27	11.82	10.99	9.86	15.44	12.89	12.01	16.03	3.02				
1965	4.33	0.19	0.00	1.90	4.92	4.13	2.39	10.73	6.82	18.36	17.07	4.91				
1966	1.86	0.02	0.85	2.46	10.68	10.67	7.91	12.93	11.58	5.30	22.04	12.15				
1967	1.45	0.41	2.11	4.40	8.42	10.20	7.30	12.44	10.63	15.14	10.60	1.93				
1968	0.21	5.08	2.58	0.52	15.31	18.44	3.15	11.33	15.18	15.72	10.54	1.53				
1969	2.49	1.40	0.14	6.85	9.02	9.66	5.21	12.07	6.81	16.59	15.09	6.92				
1970	6.12	2.07	4.25	4.52	12.81	8.63	6.40	12.04	13.01	10.60	15.66	16.93				
1971	4.27	2.17	2.68	0.19	17.69	12.73	6.01	12.70	7.70	10.40	12.20	1.60				
1972	6.30	2.00	1.10	10.10	8.30	12.00	4.00	6.80	11.60	10.50	7.80	2.00				
1973	0.90	0.10	0.00	2.70	9.00	11.20	4.90	5.20	10.60	18.90	19.50	8.10				
1974	0.30	1.00	0.70	1.20	4.80	6.50	9.70	7.20	7.20	18.00	15.50	1.70				
1975	0.30	1.20	1.00	0.70	12.40	12.60	7.90	12.50	12.30	26.80	18.60	14.70				
1976	1.30	0.90	0.00	4.70	8.40	4.70	3.50	4.00	12.40	14.10	4.90	2.40				
1977	0.70	0.40	0.10	0.90	9.90	4.30	6.50	10.70	8.30	16.10	12.00	3.60				
1978	3.30	0.50	3.10	11.90	14.00	14.00	9.70	10.70	7.80	14.70	6.80	1.00				
1979	0.50	0.00	0.10	5.20	8.00	12.00	13.20	8.10	10.20	8.50	6.10	4.00				
1980	3.40	1.90	0.10	1.70	14.80	9.60	15.30	8.90	7.80	12.20	16.90	7.00				
1981	6.70	1.20	1.50	12.10	14.70	10.30	10.30	12.80	5.70	8.30	14.70	9.70				
1982	5.80	0.50	0.80	2.70	10.50	7.50	5.20	10.40	8.60	15.10	5.50	0.60				
1983	1.10	0.40	0.70	1.10	8.60	5.40	6.50	10.20	10.90	9.70	9.80	6.00				
1984	3.60	3.80	0.80	1.00	10.80	1.20	4.80	16.40	15.00	12.50	15.70	1.70				
1985	2.90	0.90	0.70	1.50	6.40	12.80	7.50	6.40	8.70	4.20	7.10	8.00				
1986	2.30	0.40	0.40	8.30	10.60	7.10	4.60	9.50	7.50	14.40	15.20	2.40				
1987	1.30	0.80	0.10	3.60	13.00	6.10	8.90	9.20	21.20	9.10	2.50	3.90				
1988	0.20	0.80	0.20	2.10	10.20	11.40	10.70	9.20	11.00	8.40	11.60	6.30				
1989	1.30	1.40	0.50	1.10	6.80	8.10	8.60	10.10	9.40	9.30	12.50	6.50				
1990	0.60	0.10	1.30	2.30	19.00	6.90	8.70	10.00	15.90	16.30	13.20	3.30				
1991	1.30	0.30	8.20	0.20	15.00	5.50	5.10	5.20	13.10	8.50	11.30	4.60				
1992	0.00	0.40	0.10	6.40	10.80	9.80	7.00	9.10	16.90	7.20	9.30	4.80				
1993	1.50	0.70	3.10	7.20	9.10	11.20	4.90	5.10	15.70	14.10	16.80	5.60				
1994	2.20	0.30	2.80	1.50	7.70	7.10	3.50	6.20	7.20	15.90	16.10	0.10				
1995	4.00	0.10	0.40	4.30	10.70	9.20	8.70	12.60	9.40	11.80	9.80	9.80				
1996	12.80	3.40	4.60	3.00	12.40	12.30	8.20	9.10	14.00	10.20	13.40	2.60				
1997	0.90	0.60	0.00	1.50	4.30	3.50	8.10	3.80	9.90	4.00	11.40	0.80				
1998	0.50	0.50	1.50	6.70	8.70	7.60	7.10	4.00	9.40	11.60	10.60	19.30				
1999	3.20	2.00	3.80	4.00	5.00	13.60	6.10	17.70	14.00	6.70	16.40	14.60				
2000	4.60	0.90	0.40	2.00	12.70	12.50	6.90	15.20	6.90	12.90	7.50	10.70				
SITE NO.=	18	RAIN	CIENTO (CNT)													
1911	1.66	2.91	0.14	0.77	31.32	12.20	9.13	12.09	7.00	19.47	17.78	0.00				
1912	2.66	2.49	0.00	0.96	11.79	10.28	7.87	8.24	9.48	35.35	18.99	9.28				
1913	7.57	3.82	0.00	2.77	22.06	11.53	11.17	14.46	12.93	12.65	19.08	9.73				
1914	0.55	1.26	1.27	1.75	7.48	13.34	7.68	17.76	22.09	29.13	21.82	9.22				
1915	4.57	6.84	2.71	19.19	10.77	14.86	22.45	7.21	12.94	16.59	23.08	14.07				
1916	1.24	3.11	2.21	3.79	16.31	10.80	8.14	7.71	7.27	14.92	16.94	10.94				
1917	2.51	2.08	0.67	6.64	12.24	17.17	12.24	12.00	10.67	12.26	17.86	8.93				
1918	6.67	0.23	1.62	7.38	14.95	10.64	8.17	14.16	12.48	26.27	10.33	5.26				
1919	3.77	1.43	0.13	10.78	9.74	10.36	8.56	9.27	16.75	16.58	11.99	8.14				
1920	2.73	0.60	1.38	1.53	10.06	10.61	13.83	13.33	8.53	14.97	12.24	1.26				
1921	0.00	2.67	2.26	6.65	13.54	12.03	13.52	12.88	17.68	15.96	21.99	10.38				
1922	9.31	3.70	0.00	2.13	13.60	9.90	5.79	9.23	11.61	12.50	9.13	6.72				
1923	1.94	2.33	1.09	0.00	8.53	10.12	12.04	10.00	10.60	47.12	12.97	8.24				
1924	0.00	2.05	2.14	7.72	20.06	13.50	14.71	9.11	11.69	15.24	25.25	12.02				
1925	4.76	1.84	1.37	9.16	7.64	12.72	16.55	6.47	12.38	22.28	20.72	9.62				
1926	0.45	3.48	0.84	0.72	10.88	18.39	12.28	18.67	10.53	15.09	35.58	10.08				
1927	5.81	2.63	1.62	8.61	29.29	14.01	17.87	17.42	14.53	12.67	16.94	10.83				
1928	3.74	2.83	3.75	3.78	11.84	12.64	9.61	17.70	10.93	24.57	21.37	9.93				
1929	0.00	1.00	1.49	3.07	10.25	15.57	11.79	25.22	8.60	12.80	15.19	3.93				
1930	5.33	2.42	0.23	7.99	14.85	9.09	8.84	9.03	10.72	5.64	18.61	15.80				
1931	1.28	0.61	8.46	0.49	17.32	14.69	12.02	11.76	11.69	19.55	30.55	5.46				
1932	1.26	3.06	3.01	1.67	10.30	10.66	11.05	10.92	7.27	23.57	43.57	7.06				
1933	4.88	1.22	1.61	1.97	12.49	13.48	12.62	9.70	12.40	15.02	40.07	19.58				
1934	0.00	0.00	1.35	6.07	14.68	11.24	7.72	12.24	15.84	23.46	19.52	20.46				
1935	2.23	5.81	0.00	4.45	16.89	11.94	31.70	11.07	12.23	12.38	57.42	19.99				

	5.22	0.00	2.68	5.38	12.44	5.54	9.16	16.26	11.95	17.28	8.83	5.96
1937	0.15	0.68	1.59	7.24	20.06	13.20	16.63	15.56	17.46	14.80	23.84	31.79
1938	0.56	0.74	0.55	4.48	15.34	18.10	11.95	21.37	9.39	14.59	6.82	20.84
1939	2.90	0.00	1.55	5.22	5.04	10.61	3.99	9.70	19.69	18.47	23.63	14.30
1940	0.99	1.51	0.00	1.37	10.08	12.95	10.87	13.55	12.76	18.19	15.92	6.18
1941	4.67	5.00	3.39	4.14	15.76	11.82	16.17	19.75	10.64	22.84	25.95	4.03
1942	1.23	1.97	4.05	8.47	8.99	11.49	8.37	8.72	13.73	30.20	13.79	27.73
1943	3.54	1.41	2.37	1.55	17.10	16.93	11.32	13.19	13.32	10.24	16.22	19.31
1944	3.68	1.47	0.71	5.82	16.48	3.84	5.42	18.69	6.05	25.28	13.46	20.27
1945	2.76	0.11	0.13	2.86	18.76	7.21	9.88	13.41	18.17	13.96	21.76	33.05
1946	4.09	0.00	2.44	2.52	16.53	9.50	14.44	10.40	13.69	12.55	17.91	26.94
1947	0.00	2.74	3.07	4.71	7.00	16.81	10.16	10.10	12.00	12.51	9.97	10.08
1948	2.93	0.00	2.09	1.18	15.40	8.80	14.57	15.92	11.59	9.43	12.98	1.34
1949	0.22	0.00	0.64	1.06	10.47	11.16	10.63	11.49	11.98	16.37	32.60	13.99
1950	0.13	2.33	1.92	5.11	6.21	15.13	17.90	16.46	11.84	11.79	28.61	32.25
1951	2.17	7.37	1.00	4.59	19.45	6.02	15.47	15.42	15.35	24.05	17.78	17.61
1952	1.48	0.29	0.01	4.49	21.25	16.45	16.09	15.45	15.64	14.91	8.39	20.07
1953	4.34	2.90	1.22	3.02	9.78	9.11	16.15	14.13	8.86	27.16	17.71	5.92
1954	0.36	1.18	0.62	4.05	13.42	14.78	21.90	16.58	18.58	13.13	22.72	11.09
1955	9.26	2.75	0.77	0.17	12.59	13.46	11.52	16.46	10.80	20.51	23.43	8.26
1956	7.93	1.80	7.49	4.03	27.47	7.83	14.78	13.50	13.93	19.89	18.10	5.01
1957	0.26	0.73	0.00	0.56	8.30	8.95	6.67	9.12	14.75	23.50	20.88	4.74
1958	6.41	3.35	2.23	4.86	7.09	10.40	12.30	8.17	11.81	11.32	10.54	6.00
1959	0.27	0.00	0.29	3.15	9.93	10.05	8.27	12.07	18.72	18.70	17.39	34.20
1960	3.66	0.36	7.25	13.75	14.96	11.50	13.00	11.81	7.19	17.70	16.05	28.97
1961	1.35	0.35	0.16	4.61	9.90	16.87	12.26	15.88	13.74	19.90	19.09	4.13
1962	2.48	0.46	0.95	5.68	27.66	9.24	10.56	9.26	11.22	14.78	24.77	25.67
1963	12.74	0.93	0.82	3.11	11.69	12.63	13.65	17.49	12.06	7.70	19.58	4.21
1964	1.17	0.49	2.69	6.51	15.37	19.22	12.10	12.45	9.54	23.50	25.00	17.01
1965	8.25	2.05	0.67	3.10	13.38	10.71	12.79	15.33	18.49	31.78	47.72	12.25
1966	3.95	0.60	1.70	6.71	19.37	11.56	18.41	13.23	16.77	12.11	36.56	38.66
1967	0.28	0.47	0.51	4.63	13.44	19.03	13.42	12.31	10.57	18.70	29.40	6.82
1968	0.06	3.97	2.75	1.14	10.59	9.69	8.74	16.48	12.19	20.76	21.80	1.13
1969	2.43	0.83	1.89	3.97	17.83	4.80	20.41	17.35	20.28	12.32	15.74	21.88
1970	17.75	4.14	1.79	13.69	13.63	10.15	15.77	11.40	11.56	25.14	29.70	24.59
1971	8.42	1.30	2.34	0.05	16.76	14.88	18.00	13.90	4.00	16.90	12.90	1.10
1972	11.90	2.40	1.10	7.10	9.60	10.40	6.90	8.30	10.40	26.30	12.20	6.90
1973	1.90	0.80	0.30	0.50	8.40	11.50	15.80	12.10	16.50	13.40	20.10	4.60
1974	0.30	0.80	0.34	0.00	11.70	15.90	11.80	6.50	10.90	34.70	21.70	8.80
1975	0.80	1.20	4.80	0.50	9.80	11.70	8.20	18.40	9.40	23.80	12.90	15.50
1976	0.90	0.60	0.10	9.20	10.70	8.70	4.60	8.00	13.50	19.00	13.90	0.50
1977	1.60	0.60	0.60	2.60	15.70	7.40	8.20	21.10	12.70	24.30	24.10	6.00
1978	2.20	2.50	1.60	14.90	8.00	10.10	14.80	15.30	6.40	16.80	13.10	3.80
1979	0.20	1.30	0.30	11.60	12.80	10.40	11.30	10.70	9.90	15.20	19.90	7.70
1980	7.40	3.80	0.20	1.00	11.50	11.60	7.60	16.60	5.30	11.30	12.80	7.80
1981	18.40	2.60	3.20	19.50	21.60	16.90	10.90	15.30	7.30	17.30	26.20	32.70
1982	8.10	0.10	0.00	5.00	12.90	10.00	9.30	6.50	19.10	25.30	6.90	1.70
1983	1.10	0.00	0.10	0.80	12.90	14.80	10.30	7.30	14.30	13.50	15.80	15.30
1984	4.40	2.00	0.30	1.90	9.90	12.20	7.50	14.10	8.70	21.80	27.20	1.20
1985	1.70	2.00	1.00	0.90	14.30	11.70	10.10	12.60	9.50	21.30	10.50	18.70
1986	2.80	0.40	2.10	3.90	10.90	17.20	10.20	11.30	15.10	28.60	7.10	6.10
1987	1.00	3.20	0.20	14.70	31.00	22.60	10.40	18.50	15.50	35.70	31.10	15.30
1988	0.10	3.90	1.50	1.50	27.60	9.80	16.90	12.90	16.30	24.80	11.70	9.40
1989	0.80	9.90	1.30	0.60	14.50	8.00	13.70	10.50	5.70	18.70	19.20	18.40
1990	0.80	0.20	2.20	2.60	16.40	11.80	11.80	12.50	18.90	23.00	11.40	5.00
1991	0.60	1.70	0.00	2.10	10.50	11.50	9.60	8.70	11.00	8.00	20.10	5.30
1992	1.60	0.10	0.50	7.40	23.90	10.40	9.30	14.60	20.60	9.60	7.70	5.50
1993	4.80	1.20	5.60	3.20	7.60	11.80	10.70	13.10	16.40	18.80	15.20	5.40
1994	4.20	0.60	3.60	1.40	8.30	18.80	10.10	12.10	11.80	13.10	16.00	1.30
1995	7.40	1.20	1.40	10.80	13.80	10.10	13.90	13.10	15.70	11.80	15.10	8.80
1996	16.20	1.50	3.00	4.20	9.70	20.90	7.90	11.50	9.80	6.20	27.30	6.80
1997	0.90	0.30	0.20	0.60	17.60	9.70	2.80	8.90	11.30	7.90	13.70	1.20
1998	0.60	0.20	0.50	8.20	14.60	15.50	12.00	14.20	11.40	11.80	12.80	16.70
1999	1.90	2.60	6.30	10.20	9.60	16.10	11.50	15.10	12.30	11.50	26.60	28.90
2000	6.30	0.30	0.30	2.90	14.90	22.10	11.40	12.10	12.00	32.40	8.10	22.40
SITE NO.	= 19	RAIN	ESCANDALOSA (ESC)									
1911	5.96	0.91	3.40	8.94	20.50	12.39	4.44	8.24	8.27	14.22	11.19	5.57
1912	6.04	3.24	1.19	3.26	11.98	11.06	8.17	12.38	10.99	19.18	24.76	12.97
1913	4.06	5.55	2.88	1.02	19.10	17.03	13.63	15.66	10.66	11.42	13.53	2.89
1914	3.09	3.69	3.47	6.20	10.79	16.01	7.31	12.44	20.01	16.47	23.27	11.26
1915	2.01	10.88	0.94	21.97	16.04	20.12	19.17	10.80	9.86	14.12	20.45	22.99
1916	5.45	2.82	1.55	19.33	13.16	11.76	17.89	11.91	10.21	18.68	13.62	8.83
1917	0.00	2.52	1.68	1.56	13.84	8.66	18.38	16.10	9.23	11.47	24.37	23.05
1918	5.02	3.22	1.59	14.24	15.53	12.64	9.63	12.26	12.42	19.86	15.61	3.84
1919	4.14	2.02	1.04	15.23	10.22	10.42	11.91	13.72	13.11	14.77	13.04	9.74
1920	2.98	1.13	2.14	4.90	13.46	7.65	19.50	15.62	8.27	16.63	11.80	3.84

1921	2.31	4.53	1.19	9.37	17.76	11.27	8.25	16.60	12.89	16.83	14.01	10.64
1922	12.48	1.64	3.49	5.58	18.81	9.16	5.20	9.00	9.94	10.99	18.79	12.41
1923	4.21	3.14	0.91	0.91	14.36	15.29	11.18	8.85	9.45	28.26	14.24	6.75
1924	3.59	6.02	0.02	14.03	14.26	14.00	17.36	18.64	15.96	11.07	14.92	8.08
1925	9.14	3.01	0.73	8.95	9.47	20.14	22.38	7.05	11.32	20.48	15.37	4.47
1926	2.20	2.51	4.03	3.88	12.70	21.28	23.95	13.23	13.83	16.60	29.66	16.11
1927	5.30	3.73	4.78	9.77	18.17	15.74	29.64	9.26	15.32	9.50	22.70	25.37
1928	3.19	3.31	9.08	2.14	13.57	22.31	11.36	15.77	11.16	13.08	23.19	13.31
1929	2.48	4.66	2.24	0.00	9.06	19.73	20.50	12.89	5.95	12.55	13.90	6.28
1930	8.61	1.90	2.42	11.09	15.10	9.34	9.13	8.58	11.55	8.48	18.24	11.52
1931	6.56	2.47	9.78	0.98	19.30	13.04	12.00	8.51	11.60	19.26	52.32	11.65
1932	4.78	1.31	2.02	2.95	12.86	15.79	4.98	8.94	8.50	23.09	41.51	19.73
1933	6.61	0.65	2.46	8.68	17.39	12.59	22.41	11.78	12.79	9.46	18.52	12.82
1934	4.03	1.14	3.04	2.89	12.60	12.44	11.70	9.83	13.99	14.44	22.38	9.63
1935	6.79	3.63	2.76	9.98	17.34	14.65	17.16	12.67	10.47	14.13	46.80	25.34
1936	5.04	1.89	1.68	2.42	19.40	8.29	12.99	10.66	13.60	11.52	20.24	4.96
1937	7.69	2.57	2.84	6.60	18.48	20.90	14.55	14.23	14.64	11.18	22.48	27.00
1938	5.00	4.32	2.57	6.65	21.99	27.40	10.34	16.22	11.36	5.81	11.17	15.63
1939	3.40	0.08	3.81	4.56	8.20	14.44	4.64	15.13	13.17	10.85	19.13	7.62
1940	3.83	3.81	1.19	8.14	16.03	9.30	13.46	14.16	8.23	12.87	13.02	2.66
1941	4.86	5.03	5.05	5.26	14.02	16.73	15.94	15.82	11.74	26.09	16.28	8.10
1942	5.02	0.79	4.89	5.32	15.37	22.68	10.65	12.47	12.42	22.27	10.07	11.84
1943	3.76	3.47	0.00	10.79	14.79	13.35	6.46	13.98	18.29	11.59	9.53	20.46
1944	3.85	3.55	0.73	10.40	19.87	9.40	13.55	13.84	8.85	15.15	18.74	27.78
1945	0.94	0.70	1.76	1.91	11.94	15.73	15.59	12.75	9.23	11.75	14.16	14.13
1946	1.43	0.50	0.56	4.79	13.38	8.21	17.61	6.33	13.24	10.66	11.15	16.62
1947	1.01	3.60	0.40	5.15	6.69	10.71	9.95	14.14	9.07	9.22	3.99	7.78
1948	4.68	1.19	1.26	4.32	9.40	12.96	12.99	13.18	9.60	9.80	13.87	6.13
1949	2.20	2.21	1.26	5.61	13.67	22.54	17.21	15.43	10.94	15.38	16.20	11.44
1950	3.44	6.85	1.73	8.87	17.50	11.84	26.85	7.97	9.84	9.48	21.35	22.51
1951	4.52	15.03	2.44	10.71	13.84	11.58	8.65	16.90	11.21	15.82	10.85	7.18
1952	5.29	1.54	0.17	5.72	15.68	9.77	21.92	18.11	11.56	20.33	7.26	22.97
1953	15.00	4.53	3.95	3.45	13.95	9.71	15.50	11.18	9.11	12.38	14.66	13.71
1954	3.24	3.88	2.30	8.50	16.57	16.36	20.92	14.16	9.88	11.88	23.21	19.40
1955	15.14	2.36	2.56	3.45	11.49	9.22	11.16	19.72	10.94	7.59	32.77	14.18
1956	15.17	3.98	8.76	4.56	20.95	10.65	18.75	11.19	10.09	8.76	22.28	10.16
1957	3.63	2.51	0.45	0.47	10.62	7.70	4.44	11.07	8.17	11.70	23.50	9.42
1958	6.34	4.22	5.92	1.75	11.30	4.51	20.26	10.42	14.78	9.93	14.03	11.32
1959	1.67	1.03	0.51	7.57	11.18	14.88	13.91	9.80	18.49	17.13	23.88	34.54
1960	5.98	2.95	6.59	20.12	19.59	11.90	11.02	10.98	7.49	8.84	18.39	23.26
1961	2.82	0.94	1.92	7.58	8.22	28.54	9.41	11.45	7.68	11.16	12.05	8.28
1962	4.89	1.18	2.56	3.18	21.19	9.06	15.25	11.94	8.34	12.86	11.28	9.53
1963	8.86	2.72	1.69	8.58	13.60	19.00	21.19	20.46	13.35	9.46	13.55	4.27
1964	1.93	0.81	1.56	7.99	14.18	20.48	9.87	15.96	9.60	12.97	14.52	3.39
1965	6.73	2.87	0.00	3.14	18.38	15.20	9.12	8.98	12.20	21.43	23.58	12.03
1966	5.34	2.11	0.98	18.73	17.80	6.96	12.68	11.70	12.68	13.76	28.02	15.71
1967	5.25	4.37	3.11	10.54	18.00	18.21	16.78	10.18	12.42	9.26	25.41	13.12
1968	0.93	4.34	8.80	2.86	16.64	9.66	13.08	11.25	10.22	16.91	16.40	4.88
1969	4.17	1.94	2.98	2.87	20.63	7.41	11.92	12.25	14.91	8.86	10.52	21.92
1970	15.22	3.22	4.30	14.50	20.30	7.50	10.30	13.00	9.10	6.40	27.00	33.00
1971	3.90	2.90	7.00	1.30	12.20	18.90	14.60	11.70	9.00	18.90	13.30	5.00
1972	17.70	3.50	1.50	14.30	15.20	13.50	7.30	9.90	11.70	13.90	9.70	9.40
1973	5.10	3.20	0.40	1.00	15.90	15.50	17.70	13.30	12.10	12.40	26.20	11.40
1974	3.40	2.20	2.10	4.00	13.00	9.70	15.20	9.70	8.80	13.10	21.10	4.30
1975	3.60	0.80	2.80	2.70	17.60	11.80	17.80	12.10	10.00	18.90	16.60	21.60
1976	2.20	3.20	3.50	10.10	6.70	9.40	5.60	10.30	17.70	16.20	12.50	3.00
1977	5.10	1.40	1.20	2.80	7.00	10.70	12.40	16.60	13.60	13.50	11.30	10.60
1978	2.90	3.70	3.30	15.50	14.10	13.10	11.40	12.90	11.00	9.90	12.80	6.10
1979	1.00	3.10	2.40	11.80	11.50	10.60	9.80	5.00	5.30	12.00	15.80	19.30
1980	1.50	4.90	1.20	4.30	18.40	17.50	5.30	7.60	10.10	14.00	13.60	11.80
1981	6.80	4.10	5.10	37.80	11.30	12.60	18.50	11.90	6.50	9.80	17.20	19.20
1982	5.10	2.50	1.00	10.00	6.90	11.40	16.50	14.20	8.00	12.30	5.70	5.90
1983	2.40	0.10	0.70	9.50	15.10	8.60	8.10	12.90	14.40	12.40	11.80	33.20
1984	6.20	3.10	1.10	2.80	10.00	19.10	15.30	21.70	10.20	13.30	17.80	11.80
1985	4.20	2.50	1.90	2.50	14.50	17.00	9.30	8.50	16.40	10.20	12.70	19.40
1986	4.90	1.60	2.10	16.40	15.40	14.50	5.40	11.30	12.20	11.80	13.40	3.60
1987	3.20	3.00	1.10	24.60	17.30	12.60	14.70	15.70	13.60	22.40	20.60	8.20
1988	1.70	6.50	2.50	2.40	14.30	6.70	26.60	16.10	10.10	24.80	11.70	10.20
1989	4.60	10.20	1.40	2.10	16.40	13.80	20.70	18.40	10.60	16.70	18.30	11.40
1990	8.10	2.50	5.70	3.60	19.30	8.80	9.70	15.50	12.20	20.90	11.70	9.20
1991	3.70	2.80	3.30	6.70	23.80	10.10	9.70	8.40	18.30	8.10	30.30	9.60
1992	2.80	1.60	1.70	10.60	28.10	14.40	14.20	20.40	13.70	10.20	12.40	9.40
1993	6.60	1.10	10.80	17.00	10.40	21.00	10.60	8.20	18.00	20.40	15.20	8.70
1994	2.30	2.60	6.20	2.60	19.40	23.60	10.10	17.80	9.90	12.70	21.80	5.20
1995	6.50	0.70	1.10	5.50	11.80	21.40	19.30	6.90	9.40	10.60	20.70	21.90
1996	22.00	6.50	4.20	9.90	22.90	12.30	10.90	13.70	8.40	10.60	29.00	16.30

1997	2.20	5.50	1.60	1.30	19.30	10.40	7.90	6.60	7.00	11.20	4.00	1.60
1998	2.20	0.50	1.50	14.40	11.00	13.10	15.40	13.80	16.30	11.40	9.70	18.90
1999	3.70	4.60	6.20	10.40	15.50	12.20	19.40	10.90	10.00	13.20	17.30	41.40
2000	9.70	3.00	3.70	6.00	14.00	20.40	10.10	14.80	5.60	17.90	12.50	31.00
SITE NO.	= 20	RAIN	LOS CANONES (CAN)									
1911	2.36	1.97	3.24	5.05	21.01	16.52	5.22	5.96	14.40	21.52	7.37	0.00
1912	0.00	3.46	1.92	3.12	11.66	9.60	9.63	10.36	17.92	17.35	19.47	13.41
1913	3.18	1.27	0.00	3.67	14.58	9.35	8.49	16.63	16.02	6.62	7.59	5.33
1914	0.00	0.00	0.60	3.19	12.65	11.67	4.10	13.98	23.40	13.30	26.31	3.83
1915	2.33	6.58	3.52	11.39	9.95	15.20	15.33	7.89	13.00	12.55	7.73	2.81
1916	6.14	3.30	1.86	6.03	15.33	9.01	15.52	9.55	10.11	29.69	21.14	5.14
1917	6.69	2.92	0.00	2.21	11.97	12.92	10.85	12.47	19.63	16.14	35.99	17.35
1918	5.38	1.04	1.49	4.83	15.53	6.38	6.19	10.66	16.06	15.05	6.17	3.95
1919	4.75	1.80	1.58	9.33	9.68	8.62	9.57	10.74	15.35	12.21	16.11	10.14
1920	2.47	2.08	1.33	0.97	7.45	10.07	17.07	8.54	10.56	18.37	4.71	1.18
1921	2.46	0.53	1.96	5.85	10.08	9.82	12.37	12.69	19.34	11.82	8.18	14.59
1922	10.96	1.69	0.00	0.50	13.32	10.58	6.12	10.80	13.57	14.00	9.47	12.69
1923	1.57	1.15	0.24	2.44	7.74	11.88	4.98	8.27	13.59	27.97	12.94	3.72
1924	0.71	2.71	1.08	5.89	10.54	17.63	21.80	10.76	16.16	12.91	20.69	5.49
1925	6.66	1.46	0.19	2.53	7.89	11.83	16.95	5.44	21.37	15.72	18.11	2.15
1926	0.77	1.63	0.00	0.00	10.11	16.38	14.95	15.86	26.38	17.79	29.11	14.76
1927	6.23	1.59	0.85	8.63	15.03	13.54	12.67	5.41	11.10	9.43	13.77	12.81
1928	8.46	2.20	7.41	6.10	12.27	21.39	11.73	22.74	13.13	17.85	10.79	6.07
1929	0.00	2.37	2.18	1.82	11.95	7.82	8.36	9.79	9.06	11.46	13.50	8.53
1930	3.74	0.98	0.00	3.29	10.29	8.13	8.28	10.69	13.20	9.11	7.99	2.57
1931	5.55	1.47	2.63	2.20	11.29	7.57	15.93	5.52	9.12	14.69	16.66	3.24
1932	9.45	2.80	0.49	7.09	13.95	16.27	7.35	6.01	7.10	17.33	23.53	11.10
1933	4.90	1.01	0.54	0.87	8.64	4.67	9.18	6.09	13.19	11.61	28.31	9.36
1934	0.65	0.58	1.27	2.65	11.53	8.10	7.38	10.87	13.52	16.15	14.00	11.85
1935	8.70	4.04	1.03	1.85	14.57	17.27	23.91	12.13	15.23	16.13	22.30	10.37
1936	0.00	1.18	0.88	4.77	18.22	7.83	9.57	12.31	17.40	12.90	15.87	4.91
1937	5.68	1.44	1.96	6.37	13.77	5.10	10.64	8.12	23.37	12.14	12.63	20.08
1938	2.20	1.43	0.35	4.23	15.97	16.14	11.46	15.32	17.53	15.84	22.56	9.25
1939	0.82	0.35	1.05	1.00	8.55	10.39	4.68	8.94	16.44	9.31	18.86	11.93
1940	0.97	2.33	1.66	2.21	10.16	5.70	3.65	6.88	12.76	11.33	9.09	0.00
1941	7.16	4.09	0.17	1.71	9.65	12.42	9.82	16.96	18.67	17.11	10.68	6.22
1942	4.53	1.38	2.91	5.18	12.82	13.10	12.24	12.17	20.84	18.07	7.64	14.60
1943	7.22	2.57	3.65	7.72	16.48	18.81	16.72	14.10	19.22	14.42	13.19	20.60
1944	4.89	3.65	2.22	11.44	16.91	8.78	8.98	17.05	11.67	13.03	18.30	14.84
1945	3.80	0.42	2.05	3.50	12.25	8.76	7.77	13.75	9.78	11.00	17.81	11.99
1946	4.52	1.52	0.37	1.38	10.33	8.68	12.76	10.79	21.27	10.36	9.24	4.88
1947	0.12	2.41	1.83	0.97	6.46	12.26	8.15	10.78	20.47	18.64	11.41	6.28
1948	2.52	0.37	0.34	0.70	14.54	5.83	16.71	18.39	11.13	10.24	20.98	5.20
1949	0.52	0.37	0.49	4.56	14.00	15.34	7.46	18.00	20.68	13.19	18.77	12.33
1950	0.97	2.16	0.60	4.50	12.20	15.25	20.49	9.66	17.00	12.52	28.43	16.17
1951	3.18	5.43	0.79	6.13	9.48	7.23	9.57	5.82	21.00	13.65	11.39	7.91
1952	3.44	1.44	0.42	3.77	13.63	7.82	6.37	8.08	13.21	14.74	8.85	13.92
1953	11.92	0.37	1.51	4.19	16.07	6.89	7.04	10.92	18.94	15.12	23.49	7.50
1954	2.20	1.72	0.83	6.37	21.55	23.82	18.85	15.65	25.44	13.70	19.24	6.57
1955	12.46	1.99	2.40	1.64	15.32	17.51	11.68	16.15	16.70	13.84	20.01	10.80
1956	12.45	2.53	4.05	5.28	16.98	10.17	17.97	8.64	12.46	17.95	11.47	4.46
1957	1.65	0.40	0.64	0.27	12.71	8.62	12.06	13.32	9.82	16.19	8.36	10.32
1958	5.99	4.43	5.10	2.50	13.61	14.43	12.30	9.17	11.16	14.05	5.77	7.18
1959	1.02	0.09	0.31	2.91	7.24	14.26	9.67	8.24	12.89	10.79	8.44	23.08
1960	12.00	0.81	6.16	12.79	15.68	9.58	18.07	11.26	11.02	15.50	21.28	18.85
1961	0.36	1.10	1.11	5.71	12.75	15.31	5.53	15.84	24.50	13.41	9.41	11.63
1962	5.61	3.37	0.97	1.24	9.41	8.13	7.83	10.10	10.74	7.04	10.81	17.92
1963	8.50	2.08	0.11	8.37	12.83	13.03	12.65	20.29	17.74	8.95	11.14	6.61
1964	2.31	1.55	0.99	4.63	14.87	15.98	11.47	12.30	13.01	17.93	21.92	5.23
1965	8.43	0.98	1.77	2.79	6.59	8.71	7.63	12.46	12.04	28.26	26.15	2.95
1966	3.41	2.89	1.94	4.47	13.80	8.02	18.67	21.27	15.29	10.19	20.39	12.53
1967	4.59	2.49	1.80	6.35	11.23	14.03	12.77	11.02	7.41	10.74	9.84	0.66
1968	0.00	5.04	3.22	3.27	11.59	13.24	10.12	12.50	6.66	16.44	13.57	2.78
1969	3.05	0.59	0.52	5.07	8.22	8.44	11.11	17.82	15.37	15.78	10.68	5.87
1970	7.00	3.67	2.65	5.52	10.50	8.91	12.60	11.00	10.46	10.59	21.87	20.70
1971	7.67	3.99	2.72	0.00	15.42	13.21	8.74	12.98	9.68	12.91	15.70	2.23
1972	4.68	1.94	0.98	8.68	9.35	10.62	6.09	9.20	14.17	10.24	5.10	1.75
1973	5.95	0.69	0.40	1.02	12.05	10.87	4.84	7.18	13.49	21.06	13.88	2.80
1974	0.00	2.35	1.24	1.80	7.11	14.42	10.46	5.90	13.79	20.78	14.91	3.85
1975	2.09	1.43	1.50	2.19	12.83	12.08	11.98	11.72	15.90	22.02	10.97	13.94
1976	2.12	0.50	0.00	6.01	13.02	8.05	0.20	9.14	19.74	13.46	5.80	6.74
1977	3.89	0.10	0.00	0.90	11.38	6.32	5.13	7.26	7.89	19.82	12.61	2.59
1978	3.04	2.22	3.30	11.80	11.80	5.70	14.50	15.40	13.60	11.10	10.90	1.40
1979	0.80	1.60	0.20	10.80	9.10	9.40	12.80	10.60	9.90	6.50	8.10	7.60
1980	6.50	2.50	0.40	2.00	12.50	13.80	12.40	12.20	4.70	14.10	10.90	8.80
1981	6.30	2.70	6.40	12.30	12.70	14.10	11.90	9.90	7.80	21.00	14.20	9.80

1982	6.30	1.20	0.80	3.30	7.50	10.20	5.70	7.70	8.10	16.10	5.80	1.40			
1983	0.80	0.30	0.20	1.80	9.10	7.10	9.80	8.80	13.80	9.10	13.30	10.30			
1984	3.20	5.40	0.80	2.20	9.10	11.00	5.70	16.60	15.80	17.80	8.70	2.80			
1985	5.00	0.80	1.00	0.60	6.80	10.50	8.00	10.20	11.80	6.70	7.60	4.90			
1986	1.10	0.30	0.40	7.70	9.10	3.40	6.10	1.40	10.90	8.40	6.80	0.90			
1987	0.50	0.50	0.20	4.00	10.10	3.20	5.00	7.40	26.40	26.30	13.50	13.60			
1988	0.40	1.20	0.10	1.70	12.20	10.90	8.90	15.20	14.50	12.20	10.40	7.00			
1989	0.60	2.60	2.00	1.40	6.90	8.00	12.20	14.00	13.00	14.80	10.20	8.20			
1990	5.10	0.30	2.30	3.10	12.50	7.80	7.50	8.20	16.60	14.60	10.40	9.00			
1991	0.80	1.20	3.40	2.20	13.50	6.60	8.20	4.80	11.70	8.80	11.10	5.80			
1992	1.90	0.90	0.40	6.10	16.10	9.60	6.40	12.00	9.10	9.60	14.10	5.50			
1993	3.00	0.80	3.50	7.90	15.10	13.50	4.50	5.10	15.80	14.90	14.90	6.10			
1994	0.60	0.10	0.20	0.00	5.90	13.20	2.70	8.10	7.10	14.80	12.30	1.60			
1995	4.30	0.60	0.90	5.40	12.40	15.50	8.70	14.70	11.40	10.60	11.40	10.50			
1996	13.80	4.10	4.20	2.10	13.70	10.60	8.10	8.90	15.30	19.40	13.40	6.40			
1997	1.40	1.50	0.00	1.00	8.00	11.60	6.80	5.50	9.90	6.00	5.10	0.70			
1998	0.60	2.00	2.30	7.60	8.20	13.50	11.40	5.90	6.00	8.40	12.00	14.20			
1999	4.50	2.30	3.50	8.40	8.30	9.70	7.00	19.90	14.60	12.90	18.20	20.90			
2000	9.30	1.40	0.50	4.30	11.00	14.70	8.60	12.10	9.10	13.30	8.10	11.30			
SITE NO. = 21	RAIN	HODGES HILL (HHI)													
1911	0.00	0.60	0.32	7.82	11.88	6.09	6.57	6.11	6.85	13.77	5.54	0.00			
1912	0.63	0.85	0.00	1.73	7.07	12.80	12.04	9.76	12.21	15.05	10.35	2.00			
1913	1.22	0.62	0.14	2.11	10.21	9.67	7.03	12.46	11.66	16.86	10.54	3.71			
1914	0.87	0.00	0.41	3.06	12.20	15.31	6.30	8.29	13.28	11.31	14.96	3.31			
1915	1.96	1.99	0.00	8.49	11.57	8.42	8.67	10.55	8.51	20.86	9.48	3.91			
1916	0.28	1.58	1.30	11.54	12.45	11.49	9.74	11.53	13.68	16.64	10.05	3.64			
1917	1.43	0.59	0.34	5.48	9.09	7.74	13.20	13.46	14.28	8.96	16.70	3.17			
1918	3.90	0.42	1.01	8.84	9.84	8.95	6.81	7.66	7.72	10.86	4.25	0.67			
1919	0.78	0.25	0.24	7.85	8.17	5.17	8.53	8.94	6.73	19.00	8.29	1.75			
1920	0.00	0.00	0.20	4.57	8.03	10.50	10.49	7.12	13.23	17.85	10.38	1.76			
1921	0.00	3.25	0.00	2.63	9.00	16.46	12.80	11.72	13.63	10.65	8.30	1.23			
1922	6.14	1.06	0.78	1.34	15.70	12.07	5.17	14.25	4.83	12.76	9.86	5.54			
1923	0.00	0.00	0.00	10.48	10.19	6.21	9.66	8.65	23.69	10.29	0.00				
1924	0.00	0.96	1.30	4.07	13.82	11.81	10.46	16.35	16.25	13.16	14.89	11.33			
1925	5.24	0.00	1.12	1.31	7.99	12.97	10.02	14.28	8.36	14.45	8.55	0.29			
1926	0.00	0.02	0.03	0.88	5.72	17.80	10.81	12.11	14.64	15.59	13.04	7.81			
1927	0.66	0.67	0.96	5.69	11.84	16.66	8.10	6.27	10.66	9.64	7.11	4.60			
1928	0.42	0.44	0.11	5.93	12.29	6.62	9.94	13.08	12.96	13.26	15.61	3.80			
1929	1.11	0.26	0.00	0.63	10.09	5.90	6.52	12.94	8.25	14.33	9.79	5.22			
1930	0.14	0.35	0.72	2.66	9.03	10.48	11.71	14.90	12.53	12.23	8.85	2.70			
1931	0.18	0.25	0.64	1.13	10.29	11.49	10.20	9.36	13.61	14.81	17.34	2.82			
1932	0.00	0.47	1.19	12.68	8.37	14.90	7.76	12.96	9.20	21.99	12.38	2.72			
1933	2.64	0.58	1.03	0.00	8.94	13.28	9.10	10.00	10.79	6.94	11.49	10.03			
1934	2.34	0.00	0.55	3.03	13.51	6.16	6.91	12.98	14.56	14.50	13.01	7.87			
1935	0.00	2.06	1.16	3.29	12.42	8.22	13.11	9.93	11.25	12.27	22.34	0.96			
1936	0.35	0.58	1.60	6.91	7.28	11.51	12.14	11.85	8.43	20.25	6.78	1.14			
1937	3.32	0.00	0.00	4.47	8.95	8.69	7.54	14.56	13.06	14.86	13.24	19.25			
1938	2.95	0.00	1.02	2.68	16.50	17.00	11.69	16.69	10.76	19.64	15.13	4.80			
1939	0.36	0.19	0.00	3.97	5.27	12.48	7.99	7.56	9.63	18.62	16.18	5.08			
1940	1.38	0.42	0.38	1.54	5.61	8.75	4.71	7.74	9.01	12.39	13.02	3.02			
1941	1.68	1.28	0.97	2.96	8.14	8.47	12.69	9.52	9.75	11.32	5.98	4.65			
1942	0.00	0.29	1.97	2.13	14.50	11.42	8.62	4.46	11.80	16.69	10.61	12.58			
1943	2.48	0.00	1.70	10.38	14.74	7.90	7.60	8.75	11.50	9.12	12.81	11.71			
1944	1.97	0.00	0.00	3.52	7.57	12.44	8.05	22.66	9.12	16.20	8.54	3.75			
1945	0.60	0.00	0.00	4.73	9.90	7.94	9.84	10.10	12.96	15.45	11.16	9.96			
1946	0.81	0.00	1.55	0.94	7.96	7.61	9.63	8.04	5.16	13.06	8.36	5.93			
1947	0.55	0.12	0.00	4.23	4.79	13.00	8.09	13.54	11.80	18.15	9.24	2.77			
1948	1.74	0.00	0.23	0.69	9.68	9.35	9.07	8.96	10.63	10.86	15.54	0.84			
1949	1.08	0.73	0.03	1.71	10.64	16.84	9.17	9.42	5.04	16.82	10.55	2.35			
1950	0.72	0.00	1.05	2.40	12.89	20.21	13.76	7.80	5.39	10.88	16.93	6.99			
1951	2.71	0.79	0.06	3.01	14.02	5.61	9.93	8.28	4.52	9.77	9.34	8.55			
1952	0.00	0.32	0.32	9.61	7.32	12.48	4.57	3.09	11.57	19.00	6.25	5.49			
1953	3.04	0.09	0.00	1.72	9.54	5.71	8.96	11.22	4.67	14.49	16.04	0.02			
1954	0.90	0.92	0.34	1.97	11.59	16.99	10.76	15.41	16.78	13.42	13.82	3.62			
1955	5.39	1.11	0.00	2.69	7.55	16.85	7.57	11.06	7.63	10.39	16.62	5.02			
1956	4.20	0.86	0.56	0.59	16.86	5.07	10.90	9.96	9.42	11.98	10.62	2.16			
1957	0.90	0.00	0.56	1.68	9.64	9.91	9.51	8.11	15.97	15.98	6.07	0.00			
1958	2.98	0.39	1.72	1.57	12.31	5.58	7.28	11.94	11.28	19.66	13.23	1.87			
1959	0.00	0.00	0.42	0.10	8.53	11.58	5.55	12.13	6.41	14.76	7.10	6.67			
1960	2.32	0.26	1.47	2.03	8.22	13.43	10.58	10.41	11.59	16.48	11.03	7.65			
1961	0.91	0.00	0.76	1.78	7.48	16.85	9.50	10.07	9.80	12.67	8.92	6.34			
1962	0.30	0.09	0.13	3.75	5.93	10.60	6.35	10.94	15.38	15.12	11.59	7.22			
1963	3.33	2.00	0.37	4.42	5.41	10.97	9.09	14.92	12.25	13.96	12.82	0.86			
1964	0.00	0.00	0.06	9.53	9.96	12.38	11.18	14.00	11.40	13.92	12.08	2.71			
1965	0.17	0.10	0.00	1.60	20.20	6.92	9.97	12.17	11.23	12.99	14.20	3.53			
1966	3.05	0.42	0.52	6.77	12.70	13.20	10.80	12.02	13.19	11.71	13.05	9.28			

YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1967	0.64	0.52	0.75	3.16	7.53	13.84	11.46	11.54	14.29	13.81	8.71	3.80		
1968	1.68	2.89	0.41	0.31	13.72	8.27	8.74	11.55	8.82	13.12	8.70	0.32		
1969	0.35	0.15	0.28	0.70	5.50	5.32	6.93	9.95	11.47	17.27	11.79	3.29		
1970	5.42	0.89	2.23	4.90	13.54	7.23	9.60	16.87	8.90	14.07	14.11	11.02		
1971	7.65	2.92	1.16	3.63	16.60	5.40	10.10	9.00	14.20	14.50	11.70	0.10		
1972	4.60	0.40	0.40	11.00	7.20	11.00	6.40	6.90	17.60	14.50	7.30	3.70		
1973	0.20	0.10	0.10	0.90	8.70	10.70	10.70	2.60	8.10	13.60	14.40	3.60		
1974	0.00	0.00	0.00	1.30	13.70	13.40	9.30	10.20	13.20	18.00	6.20	2.70		
1975	0.00	0.50	0.40	0.60	9.80	11.20	11.40	8.80	10.00	19.60	14.00	5.70		
1976	0.30	0.10	0.00	1.90	6.20	7.60	4.70	7.20	8.00	13.60	6.80	1.50		
1977	0.30	0.40	0.20	0.40	9.90	7.80	8.60	9.40	5.40	14.70	9.60	3.20		
1978	1.10	0.20	0.60	5.50	7.20	9.40	9.10	7.70	9.30	15.50	15.60	3.40		
1979	0.10	0.00	0.10	9.00	11.00	9.90	9.60	11.10	5.00	21.30	6.70	3.10		
1980	2.20	0.60	0.00	0.60	7.10	13.10	8.60	12.10	8.70	9.10	12.00	3.40		
1981	0.70	0.00	1.60	11.70	10.70	16.60	9.20	7.00	9.70	6.50	14.00	5.70		
1982	2.50	0.10	0.00	1.90	11.60	4.60	8.70	8.00	12.90	13.90	5.10	0.10		
1983	0.10	0.00	0.20	1.70	9.70	9.50	7.80	5.90	12.40	11.60	11.20	7.50		
1984	1.40	2.20	0.20	1.60	5.20	10.20	10.10	14.00	12.50	17.80	6.90	0.40		
1985	0.40	0.20	0.50	1.20	8.80	17.40	10.60	9.20	12.00	8.10	7.70	3.30		
1986	0.10	0.00	3.50	6.60	2.00	13.30	6.40	9.40	11.00	23.80	8.60	0.60		
1987	0.00	0.20	0.40	6.30	6.70	13.40	9.40	14.60	16.10	10.70	11.60	5.90		
1988	0.10	0.10	0.20	0.90	11.60	14.50	7.40	12.90	10.60	20.70	11.80	6.00		
1989	0.60	0.50	0.20	0.00	6.00	9.50	8.40	12.00	5.20	10.20	13.50	4.30		
1990	1.10	0.10	0.30	3.20	10.70	4.80	16.10	14.20	10.40	15.80	5.80	6.20		
1991	0.70	0.00	1.00	4.50	14.70	11.60	9.00	14.20	18.00	16.50	8.80	3.40		
1992	0.10	0.10	0.00	3.50	6.40	20.40	6.80	8.60	9.80	14.90	7.60	3.00		
1993	2.70	0.10	0.50	3.90	7.40	18.60	10.30	11.10	14.80	13.90	11.30	5.00		
1994	0.60	0.00	2.50	2.10	11.80	9.80	5.00	10.30	9.10	15.80	15.20	0.50		
1995	0.20	0.30	0.40	6.10	10.40	15.00	11.10	8.70	5.60	10.00	16.30	1.00		
1996	5.20	0.80	1.10	1.70	13.30	6.60	10.20	8.20	7.60	11.80	10.00	4.20		
1997	1.00	0.10	0.00	1.00	7.00	5.00	10.30	7.60	9.60	11.10	6.70	0.10		
1998	0.00	0.00	0.10	1.40	12.90	11.40	11.80	16.50	8.30	9.40	13.60	12.10		
1999	1.00	2.60	0.50	4.00	6.90	14.50	5.50	9.10	15.90	11.50	10.30	9.80		
2000	3.60	0.20	0.10	4.50	10.20	11.20	6.10	10.10	11.30	12.30	3.90	6.50		
SITE NO.= 22	RAIN	HUMEDAD	(HUM)											
1911	2.83	2.09	1.45	6.48	13.80	12.12	7.48	7.31	9.57	11.73	11.18	0.00		
1912	2.02	2.04	1.31	4.30	11.63	8.14	9.54	5.99	15.15	16.36	22.03	6.56		
1913	4.07	1.89	1.21	0.51	15.78	12.17	7.32	15.70	11.94	11.73	15.90	4.48		
1914	2.67	0.41	1.48	4.00	13.46	9.19	4.85	7.53	12.07	10.52	20.63	10.07		
1915	3.48	6.77	0.93	13.06	8.99	8.69	13.39	11.22	10.73	13.50	8.50	4.36		
1916	3.24	2.32	3.89	8.49	11.57	8.98	11.69	8.09	10.10	16.98	14.68	11.62		
1917	2.01	1.96	0.60	5.16	10.72	11.07	10.07	15.36	12.21	9.41	33.57	8.14		
1918	5.54	0.51	2.54	8.96	11.62	6.72	5.83	10.23	7.59	13.81	11.41	0.32		
1919	4.97	1.64	0.88	8.54	9.54	13.59	9.20	7.22	11.27	11.83	7.04	12.62		
1920	1.83	1.16	1.53	0.85	8.86	5.71	10.81	6.15	10.87	18.90	10.88	2.28		
1921	3.38	2.37	2.39	5.90	7.57	8.68	11.72	17.13	11.45	8.58	11.95	11.53		
1922	6.00	1.19	1.76	3.89	14.45	9.04	6.35	7.25	11.71	16.19	10.23	8.79		
1923	0.41	2.65	1.35	2.47	11.18	11.43	5.59	9.36	12.81	26.26	11.31	7.37		
1924	2.36	1.92	2.59	6.07	7.34	14.98	15.97	6.77	13.78	12.13	20.69	5.11		
1925	2.57	0.73	0.63	3.37	4.96	10.99	14.24	6.34	12.74	14.77	15.59	5.34		
1926	0.42	1.25	0.18	0.16	5.91	8.17	17.29	13.84	8.85	10.50	15.31	7.72		
1927	3.90	1.87	1.50	5.80	14.73	11.54	18.36	13.61	11.68	16.21	19.51	11.75		
1928	4.79	1.44	4.68	2.32	10.40	11.18	8.99	12.47	12.28	11.39	16.97	4.61		
1929	0.93	2.02	2.11	1.64	9.72	9.92	5.88	10.52	8.85	14.81	8.17	5.85		
1930	1.64	0.12	1.20	5.88	8.57	6.98	4.97	7.70	8.38	12.77	8.32	7.85		
1931	2.41	1.30	2.76	6.02	10.93	9.19	14.65	7.84	9.00	13.89	16.01	2.45		
1932	4.03	1.80	0.98	6.87	13.50	10.71	9.78	7.93	5.74	18.86	17.03	5.56		
1933	3.52	0.34	1.71	0.00	7.36	11.43	7.49	2.53	11.41	7.93	18.05	9.16		
1934	2.91	1.59	3.14	6.80	10.90	12.41	4.30	8.44	12.89	10.43	9.51	11.60		
1935	4.20	2.74	1.92	3.67	12.37	14.36	16.14	8.66	14.81	10.80	22.07	14.66		
1936	1.19	1.10	1.20	7.21	11.14	7.14	6.23	12.73	12.19	14.85	14.33	2.60		
1937	5.02	0.74	1.01	2.60	14.08	10.82	6.43	6.16	13.15	12.66	15.10	24.13		
1938	2.90	0.48	0.25	4.97	17.34	14.12	7.72	12.50	11.88	16.32	14.76	24.91		
1939	1.72	1.35	1.30	0.97	6.81	13.74	5.02	10.03	10.17	12.76	25.22	21.18		
1940	3.97	1.30	1.79	0.00	6.28	6.09	3.82	8.15	9.10	10.98	7.89	2.03		
1941	3.72	3.25	2.89	1.76	7.28	12.26	7.61	13.76	10.67	14.24	11.56	4.00		
1942	4.73	1.94	4.94	6.51	11.11	8.58	9.43	10.74	15.27	20.08	10.71	22.73		
1943	1.86	3.06	3.30	5.96	19.46	18.54	9.24	8.57	15.08	9.72	21.87	15.58		
1944	2.09	2.71	1.65	9.64	17.67	15.21	6.82	12.94	7.99	10.58	15.35	9.05		
1945	1.92	0.38	0.00	4.24	12.80	7.68	8.15	8.68	11.70	12.30	15.90	13.93		
1946	1.89	1.18	3.15	1.86	7.71	6.51	7.44	10.34	11.25	14.43	12.30	8.62		
1947	1.77	2.73	1.62	4.58	6.20	10.85	9.74	6.27	14.98	21.60	10.40	13.36		
1948	2.82	0.66	1.75	3.38	10.81	7.70	10.33	9.07	13.39	8.19	20.29	7.57		
1949	1.36	0.81	1.18	3.52	9.76	11.93	13.35	8.49	10.41	17.98	22.42	12.21		
1950	3.34	2.34	1.40	5.67	12.70	17.45	8.67	9.71	11.54	13.00	25.49	23.43		
1951	3.48	4.11	2.18	9.51	9.74	4.37	8.96	5.45	8.61	12.19	9.87	10.75		

1937	2.43	0.70	0.47	5.91	14.26	8.82	7.93	11.86	14.16	11.93	14.27	47.71				
1938	1.74	0.37	1.47	4.20	9.33	16.25	9.10	13.77	10.98	8.96	9.71	16.88				
1939	2.93	0.00	2.82	0.00	6.04	11.31	3.43	9.22	16.72	11.27	27.12	11.50				
1940	7.40	0.61	0.94	1.24	7.05	6.84	9.57	13.30	6.88	8.36	6.34	7.79				
1941	5.09	2.67	2.88	0.68	7.81	10.64	8.09	11.58	8.26	16.77	14.56	6.88				
1942	0.81	1.67	4.31	4.85	10.70	6.26	6.75	13.80	17.32	18.55	3.69	20.13				
1943	3.46	2.29	2.22	8.29	14.00	12.65	7.47	12.10	17.99	12.72	17.47	11.95				
1944	3.84	1.45	0.00	10.01	16.37	5.61	8.75	15.45	5.68	14.68	16.11	16.08				
1945	0.66	0.00	0.87	5.47	13.28	8.25	8.97	15.32	12.72	13.11	22.14	15.80				
1946	3.16	0.00	1.37	2.26	9.07	4.58	10.58	7.88	11.83	12.41	11.58	21.92				
1947	0.74	2.32	1.61	5.83	5.16	9.09	5.48	8.96	10.96	13.78	9.02	5.86				
1948	2.00	0.32	0.62	4.33	11.45	7.58	10.92	12.36	5.93	13.46	10.80	2.84				
1949	4.32	1.21	0.99	3.24	12.13	13.36	9.40	13.01	7.64	13.53	20.56	11.65				
1950	2.52	1.90	0.80	3.67	8.10	9.78	14.52	12.44	5.78	10.84	20.35	30.80				
1951	4.69	4.14	0.47	13.76	8.98	6.66	6.86	5.28	7.92	14.84	18.84	18.01				
1952	6.19	0.33	0.00	4.70	9.55	9.48	8.17	5.47	9.27	15.18	5.86	16.48				
1953	4.85	0.51	0.96	1.66	8.77	5.15	12.10	12.31	9.93	16.35	9.78	3.36				
1954	1.06	0.92	0.45	8.21	6.26	6.84	12.29	16.33	10.81	13.48	16.57	11.30				
1955	13.50	1.74	1.08	3.30	9.95	6.75	4.07	9.95	12.55	9.24	19.97	9.24				
1956	8.76	2.83	3.79	8.25	15.72	8.37	12.72	10.13	9.59	21.13	12.90	7.90				
1957	1.27	1.54	0.45	1.54	6.13	7.07	5.50	11.92	9.90	9.33	13.21	8.65				
1958	5.21	4.12	2.37	3.48	6.76	7.00	15.11	8.55	10.92	13.36	10.20	5.25				
1959	0.00	0.00	0.70	3.74	8.45	7.36	6.14	7.03	14.42	6.18	12.53	27.53				
1960	2.98	1.69	4.88	8.86	11.07	9.47	6.25	7.53	4.58	11.22	8.49	25.85				
1961	1.18	0.20	1.42	8.52	3.57	7.65	7.63	13.26	6.64	18.56	12.61	4.61				
1962	3.17	0.00	0.07	4.71	14.90	10.87	11.84	5.46	7.93	8.97	15.47	16.43				
1963	9.87	2.10	0.00	4.76	13.16	7.44	9.30	14.03	6.61	8.97	8.97	8.97				
1964	2.52	0.70	0.49	5.93	13.58	13.21	9.27	7.71	10.61	9.33	15.10	1.01				
1965	6.87	1.53	1.04	1.84	11.33	3.32	3.18	11.52	9.81	16.07	22.15	6.74				
1966	2.78	1.20	1.87	5.37	9.20	8.80	8.95	10.85	10.36	7.36	27.76	18.49				
1967	4.90	1.02	1.98	3.68	9.25	13.92	9.37	9.15	9.49	11.99	27.43	4.76				
1968	0.14	2.80	1.89	0.56	12.32	5.57	3.40	13.10	5.58	17.12	12.80	1.86				
1969	2.07	1.34	1.04	2.64	8.80	6.68	13.95	4.73	13.44	13.00	15.40	11.46				
1970	9.81	2.51	3.39	4.27	13.84	10.09	9.41	8.82	6.01	12.94	25.19	17.84				
1971	4.03	1.39	1.76	0.37	8.05	9.90	11.30	6.90	7.40	7.10	5.50	1.10				
1972	8.30	1.00	1.50	5.90	4.70	14.20	2.40	4.40	8.10	14.80	4.90	4.30				
1973	0.60	1.10	0.10	4.00	7.90	11.50	6.80	10.10	9.20	13.00	17.50	5.10				
1974	0.50	0.70	0.80	2.60	5.00	7.90	14.80	6.10	8.80	15.40	19.90	2.20				
1975	0.50	0.90	0.90	1.00	9.90	7.80	10.40	14.90	12.40	18.30	14.10	18.90				
1976	1.70	0.70	0.30	9.30	7.90	9.70	6.00	7.30	8.50	10.30	6.90	3.00				
1977	0.80	0.50	0.10	0.70	9.00	7.60	4.50	15.60	12.50	6.30	4.40	2.30				
1978	3.10	0.70	2.90	9.20	5.90	5.70	9.90	10.00	8.40	8.40	14.20	1.50				
1979	0.40	1.90	0.20	7.90	10.70	9.80	7.60	7.30	10.40	8.90	12.10	6.10				
1980	6.40	2.50	0.20	3.60	8.30	8.60	10.80	9.10	5.40	9.60	12.20	8.20				
1981	7.90	1.70	3.40	13.80	12.30	13.00	10.60	10.40	3.60	8.00	28.60	9.90				
1982	6.80	1.20	1.20	5.40	10.40	9.90	10.60	8.00	9.30	13.30	4.70	0.80				
1983	1.20	0.50	0.20	6.00	11.00	10.60	8.30	11.20	7.80	12.80	12.40	9.30				
1984	1.90	2.00	0.50	2.30	10.50	9.80	3.80	13.50	4.60	9.50	16.00	3.30				
1985	5.10	1.00	0.80	0.50	9.50	8.60	11.90	8.60	8.40	12.60	9.10	15.80				
1986	1.70	0.90	0.70	8.20	5.00	8.30	7.40	8.30	9.80	16.70	5.00	5.00				
1987	1.60	2.00	0.20	9.30	13.00	7.30	12.10	10.70	12.90	15.30	16.60	6.00				
1988	0.70	1.40	0.10	1.80	5.60	9.30	8.00	9.10	11.00	20.00	16.50	6.90				
1989	1.80	5.30	1.30	3.20	2.80	4.80	4.90	9.80	6.90	14.70	13.20	2.80				
1990	0.80	0.10	0.40	0.70	13.90	5.30	12.20	9.50	20.10	11.40	9.40	9.70				
1991	2.00	0.80	4.20	1.30	14.60	5.60	9.00	5.40	14.40	7.80	16.50	1.70				
1992	0.60	0.20	0.50	10.30	11.90	7.60	9.10	9.20	18.50	7.50	11.20	7.10				
1993	1.70	1.90	3.30	8.10	5.50	5.80	9.30	7.60	14.00	12.20	13.90	6.50				
1994	1.40	0.60	1.90	4.50	14.10	10.50	6.10	10.20	5.80	6.10	17.90	3.20				
1995	8.30	0.20	0.60	4.20	13.50	8.40	12.80	6.00	11.50	9.60	14.30	15.50				
1996	12.50	4.90	2.90	4.20	8.40	10.20	9.00	6.60	11.00	11.40	16.20	4.80				
1997	1.20	0.40	0.10	2.00	7.90	5.20	4.90	5.90	6.20	7.10	8.20	0.70				
1998	0.60	0.60	1.50	10.70	11.20	10.90	9.70	9.00	3.10	6.50	4.10	12.70				
1999	3.60	2.00	3.00	5.40	8.20	12.20	11.70	24.90	9.80	11.20	16.40	19.90				
2000	2.90	0.50	0.10	2.80	11.80	16.00	8.50	9.60	7.20	18.80	10.80	23.90				
SITE NO.= 24	RAIN	LAS	CASCADAS (CAS)													
1911	0.00	0.40	0.00	5.55	15.83	6.49	5.77	8.53	8.47	14.42	9.19	3.33				
1912	1.17	0.96	0.14	0.52	9.97	14.34	14.51	16.80	14.81	21.44	12.88	2.79				
1913	1.80	0.87	0.53	1.35	15.19	11.32	8.93	16.13	13.76	13.85	11.55	1.08				
1914	0.47	0.23	0.95	5.46	13.31	19.49	3.85	10.40	13.73	16.93	12.43	4.44				
1915	2.87	2.09	0.70	7.24	11.14	12.77	9.99	7.73	7.10	16.02	12.32	5.73				
1916	2.20	1.90	1.89	9.27	11.47	10.09	7.74	16.53	18.64	22.06	14.02	5.52				
1917	1.73	0.82	1.11	6.06	11.15	7.68	15.07	14.76	16.34	12.19	20.83	6.48				
1918	3.60	0.21	1.08	6.31	8.34	10.24	5.27	9.82	9.24	17.53	8.95	3.10				
1919	1.49	0.67	1.12	6.04	7.86	7.34	8.78	11.35	11.34	15.55	3.91	0.78				
1920	0.00	0.00	0.38	3.28	8.38	7.39	11.42	8.77	12.40	19.24	12.26	1.63				
1921	0.00	3.33	0.45	2.65	8.33	12.19	10.28	15.27	12.14	13.60	12.21	4.60				

1922	5.97	1.71	0.63	0.14	13.47	11.63	5.25	12.58	6.32	13.62	10.45	4.40
1923	0.00	0.00	0.10	0.00	10.46	9.75	7.64	9.35	17.05	31.92	9.87	1.31
1924	0.70	1.74	2.33	6.59	15.03	11.50	9.75	16.43	12.78	9.81	11.25	5.33
1925	1.66	0.00	0.00	0.66	9.45	15.97	10.07	13.63	7.98	10.73	7.68	0.28
1926	0.00	0.35	0.55	1.80	8.97	21.02	17.58	19.90	21.69	17.87	13.53	8.12
1927	2.17	1.15	1.30	8.92	8.79	10.41	9.90	11.73	14.25	11.71	12.02	5.77
1928	0.24	0.64	2.96	7.16	15.19	13.92	9.09	10.93	10.49	9.86	14.76	3.12
1929	0.00	0.01	0.82	0.33	8.79	7.77	7.19	11.70	5.60	18.12	12.48	5.82
1930	2.51	0.81	0.97	4.65	12.48	11.39	13.61	15.79	11.35	10.93	10.78	0.60
1931	0.46	0.89	3.03	2.48	7.76	13.06	12.32	9.93	19.33	12.47	19.58	3.89
1932	2.00	1.09	1.52	14.66	12.97	19.15	8.58	11.61	8.00	23.14	16.33	3.55
1933	1.64	0.54	1.58	0.82	10.64	13.63	7.46	11.38	13.31	8.96	12.23	7.05
1934	1.03	0.46	0.42	2.24	12.17	8.51	5.65	9.87	13.50	12.69	15.13	8.35
1935	0.40	1.28	0.73	2.01	9.30	8.80	14.51	11.05	12.37	10.58	25.77	3.13
1936	0.20	0.85	1.96	5.56	14.63	11.84	10.91	5.83	5.74	17.03	8.36	2.04
1937	2.49	1.02	0.45	6.03	10.20	10.42	9.69	11.19	14.11	13.08	12.83	12.84
1938	1.39	1.06	2.07	4.68	24.23	17.74	11.28	15.76	11.33	19.97	15.30	9.58
1939	1.66	0.59	0.13	1.76	6.68	13.56	7.50	7.84	10.56	13.64	15.42	7.40
1940	1.51	0.71	0.92	3.20	9.73	9.13	3.53	8.84	6.54	10.35	9.37	0.97
1941	0.93	0.98	0.48	1.83	9.46	14.46	15.20	13.66	13.39	11.94	7.99	6.28
1942	1.00	0.13	2.40	2.20	14.13	12.87	8.73	10.09	13.01	22.72	11.33	11.79
1943	2.30	0.74	1.54	6.32	14.44	13.84	7.91	10.15	11.84	10.65	13.58	11.76
1944	1.26	0.11	0.79	6.31	12.28	11.16	6.63	16.25	6.64	15.97	11.74	7.70
1945	0.22	0.18	0.26	6.78	9.58	6.21	10.91	12.36	13.68	12.16	15.42	11.09
1946	0.60	0.00	0.94	0.84	6.21	7.11	10.99	9.98	9.43	10.04	10.24	5.78
1947	0.00	0.28	0.10	1.82	5.51	6.58	8.05	14.06	18.92	16.23	6.52	2.20
1948	2.67	0.39	1.07	1.16	13.85	9.66	15.26	10.10	11.94	9.84	15.39	2.79
1949	2.12	0.70	0.40	2.47	10.10	17.01	11.07	10.46	5.87	16.96	16.85	3.64
1950	1.09	1.42	2.10	0.95	13.11	16.22	13.98	7.01	6.92	10.61	16.76	4.87
1951	0.95	1.29	0.19	2.70	15.30	6.15	8.67	9.91	5.79	7.73	9.03	3.70
1952	0.29	0.20	0.00	1.31	7.46	12.41	7.16	4.65	7.61	18.32	8.84	9.10
1953	2.05	0.85	0.36	1.83	10.22	3.99	7.02	11.17	6.12	13.35	13.91	2.58
1954	0.35	0.45	0.67	3.52	13.24	10.91	16.92	17.07	16.72	13.64	18.77	6.21
1955	3.78	0.24	0.13	1.44	8.58	18.21	6.86	12.45	9.79	12.72	18.01	5.21
1956	2.23	0.91	0.88	1.44	14.53	8.49	13.78	11.01	6.45	13.35	10.50	2.81
1957	0.00	0.00	0.47	1.57	11.98	9.55	9.61	9.65	14.54	13.59	6.21	0.00
1958	0.00	0.00	0.40	2.37	11.97	8.11	9.76	13.92	12.46	14.52	10.31	2.33
1959	0.85	0.64	0.11	1.14	12.81	13.77	7.79	15.51	13.10	17.89	10.65	9.66
1960	0.57	1.32	2.90	4.74	9.66	18.34	12.43	12.13	13.75	16.73	11.96	7.11
1961	0.00	0.12	0.63	2.59	7.13	20.80	10.53	8.45	9.89	9.54	8.63	5.33
1962	0.22	0.00	0.55	4.46	9.35	11.29	7.06	10.25	13.02	14.84	14.01	4.38
1963	1.24	1.29	0.41	3.48	10.16	15.55	13.33	17.78	16.29	11.05	15.46	0.86
1964	0.00	0.50	0.78	5.45	11.02	9.77	10.49	10.26	9.08	11.17	12.43	2.15
1965	1.20	0.00	0.00	1.62	17.32	8.43	8.64	14.06	12.28	11.38	15.61	5.08
1966	3.23	0.46	1.49	6.91	9.02	18.16	11.49	10.49	14.71	6.99	14.83	8.48
1967	0.00	0.40	0.89	5.05	8.26	8.21	11.29	11.49	10.53	15.30	10.76	3.26
1968	0.03	1.45	1.25	1.82	8.73	12.10	8.18	10.74	7.12	13.46	10.47	3.92
1969	0.85	0.44	0.37	2.23	12.01	6.72	7.82	11.43	14.51	9.97	13.05	1.58
1970	3.48	0.00	2.01	0.13	9.70	7.90	10.30	13.30	9.10	16.80	17.75	13.42
1971	6.76	1.84	1.77	1.00	12.70	6.20	10.10	11.84	11.60	17.00	11.75	0.00
1972	3.40	0.90	0.70	5.60	8.80	13.80	3.10	7.40	13.00	11.60	7.80	2.60
1973	0.10	0.10	0.10	1.00	7.20	11.00	7.80	6.20	10.50	7.50	14.20	3.70
1974	0.20	0.10	1.60	0.30	14.60	9.50	7.40	9.90	9.50	12.70	7.10	3.60
1975	0.20	0.20	0.70	0.40	10.50	7.80	11.10	9.80	8.40	13.60	11.70	7.20
1976	0.20	0.00	0.30	2.70	5.20	9.40	3.00	7.40	12.20	7.90	5.50	1.40
1977	0.30	0.10	0.00	0.40	8.70	7.00	8.70	11.70	5.60	14.50	10.50	4.90
1978	0.20	0.20	2.20	7.30	9.40	12.00	10.80	7.30	8.80	13.80	11.80	3.90
1979	0.00	0.10	0.00	6.40	9.90	12.20	7.30	7.70	4.20	14.30	14.10	2.00
1980	2.40	0.50	0.20	0.60	9.60	10.40	8.00	11.00	9.60	6.30	9.20	6.60
1981	1.00	0.10	2.70	13.60	8.50	13.20	9.30	7.30	6.40	7.90	15.20	5.70
1982	4.20	0.10	0.00	2.70	12.60	6.00	7.30	7.80	9.80	12.20	7.20	0.50
1983	0.30	0.30	0.40	2.80	11.00	10.20	5.70	6.40	15.90	8.80	10.80	5.90
1984	0.90	2.00	0.10	1.30	7.70	9.50	6.90	12.50	12.80	16.90	11.20	0.40
1985	0.10	0.20	0.60	2.30	14.60	11.70	7.40	6.70	16.00	5.40	5.50	5.10
1986	0.10	0.40	3.60	5.20	3.80	12.70	7.20	10.10	8.80	22.80	8.40	1.50
1987	0.10	0.30	0.00	7.30	6.70	11.70	10.00	13.00	13.70	9.80	8.70	3.90
1988	0.00	0.10	0.20	1.70	15.40	14.60	9.80	17.80	14.10	23.50	14.40	6.40
1989	0.80	1.10	0.30	0.00	12.80	18.40	18.40	18.10	8.90	18.10	22.50	8.90
1990	2.10	0.00	1.20	1.40	16.80	6.40	12.40	12.20	12.20	18.50	10.80	6.50
1991	1.50	0.20	2.00	3.60	19.00	15.40	12.80	18.20	19.00	17.10	14.60	1.70
1992	0.10	0.10	0.10	5.80	8.60	21.40	15.30	11.40	10.00	16.40	10.60	2.50
1993	4.50	0.10	1.50	5.00	12.10	23.60	14.00	11.60	23.60	17.80	14.60	4.40
1994	1.30	0.50	2.00	0.90	11.60	9.70	7.50	10.50	9.90	14.10	16.70	2.30
1995	0.40	0.10	1.20	7.10	10.90	12.70	10.10	8.10	7.80	10.00	17.10	5.20
1996	8.30	0.90	1.10	1.90	12.20	9.00	10.50	9.20	11.50	9.40	10.70	2.00
1997	0.60	0.00	0.00	1.20	13.00	7.40	9.30	11.10	5.80	10.20	8.70	0.20

1998	0.00	0.00	0.00	2.90	7.90	10.20	11.10	12.60	11.30	9.40	13.20	8.20
1999	1.90	3.90	1.50	2.80	13.00	12.50	4.00	10.40	17.40	8.50	11.70	15.00
2000	2.10	0.10	0.40	4.20	11.80	11.40	6.40	9.40	12.90	13.90	8.40	7.60
SITE NO. - 25 RAIN EMPIRE HILLS (EMH)												
1911	0.02	0.55	0.20	3.93	13.74	5.92	4.00	5.98	5.46	14.97	11.73	0.20
1912	0.01	0.34	0.01	2.64	6.21	8.50	9.15	10.53	13.78	12.44	7.24	3.71
1913	1.67	0.79	0.22	0.90	11.74	11.48	4.87	10.46	9.14	7.25	14.23	2.03
1914	0.34	0.27	0.00	0.50	12.87	8.87	5.02	9.90	9.65	9.07	6.00	4.44
1915	0.67	3.53	0.24	4.96	8.56	7.11	12.17	9.92	8.21	16.36	10.60	4.67
1916	1.07	1.49	0.84	4.05	9.92	7.03	7.86	5.66	9.21	14.29	16.58	5.11
1917	0.01	0.08	0.01	2.40	8.07	12.24	11.96	8.76	11.44	6.38	23.79	7.71
1918	1.50	0.02	0.20	6.91	13.56	9.31	9.24	5.18	9.25	20.15	7.19	0.38
1919	0.50	0.24	0.05	7.52	7.01	5.57	7.72	8.49	11.04	12.41	6.65	2.43
1920	0.15	0.05	0.80	1.51	7.66	11.01	11.18	10.01	18.93	15.64	9.30	1.56
1921	0.15	1.58	0.52	0.65	7.28	9.36	11.72	13.90	7.85	13.65	10.47	4.39
1922	3.58	0.89	0.26	0.00	10.99	8.70	6.53	4.90	6.28	11.55	11.33	4.31
1923	1.01	0.02	0.00	0.22	9.06	17.75	3.91	9.62	7.85	19.37	10.59	3.20
1924	0.01	0.91	0.82	4.26	7.68	10.51	8.60	10.30	7.95	12.76	17.49	5.65
1925	1.70	0.07	0.24	7.55	12.14	9.70	8.80	8.41	13.51	14.40	9.21	1.91
1926	0.08	0.07	0.00	0.00	10.54	11.04	17.28	7.40	13.53	17.09	7.09	9.90
1927	0.30	1.73	0.00	6.51	11.14	14.89	7.75	5.90	13.80	7.53	9.09	5.03
1928	0.35	0.20	0.76	5.18	9.92	6.97	11.07	10.27	14.08	12.03	15.30	3.15
1929	0.75	0.00	0.20	1.93	10.37	5.50	5.92	10.14	7.20	13.61	9.32	6.00
1930	0.96	0.75	0.42	2.51	8.74	11.15	13.85	11.86	11.44	9.48	9.35	2.51
1931	0.70	0.28	0.73	2.68	8.12	12.01	15.60	9.29	15.01	9.65	16.15	1.21
1932	0.00	0.91	1.20	13.65	9.01	15.81	7.70	11.24	8.02	21.74	15.76	2.64
1933	1.42	0.26	0.42	0.53	8.77	11.86	8.51	11.49	14.32	5.64	11.81	9.79
1934	1.38	0.20	0.28	3.93	13.17	6.07	5.79	10.06	17.88	15.23	14.57	8.24
1935	0.91	2.18	0.79	4.43	10.35	7.65	14.44	10.01	10.24	9.68	27.82	2.94
1936	0.00	0.98	1.29	7.29	12.34	12.03	12.32	9.41	7.95	22.49	8.26	2.51
1937	2.75	0.00	0.00	7.08	10.89	8.09	6.68	14.49	14.87	17.67	13.10	18.39
1938	2.07	0.54	0.91	2.41	19.41	19.22	11.00	15.46	10.84	19.86	16.33	8.12
1939	0.72	0.41	0.00	4.17	6.56	9.20	7.67	6.22	8.19	13.86	19.64	5.40
1940	0.98	0.83	0.15	1.24	9.55	9.65	4.31	8.54	6.77	12.39	14.10	2.46
1941	1.73	1.65	0.54	1.15	8.65	9.23	12.62	11.59	9.21	11.99	7.11	5.35
1942	0.00	0.42	1.24	3.13	17.70	10.06	10.13	6.80	14.23	19.57	10.64	13.78
1943	1.85	0.44	1.34	5.90	13.87	6.45	5.27	8.07	12.65	8.51	14.27	8.75
1944	0.56	0.00	0.41	5.15	8.90	15.31	8.55	19.31	8.43	14.63	10.83	6.46
1945	0.00	0.00	0.25	5.75	12.39	9.52	11.80	10.97	10.49	13.15	15.87	9.13
1946	0.91	0.00	1.23	1.18	6.92	6.41	9.88	7.47	9.50	12.54	8.89	5.01
1947	0.42	0.33	0.00	2.75	4.92	12.61	7.87	13.39	15.15	21.57	8.96	1.85
1948	1.14	0.20	0.11	0.19	10.82	8.00	8.81	9.56	13.43	9.72	16.25	1.20
1949	0.97	0.59	0.28	1.92	13.77	14.97	10.65	7.95	6.40	16.05	11.82	2.34
1950	0.65	0.56	0.64	2.36	12.99	20.86	16.29	6.47	6.85	10.67	18.61	6.20
1951	1.73	1.41	0.17	3.24	11.83	7.15	11.42	7.68	3.63	8.35	14.45	6.01
1952	0.16	0.80	0.51	8.10	6.05	9.36	2.34	2.54	8.43	21.52	6.56	6.93
1953	1.68	0.49	0.00	4.25	8.22	5.49	6.56	8.26	4.87	12.43	14.94	1.24
1954	1.17	1.02	0.41	2.78	13.03	14.30	14.42	12.45	14.56	12.15	15.20	5.39
1955	3.89	0.67	0.12	2.76	7.15	13.37	6.89	10.19	6.45	8.24	16.08	6.54
1956	2.79	1.47	0.03	1.49	15.86	5.91	11.70	7.36	7.01	13.58	9.07	1.30
1957	0.44	0.00	0.31	2.22	11.61	8.72	9.21	9.24	13.40	18.76	6.87	0.69
1958	1.10	0.93	1.27	1.70	12.07	11.31	7.17	9.84	12.16	19.06	11.08	2.31
1959	0.00	0.26	0.00	0.72	8.20	11.80	6.85	11.57	7.30	17.39	9.46	6.21
1960	1.99	0.43	0.79	3.40	9.63	14.82	8.45	9.02	12.18	18.83	8.97	10.08
1961	0.15	0.20	0.41	1.91	5.20	15.98	7.79	8.75	10.14	11.65	8.66	8.04
1962	0.74	0.22	0.06	2.32	9.52	9.56	5.54	8.68	10.95	9.10	10.37	3.53
1963	2.67	1.10	0.02	7.79	8.46	10.07	11.94	8.18	8.95	6.59	12.58	3.20
1964	0.28	0.00	0.03	4.43	11.89	11.62	12.70	7.39	10.71	11.14	12.91	2.54
1965	0.88	0.09	0.00	1.87	18.03	4.75	9.72	11.28	10.77	8.27	13.61	2.94
1966	1.87	0.94	0.29	5.95	7.48	14.63	11.15	11.70	14.76	9.50	12.98	10.43
1967	1.00	0.90	0.46	3.68	9.11	11.79	9.74	9.26	12.36	15.41	8.25	2.69
1968	1.12	2.47	0.46	0.60	12.02	9.33	6.68	9.14	8.03	15.97	10.52	0.67
1969	0.18	0.12	0.00	0.74	7.49	6.10	7.47	10.93	13.40	14.88	11.93	3.13
1970	6.18	0.86	2.44	4.61	13.78	6.77	9.72	15.79	10.13	14.06	13.86	10.63
1971	5.63	2.76	1.23	3.17	15.12	5.41	8.99	11.93	12.93	12.85	14.09	0.00
1972	2.66	0.75	0.58	9.03	7.81	11.87	3.53	5.77	17.49	9.89	9.83	3.83
1973	0.00	0.41	0.00	1.64	8.08	10.71	11.54	5.24	7.62	9.26	15.38	3.85
1974	0.64	0.13	0.37	1.65	11.43	12.76	9.67	11.03	13.39	16.61	7.07	4.03
1975	0.52	0.50	0.09	0.89	10.96	9.68	13.78	8.71	8.63	22.13	14.62	5.32
1976	0.58	0.22	0.00	2.76	5.94	6.52	5.32	6.62	11.51	7.61	6.23	1.85
1977	0.79	0.20	0.00	0.64	10.20	7.02	9.14	10.15	4.71	12.16	11.18	3.13
1978	0.35	0.17	0.76	7.26	9.34	9.50	8.62	7.78	10.92	9.74	14.46	0.40
1979	0.00	0.10	0.00	6.90	12.90	9.80	7.30	8.40	5.00	17.70	10.80	3.50
1980	2.40	0.90	0.00	0.50	9.50	11.40	10.50	10.50	9.40	8.60	11.90	4.80
1981	0.60	0.00	2.40	11.50	8.70	15.00	10.70	6.10	10.50	5.40	12.60	5.60
1982	3.00	0.50	0.00	2.90	13.20	4.90	8.20	8.30	9.60	11.00	6.50	0.00

1983	0.10	0.10	0.70	2.50	9.20	8.50	6.90	6.40	14.30	11.00	12.30	6.50				
1984	1.40	2.30	0.00	1.00	9.60	8.80	9.40	15.10	13.60	18.50	7.40	0.30				
1985	0.30	0.30	1.00	1.70	11.30	15.30	12.20	6.70	10.50	5.90	6.50	5.70				
1986	0.10	0.20	2.70	6.80	3.60	10.60	6.70	11.50	9.60	22.50	7.60	1.10				
1987	0.00	0.40	0.00	6.40	7.00	12.90	9.10	13.40	16.10	10.20	22.20	12.60	3.70			
1988	0.00	0.50	0.10	0.80	10.60	12.80	7.90	12.80	10.20							
1989	0.40	0.50	0.20	0.00	4.80	6.90	8.70	13.40	5.40	9.40	13.70	5.60				
1990	1.20	0.10	0.50	2.40	14.60	4.00	15.40	14.60	13.60	20.70	10.70	7.50				
1991	1.50	0.30	2.10	4.00	19.50	9.10	11.90	14.50	17.00	15.80	9.50	2.80				
1992	0.00	0.10	0.10	3.10	5.20	20.00	10.30	7.50	9.00	14.80	8.40	1.80				
1993	3.90	0.20	0.70	3.50	6.80	22.00	11.90	9.50	20.60	13.40	14.40	4.90				
1994	0.80	0.10	2.00	2.00	12.60	9.10	4.40	9.30	8.80	19.40	16.40	0.80				
1995	0.40	0.00	0.90	5.40	10.90	12.50	12.20	7.40	6.80	10.00	15.10	2.50				
1996	7.20	0.60	0.60	1.40	10.40	5.40	8.90	7.40	8.80	9.80	8.10	3.90				
1997	0.30	0.00	0.00	0.60	6.40	5.00	8.20	7.30	7.30	7.70	7.70	0.40				
1998	0.00	0.10	0.00	1.70	11.00	11.00	10.30	15.70	10.70	10.40	13.10	12.60				
1999	1.10	2.10	0.50	2.50	7.00	14.20	3.70	8.70	18.70	9.80	10.40	9.40				
2000	3.10	0.00	0.10	4.40	8.70	9.80	5.80	9.60	12.20	12.70	6.30	6.20				
SITE NO. = 26				RAIN	RIO PIEDRAS (RPD)											
1911	0.61	4.10	0.96	7.20	10.87	6.44	4.69	5.14	13.87	23.79	9.25	0.17				
1912	0.00	0.44	0.00	2.36	7.47	8.95	8.39	5.35	10.14	15.05	12.85	0.55				
1913	1.15	1.00	0.00	0.21	14.21	12.63	8.65	11.06	16.54	13.29	10.47	5.57				
1914	0.00	0.00	0.00	0.02	5.32	11.46	3.04	12.49	17.63	9.54	10.84	3.88				
1915	0.00	5.23	3.01	12.60	5.32	14.45	14.72	11.80	8.16	11.68	14.69	3.46				
1916	1.07	2.37	0.31	6.17	7.45	9.73	12.94	8.70	8.87	12.61	10.06	0.27				
1917	0.00	0.00	0.11	2.85	8.84	11.00	11.50	11.77	13.83	6.21	14.89	0.64				
1918	3.19	1.46	1.18	5.67	17.94	14.27	8.08	3.48	10.51	10.30	6.11	0.65				
1919	3.63	1.45	0.86	9.32	5.24	6.99	5.72	10.00	17.08	10.97	8.23	3.27				
1920	0.49	0.00	1.47	3.21	8.72	13.56	10.84	7.45	10.45	15.29	10.08	0.00				
1921	1.59	2.64	1.81	10.60	9.21	14.25	17.67	18.07	22.28	18.93	9.25	7.37				
1922	2.66	1.61	0.00	2.67	12.05	13.60	3.15	7.76	9.26	15.60	9.92	13.13				
1923	0.00	0.97	0.31	1.45	3.95	9.46	8.71	6.65	13.29	22.51	9.89	0.00				
1924	0.74	1.76	0.77	5.07	10.79	7.35	20.81	13.15	17.81	1.89	6.57	0.00				
1925	1.47	0.00	1.43	7.73	17.11	9.55	9.62	9.85	16.45	7.67	6.42					
1926	0.00	1.77	1.11	2.94	6.67	18.77	12.30	11.01	12.40	12.93	11.10	15.87				
1927	1.90	4.28	3.46	7.33	11.00	8.25	17.56	4.38	11.48	9.36	12.12	16.11				
1928	2.57	0.22	3.67	2.75	9.12	6.82	10.18	11.19	10.57	13.03	12.32	6.73				
1929	0.00	1.43	2.05	1.29	9.37	8.48	6.58	11.43	10.69	10.19	9.45	1.74				
1930	1.80	0.85	0.97	5.64	12.95	5.32	11.49	4.23	10.63	7.21	5.32	0.00				
1931	0.89	0.39	3.76	0.65	14.81	10.20	9.97	7.75	15.01	15.30	23.67	6.08				
1932	2.81	0.00	0.97	7.09	10.99	6.72	6.28	14.68	14.43	21.52	16.65	2.77				
1933	3.58	0.89	2.49	1.32	13.60	16.56	14.08	7.60	9.76	4.78	15.47	3.64				
1934	0.84	0.00	0.12	3.20	15.10	8.01	12.41	6.55	11.84	13.27	9.60	3.15				
1935	0.00	3.15	0.16	0.35	13.94	12.28	24.16	14.76	12.56	11.67	28.30	6.68				
1936	1.79	0.00	0.00	3.02	13.61	3.53	7.28	8.05	11.38	14.62	8.42	0.00				
1937	3.68	0.00	0.00	1.95	8.87	7.30	9.71	5.02	12.45	13.46	12.78	15.28				
1938	0.29	1.14	0.27	5.12	26.18	10.54	9.15	20.92	12.81	11.29	8.37	24.50				
1939	1.05	0.00	0.28	0.00	3.99	13.20	6.76	10.54	14.65	11.40	15.44	7.62				
1940	1.30	0.19	0.71	2.15	4.96	4.57	7.47	7.71	8.23	7.87	8.33	0.00				
1941	0.76	4.70	2.38	2.98	9.80	12.17	6.36	5.49	14.18	19.71	10.13	0.00				
1942	0.00	0.00	1.22	1.17	12.45	4.45	6.04	10.33	10.10	11.24	3.96	6.83				
1943	4.29	1.94	3.14	2.40	13.59	15.47	8.58	10.63	12.76	12.19	7.70	16.21				
1944	0.36	0.44	1.48	8.69	7.14	15.23	7.26	18.69	10.34	16.05	8.38	9.56				
1945	0.56	0.00	0.00	7.55	13.00	12.97	17.00	16.18	6.51	7.59	12.27	5.80				
1946	0.82	0.18	0.79	1.28	11.42	13.68	15.54	5.91	15.49	8.76	7.29	4.74				
1947	0.00	0.98	0.73	1.22	1.34	8.25	4.95	8.94	7.17	8.37	9.14	11.08				
1948	0.70	0.00	0.00	0.81	7.36	6.71	16.43	8.83	8.30	9.15	11.46	3.80				
1949	0.00	0.00	0.66	0.89	6.75	15.95	10.42	10.73	10.38	12.32	13.21	0.39				
1950	0.28	0.44	0.00	1.77	9.56	15.66	27.01	12.34	8.47	3.64	9.96	10.13				
1951	1.16	4.56	0.00	3.57	11.08	3.67	9.92	13.40	15.10	13.18	8.85	7.21				
1952	0.33	0.00	0.00	1.10	9.30	14.93	12.80	12.72	16.69	16.80	9.95	18.08				
1953	6.86	0.62	1.89	2.73	16.59	1.70	4.47	5.49	4.73	13.88	12.71	2.53				
1954	0.00	2.93	0.00	0.00	13.23	14.24	14.76	10.15	18.36	14.24	15.44	5.30				
1955	5.09	0.69	3.29	0.00	3.46	11.50	10.95	13.91	9.14	10.54	18.40	5.67				
1956	4.81	4.79	2.08	6.07	17.58	11.72	15.52	11.04	10.01	11.76	12.21	3.39				
1957	0.00	0.92	0.32	1.76	8.56	5.63	4.18	3.10	5.58	12.52	6.62	4.16				
1958	1.89	0.92	0.46	0.14	7.81	15.29	9.63	11.07	8.66	7.32	11.07	0.00				
1959	0.00	0.00	0.00	1.80	7.01	12.80	7.24	15.70	14.41	14.33	4.76	7.72				
1960	3.07	0.10	0.47	5.36	17.50	7.93	17.05	10.83	8.34	8.86	6.82	19.80				
1961	0.23	0.00	0.11	5.71	10.39	23.17	6.27	9.13	14.66	10.55	6.66	6.57				
1962	0.32	0.00	0.00	2.82	8.04	5.24	7.94	10.68	11.19	10.71	9.22	10.53				
1963	1.51	2.13	0.68	11.45	10.03	15.25	13.44	16.58	10.59	6.44	6.34	0.00				
1964	0.00	0.52	0.00	1.62	3.15	13.79	11.71	10.27	7.35	14.84	18.18	4.80				
1965	0.62	0.00	0.51	2.55	6.60	5.14	7.71	12.13	13.38	12.57	13.72	5.88				
1966	1.97	0.78	1.22	9.28	17.13	8.64	11.33	14.63	15.52	16.55	14.18	16.44				
1967	0.28	1.42	2.35	7.21	8.91	23.02	14.13	9.43	10.46	13.72	13.89	5.83				

1968	0.00	1.75	1.88	0.00	12.42	7.12	9.54	8.92	6.09	13.85	13.14	4.71
1969	1.53	0.34	3.90	6.09	7.72	3.60	9.23	10.75	11.50	6.81	10.37	9.86
1970	9.84	3.77	1.91	6.88	13.85	7.00	9.73	13.76	14.20	9.78	9.38	14.26
1971	1.31	0.92	2.53	0.00	15.46	13.03	16.87	11.66	13.89	10.92	11.35	1.11
1972	4.03	1.01	0.50	6.59	10.44	15.43	3.98	6.13	9.35	15.72	7.43	0.26
1973	0.89	0.34	0.19	0.00	7.01	7.87	11.85	7.15	10.16	15.17	16.01	4.00
1974	0.23	9.75	1.63	2.09	3.02	7.65	7.75	4.86	13.74	10.81	8.60	4.95
1975	0.00	1.53	0.00	0.70	16.51	11.55	12.86	8.41	11.96	25.64	12.09	10.49
1976	0.08	0.00	0.24	1.65	4.40	4.25	0.00	6.38	9.06	6.80	4.42	0.00
1977	1.92	0.00	0.64	0.58	7.61	4.88	6.00	9.96	9.54	12.25	8.20	1.01
1978	0.02	1.08	2.56	8.11	18.79	12.16	9.80	9.50	10.43	15.04	11.93	4.81
1979	0.00	0.00	0.00	4.65	3.42	4.85	13.89	6.38	5.95	13.57	16.96	15.28
1980	3.40	3.24	0.62	1.12	5.83	12.49	8.68	10.84	6.26	7.53	11.07	11.90
1981	5.47	0.72	2.33	18.97	10.06	14.51	8.45	10.74	7.01	6.64	7.78	4.49
1982	0.35	0.00	0.00	0.71	6.31	10.30	8.52	3.05	10.44	17.67	4.31	0.00
1983	0.35	1.60	0.72	6.59	11.37	7.01	4.33	6.11	14.79	17.18	11.61	12.18
1984	0.46	2.66	0.00	0.00	0.59	5.27	8.44	13.77	6.20	12.90	9.68	0.20
1985	2.03	0.04	2.84	0.75	1.20	6.60	9.10	6.50	12.60	6.90	4.20	11.20
1986	1.10	0.00	1.60	7.50	11.40	9.20	5.10	4.40	11.20	20.80	11.20	2.90
1987	1.30	1.60	0.50	12.20	18.20	7.90	13.00	12.50	13.40	14.70	13.40	3.90
1988	0.50	4.00	0.90	1.90	18.80	15.90	16.00	15.50	16.00	17.60	13.00	4.30
1989	2.20	4.50	1.20	2.00	4.00	7.30	15.30	10.40	8.10	11.50	13.90	7.60
1990	0.00	0.00	0.00	0.00	12.10	2.70	10.80	10.20	14.60	18.50	8.90	9.30
1991	0.50	1.50	3.20	3.60	10.10	8.50	13.20	7.00	13.90	10.00	10.90	1.10
1992	0.50	0.20	0.40	2.30	14.40	13.60	7.90	11.80	9.20	15.70	10.40	4.30
1993	2.40	0.10	5.80	7.40	14.50	22.70	7.60	7.40	15.70	12.20	6.40	2.90
1994	1.10	1.10	1.60	1.20	15.80	9.90	8.40	9.40	6.50	13.40	19.00	2.60
1995	0.90	0.00	0.30	1.10	9.60	18.50	15.00	18.40	9.60	8.10	10.20	6.60
1996	8.90	3.30	2.90	8.40	17.90	11.40	11.30	15.60	9.90	13.80	16.30	11.70
1997	0.40	1.30	0.40	4.10	8.50	9.10	2.30	4.40	10.40	7.80	12.30	1.10
1998	0.80	0.60	1.30	3.30	18.60	5.70	16.90	11.40	15.50	10.40	16.50	13.20
1999	3.10	6.10	1.90	6.90	12.40	25.60	11.90	13.70	14.60	10.00	11.80	28.20
2000	4.70	1.10	1.30	5.60	10.80	17.90	9.60	18.10	17.80	18.20	11.30	28.30
SITE NO.= 27		RAIN	SANTA ROSA (SRO)									
1911	1.62	2.48	1.28	8.28	14.53	10.13	9.49	9.31	8.39	15.34	8.77	3.13
1912	0.00	1.51	0.54	0.91	9.88	13.84	10.54	19.49	11.28	18.06	10.82	2.46
1913	2.02	0.72	0.00	6.64	10.47	7.25	11.26	14.03	11.34	9.28	11.71	4.67
1914	0.00	0.78	0.48	5.20	7.59	28.19	7.12	12.77	17.13	18.05	12.32	2.26
1915	2.06	3.21	1.27	16.35	7.85	17.72	9.63	8.36	15.90	23.57	12.72	9.77
1916	0.37	2.07	1.52	5.85	12.18	16.09	12.47	15.52	18.00	15.39	9.97	1.62
1917	1.92	0.02	0.50	4.04	14.74	10.03	12.55	16.39	11.83	16.84	16.06	4.87
1918	3.81	0.81	1.77	5.46	9.83	15.18	8.68	10.17	10.02	14.69	5.80	1.83
1919	0.99	0.47	1.27	15.68	6.00	6.74	10.68	8.69	9.94	27.76	10.46	1.67
1920	0.03	0.00	0.33	3.09	6.12	11.14	13.63	11.04	12.65	20.42	11.41	0.59
1921	1.12	5.86	0.19	2.56	8.47	13.43	14.68	13.33	17.90	12.50	7.90	9.97
1922	6.29	3.36	0.00	0.00	10.15	14.10	7.49	12.72	13.59	12.05	9.44	11.38
1923	1.20	0.00	0.18	0.00	11.13	8.59	9.81	9.61	12.44	30.10	11.50	0.00
1924	0.00	2.79	1.36	5.65	12.88	12.51	10.61	11.13	13.99	9.23	16.29	17.78
1925	2.98	0.39	1.31	1.15	3.70	15.00	8.23	11.31	13.97	10.46	11.36	0.94
1926	0.00	0.13	0.00	0.00	2.36	21.02	13.39	17.06	14.72	11.81	14.19	7.42
1927	0.00	0.00	1.20	6.99	8.68	24.57	10.79	11.35	10.67	8.12	9.82	5.06
1928	0.69	0.45	2.93	6.41	8.49	7.62	11.90	15.28	12.76	18.62	12.25	5.69
1929	0.49	0.11	1.80	3.10	9.16	6.33	10.31	15.32	11.40	18.30	13.54	2.16
1930	0.00	0.64	0.38	7.86	9.48	5.20	11.59	12.47	12.88	5.80	8.92	0.00
1931	1.06	0.25	2.68	2.58	14.55	15.53	9.98	9.66	13.95	10.63	18.65	4.79
1932	0.00	0.75	0.90	7.81	12.00	15.57	9.66	12.99	9.21	19.35	16.06	1.35
1933	0.00	0.07	1.08	2.33	10.82	10.35	8.10	13.78	13.58	11.49	19.95	18.76
1934	3.41	0.05	0.88	6.17	14.11	8.33	9.59	12.31	16.81	16.80	13.54	7.38
1935	2.51	1.23	0.00	6.97	12.92	12.05	16.16	16.94	12.17	14.22	23.95	5.45
1936	1.75	1.00	1.03	5.64	8.28	9.41	14.31	8.63	15.60	17.75	8.35	0.00
1937	3.46	0.73	1.19	2.60	6.06	11.78	9.74	14.39	14.08	9.16	16.54	16.26
1938	1.02	0.12	0.40	3.36	13.56	15.68	13.53	14.48	13.81	20.29	10.13	8.91
1939	0.00	0.25	1.10	2.96	4.77	8.97	8.96	8.53	12.45	9.35	16.01	5.23
1940	1.56	0.84	0.73	3.33	6.63	6.51	8.47	14.84	14.95	14.90	12.02	2.51
1941	2.51	2.13	0.87	3.43	7.41	9.39	13.54	9.51	12.40	12.16	11.24	8.20
1942	0.50	0.30	2.45	10.86	9.43	16.47	8.71	7.21	13.29	15.84	11.55	12.53
1943	3.44	0.96	0.89	6.99	11.12	15.21	9.72	10.35	9.43	13.28	13.04	15.65
1944	0.43	0.00	1.07	7.33	11.69	3.52	9.03	17.01	9.25	27.63	8.91	7.87
1945	1.12	1.02	0.44	4.76	9.15	4.24	12.74	14.10	11.84	13.37	12.56	8.79
1946	2.58	0.00	1.59	1.91	6.29	9.72	12.92	6.75	11.32	6.84	15.21	6.67
1947	0.42	0.36	1.15	4.42	9.63	15.88	9.30	17.66	17.50	11.42	10.25	6.71
1948	0.42	0.00	0.52	1.59	13.15	11.62	11.68	11.85	5.69	15.95	15.96	2.00
1949	0.04	0.00	1.06	1.78	10.25	16.12	10.53	11.53	11.44	14.14	16.56	3.93
1950	0.65	0.52	1.36	2.19	7.88	16.85	15.22	10.70	8.44	7.08	14.97	9.44
1951	0.76	4.30	0.00	9.71	11.43	9.15	10.52	12.99	8.75	14.14	10.19	6.15
1952	1.03	0.95	0.13	3.77	11.86	26.67	10.99	5.00	9.90	12.38	7.20	10.84

1953	4.08	0.82	1.06	5.75	11.70	7.59	11.22	7.90	8.69	14.55	10.57	2.94
1954	0.14	0.20	1.84	6.14	10.64	10.19	14.20	14.80	11.25	11.10	13.33	5.67
1955	5.77	0.51	0.58	1.16	9.62	22.19	12.87	13.16	8.01	6.16	12.55	7.00
1956	3.90	1.34	1.07	6.46	12.70	7.62	14.71	9.87	13.66	20.34	11.72	1.01
1957	0.52	0.19	0.00	0.00	8.81	12.66	9.08	9.16	20.38	12.96	11.06	1.20
1958	1.58	1.20	1.52	2.95	11.67	9.20	9.11	10.07	9.66	7.28	10.66	4.09
1959	0.00	0.00	0.23	0.56	9.13	8.71	6.52	8.16	7.43	11.90	7.51	18.67
1960	0.27	0.50	1.95	5.71	10.74	12.01	14.08	15.07	12.13	18.21	10.95	15.34
1961	1.78	0.00	1.74	3.63	8.87	22.43	11.42	13.74	13.75	15.94	9.57	4.96
1962	0.00	0.00	1.00	2.88	7.81	7.98	10.86	10.56	16.35	14.31	12.25	9.05
1963	5.66	0.38	1.17	2.53	8.77	11.26	13.46	16.52	10.12	7.80	13.71	0.00
1964	0.22	0.00	1.14	7.22	10.96	13.31	14.71	12.95	13.02	12.27	15.55	5.66
1965	1.32	0.33	0.63	1.15	11.08	8.19	7.91	8.90	14.80	16.70	15.04	5.81
1966	0.76	0.00	0.11	4.93	7.88	17.36	9.33	9.86	18.53	9.40	20.56	10.46
1967	0.00	0.00	0.34	5.39	10.26	15.25	13.28	14.84	16.73	13.98	12.83	3.61
1968	1.01	2.11	0.32	0.67	10.80	17.59	10.08	20.53	15.08	13.36	12.04	1.58
1969	1.05	0.58	0.55	5.94	8.81	5.82	13.19	24.82	13.26	10.57	14.57	7.49
1970	5.68	1.28	2.32	10.36	10.01	7.08	10.35	14.16	15.11	14.29	14.40	11.81
1971	11.56	1.18	3.45	4.52	15.02	11.44	15.55	14.67	17.07	14.96	13.25	1.07
1972	6.32	1.13	1.34	9.91	8.87	11.32	9.67	7.70	14.82	14.52	10.02	3.75
1973	3.36	0.00	0.02	1.43	9.28	22.63	12.40	6.40	13.40	13.15	15.86	2.14
1974	0.00	1.10	0.76	4.80	10.21	22.05	11.32	5.13	11.82	19.17	7.01	0.00
1975	0.00	1.15	1.95	1.88	6.38	9.87	12.60	10.76	13.53	16.42	16.56	14.30
1976	0.14	0.00	0.82	2.26	6.17	12.84	6.95	7.30	11.06	8.89	8.99	0.78
1977	0.00	0.37	0.21	3.29	10.90	9.20	8.48	16.55	10.31	12.49	11.25	6.71
1978	0.00	0.27	1.23	9.40	11.79	13.02	12.91	9.74	7.48	11.22	8.46	8.46
1979	0.48	0.09	0.67	11.59	4.78	15.46	12.68	16.35	5.22	15.86	8.57	5.00
1980	3.77	1.05	0.66	1.92	10.65	7.32	11.84	13.83	12.94	10.38	10.08	3.91
1981	2.07	0.00	1.96	22.04	12.38	10.68	12.11	12.89	5.18	6.51	14.45	10.80
1982	4.61	0.00	0.15	5.06	11.16	5.98	8.16	5.17	12.95	14.12	8.69	0.00
1983	0.14	0.00	0.00	2.52	14.77	9.63	9.08	8.78	15.45	16.76	12.15	7.06
1984	0.79	2.93	0.93	3.75	8.96	9.60	9.89	14.69	17.11	14.52	14.56	0.00
1985	2.49	0.00	0.48	0.00	12.29	14.50	12.37	8.43	17.68	6.98	11.04	3.79
1986	0.30	0.60	2.40	4.20	3.20	16.60	7.70	6.70	9.60	18.30	8.40	2.50
1987	0.20	0.20	0.60	14.30	10.90	17.40	12.50	13.30	19.50	13.10	11.00	3.30
1988	1.20	0.20	0.20	2.20	7.50	9.00	10.90	6.80	12.40	13.70	9.70	2.30
1989	0.50	1.00	0.80	0.00	8.10	4.30	11.60	10.90	5.90	7.10	18.90	3.60
1990	0.70	0.20	0.80	1.50	10.50	4.50	12.10	9.40	13.20	15.60	10.40	6.20
1991	0.50	0.00	1.10	4.60	14.90	14.50	10.90	7.00	10.90	11.70	9.30	3.60
1992	0.10	0.00	0.10	6.60	9.30	13.90	11.00	10.70	12.00	8.40	7.00	2.60
1993	3.80	0.20	2.60	8.40	8.10	14.40	13.10	9.00	20.60	16.10	12.00	2.90
1994	1.00	0.10	0.40	0.90	8.90	6.80	7.70	11.80	11.20	19.30	11.40	1.60
1995	0.00	0.00	0.20	6.50	13.60	12.40	14.00	16.80	15.80	23.10	16.90	7.80
1996	10.10	0.50	2.20	3.50	10.10	12.70	12.30	16.00	9.30	9.10	11.80	2.00
1997	0.20	0.00	0.00	1.80	8.40	10.30	9.40	8.40	11.70	8.80	10.40	0.20
1998	0.10	0.20	0.00	2.30	8.40	13.80	10.20	13.50	14.20	7.20	10.40	12.90
1999	0.80	4.80	1.40	3.20	10.50	18.40	7.30	14.30	9.10	13.70	16.10	18.60
2000	1.30	0.10	0.20	2.60	9.80	10.60	8.70	14.20	11.60	13.90	10.30	9.80

SITE STATISTICS

1

FILLED DATA SET

0	EXISTING SITE NO.	1	RAIN	ALHAJUELA (ALA)
ORIGINAL SITE NO.	1			
TOTAL NO. OF DATA POINTS	1080			
ONON TRANSFORMED DATA				
MEAN:	1.179	0.455	0.564	3.276 10.313 11.379 11.211 11.312 11.403 14.001 12.769 5.021
S.D.:	1.913	0.829	0.773	2.914 3.521 3.278 3.680 3.454 3.457 4.363 4.997 4.368
OLOG TRANSFORMED DATA				
MEAN:	1.043605	1.018150	1.022731	1.113482 1.300908 1.324935
	1.320141	1.322765	1.324966	1.373292 1.347741 1.161202
S.D.:	0.060426	0.030521	0.030046	0.089569 0.078475 0.066300
	0.074565	0.072074	0.068827	0.077277 0.090092 0.111940
0	EXISTING SITE NO.	2	RAIN	BALBOA HEIGHT (BHT)
ORIGINAL SITE NO.	4			
TOTAL NO. OF DATA POINTS	1080			
ONON TRANSFORMED DATA				
MEAN:	1.406	0.642	0.617	2.891 8.278 8.167 7.245 7.854 8.135 10.901 9.974 4.984
S.D.:	1.787	0.921	0.897	2.442 3.084 3.244 2.530 2.992 2.814 3.466 3.726 3.024

0LOG TRANSFORMED DATA

MEAN:

1.052738	1.025525	1.024587	1.103367	1.255912	1.252695
1.232152	1.245747	1.253366	1.314590	1.293659	1.167322

S.D.:

0.059072	0.035047	0.034277	0.075710	0.071865	0.074924
0.062220	0.071842	0.066688	0.068704	0.075276	0.084076

0 EXISTING SITE NO. 3 RAIN GAMBOA (GAM)
 ORIGINAL SITE NO. 13
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

1.382	0.616	0.557	2.926	9.954	9.929	9.597	9.865	10.023	12.285	11.715	5.218
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S.D.:

1.877	0.888	0.785	2.587	3.046	3.241	3.680	3.237	2.805	4.045	5.008	3.943
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0LOG TRANSFORMED DATA

MEAN:

1.051289	1.024643	1.022445	1.103696	1.294818	1.293664
1.285086	1.292655	1.297364	1.341287	1.326177	1.169828

S.D.:

0.062727	0.032946	0.030435	0.079972	0.067830	0.071472
0.077348	0.067854	0.060034	0.075447	0.094349	0.101355

0 EXISTING SITE NO. 4 RAIN GATUN (GAT)
 ORIGINAL SITE NO. 14
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

3.355	1.758	1.581	5.273	12.220	11.244	12.338	13.001	11.181	15.439	19.057	11.159
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S.D.:

3.112	1.695	1.497	4.127	4.377	3.784	4.450	3.772	3.859	5.172	8.879	7.427
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0LOG TRANSFORMED DATA

MEAN:

1.115867	1.066777	1.060519	1.169569	1.338340	1.320643
1.340251	1.355859	1.318834	1.397387	1.444850	1.299531

S.D.:

0.088302	0.052583	0.051280	0.109411	0.085794	0.075093
0.088170	0.071737	0.078537	0.082369	0.124146	0.149704

0 EXISTING SITE NO. 5 RAIN PEDRO MIGUEL (PMG)
 ORIGINAL SITE NO. 21
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

1.220	0.388	0.495	3.421	9.642	9.551	9.150	9.151	9.226	11.953	10.679	4.890
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S.D.:

1.563	0.752	0.876	2.994	3.579	3.272	2.489	3.013	2.597	3.359	3.993	3.679
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0LCG TRANSFORMED DATA

MEAN:

1.046203	1.015506	1.019671	1.118086	1.286188	1.285142
1.278494	1.277182	1.279895	1.336537	1.307799	1.161815

S.D.:

0.055853	0.028900	0.032539	0.089714	0.077716	0.072313
0.056734	0.065057	0.059153	0.065339	0.081278	0.094508

0 EXISTING SITE NO. 6 RAIN MONTE LIRIO (MLR)
 ORIGINAL SITE NO. 20
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

2.722	1.412	1.534	4.099	10.887	10.885	11.033	12.551	11.172	15.242	17.650	9.855
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S.D.:

3.043	1.327	1.670	3.486	3.809	3.745	3.546	3.850	3.686	5.521	7.569	7.217
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0LOG TRANSFORMED DATA

MEAN:

1.094751	1.054772	1.057964	1.137161	1.312633	1.313194
1.316779	1.346990	1.319344	1.392557	1.426731	1.271215

S.D.:

0.087398	0.046106	0.057266	0.099953	0.079550	0.075486
0.073029	0.072956	0.074387	0.090069	0.112259	0.150200

0 EXISTING SITE NO. 7 RAIN LIMON BAY (LMB)
 ORIGINAL SITE NO. 9
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

2.693	1.409	1.181	4.381	12.354	13.453	13.755	15.131	12.512	16.840	20.691	11.139
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S.D.:

2.812	1.674	1.131	3.962	5.059	4.882	5.026	4.330	4.134	5.796	8.397	7.539
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0LOG TRANSFORMED DATA

MEAN:

1.094769	1.053628	1.046466	1.143242	1.338436	1.361077
1.365708	1.393729	1.345192	1.419188	1.471182	1.298379

S.D.:

0.083413	0.052844	0.040948	0.109185	0.097316	0.088809
0.094595	0.075217	0.079320	0.090783	0.117119	0.152029

0 EXISTING SITE NO. 8 RAIN SALAMANCA (SAL)

ORIGINAL SITE NO. 24

TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

1.469	0.642	0.602	3.411	9.746	11.441	10.472	11.296	11.144	13.580	12.686	5.994
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S.D.:

1.851	0.844	0.701	3.427	3.854	3.325	4.658	3.345	3.024	4.450	6.158	4.438
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OLOG TRANSFORMED DATA

MEAN:

1.054838	1.025815	1.024484	1.115741	1.287163	1.326063
1.300329	1.322652	1.320706	1.365182	1.343071	1.188892

S.D.:

0.061050	0.031159	0.027329	0.096669	0.085427	0.067029
0.096743	0.071219	0.062551	0.079360	0.100928	0.112167

0 EXISTING SITE NO. 9 RAIN CANO (CNO)

ORIGINAL SITE NO. 5

TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

2.171	0.927	0.913	3.034	9.746	9.161	8.926	10.079	9.940	13.131	12.914	7.040
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S.D.:

2.367	0.970	1.000	2.671	3.468	2.972	3.309	3.239	2.767	3.646	5.615	5.037
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OLOG TRANSFORMED DATA

MEAN:

1.078600	1.036944	1.036276	1.107091	1.288983	1.277542
1.270415	1.297058	1.295595	1.358875	1.348326	1.214596

S.D.:

0.073132	0.036243	0.037491	0.080966	0.074776	0.064160
0.076162	0.070556	0.059929	0.067933	0.099660	0.118245

0 EXISTING SITE NO. 10 RAIN BARRO COLORADO (BCI)

ORIGINAL SITE NO. 3

TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

2.624	1.456	1.228	3.955	10.913	10.891	10.646	12.120	10.619	14.274	16.048	8.874
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S.D.:

2.923	1.508	1.254	3.459	3.989	3.666	3.884	3.804	3.098	4.254	7.179	6.427
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OLOG TRANSFORMED DATA

MEAN:

1.092062	1.055752	1.047862	1.133190	1.312507	1.313534
1.307541	1.338791	1.309475	1.378730	1.400605	1.252451

S.D.:

0.084420	0.051847	0.044972	0.097077	0.083286	0.074225
0.079123	0.071221	0.064424	0.074284	0.113311	0.140955

0 EXISTING SITE NO. 11 RAIN CANDELARIA (CDL)

ORIGINAL SITE NO. 6

TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

4.319	2.456	1.940	6.367	13.649	13.654	13.240	13.644	12.763	14.512	15.505	11.727
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S.D.:

4.104	2.210	1.784	5.306	4.187	4.224	4.936	4.077	3.244	4.629	7.282	7.678
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OLOG TRANSFORMED DATA

MEAN:

1.141778	1.089725	1.072853	1.193702	1.367353	1.366879
1.356170	1.366914	1.352806	1.382140	1.392317	1.311643

S.D.:

0.105104	0.067173	0.057951	0.129713	0.074236	0.078870
0.094535	0.078195	0.062223	0.078425	0.107204	0.147210

0 EXISTING SITE NO. 12 RAIN PELUCA (PEL)

ORIGINAL SITE NO. 22

TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:

3.846	2.069	1.708	5.812	13.022	13.072	12.276	12.404	11.605	13.690	15.317	11.049
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S.D.:

3.650	1.761	1.393	5.148	4.417	4.080	4.800	3.085	2.964	4.310	7.254	7.362
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OLOG TRANSFORMED DATA

MEAN:

1.129390 1.077746 1.065711 1.179545 1.354133 1.356224
 1.337536 1.345998 1.330541 1.367701 1.388548 1.299220
 S.D.:
 0.096514 0.056295 0.047715 0.125636 0.083864 0.077620
 0.095540 0.062107 0.058811 0.076638 0.110476 0.142200
 0 EXISTING SITE NO. 13 RAIN CHICO (CHI)
 ORIGINAL SITE NO. 8
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN:
 1.565 0.766 0.599 3.269 10.865 12.496 12.619 13.034 12.722 15.686 13.374 6.584
 S.D.:
 1.983 1.327 0.583 2.860 4.040 3.757 5.262 4.032 2.799 4.464 5.430 4.892
 OLOG TRANSFORMED DATA
 MEAN:
 1.057972 1.029421 1.024627 1.113843 1.311565 1.346101
 1.342657 1.355685 1.353167 1.403213 1.359284 1.202428
 S.D.:
 0.063705 0.045084 0.023055 0.086215 0.082130 0.072331
 0.102052 0.076535 0.053454 0.074911 0.086877 0.120282
 0 EXISTING SITE NO. 14 RAIN AGUA CLARA (ACL)
 ORIGINAL SITE NO. 2
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN:
 4.017 2.400 2.420 6.068 14.609 13.946 13.364 14.982 13.363 19.708 22.331 12.176
 S.D.:
 4.434 2.288 2.535 5.254 5.580 4.024 5.475 4.257 4.182 6.565 10.214 9.083
 OLOG TRANSFORMED DATA
 MEAN:
 1.130366 1.087045 1.086599 1.186081 1.381480 1.373199
 1.357136 1.391346 1.362001 1.463216 1.490304 1.314086
 S.D.:
 0.111674 0.072078 0.077340 0.127328 0.088705 0.072338
 0.099394 0.073968 0.074451 0.089824 0.127469 0.161845
 0 EXISTING SITE NO. 15 RAIN LAS RACIES (RAI)
 ORIGINAL SITE NO. 18
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN:
 2.369 1.004 1.113 3.661 10.065 9.392 8.331 8.941 9.799 12.417 12.652 7.581
 S.D.:
 2.182 1.279 1.106 3.011 3.453 3.099 3.102 3.203 2.767 4.085 5.593 5.515
 OLOG TRANSFORMED DATA
 MEAN:
 1.086680 1.039142 1.043810 1.126044 1.296208 1.282298
 1.256806 1.271407 1.292368 1.343643 1.343251 1.225669
 S.D.:
 0.067649 0.043865 0.041124 0.088428 0.073172 0.067413
 0.075157 0.071583 0.061225 0.077204 0.099419 0.127116
 0 EXISTING SITE NO. 16 RAIN SAN MIGUEL (SMG)
 ORIGINAL SITE NO. 25
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN:
 6.074 3.371 3.499 8.862 16.271 14.624 14.719 14.395 12.748 14.218 17.767 14.029
 S.D.:
 6.201 2.495 3.083 7.109 5.719 4.850 5.593 4.423 3.717 5.371 8.769 8.766
 OLOG TRANSFORMED DATA
 MEAN:
 1.182532 1.119464 1.120305 1.249568 1.409653 1.383165
 1.382169 1.380389 1.351637 1.373060 1.424168 1.354113
 S.D.:
 0.134138 0.074335 0.090581 0.146131 0.091911 0.083881
 0.096941 0.077044 0.066580 0.099841 0.128073 0.150567
 0 EXISTING SITE NO. 17 RAIN EL CHORRO (CHR)
 ORIGINAL SITE NO. 10
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN:
 2.648 1.215 1.429 3.612 10.838 9.409 7.897 10.249 11.976 12.614 12.487 6.874
 S.D.:
 2.232 1.287 1.470 2.884 3.372 3.807 3.073 3.615 4.234 4.118 4.834 5.259
 OLOG TRANSFORMED DATA
 MEAN:
 1.096025 1.047257 1.054782 1.125127 1.313192 1.279639

1.246428 1.299524 1.334434 1.347087 1.341872 1.207919
 S.D.: 0.070132 0.045605 0.051628 0.085483 0.070291 0.085613
 0.074261 0.077391 0.079756 0.080143 0.093842 0.127267
 0 EXISTING SITE NO. 18 RAIN CIENTO (CNT)
 ORIGINAL SITE NO. 7
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN: 3.488 1.808 1.626 4.742 14.101 12.353 11.896 13.021 12.520 18.499 19.633 12.245
 S.D.: 3.854 1.750 1.718 4.158 5.572 3.659 4.308 3.710 3.746 7.372 9.002 9.187
 OLOG TRANSFORMED DATA
 MEAN: 1.115708 1.067983 1.061290 1.153759 1.371619 1.343616
 1.332551 1.356569 1.346532 1.441252 1.454175 1.313080
 S.D.: 0.105905 0.058623 0.058003 0.109751 0.093064 0.070504
 0.081497 0.069400 0.072806 0.107566 0.121013 0.170053
 0 EXISTING SITE NO. 19 RAIN ESCANDALOSA (ESC)
 ORIGINAL SITE NO. 12
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN: 5.162 3.118 2.760 7.653 15.006 13.799 13.618 12.606 11.381 13.887 17.772 13.273
 S.D.: 3.808 2.267 2.270 6.221 4.123 4.882 5.471 3.446 3.030 4.534 8.052 8.241
 OLOG TRANSFORMED DATA
 MEAN: 1.169754 1.112428 1.099830 1.224524 1.392047 1.367867
 1.361695 1.349169 1.325799 1.370838 1.427836 1.342118
 S.D.: 0.093177 0.066261 0.070202 0.134392 0.072704 0.086140
 0.100418 0.066430 0.060276 0.078617 0.114343 0.144246
 0 EXISTING SITE NO. 20 RAIN LOS CANONES (CAN)
 ORIGINAL SITE NO. 19
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN: 4.065 1.853 1.523 4.259 11.868 11.110 10.214 11.143 14.302 14.327 14.021 8.353
 S.D.: 3.371 1.345 1.510 3.079 3.193 3.902 4.466 4.128 4.779 4.704 6.354 5.522
 OLOG TRANSFORMED DATA
 MEAN: 1.136561 1.071201 1.058193 1.144655 1.335231 1.317197
 1.295366 1.316969 1.377370 1.378428 1.366504 1.244521
 S.D.: 0.098706 0.047071 0.052653 0.089204 0.063043 0.079584
 0.094405 0.084603 0.084700 0.080830 0.109004 0.128906
 0 EXISTING SITE NO. 21 RAIN HODGES HILL (HHI)
 ORIGINAL SITE NO. 16
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN: 1.409 0.506 0.570 3.606 9.927 11.010 9.075 10.673 10.680 14.344 10.975 4.345
 S.D.: 1.653 0.717 0.651 3.030 3.199 3.843 2.231 3.200 3.207 3.613 3.507 3.481
 OLOG TRANSFORMED DATA
 MEAN: 1.053169 1.020490 1.023287 1.124120 1.293898 1.315171
 1.277477 1.310196 1.310176 1.381655 1.315609 1.145320
 S.D.: 0.057768 0.027809 0.025532 0.088971 0.069430 0.079561
 0.051130 0.067588 0.068997 0.064231 0.072969 0.097258
 0 EXISTING SITE NO. 22 RAIN HUMEDAD (HUM)
 ORIGINAL SITE NO. 27
 TOTAL NO. OF DATA POINTS 1080
 ONON TRANSFORMED DATA
 MEAN: 3.126 1.557 1.719 4.627 10.602 10.304 8.687 9.456 10.801 12.644 14.359 9.082
 S.D.: 2.419 1.090 1.364 3.329 3.130 3.366 3.100 3.004 2.456 3.685 5.602 6.344
 OLOG TRANSFORMED DATA
 MEAN:
 1.111839 1.061037 1.066129 1.154656 1.308958 1.301657
 1.265859 1.284035 1.315003 1.349333 1.375798 1.258008

S.D.:
 0.071567 0.038773 0.048135 0.094337 0.065404 0.071740
 0.069662 0.065701 0.052119 0.069685 0.096155 0.138895

0 EXISTING SITE NO. 23 RAIN GUACHA (GUA)
 ORIGINAL SITE NO. 15
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:
 3.267 1.433 1.341 4.999 9.968 9.153 8.965 10.092 10.046 12.505 14.376 9.660

S.D.:
 2.849 1.239 1.204 3.364 3.133 2.686 3.154 3.504 3.526 4.043 6.531 7.880

OLOG TRANSFORMED DATA

MEAN:
 1.113998 1.055826 1.052366 1.165819 1.294823 1.277988
 1.271824 1.296666 1.295377 1.345669 1.371846 1.264242

S.D.:
 0.084638 0.043869 0.043834 0.093230 0.069814 0.060696
 0.073695 0.074043 0.076056 0.075113 0.114383 0.155242

0 EXISTING SITE NO. 24 RAIN LAS CASCADAS (CAS)
 ORIGINAL SITE NO. 17
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:
 1.321 0.627 0.910 3.481 11.062 11.662 9.596 11.399 11.510 13.874 12.282 4.755

S.D.:
 1.541 0.700 0.832 2.835 3.212 4.035 3.197 3.174 3.910 4.467 3.774 3.233

OLOG TRANSFORMED DATA

MEAN:
 1.050394 1.025522 1.036603 1.121164 1.318646 1.328505
 1.286435 1.325704 1.325582 1.370724 1.341871 1.159129

S.D.:
 0.053446 0.027031 0.031994 0.084192 0.064633 0.078298
 0.070722 0.063615 0.078296 0.078363 0.072529 0.091173

0 EXISTING SITE NO. 25 RAIN EMPIRE HILLS (EMH)
 ORIGINAL SITE NO. 11
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:
 1.144 0.592 0.478 3.385 10.170 10.366 9.146 9.622 10.724 13.345 11.731 4.587

S.D.:
 1.354 0.684 0.589 2.645 3.161 3.765 3.062 2.861 3.504 4.501 3.921 3.333

OLOG TRANSFORMED DATA

MEAN:
 1.044265 1.024132 1.019630 1.118937 1.299528 1.301836
 1.276462 1.288234 1.310348 1.360196 1.330470 1.153724

S.D.:
 0.047568 0.026568 0.023326 0.079932 0.066745 0.077643
 0.070197 0.062417 0.072853 0.083365 0.074741 0.092550

0 EXISTING SITE NO. 26 RAIN RIO PIEDRAS (RPD)
 ORIGINAL SITE NO. 23
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:
 1.504 1.339 1.115 3.784 10.358 10.750 10.398 10.130 11.621 12.530 11.052 6.519

S.D.:
 1.898 1.718 1.195 3.536 4.748 4.920 4.634 3.870 3.405 4.356 4.065 6.287

OLOG TRANSFORMED DATA

MEAN:
 1.055858 1.050310 1.043587 1.126903 1.296647 1.305081
 1.298666 1.295826 1.329502 1.344562 1.315752 1.191069

S.D.:
 0.063186 0.058819 0.044220 0.101102 0.103670 0.101685
 0.097512 0.083740 0.068475 0.085063 0.080014 0.148416

0 EXISTING SITE NO. 27 RAIN SANTA ROSA (SRO)
 ORIGINAL SITE NO. 26
 TOTAL NO. OF DATA POINTS 1080

ONON TRANSFORMED DATA

MEAN:
 1.606 0.760 0.944 4.757 9.808 12.392 11.000 11.987 12.640 13.897 12.244 5.853

S.D.:
 2.136 1.101 0.760 3.851 2.640 5.070 2.206 3.668 3.310 4.807 3.294 4.806

OLOG TRANSFORMED DATA

MEAN:
 1.058649 1.029849 1.038181 1.156430 1.292770 1.339465
 1.319818 1.336168 1.350123 1.369941 1.342655 1.181940

S.D.:

0.069101	0.040152	0.029397	0.101130	0.060553	0.095469				
0.045756	0.072217	0.064891	0.084930	0.062306	0.123241				
CORRELATION									
0	OSITE NO. 1								
0	LAG ONE CORRELATION =0.053962								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 2								
0	LAG ONE CORRELATION =0.093152								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 3								
0	LAG ONE CORRELATION =0.076675								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 4								
0	LAG ONE CORRELATION =0.088223								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 5								
0	LAG ONE CORRELATION =0.029960								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 6								
0	LAG ONE CORRELATION =0.089796								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 7								
0	LAG ONE CORRELATION =0.076328								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 8								
0	LAG ONE CORRELATION =0.094971								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 9								
0	LAG ONE CORRELATION =0.114796								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 10								
0	LAG ONE CORRELATION =0.097579								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 11								
0	LAG ONE CORRELATION =0.097017								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 12								
0	LAG ONE CORRELATION =0.039195								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 13								
0	LAG ONE CORRELATION =0.114826								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 14								
0	LAG ONE CORRELATION =0.123090								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 15								
0	LAG ONE CORRELATION =0.125787								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 16								
0	LAG ONE CORRELATION =0.200171								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 17								
0	LAG ONE CORRELATION =0.179944								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 18								
0	LAG ONE CORRELATION =0.088167								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 19								
0	LAG ONE CORRELATION =0.062611								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 20								
0	LAG ONE CORRELATION =0.269537								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 21								
0	LAG ONE CORRELATION =0.081593								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 22								
0	LAG ONE CORRELATION =0.145988								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 23								
0	LAG ONE CORRELATION =0.070123								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 24								
0	LAG ONE CORRELATION =0.215595								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 25								
0	LAG ONE CORRELATION =0.096496								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 26								
0	LAG ONE CORRELATION =0.218531								
0	NO. OF DATA POINTS USED = 1079.								
0	OSITE NO. 27								
0	LAG ONE CORRELATION =0.114173								
0	NO. OF DATA POINTS USED = 1079.								
SPATIAL CORRELATION MATRIX									
FILLED TRANSFORMED DATA SET									
ALL SITES IN FINAL DATA SET									
1.000	0.434	0.508	0.568	0.443	0.358	0.590	0.433	0.381	0.506
0.504	0.297	0.417	0.472	0.535	0.469	0.397	0.521	0.496	0.539
0.420	0.511	0.403	0.463	0.711	0.394	0.693	0.114	0.061	0.102
0.043	0.068	0.154	0.096	0.171	0.076	0.121	0.163	0.051	0.104
0.078	0.123	0.107	0.121	0.044	0.174	0.125	0.101	0.073	0.137
0.077	0.110	0.173	0.134						
0.000	1.000	0.416	0.442	0.421	0.413	0.420	0.470	0.516	0.474
0.465	0.523	0.443	0.489	0.686	0.559	0.587	0.458	0.450	0.507
0.311	0.450	0.380	0.397	0.410	0.412	0.496	0.043	0.219	-0.002
0.058	0.063	0.047	-0.004	0.043	0.124	0.083	0.092	0.196	0.111
0.088	0.075	0.151	0.189	-0.003	0.105	0.092	0.004	0.029	-0.027
0.054	0.014	0.159	0.075						
0.000	0.000	1.000	0.710	0.416	0.465	0.811	0.402	0.342	0.344
0.486	0.283	0.471	0.418	0.451	0.410	0.380	0.477	0.483	0.470
0.320	0.427	0.662	0.403	0.663	0.383	0.503	0.072	0.077	0.096
0.072	0.095	0.108	0.084	0.120	0.091	0.050	0.101	0.072	0.085

0.102	0.079	0.095	0.111	0.007	0.159	0.078	0.130	0.055	0.037
0.104	0.063	0.113	0.056						
0.000	0.000	0.000	1.000	0.400	0.469	0.720	0.402	0.430	0.382
0.438	0.319	0.478	0.421	0.406	0.410	0.389	0.443	0.458	0.436
0.343	0.444	0.563	0.374	0.697	0.387	0.523	0.051	0.075	0.096
0.216	0.084	0.146	0.097	0.188	0.124	0.070	0.126	0.066	0.137
0.082	0.038	0.123	0.115	0.039	0.154	0.070	0.110	0.073	0.091
0.088	0.016	0.164	0.024						
0.000	0.000	0.000	0.000	1.000	0.595	0.373	0.503	0.515	0.611
0.529	0.411	0.657	0.589	0.387	0.544	0.486	0.642	0.492	0.479
0.566	0.665	0.291	0.719	0.477	0.326	0.463	0.040	0.068	0.019
0.001	0.070	0.140	0.066	0.109	0.048	0.071	0.068	-0.020	0.070
0.091	0.043	0.038	0.078	0.053	0.079	0.079	0.114	0.053	0.045
0.115	0.005	0.094	0.052						
0.000	0.000	0.000	0.000	0.000	1.000	0.428	0.620	0.449	0.485
0.622	0.338	0.706	0.513	0.426	0.451	0.465	0.567	0.491	0.457
0.529	0.605	0.345	0.597	0.466	0.345	0.417	0.112	0.103	0.054
0.081	0.082	0.146	0.087	0.177	0.076	0.082	0.125	-0.017	0.105
0.073	0.123	0.086	0.054	0.098	0.153	0.098	0.123	0.117	0.067
0.107	0.044	0.133	0.112						
0.000	0.000	0.000	0.000	0.000	1.000	0.367	0.313	0.351	
0.416	0.271	0.419	0.361	0.413	0.341	0.331	0.458	0.476	0.398
0.311	0.399	0.721	0.364	0.626	0.409	0.520	0.091	0.061	0.090
0.062	0.081	0.101	0.082	0.137	0.083	0.054	0.128	0.072	0.102
0.081	0.051	0.121	0.104	0.034	0.142	0.125	0.078	0.052	0.066
0.071	0.075	0.159	0.081						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.468	0.489
0.686	0.347	0.567	0.431	0.498	0.476	0.463	0.521	0.498	0.487
0.450	0.514	0.323	0.529	0.380	0.266	0.420	0.134	0.127	0.128
0.132	0.134	0.204	0.137	0.269	0.100	0.125	0.190	0.041	0.160
0.081	0.114	0.135	0.114	0.123	0.143	0.144	0.149	0.125	0.146
0.133	0.098	0.191	0.104						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.551
0.445	0.769	0.508	0.586	0.516	0.801	0.777	0.483	0.468	0.569
0.532	0.556	0.334	0.552	0.406	0.335	0.464	0.008	0.080	0.016
0.039	0.026	0.058	0.023	0.074	0.063	0.089	0.085	0.108	0.052
0.050	0.057	0.034	0.059	0.065	0.058	-0.004	0.034	0.067	0.071
-0.009	0.018	0.133	-0.003						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
0.446	0.532	0.470	0.691	0.466	0.520	0.526	0.617	0.500	0.492
0.605	0.681	0.292	0.615	0.423	0.281	0.502	0.014	0.069	0.022
-0.033	0.080	0.054	0.030	0.083	0.055	0.088	0.075	0.059	0.037
0.053	0.070	0.055	0.066	0.022	0.065	0.060	0.063	0.029	0.052
0.051	-0.034	0.133	0.029						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.000	0.355	0.630	0.470	0.474	0.469	0.468	0.552	0.574	0.454
0.434	0.520	0.359	0.501	0.476	0.306	0.454	0.083	0.119	0.081
0.067	0.096	0.147	0.091	0.155	0.077	0.103	0.180	0.052	0.099
0.079	0.097	0.090	0.115	0.070	0.104	0.110	0.132	0.104	0.098
0.111	0.047	0.151	0.063						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	1.000	0.431	0.549	0.444	0.679	0.742	0.453	0.401	0.474
0.451	0.503	0.317	0.483	0.379	0.333	0.415	0.042	0.086	0.015
0.019	0.042	0.043	0.024	0.064	0.095	0.120	0.098	0.200	0.085
0.145	0.065	0.060	0.088	0.079	0.084	0.025	0.084	0.090	0.044
0.055	0.057	0.139	0.062						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.000	0.524	0.448	0.505	0.504	0.603	0.587	0.513
0.511	0.634	0.343	0.620	0.468	0.323	0.471	0.056	0.069	0.025
0.037	0.048	0.138	0.055	0.137	0.067	0.078	0.133	0.071	0.126
0.085	0.075	0.063	0.077	0.067	0.105	0.091	0.093	0.088	0.073
0.080	0.032	0.116	0.083						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.000	0.511	0.536	0.548	0.601	0.513	0.521	
0.603	0.662	0.354	0.657	0.494	0.344	0.549	0.041	0.100	0.038
0.007	0.084	0.072	0.012	0.062	0.063	0.062	0.104	0.089	0.054
0.123	0.081	0.049	0.062	0.050	0.075	0.065	0.045	0.077	0.022
0.039	0.059	0.153	0.041						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	1.000	0.588	0.572	0.454	0.470	0.698	
0.403	0.482	0.403	0.446	0.443	0.344	0.603	0.073	0.110	0.071
0.065	0.080	0.109	0.067	0.109	0.076	0.049	0.104	0.077	0.090
0.073	0.115	0.082	0.090	0.055	0.088	0.078	0.045	0.077	0.085
0.049	0.057	0.131	0.049						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	1.000	0.846	0.523	0.490	0.683	

0.488	0.531	0.375	0.541	0.478	0.357	0.534	-0.013	0.049	0.030
0.003	0.003	0.070	0.021	0.052	0.015	0.012	0.065	0.029	0.035
0.016	0.065	0.039	0.048	0.031	0.044	-0.006	0.036	0.018	0.072
-0.011	0.000	0.119	-0.018						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	1.000	0.503	0.472	0.621	
0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.647	0.486	
0.490	0.543	0.385	0.547	0.440	0.339	0.495	0.021	0.082	0.016
0.017	0.029	0.074	0.024	0.067	0.060	0.066	0.083	0.090	0.050
0.059	0.078	0.071	0.097	0.083	0.062	0.021	0.056	0.073	0.047
0.000	0.011	0.107	0.025						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.057	0.037
0.558	0.766	0.366	0.649	0.533	0.333	0.495	0.111	0.072	0.056
-0.010	0.054	0.094	0.068	0.103	0.046	0.046	0.077	0.065	0.086
0.050	0.043	0.078	0.090	0.098	0.096	0.049	0.077		
0.059	0.060	0.126	0.052						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.496
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.016	
0.489	0.580	0.404	0.537	0.513	0.356	0.492	0.031	0.076	0.061
-0.006	0.040	0.087	0.051	0.075	0.075	0.058	0.072	0.073	0.088
0.054	0.063	0.075	0.091	0.056	0.115	0.059	0.072		
0.073	0.034	0.125	0.033						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	
0.485	0.529	0.397	0.498	0.509	0.332	0.637	0.072	0.078	0.069
0.058	0.080	0.124	0.062	0.097	0.055	0.043	0.098	0.067	0.093
0.053	0.090	0.077	0.092	0.065	0.084	0.095	0.073	0.076	0.051
0.067	0.054	0.109	0.051						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.000	0.685	0.278	0.736	0.401	0.303	0.438	0.087	0.069	0.079
0.042	0.073	0.072	0.088	0.072	0.064	0.084	0.085	0.070	0.059
0.060	0.062	0.064	0.084	0.083	0.108	0.068	0.076	0.088	0.105
0.067	0.054	0.142	0.045						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.069
0.000	1.000	0.323	0.771	0.506	0.309	0.516	0.074	0.076	0.080
0.044	0.059	0.098	0.087	0.098	0.054	0.071	0.108	0.076	0.076
0.076	0.071	0.074	0.084	0.085	0.104	0.103	0.093	0.090	0.076
0.083	0.059	0.118	0.069						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.034	0.053
0.000	1.000	0.302	0.552	0.540	0.477	0.050	0.050	0.046	0.056
0.040	0.063	0.043	0.065	0.041	0.024	0.043	0.064	0.022	0.037
0.056	0.032	0.028	0.044	0.030	0.081	0.022	0.054		
0.043	0.047	0.054	0.051						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.076	0.068
0.000	0.000	0.000	1.000	0.444	0.296	0.465	0.080	0.075	0.074
0.027	0.078	0.090	0.088	0.102	0.047	0.094	0.081	0.089	0.084
0.087	0.058	0.054	0.083	0.077	0.085	0.069	0.081		
0.088	0.050	0.124	0.049						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.044	0.019
0.000	0.000	0.000	0.000	1.000	0.403	0.647	0.076	0.069	0.039
0.016	0.027	0.059	0.022	0.057	0.028	0.035	0.072	0.069	0.039
0.060	0.031	0.064	0.072	0.043	0.075	0.045	0.087	0.036	0.039
0.038	0.077	0.139	0.071						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	1.000	0.353	0.072	0.073	0.040	
0.047	0.036	0.031	0.065	0.032	0.039	0.029	0.041	0.047	0.049
0.042	0.018	0.025	0.060	0.051	0.073	0.001	0.053	0.053	0.071
0.043	0.064	0.093	0.043						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.076	0.031
0.000	0.000	0.000	0.000	0.000	1.000	0.048	0.076		
0.022	0.052	0.060	0.035	0.074	0.039	0.028	0.082	0.089	0.062
0.054	0.054	0.084	0.108	0.042	0.055	0.057	0.053	0.041	0.096
0.038	0.046	0.163	0.054						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.435	0.509
0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.298	0.418	
0.569	0.443	0.359	0.591	0.433	0.382	0.507	0.504	0.421	0.512
0.473	0.536	0.470	0.398	0.521	0.497	0.540		0.464	0.403
0.464	0.712	0.394	0.694						

0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	1.000							

INPUT FILE
STREAMFLOW
FILL-IN PROGRAM

GATUN WATERSHED

FILLING MISSING FLOW DATA

	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	60	12	1973	1941	6	6	6	6	6	6	6	6	6
FLOW	CIRI GRANDE AT LOS CANONES (CAN)													
FLOW	PEQUENI RIVER AT CANDELARIA (CDL)													
FLOW	CHAGRES RIVER AT CHICO (CHI)													
FLOW	TRINIDAD RIVER AT EL CHORRO (CHR)													
FLOW	GATUN RIVER AT CIENTO (CNT)													
FLOW	BOQUERON RIVER AT PELUCA (PEL)													
	6	1	2	3	4	5	6							
0														
1941	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1942	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1943	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1944	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1945	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1946	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1947	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948	4.3	1.6	1.2	0.9	1.9	2.7	10.5	12.3	11.7	10.8	22.1	5.9		
1949	2.4	1.4	0.9	0.8	2.6	15.0	10.4	13.1	18.7	17.7	31.2	24.5		
1950	4.0	2.2	1.3	0.9	7.0	13.2	13.7	20.3	13.3	18.3	23.9	24.0		
1951	7.3	4.0	2.2	1.4	7.2	8.9	8.2	9.0	15.5	13.1	19.9	11.3		
1952	4.8	2.2	1.2	1.0	4.0	10.6	8.1	8.6	14.8	21.5	13.3	19.0		
1953	14.1	5.3	2.7	1.9	8.6	7.7	7.4	6.1	7.6	22.5	22.6	12.1		
1954	6.0	2.7	1.7	1.4	6.8	7.2	17.5	13.1	18.0	15.2	29.3	15.2		
1955	16.4	4.9	2.4	1.9	3.8	15.3	10.8	18.1	22.2	19.1	29.6	16.8		
1956	17.0	5.1	2.9	2.7	10.5	15.4	14.5	10.7	17.4	26.4	18.5	10.5		
1957	4.1	2.0	1.3	0.9	4.2	4.2	4.1	8.3	9.1	21.4	13.9	11.1		
1958	6.8	5.2	2.7	1.9	6.2	7.5	10.5	14.2	13.8	18.2	14.7	7.6		
1959	-1.0	2.0	1.4	1.2	1.9	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1960	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1961	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1962	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1963	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1964	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1965	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1966	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1967	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1968	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1971	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1972	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1973	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1974	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1975	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1976	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1977	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1978	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1979	5.1	3.9	3.5	4.0	6.5	10.7	10.6	15.9	19.4	19.0	6.3	5.5		
1980	10.7	3.7	2.0	1.4	5.4	10.9	8.0	19.2	9.0	15.4	15.6	12.6		
1981	11.4	9.2	7.4	13.1	21.2	22.8	20.7	14.8	14.6	21.9	21.0	19.8		
1982	7.9	3.5	2.3	2.6	4.6	7.5	6.3	4.7	8.7	17.1	12.6	3.8		
1983	2.4	1.5	0.9	0.5	4.4	5.7	4.1	5.3	17.2	12.7	12.4	15.7		
1984	-1.0	-1.0	2.3	1.4	6.4	12.2	10.9	17.1	16.7	17.4	-1.0	11.4		
1985	-1.0	-1.0	1.3	0.9	2.5	7.1	3.1	12.6	20.8	14.9	-1.0	-1.0		
1986	4.0	2.1	1.4	4.1	5.9	12.7	8.4	6.7	9.8	25.8	-1.0	-1.0		
1987	2.8	1.9	1.1	1.7	5.3	5.4	7.7	12.8	14.0	24.3	10.1	8.0		
1988	2.8	1.7	0.9	0.9	4.1	8.0	8.6	15.1	17.0	21.3	16.5	9.5		
1989	6.7	3.5	2.3	1.2	4.8	5.5	10.1	14.7	13.7	16.0	16.2	10.5		
1990	5.8	3.0	2.2	1.3	5.2	7.7	10.1	10.5	19.4	29.2	18.8	16.2		
1991	3.8	1.9	2.4	1.2	4.6	6.1	4.7	5.6	11.0	18.0	14.2	11.3		
1992	3.3	1.7	1.2	1.6	6.5	11.6	8.3	13.2	15.1	12.3	11.3	7.3		
1993	4.4	2.9	2.1	2.0	4.9	10.3	7.5	6.3	13.8	14.6	22.0	12.6		
1994	4.6	2.2	1.6	1.4	5.0	8.0	5.8	4.5	9.7	13.9	14.3	5.0		
1995	2.9	1.6	1.0	1.3	7.8	12.8	10.3	11.2	11.6	13.0	12.6	8.6		
1996	22.6	6.9	5.1	2.7	7.9	12.0	18.0	22.3	17.5	23.0	15.5	14.7		
1997	5.6	3.3	1.7	1.2	2.0	3.6	2.9	2.4	6.0	7.9	9.6	4.1		
1998	2.3	1.6	0.7	0.9	2.6	4.7	8.4	6.8	9.6	15.3	8.8	13.3		
1999	6.8	3.5	2.6	2.9	9.2	13.2	8.8	20.9	27.3	13.2	20.4	26.7		
2000	11.6	4.2	2.2	1.8	7.2	16.4	9.6	9.9	12.4	9.5	12.5	10.1		
1941	6.3	11.1	9.2	4.3	12.1	23.8	15.5	21.3	14.4	35.7	27.2	18.0		
1942	7.3	5.4	6.8	13.6	12.5	21.9	17.6	16.5	19.5	24.7	13.6	15.8		
1943	12.7	7.8	4.9	7.2	14.9	22.5	15.8	20.3	17.6	16.1	15.5	37.4		

1944	9.3	9.2	3.8	5.7	20.9	15.0	20.9	24.4	16.4	24.6	26.4	54.1
1945	11.2	5.7	3.8	3.4	13.3	16.8	17.6	20.4	15.8	14.0	13.2	28.9
1946	5.4	3.8	2.6	3.7	12.9	17.2	27.5	16.1	15.9	15.4	11.8	34.4
1947	9.6	5.6	3.1	5.0	8.4	18.3	22.4	21.3	17.2	14.9	14.8	20.4
1948	6.6	3.5	2.3	2.3	7.2	12.2	20.3	15.1	17.1	15.9	17.9	10.1
1949	5.6	3.2	2.0	3.3	10.8	22.6	24.3	21.1	19.5	21.4	21.5	25.0
1950	7.5	7.4	4.2	8.8	22.3	16.2	38.1	25.9	16.6	13.0	21.9	31.4
1951	9.0	21.2	10.9	8.8	15.2	15.3	13.9	14.6	15.5	14.4	12.6	18.5
1952	8.0	4.8	2.7	3.5	12.1	11.6	19.2	24.2	18.0	23.0	14.8	23.7
1953	17.5	10.4	4.6	5.3	19.3	11.8	13.3	13.1	11.8	12.5	19.3	14.4
1954	6.7	4.8	4.4	6.4	13.6	16.5	17.8	19.2	15.0	10.8	27.8	29.2
1955	24.2	6.3	5.2	4.2	9.1	7.4	19.6	26.6	13.3	9.3	35.2	16.8
1956	23.4	9.4	9.2	9.3	24.2	17.8	23.5	15.1	14.9	13.0	28.0	22.0
1957	6.3	4.5	3.5	3.0	7.1	8.5	7.3	9.6	9.0	14.3	27.1	19.6
1958	19.7	7.5	6.0	4.1	8.9	9.5	16.3	12.8	18.3	14.3	19.3	13.5
1959	6.1	4.1	3.1	4.7	10.6	14.3	13.8	14.2	24.6	17.0	34.2	42.1
1960	19.0	5.6	4.6	15.9	17.4	16.8	15.8	12.9	11.8	12.7	19.4	38.7
1961	6.6	4.4	3.3	5.2	9.9	5.2	14.3	16.1	11.7	18.3	14.9	12.1
1962	5.7	4.3	3.3	4.0	12.9	11.8	22.7	21.5	16.3	15.8	18.0	13.5
1963	17.1	6.8	4.3	8.3	23.4	18.9	19.7	21.8	18.0	11.5	16.7	8.7
1964	4.7	3.4	3.0	5.8	14.3	22.2	17.1	15.9	13.5	12.3	17.1	8.8
1965	7.5	4.8	3.7	3.0	10.5	21.8	15.9	11.9	18.0	17.6	24.5	23.1
1966	11.1	5.8	4.3	15.7	19.0	15.0	13.6	13.9	17.6	15.6	44.6	35.3
1967	11.4	6.1	5.5	13.8	23.1	20.2	22.9	15.4	15.0	12.0	23.4	21.6
1968	5.9	4.8	5.4	6.6	17.7	15.3	17.8	17.2	17.4	16.0	14.6	11.3
1969	6.7	5.0	4.2	7.2	14.5	8.4	13.6	17.5	15.0	10.1	13.4	41.7
1970	36.8	4.3	8.3	20.8	24.7	12.9	14.8	18.0	17.1	19.4	20.2	41.8
1971	13.3	6.8	-1.0	-1.0	10.4	18.3	27.4	15.0	11.6	13.0	14.1	9.0
1972	39.1	7.1	4.2	7.0	15.3	15.0	12.4	10.5	18.5	17.0	16.1	12.4
1973	6.0	3.6	1.6	1.3	10.3	11.4	17.7	17.5	12.0	12.0	26.5	17.6
1974	9.7	4.4	3.1	1.9	5.9	9.6	13.4	14.0	10.3	13.4	20.1	12.5
1975	4.6	3.1	2.5	1.8	14.0	17.8	20.9	29.3	18.7	17.8	22.3	28.5
1976	9.1	5.0	4.4	6.7	10.2	10.7	7.6	7.7	10.6	15.1	22.0	6.3
1977	5.9	3.9	2.9	3.1	5.2	6.9	11.1	17.4	13.8	24.7	18.7	19.7
1978	6.4	5.8	4.4	12.6	23.6	17.1	15.3	20.1	14.5	13.4	16.1	9.6
1979	4.2	3.7	2.7	10.8	10.0	14.8	11.5	13.1	9.9	13.5	17.7	26.3
1980	15.4	9.5	4.8	4.5	13.2	20.7	10.6	10.9	9.3	13.7	14.1	18.1
1981	12.4	7.9	6.5	44.0	20.4	13.6	23.4	15.8	9.8	16.0	19.7	30.1
1982	12.9	6.1	4.0	5.3	8.2	8.6	17.6	17.2	13.6	23.0	14.2	8.6
1983	6.7	3.8	2.9	6.5	17.6	14.8	13.8	12.5	13.7	19.1	18.3	45.1
1984	8.7	5.9	3.3	2.1	6.3	13.3	16.1	20.9	13.5	15.8	17.7	13.3
1985	6.0	4.0	3.8	2.9	11.4	17.5	12.2	11.1	17.7	16.2	14.5	22.3
1986	5.9	3.2	2.7	12.3	23.2	19.1	17.6	15.3	21.6	14.9	19.7	7.6
1987	4.2	4.4	2.6	15.7	37.8	20.1	16.8	21.5	22.9	16.8	25.7	12.0
1988	4.3	4.6	2.8	2.0	8.3	7.8	26.6	30.2	10.9	18.4	15.5	13.1
1989	7.1	7.1	4.1	2.6	10.0	16.3	22.5	21.8	13.4	20.6	23.8	13.5
1990	14.0	7.4	6.0	5.0	21.8	11.7	11.5	20.8	16.0	20.1	17.4	14.2
1991	5.5	3.4	4.7	3.3	19.5	10.8	8.9	12.9	26.4	12.8	31.7	12.6
1992	6.0	3.4	2.8	7.9	31.9	18.2	17.4	26.5	19.3	11.9	19.9	16.0
1993	11.4	5.9	6.9	17.8	15.0	16.7	12.9	10.4	17.3	26.4	21.1	18.7
1994	7.1	4.8	2.9	2.7	14.0	22.5	15.0	24.9	14.0	12.5	25.0	9.2
1995	6.2	3.6	2.2	5.1	12.9	18.6	25.1	13.3	13.2	11.8	18.5	29.8
1996	30.9	10.2	11.1	8.1	24.2	19.8	15.9	15.3	11.8	12.1	34.7	34.9
1997	6.4	7.6	4.3	2.9	14.3	15.1	10.3	9.5	9.0	10.7	8.3	3.9
1998	2.8	2.6	1.2	6.4	12.5	9.7	18.0	20.2	15.8	11.8	10.4	24.7
1999	14.9	11.0	10.6	16.3	18.4	20.3	22.8	-1.0	-1.0	15.0	17.4	57.1
2000	19.7	10.1	7.3	-1.0	15.7	23.3	16.5	17.2	15.7	17.8	16.1	29.6
1941	15.0	22.1	17.5	11.9	22.2	37.3	28.1	37.5	40.4	75.6	66.9	43.4
1942	21.2	15.9	15.9	24.8	17.9	29.7	33.1	32.2	39.1	52.2	40.8	34.6
1943	28.8	20.5	15.8	17.0	33.6	35.4	27.3	31.9	31.6	45.4	41.1	76.6
1944	26.7	20.2	10.7	17.8	37.7	31.1	42.0	42.9	37.5	56.3	53.5	89.1
1945	29.4	17.8	11.2	11.4	25.3	28.9	30.7	40.2	36.1	34.8	31.4	65.6
1946	19.8	14.4	9.8	12.7	24.1	27.7	39.6	42.8	34.9	30.8	25.5	58.7
1947	19.9	13.6	8.6	9.5	13.9	22.9	32.2	33.7	28.5	32.1	35.6	39.3
1948	16.6	9.0	6.3	6.1	14.2	23.7	40.0	31.5	26.6	38.9	45.8	29.5
1949	15.0	9.4	6.9	7.2	23.5	39.1	51.0	48.3	38.3	45.0	61.3	53.5
1950	20.6	17.1	10.8	20.0	40.4	30.1	53.9	45.8	32.9	26.2	50.8	60.1
1951	19.7	43.2	23.2	19.4	25.8	30.5	33.2	24.8	28.7	24.8	28.9	28.2
1952	18.4	12.4	9.0	10.6	24.1	23.8	31.5	38.2	35.0	49.4	31.5	53.2
1953	41.4	27.0	14.0	12.5	37.6	27.6	32.6	31.4	28.1	33.6	39.6	34.3
1954	18.3	13.7	12.4	12.8	21.7	34.6	34.7	39.0	38.1	25.0	64.2	63.2
1955	64.8	18.3	12.7	10.2	15.3	17.5	28.3	48.7	31.4	28.5	77.0	44.0
1956	62.4	21.7	19.2	19.8	43.4	37.2	63.9	34.1	35.7	44.6	86.3	41.5
1957	17.5	11.6	8.2	6.9	13.1	12.7	11.9	13.9	18.2	30.6	49.0	33.0
1958	32.8	14.8	10.7	7.3	17.6	21.2	22.1	25.2	27.0	27.7	33.3	27.2
1959	12.7	8.6	6.7	9.7	17.9	17.5	16.4	18.4	32.1	33.2	54.9	89.5

1960	53.9	12.3	8.9	21.4	27.4	29.6	30.8	29.1	30.2	34.3	35.6	94.0
1961	18.4	10.1	8.2	11.9	18.5	43.1	26.8	33.5	31.5	37.7	45.0	28.4
1962	17.6	11.2	9.0	9.5	27.6	20.2	33.0	44.1	38.1	36.4	40.6	31.7
1963	37.8	19.3	12.9	27.3	39.0	41.3	47.7	45.7	49.4	37.7	43.9	25.3
1964	15.4	12.1	9.9	16.9	26.9	45.5	28.0	26.4	31.7	27.9	39.2	22.2
1965	18.2	14.1	11.9	10.7	23.7	33.1	23.2	30.7	40.3	50.8	50.1	51.4
1966	25.9	16.8	12.6	34.7	41.0	32.7	34.0	30.4	38.1	42.3	-1.0	77.1
1967	33.9	19.9	13.4	31.2	43.0	49.5	44.8	33.9	35.3	30.5	36.1	37.1
1968	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1969	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1970	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1971	43.6	-1.0	-1.0	-1.0	-1.0	-1.0	46.4	38.7	33.2	31.1	39.3	21.6
1972	57.4	14.6	10.3	25.8	17.6	21.7	14.1	25.3	19.7	31.7	34.0	19.9
1973	11.9	8.4	5.6	5.1	16.3	28.4	28.3	32.3	28.3	36.1	60.4	46.0
1974	27.2	13.2	9.7	7.5	13.0	16.8	21.9	31.3	31.3	42.8	39.7	26.7
1975	12.1	7.5	5.1	-1.0	-1.0	28.8	44.8	52.0	34.7	46.6	58.0	58.0
1976	25.8	14.0	11.2	12.7	19.9	18.5	12.9	15.0	22.3	39.8	42.6	17.9
1977	15.8	11.0	8.2	8.2	14.7	17.1	22.5	28.8	26.7	56.3	45.2	33.1
1978	13.8	11.7	8.4	26.6	28.2	39.8	46.7	48.8	32.4	34.6	42.6	23.5
1979	12.1	8.9	6.9	17.8	17.1	23.7	27.3	36.7	31.7	28.5	42.8	41.1
1980	30.8	18.5	10.1	10.7	22.3	29.3	17.9	21.2	23.5	30.4	43.6	39.6
1981	23.2	17.7	14.4	100.6	46.3	37.2	40.0	38.9	27.9	33.1	40.7	61.6
1982	32.1	14.6	9.2	12.3	22.0	19.2	32.7	31.1	29.5	45.9	31.9	20.4
1983	15.3	8.5	6.2	5.4	36.6	22.2	19.6	21.6	27.7	34.3	40.0	76.5
1984	25.6	15.5	8.9	6.3	18.7	30.3	39.1	67.8	48.4	55.1	55.8	35.1
1985	19.1	12.9	12.9	9.4	19.5	34.2	26.2	21.2	37.8	30.6	29.8	51.9
1986	17.7	11.8	12.1	21.9	49.3	30.6	25.3	22.0	36.6	57.6	-1.0	30.2
1987	13.3	12.6	8.2	28.5	55.9	36.0	36.4	44.2	51.5	39.7	60.6	29.8
1988	13.7	14.5	9.1	7.0	24.5	22.3	43.8	57.2	40.8	50.8	44.4	32.4
1989	20.6	19.9	12.1	8.6	17.2	31.9	34.4	37.8	32.3	58.5	67.4	36.2
1990	29.7	17.6	14.0	22.3	74.5	21.0	19.1	34.1	44.7	57.4	58.6	63.0
1991	19.6	12.7	15.4	11.8	31.4	21.9	22.8	23.0	33.3	33.4	57.3	33.6
1992	16.4	10.9	8.8	14.0	46.6	45.2	34.9	49.8	41.1	33.4	48.8	31.1
1993	25.3	12.2	17.0	26.8	36.3	47.8	36.1	25.8	37.7	58.1	40.7	26.5
1994	12.9	8.6	7.3	6.4	25.4	36.7	37.9	33.0	34.4	37.0	65.2	30.3
1995	15.4	8.3	4.8	6.1	19.1	36.4	43.6	41.3	28.7	31.0	38.5	50.0
1996	73.2	30.5	22.6	19.3	47.5	42.5	45.3	49.9	33.7	42.1	83.2	94.7
1997	29.0	16.8	9.1	7.8	31.3	26.8	16.2	13.5	18.4	24.6	21.9	21.6
1998	12.2	8.4	5.0	14.3	39.6	24.0	31.0	33.9	34.2	33.5	38.5	54.8
1999	30.8	24.0	14.8	17.5	25.7	36.2	45.3	53.8	44.3	40.5	52.1	126.7
2000	50.9	19.6	11.7	9.0	21.8	41.7	28.2	32.8	40.8	53.9	33.3	84.2
1941	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1942	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1943	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1944	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1945	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1946	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1947	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
1948	3.5	1.9	1.0	0.6	1.6	2.0	6.3	7.6	6.7	7.3	16.6	5.7
1949	2.3	1.0	0.6	0.5	1.8	10.3	9.7	10.5	15.9	13.0	23.0	17.1
1950	4.4	2.6	1.4	0.7	6.3	9.8	10.1	13.5	8.6	13.3	19.2	15.8
1951	5.0	3.4	1.7	1.2	5.7	6.2	7.1	9.0	11.2	9.7	12.0	7.8
1952	3.2	2.0	1.0	0.8	2.0	5.4	4.9	5.8	9.9	14.1	9.7	18.8
1953	7.5	3.4	1.7	1.2	6.7	6.2	5.7	4.2	5.9	11.5	11.9	6.4
1954	3.0	1.7	1.0	0.9	8.2	7.1	17.8	14.4	14.3	13.9	21.5	9.7
1955	10.1	3.2	1.6	1.1	2.1	8.2	7.0	11.0	13.0	15.2	21.9	10.9
1956	9.2	3.1	2.0	1.5	5.0	8.4	10.3	6.4	11.7	19.3	11.6	5.9
1957	2.6	1.5	0.9	0.5	2.2	2.6	2.5	5.2	5.4	13.7	9.9	5.4
1958	3.5	3.3	1.6	1.0	3.6	4.4	6.5	9.4	9.2	10.5	8.0	4.5
1959	2.4	1.3	0.7	0.6	1.1	2.7	2.8	3.6	4.3	13.4	9.2	11.7
1960	5.4	2.2	2.3	2.8	6.9	7.4	7.3	7.5	6.6	10.7	15.0	25.6
1961	4.0	2.0	1.1	1.2	2.1	5.4	4.7	5.3	8.6	13.5	11.8	9.5
1962	3.3	1.8	1.0	0.9	1.4	2.2	3.0	7.8	6.7	9.1	9.5	7.1
1963	2.8	1.8	1.0	2.1	4.6	5.6	6.8	8.9	9.0	12.9	14.6	4.6
1964	2.3	1.2	0.8	0.9	3.4	11.4	11.3	11.5	13.9	15.0	17.7	5.2
1965	4.0	1.9	1.1	0.6	1.0	2.0	1.8	4.2	3.3	7.0	8.8	9.4
1966	3.2	1.5	1.0	1.1	6.7	9.2	7.4	-1.0	-1.0	14.2	19.2	14.6
1967	4.5	2.2	1.1	1.8	5.5	13.4	10.0	11.0	14.8	17.2	11.3	5.2
1968	2.4	1.7	1.1	1.0	2.7	8.0	5.9	8.4	8.9	15.2	14.7	6.9
1969	2.9	1.6	0.8	1.3	2.7	5.6	-1.0	-1.0	-1.0	11.7	12.8	7.7
1970	6.2	2.7	2.3	2.4	7.5	4.9	5.6	12.4	10.4	15.8	12.4	26.4
1971	11.1	3.8	2.1	1.6	6.5	9.8	8.3	12.2	13.5	15.0	17.9	5.0
1972	3.3	2.2	1.3	3.7	3.1	5.8	2.5	3.6	8.6	8.7	-1.0	3.6
1973	2.0	1.2	0.6	0.6	2.4	10.3	10.7	8.5	15.5	17.3	20.7	9.9
1974	4.3	2.6	1.9	1.1	2.2	4.9	6.0	6.9	8.2	24.0	13.4	6.9
1975	3.0	1.7	1.1	0.7	2.0	4.0	5.9	11.6	16.3	18.1	28.1	14.6

1992	7.2	2.4	1.2	1.7	12.3	8.3	6.3	10.8	10.7	6.9	8.3	8.4
1993	5.5	4.3	4.6	5.7	4.0	6.7	9.9	5.6	9.9	12.9	14.0	7.2
1994	3.5	2.0	1.5	1.3	3.1	6.9	4.8	5.6	5.1	7.9	13.8	5.3
1995	3.6	1.9	1.3	1.4	3.2	7.0	9.3	9.6	7.8	6.6	15.3	11.0
1996	16.5	3.7	2.5	1.8	6.8	8.6	8.1	8.3	6.4	6.9	22.0	13.6
1997	3.7	2.4	1.2	0.9	3.6	4.4	2.4	1.9	4.4	4.7	8.0	3.4
1998	1.7	0.8	0.5	1.7	3.5	4.4	5.3	8.1	8.6	9.9	6.6	14.2
1999	3.6	1.3	0.9	1.1	4.4	8.9	9.1	11.4	6.1	11.1	18.4	29.9
2000	8.8	2.2	1.1	0.4	1.3	8.4	3.4	5.7	5.7	11.9	7.6	14.7
1941	2.9	4.6	2.8	1.9	7.6	11.2	10.7	12.0	6.9	19.3	15.8	8.2
1942	3.0	2.5	3.0	5.9	5.4	13.7	10.2	11.4	10.9	12.2	8.4	9.8
1943	5.0	3.7	2.6	2.9	8.9	11.1	8.4	12.4	11.2	8.7	9.2	21.2
1944	3.9	4.6	2.0	4.4	16.0	8.8	11.3	15.3	10.2	19.2	22.6	38.4
1945	5.2	2.5	1.6	1.4	8.1	7.0	11.9	13.2	9.6	7.8	8.4	11.8
1946	3.8	1.8	1.2	1.5	4.8	6.6	12.6	6.4	6.9	3.6	8.7	22.7
1947	2.5	2.2	1.2	1.5	4.7	8.4	15.8	11.7	5.5	4.9	5.0	8.3
1948	2.9	1.7	1.3	1.3	3.6	5.2	10.2	7.6	6.7	5.9	10.3	6.3
1949	2.4	1.6	1.3	2.2	7.9	11.6	15.0	11.7	8.8	10.4	13.2	13.8
1950	3.1	3.6	1.9	4.3	9.1	7.5	21.2	9.5	5.6	5.6	10.9	19.2
1951	3.9	9.7	4.7	5.7	7.5	7.4	5.0	8.1	7.3	8.2	8.0	8.7
1952	3.7	2.2	1.4	2.7	4.4	6.4	11.7	13.9	9.0	10.9	5.9	16.3
1953	11.6	9.7	2.3	2.2	8.9	6.9	8.9	8.2	6.3	6.7	13.1	9.5
1954	3.4	2.6	1.8	3.9	8.2	10.5	13.3	15.1	7.4	6.1	19.2	21.6
1955	15.5	2.9	1.9	1.6	4.5	4.5	7.7	14.6	6.1	3.9	18.9	10.7
1956	13.5	4.7	4.9	4.1	14.4	9.0	12.9	6.7	7.3	5.1	16.8	13.6
1957	2.9	1.6	1.2	1.0	4.7	3.2	2.2	4.2	4.8	6.6	17.8	11.4
1958	8.8	3.4	2.8	1.8	4.6	4.2	10.4	10.3	11.1	6.1	9.0	10.6
1959	3.7	1.6	1.2	2.6	4.9	7.5	7.9	8.0	15.5	9.2	26.7	28.2
1960	15.0	2.3	2.0	10.5	8.7	8.8	9.1	10.1	5.6	6.6	9.6	26.3
1961	11.2	2.2	1.5	1.6	4.6	20.7	13.8	4.8	4.3	7.4	8.3	8.6
1962	5.6	1.8	1.2	1.4	5.7	5.4	10.1	11.2	6.9	7.8	9.9	6.9
1963	8.1	2.4	1.5	2.3	13.5	9.7	9.7	10.5	8.7	5.4	8.9	4.3
1964	2.1	1.2	1.1	1.4	6.7	13.0	10.4	7.9	-1.0	-1.0	9.3	3.9
1965	3.8	1.8	1.6	1.5	5.1	-1.0	-1.0	-1.0	7.1	10.6	14.6	13.2
1966	5.7	2.9	2.3	7.9	10.1	5.7	5.2	6.6	8.4	6.7	26.0	14.5
1967	5.1	3.0	2.4	6.5	9.9	9.0	14.9	6.6	6.2	4.2	10.6	9.5
1968	2.2	2.0	3.1	2.8	6.8	6.5	8.9	8.3	8.2	8.4	7.3	6.2
1969	2.7	2.3	2.0	2.2	6.1	3.3	5.4	8.5	6.4	6.8	7.3	22.5
1970	19.7	2.9	2.0	8.3	14.3	7.7	8.6	9.7	7.4	6.7	14.2	29.1
1971	4.7	2.0	2.7	1.1	4.7	9.8	17.3	10.1	7.5	7.6	9.8	4.4
1972	27.8	6.2	2.0	5.0	12.4	8.4	6.7	6.8	10.9	9.4	7.6	8.0
1973	2.8	1.6	0.8	0.7	5.0	6.4	9.4	7.5	5.5	5.7	20.8	12.5
1974	5.4	2.0	1.5	1.3	3.1	6.7	8.9	7.4	5.0	6.9	16.1	6.2
1975	1.8	0.9	0.7	0.5	8.8	14.2	18.4	20.2	6.8	9.1	11.7	20.2
1976	4.6	2.3	1.9	4.5	4.6	6.3	4.2	4.0	6.9	7.0	11.9	2.8
1977	2.9	1.6	1.1	1.3	2.4	3.2	5.7	7.5	8.9	13.8	10.3	10.6
1978	1.0	2.3	1.7	8.5	13.7	10.7	4.2	9.5	7.2	5.1	8.4	4.2
1979	2.4	1.2	0.8	5.3	4.7	7.3	5.2	5.6	4.6	5.8	9.3	18.9
1980	5.7	2.4	1.2	1.4	6.2	11.5	4.9	4.1	4.3	8.2	8.6	12.1
1981	6.2	3.4	3.2	30.0	13.1	8.7	13.6	7.8	4.8	6.4	11.9	20.8
1982	6.6	2.9	1.5	2.8	2.6	3.7	8.6	11.8	7.4	11.8	6.0	3.7
1983	2.9	1.5	0.9	2.7	9.1	7.9	8.7	8.3	7.9	9.4	10.0	33.2
1984	4.2	3.0	1.7	1.0	3.5	10.3	9.2	13.4	7.3	6.0	11.4	8.0
1985	1.9	2.1	2.0	1.7	5.5	9.7	6.6	5.6	10.2	8.3	8.4	14.9
1986	4.9	2.5	1.7	9.4	13.8	10.5	8.2	7.8	12.2	8.0	12.1	3.4
1987	1.4	1.5	0.7	12.3	19.3	9.6	7.6	9.2	11.4	9.3	16.6	5.8
1988	2.7	3.5	2.1	1.9	5.7	4.2	19.7	17.3	5.7	14.4	8.2	7.9
1989	3.2	4.2	1.7	1.1	7.7	9.7	13.7	13.1	5.7	11.4	14.0	8.2
1990	9.7	5.0	4.2	3.1	11.9	6.3	6.6	11.4	8.8	11.8	9.7	8.0
1991	3.4	2.5	2.0	1.8	15.5	5.6	5.1	6.7	15.1	5.8	21.0	6.7
1992	2.5	1.2	1.2	5.2	21.0	7.2	8.1	19.0	10.2	7.4	12.5	8.7
1993	5.5	2.6	4.0	9.2	7.3	11.0	9.5	7.7	11.0	14.4	13.0	13.1
1994	2.9	2.0	1.8	1.3	10.4	15.7	11.0	16.0	8.5	6.0	15.2	5.6
1995	3.9	1.7	1.2	1.8	4.3	11.9	13.2	5.2	6.4	4.8	13.7	17.7
1996	13.4	5.0	5.1	4.6	14.6	8.5	8.1	6.9	4.4	5.1	23.8	21.0
1997	3.1	3.8	1.6	1.1	8.3	8.1	3.6	4.9	5.1	5.2	3.8	1.9
1998	1.6	1.0	0.7	5.8	5.1	6.3	11.2	10.6	7.7	7.3	4.2	12.3
1999	5.6	2.9	3.2	6.3	9.0	8.2	15.1	11.5	6.9	7.6	12.5	37.5
2000	9.9	2.6	2.4	-1.	7.7	15.7	6.3	8.9	5.0	9.5	9.5	17.1

**OUTPUT FILE
STREAMFLOW
FILL-IN PROGRAM**

1GATUN WATERSHED

FILLING MISSING

SECTION III FLOW DATA

0 NUMBER OF SITES 6
0 NUMBER OF YEARS 60
0 NUMBER OF SEASONS 12
0 RANDOM NUMBER TRIGGER 1973
0 FIRST CALENDAR YEAR 1941
0 RUNE STA. = 0 EVAP STA

EXISTING SITE ORDER

EXISTING SITE ORDER

FLOW CIRI GRANDE AT LOS CANONES (CAN)
 FLOW PEQUENI RIVER AT CANDELARIA (CDL)
 FLOW CHAGRES RIVER AT CHICO (CHI)
 FLOW TRINIDAD RIVER AT EL CHORRO (CHR)
 FLOW UNTITLED RIVER AT CIENTO (CNT)
 FLOW BOQUERON RIVER AT FELUCA (PEL)

DATA ECHO

0	SITE NO.	1	CIRI GRANDE AT LOS CANONES (CAN)										
			DATA ECA	1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1943	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1944	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1945	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1946	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1947	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1948	4.30	1.60	1.20	0.90	1.90	2.70	10.50	12.30	11.70
				1949	2.40	1.40	0.90	0.80	2.60	15.00	10.40	13.10	18.70
				1950	4.00	2.20	1.30	0.90	7.00	13.20	13.70	20.30	13.30
				1951	7.30	4.00	2.20	1.40	7.20	8.90	8.20	9.00	15.50
				1952	4.80	2.20	1.20	1.00	4.00	10.60	8.10	8.60	14.80
				1953	14.10	5.30	2.70	1.90	8.60	7.70	7.40	6.10	7.60
				1954	6.00	2.70	1.70	1.40	6.80	7.20	17.50	13.10	18.00
				1955	16.40	4.90	2.40	1.90	3.80	15.30	10.80	18.10	22.20
				1956	17.00	5.10	2.90	2.70	10.50	15.40	14.50	10.70	17.40
				1957	4.10	2.00	1.30	0.90	4.20	4.20	4.10	8.30	9.10
				1958	6.80	5.20	2.70	1.90	6.20	7.50	10.50	14.20	13.80
				1959	-1.00	2.00	1.40	1.20	1.90	-1.00	-1.00	-1.00	-1.00
				1960	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1961	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1962	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1963	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1964	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1965	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1970	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1971	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1972	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1973	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1974	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1975	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1976	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1977	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1978	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
				1979	5.10	3.90	3.50	4.00	6.50	10.70	10.60	15.90	19.40
				1980	10.70	3.70	2.00	1.40	5.40	10.90	8.00	19.20	9.00
				1981	11.40	9.20	7.40	13.10	21.20	22.80	20.70	14.80	14.60
				1982	7.90	3.50	2.30	2.60	4.60	7.50	6.30	4.70	8.70
				1983	2.40	1.50	0.90	0.50	4.40	5.70	4.10	5.30	17.20
				1984	-1.00	-1.00	2.30	1.40	6.40	12.20	10.90	17.10	16.70
				1985	-1.00	-1.00	1.30	0.90	2.50	7.10	3.10	12.60	20.80
				1986	4.00	2.10	1.40	4.10	5.90	12.70	8.40	6.70	9.80
				1987	2.80	1.90	1.10	1.70	5.30	5.40	7.70	12.80	14.00
				1988	2.80	1.70	0.90	0.90	4.10	8.00	8.60	15.10	17.00
				1989	6.70	3.50	2.30	1.20	4.80	5.50	10.10	14.70	13.70
				1990	5.80	3.00	2.20	1.30	5.20	7.70	10.10	10.50	19.40
				1991	3.80	1.90	2.40	1.20	4.60	6.10	4.70	5.60	11.00
				1992	3.30	1.70	1.20	1.60	6.50	11.60	8.30	13.20	15.10
				1993	4.40	2.90	2.10	2.00	4.90	10.30	7.50	6.30	13.80
				1994	4.60	2.20	1.60	1.40	5.00	8.00	5.80	4.50	9.70
				1995	2.90	1.60	1.00	1.30	7.80	12.80	10.30	11.20	11.60
				1996	22.60	6.90	5.10	2.70	7.90	12.00	18.00	22.30	17.50
				1997	5.60	3.30	1.70	1.20	2.00	3.60	2.90	2.40	6.00

1998	2.30	1.60	0.70	0.90	2.60	4.70	8.40	6.80	9.60	15.30	8.80	13.30
1999	6.80	3.50	2.60	2.90	9.20	13.20	8.80	20.90	27.30	13.20	20.40	26.70
2000	11.60	4.20	2.20	1.80	7.20	16.40	9.60	9.90	12.40	9.50	12.50	10.10

DATA ECHO

0	SITE NO.	2	PEQUENI RIVER AT CANDELARIA (CDL)									
1941	6.30	11.10	9.20	4.30	12.10	23.80	15.50	21.30	14.40	35.70	27.20	18.00
1942	7.30	5.40	6.80	13.60	12.50	21.90	17.60	16.50	19.50	24.70	13.60	15.80
1943	12.70	7.80	4.90	7.20	14.90	22.50	15.80	20.30	17.60	16.10	15.50	37.40
1944	9.30	9.20	3.80	5.70	20.90	15.00	20.90	24.40	16.40	24.60	26.40	54.10
1945	11.20	5.70	3.80	3.40	13.30	16.80	17.60	20.40	15.80	14.00	13.20	28.90
1946	5.40	3.80	2.60	3.70	12.90	17.20	27.50	16.10	15.90	15.40	11.80	34.40
1947	9.60	5.60	3.10	5.00	8.40	18.30	22.40	21.30	17.20	14.90	14.80	20.40
1948	6.60	3.50	2.30	2.30	7.20	12.20	20.30	15.10	17.10	15.90	17.90	10.10
1949	5.60	3.20	2.00	3.30	10.80	22.60	24.30	21.10	19.50	21.40	21.50	25.00
1950	7.50	7.40	4.20	8.80	22.30	16.20	38.10	25.90	16.60	13.00	21.90	31.40
1951	9.00	21.20	10.90	8.80	15.20	15.30	13.90	14.60	15.50	14.40	12.60	18.50
1952	8.00	4.80	2.70	3.50	12.10	11.60	19.20	24.20	18.00	23.00	14.80	23.70
1953	17.50	10.40	4.60	5.30	19.30	11.80	13.30	13.10	11.80	12.50	19.30	14.40
1954	6.70	4.80	4.40	6.40	13.60	16.50	17.80	19.20	15.00	10.80	27.80	29.20
1955	24.20	6.30	5.20	4.20	9.10	7.40	19.60	26.60	13.30	9.30	35.20	16.80
1956	23.40	9.40	9.20	9.30	24.20	17.80	23.50	15.10	14.90	13.00	28.00	22.00
1957	6.30	4.50	3.50	3.00	7.10	8.50	7.30	9.60	9.00	14.30	27.10	19.60
1958	19.70	7.50	6.00	4.10	8.90	9.50	16.30	12.80	18.30	14.30	19.30	13.50
1959	6.10	4.10	3.10	4.70	10.60	14.30	13.80	14.20	24.60	17.00	34.20	42.10
1960	19.00	5.60	4.60	15.90	17.40	16.80	15.80	12.90	11.80	12.70	19.40	38.70
1961	6.60	4.40	3.30	5.20	9.90	5.20	14.30	16.10	11.70	18.30	14.90	12.10
1962	5.70	4.30	3.30	4.00	12.90	11.80	22.70	21.50	16.30	15.80	18.00	13.50
1963	17.10	6.80	4.30	8.30	23.40	18.90	19.70	21.80	18.00	11.50	16.70	8.70
1964	4.70	3.40	3.00	5.80	14.30	22.20	17.10	15.90	13.50	12.30	17.10	8.80
1965	7.50	4.80	3.70	3.00	10.50	21.80	15.90	11.90	18.00	17.60	24.50	23.10
1966	11.10	5.80	4.30	15.70	19.00	15.00	13.60	13.90	17.60	15.60	44.60	35.30
1967	11.40	6.10	5.50	13.80	23.10	20.20	22.90	15.40	15.00	12.00	23.40	21.60
1968	5.90	4.80	5.40	6.60	17.70	15.30	17.80	17.20	17.40	16.00	14.60	11.30
1969	6.70	5.00	4.20	7.20	14.50	8.40	13.60	17.50	15.00	10.10	13.40	41.70
1970	36.80	4.30	8.30	20.80	24.70	12.90	14.80	18.00	17.10	19.40	20.20	41.80
1971	13.30	6.80	-1.00	-1.00	10.40	18.30	27.40	15.00	11.60	13.00	14.10	9.00
1972	39.10	7.10	4.20	7.00	15.30	15.00	12.40	10.50	18.50	17.00	16.10	12.40
1973	6.00	3.60	1.60	1.30	10.30	11.40	17.70	17.50	12.00	12.00	26.50	17.60
1974	9.70	4.40	3.10	1.90	5.90	9.60	13.40	14.00	10.30	13.40	20.10	12.50
1975	4.60	3.10	2.50	1.80	14.00	17.80	20.90	29.30	18.70	17.80	22.30	28.50
1976	9.10	5.00	4.40	6.70	10.20	10.70	7.60	7.70	10.60	15.10	22.00	6.30
1977	5.90	3.90	2.90	3.10	5.20	6.90	11.10	17.40	13.80	24.70	18.70	19.70
1978	6.40	5.80	4.40	12.60	23.60	17.10	15.30	20.10	14.50	13.40	16.10	9.60
1979	4.20	3.70	2.70	10.80	10.00	14.80	11.50	13.10	9.90	13.50	17.70	26.30
1980	15.40	9.50	4.80	4.50	13.20	20.70	10.60	10.90	9.30	13.70	14.10	18.10
1981	12.40	7.90	6.50	44.00	20.40	13.60	23.40	15.80	9.80	16.00	19.70	30.10
1982	12.90	6.10	4.00	5.30	8.20	8.60	17.60	17.20	13.60	23.00	14.20	8.60
1983	6.70	3.80	2.90	6.50	17.60	14.80	13.80	12.50	13.70	19.10	18.30	45.10
1984	8.70	5.90	3.30	-2.10	6.30	13.30	16.10	20.90	13.50	15.80	17.70	13.30
1985	6.00	4.00	3.80	2.90	11.40	17.50	12.20	11.10	17.70	16.20	14.50	22.30
1986	5.90	3.20	2.70	12.30	23.20	19.10	17.60	15.30	21.60	14.90	19.70	7.60
1987	4.20	4.40	2.60	15.70	37.80	20.10	16.80	21.50	22.90	16.80	25.70	12.00
1988	4.30	4.60	2.80	2.00	8.30	7.80	26.60	30.20	10.90	18.40	15.50	13.10
1989	7.10	7.10	4.10	2.60	10.00	16.30	22.50	21.80	13.40	20.60	23.80	13.50
1990	14.00	7.40	6.00	5.00	21.80	11.70	11.50	20.80	16.00	20.10	17.40	14.20
1991	5.50	3.40	4.70	3.30	19.50	10.80	8.90	12.90	26.40	12.80	31.70	12.60
1992	6.00	3.40	2.80	7.90	31.90	18.20	17.40	26.50	19.30	11.90	19.90	16.00
1993	11.40	5.90	6.90	17.80	15.00	16.70	12.90	10.40	17.30	26.40	21.10	18.70
1994	7.10	4.80	2.90	2.70	14.00	22.50	15.00	24.90	14.00	12.50	25.00	9.20
1995	6.20	3.60	2.20	5.10	12.90	18.60	25.10	13.30	13.20	11.80	18.50	29.80
1996	30.90	10.20	11.10	8.10	24.20	19.80	15.90	15.30	11.80	12.10	34.70	34.90
1997	6.40	7.60	4.30	2.90	14.30	15.10	10.30	9.50	9.00	10.70	8.30	3.90
1998	2.80	2.60	1.20	6.40	12.50	9.70	18.00	20.20	15.80	11.80	10.40	24.70
1999	14.90	11.00	10.60	16.30	18.40	20.30	22.80	-1.00	-1.00	15.00	17.40	57.10
2000	19.70	10.10	7.30	-1.00	15.70	23.30	16.50	17.20	15.70	17.80	16.10	29.60

DATA ECHO

0	SITE NO.	3	CHAGRES RIVER AT CHICO (CHI)									
1941	15.00	22.10	17.50	11.90	22.20	37.30	28.10	37.50	40.40	75.60	66.90	43.40
1942	21.20	15.90	15.90	24.80	17.90	29.70	33.10	32.20	39.10	52.20	40.80	34.60
1943	28.80	20.50	15.80	17.00	33.60	35.40	27.30	31.90	31.60	45.40	41.10	76.60
1944	26.70	20.20	10.70	17.80	37.70	31.10	42.00	42.90	37.50	56.30	53.50	89.10
1945	29.40	17.80	11.20	11.40	25.30	28.90	30.70	40.20	36.10	34.80	31.40	65.60
1946	19.80	14.40	9.80	12.70	24.10	27.70	39.60	42.80	34.90	30.80	25.50	58.70
1947	19.90	13.60	8.60	9.50	13.90	22.90	32.20	33.70	28.50	32.10	35.60	39.30
1948	16.60	9.00	6.30	6.10	14.20	23.70	40.00	31.50	26.60	38.90	45.80	29.50
1949	15.00	9.40	6.90	7.20	23.50	39.10	51.00	48.30	38.30	45.00	61.30	53.50

1950	20.60	17.10	10.80	20.00	40.40	30.10	53.90	45.80	32.90	26.20	50.80	60.10
1951	19.70	43.20	23.20	19.40	25.80	30.50	33.20	24.80	28.70	24.80	28.90	28.20
1952	18.40	12.40	9.00	10.60	24.10	23.80	31.50	38.20	35.00	49.40	31.50	53.20
1953	41.40	27.00	14.00	12.50	37.60	27.60	32.60	31.40	28.10	33.60	39.60	34.30
1954	18.30	13.70	12.40	12.80	21.70	34.60	34.70	39.00	38.10	25.00	64.20	63.20
1955	64.80	18.30	12.70	10.20	15.30	17.50	28.30	48.70	31.40	28.50	77.00	44.00
1956	62.40	21.70	19.20	19.80	43.40	37.20	63.90	34.10	35.70	44.60	86.30	41.50
1957	17.50	11.60	8.20	6.90	13.10	12.70	11.90	13.90	18.20	30.60	49.00	33.00
1958	32.80	14.80	10.70	7.30	17.60	21.20	22.10	25.20	27.00	27.70	33.30	27.20
1959	12.70	8.60	6.70	9.70	17.90	17.50	16.40	18.40	32.10	33.20	54.90	89.50
1960	53.90	12.30	8.90	21.40	27.40	29.60	30.80	29.10	30.20	34.30	35.60	94.00
1961	18.40	10.10	8.20	11.90	18.50	43.10	26.80	33.50	31.50	37.70	45.00	28.40
1962	17.60	11.20	9.00	9.50	27.60	20.20	33.00	44.10	38.10	36.40	40.60	31.70
1963	37.80	19.30	12.90	27.30	39.00	41.30	47.70	45.70	49.40	37.70	43.90	25.30
1964	15.40	12.10	9.90	16.90	26.90	45.50	28.00	26.40	31.70	27.90	39.20	22.20
1965	18.20	14.10	11.90	10.70	23.70	33.10	23.20	30.70	40.30	50.80	50.10	51.40
1966	25.90	16.80	12.60	34.70	41.00	32.70	34.00	30.40	38.10	42.30	-1.00	77.10
1967	33.90	19.90	13.40	31.20	43.00	49.50	44.80	33.90	35.30	30.50	36.10	37.10
1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1971	43.60	-1.00	-1.00	-1.00	-1.00	-1.00	46.40	38.70	33.20	31.10	39.30	21.60
1972	57.40	14.60	10.30	25.80	17.60	21.70	14.10	25.30	19.70	31.70	34.00	19.90
1973	11.90	8.40	5.60	5.10	16.30	28.40	28.30	32.30	28.30	36.10	60.40	46.00
1974	27.20	13.20	9.70	7.50	13.00	16.80	21.90	31.30	31.30	42.80	39.70	26.70
1975	12.10	7.50	5.10	-1.00	-1.00	28.80	44.80	52.00	34.70	46.60	58.00	58.00
1976	25.80	14.00	11.20	12.70	19.90	18.50	12.90	15.00	22.30	39.80	42.60	17.90
1977	15.80	11.00	8.20	8.20	14.70	17.10	22.50	28.80	26.70	56.30	45.20	33.10
1978	13.80	11.70	8.40	26.60	28.20	39.80	46.70	48.80	32.40	34.60	42.60	23.50
1979	12.10	8.90	6.90	17.80	17.10	23.70	27.30	36.70	31.70	28.50	42.80	41.10
1980	30.80	18.50	10.10	10.70	22.30	29.30	17.90	21.20	23.50	30.40	43.60	39.60
1981	23.20	17.70	14.40	100.60	46.30	37.20	40.00	38.90	27.90	33.10	40.70	61.60
1982	32.10	14.60	9.20	12.30	22.00	19.20	32.70	31.10	29.50	45.90	31.90	20.40
1983	15.30	8.50	6.20	5.40	36.60	22.20	19.60	21.60	27.70	34.30	40.00	76.50
1984	25.60	15.50	8.90	6.30	18.70	30.30	39.10	67.80	48.40	55.10	55.80	35.10
1985	19.10	12.90	12.90	9.40	19.50	34.20	26.20	21.20	37.80	30.60	29.80	51.90
1986	17.70	11.80	12.10	21.90	49.30	30.60	25.30	22.00	36.60	57.60	-1.00	30.20
1987	13.30	12.60	8.20	28.50	55.90	36.00	36.40	44.20	51.50	39.70	60.60	29.80
1988	13.70	14.50	9.10	7.00	24.50	22.30	43.80	57.20	40.80	50.80	44.40	32.40
1989	20.60	19.90	12.10	8.60	17.20	31.90	34.40	37.80	32.30	58.50	67.40	36.20
1990	29.70	17.60	14.00	22.30	74.50	21.00	19.10	34.10	44.70	57.40	58.60	63.00
1991	19.60	12.70	15.40	11.80	31.40	21.90	22.80	23.00	33.30	33.40	57.30	33.60
1992	16.40	10.90	8.80	14.00	46.60	45.20	34.90	49.80	41.10	33.40	48.80	31.10
1993	25.30	12.20	17.00	26.80	36.30	47.80	36.10	25.80	37.70	58.10	40.70	26.50
1994	12.90	8.60	7.30	6.40	25.40	36.70	37.90	33.00	34.40	37.00	65.20	30.30
1995	15.40	8.30	4.80	6.10	19.10	36.40	43.60	41.30	28.70	31.00	38.50	50.00
1996	73.20	30.50	22.60	19.30	47.50	42.50	45.30	49.90	33.70	42.10	83.20	94.70
1997	29.00	16.80	9.10	7.80	31.30	26.80	16.20	13.50	18.40	24.60	21.90	21.60
1998	12.20	8.40	5.00	14.30	39.60	24.00	31.00	33.90	34.20	33.50	38.50	54.80
1999	30.80	24.00	14.80	17.50	25.70	36.20	45.30	53.80	44.30	40.50	52.10	126.70
2000	50.90	19.60	11.70	9.00	21.80	41.70	28.20	32.80	40.80	53.90	33.30	84.20

DATA ECHO

0 SITE NO.	4 TRINIDAD RIVER AT EL CHORRO (CHR)
1941 -1.00	-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
1942 -1.00	-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
1943 -1.00	-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
1944 -1.00	-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
1945 -1.00	-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
1946 -1.00	-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
1947 -1.00	-1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00
1948 3.50	1.90 0.60 1.60 2.00 6.30 7.60 6.70 7.30 16.60 5.70
1949 2.30	1.00 0.60 0.50 1.80 10.30 9.70 10.50 15.90 13.00 23.00 17.10
1950 4.40	2.60 1.40 0.70 6.30 9.80 10.10 13.50 8.60 13.30 19.20 15.80
1951 5.00	3.40 1.70 1.20 5.70 6.20 7.10 9.00 11.20 9.70 12.00 7.80
1952 3.20	2.00 1.00 0.80 2.00 5.40 4.90 5.80 9.90 14.10 9.70 18.80
1953 7.50	3.40 1.70 1.20 6.70 6.20 5.70 4.20 5.90 11.50 11.90 6.40
1954 3.00	1.70 1.00 0.90 8.20 7.10 17.80 14.40 14.30 13.90 21.50 9.70
1955 10.10	3.20 1.60 1.10 2.10 8.20 7.00 11.00 13.00 15.20 21.90 10.90
1956 9.20	3.10 2.00 1.50 5.00 8.40 10.30 6.40 11.70 19.30 11.60 5.90
1957 2.60	1.50 0.90 0.50 2.20 2.60 2.50 5.20 5.40 13.70 9.90 5.40
1958 3.50	3.30 1.60 1.00 3.60 4.40 6.50 9.40 9.20 10.50 8.00 4.50
1959 2.40	1.30 0.70 0.60 1.10 2.70 2.80 3.60 4.30 13.40 9.20 11.70
1960 5.40	2.20 2.30 2.80 6.90 7.40 7.30 7.50 6.60 10.70 15.00 25.60
1961 4.00	2.00 1.10 1.20 2.10 5.40 4.70 5.30 8.60 13.50 11.80 9.50
1962 3.30	1.80 1.00 0.90 1.40 2.20 3.00 7.80 6.70 9.10 9.50 7.10
1963 2.80	1.80 1.00 2.10 4.60 5.60 6.80 8.90 9.00 12.90 14.60 4.60

1964	2.30	1.20	0.80	0.90	3.40	11.40	11.30	11.50	13.90	15.00	17.70	5.20
1965	4.00	1.90	1.10	0.60	1.00	2.00	1.80	4.20	3.30	7.00	8.80	9.40
1966	3.20	1.50	1.00	1.10	6.70	9.20	7.40	-1.00	-1.00	14.20	19.20	14.60
1967	4.50	2.20	1.10	1.80	5.50	13.40	10.00	11.00	14.80	17.20	11.30	5.20
1968	2.40	1.70	1.10	1.00	2.70	8.00	5.90	8.40	8.90	15.20	14.70	6.90
1969	2.90	1.60	0.80	1.30	2.70	5.60	-1.00	-1.00	-1.00	11.70	12.80	7.70
1970	6.20	2.70	2.30	2.40	7.50	4.90	5.60	12.40	10.40	15.80	12.40	26.40
1971	11.10	3.80	2.10	1.60	6.50	9.80	8.30	12.20	13.50	15.00	17.90	5.00
1972	3.30	2.20	1.30	3.70	3.10	5.80	2.50	3.60	8.60	8.70	-1.00	3.60
1973	2.00	1.20	0.60	0.60	2.40	10.30	10.70	8.50	15.50	17.30	20.70	9.90
1974	4.30	2.60	1.90	1.10	2.20	4.90	6.00	6.90	8.20	24.00	13.40	6.90
1975	3.00	1.70	1.10	0.70	2.00	4.00	5.90	11.60	16.30	18.10	28.10	14.60
1976	5.50	2.90	1.70	1.50	3.50	3.20	1.60	2.00	6.20	15.00	10.30	3.90
1977	2.40	1.50	0.90	0.70	2.00	3.00	2.90	6.70	7.70	14.80	10.90	5.90
1978	2.80	1.80	1.20	7.00	6.10	8.60	8.30	13.60	11.80	16.20	17.70	8.20
1979	3.60	2.10	1.40	2.40	3.70	6.40	6.90	9.90	11.20	13.50	8.20	7.00
1980	6.10	2.80	1.50	1.00	3.60	7.20	5.20	8.80	6.70	13.30	13.40	8.80
1981	5.80	4.00	3.20	7.30	12.40	13.90	12.90	13.50	11.30	15.30	18.10	13.70
1982	6.60	3.20	2.10	2.10	2.70	4.00	2.70	2.80	6.30	11.40	8.40	2.40
1983	1.70	1.10	0.70	0.50	2.30	3.30	2.10	2.90	10.40	8.20	7.70	8.00
1984	3.70	2.70	1.70	1.20	6.10	7.90	8.50	10.80	16.20	23.90	15.70	6.30
1985	3.50	2.10	1.40	1.00	2.60	4.50	3.30	-1.00	12.80	9.50	8.40	7.40
1986	3.30	1.90	1.30	2.70	2.90	5.90	4.60	4.40	5.30	16.90	14.40	5.40
1987	2.80	2.00	1.20	1.30	3.50	3.60	4.40	7.60	11.90	16.80	8.20	5.90
1988	2.50	1.50	0.90	0.90	4.70	4.70	6.50	10.10	13.50	14.10	11.60	8.00
1989	4.50	2.50	1.60	0.90	2.40	3.60	6.50	10.40	9.50	10.10	10.50	10.40
1990	4.60	2.50	1.60	1.10	3.20	7.20	7.40	7.70	15.00	17.60	13.60	11.30
1991	3.60	2.00	2.00	1.00	3.90	4.70	4.30	4.60	7.40	10.60	10.20	7.50
1992	3.00	1.70	1.00	1.20	3.40	7.20	5.20	6.70	14.50	10.50	9.50	6.40
1993	3.60	2.10	1.40	1.60	3.10	6.30	5.10	4.60	11.20	9.50	16.10	9.20
1994	3.50	2.20	1.50	1.00	3.30	4.30	3.40	3.30	7.70	12.70	11.00	4.80
1995	2.60	1.40	0.90	1.00	5.00	7.90	7.50	9.40	8.90	10.60	9.80	5.80
1996	15.60	4.60	3.60	2.10	6.30	10.00	11.60	15.20	15.00	16.90	12.80	10.50
1997	3.50	2.20	1.40	1.10	1.30	2.50	1.60	1.40	2.60	6.00	6.00	2.10
1998	1.20	0.80	0.50	0.50	1.50	2.00	4.80	5.10	5.50	10.40	8.60	10.40
1999	5.40	2.60	1.70	1.80	6.10	10.60	5.80	11.70	15.10	11.40	18.00	15.90
2000	7.70	3.70	2.00	1.60	3.80	6.00	5.40	7.70	10.10	9.00	9.60	6.60

DATA ECHO

O	SITE NO.	5	GATUN RIVER AT	CIENTO (CNT)								
1941	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1942	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1943	-1.00	-1.00	-1.00	-1.00	5.60	-1.00	-1.00	7.20	7.00	10.60	13.00	19.50
1944	4.60	2.30	1.20	2.80	9.10	5.00	7.40	12.10	6.00	20.40	15.40	20.20
1945	5.70	3.30	1.50	0.90	2.70	3.20	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1946	-1.00	-1.00	-1.00	1.20	2.60	3.30	9.20	6.40	8.90	6.90	7.80	16.00
1947	4.70	2.50	-1.00	1.20	2.10	-1.00	-1.00	-1.00	7.80	9.00	10.80	9.40
1948	4.20	2.40	1.50	0.80	2.70	3.20	6.60	4.90	4.80	5.80	9.90	3.90
1949	2.00	1.30	1.00	0.90	2.60	6.30	6.80	7.00	7.10	9.90	19.50	9.80
1950	3.00	2.30	1.70	1.80	3.70	5.90	8.60	7.20	6.20	6.20	17.30	20.90
1951	3.60	4.70	2.40	2.10	4.20	4.00	5.50	8.70	7.40	10.00	10.30	7.00
1952	3.10	2.30	1.90	1.50	2.50	5.10	8.00	7.40	7.30	11.40	8.30	13.50
1953	6.90	4.70	2.60	2.40	4.90	3.90	8.80	8.00	9.30	17.00	18.80	9.00
1954	3.90	2.80	1.40	1.60	6.00	5.90	11.40	9.50	9.10	8.80	15.40	10.10
1955	8.40	2.80	1.60	1.10	1.70	3.90	-4.80	9.20	5.60	8.20	14.40	8.10
1956	6.50	2.40	1.80	2.00	6.60	6.40	9.10	5.60	6.60	10.50	15.70	5.30
1957	0.90	0.50	0.40	0.30	0.50	0.50	0.50	0.60	1.30	5.20	11.50	4.00
1958	4.10	3.10	2.40	1.50	3.20	4.50	4.80	3.70	6.50	6.10	6.80	5.90
1959	2.60	1.60	1.10	1.00	1.90	3.50	3.30	4.10	8.00	9.90	16.80	26.00
1960	4.70	0.90	0.90	3.50	6.10	5.70	4.60	5.90	3.90	8.30	11.40	22.10
1961	2.80	1.60	1.10	1.10	2.50	8.90	7.10	6.80	8.20	12.70	15.70	8.00
1962	3.50	2.20	1.50	1.00	13.40	10.90	15.40	13.30	11.20	11.90	13.20	9.50
1963	9.70	2.90	1.60	1.30	7.50	13.30	12.20	19.60	15.30	18.80	34.10	6.20
1964	3.10	1.40	1.00	1.60	7.40	15.80	26.60	-1.00	-1.00	26.40	30.80	10.70
1965	4.60	3.30	2.00	1.10	5.60	-1.00	-1.00	11.10	-1.00	35.50	56.20	25.50
1966	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1967	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1968	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1969	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1970	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
1971	7.10	3.20	2.70	2.00	2.50	3.80	8.40	9.30	6.40	10.10	12.90	4.30
1972	10.60	3.00	1.80	3.20	4.10	7.20	5.00	3.60	7.20	9.50	8.80	10.50
1973	5.40	4.00	1.20	0.90	4.50	9.50	10.10	11.10	12.10	5.70	21.00	9.30
1974	5.00	2.80	1.90	1.20	1.80	3.60	4.30	5.30	-1.00	12.60	19.00	9.20
1975	2.40	2.00	-1.00	0.70	-1.00	4.10	9.40	10.40	2.70	13.40	18.20	16.10
1976	4.40	2.20	1.40	1.60	2.10	3.20	0.60	2.10	6.80	9.80	13.40	5.10
1977	2.30	1.10	0.60	0.50	0.90	1.70	2.70	8.10	7.40	8.80	9.40	7.50

1978	3.00	2.50	1.70	4.70	5.20	6.50	9.50	11.30	8.40	7.40	15.90	8.10
1979	3.80	1.30	1.30	2.10	3.70	5.90	5.00	8.00	6.50	13.70	15.00	6.60
1980	7.10	3.70	2.10	1.60	4.70	7.60	3.70	5.10	4.60	7.90	9.40	8.60
1981	4.80	3.10	2.20	14.60	16.30	14.20	11.80	8.80	6.30	10.10	22.20	25.20
1982	9.00	5.70	3.30	2.60	2.30	5.60	6.20	4.00	5.30	11.50	8.70	3.90
1983	2.30	1.50	1.00	1.30	2.70	3.50	3.60	6.70	8.20	11.00	10.80	18.60
1984	7.20	2.30	1.10	0.80	1.40	4.60	7.90	18.30	13.90	13.50	19.30	9.30
1985	4.10	3.10	2.70	2.60	3.70	6.60	5.40	5.90	8.50	8.60	10.40	18.20
1986	3.70	2.40	1.60	2.60	3.00	4.90	4.40	3.70	6.70	14.30	8.80	3.80
1987	2.10	1.80	1.10	8.40	10.30	7.80	8.40	8.60	8.50	19.00	22.00	9.30
1988	3.10	1.90	1.00	0.80	2.80	2.60	10.50	14.20	11.70	20.50	11.30	9.30
1989	2.80	3.30	2.50	2.40	3.40	3.40	7.40	8.30	5.60	8.40	19.60	13.60
1990	7.10	3.60	3.40	2.60	4.90	-1.00	4.10	8.80	14.30	16.50	13.30	8.60
1991	3.40	2.90	2.80	3.20	6.40	4.10	4.80	4.80	7.80	7.20	13.50	6.10
1992	7.20	2.40	1.20	1.70	12.30	8.30	6.30	10.80	10.70	6.90	8.30	8.40
1993	5.50	4.30	4.60	5.70	4.00	6.70	9.90	5.60	9.90	12.90	14.00	7.20
1994	3.50	2.00	1.50	1.30	3.10	6.90	4.80	5.60	5.10	7.90	13.80	5.30
1995	3.60	1.90	1.30	1.40	3.20	7.00	9.30	9.60	7.80	6.60	15.30	11.00
1996	16.50	3.70	2.50	1.80	6.80	8.60	8.10	8.30	6.40	6.90	22.00	13.60
1997	3.70	2.40	1.20	0.90	3.60	4.40	2.40	1.90	4.40	4.70	8.00	3.40
1998	1.70	0.80	0.50	1.70	3.50	4.40	5.30	8.10	8.60	9.90	6.60	14.20
1999	3.60	1.30	0.90	1.10	4.40	8.90	9.10	11.40	6.10	11.10	18.40	29.90
2000	8.80	2.20	1.10	0.40	1.30	8.40	3.40	5.70	5.70	11.90	7.60	14.70

DATA ECHO

0 SITE NO.	6 BOQUERON RIVER AT PELUCA (PEL)	12.00	6.90	19.30	15.80	8.20						
1941	2.90	4.60	2.80	1.90	7.60	11.20	10.70	12.00	6.90	19.30	15.80	8.20
1942	3.00	2.50	3.00	5.90	5.40	13.70	10.20	11.40	10.90	12.20	8.40	9.80
1943	5.00	3.70	2.60	2.90	8.90	11.10	8.40	12.40	11.20	8.70	9.20	21.20
1944	3.90	4.60	2.00	4.40	16.00	8.80	11.30	15.30	10.20	19.20	22.60	38.40
1945	5.20	2.50	1.60	1.40	8.10	7.00	11.90	13.20	9.60	7.80	8.40	11.80
1946	3.80	1.80	1.20	1.50	4.80	6.60	12.60	6.40	6.90	3.60	8.70	22.70
1947	2.50	2.20	1.20	1.50	4.70	8.40	15.80	11.70	5.50	4.90	5.00	8.30
1948	2.90	1.70	1.30	1.30	3.60	5.20	10.20	7.60	6.70	5.90	10.30	6.30
1949	2.40	1.60	1.30	2.20	7.90	11.60	15.00	11.70	8.80	10.40	13.20	13.80
1950	3.10	3.60	1.90	4.30	9.10	7.50	21.20	9.50	5.60	5.60	10.90	19.20
1951	3.90	9.70	4.70	5.70	7.50	7.40	5.00	8.10	7.30	8.20	8.00	8.70
1952	3.70	2.20	1.40	2.70	4.40	6.40	11.70	13.90	9.00	10.90	5.90	16.30
1953	11.60	9.70	2.30	2.20	8.90	6.90	8.90	8.20	6.30	6.70	13.10	9.50
1954	3.40	2.60	1.80	3.90	8.20	10.50	13.30	15.10	7.40	6.10	19.20	21.60
1955	15.50	2.90	1.90	1.60	4.50	4.50	7.70	14.60	6.10	3.90	18.90	10.70
1956	13.50	4.70	4.90	4.10	14.40	9.00	12.90	6.70	7.30	5.10	16.80	13.60
1957	2.90	1.60	1.20	1.00	4.70	3.20	2.20	4.20	4.80	6.60	17.80	11.40
1958	8.80	3.40	2.80	1.80	4.60	4.20	10.40	10.30	11.10	6.10	9.00	10.60
1959	3.70	1.60	1.20	2.60	4.90	7.50	7.90	8.00	15.50	9.20	26.70	28.20
1960	15.00	2.30	2.00	10.50	8.70	8.80	9.10	10.10	5.60	6.60	9.60	26.30
1961	11.20	2.20	1.50	1.60	4.60	20.70	13.80	4.80	4.30	7.40	8.30	8.60
1962	5.60	1.80	1.20	1.40	5.70	5.40	10.10	11.20	6.90	7.80	9.90	6.90
1963	8.10	2.40	1.50	2.30	13.50	9.70	9.70	10.50	8.70	5.40	8.90	4.30
1964	2.10	1.20	1.10	1.40	6.70	13.00	10.40	7.90	-1.00	-1.00	9.30	3.90
1965	3.80	1.80	1.60	1.50	5.10	-1.00	-1.00	-1.00	7.10	10.60	14.60	13.20
1966	5.70	2.90	2.30	7.90	10.10	5.70	5.20	6.60	8.40	6.70	26.00	14.50
1967	5.10	3.00	2.40	6.50	9.90	9.00	14.90	6.60	6.20	4.20	10.60	9.50
1968	2.20	2.00	3.10	2.80	6.80	6.50	8.90	8.30	8.20	8.40	7.30	6.20
1969	2.70	2.30	2.00	2.20	6.10	3.30	5.40	8.50	6.40	6.80	7.30	22.50
1970	19.70	2.90	2.00	8.30	14.30	7.70	8.60	9.70	7.40	6.70	14.20	29.10
1971	4.70	2.00	2.70	1.10	4.70	9.80	17.30	10.10	7.50	7.60	9.80	4.40
1972	27.80	6.20	2.00	5.00	12.40	8.40	6.70	6.80	10.90	9.40	7.60	8.00
1973	2.80	1.60	0.80	0.70	5.00	6.40	9.40	7.50	5.50	5.70	20.80	12.50
1974	5.40	2.00	1.50	1.30	3.10	6.70	8.90	7.40	5.00	6.90	16.10	6.20
1975	1.80	0.90	0.70	0.50	8.80	14.20	18.40	20.20	6.80	9.10	11.70	20.20
1976	4.60	2.30	1.90	4.50	4.60	6.30	4.20	4.00	6.90	7.00	11.90	2.80
1977	2.90	1.60	1.10	1.30	2.40	3.20	5.70	7.50	8.90	13.80	10.30	10.60
1978	1.00	2.30	1.70	8.50	13.70	10.70	4.20	9.50	7.20	5.10	8.40	4.20
1979	2.40	1.20	0.80	5.30	4.70	7.30	5.20	5.60	4.60	5.80	9.30	18.90
1980	5.70	2.40	1.20	1.40	6.20	11.50	4.90	4.10	4.30	8.20	8.60	12.10
1981	6.20	3.40	3.20	30.00	13.10	8.70	13.60	7.80	4.80	6.40	11.90	20.80
1982	6.60	2.90	1.50	2.80	2.60	3.70	8.60	11.80	7.40	11.80	6.00	3.70
1983	2.90	1.50	0.90	2.70	9.10	7.90	8.70	8.30	7.90	9.40	10.00	33.20
1984	4.20	3.00	1.70	1.00	3.50	10.30	9.20	13.40	7.30	6.00	11.40	8.00
1985	1.90	2.10	2.00	1.70	5.50	9.70	6.60	5.60	10.20	8.30	8.40	14.90
1986	4.90	2.50	1.70	9.40	13.80	10.50	8.20	7.80	12.20	8.00	12.10	3.40
1987	1.40	1.50	0.70	12.30	19.30	9.60	7.60	9.20	11.40	9.30	16.60	5.80
1988	2.70	3.50	2.10	1.90	5.70	4.20	19.70	17.30	5.70	14.40	8.20	7.90
1989	3.20	4.20	1.70	1.10	7.70	9.70	13.70	13.10	5.70	11.40	14.00	8.20
1990	9.70	5.00	4.20	3.10	11.90	6.30	6.60	11.40	8.80	11.80	9.70	8.00
1991	3.40	2.50	2.00	1.80	15.50	5.60	5.10	6.70	15.10	5.80	21.00	6.70

1992	2.50	1.20	1.20	5.20	21.00	7.20	8.10	19.00	10.20	7.40	12.50	8.70
1993	5.50	2.60	4.00	9.20	7.30	11.00	9.50	7.70	11.00	14.40	13.00	13.10
1994	2.90	2.00	1.80	1.30	10.40	15.70	11.00	16.00	8.50	6.00	15.20	5.60
1995	3.90	1.70	1.20	1.80	4.30	11.90	13.20	5.20	6.40	4.80	13.70	17.70
1996	13.40	5.00	5.10	4.60	14.60	8.50	8.10	6.90	4.40	5.10	23.80	21.00
1997	3.10	3.80	1.60	1.10	8.30	8.10	3.60	4.90	5.10	5.20	3.80	1.90
1998	1.60	1.00	0.70	5.80	5.10	6.30	11.20	10.60	7.70	7.30	4.20	12.30
1999	5.60	2.90	3.20	6.30	9.00	8.20	15.10	11.50	6.90	7.60	12.50	37.50
2000	9.90	2.60	2.40	-1.00	7.70	15.70	6.30	8.90	5.00	9.50	9.50	17.10

REORDERED SITE LIST

1

FLOW PEQUENI RIVER AT CANDELARIA (CDL)
 FLOW BOQUERON RIVER AT PELUCA (PEL)
 FLOW CHAGRES RIVER AT CHICO (CHI)
 FLOW GATUN RIVER AT CIENTO (CNT)
 FLOW TRINIDAD RIVER AT EL CHORRO (CHR)
 FLOW CIRI GRANDE AT LOS CANONES (CAN)

1

UNFILLED DATA SET

0	EXISTING SITE NO.	1		FLOW	PEQUENI RIVER AT CANDELARIA (CDL)				
	ORIGINAL SITE NO.	2							
	TOTAL NO. OF DATA POINTS		715						
	NUMBER OF OVERLAP POINTS =		0						
	1	2	3	4	5	6	7	8	9

10

11 12

NON TRANSFORMED DATA

MEAN:
 10.695 6.015 4.500 7.440 15.072 15.463 17.362 17.402 15.366 16.048 20.103 21.803

S.D.:
 7.537 2.937 2.243 6.655 6.386 4.663 5.436 5.074 3.674 4.679 6.698 12.005

LOG TRANSFORMED DATA

MEAN:
 1.294125 1.198541 1.156698 1.219996 1.386220 1.398166
 1.429021 1.430447 1.399775 1.409624 1.468876 1.473711

S.D.:
 0.129023 0.069080 0.062124 0.126666 0.104570 0.083517
 0.083374 0.079702 0.062262 0.071091 0.090227 0.156416

0	EXISTING SITE NO.	2		FLOW	BOQUERON RIVER AT PELUCA (PEL)				
	ORIGINAL SITE NO.	6							
	TOTAL NO. OF DATA POINTS		714						
	NUMBER OF OVERLAP POINTS =		710						
	1	2	3	4	5	6	7	8	9

10

11 12

NON TRANSFORMED DATA

MEAN:
 5.625 2.823 1.985 3.932 8.178 8.539 9.864 9.666 7.722 8.127 12.098 13.178

S.D.:
 4.828 1.677 1.009 4.372 4.159 3.317 4.028 3.635 2.470 3.256 5.125 8.436

LOG TRANSFORMED DATA

MEAN:
 1.178407 1.104841 1.077196 1.130001 1.249187 1.261542
 1.289394 1.286664 1.244568 1.252154 1.333647 1.339581

S.D.:
 0.108197 0.050458 0.034849 0.101024 0.093002 0.074596
 0.086576 0.077514 0.057685 0.071199 0.094804 0.145520

0	EXISTING SITE NO.	3		FLOW	CHAGRES RIVER AT CHICO (CHI)				
	ORIGINAL SITE NO.	3							
	TOTAL NO. OF DATA POINTS		675						
	NUMBER OF OVERLAP POINTS =		669						
	1	2	3	4	5	6	7	8	9

10

11 12

NON TRANSFORMED DATA

MEAN:
 25.765 15.223 10.991 16.016 28.267 30.209 32.658 35.037 33.726 39.661 46.633 46.486

S.D.:
 14.237 6.169 3.997 13.651 12.449 8.749 10.823 11.070 6.958 10.885 13.761 23.164

LOG TRANSFORMED DATA

MEAN:
 1.526001 1.390905 1.314679 1.382116 1.562545 1.593763

1.615433 1.640037 1.635084 1.686324 1.740984 1.719858
 S.D.:
 0.146917 0.093969 0.078876 0.152612 0.129545 0.096714
 0.114433 0.110065 0.070904 0.090353 0.101494 0.162937
 0 EXISTING SITE NO. 4 FLOW GATUN RIVER AT CIENTO (CNT)
 ORIGINAL SITE NO. 5
 TOTAL NO. OF DATA POINTS 608
 NUMBER OF OVERLAP POINTS = 601
 1 2 3 4 5 6 7 8 9
 10 11 12
 ONON TRANSFORMED DATA
 MEAN:
 4.851 2.543 1.690 2.098 4.500 5.984 7.194 7.834 7.573 11.304 15.192 11.337
 S.D.:
 2.726 1.043 0.806 2.222 3.116 3.035 4.124 3.682 2.728 5.525 8.022 6.475
 OLOG TRANSFORMED DATA
 MEAN:
 1.165437 1.096936 1.066822 1.077453 1.152947 1.196548
 1.224784 1.242428 1.239792 1.316719 1.385125 1.311309
 S.D.:
 0.071746 0.035571 0.028928 0.062616 0.082235 0.077193
 0.093311 0.087060 0.066083 0.096403 0.111450 0.121324
 0 EXISTING SITE NO. 5 FLOW TRINIDAD RIVER AT EL CHORRO (CHR)
 ORIGINAL SITE NO. 4
 TOTAL NO. OF DATA POINTS 629
 NUMBER OF OVERLAP POINTS = 565
 1 2 3 4 5 6 7 8 9
 10 11 12
 ONON TRANSFORMED DATA
 MEAN:
 4.349 2.234 1.400 1.489 3.894 6.258 6.277 8.026 10.082 13.292 13.290 8.938
 S.D.:
 2.555 0.812 0.600 1.298 2.196 2.907 3.171 3.487 3.621 3.728 4.645 4.992
 OLOG TRANSFORMED DATA
 MEAN:
 1.151127 1.086634 1.056327 1.057986 1.137893 1.204346
 1.203883 1.247518 1.295504 1.361772 1.359149 1.264664
 S.D.:
 0.067341 0.028290 0.022177 0.042513 0.064212 0.076061
 0.080695 0.086160 0.080534 0.068611 0.082201 0.101051
 0 EXISTING SITE NO. 6 FLOW CIRI GRANDE AT LOS CANONES (CAN)
 ORIGINAL SITE NO. 1
 TOTAL NO. OF DATA POINTS 396
 NUMBER OF OVERLAP POINTS = 395
 1 2 3 4 5 6 7 8 9
 10 11 12
 ONON TRANSFORMED DATA
 MEAN:
 6.926 3.200 2.062 1.971 5.844 9.776 9.352 11.832 14.503 17.621 16.968 12.316
 S.D.:
 4.875 1.736 1.276 2.110 3.395 4.313 3.989 5.108 4.541 4.894 6.035 5.722
 OLOG TRANSFORMED DATA
 MEAN:
 1.213659 1.117184 1.079292 1.073412 1.191931 1.286185
 1.277991 1.326771 1.381794 1.434370 1.420361 1.335071
 S.D.:
 0.108791 0.052978 0.041535 0.058665 0.079247 0.092499
 0.086296 0.104757 0.080496 0.077559 0.094950 0.107553
 0 CORRELATION
 OSITE NO. 1
 0 LAG ONE CORRELATION = 0.388340 NO. OF DATA POINTS USED = 711.
 OSITE NO. 2
 0 LAG ONE CORRELATION = 0.340974 NO. OF DATA POINTS USED = 710.
 OSITE NO. 3
 0 LAG ONE CORRELATION = 0.533511 NO. OF DATA POINTS USED = 669.
 OSITE NO. 4
 0 LAG ONE CORRELATION = 0.539690 NO. OF DATA POINTS USED = 595.
 OSITE NO. 5
 0 LAG ONE CORRELATION = 0.635318 NO. OF DATA POINTS USED = 624.
 OSITE NO. 6
 0 LAG ONE CORRELATION = 0.606726 NO. OF DATA POINTS USED = 388.
 0 SPATIAL CORRELATION MATRIX
 UNFILLED TRANSFORMED DATA SET

ALL SITES IN FINAL DATA SET

1.000	0.900	0.563	0.580	0.448	0.503	0.616	0.602	0.387	0.432
0.273	0.341								
0.000	1.000	0.615	0.616	0.445	0.498	0.581	0.659	0.431	0.466
0.294	0.351								
0.000	0.000	1.000	0.699	0.648	0.598	0.365	0.427	0.575	0.427
0.247	0.267								
0.000	0.000	0.000	1.000	0.778	0.830	0.404	0.461	0.415	0.555
0.314	0.382								
0.000	0.000	0.000	0.000	1.000	0.898	0.331	0.339	0.351	0.434
0.323	0.358								
0.000	0.000	0.000	0.000	0.000	1.000	0.365	0.376	0.319	0.445
0.291	0.403								
0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.893	0.570	0.576
0.446	0.499								
0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.613	0.609
0.432	0.490								
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.695
0.648	0.597								
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
0.771	0.823								
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.000	0.898								
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	1.000								

REGRESSION ANALYSIS

0 SITE NO. 1 NO. OF INDEP VAR. 1
 NO. OF LEAST SQUARES OBS. 711.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

0REGRESSION COEFFICIENTS
 0 0.386729
 0INTERCEPT =-.0057 MULTIPLE REGRESSION COEFF = 0.387428

0 SITE NO. 2 NO. OF INDEP VAR. 3
 NO. OF LEAST SQUARES OBS. 704.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

0REGRESSION COEFFICIENTS
 0 0.871777 0.305416 -0.256225
 0INTERCEPT =0.0002 MULTIPLE REGRESSION COEFF = 0.873951

0 SITE NO. 3 NO. OF INDEP VAR. 5
 NO. OF LEAST SQUARES OBS. 657.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

0REGRESSION COEFFICIENTS
 0 0.144809 0.589114 0.446598 -0.059856 -0.232429
 0INTERCEPT =0.0000 MULTIPLE REGRESSION COEFF = 0.849061

0 SITE NO. 4 NO. OF INDEP VAR. 7
 NO. OF LEAST SQUARES OBS. 581.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

0REGRESSION COEFFICIENTS
 0 0.415470 0.301757 -0.065001 0.538282 -0.108349 -0.214110 -0.031115
 0INTERCEPT =0.0034 MULTIPLE REGRESSION COEFF = 0.791350

0 SITE NO. 5 NO. OF INDEP VAR. 9
 NO. OF LEAST SQUARES OBS. 540.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

0REGRESSION COEFFICIENTS
 0 0.297579 0.375470 -0.162398 0.021483 0.531916 -0.238661 -0.110739
 0 0.158236 -0.013704
 0INTERCEPT =0.0057 MULTIPLE REGRESSION COEFF = 0.756785

0 SITE NO. 6 NO. OF INDEP VAR.11
 NO. OF LEAST SQUARES OBS. 379.
 VARIABLE NUMBER 1 IS DEPENDANT VARIABLE.

0REGRESSION COEFFICIENTS
 0 0.861944 0.009054 -0.001745 0.010354 0.040384 0.417562 -0.342780
 -0.017190 -0.005404 -0.062368 0.046258

0INTERCEPT =-.0047 MULTIPLE REGRESSION COEFF = 0.921793

SITE NO.=	1	FLOW	PEQUENI RIVER AT CANDELARIA (CDL)
1941	6.30	11.10	9.20 4.30 12.10 23.80 15.50 21.30 14.40 35.70 27.20 18.00
1942	7.30	5.40	6.80 13.60 12.50 21.90 17.60 16.50 19.50 24.70 13.60 15.80
1943	12.70	7.80	4.90 7.20 14.90 22.50 15.80 20.30 17.60 16.10 15.50 37.40
1944	9.30	9.20	3.80 5.70 20.90 15.00 20.90 24.40 16.40 24.60 26.40 54.10
1945	11.20	5.70	3.80 3.40 13.30 16.80 17.60 20.40 15.80 14.00 13.20 28.90
1946	5.40	3.80	2.60 3.70 12.90 17.20 27.50 16.10 15.90 15.40 11.80 34.40
1947	9.60	5.60	3.10 5.00 8.40 18.30 22.40 21.30 17.20 14.90 14.80 20.40
1948	6.60	3.50	2.30 7.20 12.20 20.30 15.10 17.10 15.90 17.90 10.10
1949	5.60	3.20	2.00 3.30 10.80 22.60 24.30 21.10 19.50 21.40 21.50 25.00
1950	7.50	7.40	4.20 8.80 22.30 16.20 38.10 25.90 16.60 13.00 21.90 31.40
1951	9.00	21.20	10.90 8.80 15.20 15.30 13.90 14.60 15.50 14.40 12.60 18.50
1952	8.00	4.80	2.70 3.50 12.10 11.60 19.20 24.20 18.00 23.00 14.80 23.70
1953	17.50	10.40	4.60 5.30 19.30 11.80 13.30 13.10 11.80 12.50 19.30 14.40
1954	6.70	4.80	4.40 6.40 13.60 16.50 17.80 19.20 15.00 10.80 27.80 29.20
1955	24.20	6.30	5.20 4.20 9.10 7.40 19.60 26.60 13.30 9.30 35.20 16.80
1956	23.40	9.40	9.20 9.30 24.20 17.80 23.50 15.10 14.90 13.00 28.00 22.00
1957	6.30	4.50	3.50 3.00 7.10 8.50 7.30 9.60 9.00 14.30 27.10 19.60
1958	19.70	7.50	6.00 4.10 8.90 9.50 16.30 12.80 18.30 14.30 19.30 13.50
1959	6.10	4.10	3.10 4.70 10.60 14.30 13.80 14.20 24.60 17.00 34.20 42.10
1960	19.00	5.60	4.60 15.90 17.40 16.80 15.80 12.90 11.80 12.70 19.40 38.70
1961	6.60	4.40	3.30 5.20 9.90 5.20 14.30 16.10 11.70 18.30 14.90 12.10
1962	5.70	4.30	3.30 4.00 12.90 11.80 22.70 21.50 16.30 15.80 18.00 13.50
1963	17.10	6.80	4.30 8.30 23.40 18.90 19.70 21.80 18.00 11.50 16.70 8.70
1964	4.70	3.40	3.00 5.80 14.30 22.20 17.10 15.90 13.50 12.30 17.10 8.80
1965	7.50	4.80	3.70 3.00 10.50 21.80 15.90 11.90 18.00 17.60 24.50 23.10
1966	11.10	5.80	4.30 15.70 19.00 15.00 13.60 13.90 17.60 15.60 44.60 35.30
1967	11.40	6.10	5.50 13.80 23.10 20.20 22.90 15.40 15.00 12.00 23.40 21.60
1968	5.90	4.80	5.40 6.60 17.70 15.30 17.80 17.20 17.40 16.00 14.60 11.30
1969	6.70	5.00	4.20 7.20 14.50 8.40 13.60 17.50 15.00 10.10 13.40 41.70
1970	36.80	4.30	8.30 20.80 24.70 12.90 14.80 18.00 17.10 19.40 20.20 41.80
1971	13.30	6.80	4.87 4.73 10.40 18.30 27.40 15.00 11.60 13.00 14.10 9.00
1972	39.10	7.10	4.20 7.00 15.30 15.00 12.40 10.50 18.50 17.00 16.10 12.40
1973	6.00	3.60	1.60 1.30 10.30 11.40 17.70 17.50 12.00 12.00 26.50 17.60
1974	9.70	4.40	3.10 1.90 5.90 9.60 13.40 14.00 10.30 13.40 20.10 12.50
1975	4.60	3.10	2.50 1.80 14.00 17.80 20.90 29.30 18.70 17.80 22.30 28.50
1976	9.10	5.00	4.40 6.70 10.20 10.70 7.60 7.70 10.60 15.10 22.00 6.30
1977	5.90	3.90	2.90 3.10 5.20 6.90 11.10 17.40 13.80 24.70 18.70 19.70
1978	6.40	5.80	4.40 12.60 23.60 17.10 15.30 20.10 14.50 13.40 16.10 9.60
1979	4.20	3.70	2.70 10.80 10.00 14.80 11.50 13.10 9.90 13.50 17.70 26.30
1980	15.40	9.50	4.80 4.50 13.20 20.70 10.60 10.90 9.30 13.70 14.10 18.10
1981	12.40	7.90	6.50 44.00 20.40 13.60 23.40 15.80 9.80 16.00 19.70 30.10
1982	12.90	6.10	4.00 5.30 8.20 8.60 17.60 17.20 13.60 23.00 14.20 8.60
1983	6.70	3.80	2.90 6.50 17.60 14.80 13.80 12.50 13.70 19.10 18.30 45.10
1984	8.70	5.90	3.30 2.10 6.30 13.30 16.10 20.90 13.50 15.80 17.70 13.30
1985	6.00	4.00	3.80 2.90 11.40 17.50 12.20 11.10 17.70 16.20 14.50 22.30
1986	5.90	3.20	2.70 12.30 23.20 19.10 17.60 15.30 21.60 14.90 19.70 7.60
1987	4.20	4.40	2.60 15.70 37.80 20.10 16.80 21.50 22.90 16.80 25.70 12.00
1988	4.30	4.60	2.80 2.00 8.30 7.80 26.60 30.20 10.90 18.40 15.50 13.10
1989	7.10	7.10	4.10 2.60 10.00 16.30 22.50 21.80 13.40 20.60 23.80 13.50
1990	14.00	7.40	6.00 5.00 21.80 11.70 11.50 20.80 16.00 20.10 17.40 14.20
1991	5.50	3.40	4.70 3.30 19.50 10.80 8.90 12.90 26.40 12.80 31.70 12.60
1992	6.00	3.40	2.80 7.90 31.90 18.20 17.40 26.50 19.30 11.90 19.90 16.00
1993	11.40	5.90	6.90 17.80 15.00 16.70 12.90 10.40 17.30 26.40 21.10 18.70
1994	7.10	4.80	2.90 2.70 14.00 22.50 15.00 24.90 14.00 12.50 25.00 9.20
1995	6.20	3.60	2.20 5.10 12.90 18.60 25.10 13.30 13.20 11.80 18.50 29.80
1996	30.90	10.20	11.10 8.10 24.20 19.80 15.90 15.30 11.80 12.10 34.70 34.90
1997	6.40	7.60	4.30 2.90 14.30 15.10 10.30 9.50 9.00 10.70 8.30 3.90
1998	2.80	2.60	1.20 6.40 12.50 9.70 18.00 20.20 15.80 11.80 10.40 24.70
1999	14.90	11.00	10.60 16.30 18.40 20.30 22.80 24.37 14.42 15.00 17.40 57.10
2000	19.70	10.10	7.30 2.74 15.70 23.30 16.50 17.20 15.70 17.80 16.10 29.60
SITE NO.=	2	FLOW	BOQUERON RIVER AT PELUCA (PEL)
1941	2.90	4.60	2.80 1.90 7.60 11.20 10.70 12.00 6.90 19.30 15.80 8.20
1942	3.00	2.50	3.00 5.90 5.40 13.70 10.20 11.40 10.90 12.20 8.40 9.80
1943	5.00	3.70	2.60 2.90 8.90 11.10 8.40 12.40 11.20 8.70 9.20 21.20
1944	3.90	4.60	2.00 4.40 16.00 8.80 11.30 15.30 10.20 19.20 22.60 38.40
1945	5.20	2.50	1.60 1.40 8.10 7.00 11.90 13.20 9.60 7.80 8.40 11.80
1946	3.80	1.80	1.20 1.50 4.80 6.60 12.60 6.40 6.90 3.60 8.70 22.70
1947	2.50	2.20	1.20 1.50 4.70 8.40 15.80 11.70 5.50 4.90 5.00 8.30
1948	2.90	1.70	1.30 1.30 3.60 5.20 10.20 7.60 6.70 5.90 10.30 6.30
1949	2.40	1.60	1.30 2.20 7.90 11.60 15.00 11.70 8.80 10.40 13.20 13.80
1950	3.10	3.60	1.90 4.30 9.10 7.50 21.20 9.50 5.60 5.60 10.90 19.20
1951	3.90	9.70	4.70 5.70 7.50 7.40 5.00 8.10 7.30 8.20 8.00 8.70

1952	3.70	2.20	1.40	2.70	4.40	6.40	11.70	13.90	9.00	10.90	5.90	16.30
1953	11.60	9.70	2.30	2.20	8.90	6.90	8.90	8.20	6.30	6.70	13.10	9.50
1954	3.40	2.60	1.80	3.90	8.20	10.50	13.30	15.10	7.40	6.10	19.20	21.60
1955	15.50	2.90	1.90	1.60	4.50	4.50	7.70	14.60	6.10	3.90	18.90	10.70
1956	13.50	4.70	4.90	4.10	14.40	9.00	12.90	6.70	7.30	5.10	16.80	13.60
1957	2.90	1.60	1.20	1.00	4.70	3.20	2.20	4.20	4.80	6.60	17.80	11.40
1958	8.80	3.40	2.80	1.80	4.60	4.20	10.40	10.30	11.10	6.10	9.00	10.60
1959	3.70	1.60	1.20	2.60	4.90	7.50	7.90	8.00	15.50	9.20	26.70	28.20
1960	15.00	2.30	2.00	10.50	8.70	8.80	9.10	10.10	5.60	6.60	9.60	26.30
1961	11.20	2.20	1.50	1.60	4.60	20.70	13.80	4.80	4.30	7.40	8.30	8.60
1962	5.60	1.80	1.20	1.40	5.70	5.40	10.10	11.20	6.90	7.80	9.90	6.90
1963	8.10	2.40	1.50	2.30	13.50	9.70	9.70	10.50	8.70	5.40	8.90	4.30
1964	2.10	1.20	1.10	1.40	6.70	13.00	10.40	7.90	6.44	5.06	9.30	3.90
1965	3.80	1.80	1.60	1.50	5.10	8.75	11.41	6.75	7.10	10.60	14.60	13.20
1966	5.70	2.90	2.30	7.90	10.10	5.70	5.20	6.60	8.40	6.70	26.00	14.50
1967	5.10	3.00	2.40	6.50	9.90	9.00	14.90	6.60	6.20	4.20	10.60	9.50
1968	2.20	2.00	3.10	2.80	6.80	6.50	8.90	8.30	8.20	8.40	7.30	6.20
1969	2.70	2.30	2.00	2.20	6.10	3.30	5.40	8.50	6.40	6.80	7.30	22.50
1970	19.70	2.90	2.00	8.30	14.30	7.70	8.60	9.70	7.40	6.70	14.20	29.10
1971	4.70	2.00	2.70	1.10	4.70	9.80	17.30	10.10	7.50	7.60	9.80	4.40
1972	27.80	6.20	2.00	5.00	12.40	8.40	6.70	6.80	10.90	9.40	7.60	8.00
1973	2.80	1.60	0.80	0.70	5.00	6.40	9.40	7.50	5.50	5.70	20.80	12.50
1974	5.40	2.00	1.50	1.30	3.10	6.70	8.90	7.40	5.00	6.90	16.10	6.20
1975	1.80	0.90	0.70	0.50	8.80	14.20	18.40	20.20	6.80	9.10	11.70	20.20
1976	4.60	2.30	1.90	4.50	4.60	6.30	4.20	4.00	6.90	7.00	11.90	2.80
1977	2.90	1.60	1.10	1.30	2.40	3.20	5.70	7.50	8.90	13.80	10.30	10.60
1978	1.00	2.30	1.70	8.50	13.70	10.70	4.20	9.50	7.20	5.10	8.40	4.20
1979	2.40	1.20	0.80	5.30	4.70	7.30	5.20	5.60	4.60	5.80	9.30	18.90
1980	5.70	2.40	1.20	1.40	6.20	11.50	4.90	4.10	4.30	8.20	8.60	12.10
1981	6.20	3.40	3.20	30.00	13.10	8.70	13.60	7.80	4.80	6.40	11.90	20.80
1982	6.60	2.90	1.50	2.80	2.60	3.70	8.60	11.80	7.40	11.80	6.00	3.70
1983	2.90	1.50	0.90	2.70	9.10	7.90	8.70	8.30	7.90	9.40	10.00	33.20
1984	4.20	3.00	1.70	1.00	3.50	10.30	9.20	13.40	7.30	6.00	11.40	8.00
1985	1.90	2.10	2.00	1.70	5.50	9.70	6.60	5.60	10.20	8.30	8.40	14.90
1986	4.90	2.50	1.70	9.40	13.80	10.50	8.20	7.80	12.20	8.00	12.10	3.40
1987	1.40	1.50	0.70	12.30	19.30	9.60	7.60	9.20	11.40	9.30	16.60	5.80
1988	2.70	3.50	2.10	1.90	5.70	4.20	19.70	17.30	5.70	14.40	8.20	7.90
1989	3.20	4.20	1.70	1.10	7.70	9.70	13.70	13.10	5.70	11.40	14.00	8.20
1990	9.70	5.00	4.20	3.10	11.90	6.30	6.60	11.40	8.80	11.80	9.70	8.00
1991	3.40	2.50	2.00	1.80	15.50	5.60	5.10	6.70	15.10	5.80	21.00	6.70
1992	2.50	1.20	1.20	5.20	21.00	7.20	8.10	19.00	10.20	7.40	12.50	8.70
1993	5.50	2.60	4.00	9.20	7.30	11.00	9.50	7.70	11.00	14.40	13.00	13.10
1994	2.90	2.00	1.80	1.30	10.40	15.70	11.00	16.00	8.50	6.00	15.20	5.60
1995	3.90	1.70	1.20	1.80	4.30	11.90	13.20	5.20	6.40	4.80	13.70	17.70
1996	13.40	5.00	5.10	4.60	14.60	8.50	8.10	6.90	4.40	5.10	23.80	21.00
1997	3.10	3.80	1.60	1.10	8.30	8.10	3.60	4.90	5.10	5.20	3.80	1.90
1998	1.60	1.00	0.70	5.80	5.10	6.30	11.20	10.60	7.70	7.30	4.20	12.30
1999	5.60	2.90	3.20	6.30	9.00	8.20	15.10	11.50	6.90	7.60	12.50	37.50
2000	9.90	2.60	2.40	0.51	7.70	15.70	6.30	8.90	5.00	9.50	9.50	17.10
SITE NO.=	3	FLOW	CHAGRES RIVER AT CHICO (CHI)									
1941	15.00	22.10	17.50	11.90	22.20	37.30	28.10	37.50	40.40	75.60	66.90	43.40
1942	21.20	15.90	15.90	24.80	17.90	29.70	33.10	32.20	39.10	52.20	40.80	34.60
1943	28.80	20.50	15.80	17.00	33.60	35.40	27.30	31.90	31.60	45.40	41.10	76.60
1944	26.70	20.20	10.70	17.80	37.70	31.10	42.00	42.90	37.50	56.30	53.50	89.10
1945	29.40	17.80	11.20	11.40	25.30	28.90	30.70	40.20	36.10	34.80	31.40	65.60
1946	19.80	14.40	9.80	12.70	24.10	27.70	39.60	42.80	34.90	30.80	25.50	58.70
1947	19.90	13.60	8.60	9.50	13.90	22.90	32.20	33.70	28.50	32.10	35.60	39.30
1948	16.60	9.00	6.30	6.10	14.20	23.70	40.00	31.50	26.60	38.90	45.80	29.50
1949	15.00	9.40	6.90	7.20	23.50	39.10	51.00	48.30	38.30	45.00	61.30	53.50
1950	20.60	17.10	10.80	20.00	40.40	30.10	53.90	45.80	32.90	26.20	50.80	60.10
1951	19.70	43.20	23.20	19.40	25.80	30.50	33.20	24.80	28.70	24.80	28.90	28.20
1952	18.40	12.40	9.00	10.60	24.10	23.80	31.50	38.20	35.00	49.40	31.50	53.20
1953	41.40	27.00	14.00	12.50	37.60	27.60	32.60	31.40	28.10	33.60	39.60	34.30
1954	18.30	13.70	12.40	12.80	21.70	34.60	34.70	39.00	38.10	25.00	64.20	63.20
1955	64.80	18.30	12.70	10.20	15.30	17.50	28.30	48.70	31.40	28.50	77.00	44.00
1956	62.40	21.70	19.20	19.80	43.40	37.20	63.90	34.10	35.70	44.60	86.30	41.50
1957	17.50	11.60	8.20	6.90	13.10	12.70	11.90	13.90	18.20	30.60	49.00	33.00
1958	32.80	14.80	10.70	7.30	17.60	21.20	22.10	25.20	27.00	27.70	33.30	27.20
1959	12.70	8.60	6.70	9.70	17.90	17.50	16.40	18.40	32.10	33.20	54.90	89.50
1960	53.90	12.30	8.90	21.40	27.40	29.60	30.80	29.10	30.20	34.30	35.60	94.00
1961	18.40	10.10	8.20	11.90	18.50	43.10	26.80	33.50	31.50	37.70	45.00	28.40
1962	17.60	11.20	9.00	9.50	27.60	20.20	33.00	44.10	38.10	36.40	40.60	31.70
1963	37.80	19.30	12.90	27.30	39.00	41.30	47.70	45.70	49.40	37.70	43.90	25.30
1964	15.40	12.10	9.90	16.90	26.90	45.50	28.00	26.40	31.70	27.90	39.20	22.20
1965	18.20	14.10	11.90	10.70	23.70	33.10	23.20	30.70	40.30	50.80	50.10	51.40
1966	25.90	16.80	12.60	34.70	41.00	32.70	34.00	30.40	38.10	42.30	81.33	77.10

1967	33.90	19.90	13.40	31.20	43.00	49.50	44.80	33.90	35.30	30.50	36.10	37.10
1968	15.85	9.71	12.68	3.83	20.23	17.09	15.36	26.31	37.39	43.79	29.40	26.54
1969	10.62	9.51	10.78	14.43	33.14	21.56	27.33	30.47	30.26	28.15	35.36	77.23
1970	70.24	10.46	19.46	25.92	36.09	24.82	39.45	45.91	41.04	60.84	71.66	102.38
1971	43.60	16.27	12.60	11.89	15.07	28.48	46.40	38.70	33.20	31.10	39.30	21.60
1972	57.40	14.60	10.30	25.80	17.60	21.70	14.10	25.30	19.70	31.70	34.00	19.90
1973	11.90	8.40	5.60	5.10	16.30	28.40	28.30	32.30	28.30	36.10	60.40	46.00
1974	27.20	13.20	9.70	7.50	13.00	16.80	21.90	31.30	31.30	42.80	39.70	26.70
1975	12.10	7.50	5.10	7.06	25.51	28.80	44.80	52.00	34.70	46.60	58.00	58.00
1976	25.80	14.00	11.20	12.70	19.90	18.50	12.90	15.00	22.30	39.80	42.60	17.90
1977	15.80	11.00	8.20	8.20	14.70	17.10	22.50	28.80	26.70	56.30	45.20	33.10
1978	13.80	11.70	8.40	26.60	28.20	39.80	46.70	48.80	32.40	34.60	42.60	23.50
1979	12.10	8.90	6.90	17.80	17.10	23.70	27.30	36.70	31.70	28.50	42.80	41.10
1980	30.80	18.50	10.10	10.70	22.30	29.30	17.90	21.20	23.50	30.40	43.60	39.60
1981	23.20	17.70	14.40	100.60	46.30	37.20	40.00	38.90	27.90	33.10	40.70	61.60
1982	32.10	14.60	9.20	12.30	22.00	19.20	32.70	31.10	29.50	45.90	31.90	20.40
1983	15.30	8.50	6.20	5.40	36.60	22.20	19.60	21.60	27.70	34.30	40.00	76.50
1984	25.60	15.50	8.90	6.30	18.70	30.30	39.10	67.80	48.40	55.10	55.80	35.10
1985	19.10	12.90	12.90	9.40	19.50	34.20	26.20	21.20	37.80	30.60	29.80	51.90
1986	17.70	11.80	12.10	21.90	49.30	30.60	25.30	22.00	36.60	57.60	65.81	30.20
1987	13.30	12.60	8.20	28.50	55.90	36.00	36.40	44.20	51.50	39.70	60.60	29.80
1988	13.70	14.50	9.10	7.00	24.50	22.30	43.80	57.20	40.80	50.80	44.40	32.40
1989	20.60	19.90	12.10	8.60	17.20	31.90	34.40	37.80	32.30	58.50	67.40	36.20
1990	29.70	17.60	14.00	22.30	74.50	21.00	19.10	34.10	44.70	57.40	58.60	63.00
1991	19.60	12.70	15.40	11.80	31.40	21.90	22.80	23.00	33.30	33.40	57.30	33.60
1992	16.40	10.90	8.80	14.00	46.60	45.20	34.90	49.80	41.10	33.40	48.80	31.10
1993	25.30	12.20	17.00	26.80	36.30	47.80	36.10	25.80	37.70	58.10	40.70	26.50
1994	12.90	8.60	7.30	6.40	25.40	36.70	37.90	33.00	34.40	37.00	65.20	30.30
1995	15.40	8.30	4.80	6.10	19.10	36.40	43.60	41.30	28.70	31.00	38.50	50.00
1996	73.20	30.50	22.60	19.30	47.50	42.50	45.30	49.90	33.70	42.10	83.20	94.70
1997	29.00	16.80	9.10	7.80	31.30	26.80	16.20	13.50	18.40	24.60	21.90	21.60
1998	12.20	8.40	5.00	14.30	39.60	24.00	31.00	33.90	34.20	33.50	38.50	54.80
1999	30.80	24.00	14.80	17.50	25.70	36.20	45.30	53.80	44.30	40.50	52.10	126.70
2000	50.90	19.60	11.70	9.00	21.80	41.70	28.20	32.80	40.80	53.90	33.30	84.20
SITE NO.=	4	FLOW	GATUN RIVER AT CIENTO	(CNT)								
1941	1.90	2.20	1.65	0.14	3.41	6.10	3.30	5.78	7.85	24.58	16.66	7.18
1942	3.71	2.18	3.17	2.73	0.85	4.00	11.91	12.55	11.76	17.11	11.91	9.05
1943	4.04	2.26	1.82	3.20	5.60	7.90	6.52	7.20	7.00	10.60	13.00	19.50
1944	4.60	2.30	1.20	2.80	9.10	5.00	7.40	12.10	6.00	20.40	15.40	20.20
1945	5.70	3.30	1.50	0.90	2.70	3.20	3.28	6.52	4.79	11.36	16.11	23.17
1946	9.74	2.45	0.78	1.20	2.60	3.30	9.20	6.40	8.90	6.90	7.80	16.00
1947	4.70	2.50	1.81	1.20	2.10	3.37	12.14	11.05	7.80	9.00	10.80	9.40
1948	4.20	2.40	1.50	0.80	2.70	3.20	6.60	4.90	4.80	5.80	9.90	3.90
1949	2.00	1.30	1.00	0.90	2.60	6.30	6.80	7.00	7.10	9.90	19.50	9.80
1950	3.00	2.30	1.70	1.80	3.70	5.90	8.60	7.20	6.20	6.20	17.30	20.90
1951	3.60	4.70	2.40	2.10	4.20	4.00	5.50	8.70	7.40	10.00	10.30	7.00
1952	3.10	2.30	1.90	1.50	2.50	5.10	8.00	7.40	7.30	11.40	8.30	13.50
1953	6.90	4.70	2.60	2.40	4.90	3.90	8.80	8.00	9.30	17.00	18.80	9.00
1954	3.90	2.80	1.40	1.60	6.00	5.90	11.40	9.50	9.10	8.80	15.40	10.10
1955	8.40	2.80	1.60	1.10	1.70	3.90	4.80	9.20	5.60	8.20	14.40	8.10
1956	6.50	2.40	1.80	2.00	6.60	6.40	9.10	5.60	6.60	10.50	15.70	5.30
1957	0.90	0.50	0.40	0.30	0.50	0.50	0.50	0.60	1.30	5.20	11.50	4.00
1958	4.10	3.10	2.40	1.50	3.20	4.50	4.80	3.70	6.50	6.10	6.80	5.90
1959	2.60	1.60	1.10	1.00	1.90	3.50	3.30	4.10	8.00	9.90	16.80	26.00
1960	4.70	0.90	0.90	3.50	6.10	5.70	4.60	5.90	3.90	8.30	11.40	22.10
1961	2.80	1.60	1.10	1.10	2.50	8.90	7.10	6.80	8.20	12.70	15.70	8.00
1962	3.50	2.20	1.50	1.00	13.40	10.90	15.40	13.30	11.20	11.90	13.20	9.50
1963	9.70	2.90	1.60	1.30	7.50	13.30	12.20	19.60	15.30	18.80	34.10	6.20
1964	3.10	1.40	1.00	1.60	7.40	15.80	26.60	23.87	15.81	26.40	30.80	10.70
1965	4.60	3.30	2.00	1.10	5.60	8.07	10.95	11.10	12.09	35.50	56.20	25.50
1966	7.58	3.28	1.68	1.91	8.83	5.20	5.54	5.83	8.85	8.49	29.21	11.86
1967	2.83	1.93	1.91	3.35	4.12	9.99	10.33	7.00	7.88	7.46	20.94	15.15
1968	5.45	2.75	2.07	1.15	2.69	3.31	1.44	4.96	6.01	7.21	5.08	3.81
1969	1.86	2.53	1.41	2.20	3.17	0.74	2.10	6.66	6.95	8.93	12.54	17.11
1970	9.86	2.48	2.50	3.68	6.05	5.99	8.48	7.65	6.53	12.47	29.44	26.17
1971	7.10	3.20	2.70	2.00	2.50	3.80	8.40	9.30	6.40	10.10	12.90	4.30
1972	10.60	3.00	1.80	3.20	4.10	7.20	5.00	3.60	7.20	9.50	8.80	10.50
1973	5.40	4.00	1.20	0.90	4.50	9.50	10.10	11.10	12.10	5.70	21.00	9.30
1974	5.00	2.80	1.90	1.20	1.80	3.60	4.30	5.30	4.65	12.60	19.00	9.20
1975	2.40	2.00	0.98	0.70	1.16	4.10	9.40	10.40	2.70	13.40	18.20	16.10
1976	4.40	2.20	1.40	1.60	2.10	3.20	0.60	2.10	6.80	9.80	13.40	5.10
1977	2.30	1.10	0.60	0.50	0.90	1.70	2.70	8.10	7.40	8.80	9.40	7.50
1978	3.00	2.50	1.70	4.70	5.20	6.50	9.50	11.30	8.40	7.40	15.90	8.10
1979	3.80	1.30	1.30	2.10	3.70	5.90	5.00	8.00	6.50	13.70	15.00	6.60
1980	7.10	3.70	2.10	1.60	4.70	7.60	3.70	5.10	4.60	7.90	9.40	8.60
1981	4.80	3.10	2.20	14.60	16.30	14.20	11.80	8.80	6.30	10.10	22.20	25.20

1997	3.50	2.20	1.40	1.10	1.30	2.50	1.60	1.40	2.60	6.00	6.00	2.10
1998	1.20	0.80	0.50	0.50	1.50	2.00	4.80	5.10	5.50	10.40	8.60	10.40
1999	5.40	2.60	1.70	1.80	6.10	10.60	5.80	11.70	15.10	11.40	18.00	15.90
2000	7.70	3.70	2.00	1.60	3.80	6.00	5.40	7.70	10.10	9.00	9.60	6.60
SITE NO. =	6	FLOW	CIRI GRANDE AT LOS CANONES (CAN)									
1941	7.42	6.69	6.47	4.75	9.19	15.25	11.83	19.56	20.15	23.24	19.87	7.40
1942	5.67	3.85	5.36	3.81	3.28	9.32	11.74	21.75	19.75	28.57	18.71	13.90
1943	6.83	2.11	3.47	3.13	5.69	8.82	8.21	10.83	11.25	14.64	12.62	17.44
1944	8.62	4.08	2.01	2.97	9.40	7.81	9.67	13.50	11.56	25.71	15.75	12.80
1945	5.68	3.09	1.45	0.96	4.57	8.11	14.52	16.67	11.79	12.97	23.49	18.41
1946	5.87	2.87	1.23	1.39	8.15	9.21	10.90	15.09	13.98	10.53	9.98	6.91
1947	3.52	3.33	1.57	1.41	6.10	12.74	7.59	8.64	12.67	15.28	16.66	9.85
1948	4.30	1.60	1.20	0.90	1.90	2.70	10.50	12.30	11.70	10.80	22.10	5.90
1949	2.40	1.40	0.90	0.80	2.60	15.00	10.40	13.10	18.70	17.70	31.20	24.50
1950	4.00	2.20	1.30	0.90	7.00	13.20	13.70	20.30	13.30	18.30	23.90	24.00
1951	7.30	4.00	2.20	1.40	7.20	8.90	8.20	9.00	15.50	13.10	19.90	11.30
1952	4.80	2.20	1.20	1.00	4.00	10.60	8.10	8.60	14.80	21.50	13.30	19.00
1953	14.10	5.30	2.70	1.90	8.60	7.70	7.40	6.10	7.60	22.50	22.60	12.10
1954	6.00	2.70	1.70	1.40	6.80	7.20	17.50	13.10	18.00	15.20	29.30	15.20
1955	16.40	4.90	2.40	1.90	3.80	15.30	10.80	18.10	22.20	19.10	29.60	16.80
1956	17.00	5.10	2.90	2.70	10.50	15.40	14.50	10.70	17.40	26.40	18.50	10.50
1957	4.10	2.00	1.30	0.90	4.20	4.20	4.10	8.30	9.10	21.40	13.90	11.10
1958	6.80	5.20	2.70	1.90	6.20	7.50	10.50	14.20	13.80	18.20	14.70	7.60
1959	4.66	2.00	1.40	1.20	1.90	3.52	3.27	3.46	5.18	16.74	11.01	17.70
1960	10.41	4.14	4.77	4.24	7.18	10.40	7.13	8.73	11.13	12.09	16.39	30.36
1961	7.13	2.87	1.56	1.15	2.27	5.42	6.09	6.08	13.46	19.43	14.44	9.03
1962	4.08	2.87	0.98	1.32	3.44	5.02	5.37	11.58	11.83	12.63	11.21	12.07
1963	4.32	2.65	1.12	3.59	6.47	9.95	8.99	11.83	11.05	13.90	15.12	6.88
1964	7.06	2.19	1.48	0.52	3.04	13.27	12.99	14.01	15.29	16.04	17.11	7.93
1965	8.74	2.67	1.46	0.44	2.13	4.17	6.40	7.49	6.37	11.49	12.48	8.98
1966	5.27	1.63	1.29	2.75	10.17	12.88	10.48	9.90	17.95	18.06	24.04	18.16
1967	9.20	3.53	1.65	3.45	6.90	21.60	14.56	15.16	21.89	20.43	17.47	12.99
1968	5.12	3.10	2.42	1.22	3.64	10.21	8.17	10.58	13.99	19.60	14.49	9.02
1969	4.72	2.56	1.59	0.81	4.09	7.19	3.67	6.24	12.80	14.37	13.01	8.64
1970	13.34	3.95	3.32	3.40	11.05	10.26	12.41	18.69	13.90	17.05	17.61	34.61
1971	23.62	6.67	3.53	3.16	9.59	15.07	15.54	18.03	18.32	17.07	23.03	5.08
1972	4.53	2.61	2.31	4.76	6.22	10.03	6.59	8.51	14.35	11.37	12.20	4.75
1973	3.44	0.76	0.95	0.40	3.77	13.50	12.09	11.46	18.23	19.70	24.42	9.14
1974	6.15	2.80	2.04	1.16	3.62	9.20	9.46	10.13	12.73	29.51	16.48	6.49
1975	2.24	1.80	1.83	1.34	4.54	8.63	8.90	18.84	21.37	22.00	29.42	17.51
1976	5.91	4.11	2.45	1.55	5.12	7.61	5.13	4.21	9.80	16.18	12.84	3.06
1977	1.54	2.01	1.47	1.47	3.24	6.31	4.79	9.69	10.31	17.12	11.55	9.87
1978	3.01	2.16	0.93	8.34	7.94	14.08	13.78	16.00	16.70	19.20	16.30	9.40
1979	5.10	3.90	3.50	4.00	6.50	10.70	10.60	15.90	19.40	19.00	6.30	5.50
1980	10.70	3.70	2.00	1.40	5.40	10.90	8.00	19.20	9.00	15.40	15.60	12.60
1981	11.40	9.20	7.40	13.10	21.20	22.80	20.70	14.80	14.60	21.90	21.00	19.80
1982	7.90	3.50	2.30	2.60	4.60	7.50	6.30	4.70	8.70	17.10	12.60	3.80
1983	2.40	1.50	0.90	0.50	4.40	5.70	4.10	5.30	17.20	12.70	12.40	15.70
1984	5.84	4.66	2.30	1.40	6.40	12.20	10.90	17.10	16.70	17.40	21.42	11.40
1985	5.82	1.62	1.30	0.90	2.50	7.10	3.10	12.60	20.80	14.90	10.92	11.80
1986	4.00	2.10	1.40	4.10	5.90	12.70	8.40	6.70	9.80	25.80	22.54	10.48
1987	2.80	1.90	1.10	1.70	5.30	5.40	7.70	12.80	14.00	24.30	10.10	8.00
1988	2.80	1.70	0.90	4.10	8.00	8.60	15.10	17.00	21.30	16.50	9.50	
1989	6.70	3.50	2.30	1.20	4.80	5.50	10.10	14.70	13.70	16.00	16.20	10.50
1990	5.80	3.00	2.20	1.30	5.20	7.70	10.10	10.50	19.40	29.20	18.80	16.20
1991	3.80	1.90	2.40	1.20	4.60	6.10	4.70	5.60	11.00	18.00	14.20	11.30
1992	3.30	1.70	1.20	1.60	6.50	11.60	8.30	13.20	15.10	12.30	11.30	7.30
1993	4.40	2.90	2.10	2.00	4.90	10.30	7.50	6.30	13.80	14.60	22.00	12.60
1994	4.60	2.20	1.60	1.40	5.00	8.00	5.80	4.50	9.70	13.90	14.30	5.00
1995	2.90	1.60	1.00	1.30	7.80	12.80	10.30	11.20	11.60	13.00	12.60	8.60
1996	22.60	6.90	5.10	2.70	7.90	12.00	18.00	22.30	17.50	23.00	15.50	14.70
1997	5.60	3.30	1.70	1.20	2.00	3.60	2.90	2.40	6.00	7.90	9.60	4.10
1998	2.30	1.60	0.70	0.90	2.60	4.70	8.40	6.80	9.60	15.30	8.80	13.30
1999	6.80	3.50	2.60	2.90	9.20	13.20	8.80	20.90	27.30	13.20	20.40	26.70
2000	11.60	4.20	2.20	1.80	7.20	16.40	9.60	9.90	12.40	9.50	12.50	10.10

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SITE STATISTICS

FILLED DATA SET

0 EXISTING SITE NO. 1 FLOW PEQUENI RIVER AT CANDELARIA (CDL)

ORIGINAL SITE NO. 2

TOTAL NO. OF DATA POINTS 720

ONON TRANSFORMED DATA

MEAN:

10.695 6.015 4.506 7.316 15.072 15.463 17.362 17.518 15.350 16.048 20.103 21.803

S.D.: 7.537 2.937 2.225 6.580 6.386 4.663 5.436 5.110 3.645 4.679 6.698 12.005

OLOG TRANSFORMED DATA

MEAN:
 1.294125 1.198541 1.156957 1.217220 1.386220 1.398166
 1.429021 1.432208 1.399574 1.409624 1.468876 1.473711

S.D.: 0.129023 0.069080 0.061637 0.125563 0.104570 0.083517
 0.083374 0.080186 0.061760 0.071091 0.090227 0.156416

0 EXISTING SITE NO. 2 FLOW BOQUERON RIVER AT PELUCA (PEL)
 ORIGINAL SITE NO. 6
 TOTAL NO. OF DATA POINTS 720

ONON TRANSFORMED DATA

MEAN:
 5.625 2.823 1.985 3.875 8.178 8.542 9.890 9.617 7.701 8.076 12.098 13.178

S.D.: 4.828 1.677 1.009 4.357 4.159 3.290 3.999 3.624 2.455 3.253 5.125 8.436

OLOG TRANSFORMED DATA

MEAN:
 1.178407 1.104841 1.077196 1.128197 1.249187 1.261732
 1.290081 1.285619 1.244090 1.250914 1.333647 1.339581

S.D.: 0.108197 0.050458 0.034849 0.101133 0.093002 0.073987
 0.086014 0.077283 0.057320 0.071242 0.094804 0.145520

0 EXISTING SITE NO. 3 FLOW CHAGRES RIVER AT CHICO (CHI)
 ORIGINAL SITE NO. 3
 TOTAL NO. OF DATA POINTS 720

ONON TRANSFORMED DATA

MEAN:
 26.088 14.974 11.184 15.734 28.079 29.728 32.394 34.997 33.851 39.891 47.473 47.597

S.D.: 15.195 6.075 4.020 13.286 12.147 8.710 10.837 10.955 6.877 11.067 14.717 24.144

OLOG TRANSFORMED DATA

MEAN:
 1.526885 1.386771 1.318643 1.377876 1.561141 1.588496
 1.612499 1.639947 1.636470 1.688050 1.745977 1.726433

S.D.: 0.154446 0.093098 0.079011 0.152342 0.127272 0.096589
 0.115371 0.108745 0.070037 0.091741 0.107243 0.168006

0 EXISTING SITE NO. 4 FLOW GATUN RIVER AT CIENTO (CNT)
 ORIGINAL SITE NO. 5
 TOTAL NO. OF DATA POINTS 720

ONON TRANSFORMED DATA

MEAN:
 4.906 2.529 1.710 2.124 4.405 5.865 7.142 8.060 7.738 11.423 15.532 11.717

S.D.: 2.767 0.973 0.777 2.110 3.045 2.957 4.078 4.051 2.860 5.542 8.058 6.657

OLOG TRANSFORMED DATA

MEAN:
 1.166779 1.096649 1.067621 1.078828 1.150282 1.193462
 1.223240 1.246954 1.243513 1.319072 1.390350 1.318260

S.D.: 0.073551 0.033169 0.027977 0.060308 0.081442 0.076605
 0.095028 0.090247 0.067939 0.096896 0.114867 0.124310

0 EXISTING SITE NO. 5 FLOW TRINIDAD RIVER AT EL CHORRO (CHR)
 ORIGINAL SITE NO. 4
 TOTAL NO. OF DATA POINTS 720

ONON TRANSFORMED DATA

MEAN:
 4.334 2.270 1.454 1.555 4.001 6.304 6.367 8.206 10.142 13.424 13.190 8.931

S.D.: 2.428 0.799 0.664 1.272 2.150 2.794 3.029 3.477 3.682 3.974 4.584 4.885

OLOG TRANSFORMED DATA

MEAN:
 1.151204 1.087941 1.058276 1.060568 1.141428 1.206053
 1.206918 1.252137 1.296722 1.363581 1.357401 1.264834

S.D.: 0.064168 0.027841 0.024341 0.042091 0.062948 0.073346
 0.077497 0.084377 0.080639 0.072439 0.081577 0.100134

0 EXISTING SITE NO. 6 FLOW CIRI GRANDE AT LOS CANONES (CAN)
 ORIGINAL SITE NO. 1
 TOTAL NO. OF DATA POINTS 720

ONON TRANSFORMED DATA

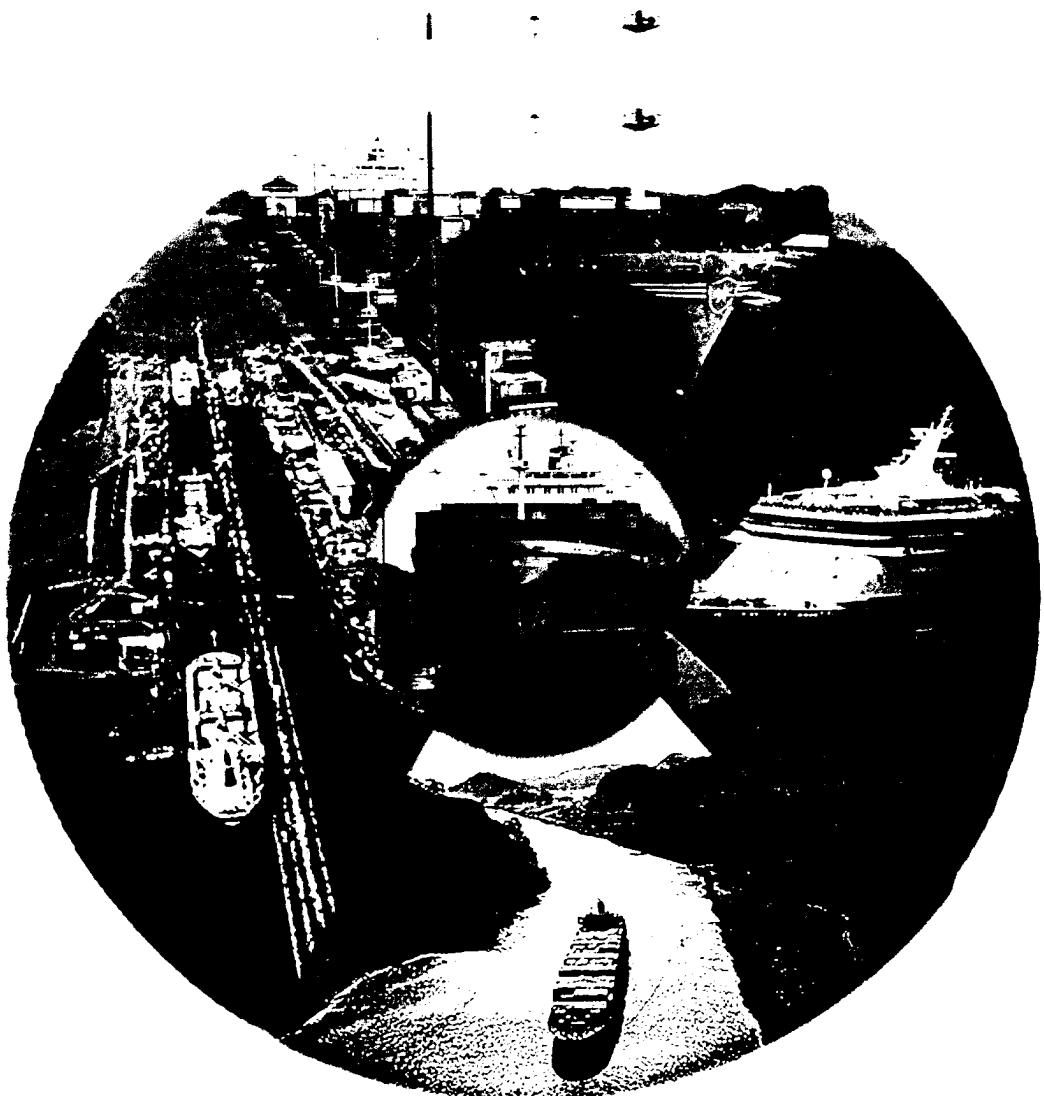
MEAN:
 6.741 3.163 2.147 2.175 5.825 9.869 9.314 11.883 14.237 17.581 16.872 12.256

S.D.:

4.496 1.559 1.334 1.990 3.064 4.123 3.751 4.981 4.397 4.933 5.519 6.364
 LOG TRANSFORMED DATA
 MEAN:
 1.211240 1.116556 1.082141 1.080950 1.192428 1.289183
 1.277891 1.328518 1.377293 1.433809 1.420514 1.331795
 S.D.:
 0.099288 0.048238 0.043670 0.059164 0.075109 0.087984
 0.083097 0.101343 0.079381 0.076608 0.086715 0.113844
 0 CORRELATION
 OSITE NO. 1
 0 LAG ONE CORRELATION =0.385515 NO. OF DATA POINTS USED = 719.
 OSITE NO. 2
 0 LAG ONE CORRELATION =0.338500 NO. OF DATA POINTS USED = 719.
 OSITE NO. 3
 0 LAG ONE CORRELATION =0.534296 NO. OF DATA POINTS USED = 719.
 OSITE NO. 4
 0 LAG ONE CORRELATION =0.559713 NO. OF DATA POINTS USED = 719.
 OSITE NO. 5
 0 LAG ONE CORRELATION =0.625768 NO. OF DATA POINTS USED = 719.
 OSITE NO. 6
 0 LAG ONE CORRELATION =0.591245 NO. OF DATA POINTS USED = 719.
 0 SPATIAL CORRELATION MATRIX
 FILLED TRANSFOMED DATA SET
 ALL SITES IN FINAL DATA SET
 1.000 0.893 0.426 0.559 0.410 0.476 0.590 0.570 0.234 0.376
 0.225 0.293
 0.000 1.000 0.473 0.569 0.398 0.460 0.555 0.625 0.280 0.392
 0.250 0.299
 0.000 0.000 1.000 0.620 0.563 0.547 0.266 0.322 0.560 0.351
 0.182 0.217
 0.000 0.000 0.000 1.000 0.726 0.796 0.392 0.426 0.342 0.535
 0.287 0.351
 0.000 0.000 0.000 1.000 0.859 0.298 0.305 0.261 0.394
 0.338 0.343
 0.000 0.000 0.000 0.000 1.000 0.347 0.350 0.268 0.425
 0.291 0.385
 0.000 0.000 0.000 0.000 0.000 1.000 0.894 0.427 0.559
 0.410 0.476
 0.000 0.000 0.000 0.000 0.000 0.000 1.000 0.472 0.567
 0.397 0.459
 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000 0.620
 0.563 0.547
 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.000
 0.725 0.796
 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 1.000 0.859
 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 0.000 1.000

Appendix F

MHTS PC Package, PAR Modeling, Rainfall and Streamflow Series



MADDEN LAKE

**INPUT AND OUTPUT FILES
RAINFALL
MHTS PC PACKAGE - PAR MODEL FITTING**

BASIN	AVERAGE	RAINFALL	OVER	DRAINAGE	AREA	ABOVE	MADDEN	LAKE	mm (1911-95)		
54	75	36	169	397	245	129	190	318	523	307	83
49	30	5	83	268	299	241	261	266	409	407	126
41	30	13	20	414	340	244	288	355	322	301	148
17	20	37	68	209	289	131	325	496	400	355	146
19	168	42	349	229	403	502	333	265	375	463	223
45	72	17	288	286	269	417	260	299	442	303	102
2	4	14	53	319	297	437	384	309	259	529	187
105	42	40	184	411	405	321	231	310	354	233	33
100	40	17	339	198	218	253	319	427	332	261	199
50	23	49	103	261	306	492	332	265	443	289	56
29	74	26	207	292	349	390	469	455	496	278	268
168	51	34	98	399	344	125	219	265	344	345	300
49	36	12	47	232	342	251	226	335	654	274	139
42	66	14	193	363	280	505	416	423	215	241	84
96	25	9	144	201	465	373	260	288	460	260	162
12	35	41	104	262	476	398	369	353	369	360	349
80	117	86	240	471	352	613	223	325	248	416	498
83	27	120	51	229	340	323	378	310	424	449	221
7	51	47	48	250	334	333	375	267	333	305	128
80	25	41	204	345	177	317	164	315	222	219	94
81	36	146	39	493	357	293	246	386	431	818	253
92	8	42	158	311	271	198	328	305	564	644	240
125	22	57	82	369	324	430	305	311	178	461	237
34	4	27	77	417	252	305	256	309	391	433	205
76	64	22	64	396	346	585	409	298	328	1093	396
65	18	7	82	420	197	308	309	367	376	349	74
154	30	22	60	302	288	338	284	374	381	504	500
37	51	30	209	665	411	281	494	329	309	286	496
27	1	28	15	138	352	162	332	372	341	485	213
72	35	18	58	256	199	233	308	282	316	358	70
41	120	86	78	313	377	277	291	324	550	365	82
30	19	73	97	310	334	230	319	307	415	190	268
87	63	49	118	346	348	210	292	384	331	241	441
42	29	23	213	271	320	287	442	274	498	268	369
29	11	10	111	309	360	435	442	218	238	310	238
18	11	21	36	349	330	429	195	377	257	218	259
8	32	16	81	120	318	215	320	245	269	234	238
30	8	10	33	209	264	422	234	236	284	364	93
9	12	14	63	245	488	367	324	322	364	374	110
17	41	10	137	325	372	536	386	263	188	354	354
33	164	14	162	327	219	258	383	361	361	259	158
40	8	2	114	333	311	392	371	438	520	234	432
238	42	59	108	413	161	297	238	197	375	359	204
32	70	32	75	392	383	423	346	382	309	459	258
265	27	75	22	174	291	348	470	254	240	607	220
238	88	105	134	464	307	437	312	276	339	433	163
24	34	7	25	233	191	166	191	193	387	415	155
123	56	63	37	288	338	369	274	310	242	321	114
21	10	7	85	190	368	231	330	416	358	306	454
111	23	56	243	461	267	372	317	266	336	301	545
30	8	16	160	244	512	242	319	355	340	239	159
58	16	28	113	359	217	291	338	267	369	310	235
129	74	19	277	345	392	403	455	301	218	279	66
4	15	14	122	190	398	364	383	266	416	398	104
43	11	8	29	293	252	231	280	347	388	469	248
88	21	36	286	381	263	322	343	390	418	577	444
51	32	54	247	268	525	392	293	329	363	423	232
9	66	75	46	348	308	285	306	233	453	323	133
65	22	70	132	309	157	270	360	365	189	294	367
384	89	68	291	457	202	300	389	347	297	356	418
79	31	118	12	346	394	430	353	325	367	333	51
296	40	21	232	306	370	159	204	293	357	240	120
43	27	8	21	294	271	341	306	296	358	517	205
32	156	35	56	166	313	258	210	346	325	330	100
26	25	24	36	411	381	406	343	298	556	353	335
42	29	38	123	203	199	72	233	323	257	214	32
81	11	22	40	235	221	189	370	291	447	277	122
30	57	64	277	401	345	329	332	296	307	357	104
9	28	29	238	186	227	376	252	192	308	405	331
118	95	24	55	254	340	203	322	225	301	333	235
177	54	69	620	304	355	362	296	204	260	299	301
81	19	12	100	196	268	320	186	256	428	137	57
30	24	29	163	310	236	173	226	409	475	345	485
45	58	11	20	196	325	305	467	228	377	317	88
63	27	69	53	203	366	280	206	383	281	201	322

62	10	48	248	299	334	146	224	339	492	295	72
43	57	12	416	514	309	423	359	411	442	497	179
20	117	44	58	401	317	528	449	353	517	321	125
64	128	18	30	184	286	414	348	238	373	396	210
78	13	52	45	326	152	274	352	353	561	282	218
30	48	70	120	362	259	285	246	393	304	437	95
35	20	25	173	523	405	299	426	300	329	272	158
97	14	180	267	313	561	220	197	434	426	262	146
39	37	85	44	416	404	255	348	251	363	511	91
95	11	49	104	301	479	418	380	282	295	364	345

BASIN AVERAGE RAINFALL OVER DRAINAGE AREA ABOVE MADDEN LAKE mm (1911-95)

Minimum BIC Order Determination
Maximum Permissible Order 10

PAR	Model	Orders
0	0	0 0 0 0 0 0 1 0 0 0 0

Total Length of Series = 1020

Concentrated Log-Likelihood = -4.45177E+03
Number of Parameters = 25

Overall AIC = 8.44700E+06
Overall BIC = 8.44712E+06

Likelihood Ratio Test for Nonperiodic VS Periodic Correlations
AR(1) Model Fit to Detrended Series
Concentrated Log-Likelihood = -4.44959E+03
Chi-SQ = -4.35 on 0 DF, S.L. = 1.00E+00

Overall Portmanteau Test
Q = 139.53 ON 119 DF S.L. = .9505E-01

Overall Portmanteau Test - Squared-Residuals
Q = 141.80 ON 120 DF S.L. = .8369E-01

Periodic Means and Standard Deviations			
Period	Mean	S.D.	Number of Data Points
1	6.944707E+01	6.661081E+01	85
2	4.280003E+01	3.629545E+01	85
3	3.970589E+01	3.268092E+01	85
4	1.301412E+02	1.052418E+02	85
5	3.143412E+02	9.745292E+01	85
6	3.202000E+02	8.399829E+01	85
7	3.199294E+02	1.083572E+02	85
8	3.161294E+02	7.655491E+01	85
9	3.169530E+02	6.348079E+01	85
10	3.653765E+02	9.544015E+01	85
11	3.600117E+02	1.357938E+02	85
12	2.155059E+02	1.278824E+02	85

Period 1		
Residual Variance	BIC	AIC
4.43700E+03	3.77145E+05	3.77145E+05

QA(10) = 12.56 ON 10 DF is not significant at the 5 percent level
QAA(10) = 5.52 ON 10 DF is not significant at the 5 percent level

Period 2		
Residual Variance	BIC	AIC
1.31736E+03	1.11976E+05	1.11976E+05

QA(10) = 5.61 ON 10 DF is not significant at the 5 percent level
QAA(10) = 11.86 ON 10 DF is not significant at the 5 percent level

Period 3		
Residual Variance	BIC	AIC

Residual Variance	BIC	AIC
1.06804E+03	9.07836E+04	9.07836E+04

QA(10) = 11.56 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 17.10 ON 10 DF is not significant at the 5 percent level

Period 4		
Residual Variance	BIC	AIC
1.10758E+04	9.41446E+05	9.41446E+05

QA(10) = 11.89 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 4.80 ON 10 DF is not significant at the 5 percent level

Period 5		
Residual Variance	BIC	AIC
9.49707E+03	8.07251E+05	8.07251E+05

QA(10) = 19.68 on 10 DF, S.L. = 3.243E-02
 QAA(10) = 12.35 ON 10 DF is not significant at the 5 percent level

Period 6		
Residual Variance	BIC	AIC
7.05571E+03	5.99736E+05	5.99736E+05

QA(10) = 7.21 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 17.05 ON 10 DF is not significant at the 5 percent level

Period 7		
Residual Variance	BIC	AIC
1.17413E+04	9.98010E+05	9.98010E+05

QA(10) = 16.20 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 7.13 ON 10 DF is not significant at the 5 percent level

Period 8		
Residual Variance	BIC	AIC
5.14624E+03	4.37435E+05	4.37432E+05

Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.2467	.0718	.0000	.1085	.0142

QA(10) = 6.00 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 22.64 on 10 DF, S.L. = 1.217E-02

Period 9		
Residual Variance	BIC	AIC
4.02981E+03	3.42534E+05	3.42534E+05

QA(10) = 9.08 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 6.54 ON 10 DF is not significant at the 5 percent level

Period 10		
Residual Variance	BIC	AIC

9.10882E+03 7.74250E+05 7.74250E+05

QA(10) = 10.06 ON 10 DF is not significant at the 5 percent level
QAA(10) = 10.17 ON 10 DF is not significant at the 5 percent level

Period 11
=====

	BIC	AIC
Residual Variance	1.56740E+06	1.56740E+06

QA(10) = 12.77 ON 10 DF is not significant at the 5 percent level
QAA(10) = 12.45 ON 10 DF is not significant at the 5 percent level

Period 12
=====

	BIC	AIC
Residual Variance	1.39008E+06	1.39008E+06

QA(10) = 16.92 ON 10 DF is not significant at the 5 percent level
QAA(10) = 14.18 ON 10 DF is not significant at the 5 percent level

GATUN DOWNSTREAM

BASIN	AVERAGE	RAINFALL OVER DRAINAGE	BASIN	DOWNSTREAM	FROM MADDEN LAKE	mm (1911-95)
44	43	38	135	451	275	177
23	50	20	62	253	255	257
90	40	9	71	373	253	243
29	21	23	67	301	360	122
60	155	43	315	227	321	347
61	72	56	147	326	243	299
48	26	9	96	297	296	336
111	15	26	154	356	221	165
72	22	19	249	208	236	222
32	20	23	38	193	242	360
45	65	24	106	242	283	321
189	40	10	33	347	268	137
52	23	13	30	246	308	185
13	68	32	174	309	340	383
87	23	14	95	181	274	338
18	33	10	11	209	407	367
87	42	35	209	393	385	354
78	36	97	84	270	330	240
13	24	51	51	302	244	230
64	28	12	143	272	182	232
66	23	102	73	316	281	364
87	34	27	168	287	340	239
77	13	31	40	240	246	233
56	12	31	116	333	237	198
100	80	23	88	318	306	537
29	14	28	96	379	187	268
93	18	20	101	332	233	248
41	20	22	87	423	456	277
22	5	25	39	158	256	144
68	40	28	33	233	207	186
92	85	32	57	228	272	282
59	30	78	129	309	280	234
80	52	59	141	389	359	254
68	34	22	182	376	231	222
49	10	17	79	308	209	274
52	15	29	37	239	190	308
12	42	29	71	164	307	234
49	5	13	33	295	186	327
18	9	13	55	291	383	254
19	43	21	95	261	385	373
52	114	15	169	292	176	234
66	22	5	112	301	270	221
164	20	27	88	297	170	270
34	31	21	125	351	350	404
243	28	33	27	292	334	245
186	47	86	94	397	195	381
20	11	7	10	269	219	232
111	84	75	80	279	244	273
17	3	6	66	210	266	217
112	19	112	252	327	303	302
33	12	17	116	197	367	208
65	24	18	75	328	231	267
163	48	17	144	260	295	308
21	12	19	131	314	341	318
114	16	17	39	272	203	186
66	26	28	116	302	265	308
48	22	30	134	228	352	301
5	86	55	30	293	308	197
56	19	22	106	270	184	277
227	58	65	181	327	218	306
142	50	68	17	373	260	254
168	41	30	220	215	282	139
59	15	4	35	238	294	250
10	26	24	38	197	316	301
18	25	46	29	279	273	282
32	16	5	120	220	222	88
38	12	7	28	258	191	176
45	30	62	265	253	273	308
9	25	7	238	246	282	281
126	55	6	40	301	264	259
203	35	82	359	363	345	308
144	18	14	112	234	204	194
22	4	8	74	257	241	204
75	69	15	50	252	269	188
68	26	22	19	245	303	230

36	11	37	164	171	252	160	212	266	447	204	61
21	36	5	224	354	232	270	298	444	475	295	192
8	32	8	39	269	263	260	313	356	385	311	164
21	62	25	22	175	185	255	284	212	348	353	177
50	6	42	72	344	178	265	259	395	463	288	209
25	22	91	60	354	240	247	202	347	266	354	94
25	11	9	167	364	311	245	298	342	280	274	132
90	19	83	170	239	322	224	213	415	373	376	161
52	9	54	41	273	307	167	269	250	333	404	46
115	17	20	131	330	348	320	296	259	312	389	258

BASIN AVERAGE RAINFALL OVER DRAINAGE BASIN DOWNSTREAM FROM MADDEN LAKE mm (191

Minimum BIC Order Determination
Maximum Permissible Order 10

PAR Model Orders
0 0 0 1 0 0 1 0 0 0 4 1

Total Length of Series = 1020

Concentrated Log-Likelihood = -4.16536E+03
Number of Parameters = 31

Overall AIC = 5.10448E+06
Overall BIC = 5.10465E+06

Likelihood Ratio Test for Nonperiodic VS Periodic Correlations
AR(4) Model Fit to Detrended Series
Concentrated Log-Likelihood = -4.21593E+03
Chi-SQ = 101.13 on 3 DF, S.L. = 0.00E+00

Overall Portmanteau Test
Q = 132.19 ON 113 DF S.L. = .1039E+00

Overall Portmanteau Test - Squared-Residuals
Q = 138.98 ON 120 DF S.L. = .1127E+00

Periodic Means and Standard Deviations

Period	Mean	S.D.	Number of Data Points
1	6.774118E+01	5.212342E+01	85
2	3.298826E+01	2.550087E+01	85
3	3.132944E+01	2.500700E+01	85
4	1.037529E+02	7.171790E+01	85
5	2.852353E+02	6.206992E+01	85
6	2.732000E+02	6.022522E+01	85
7	2.600117E+02	7.093817E+01	85
8	2.847294E+02	5.741846E+01	85
9	3.0001059E+02	5.291525E+01	85
10	3.651412E+02	8.104830E+01	85
11	3.714236E+02	1.239040E+02	85
12	2.010000E+02	1.252177E+02	85

Period 1

Residual Variance BIC AIC
2.71685E+03 2.30932E+05 2.30932E+05

QA(10) = 13.95 ON 10 DF is not significant at the 5 percent level
QAA(10) = 4.47 ON 10 DF is not significant at the 5 percent level

Period 2

Residual Variance BIC AIC
6.50294E+02 5.52750E+04 5.52750E+04

QA(10) = 8.40 ON 10 DF is not significant at the 5 percent level
QAA(10) = 14.75 ON 10 DF is not significant at the 5 percent level

Period 3

Residual	BIC	AIC
Variance 6.25350E+02	5.31548E+04	5.31548E+04

QA(10) = 13.65 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 8.43 ON 10 DF is not significant at the 5 percent level

Period 4			
=====			
Residual	BIC	AIC	
Variance 4.84919E+03	4.12186E+05	4.12183E+05	

Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.6860	.3020	.0000	.1085	.1700

QA(10) = 7.35 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 28.93 on 10 DF, S.L. = 1.278E-03

Period 5			
=====			
Residual	BIC	AIC	
Variance 3.85268E+03	3.27477E+05	3.27477E+05	

QA(10) = 19.66 on 10 DF, S.L. = 3.260E-02
 QAA(10) = 9.56 ON 10 DF is not significant at the 5 percent level

Period 6			
=====			
Residual	BIC	AIC	
Variance 3.62708E+03	3.08302E+05	3.08302E+05	

QA(10) = 6.58 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 27.36 on 10 DF, S.L. = 2.283E-03

Period 7			
=====			
Residual	BIC	AIC	
Variance 4.74886E+03	4.03657E+05	4.03655E+05	

Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.2795	.1241	.0000	.1085	-.0405

QA(10) = 15.81 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 2.87 ON 10 DF is not significant at the 5 percent level

Period 8			
=====			
Residual	BIC	AIC	
Variance 3.29688E+03	2.80235E+05	2.80235E+05	

QA(10) = 11.45 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 7.23 ON 10 DF is not significant at the 5 percent level

Period 9			
=====			
Residual	BIC	AIC	
Variance 2.80002E+03	2.38002E+05	2.38002E+05	

QA(10) = 10.32 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 10.44 ON 10 DF is not significant at the 5 percent level

Period 10					
=====					
Residual	BIC	AIC			
Variance 6.56883E+03	5.58350E+05	5.58350E+05			
QA(10) = 6.21 ON 10 DF is not significant at the 5 percent level					
QAA(10) = 4.05 ON 10 DF is not significant at the 5 percent level					

Period 11					
=====					
Residual	BIC	AIC			
Variance 1.18247E+04	1.00512E+06	1.00511E+06			

Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	-.1167	.1483	.0000	.1085	-.0001
2	-.0287	.2235	.0000	.1085	.0767
3	.1827	.2097	.0000	.1085	-.0971
4	.7594	.1724	-.0515	.1085	.3371

QA(10) = 8.24 ON 6 DF is not significant at the 5 percent level					
QAA(10) = 13.27 ON 10 DF is not significant at the 5 percent level					

Period 12					
=====					
Residual	BIC	AIC			
Variance 1.43931E+04	1.22342E+06	1.22342E+06			

Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.2895	.1050	-.0527	.1079	-.1094

QA(10) = 10.56 ON 9 DF is not significant at the 5 percent level					
QAA(10) = 7.61 ON 10 DF is not significant at the 5 percent level					

GATUN TOTAL

BASIN	AVERAGE	RAINFALL	OVER	DRAINAGE	AREA ABOVE	GATUN,	INCLUDING	AREA ABOVE	MADDEN	mm (1911-95)
47	53	38	145	435	267	163	190	257	477	295 48
31	44	15	69	258	269	253	280	304	444	398 187
75	37	11	56	386	280	244	349	347	285	338 159
26	20	27	67	274	339	125	299	440	390	400 160
47	159	42	326	228	346	395	263	285	388	380 201
56	72	44	190	314	251	335	273	280	468	351 122
34	19	11	83	304	297	367	360	334	297	611 227
109	23	31	163	373	277	213	245	301	414	218 51
81	27	19	277	205	231	232	255	338	362	264 174
38	21	31	58	214	262	401	292	259	480	261 55
41	68	25	137	257	304	342	410	401	392	301 248
183	43	17	52	363	292	133	243	280	357	284 245
51	27	13	35	242	319	205	250	302	727	321 96
22	68	27	181	326	323	421	318	366	284	409 145
90	24	12	110	188	333	349	228	320	427	338 112
16	34	19	39	226	428	377	362	359	378	481 304
85	65	50	218	417	375	434	228	307	249	382 314
79	34	104	74	258	334	266	419	308	401	430 203
11	32	50	50	287	272	262	357	244	332	307 126
69	27	21	162	294	181	258	217	283	225	240 122
70	27	116	63	371	304	343	215	314	368	668 141
88	26	31	166	294	320	227	275	222	477	670 219
92	15	39	53	280	270	293	237	290	228	578 273
50	10	30	105	359	242	231	260	356	406	414 284
93	76	23	81	342	318	553	335	320	310	943 360
40	15	22	92	393	190	281	296	347	405	324 83
112	21	21	89	324	250	276	286	386	367	433 590
40	29	24	124	497	443	279	422	311	356	360 432
23	4	26	32	152	286	150	261	352	328	554 249
69	39	25	41	241	205	200	292	271	338	304 61
77	96	49	64	254	305	281	336	325	467	339 116
50	27	77	120	310	297	233	288	342	480	209 394
82	55	56	134	376	356	241	291	353	292	346 416
60	32	22	192	345	259	242	423	243	456	307 356
43	11	15	89	309	255	323	365	254	273	413 349
41	14	26	36	273	232	345	215	352	269	280 263
11	39	25	74	151	311	228	298	340	371	243 193
43	6	12	33	269	210	356	278	248	280	417 83
15	10	13	58	277	416	289	326	307	375	494 198
19	42	18	108	281	381	423	313	265	255	513 400
47	129	15	167	303	189	242	285	310	358	311 213
58	18	4	113	311	283	274	255	304	454	234 375
187	27	37	94	333	168	279	251	230	401	400 161
33	43	24	110	364	361	411	353	363	303	440 200
250	28	46	25	257	322	276	385	269	277	523 241
202	59	92	106	418	230	399	259	278	410	361 125
22	18	7	14	259	211	212	267	252	391	345 151
115	75	72	67	282	273	303	262	278	316	239 129
18	5	6	72	204	298	222	271	345	312	268 523
112	20	95	250	368	292	323	266	255	382	353 491
32	10	17	129	212	412	219	324	361	368	281 174
63	18	5	6	72	204	298	222	271	345	312 268
523	112	20	95	250	368	292	323	266	255	382 353
491	32	10	17	129	212	412	219	324	361	368 281
174	63	21	21	87	338	227	275	302	291	303 323
282	25	31	168	327	264	313	347	349	334	577 395
49	25	38	168	240	406	329	278	285	347	401 140
6	80	61	35	310	309	224	331	252	413	317 79
59	20	37	114	283	176	275	347	360	296	333 291
275	67	66	215	367	213	305	337	285	315	458 419
123	45	83	16	365	301	307	330	288	323	316 36
207	41	28	224	243	309	145	200	312	344	220 115
55	19	5	31	255	287	278	246	307	366	478 148
16	65	27	43	188	316	288	218	295	448	376 98
21	25	39	31	320	306	320	350	287	517	357 359
35	20	15	121	215	215	84	211	349	313	202 58
51	12	12	32	251	200	180	376	273	421	311 109
41	39	63	269	298	295	315	321	263	310	305 78
9	26	14	239	229	266	311	277	218	291	318 206
124	67	12	44	287	287	242	298	195	294	315 197
195	41	78	439	346	348	325	296	185	303	438 330
125	18	13	109	223	224	233	197	255	402	148 38
24	10	14	101	273	240	195	224	350	353	329 328
66	66	13	41	236	287	224	411	285	401	364 59
66	27	36	29	232	323	246	234	329	256	229 273

44	11	40	190	210	277	156	216	289	461	232	64
28	42	7	283	403	256	317	317	435	466	357	189
12	58	19	45	309	280	342	355	356	426	315	153
34	82	23	25	178	216	304	304	220	356	367	188
59	8	45	64	339	170	269	288	383	494	287	212
26	30	85	78	357	246	259	216	362	278	380	94
28	14	14	169	413	340	262	338	330	295	274	140
92	18	112	200	262	395	223	208	421	390	342	157
48	17	64	42	317	337	194	294	251	343	437	60
109	16	29	123	322	388	350	322	267	307	382	285

BASIN AVERAGE RAINFALL OVER DRAINAGE AREA ABOVE GATUN, INCLUDING AREA ABOVE MAD

Minimum BIC Order Determination
Maximum Permissible Order 10

PAR Model Orders
0 0 0 0 2 0 0 0 0 4 1

Total Length of Series = 1020

Concentrated Log-Likelihood = -4.24876E+03
Number of Parameters = 31

Overall AIC = 5.77450E+06
Overall BIC = 5.77467E+06

Likelihood Ratio Test for Nonperiodic VS Periodic Correlations
AR(4) Model Fit to Detrended Series
Concentrated Log-Likelihood = -4.28507E+03
Chi-SQ = 72.62 on 3 DF, S.L. = 0.00E+00

Overall Portmanteau Test
Q = 128.97 ON 113 DF S.L. = .1445E+00

Overall Portmanteau Test - Squared-Residuals
Q = 151.78 ON 120 DF S.L. = .2480E-01

Period	Periodic Means and Standard Deviations		Number of Data Points
	Mean	S.D.	
1	8.170591E+01	8.886008E+01	85
2	3.743530E+01	2.805769E+01	85
3	3.377649E+01	2.582264E+01	85
4	1.084706E+02	8.064513E+01	85
5	2.869883E+02	7.627790E+01	85
6	2.878588E+02	6.248203E+01	85
7	2.796823E+02	7.845451E+01	85
8	2.912235E+02	5.718029E+01	85
9	3.053765E+02	5.111670E+01	85
10	3.642941E+02	7.926350E+01	85
11	3.659176E+02	1.191985E+02	85
12	2.125294E+02	1.221477E+02	85

Period 1		
Residual Variance	BIC	AIC
7.89612E+03	6.71170E+05	6.71170E+05

QA(10) = 18.50 on 10 DF, S.L. = 4.704E-02
QAA(10) = 8.88 ON 10 DF is not significant at the 5 percent level

Period 2		
Residual Variance	BIC	AIC
7.87234E+02	6.69149E+04	6.69149E+04

QA(10) = 9.81 ON 10 DF is not significant at the 5 percent level
QAA(10) = 17.77 ON 10 DF is not significant at the 5 percent level

Period 3

Residual Variance	BIC	AIC
6.66809E+02	5.66788E+04	5.66788E+04

QA(10) = 6.35 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 5.02 ON 10 DF is not significant at the 5 percent level

Period 4		
Residual Variance	BIC	AIC
6.50364E+03	5.52809E+05	5.52809E+05

QA(10) = 9.10 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 16.30 ON 10 DF is not significant at the 5 percent level

Period 5		
Residual Variance	BIC	AIC
4.95797E+03	4.21437E+05	4.21432E+05

Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.2173	.0969	.0000	.1085	.0447
2	.7777	.3027	.0000	.1085	-.0409

QA(10) = 9.33 ON 8 DF is not significant at the 5 percent level
 QAA(10) = 9.19 ON 10 DF is not significant at the 5 percent level

Period 6		
Residual Variance	BIC	AIC
3.90400E+03	3.31840E+05	3.31840E+05

QA(10) = 7.67 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 21.14 on 10 DF, S.L. = 2.015E-02

Period 7		
Residual Variance	BIC	AIC
6.15511E+03	5.23184E+05	5.23184E+05

QA(10) = 16.31 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 5.03 ON 10 DF is not significant at the 5 percent level

Period 8		
Residual Variance	BIC	AIC
3.26959E+03	2.77915E+05	2.77915E+05

QA(10) = 18.80 on 10 DF, S.L. = 4.285E-02
 QAA(10) = 17.58 ON 10 DF is not significant at the 5 percent level

Period 9		
Residual Variance	BIC	AIC
2.61292E+03	2.22098E+05	2.22098E+05

QA(10) = 7.65 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 15.61 ON 10 DF is not significant at the 5 percent level

Period 10		
Residual	BIC	AIC

Variance
6.28270E+03 5.34030E+05 5.34030E+05

QA(10) = 7.54 ON 10 DF is not significant at the 5 percent level
QAA(10) = 5.36 ON 10 DF is not significant at the 5 percent level

Period 11
=====

Residual Variance	BIC	AIC
1.08852E+04	9.25258E+05	9.25248E+05

Lag	è	SE(è)	ra	SD(ra)	raa
1	-.1311	.1459	.0000	.1085	-.0085
2	.0260	.2219	.0000	.1085	-.0170
3	.2828	.2025	.0000	.1085	-.0608
4	.6256	.1508	.0000	.1085	.4512

QA(10) = 5.24 ON 6 DF is not significant at the 5 percent level
QAA(10) = 23.62 on 10 DF, S.L. = 8.672E-03

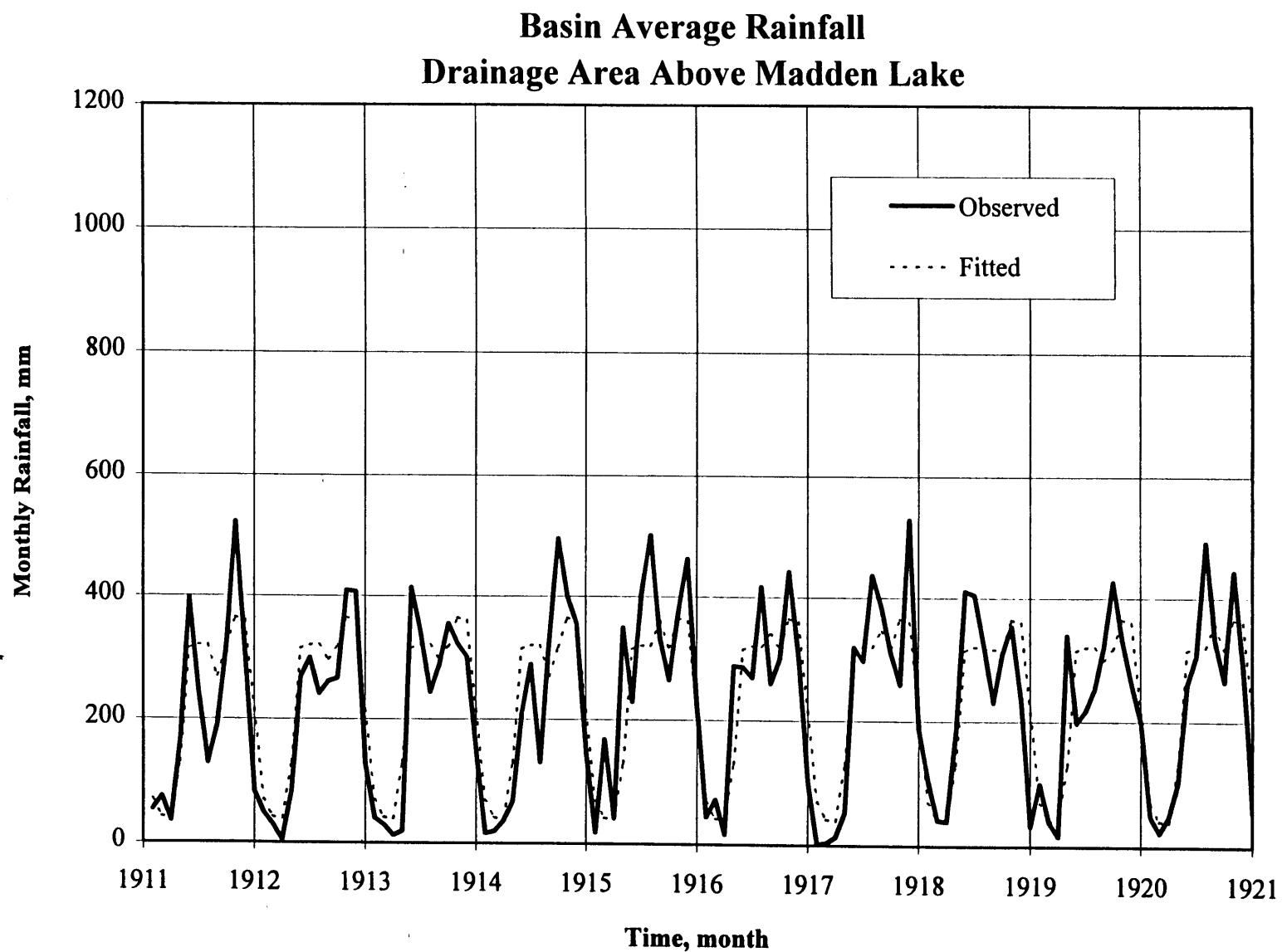
Period 12
=====

Residual Variance	BIC	AIC
1.39132E+04	1.18263E+06	1.18262E+06

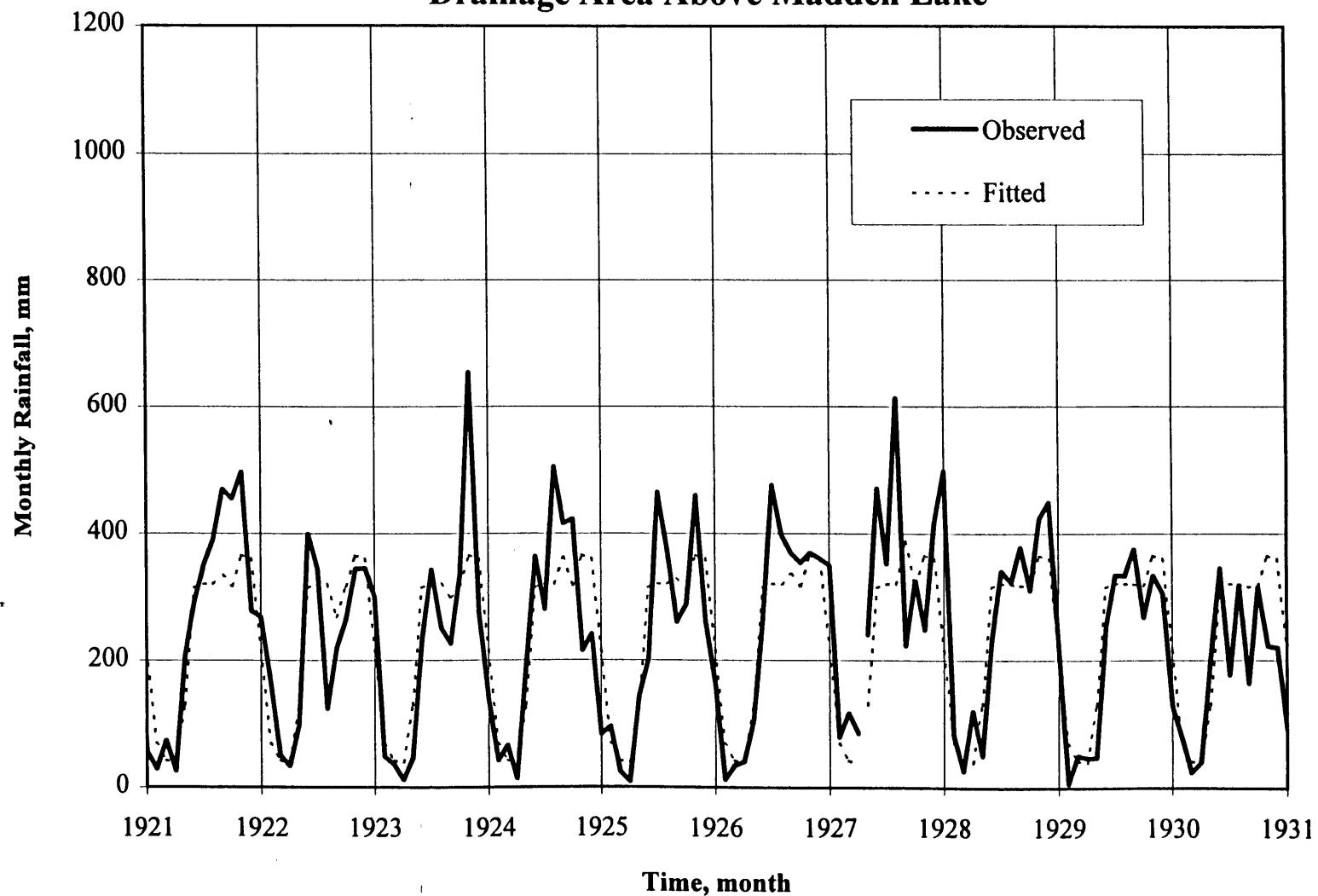
Lag	è	SE(è)	ra	SD(ra)	raa
1	.2662	.1073	-.0964	.1085	-.1006

QA(10) = 12.65 ON 9 DF is not significant at the 5 percent level
QAA(10) = 6.28 ON 10 DF is not significant at the 5 percent level

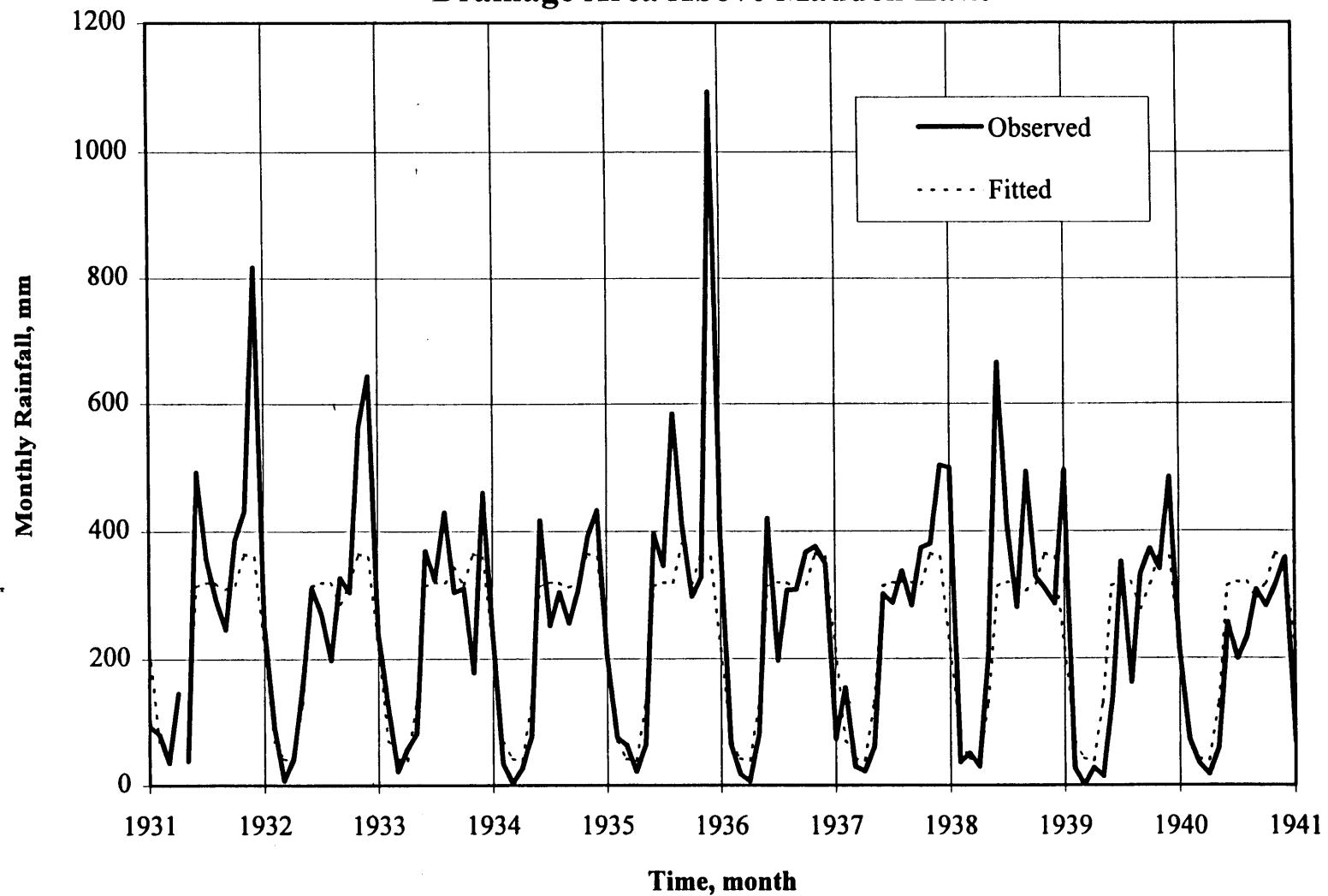
**COMPARISON OF
OBSERVED AND FITTED/VERIFICATION RAINFALLS**



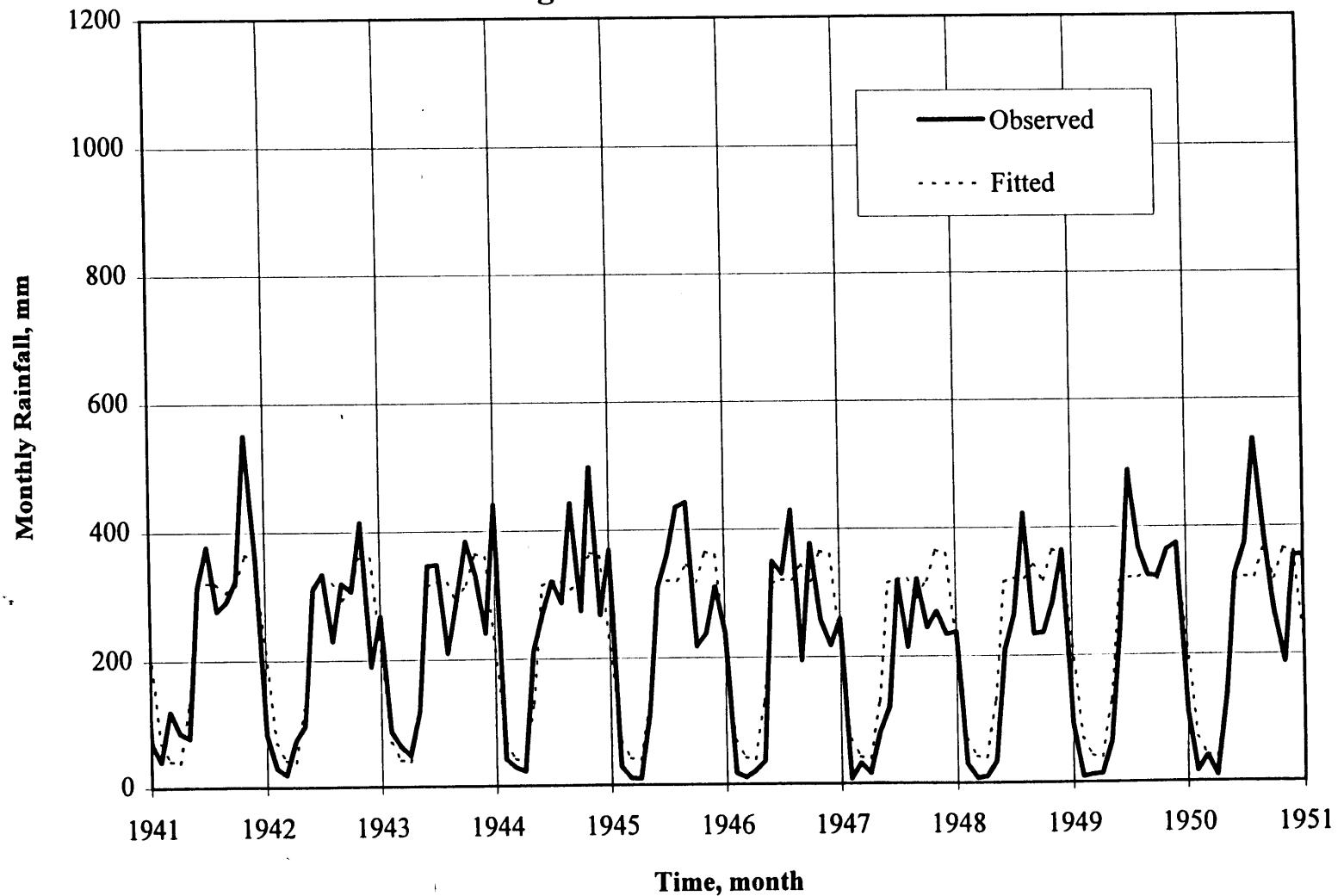
**Basin Average Rainfall
Drainage Area Above Madden Lake**

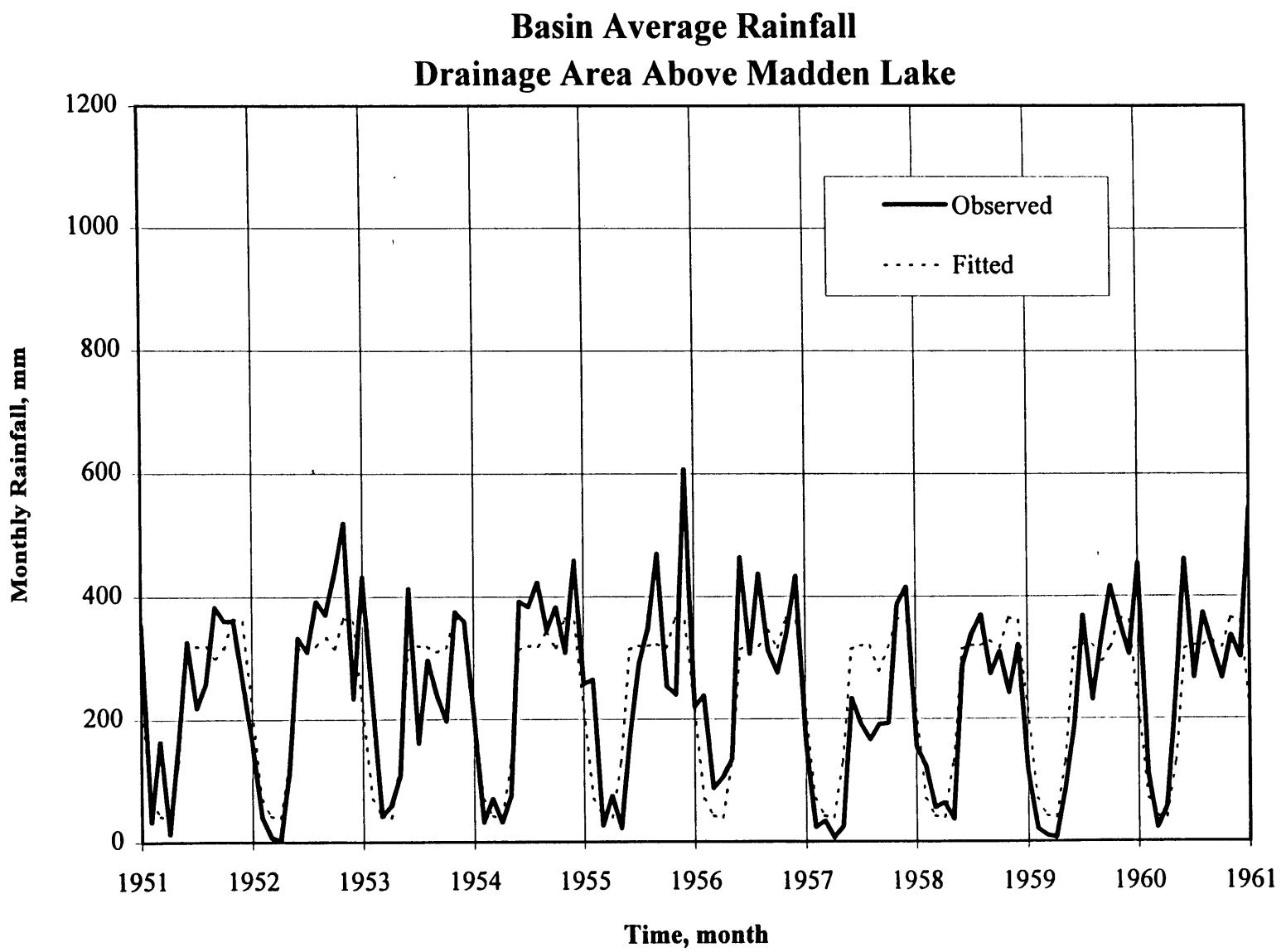


Basin Average Rainfall
Drainage Area Above Madden Lake

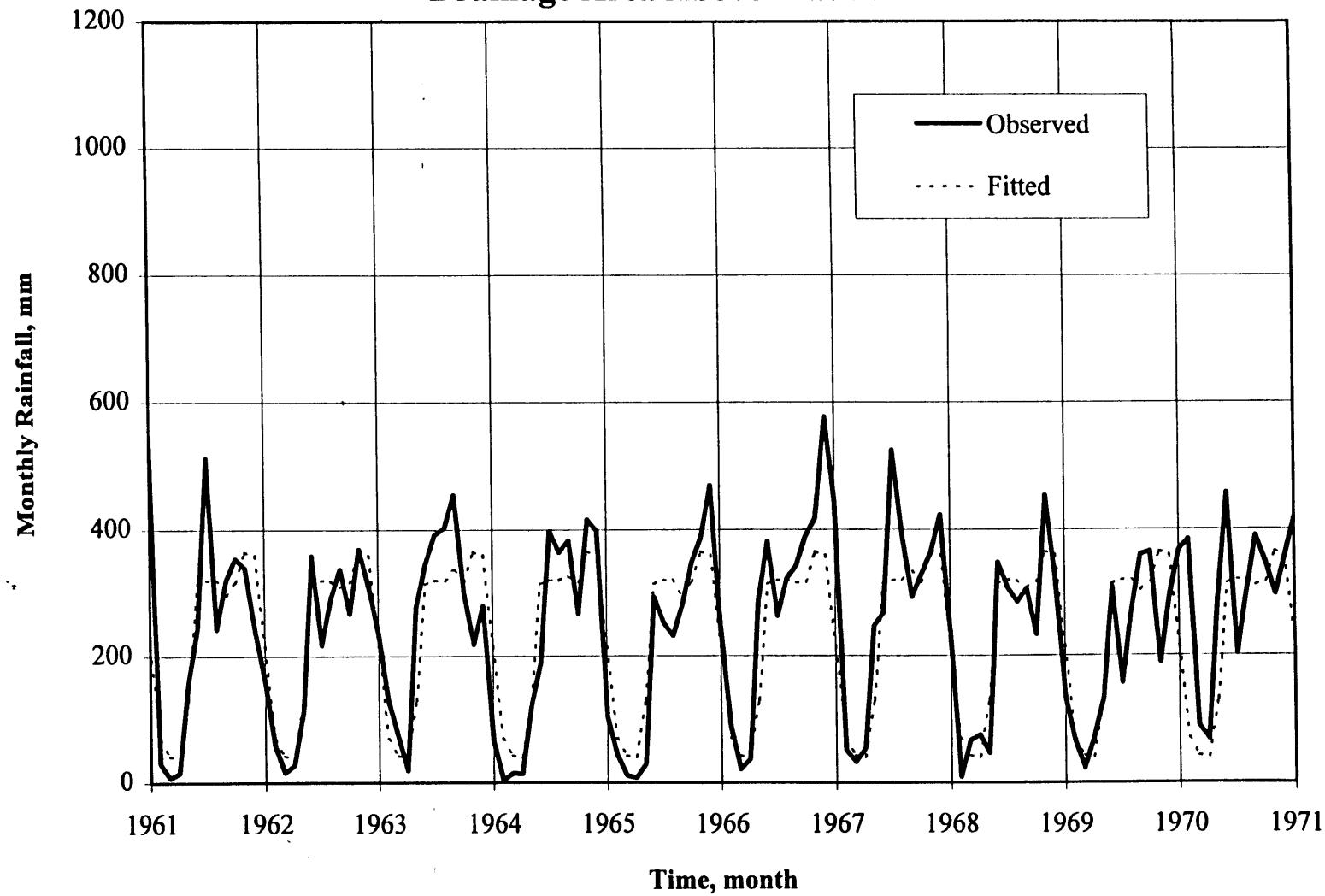


Basin Average Rainfall
Drainage Area Above Madden Lake

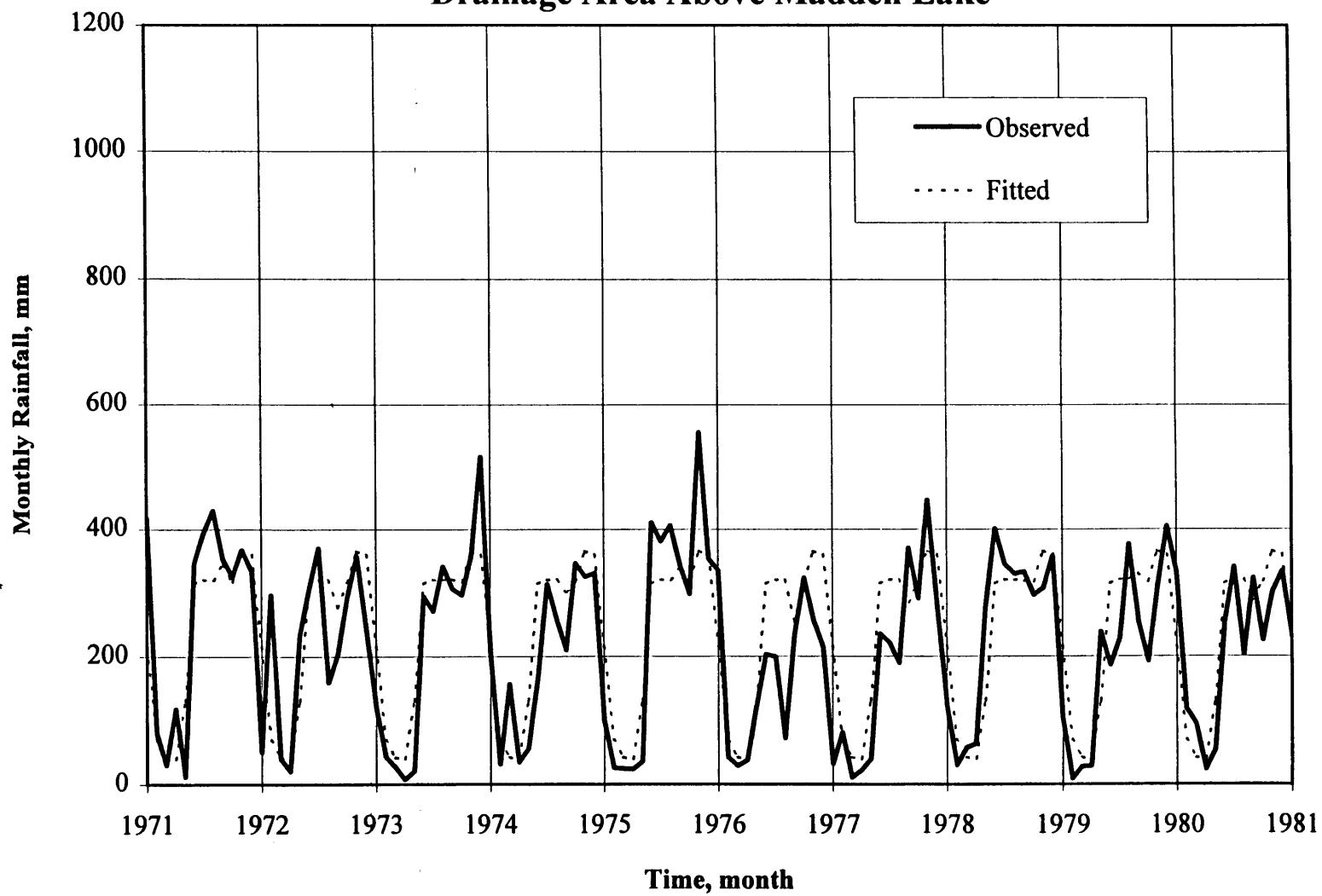




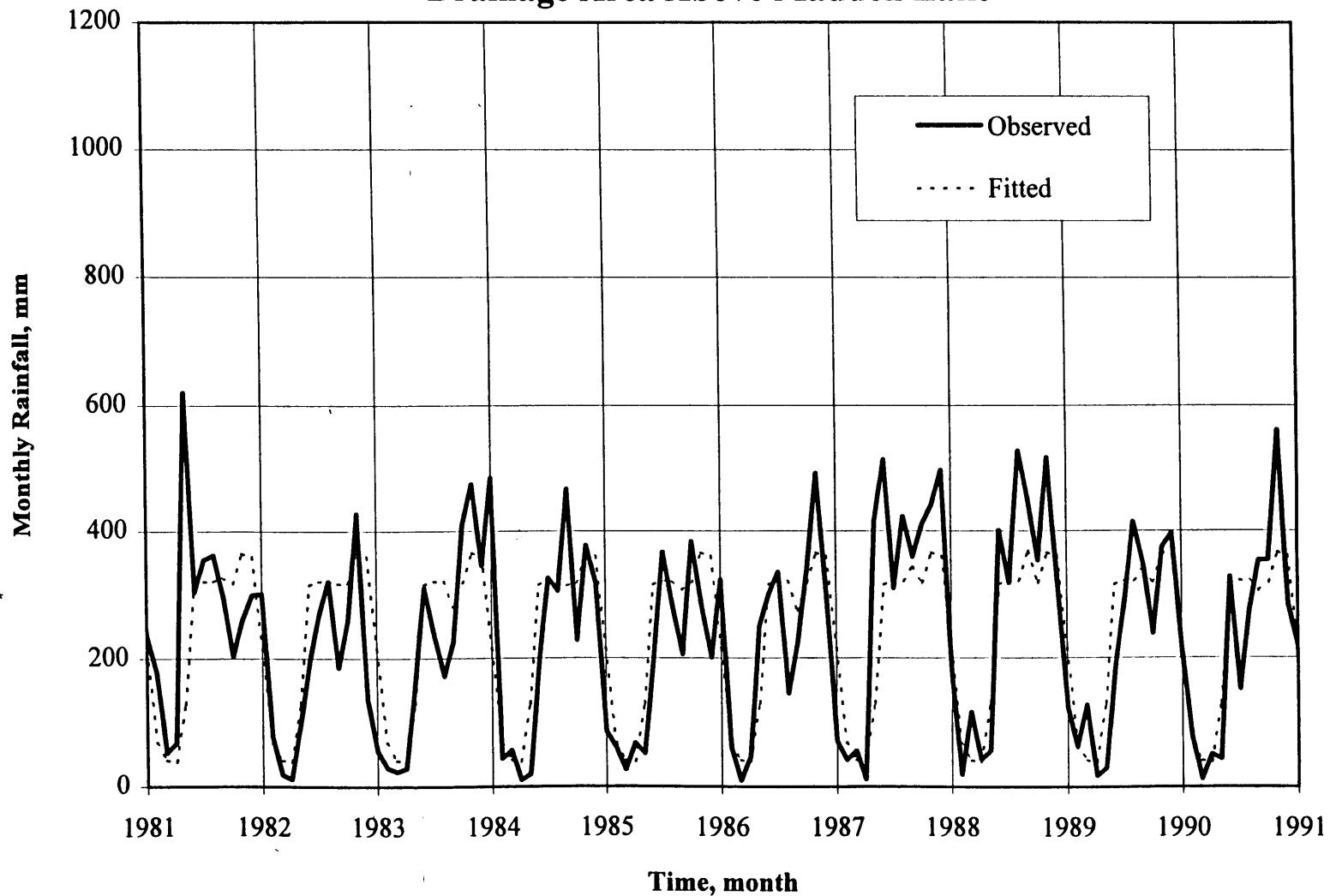
Basin Average Rainfall
Drainage Area Above Madden Lake



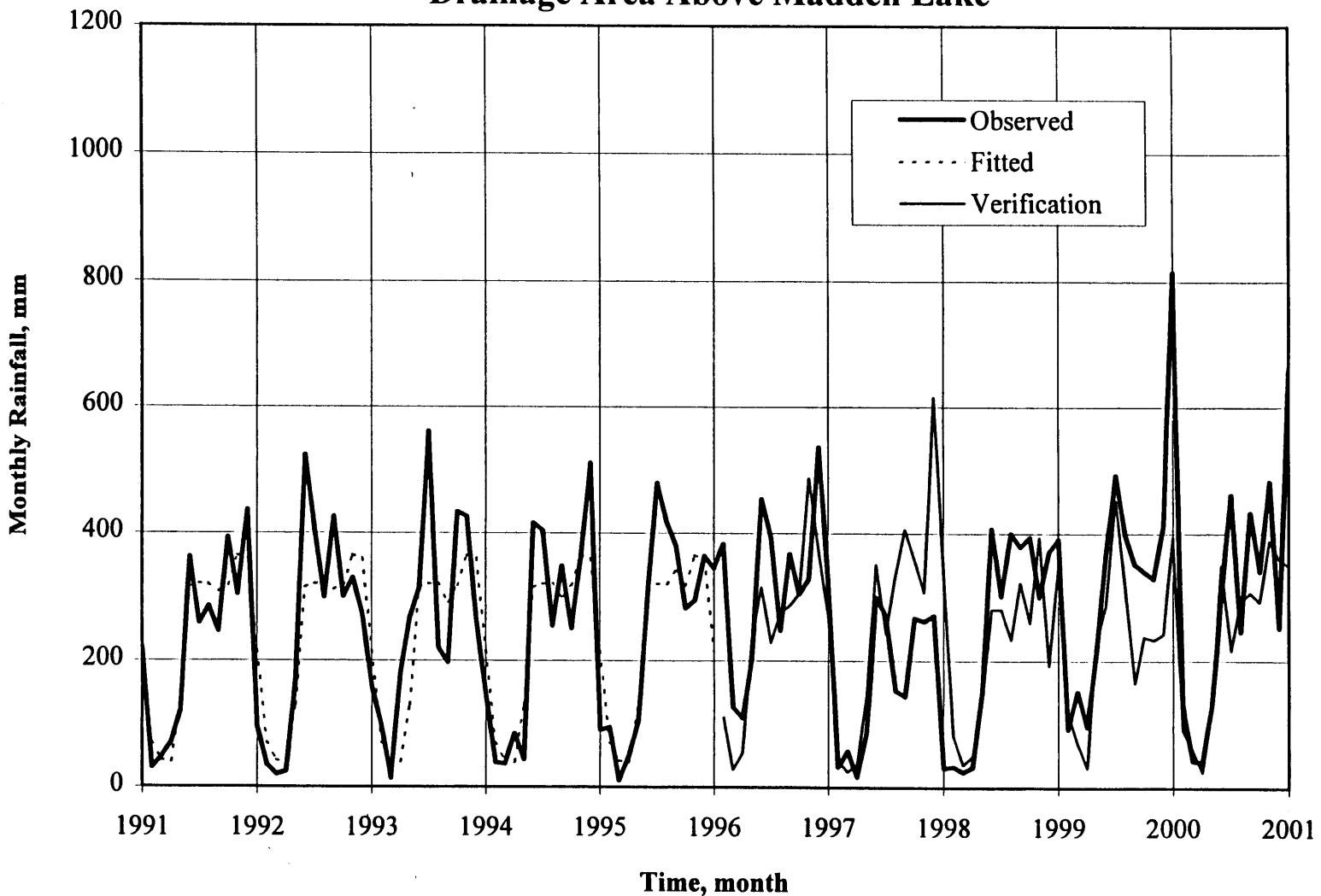
**Basin Average Rainfall
Drainage Area Above Madden Lake**



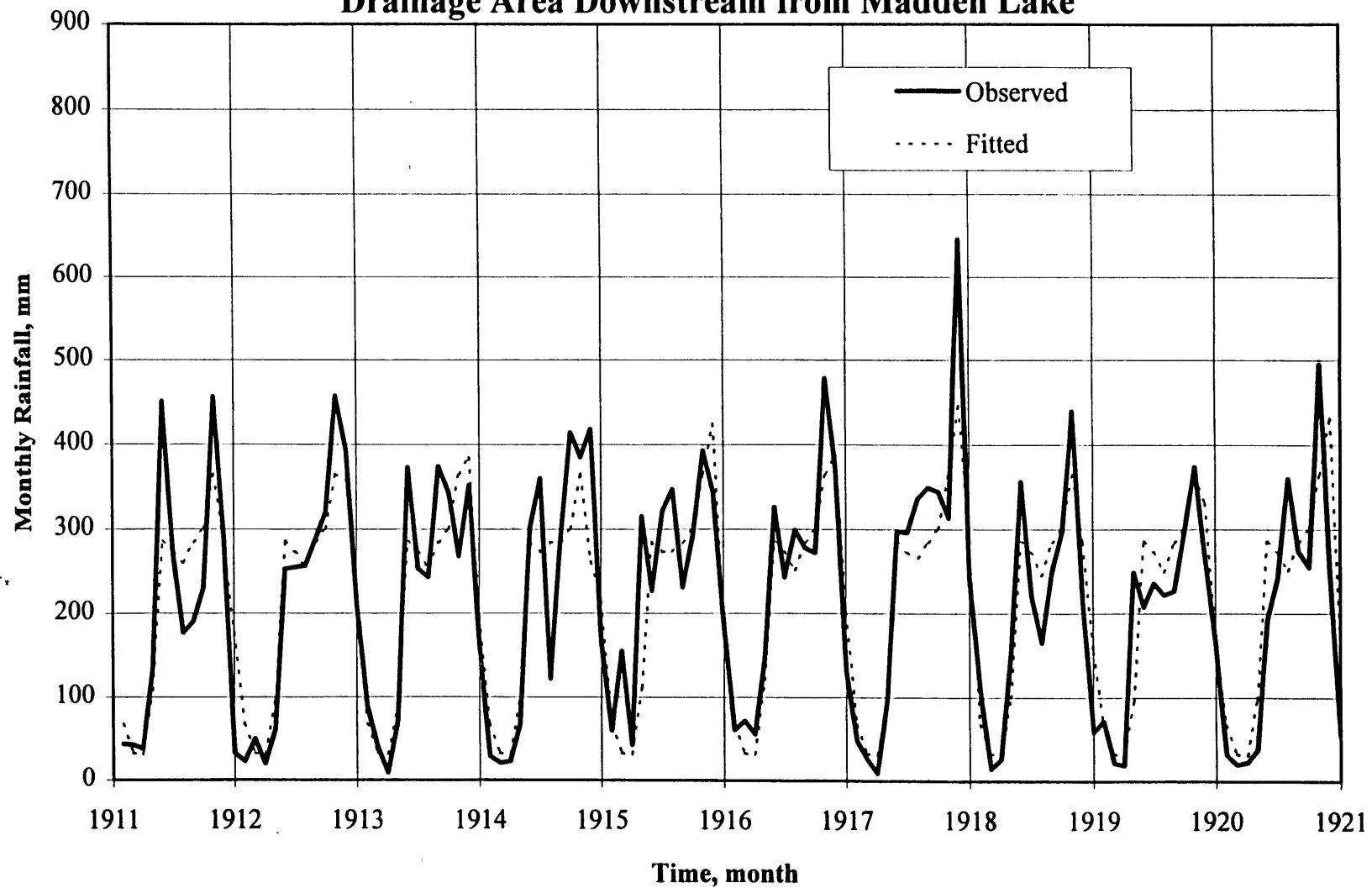
Basin Average Rainfall
Drainage Area Above Madden Lake

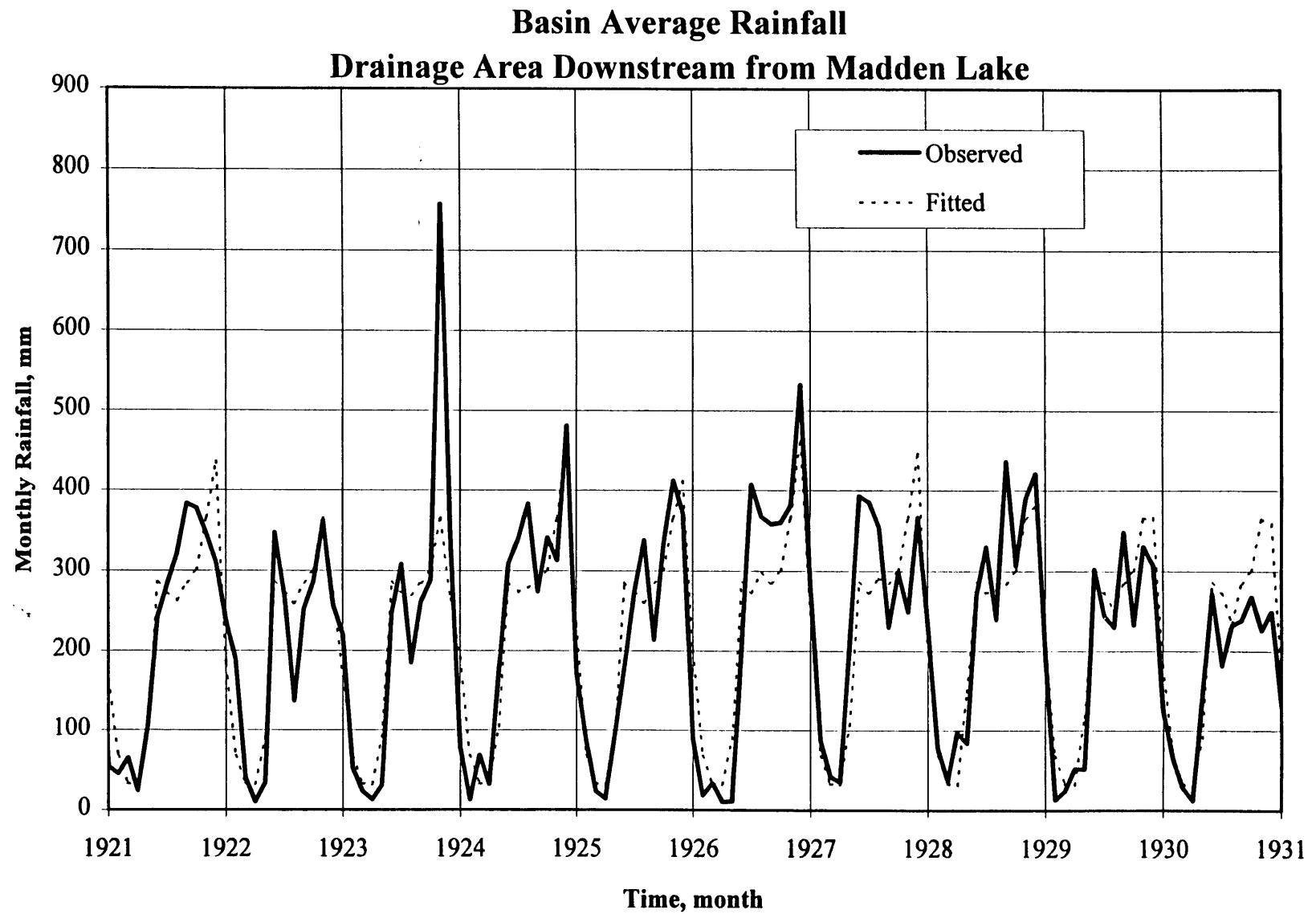


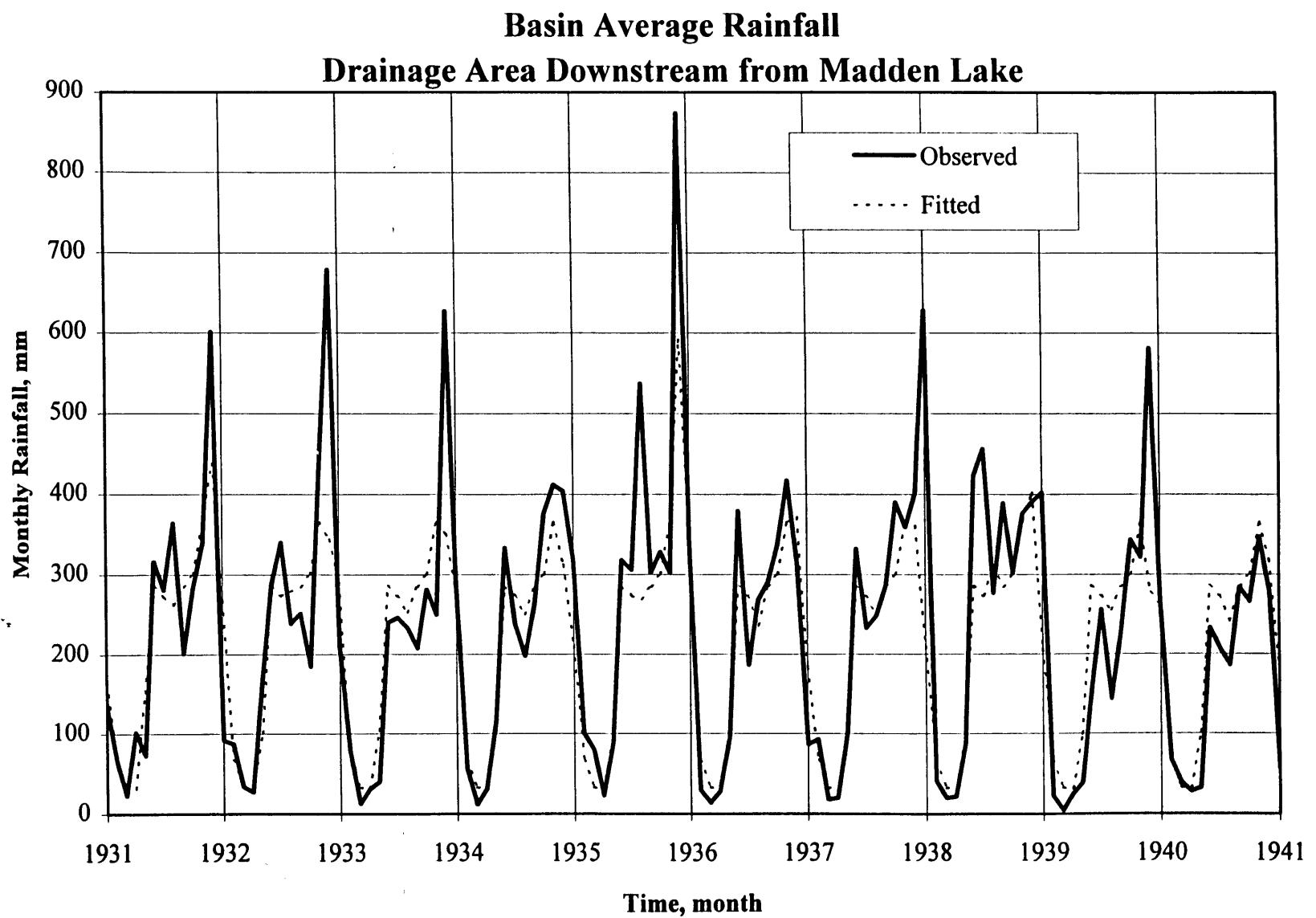
**Basin Average Rainfall
Drainage Area Above Madden Lake**

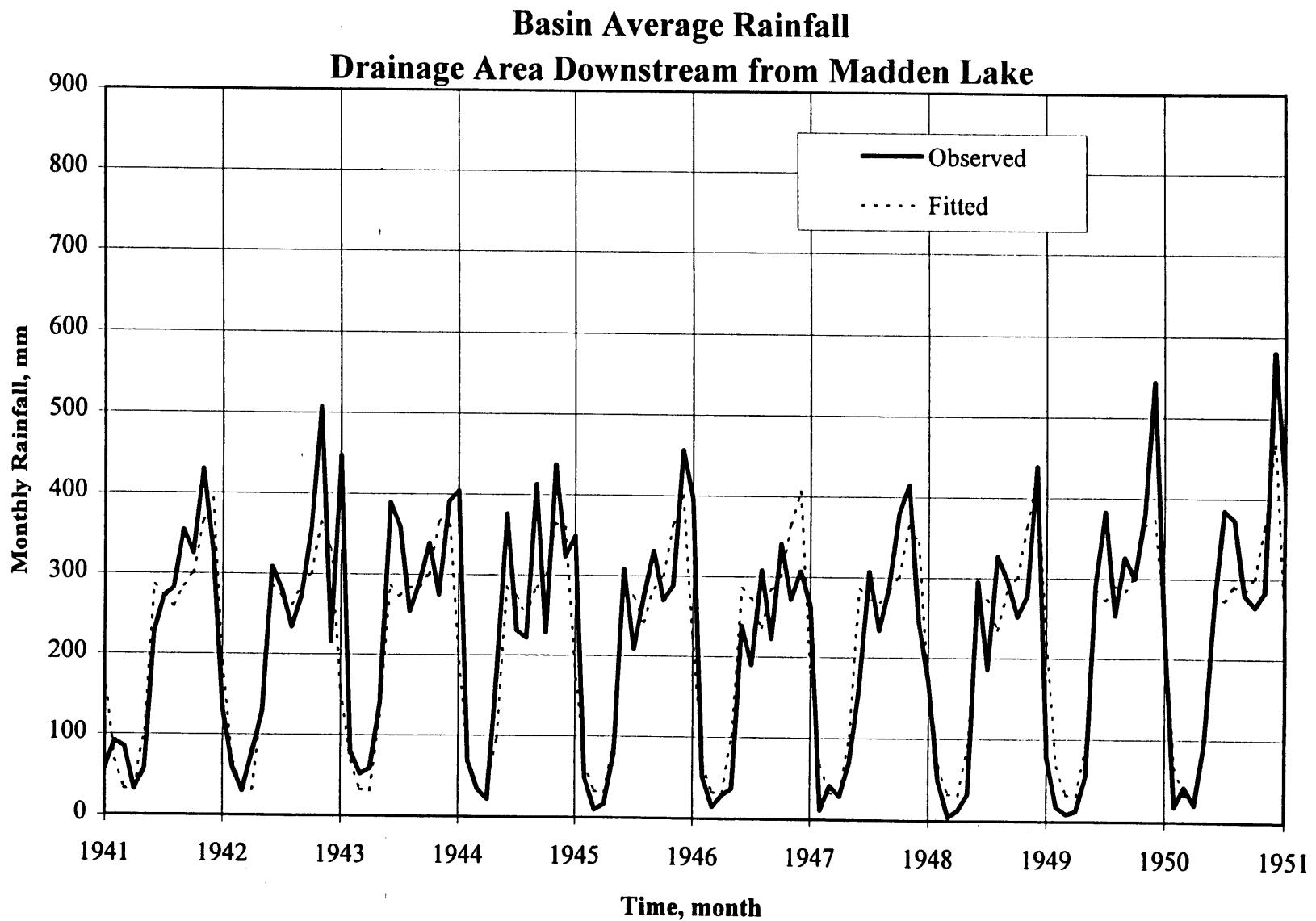


Basin Average Rainfall
Drainage Area Downstream from Madden Lake

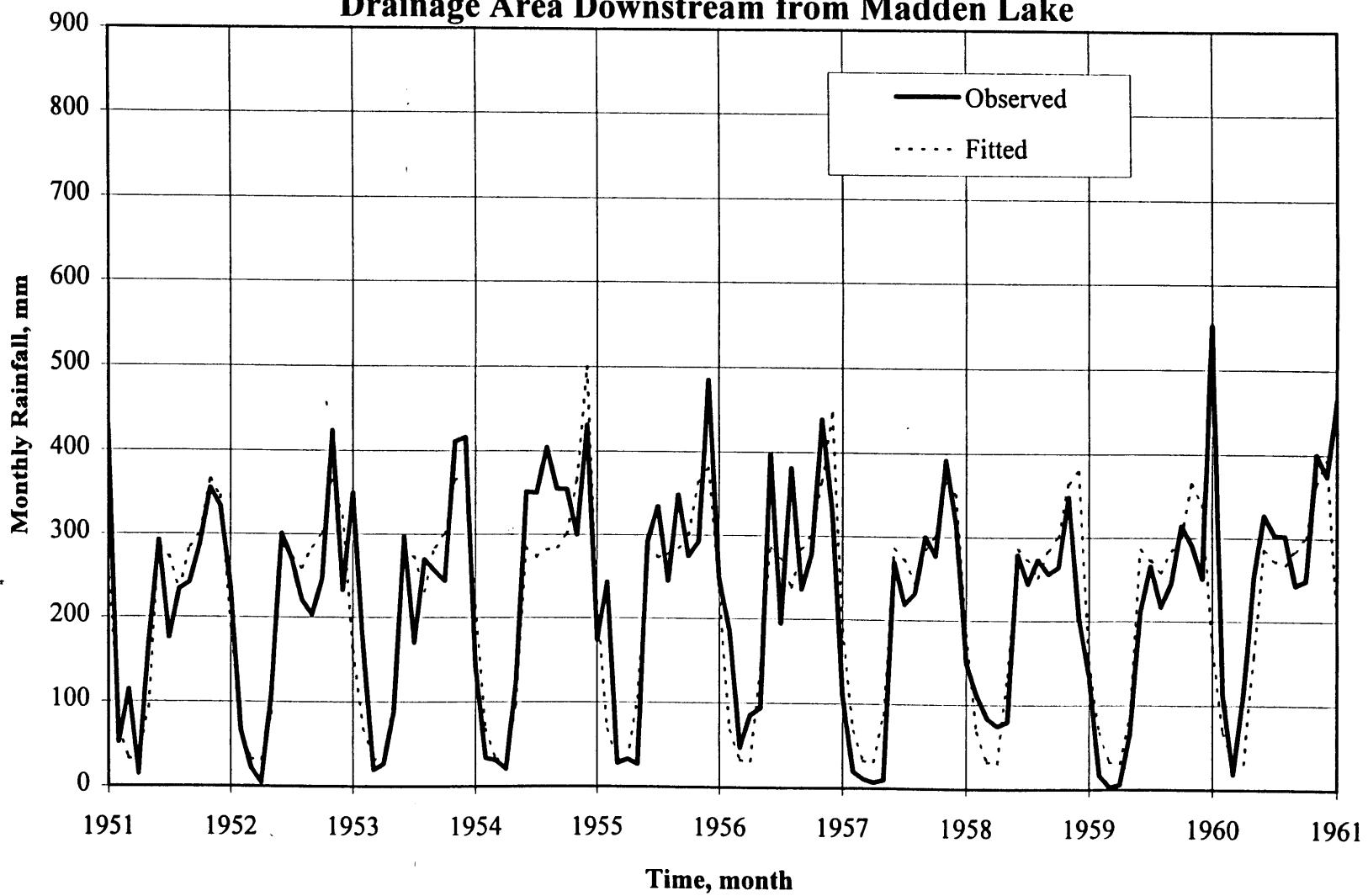


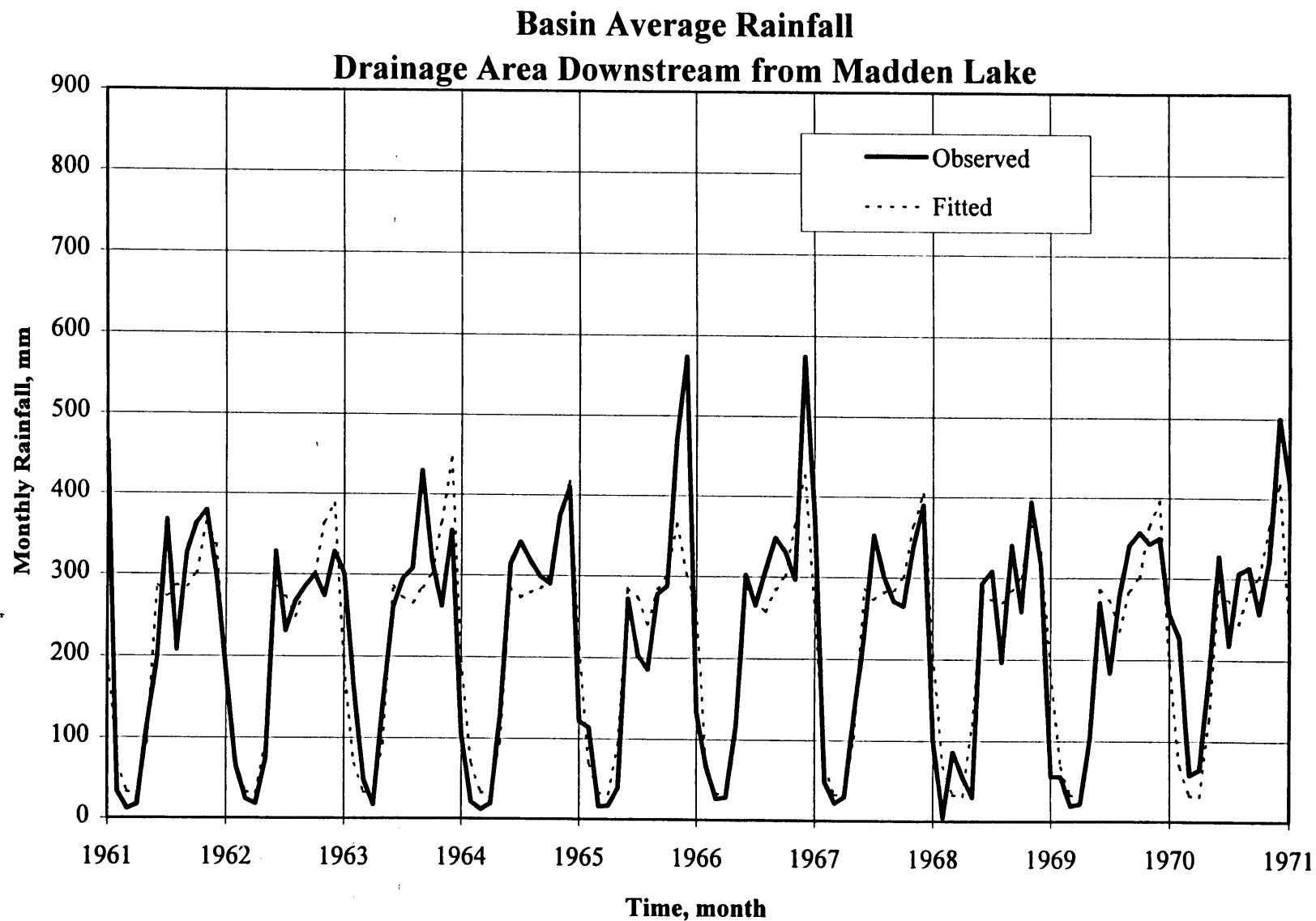




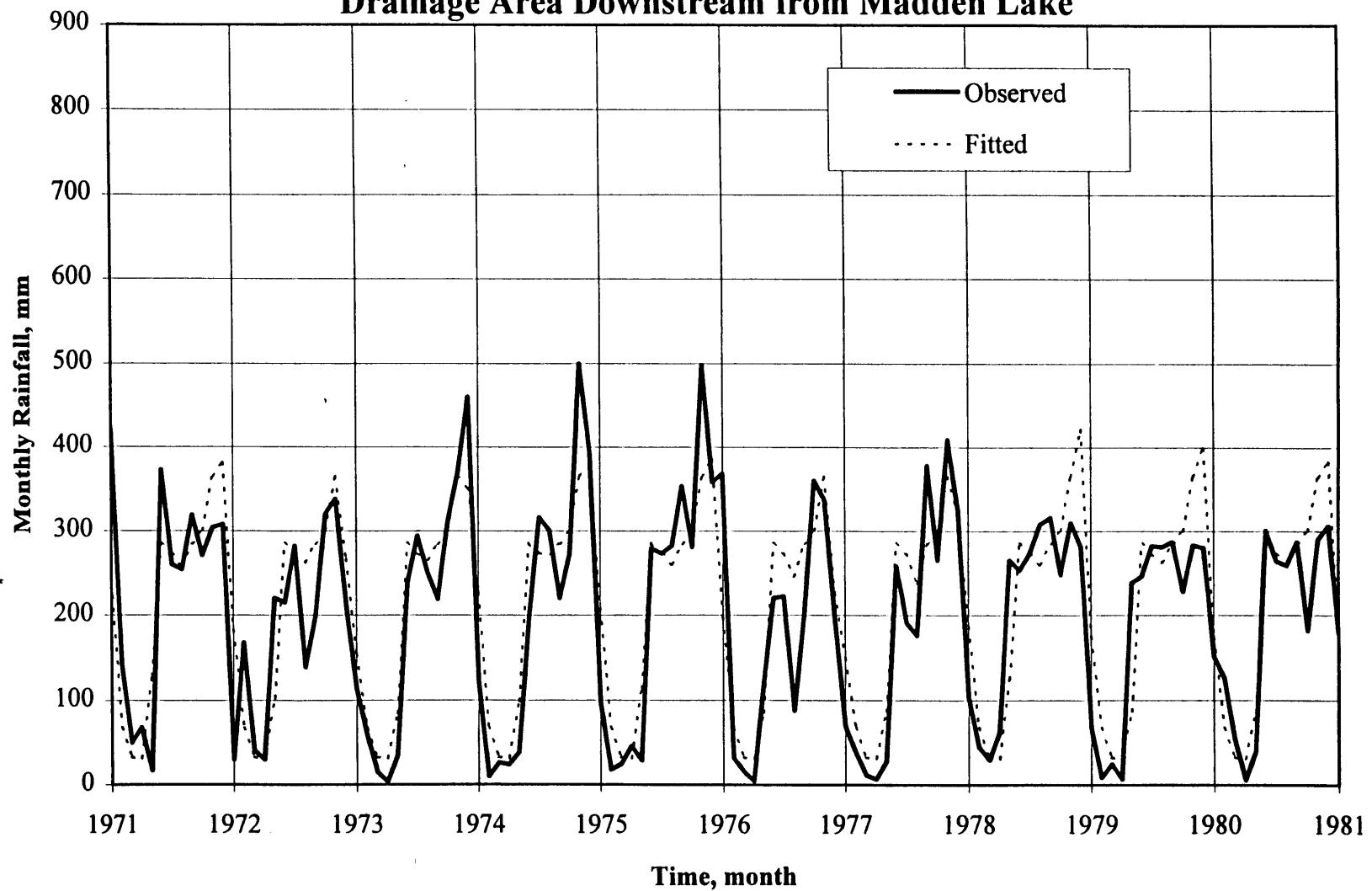


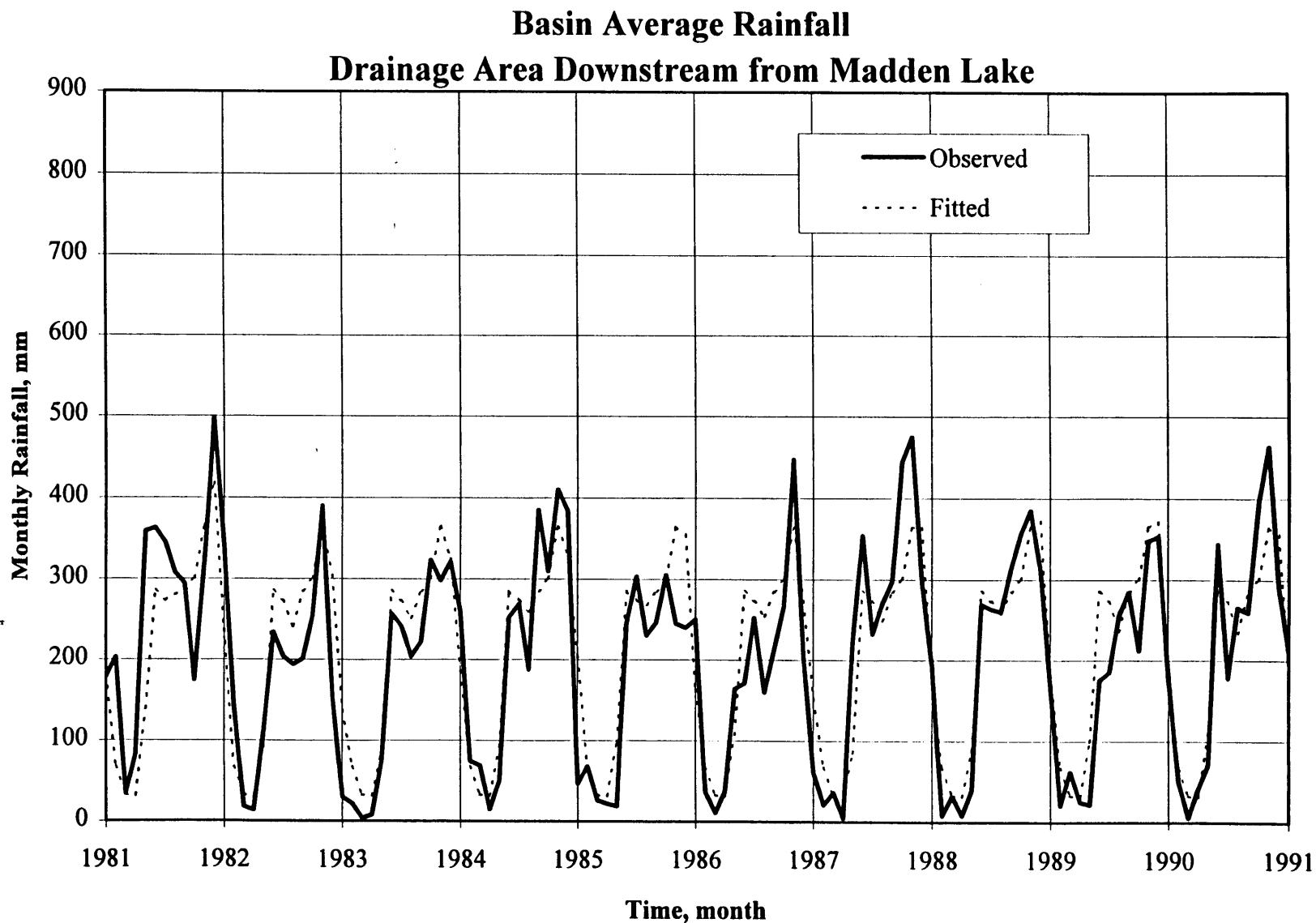
Basin Average Rainfall
Drainage Area Downstream from Madden Lake



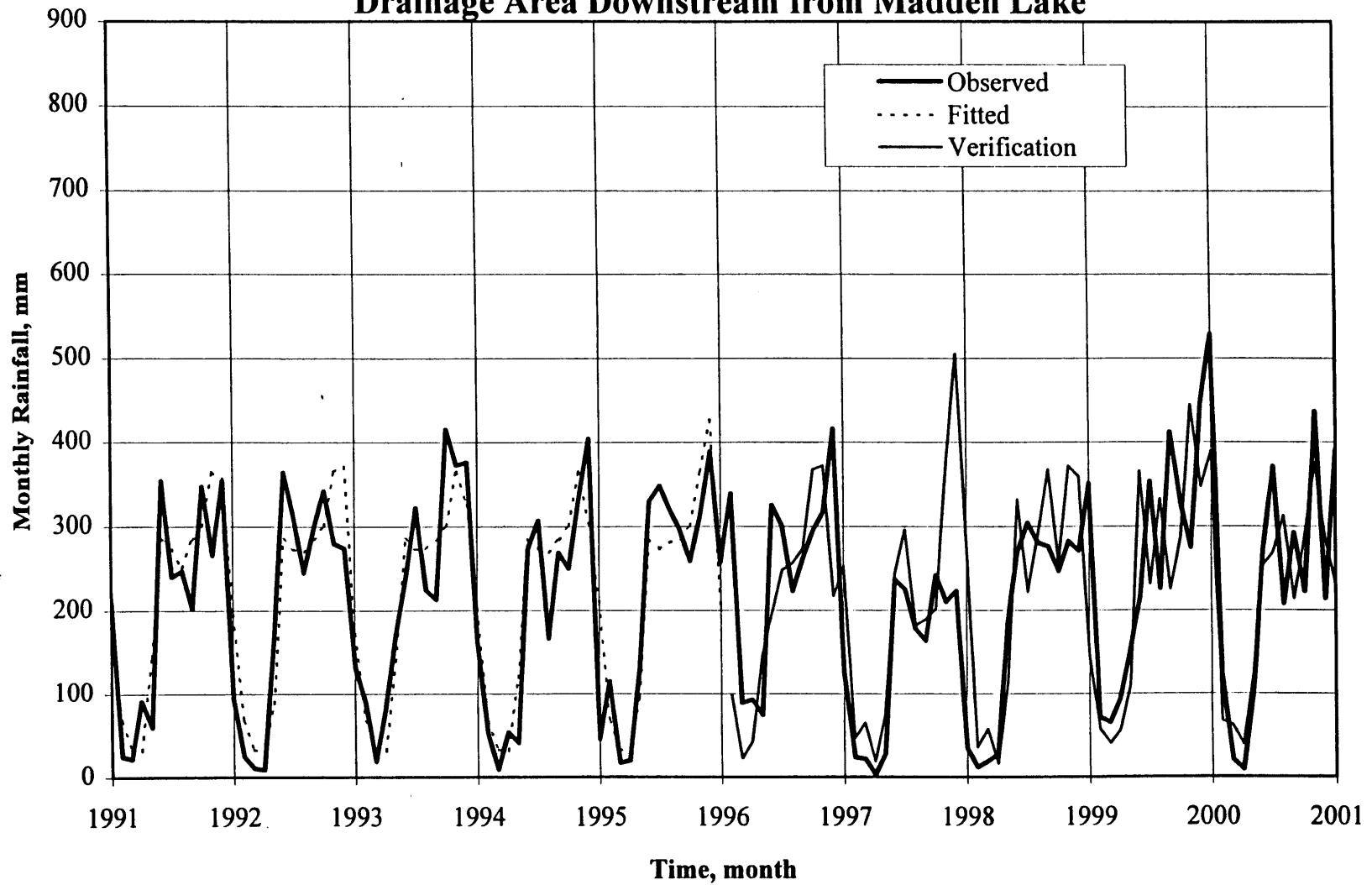


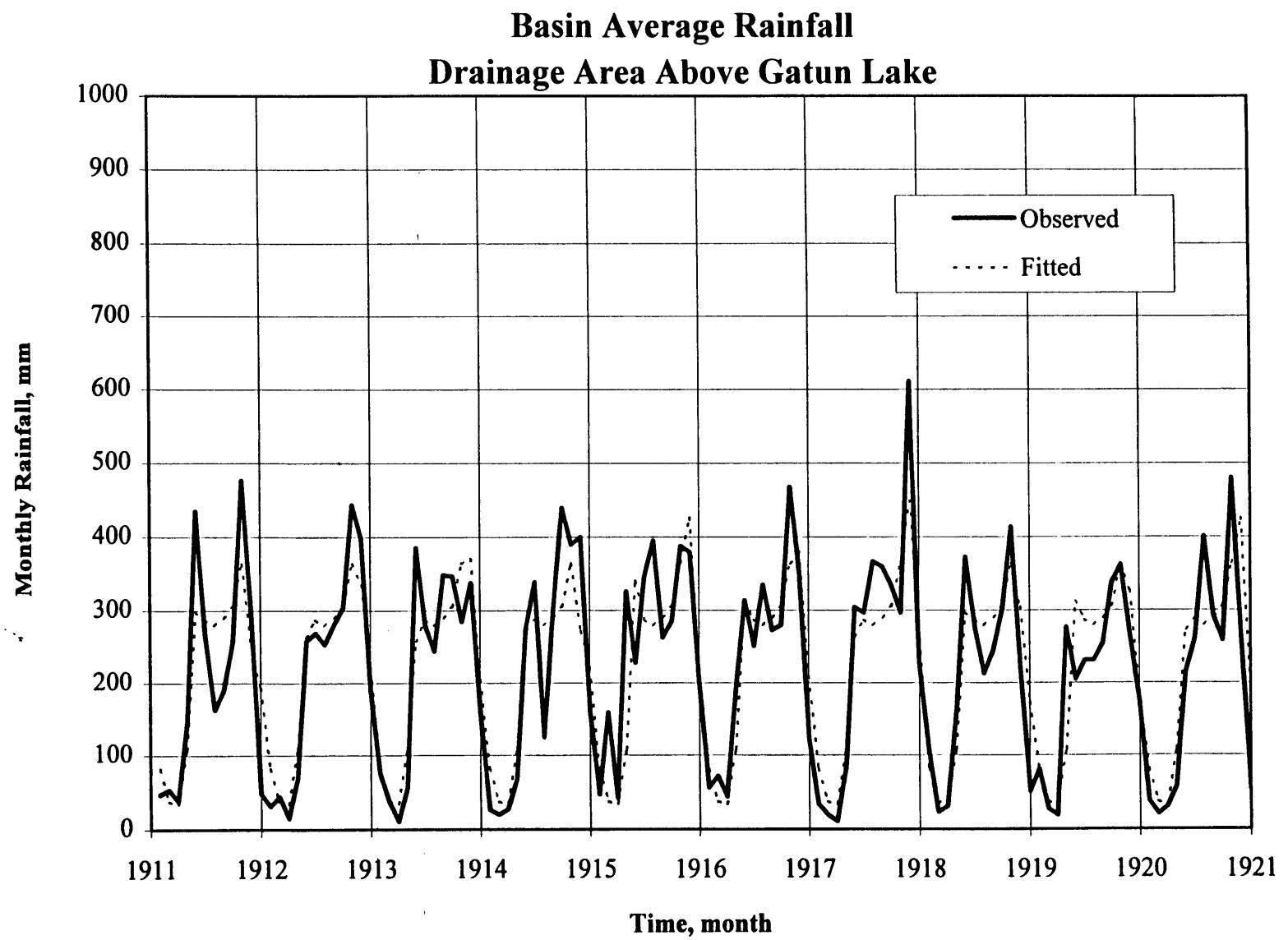
Basin Average Rainfall
Drainage Area Downstream from Madden Lake



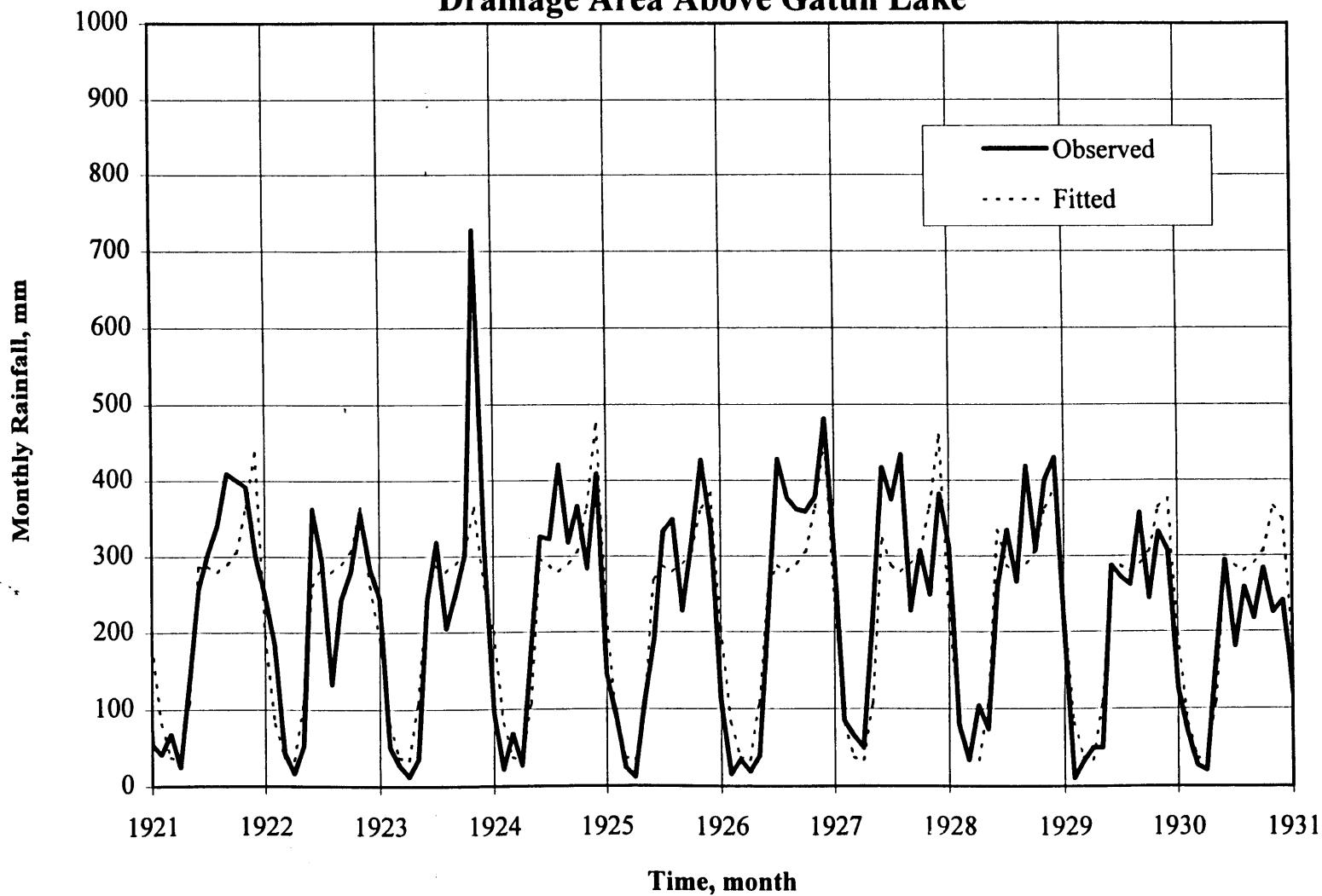


Basin Average Rainfall
Drainage Area Downstream from Madden Lake

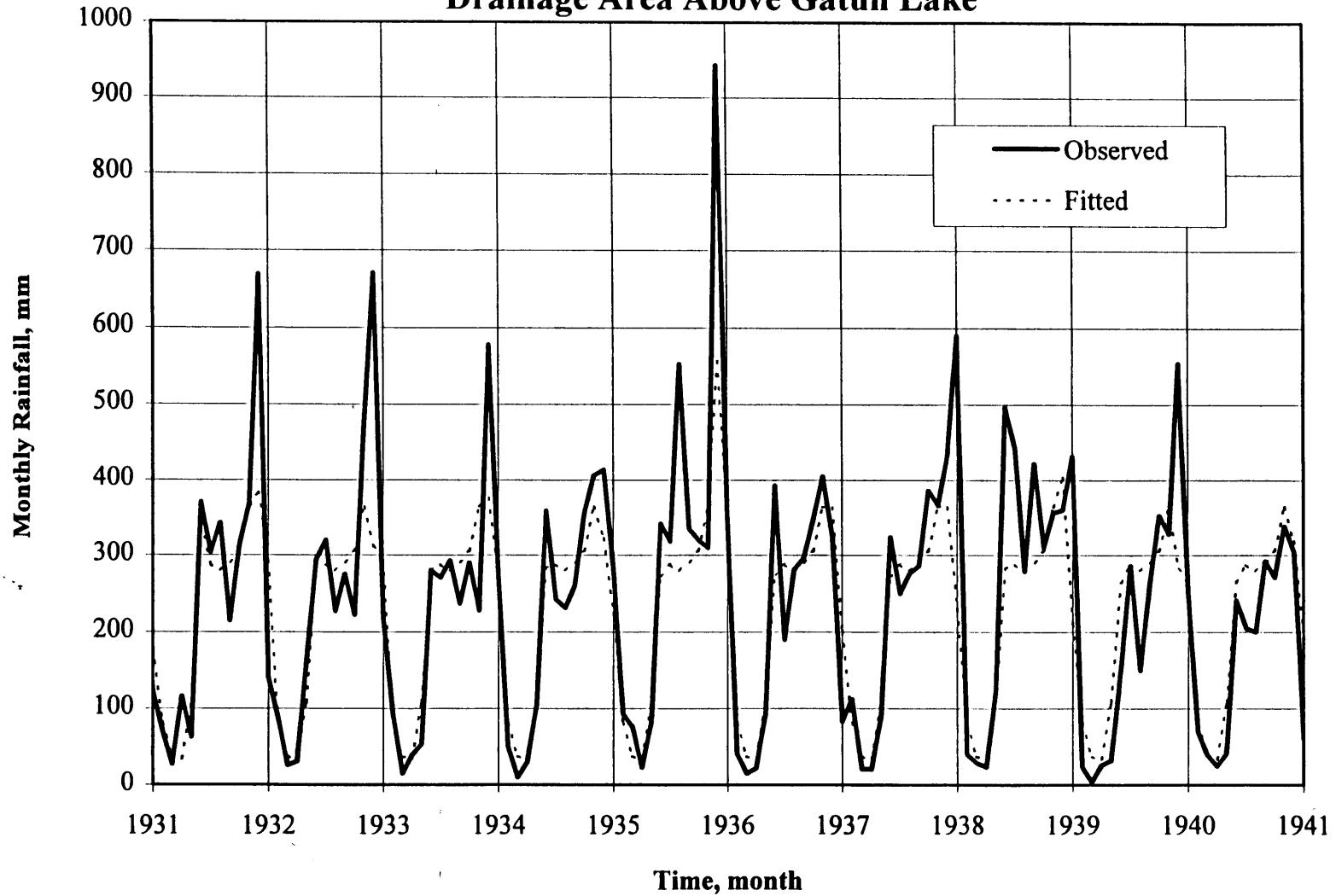




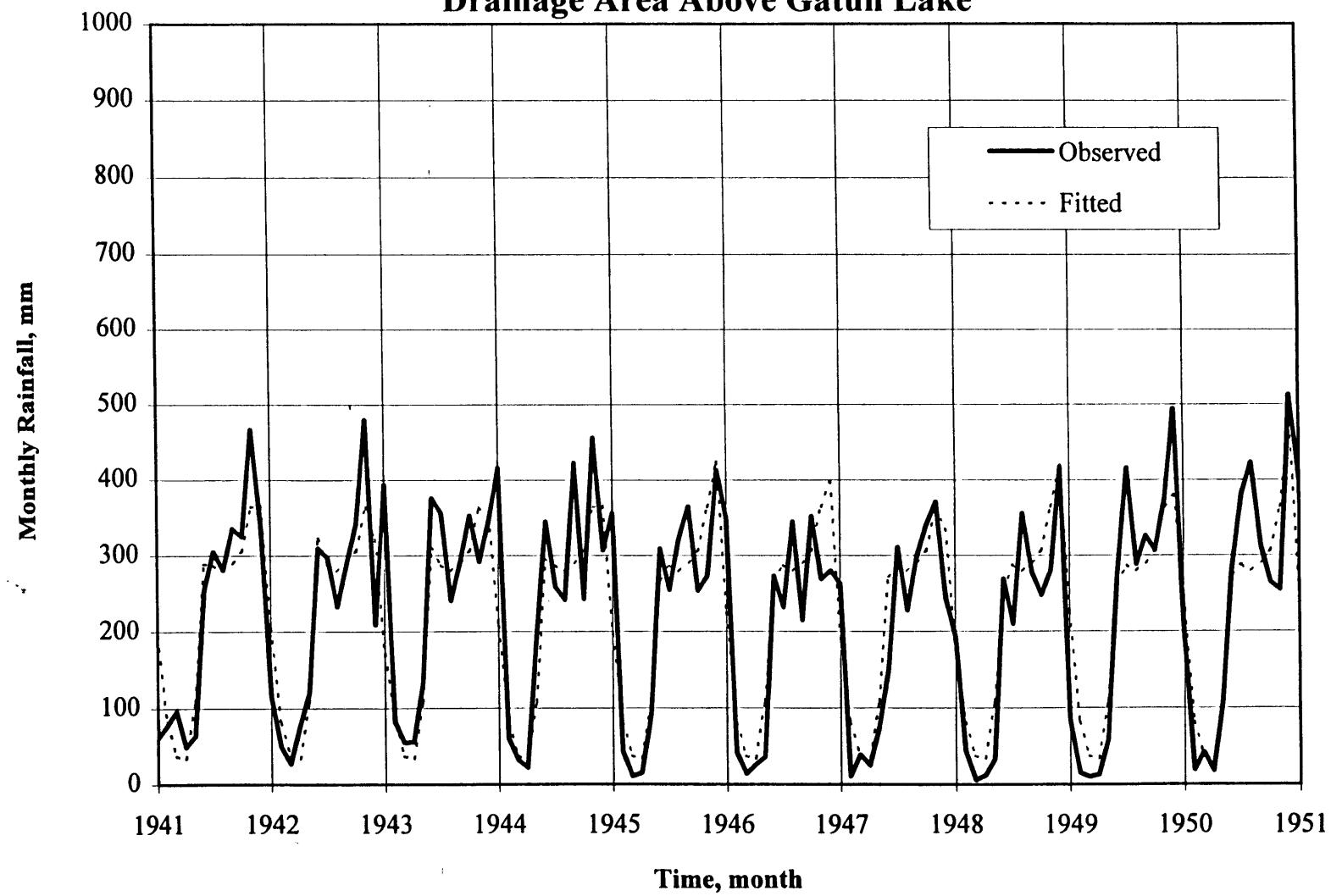
**Basin Average Rainfall
Drainage Area Above Gatun Lake**

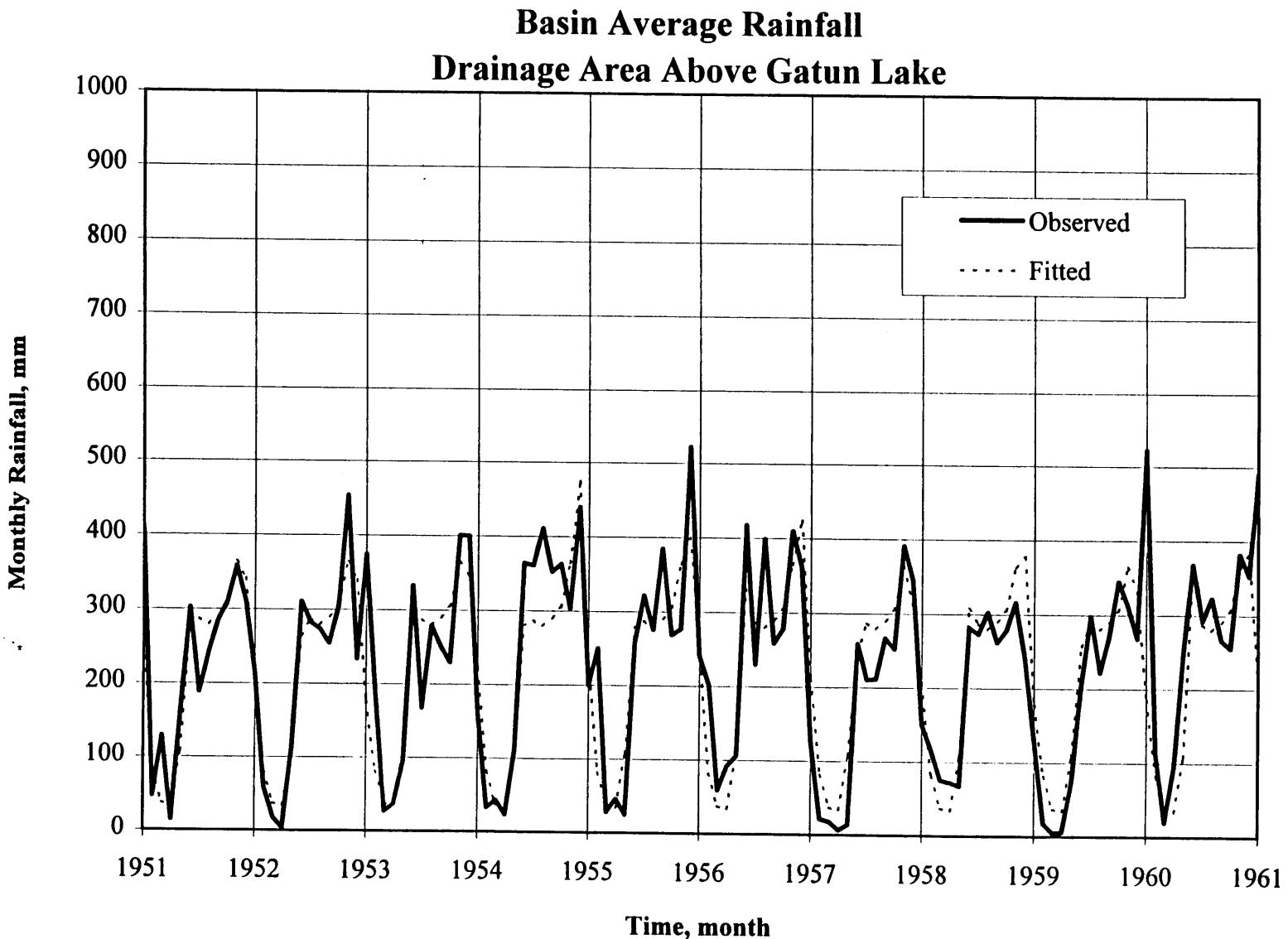


Basin Average Rainfall
Drainage Area Above Gatun Lake

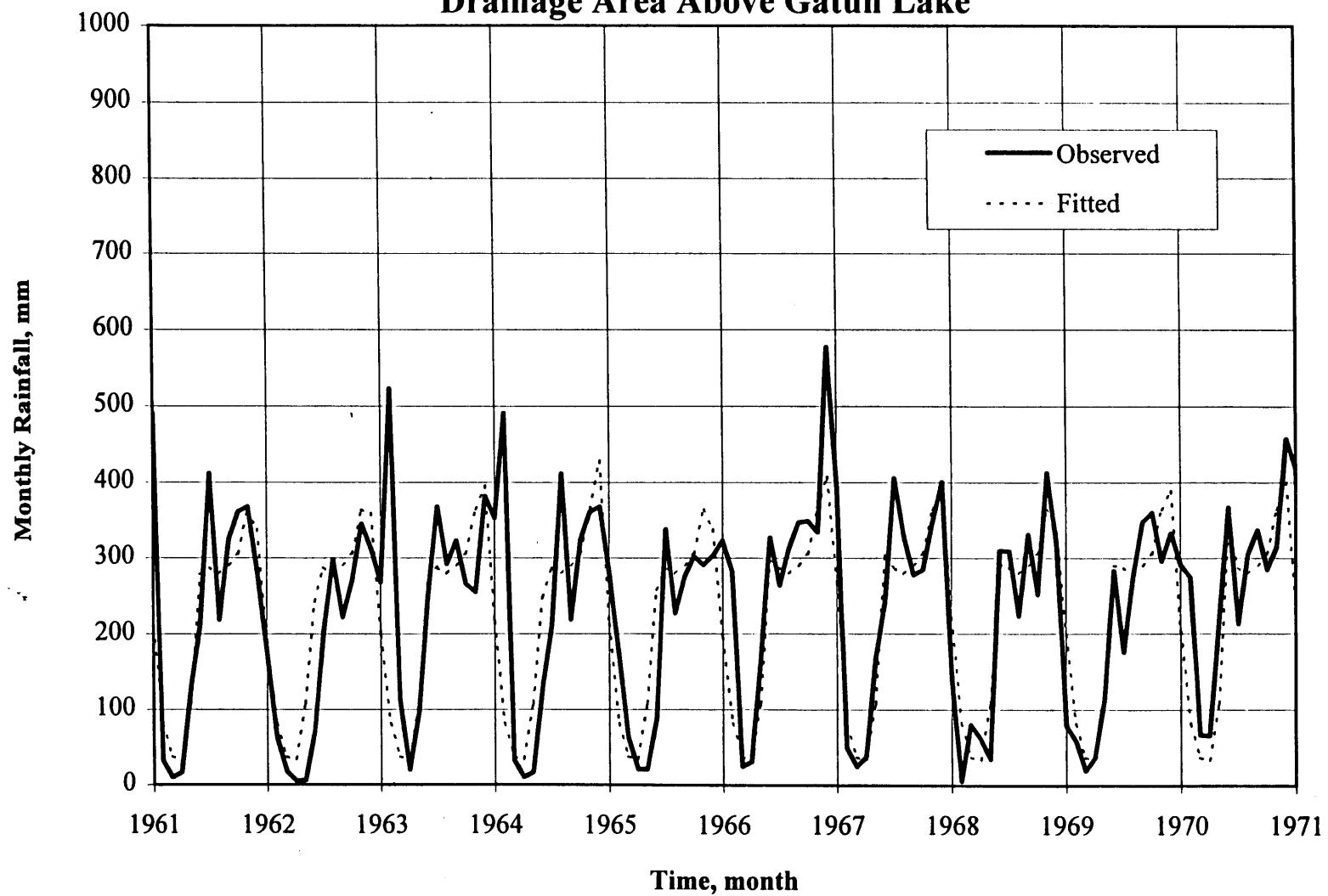


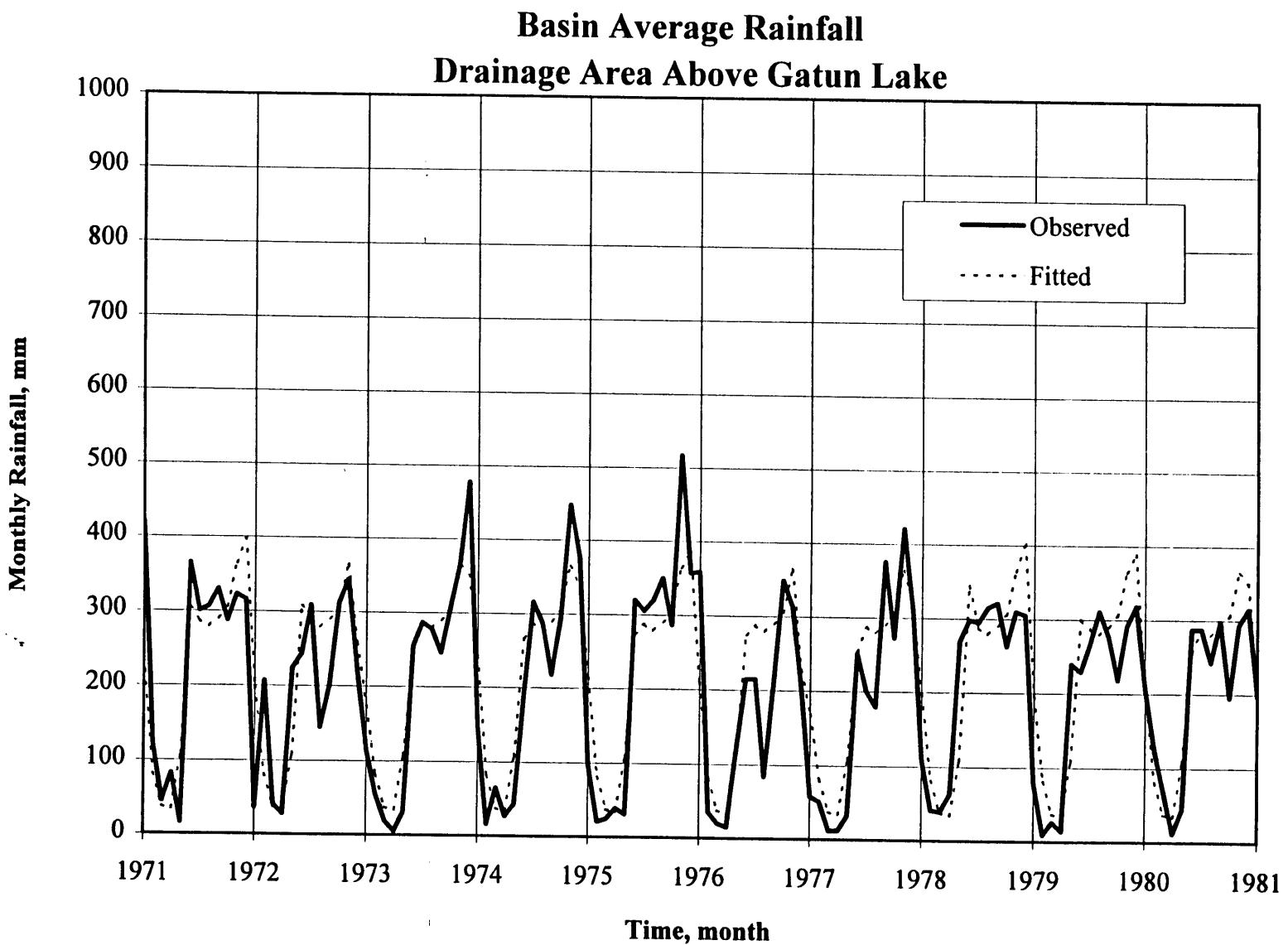
Basin Average Rainfall
Drainage Area Above Gatun Lake



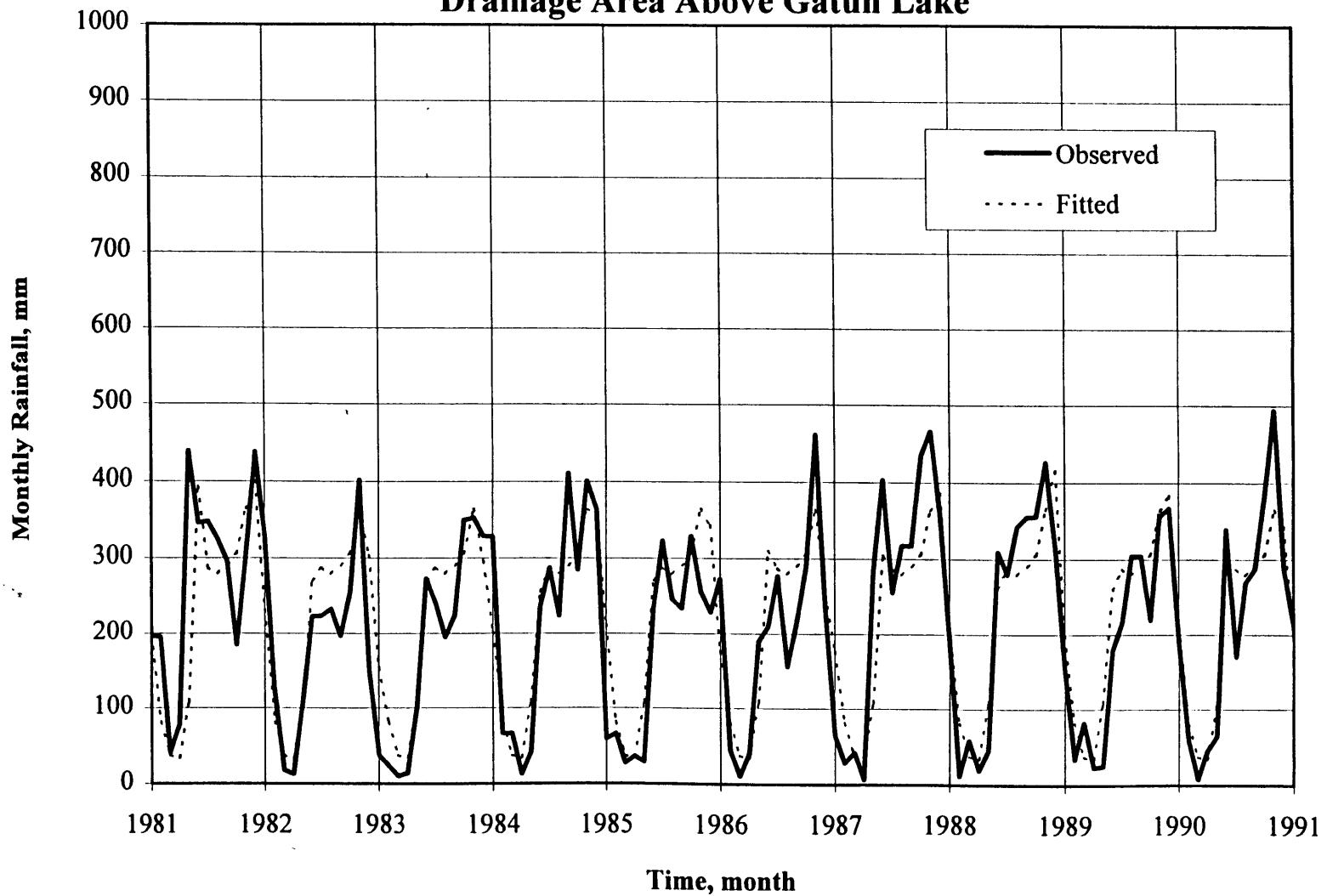


Basin Average Rainfall
Drainage Area Above Gatun Lake

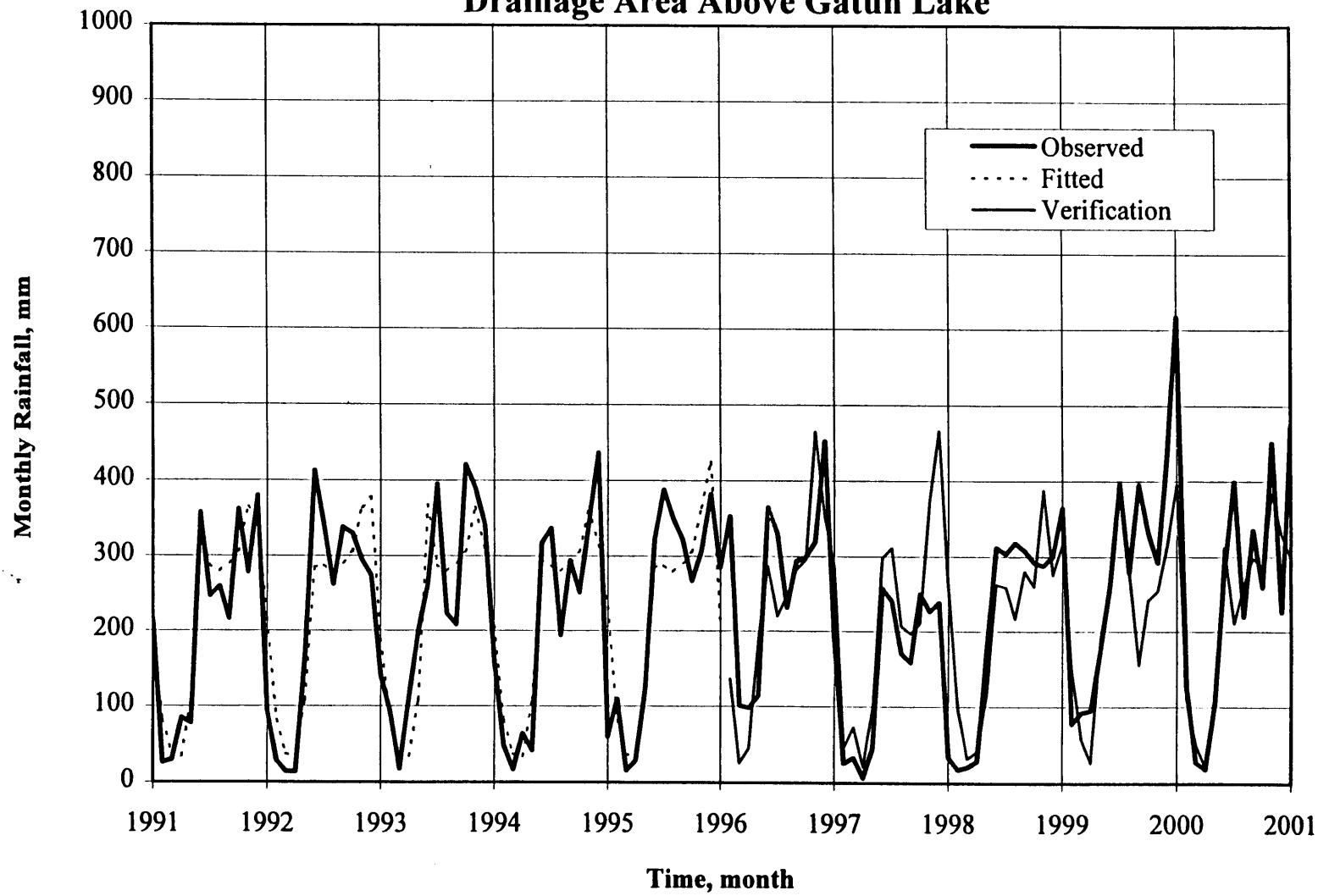




Basin Average Rainfall
Drainage Area Above Gatun Lake



Basin Average Rainfall Drainage Area Above Gatun Lake



**PERCENTAGE DIFFERENCES BETWEEN
OBSERVED AND FITTED / VERIFICATION RAINFALLS**

MADDEN MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jan-11	54	69	29	Jan-41	41	69	69	Jan-71	79	69	-12
Feb-11	75	43	-43	Feb-41	120	43	-64	Feb-71	31	43	38
Mar-11	36	40	10	Mar-41	86	40	-54	Mar-71	118	40	-66
Apr-11	169	130	-23	Apr-41	78	130	67	Apr-71	12	130	985
May-11	397	314	-21	May-41	313	314	0	May-71	346	314	-9
Jun-11	245	320	31	Jun-41	377	320	-15	Jun-71	394	320	-19
Jul-11	129	320	148	Jul-41	277	320	15	Jul-71	430	320	-26
Aug-11	190	269	42	Aug-41	291	306	5	Aug-71	353	343	-3
Sep-11	318	317	0	Sep-41	324	317	-2	Sep-71	325	317	-2
Oct-11	523	365	-30	Oct-41	550	365	-34	Oct-71	367	365	0
Nov-11	307	360	17	Nov-41	365	360	-1	Nov-71	333	360	8
Dec-11	83	216	160	Dec-41	82	216	163	Dec-71	51	216	323
Jan-12	49	69	42	Jan-42	30	69	132	Jan-72	296	69	-77
Feb-12	30	43	43	Feb-42	19	43	125	Feb-72	40	43	7
Mar-12	5	40	694	Mar-42	73	40	-46	Mar-72	21	40	89
Apr-12	83	130	57	Apr-42	97	130	34	Apr-72	232	130	-44
May-12	268	314	17	May-42	310	314	1	May-72	306	314	3
Jun-12	299	320	7	Jun-42	334	320	-4	Jun-72	370	320	-13
Jul-12	241	320	33	Jul-42	230	320	39	Jul-72	159	320	101
Aug-12	261	297	14	Aug-42	319	294	-8	Aug-72	204	276	36
Sep-12	266	317	19	Sep-42	307	317	3	Sep-72	293	317	8
Oct-12	409	365	-11	Oct-42	415	365	-12	Oct-72	357	365	2
Nov-12	407	360	-12	Nov-42	190	360	89	Nov-72	240	360	50
Dec-12	126	216	71	Dec-42	268	216	-20	Dec-72	120	216	80
Jan-13	41	69	69	Jan-43	87	69	-20	Jan-73	43	69	62
Feb-13	30	43	43	Feb-43	63	43	-32	Feb-73	27	43	59
Mar-13	13	40	205	Mar-43	49	40	-19	Mar-73	8	40	396
Apr-13	20	130	551	Apr-43	118	130	10	Apr-73	21	130	520
May-13	414	314	-24	May-43	346	314	-9	May-73	294	314	7
Jun-13	340	320	-6	Jun-43	348	320	-8	Jun-73	271	320	18
Jul-13	244	320	31	Jul-43	210	320	52	Jul-73	341	320	-6
Aug-13	288	297	3	Aug-43	292	289	-1	Aug-73	306	321	5
Sep-13	355	317	-11	Sep-43	384	317	-17	Sep-73	296	317	7
Oct-13	322	365	13	Oct-43	331	365	10	Oct-73	358	365	2
Nov-13	301	360	20	Nov-43	241	360	49	Nov-73	517	360	-30
Dec-13	148	216	46	Dec-43	441	216	-51	Dec-73	205	216	5
Jan-14	17	69	309	Jan-44	42	69	65	Jan-74	32	69	117
Feb-14	20	43	114	Feb-44	29	43	48	Feb-74	156	43	-73
Mar-14	37	40	7	Mar-44	23	40	73	Mar-74	35	40	13
Apr-14	68	130	91	Apr-44	213	130	-39	Apr-74	56	130	132
May-14	209	314	50	May-44	271	314	16	May-74	166	314	89
Jun-14	289	320	11	Jun-44	320	320	0	Jun-74	313	320	2
Jul-14	131	320	144	Jul-44	287	320	11	Jul-74	258	320	24
Aug-14	325	270	-17	Aug-44	442	308	-30	Aug-74	210	301	43
Sep-14	496	317	-36	Sep-44	274	317	16	Sep-74	346	317	-8
Oct-14	400	365	-9	Oct-44	498	365	-27	Oct-74	325	365	12
Nov-14	355	360	1	Nov-44	268	360	34	Nov-74	330	360	9
Dec-14	146	216	48	Dec-44	369	216	-42	Dec-74	100	216	116
Jan-15	19	69	266	Jan-45	29	69	139	Jan-75	26	69	167
Feb-15	168	43	-75	Feb-45	11	43	289	Feb-75	25	43	71
Mar-15	42	40	-5	Mar-45	10	40	297	Mar-75	24	40	65

MADDEN MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Apr-15	349	130	-63	Apr-45	111	130	17	Apr-75	36	130	262
May-15	229	314	37	May-45	309	314	2	May-75	411	314	-24
Jun-15	403	320	-21	Jun-45	360	320	-11	Jun-75	381	320	-16
Jul-15	502	320	-36	Jul-45	435	320	-26	Jul-75	406	320	-21
Aug-15	333	361	8	Aug-45	442	345	-22	Aug-75	343	337	-2
Sep-15	265	317	20	Sep-45	218	317	45	Sep-75	298	317	6
Oct-15	375	365	-3	Oct-45	238	365	54	Oct-75	556	365	-34
Nov-15	463	360	-22	Nov-45	310	360	16	Nov-75	353	360	2
Dec-15	223	216	-3	Dec-45	238	216	-9	Dec-75	335	216	-36
Jan-16	45	69	54	Jan-46	18	69	286	Jan-76	42	69	65
Feb-16	72	43	-41	Feb-46	11	43	289	Feb-76	29	43	48
Mar-16	17	40	134	Mar-46	21	40	89	Mar-76	38	40	5
Apr-16	288	130	-55	Apr-46	36	130	262	Apr-76	123	130	6
May-16	286	314	10	May-46	349	314	-10	May-76	203	314	55
Jun-16	269	320	19	Jun-46	330	320	-3	Jun-76	199	320	61
Jul-16	417	320	-23	Jul-46	429	320	-25	Jul-76	72	320	344
Aug-16	260	340	31	Aug-46	195	343	76	Aug-76	233	255	9
Sep-16	299	317	6	Sep-46	377	317	-16	Sep-76	323	317	-2
Oct-16	442	365	-17	Oct-46	257	365	42	Oct-76	257	365	42
Nov-16	303	360	19	Nov-46	218	360	65	Nov-76	214	360	68
Dec-16	102	216	111	Dec-46	259	216	-17	Dec-76	32	216	573
Jan-17	2	69	3373	Jan-47	8	69	768	Jan-77	81	69	-14
Feb-17	4	43	970	Feb-47	32	43	34	Feb-77	11	43	289
Mar-17	14	40	184	Mar-47	16	40	148	Mar-77	22	40	81
Apr-17	53	130	146	Apr-47	81	130	61	Apr-77	40	130	225
May-17	319	314	-1	May-47	120	314	162	May-77	235	314	34
Jun-17	297	320	8	Jun-47	318	320	1	Jun-77	221	320	45
Jul-17	437	320	-27	Jul-47	215	320	49	Jul-77	189	320	69
Aug-17	384	345	-10	Aug-47	320	290	-9	Aug-77	370	284	-23
Sep-17	309	317	3	Sep-47	245	317	29	Sep-77	291	317	9
Oct-17	259	365	41	Oct-47	269	365	36	Oct-77	447	365	-18
Nov-17	529	360	-32	Nov-47	234	360	54	Nov-77	277	360	30
Dec-17	187	216	15	Dec-47	238	216	-9	Dec-77	122	216	77
Jan-18	105	69	-34	Jan-48	30	69	132	Jan-78	30	69	132
Feb-18	42	43	2	Feb-48	8	43	435	Feb-78	57	43	-25
Mar-18	40	40	-1	Mar-48	10	40	297	Mar-78	64	40	-38
Apr-18	184	130	-29	Apr-48	33	130	294	Apr-78	277	130	-53
May-18	411	314	-24	May-48	209	314	50	May-78	401	314	-22
Jun-18	405	320	-21	Jun-48	264	320	21	Jun-78	345	320	-7
Jul-18	321	320	0	Jul-48	422	320	-24	Jul-78	329	320	-3
Aug-18	231	316	37	Aug-48	234	341	46	Aug-78	332	318	-4
Sep-18	310	317	2	Sep-48	236	317	34	Sep-78	296	317	7
Oct-18	354	365	3	Oct-48	284	365	29	Oct-78	307	365	19
Nov-18	233	360	55	Nov-48	364	360	-1	Nov-78	357	360	1
Dec-18	33	216	553	Dec-48	93	216	132	Dec-78	104	216	107
Jan-19	100	69	-31	Jan-49	9	69	672	Jan-79	9	69	672
Feb-19	40	43	7	Feb-49	12	43	257	Feb-79	28	43	53
Mar-19	17	40	134	Mar-49	14	40	184	Mar-79	29	40	37
Apr-19	339	130	-62	Apr-49	63	130	107	Apr-79	238	130	-45
May-19	198	314	59	May-49	245	314	28	May-79	186	314	69

MADDEN MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

Mon-Yr	Observed	Fitted	% Diff.	Mon-Yr	Observed	Fitted	% Diff.	Mon-Yr	Observed	Fitted	% Diff.
Jun-19	218	320	47	Jun-49	488	320	-34	Jun-79	227	320	41
Jul-19	253	320	26	Jul-49	367	320	-13	Jul-79	376	320	-15
Aug-19	319	300	-6	Aug-49	324	328	1	Aug-79	252	330	31
Sep-19	427	317	-26	Sep-49	322	317	-2	Sep-79	192	317	65
Oct-19	332	365	10	Oct-49	364	365	0	Oct-79	308	365	19
Nov-19	261	360	38	Nov-49	374	360	-4	Nov-79	405	360	-11
Dec-19	199	216	8	Dec-49	110	216	96	Dec-79	331	216	-35
Jan-20	50	69	39	Jan-50	17	69	309	Jan-80	118	69	-41
Feb-20	23	43	86	Feb-50	41	43	4	Feb-80	95	43	-55
Mar-20	49	40	-19	Mar-50	10	40	297	Mar-80	24	40	65
Apr-20	103	130	26	Apr-50	137	130	-5	Apr-80	55	130	137
May-20	261	314	20	May-50	325	314	-3	May-80	254	314	24
Jun-20	306	320	5	Jun-50	372	320	-14	Jun-80	340	320	-6
Jul-20	492	320	-35	Jul-50	536	320	-40	Jul-80	203	320	58
Aug-20	332	359	8	Aug-50	386	369	-4	Aug-80	322	287	-11
Sep-20	265	317	20	Sep-50	263	317	21	Sep-80	225	317	41
Oct-20	443	365	-18	Oct-50	188	365	94	Oct-80	301	365	21
Nov-20	289	360	25	Nov-50	354	360	2	Nov-80	333	360	8
Dec-20	56	216	285	Dec-50	354	216	-39	Dec-80	235	216	-8
Jan-21	29	69	139	Jan-51	33	69	110	Jan-81	177	69	-61
Feb-21	74	43	-42	Feb-51	164	43	-74	Feb-81	54	43	-21
Mar-21	26	40	53	Mar-51	14	40	184	Mar-81	69	40	-42
Apr-21	207	130	-37	Apr-51	162	130	-20	Apr-81	620	130	-79
May-21	292	314	8	May-51	327	314	-4	May-81	304	314	3
Jun-21	349	320	-8	Jun-51	219	320	46	Jun-81	355	320	-10
Jul-21	390	320	-18	Jul-51	258	320	24	Jul-81	362	320	-12
Aug-21	469	333	-29	Aug-51	383	301	-21	Aug-81	296	327	10
Sep-21	455	317	-30	Sep-51	361	317	-12	Sep-81	204	317	55
Oct-21	496	365	-26	Oct-51	361	365	1	Oct-81	260	365	41
Nov-21	278	360	30	Nov-51	259	360	39	Nov-81	299	360	20
Dec-21	268	216	-20	Dec-51	158	216	36	Dec-81	301	216	-28
Jan-22	168	69	-59	Jan-52	40	69	74	Jan-82	81	69	-14
Feb-22	51	43	-16	Feb-52	8	43	435	Feb-82	19	43	125
Mar-22	34	40	17	Mar-52	2	40	1886	Mar-82	12	40	231
Apr-22	98	130	33	Apr-52	114	130	14	Apr-82	100	130	30
May-22	399	314	-21	May-52	333	314	-6	May-82	196	314	60
Jun-22	344	320	-7	Jun-52	311	320	3	Jun-82	268	320	19
Jul-22	125	320	156	Jul-52	392	320	-18	Jul-82	320	320	0
Aug-22	219	268	22	Aug-52	371	334	-10	Aug-82	186	316	70
Sep-22	265	317	20	Sep-52	438	317	-28	Sep-82	256	317	24
Oct-22	344	365	6	Oct-52	520	365	-30	Oct-82	428	365	-15
Nov-22	345	360	4	Nov-52	234	360	54	Nov-82	137	360	163
Dec-22	300	216	-28	Dec-52	432	216	-50	Dec-82	57	216	278
Jan-23	49	69	42	Jan-53	238	69	-71	Jan-83	30	69	132
Feb-23	36	43	19	Feb-53	42	43	2	Feb-83	24	43	78
Mar-23	12	40	231	Mar-53	59	40	-33	Mar-83	29	40	37
Apr-23	47	130	177	Apr-53	108	130	21	Apr-83	163	130	-20
May-23	232	314	35	May-53	413	314	-24	May-83	310	314	1
Jun-23	342	320	-6	Jun-53	161	320	99	Jun-83	236	320	36
Jul-23	251	320	27	Jul-53	297	320	8	Jul-83	173	320	85

MADDEN MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Aug-23	226	299	32	Aug-53	238	310	30	Aug-83	226	280	24
Sep-23	335	317	-5	Sep-53	197	317	61	Sep-83	409	317	-23
Oct-23	654	365	-44	Oct-53	375	365	-3	Oct-83	475	365	-23
Nov-23	274	360	31	Nov-53	359	360	0	Nov-83	345	360	4
Dec-23	139	216	55	Dec-53	204	216	6	Dec-83	485	216	-56
Jan-24	42	69	65	Jan-54	32	69	117	Jan-84	45	69	54
Feb-24	66	43	-35	Feb-54	70	43	-39	Feb-84	58	43	-26
Mar-24	14	40	184	Mar-54	32	40	24	Mar-84	11	40	261
Apr-24	193	130	-33	Apr-54	75	130	74	Apr-84	20	130	551
May-24	363	314	-13	May-54	392	314	-20	May-84	196	314	60
Jun-24	280	320	14	Jun-54	383	320	-16	Jun-84	325	320	-1
Jul-24	505	320	-37	Jul-54	423	320	-24	Jul-84	305	320	5
Aug-24	416	362	-13	Aug-54	346	342	-1	Aug-84	467	312	-33
Sep-24	423	317	-25	Sep-54	382	317	-17	Sep-84	228	317	39
Oct-24	215	365	70	Oct-54	309	365	18	Oct-84	377	365	-3
Nov-24	241	360	49	Nov-54	459	360	-22	Nov-84	317	360	14
Dec-24	84	216	157	Dec-54	258	216	-16	Dec-84	88	216	145
Jan-25	96	69	-28	Jan-55	265	69	-74	Jan-85	63	69	10
Feb-25	25	43	71	Feb-55	27	43	59	Feb-85	27	43	59
Mar-25	9	40	341	Mar-55	75	40	-47	Mar-85	69	40	-42
Apr-25	144	130	-10	Apr-55	22	130	492	Apr-85	53	130	146
May-25	201	314	56	May-55	174	314	81	May-85	203	314	55
Jun-25	465	320	-31	Jun-55	291	320	10	Jun-85	366	320	-13
Jul-25	373	320	-14	Jul-55	348	320	-8	Jul-85	280	320	14
Aug-25	260	329	27	Aug-55	470	323	-31	Aug-85	206	306	49
Sep-25	288	317	10	Sep-55	254	317	25	Sep-85	383	317	-17
Oct-25	460	365	-21	Oct-55	240	365	52	Oct-85	281	365	30
Nov-25	260	360	38	Nov-55	607	360	-41	Nov-85	201	360	79
Dec-25	162	216	33	Dec-55	220	216	-2	Dec-85	322	216	-33
Jan-26	12	69	479	Jan-56	238	69	-71	Jan-86	62	69	12
Feb-26	35	43	22	Feb-56	88	43	-51	Feb-86	10	43	328
Mar-26	41	40	-3	Mar-56	105	40	-62	Mar-86	48	40	-17
Apr-26	104	130	25	Apr-56	134	130	-3	Apr-86	248	130	-48
May-26	262	314	20	May-56	464	314	-32	May-86	299	314	5
Jun-26	476	320	-33	Jun-56	307	320	4	Jun-86	334	320	-4
Jul-26	398	320	-20	Jul-56	437	320	-27	Jul-86	146	320	119
Aug-26	369	335	-9	Aug-56	312	345	11	Aug-86	224	273	22
Sep-26	353	317	-10	Sep-56	276	317	15	Sep-86	339	317	-7
Oct-26	369	365	-1	Oct-56	339	365	8	Oct-86	492	365	-26
Nov-26	360	360	0	Nov-56	433	360	-17	Nov-86	295	360	22
Dec-26	349	216	-38	Dec-56	163	216	32	Dec-86	72	216	199
Jan-27	80	69	-13	Jan-57	24	69	189	Jan-87	43	69	62
Feb-27	117	43	-63	Feb-57	34	43	26	Feb-87	57	43	-25
Mar-27	86	40	-54	Mar-57	7	40	467	Mar-87	12	40	231
Apr-27	240	130	-46	Apr-57	25	130	421	Apr-87	416	130	-69
May-27	471	314	-33	May-57	233	314	35	May-87	514	314	-39
Jun-27	352	320	-9	Jun-57	191	320	68	Jun-87	309	320	4
Jul-27	613	320	-48	Jul-57	166	320	93	Jul-87	423	320	-24
Aug-27	223	388	74	Aug-57	191	278	46	Aug-87	359	342	-5
Sep-27	325	317	-2	Sep-57	193	317	64	Sep-87	411	317	-23

MADDEN MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

Mon-Yr	Observed	Fitted	% Diff.	Mon-Yr	Observed	Fitted	% Diff.	Mon-Yr	Observed	Fitted	% Diff.
Oct-27	248	365	47	Oct-57	387	365	-6	Oct-87	442	365	-17
Nov-27	416	360	-13	Nov-57	415	360	-13	Nov-87	497	360	-28
Dec-27	498	216	-57	Dec-57	155	216	39	Dec-87	179	216	20
Jan-28	83	69	-16	Jan-58	123	69	-44	Jan-88	20	69	247
Feb-28	27	43	59	Feb-58	56	43	-24	Feb-88	117	43	-63
Mar-28	120	40	-67	Mar-58	63	40	-37	Mar-88	44	40	-10
Apr-28	51	130	155	Apr-58	37	130	252	Apr-88	58	130	124
May-28	229	314	37	May-58	288	314	9	May-88	401	314	-22
Jun-28	340	320	-6	Jun-58	338	320	-5	Jun-88	317	320	1
Jul-28	323	320	-1	Jul-58	369	320	-13	Jul-88	528	320	-39
Aug-28	378	317	-16	Aug-58	274	328	20	Aug-88	449	367	-18
Sep-28	310	317	2	Sep-58	310	317	2	Sep-88	353	317	-10
Oct-28	424	365	-14	Oct-58	242	365	51	Oct-88	517	365	-29
Nov-28	449	360	-20	Nov-58	321	360	12	Nov-88	321	360	12
Dec-28	221	216	-2	Dec-58	114	216	89	Dec-88	125	216	72
Jan-29	7	69	892	Jan-59	21	69	231	Jan-89	64	69	9
Feb-29	51	43	-16	Feb-59	10	43	328	Feb-89	128	43	-67
Mar-29	47	40	-16	Mar-59	7	40	467	Mar-89	18	40	121
Apr-29	48	130	171	Apr-59	85	130	53	Apr-89	30	130	334
May-29	250	314	26	May-59	190	314	65	May-89	184	314	71
Jun-29	334	320	-4	Jun-59	368	320	-13	Jun-89	286	320	12
Jul-29	333	320	-4	Jul-59	231	320	38	Jul-89	414	320	-23
Aug-29	375	319	-15	Aug-59	330	294	-11	Aug-89	348	339	-2
Sep-29	267	317	19	Sep-59	416	317	-24	Sep-89	238	317	33
Oct-29	333	365	10	Oct-59	358	365	2	Oct-89	373	365	-2
Nov-29	305	360	18	Nov-59	306	360	18	Nov-89	396	360	-9
Dec-29	128	216	68	Dec-59	454	216	-53	Dec-89	210	216	3
Jan-30	80	69	-13	Jan-60	111	69	-37	Jan-90	78	69	-11
Feb-30	25	43	71	Feb-60	23	43	86	Feb-90	13	43	229
Mar-30	41	40	-3	Mar-60	56	40	-29	Mar-90	52	40	-24
Apr-30	204	130	-36	Apr-60	243	130	-46	Apr-90	45	130	189
May-30	345	314	-9	May-60	461	314	-32	May-90	326	314	-4
Jun-30	177	320	81	Jun-60	267	320	20	Jun-90	152	320	111
Jul-30	317	320	1	Jul-60	372	320	-14	Jul-90	274	320	17
Aug-30	164	315	92	Aug-60	317	329	4	Aug-90	352	305	-13
Sep-30	315	317	1	Sep-60	266	317	19	Sep-90	353	317	-10
Oct-30	222	365	65	Oct-60	336	365	9	Oct-90	561	365	-35
Nov-30	219	360	64	Nov-60	301	360	20	Nov-90	282	360	28
Dec-30	94	216	129	Dec-60	545	216	-60	Dec-90	218	216	-1
Jan-31	81	69	-14	Jan-61	30	69	132	Jan-91	30	69	132
Feb-31	36	43	19	Feb-61	8	43	435	Feb-91	48	43	-11
Mar-31	146	40	-73	Mar-61	16	40	148	Mar-91	70	40	-43
Apr-31	39	130	234	Apr-61	160	130	-19	Apr-91	120	130	8
May-31	493	314	-36	May-61	244	314	29	May-91	362	314	-13
Jun-31	357	320	-10	Jun-61	512	320	-37	Jun-91	259	320	24
Jul-31	293	320	9	Jul-61	242	320	32	Jul-91	285	320	12
Aug-31	246	309	26	Aug-61	319	297	-7	Aug-91	246	308	25
Sep-31	386	317	-18	Sep-61	355	317	-11	Sep-91	393	317	-19
Oct-31	431	365	-15	Oct-61	340	365	7	Oct-91	304	365	20
Nov-31	818	360	-56	Nov-61	239	360	51	Nov-91	437	360	-18

MADDEN MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Dec-31	253	216	-15	Dec-61	159	216	36	Dec-91	95	216	127
Jan-32	92	69	-25	Jan-62	58	69	20	Jan-92	35	69	98
Feb-32	8	43	435	Feb-62	16	43	168	Feb-92	20	43	114
Mar-32	42	40	-5	Mar-62	28	40	42	Mar-92	25	40	59
Apr-32	158	130	-18	Apr-62	113	130	15	Apr-92	173	130	-25
May-32	311	314	1	May-62	359	314	-12	May-92	523	314	-40
Jun-32	271	320	18	Jun-62	217	320	48	Jun-92	405	320	-21
Jul-32	198	320	62	Jul-62	291	320	10	Jul-92	299	320	7
Aug-32	328	286	-13	Aug-62	338	309	-9	Aug-92	426	311	-27
Sep-32	305	317	4	Sep-62	267	317	19	Sep-92	300	317	6
Oct-32	564	365	-35	Oct-62	369	365	-1	Oct-92	329	365	11
Nov-32	644	360	-44	Nov-62	310	360	16	Nov-92	272	360	32
Dec-32	240	216	-10	Dec-62	235	216	-8	Dec-92	158	216	36
Jan-33	125	69	-44	Jan-63	129	69	-46	Jan-93	97	69	-28
Feb-33	22	43	95	Feb-63	74	43	-42	Feb-93	14	43	206
Mar-33	57	40	-30	Mar-63	19	40	109	Mar-93	180	40	-78
Apr-33	82	130	59	Apr-63	277	130	-53	Apr-93	267	130	-51
May-33	369	314	-15	May-63	345	314	-9	May-93	313	314	0
Jun-33	324	320	-1	Jun-63	392	320	-18	Jun-93	561	320	-43
Jul-33	430	320	-26	Jul-63	403	320	-21	Jul-93	220	320	45
Aug-33	305	343	13	Aug-63	455	337	-26	Aug-93	197	291	48
Sep-33	311	317	2	Sep-63	301	317	5	Sep-93	434	317	-27
Oct-33	178	365	105	Oct-63	218	365	68	Oct-93	426	365	-14
Nov-33	461	360	-22	Nov-63	279	360	29	Nov-93	262	360	37
Dec-33	237	216	-9	Dec-63	66	216	227	Dec-93	146	216	48
Jan-34	34	69	104	Jan-64	4	69	1636	Jan-94	39	69	78
Feb-34	4	43	970	Feb-64	15	43	185	Feb-94	37	43	16
Mar-34	27	40	47	Mar-64	14	40	184	Mar-94	85	40	-53
Apr-34	77	130	69	Apr-64	122	130	7	Apr-94	44	130	196
May-34	417	314	-25	May-64	190	314	65	May-94	416	314	-24
Jun-34	252	320	27	Jun-64	398	320	-20	Jun-94	404	320	-21
Jul-34	305	320	5	Jul-64	364	320	-12	Jul-94	255	320	25
Aug-34	256	312	22	Aug-64	383	327	-15	Aug-94	348	300	-14
Sep-34	309	317	3	Sep-64	266	317	19	Sep-94	251	317	26
Oct-34	391	365	-7	Oct-64	416	365	-12	Oct-94	363	365	1
Nov-34	433	360	-17	Nov-64	398	360	-10	Nov-94	511	360	-30
Dec-34	205	216	5	Dec-64	104	216	107	Dec-94	91	216	137
Jan-35	76	69	-9	Jan-65	43	69	62	Jan-95	95	69	-27
Feb-35	64	43	-33	Feb-65	11	43	289	Feb-95	11	43	289
Mar-35	22	40	81	Mar-65	8	40	396	Mar-95	49	40	-19
Apr-35	64	130	103	Apr-65	29	130	349	Apr-95	104	130	25
May-35	396	314	-21	May-65	293	314	7	May-95	301	314	4
Jun-35	346	320	-7	Jun-65	252	320	27	Jun-95	479	320	-33
Jul-35	585	320	-45	Jul-65	231	320	38	Jul-95	418	320	-23
Aug-35	409	382	-7	Aug-65	280	294	5	Aug-95	380	340	-10
Sep-35	298	317	6	Sep-65	347	317	-9	Sep-95	282	317	12
Oct-35	328	365	11	Oct-65	388	365	-6	Oct-95	295	365	24
Nov-35	1093	360	-67	Nov-65	469	360	-23	Nov-95	364	360	-1
Dec-35	396	216	-46	Dec-65	248	216	-13	Dec-95	345	216	-38
Jan-36	65	69	7	Jan-66	88	69	-21	Jan-96	383	110	-71

MADDEN MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Feb-36	18	43	138	Feb-66	21	43	104	Feb-96	127	28	-78
Mar-36	7	40	467	Mar-66	36	40	10	Mar-96	109	54	-51
Apr-36	82	130	59	Apr-66	286	130	-54	Apr-96	202	235	16
May-36	420	314	-25	May-66	381	314	-17	May-96	454	315	-31
Jun-36	197	320	63	Jun-66	263	320	22	Jun-96	394	229	-42
Jul-36	308	320	4	Jul-66	322	320	-1	Jul-96	248	274	11
Aug-36	309	313	1	Aug-66	343	317	-8	Aug-96	367	287	-22
Sep-36	367	317	-14	Sep-66	390	317	-19	Sep-96	305	305	0
Oct-36	376	365	-3	Oct-66	418	365	-13	Oct-96	328	487	48
Nov-36	349	360	3	Nov-66	577	360	-38	Nov-96	536	372	-31
Dec-36	74	216	191	Dec-66	444	216	-51	Dec-96	325	271	-17
Jan-37	154	69	-55	Jan-67	51	69	36	Jan-97	32	43	34
Feb-37	30	43	43	Feb-67	32	43	34	Feb-97	57	25	-57
Mar-37	22	40	81	Mar-67	54	40	-26	Mar-97	17	36	111
Apr-37	60	130	117	Apr-67	247	130	-47	Apr-97	86	147	71
May-37	302	314	4	May-67	268	314	17	May-97	300	351	17
Jun-37	288	320	11	Jun-67	525	320	-39	Jun-97	271	242	-11
Jul-37	338	320	-5	Jul-67	392	320	-18	Jul-97	153	332	117
Aug-37	284	321	13	Aug-67	293	334	14	Aug-97	144	406	182
Sep-37	374	317	-15	Sep-67	329	317	-4	Sep-97	267	358	34
Oct-37	381	365	-4	Oct-67	363	365	1	Oct-97	262	307	17
Nov-37	504	360	-29	Nov-67	423	360	-15	Nov-97	271	615	127
Dec-37	500	216	-57	Dec-67	232	216	-7	Dec-97	31	340	996
Jan-38	37	69	88	Jan-68	9	69	672	Jan-98	33	80	143
Feb-38	51	43	-16	Feb-68	66	43	-35	Feb-98	25	37	46
Mar-38	30	40	32	Mar-68	75	40	-47	Mar-98	32	50	55
Apr-38	209	130	-38	Apr-68	46	130	183	Apr-98	150	138	-8
May-38	665	314	-53	May-68	348	314	-10	May-98	407	281	-31
Jun-38	411	320	-22	Jun-68	308	320	4	Jun-98	302	281	-7
Jul-38	281	320	14	Jul-68	285	320	12	Jul-98	400	233	-42
Aug-38	494	307	-38	Aug-68	306	308	0	Aug-98	379	322	-15
Sep-38	329	317	-4	Sep-68	233	317	36	Sep-98	394	260	-34
Oct-38	309	365	18	Oct-68	453	365	-19	Oct-98	300	394	31
Nov-38	286	360	26	Nov-68	323	360	11	Nov-98	370	193	-48
Dec-38	496	216	-57	Dec-68	133	216	62	Dec-98	391	346	-11
Jan-39	27	69	157	Jan-69	65	69	7	Jan-99	92	119	29
Feb-39	1	43	4180	Feb-69	22	43	95	Feb-99	151	69	-54
Mar-39	28	40	42	Mar-69	70	40	-43	Mar-99	96	31	-67
Apr-39	15	130	768	Apr-69	132	130	-1	Apr-99	216	233	8
May-39	138	314	128	May-69	309	314	2	May-99	367	286	-22
Jun-39	352	320	-9	Jun-69	157	320	104	Jun-99	492	453	-8
Jul-39	162	320	97	Jul-69	270	320	18	Jul-99	399	320	-20
Aug-39	332	277	-17	Aug-69	360	304	-16	Aug-99	352	165	-53
Sep-39	372	317	-15	Sep-69	365	317	-13	Sep-99	340	238	-30
Oct-39	341	365	7	Oct-69	189	365	93	Oct-99	329	233	-29
Nov-39	485	360	-26	Nov-69	294	360	22	Nov-99	411	243	-41
Dec-39	213	216	1	Dec-69	367	216	-41	Dec-99	815	394	-52
Jan-40	72	69	-4	Jan-70	384	69	-82	Jan-00	133	91	-32
Feb-40	35	43	22	Feb-70	89	43	-52	Feb-00	43	60	39
Mar-40	18	40	121	Mar-70	68	40	-42	Mar-00	41	25	-38

MADDEN MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Apr-40	58	130	124	Apr-70	291	130	-55	Apr-00	126	123	-2
May-40	256	314	23	May-70	457	314	-31	May-00	301	350	16
Jun-40	199	320	61	Jun-70	202	320	59	Jun-00	461	216	-53
Jul-40	233	320	37	Jul-70	300	320	7	Jul-00	246	293	19
Aug-40	308	295	-4	Aug-70	389	311	-20	Aug-00	433	307	-29
Sep-40	282	317	12	Sep-70	347	317	-9	Sep-00	341	293	-14
Oct-40	316	365	16	Oct-70	297	365	23	Oct-00	482	389	-19
Nov-40	358	360	1	Nov-70	356	360	1	Nov-00	252	360	43
Dec-40	70	216	208	Dec-70	418	216	-48	Dec-00	660	350	-47

Note: The numbers in Italic face for the period Jan-96 to Dec-00 are verification rainfalls.

GATUN DOWNSTREAM MONTHLY RAINFALL, MM
SIN D PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jan-11	44	68	54	Jan-41	92	68	-26	Jan-71	142	68	-52
Feb-11	43	33	-23	Feb-41	85	33	-61	Feb-71	50	33	-34
Mar-11	38	31	-18	Mar-41	32	31	-2	Mar-71	68	31	-54
Apr-11	135	108	-20	Apr-41	57	104	83	Apr-71	17	129	658
May-11	451	285	-37	May-41	228	285	25	May-71	373	285	-24
Jun-11	275	273	-1	Jun-41	272	273	0	Jun-71	260	273	5
Jul-11	177	261	47	Jul-41	282	260	-8	Jul-71	254	256	1
Aug-11	190	285	50	Aug-41	354	285	-20	Aug-71	319	285	-11
Sep-11	230	300	30	Sep-41	325	300	-8	Sep-71	271	300	11
Oct-11	456	365	-20	Oct-41	430	365	-15	Oct-71	304	365	20
Nov-11	289	282	-2	Nov-41	327	392	20	Nov-71	308	381	24
Dec-11	33	177	437	Dec-41	131	188	44	Dec-71	30	183	509
Jan-12	23	68	195	Jan-42	59	68	15	Jan-72	168	68	-60
Feb-12	50	33	-34	Feb-42	30	33	10	Feb-72	41	33	-20
Mar-12	20	31	57	Mar-42	78	31	-60	Mar-72	30	31	4
Apr-12	62	96	55	Apr-42	129	136	5	Apr-72	220	103	-53
May-12	253	285	13	May-42	309	285	-8	May-72	215	285	33
Jun-12	255	273	7	Jun-42	280	273	-2	Jun-72	282	273	-3
Jul-12	257	255	-1	Jul-42	234	262	12	Jul-72	139	262	89
Aug-12	288	285	-1	Aug-42	273	285	4	Aug-72	198	285	44
Sep-12	320	300	-6	Sep-42	357	300	-16	Sep-72	320	300	-6
Oct-12	457	365	-20	Oct-42	507	365	-28	Oct-72	338	365	8
Nov-12	393	358	-9	Nov-42	216	331	53	Nov-72	211	266	26
Dec-12	213	207	-3	Dec-42	447	156	-65	Dec-72	113	155	37
Jan-13	90	68	-25	Jan-43	80	68	-15	Jan-73	59	68	15
Feb-13	40	33	-18	Feb-43	52	33	-37	Feb-73	15	33	120
Mar-13	9	31	248	Mar-43	59	31	-47	Mar-73	4	31	683
Apr-13	71	88	25	Apr-43	141	123	-13	Apr-73	35	85	143
May-13	373	285	-24	May-43	389	285	-27	May-73	238	285	20
Jun-13	253	273	8	Jun-43	359	273	-24	Jun-73	294	273	-7
Jul-13	243	254	5	Jul-43	254	284	12	Jul-73	250	266	6
Aug-13	374	285	-24	Aug-43	290	285	-2	Aug-73	219	285	30
Sep-13	343	300	-13	Sep-43	339	300	-11	Sep-73	311	300	-4
Oct-13	268	365	36	Oct-43	275	365	33	Oct-73	369	365	-1
Nov-13	352	385	9	Nov-43	391	377	-4	Nov-73	460	351	-24
Dec-13	163	195	20	Dec-43	404	207	-49	Dec-73	123	227	84
Jan-14	29	68	134	Jan-44	68	68	0	Jan-74	10	68	577
Feb-14	21	33	57	Feb-44	34	33	-3	Feb-74	26	33	27
Mar-14	23	31	36	Mar-44	22	31	42	Mar-74	24	31	31
Apr-14	67	98	46	Apr-44	182	97	-47	Apr-74	38	99	160
May-14	301	285	-5	May-44	376	285	-24	May-74	197	285	45
Jun-14	360	273	-24	Jun-44	231	273	18	Jun-74	316	273	-14
Jul-14	122	284	133	Jul-44	222	248	12	Jul-74	301	272	-10
Aug-14	287	285	-1	Aug-44	413	285	-31	Aug-74	220	285	29
Sep-14	414	300	-28	Sep-44	229	300	31	Sep-74	272	300	10
Oct-14	385	365	-5	Oct-44	437	365	-16	Oct-74	500	365	-27
Nov-14	418	261	-37	Nov-44	323	360	11	Nov-74	394	376	-5
Dec-14	165	214	30	Dec-44	349	187	-46	Dec-74	97	208	114
Jan-15	60	68	13	Jan-45	49	68	38	Jan-75	18	68	276
Feb-15	155	33	-79	Feb-45	10	33	230	Feb-75	25	33	32
Mar-15	43	31	-27	Mar-45	17	31	84	Mar-75	46	31	-32

GATUN DOWNSTREAM MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

Mon-Yr	Observed	Fitted	% Diff.	Mon-Yr	Observed	Fitted	% Diff.	Mon-Yr	Observed	Fitted	% Diff.
Apr-15	315	112	-65	Apr-45	79	94	19	Apr-75	29	114	292
May-15	227	285	26	May-45	308	285	-7	May-75	279	285	2
Jun-15	321	273	-15	Jun-45	209	273	31	Jun-75	273	273	0
Jul-15	347	273	-21	Jul-45	274	242	-12	Jul-75	282	260	-8
Aug-15	231	285	23	Aug-45	331	285	-14	Aug-75	353	285	-19
Sep-15	292	300	3	Sep-45	270	300	11	Sep-75	281	300	7
Oct-15	393	365	-7	Oct-45	288	365	27	Oct-75	498	365	-27
Nov-15	343	425	24	Nov-45	456	400	-12	Nov-75	358	386	8
Dec-15	190	193	1	Dec-45	396	225	-43	Dec-75	368	197	-46
Jan-16	61	68	11	Jan-46	52	68	30	Jan-76	32	68	112
Feb-16	72	33	-54	Feb-46	15	33	120	Feb-76	16	33	106
Mar-16	56	31	-44	Mar-46	29	31	8	Mar-76	5	31	527
Apr-16	147	121	-18	Apr-46	37	102	176	Apr-76	120	86	-29
May-16	326	285	-13	May-46	239	285	19	May-76	220	285	30
Jun-16	243	273	12	Jun-46	190	273	44	Jun-76	222	273	23
Jul-16	299	252	-16	Jul-46	308	237	-23	Jul-76	88	246	179
Aug-16	278	285	2	Aug-46	223	285	28	Aug-76	201	285	42
Sep-16	272	300	10	Sep-46	341	300	-12	Sep-76	360	300	-17
Oct-16	478	365	-24	Oct-46	272	365	34	Oct-76	337	365	8
Nov-16	371	387	4	Nov-46	307	406	32	Nov-76	196	227	16
Dec-16	130	201	55	Dec-46	264	182	-31	Dec-76	69	150	118
Jan-17	48	68	41	Jan-47	12	68	465	Jan-77	38	68	78
Feb-17	26	33	27	Feb-47	42	33	-21	Feb-77	12	33	175
Mar-17	9	31	248	Mar-47	29	31	8	Mar-77	7	31	348
Apr-17	96	88	-8	Apr-47	71	102	44	Apr-77	28	87	211
May-17	297	285	-4	May-47	164	285	74	May-77	258	285	11
Jun-17	296	273	-8	Jun-47	307	273	-11	Jun-77	191	273	43
Jul-17	336	266	-21	Jul-47	234	269	15	Jul-77	176	237	35
Aug-17	349	285	-18	Aug-47	288	285	-1	Aug-77	378	285	-25
Sep-17	344	300	-13	Sep-47	380	300	-21	Sep-77	265	300	13
Oct-17	313	365	17	Oct-47	415	365	-12	Oct-77	409	365	-11
Nov-17	646	446	-31	Nov-47	246	344	40	Nov-77	324	321	-1
Dec-17	244	280	15	Dec-47	172	165	-4	Dec-77	103	187	82
Jan-18	111	68	-39	Jan-48	49	68	38	Jan-78	45	68	51
Feb-18	15	33	120	Feb-48	5	33	560	Feb-78	30	33	10
Mar-18	26	31	21	Mar-48	13	31	141	Mar-78	62	31	-49
Apr-18	154	100	-35	Apr-48	33	91	176	Apr-78	265	125	-53
May-18	356	285	-20	May-48	295	285	-3	May-78	253	285	13
Jun-18	221	273	24	Jun-48	186	273	47	Jun-78	273	273	0
Jul-18	165	245	49	Jul-48	327	236	-28	Jul-78	308	260	-16
Aug-18	250	285	14	Aug-48	296	285	-4	Aug-78	316	285	-10
Sep-18	297	300	1	Sep-48	252	300	19	Sep-78	248	300	21
Oct-18	439	365	-17	Oct-48	278	365	31	Oct-78	310	365	18
Nov-18	211	284	35	Nov-48	439	436	-1	Nov-78	281	422	50
Dec-18	59	155	162	Dec-48	79	221	179	Dec-78	67	175	161
Jan-19	72	68	-6	Jan-49	18	68	276	Jan-79	9	68	653
Feb-19	22	33	50	Feb-49	9	33	267	Feb-79	25	33	32
Mar-19	19	31	65	Mar-49	13	31	141	Mar-79	7	31	348
Apr-19	249	95	-62	Apr-49	55	91	66	Apr-79	238	87	-63
May-19	208	285	37	May-49	291	285	-2	May-79	246	285	16

GATUN DOWNSTREAM MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jun-19	236	273	16	Jun-49	383	273	-29	Jun-79	282	273	-3
Jul-19	222	250	12	Jul-49	254	291	14	Jul-79	281	262	-7
Aug-19	227	285	25	Aug-49	326	285	-13	Aug-79	287	285	-1
Sep-19	298	300	1	Sep-49	300	300	0	Sep-79	228	300	32
Oct-19	374	365	-2	Oct-49	379	365	-4	Oct-79	283	365	29
Nov-19	265	331	25	Nov-49	544	373	-31	Nov-79	280	399	43
Dec-19	163	170	4	Dec-49	235	251	7	Dec-79	151	175	16
Jan-20	32	68	112	Jan-50	19	68	257	Jan-80	126	68	-46
Feb-20	20	33	65	Feb-50	43	33	-23	Feb-80	55	33	-40
Mar-20	23	31	36	Mar-50	21	31	49	Mar-80	6	31	422
Apr-20	38	98	158	Apr-50	95	97	2	Apr-80	40	86	116
May-20	193	285	48	May-50	261	285	9	May-80	301	285	-5
Jun-20	242	273	13	Jun-50	385	273	-29	Jun-80	264	273	3
Jul-20	360	251	-30	Jul-50	373	291	-22	Jul-80	259	257	-1
Aug-20	274	285	4	Aug-50	280	285	2	Aug-80	287	285	-1
Sep-20	255	300	18	Sep-50	265	300	13	Sep-80	182	300	65
Oct-20	495	365	-26	Oct-50	283	365	29	Oct-80	290	365	26
Nov-20	247	432	75	Nov-50	581	467	-20	Nov-80	306	383	25
Dec-20	54	165	206	Dec-50	418	262	-37	Dec-80	179	182	2
Jan-21	45	68	51	Jan-51	52	68	30	Jan-81	203	68	-67
Feb-21	65	33	-49	Feb-51	114	33	-71	Feb-81	35	33	-6
Mar-21	24	31	31	Mar-51	15	31	109	Mar-81	82	31	-62
Apr-21	106	99	-7	Apr-51	169	93	-45	Apr-81	359	139	-61
May-21	242	285	18	May-51	292	285	-2	May-81	363	285	-21
Jun-21	283	273	-3	Jun-51	176	273	55	Jun-81	345	273	-21
Jul-21	321	263	-18	Jul-51	234	233	0	Jul-81	308	280	-9
Aug-21	383	285	-26	Aug-51	242	285	18	Aug-81	294	285	-3
Sep-21	377	300	-20	Sep-51	287	300	5	Sep-81	175	300	71
Oct-21	345	365	6	Oct-51	355	365	3	Oct-81	320	365	14
Nov-21	310	436	41	Nov-51	333	345	4	Nov-81	497	418	-16
Dec-21	238	183	-23	Dec-51	237	190	-20	Dec-81	342	237	-31
Jan-22	189	68	-64	Jan-52	66	68	3	Jan-82	144	68	-53
Feb-22	40	33	-18	Feb-52	22	33	50	Feb-82	18	33	83
Mar-22	10	31	213	Mar-52	5	31	527	Mar-82	14	31	124
Apr-22	33	89	170	Apr-52	112	86	-23	Apr-82	112	92	-18
May-22	347	285	-18	May-52	301	285	-5	May-82	234	285	22
Jun-22	268	273	2	Jun-52	270	273	1	Jun-82	204	273	34
Jul-22	137	259	89	Jul-52	221	259	17	Jul-82	194	241	24
Aug-22	252	285	13	Aug-52	203	285	40	Aug-82	201	285	42
Sep-22	286	300	5	Sep-52	246	300	22	Sep-82	254	300	18
Oct-22	362	365	1	Oct-52	424	365	-14	Oct-82	390	365	-6
Nov-22	257	273	6	Nov-52	233	322	38	Nov-82	153	304	99
Dec-22	220	168	-24	Dec-52	349	161	-54	Dec-82	30	138	359
Jan-23	52	68	30	Jan-53	164	68	-59	Jan-83	22	68	208
Feb-23	23	33	43	Feb-53	20	33	65	Feb-83	4	33	725
Mar-23	13	31	141	Mar-53	27	31	16	Mar-83	8	31	292
Apr-23	30	91	204	Apr-53	88	101	15	Apr-83	74	88	19
May-23	246	285	16	May-53	297	285	-4	May-83	257	285	11
Jun-23	308	273	-11	Jun-53	170	273	61	Jun-83	241	273	13
Jul-23	185	270	46	Jul-53	270	231	-14	Jul-83	204	251	23

GATUN DOWNSTREAM MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Aug-23	261	285	9	Aug-53	256	285	11	Aug-83	222	285	28
Sep-23	288	300	4	Sep-53	244	300	23	Sep-83	323	300	-7
Oct-23	757	365	-52	Oct-53	411	365	-11	Oct-83	298	365	23
Nov-23	340	265	-22	Nov-53	416	370	-11	Nov-83	321	325	1
Dec-23	77	192	149	Dec-53	141	214	52	Dec-83	259	186	-28
Jan-24	13	68	421	Jan-54	34	68	99	Jan-84	75	68	-10
Feb-24	68	33	-51	Feb-54	31	33	6	Feb-84	69	33	-52
Mar-24	32	31	-2	Mar-54	21	31	49	Mar-84	15	31	109
Apr-24	174	104	-40	Apr-54	125	97	-23	Apr-84	50	93	85
May-24	309	285	-8	May-54	351	285	-19	May-84	252	285	13
Jun-24	340	273	-20	Jun-54	350	273	-22	Jun-84	269	273	2
Jul-24	383	279	-27	Jul-54	404	281	-30	Jul-84	188	259	38
Aug-24	274	285	4	Aug-54	355	285	-20	Aug-84	385	285	-26
Sep-24	341	300	-12	Sep-54	354	300	-15	Sep-84	310	300	-3
Oct-24	313	365	17	Oct-54	300	365	22	Oct-84	410	365	-11
Nov-24	481	468	-3	Nov-54	431	500	16	Nov-84	384	330	-14
Dec-24	171	233	36	Dec-54	174	218	25	Dec-84	47	205	335
Jan-25	87	68	-22	Jan-55	243	68	-72	Jan-85	68	68	0
Feb-25	23	33	43	Feb-55	28	33	18	Feb-85	26	33	27
Mar-25	14	31	124	Mar-55	33	31	-5	Mar-85	22	31	42
Apr-25	95	92	-3	Apr-55	27	105	289	Apr-85	19	97	412
May-25	181	285	58	May-55	292	285	-2	May-85	245	285	16
Jun-25	274	273	0	Jun-55	334	273	-18	Jun-85	303	273	-10
Jul-25	338	260	-23	Jul-55	245	277	13	Jul-85	230	268	17
Aug-25	214	285	33	Aug-55	348	285	-18	Aug-85	246	285	16
Sep-25	333	300	-10	Sep-55	275	300	9	Sep-85	305	300	-2
Oct-25	412	365	-11	Oct-55	292	365	25	Oct-85	245	365	49
Nov-25	371	411	11	Nov-55	485	381	-21	Nov-85	240	355	48
Dec-25	89	201	126	Dec-55	249	234	-6	Dec-85	250	163	-35
Jan-26	18	68	276	Jan-56	186	68	-64	Jan-86	36	68	88
Feb-26	33	33	0	Feb-56	47	33	-30	Feb-86	11	33	200
Mar-26	10	31	213	Mar-56	86	31	-64	Mar-86	37	31	-15
Apr-26	11	89	710	Apr-56	94	141	50	Apr-86	164	108	-34
May-26	209	285	36	May-56	397	285	-28	May-86	171	285	67
Jun-26	407	273	-33	Jun-56	195	273	40	Jun-86	252	273	8
Jul-26	367	297	-19	Jul-56	381	238	-37	Jul-86	160	254	59
Aug-26	358	285	-20	Aug-56	236	285	21	Aug-86	212	285	34
Sep-26	360	300	-17	Sep-56	278	300	8	Sep-86	266	300	13
Oct-26	381	365	-4	Oct-56	439	365	-17	Oct-86	447	365	-18
Nov-26	533	462	-13	Nov-56	328	446	36	Nov-86	204	274	34
Dec-26	284	248	-13	Dec-56	108	188	74	Dec-86	61	153	150
Jan-27	87	68	-22	Jan-57	20	68	239	Jan-87	21	68	223
Feb-27	42	33	-21	Feb-57	11	33	200	Feb-87	36	33	-8
Mar-27	35	31	-10	Mar-57	7	31	348	Mar-87	5	31	527
Apr-27	209	106	-49	Apr-57	10	87	771	Apr-87	224	86	-62
May-27	393	285	-27	May-57	269	285	6	May-87	354	285	-19
Jun-27	385	273	-29	Jun-57	219	273	25	Jun-87	232	273	18
Jul-27	354	291	-18	Jul-57	232	245	-6	Jul-87	270	249	-8
Aug-27	230	285	24	Aug-57	300	285	-5	Aug-87	298	285	-4
Sep-27	298	300	1	Sep-57	277	300	8	Sep-87	444	300	-32

GATUN DOWNSTREAM MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Oct-27	249	365	47	Oct-57	392	365	-7	Oct-87	475	365	-23
Nov-27	366	446	22	Nov-57	314	350	12	Nov-87	295	364	24
Dec-27	233	199	-14	Dec-57	149	184	24	Dec-87	192	179	-7
Jan-28	78	68	-13	Jan-58	111	68	-39	Jan-88	8	68	747
Feb-28	36	33	-8	Feb-58	84	33	-61	Feb-88	32	33	3
Mar-28	97	31	-68	Mar-58	75	31	-58	Mar-88	8	31	292
Apr-28	84	149	77	Apr-58	80	134	67	Apr-88	39	88	125
May-28	270	285	6	May-58	279	285	2	May-88	269	285	6
Jun-28	330	273	-17	Jun-58	244	273	12	Jun-88	263	273	4
Jul-28	240	276	15	Jul-58	273	252	-8	Jul-88	260	257	-1
Aug-28	436	285	-35	Aug-58	256	285	11	Aug-88	313	285	-9
Sep-28	307	300	-2	Sep-58	264	300	14	Sep-88	356	300	-16
Oct-28	390	365	-6	Oct-58	348	365	5	Oct-88	385	365	-5
Nov-28	421	381	-10	Nov-58	202	379	88	Nov-88	311	373	20
Dec-28	195	215	10	Dec-58	134	152	13	Dec-88	164	184	12
Jan-29	13	68	421	Jan-59	17	68	298	Jan-89	21	68	223
Feb-29	24	33	37	Feb-59	3	33	1000	Feb-89	62	33	-47
Mar-29	51	31	-39	Mar-59	6	31	422	Mar-89	25	31	25
Apr-29	51	117	130	Apr-59	66	86	31	Apr-89	22	99	352
May-29	302	285	-6	May-59	210	285	36	May-89	175	285	63
Jun-29	244	273	12	Jun-59	266	273	3	Jun-89	185	273	48
Jul-29	230	252	10	Jul-59	217	258	19	Jul-89	255	235	-8
Aug-29	348	285	-18	Aug-59	245	285	16	Aug-89	284	285	0
Sep-29	233	300	29	Sep-59	314	300	-4	Sep-89	212	300	42
Oct-29	330	365	11	Oct-59	291	365	25	Oct-89	348	365	5
Nov-29	307	366	19	Nov-59	251	340	35	Nov-89	353	372	5
Dec-29	124	182	47	Dec-59	552	166	-70	Dec-89	177	196	11
Jan-30	64	68	6	Jan-60	112	68	-40	Jan-90	50	68	35
Feb-30	28	33	18	Feb-60	19	33	74	Feb-90	6	33	450
Mar-30	12	31	161	Mar-60	112	31	-72	Mar-90	42	31	-25
Apr-30	143	90	-37	Apr-60	252	159	-37	Apr-90	72	111	54
May-30	272	285	5	May-60	327	285	-13	May-90	344	285	-17
Jun-30	182	273	50	Jun-60	303	273	-10	Jun-90	178	273	53
Jul-30	232	235	1	Jul-60	302	268	-11	Jul-90	265	233	-12
Aug-30	239	285	19	Aug-60	243	285	17	Aug-90	259	285	10
Sep-30	268	300	12	Sep-60	249	300	21	Sep-90	395	300	-24
Oct-30	226	365	62	Oct-60	400	365	-9	Oct-90	463	365	-21
Nov-30	249	359	44	Nov-60	374	393	5	Nov-90	288	356	24
Dec-30	134	166	24	Dec-60	465	202	-57	Dec-90	209	177	-15
Jan-31	66	68	3	Jan-61	33	68	105	Jan-91	25	68	171
Feb-31	23	33	43	Feb-61	12	33	175	Feb-91	22	33	50
Mar-31	102	31	-69	Mar-61	17	31	84	Mar-91	91	31	-66
Apr-31	73	152	109	Apr-61	116	94	-19	Apr-91	60	145	141
May-31	316	285	-10	May-61	197	285	45	May-91	354	285	-19
Jun-31	281	273	-3	Jun-61	367	273	-26	Jun-91	240	273	14
Jul-31	364	262	-28	Jul-61	208	286	38	Jul-91	247	251	2
Aug-31	201	285	42	Aug-61	325	285	-12	Aug-91	202	285	41
Sep-31	282	300	6	Sep-61	363	300	-17	Sep-91	347	300	-14
Oct-31	339	365	8	Oct-61	379	365	-4	Oct-91	266	365	37
Nov-31	601	439	-27	Nov-61	299	336	12	Nov-91	354	357	1

GATUN DOWNSTREAM MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Dec-31	92	267	191	Dec-61	181	180	-1	Dec-91	94	196	108
Jan-32	87	68	-22	Jan-62	65	68	4	Jan-92	25	68	171
Feb-32	34	33	-3	Feb-62	24	33	37	Feb-92	11	33	200
Mar-32	27	31	16	Mar-62	18	31	74	Mar-92	9	31	248
Apr-32	168	101	-40	Apr-62	75	95	26	Apr-92	167	88	-47
May-32	287	285	-1	May-62	328	285	-13	May-92	364	285	-22
Jun-32	340	273	-20	Jun-62	231	273	18	Jun-92	311	273	-12
Jul-32	239	279	17	Jul-62	267	248	-7	Jul-92	245	271	10
Aug-32	251	285	13	Aug-62	285	285	0	Aug-92	298	285	-4
Sep-32	185	300	62	Sep-62	300	300	0	Sep-92	342	300	-12
Oct-32	438	365	-17	Oct-62	274	365	33	Oct-92	280	365	30
Nov-32	679	344	-49	Nov-62	328	387	18	Nov-92	274	371	35
Dec-32	209	290	39	Dec-62	301	188	-37	Dec-92	132	173	31
Jan-33	77	68	-12	Jan-63	163	68	-58	Jan-93	90	68	-25
Feb-33	13	33	154	Feb-63	48	33	-31	Feb-93	19	33	74
Mar-33	31	31	1	Mar-63	17	31	84	Mar-93	83	31	-62
Apr-33	40	104	159	Apr-63	144	94	-35	Apr-93	170	139	-18
May-33	240	285	19	May-63	260	285	10	May-93	239	285	19
Jun-33	246	273	11	Jun-63	295	273	-7	Jun-93	322	273	-15
Jul-33	233	252	8	Jul-63	308	266	-14	Jul-93	224	274	22
Aug-33	208	285	37	Aug-63	430	285	-34	Aug-93	213	285	34
Sep-33	281	300	7	Sep-63	317	300	-5	Sep-93	415	300	-28
Oct-33	250	365	46	Oct-63	262	365	39	Oct-93	373	365	-2
Nov-33	627	351	-44	Nov-63	355	446	26	Nov-93	376	327	-13
Dec-33	287	275	-4	Dec-63	105	196	87	Dec-93	161	202	26
Jan-34	56	68	21	Jan-64	21	68	223	Jan-94	52	68	30
Feb-34	12	33	175	Feb-64	12	33	175	Feb-94	9	33	267
Mar-34	31	31	1	Mar-64	19	31	65	Mar-94	54	31	-42
Apr-34	116	104	-11	Apr-64	131	95	-27	Apr-94	41	119	191
May-34	333	285	-14	May-64	314	285	-9	May-94	273	285	4
Jun-34	237	273	15	Jun-64	341	273	-20	Jun-94	307	273	-11
Jul-34	198	250	26	Jul-64	318	279	-12	Jul-94	167	269	61
Aug-34	262	285	9	Aug-64	299	285	-5	Aug-94	269	285	6
Sep-34	376	300	-20	Sep-64	290	300	3	Sep-94	250	300	20
Oct-34	412	365	-11	Oct-64	374	365	-2	Oct-94	333	365	10
Nov-34	404	313	-23	Nov-64	410	417	2	Nov-94	404	303	-25
Dec-34	317	210	-34	Dec-64	122	212	74	Dec-94	46	210	357
Jan-35	100	68	-32	Jan-65	114	68	-41	Jan-95	115	68	-41
Feb-35	80	33	-59	Feb-65	16	33	106	Feb-95	17	33	94
Mar-35	23	31	36	Mar-65	17	31	84	Mar-95	20	31	57
Apr-35	88	98	11	Apr-65	39	94	141	Apr-95	131	96	-27
May-35	318	285	-10	May-65	272	285	5	May-95	330	285	-14
Jun-35	306	273	-11	Jun-65	203	273	35	Jun-95	348	273	-21
Jul-35	537	269	-50	Jul-65	186	240	29	Jul-95	320	281	-12
Aug-35	302	285	-6	Aug-65	278	285	2	Aug-95	296	285	-4
Sep-35	328	300	-9	Sep-65	288	300	4	Sep-95	259	300	16
Oct-35	302	365	21	Oct-65	471	365	-22	Oct-95	312	365	17
Nov-35	874	592	-32	Nov-65	574	302	-47	Nov-95	389	426	10
Dec-35	343	346	1	Dec-65	134	260	94	Dec-95	258	206	-20
Jan-36	29	68	134	Jan-66	66	68	3	Jan-96	339	99	-71

GATUN DOWNSTREAM MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Feb-36	14	33	136	Feb-66	26	33	27	Feb-96	89	23	-75
Mar-36	28	31	12	Mar-66	28	31	12	Mar-96	93	42	-55
Apr-36	96	101	6	Apr-66	116	101	-13	Apr-96	75	146	95
May-36	379	285	-25	May-66	302	285	-6	May-96	325	198	-39
Jun-36	187	273	46	Jun-66	265	273	3	Jun-96	301	248	-18
Jul-36	268	236	-12	Jul-66	308	258	-16	Jul-96	223	257	15
Aug-36	290	285	-2	Aug-66	348	285	-18	Aug-96	262	274	5
Sep-36	337	300	-11	Sep-66	331	300	-9	Sep-96	295	368	25
Oct-36	417	365	-12	Oct-66	297	365	23	Oct-96	317	372	17
Nov-36	312	371	19	Nov-66	575	426	-26	Nov-96	416	217	-48
Dec-36	87	184	111	Dec-66	372	260	-30	Dec-96	127	253	99
Jan-37	93	68	-27	Jan-67	48	68	41	Jan-97	24	47	95
Feb-37	18	33	83	Feb-67	22	33	50	Feb-97	22	65	196
Mar-37	20	31	57	Mar-67	30	31	4	Mar-97	3	19	529
Apr-37	101	96	-5	Apr-67	134	103	-23	Apr-97	28	76	172
May-37	332	285	-14	May-67	228	285	25	May-97	237	243	3
Jun-37	233	273	17	Jun-67	352	273	-22	Jun-97	225	296	31
Jul-37	248	249	0	Jul-67	301	282	-6	Jul-97	178	183	3
Aug-37	286	285	0	Aug-67	271	285	5	Aug-97	164	189	16
Sep-37	390	300	-23	Sep-67	265	300	13	Sep-97	242	202	-17
Oct-37	359	365	2	Oct-67	339	365	8	Oct-97	210	374	78
Nov-37	401	361	-10	Nov-67	390	404	4	Nov-97	223	505	127
Dec-37	628	210	-67	Dec-67	100	206	106	Dec-97	35	279	697
Jan-38	41	68	65	Jan-68	5	68	1255	Jan-98	12	36	200
Feb-38	20	33	65	Feb-68	86	33	-62	Feb-98	19	58	204
Mar-38	22	31	42	Mar-68	55	31	-43	Mar-98	28	16	-42
Apr-38	87	97	12	Apr-68	30	120	300	Apr-98	187	113	-40
May-38	423	285	-33	May-68	293	285	-3	May-98	270	332	23
Jun-38	456	273	-40	Jun-68	308	273	-11	Jun-98	304	222	-27
Jul-38	277	311	12	Jul-68	197	270	37	Jul-98	281	290	3
Aug-38	389	285	-27	Aug-68	340	285	-16	Aug-98	276	367	33
Sep-38	302	300	-1	Sep-68	259	300	16	Sep-98	247	257	4
Oct-38	376	365	-3	Oct-68	394	365	-7	Oct-98	282	372	32
Nov-38	391	402	3	Nov-68	314	331	6	Nov-98	271	359	33
Dec-38	402	207	-49	Dec-68	.56	184	229	Dec-98	351	145	-59
Jan-39	22	68	208	Jan-69	56	68	21	Jan-99	72	58	-20
Feb-39	5	33	560	Feb-69	19	33	74	Feb-99	66	41	-38
Mar-39	25	31	25	Mar-69	22	31	42	Mar-99	94	57	-39
Apr-39	39	99	155	Apr-69	106	97	-8	Apr-99	154	109	-29
May-39	158	285	81	May-69	270	285	6	May-99	215	366	70
Jun-39	256	273	7	Jun-69	184	273	48	Jun-99	353	231	-34
Jul-39	144	255	77	Jul-69	277	235	-15	Jul-99	226	332	47
Aug-39	229	285	24	Aug-69	340	285	-16	Aug-99	412	225	-45
Sep-39	343	300	-13	Sep-69	356	300	-16	Sep-99	328	287	-13
Oct-39	322	365	13	Oct-69	342	365	7	Oct-99	275	444	62
Nov-39	581	277	-52	Nov-69	349	396	13	Nov-99	445	347	-22
Dec-39	264	262	-1	Dec-69	256	195	-24	Dec-99	529	390	-26
Jan-40	68	68	0	Jan-70	227	68	-70	Jan-00	123	68	-45
Feb-40	40	33	-18	Feb-70	58	33	-43	Feb-00	21	63	200
Mar-40	28	31	12	Mar-70	65	31	-52	Mar-00	9	39	338

GATUN DOWNSTREAM MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Apr-40	33	101	207	Apr-70	181	127	-30	Apr-00	97	121	24
May-40	233	285	22	May-70	327	285	-13	May-00	271	253	-7
Jun-40	207	273	32	Jun-70	218	273	25	Jun-00	371	269	-27
Jul-40	186	242	30	Jul-70	306	245	-20	Jul-00	208	313	50
Aug-40	284	285	0	Aug-70	313	285	-9	Aug-00	292	214	-27
Sep-40	266	300	13	Sep-70	257	300	17	Sep-00	222	287	29
Oct-40	347	365	5	Oct-70	321	365	14	Oct-00	436	375	-14
Nov-40	279	318	14	Nov-70	500	418	-16	Nov-00	214	286	34
Dec-40	57	174	206	Dec-70	418	238	-43	Dec-00	391	231	-41

Note: The numbers in Italic face for the period Jan-96 to Dec-00 are verification rainfalls.

GATUN TOTAL MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jan-11	47	82	74	Jan-41	77	82	6	Jan-71	123	82	-34
Feb-11	53	37	-29	Feb-41	96	37	-61	Feb-71	45	37	-17
Mar-11	38	34	-11	Mar-41	49	34	-31	Mar-71	83	34	-59
Apr-11	145	108	-25	Apr-41	64	108	69	Apr-71	16	108	578
May-11	435	298	-31	May-41	254	289	14	May-71	365	305	-16
Jun-11	267	288	8	Jun-41	305	288	-6	Jun-71	301	288	-4
Jul-11	163	280	72	Jul-41	281	280	0	Jul-71	307	280	-9
Aug-11	190	291	53	Aug-41	336	291	-13	Aug-71	330	291	-12
Sep-11	257	305	19	Sep-41	325	305	-6	Sep-71	288	305	6
Oct-11	477	364	-24	Oct-41	467	364	-22	Oct-71	323	364	13
Nov-11	295	248	-16	Nov-41	339	366	8	Nov-71	316	399	26
Dec-11	48	194	303	Dec-41	116	205	77	Dec-71	36	199	453
Jan-12	31	82	164	Jan-42	50	82	63	Jan-72	207	82	-61
Feb-12	44	37	-15	Feb-42	27	37	39	Feb-72	41	37	-9
Mar-12	15	34	125	Mar-42	77	34	-56	Mar-72	28	34	21
Apr-12	69	108	57	Apr-42	120	108	-10	Apr-72	224	108	-52
May-12	258	264	2	May-42	310	323	4	May-72	243	308	27
Jun-12	269	288	7	Jun-42	297	288	-3	Jun-72	309	288	-7
Jul-12	253	280	11	Jul-42	233	280	20	Jul-72	145	280	93
Aug-12	280	291	4	Aug-42	288	291	1	Aug-72	200	291	46
Sep-12	304	305	0	Sep-42	342	305	-11	Sep-72	312	305	-2
Oct-12	444	364	-18	Oct-42	480	364	-24	Oct-72	344	364	6
Nov-12	398	336	-16	Nov-42	209	322	54	Nov-72	220	259	18
Dec-12	187	221	18	Dec-42	394	171	-57	Dec-72	115	174	51
Jan-13	75	82	9	Jan-43	82	82	0	Jan-73	55	82	49
Feb-13	37	37	1	Feb-43	55	37	-32	Feb-73	19	37	97
Mar-13	11	34	207	Mar-43	56	34	-40	Mar-73	5	34	576
Apr-13	56	108	94	Apr-43	134	108	-19	Apr-73	31	108	250
May-13	386	258	-33	May-43	376	310	-18	May-73	255	248	-3
Jun-13	280	288	3	Jun-43	356	288	-19	Jun-73	287	288	0
Jul-13	244	280	15	Jul-43	241	280	16	Jul-73	278	280	1
Aug-13	349	291	-17	Aug-43	291	291	0	Aug-73	246	291	18
Sep-13	347	305	-12	Sep-43	353	305	-13	Sep-73	307	305	-1
Oct-13	285	364	28	Oct-43	292	364	25	Oct-73	366	364	0
Nov-13	338	371	10	Nov-43	346	352	2	Nov-73	478	352	-26
Dec-13	159	205	29	Dec-43	416	207	-50	Dec-73	148	242	64
Jan-14	26	82	214	Jan-44	60	82	36	Jan-74	16	82	411
Feb-14	20	37	87	Feb-44	32	37	17	Feb-74	65	37	-42
Mar-14	27	34	25	Mar-44	22	34	54	Mar-74	27	34	25
Apr-14	67	108	62	Apr-44	192	108	-44	Apr-74	43	108	152
May-14	274	273	0	May-44	345	296	-14	May-74	188	267	42
Jun-14	339	288	-15	Jun-44	259	288	11	Jun-74	316	288	-9
Jul-14	125	280	124	Jul-44	242	280	16	Jul-74	288	280	-3
Aug-14	299	291	-3	Aug-44	423	291	-31	Aug-74	218	291	34
Sep-14	440	305	-31	Sep-44	243	305	26	Sep-74	295	305	4
Oct-14	390	364	-7	Oct-44	456	364	-20	Oct-74	448	364	-19
Nov-14	400	271	-32	Nov-44	307	366	19	Nov-74	376	339	-10
Dec-14	160	222	39	Dec-44	356	197	-45	Dec-74	98	215	120
Jan-15	47	82	74	Jan-45	43	82	90	Jan-75	21	82	289
Feb-15	159	37	-76	Feb-45	11	37	240	Feb-75	25	37	50
Mar-15	42	34	-20	Mar-45	15	34	125	Mar-75	39	34	-13

GATUN TOTAL MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Apr-15	326	108	-67	Apr-45	89	108	22	Apr-75	31	108	250
May-15	228	341	49	May-45	309	268	-13	May-75	320	274	-14
Jun-15	346	288	-17	Jun-45	255	288	13	Jun-75	306	288	-6
Jul-15	395	280	-29	Jul-45	323	280	-13	Jul-75	320	280	-13
Aug-15	263	291	11	Aug-45	365	291	-20	Aug-75	350	291	-17
Sep-15	285	305	7	Sep-45	254	305	20	Sep-75	287	305	6
Oct-15	388	364	-6	Oct-45	273	364	33	Oct-75	517	364	-30
Nov-15	380	426	12	Nov-45	413	425	3	Nov-75	357	387	8
Dec-15	201	216	8	Dec-45	349	225	-36	Dec-75	359	210	-41
Jan-16	56	82	46	Jan-46	41	82	99	Jan-76	35	82	133
Feb-16	72	37	-48	Feb-46	14	37	167	Feb-76	20	37	87
Mar-16	44	34	-23	Mar-46	26	34	30	Mar-76	15	34	125
Apr-16	190	108	-43	Apr-46	36	108	201	Apr-76	121	108	-10
May-16	314	313	0	May-46	273	265	-3	May-76	215	275	28
Jun-16	251	288	15	Jun-46	232	288	24	Jun-76	215	288	34
Jul-16	335	280	-17	Jul-46	345	280	-19	Jul-76	84	280	233
Aug-16	273	291	7	Aug-46	215	291	35	Aug-76	211	291	38
Sep-16	280	305	9	Sep-46	352	305	-13	Sep-76	349	305	-12
Oct-16	468	364	-22	Oct-46	269	364	35	Oct-76	313	364	16
Nov-16	351	381	9	Nov-46	280	399	42	Nov-76	202	229	13
Dec-16	122	209	71	Dec-46	263	190	-28	Dec-76	58	169	191
Jan-17	34	82	140	Jan-47	11	82	643	Jan-77	51	82	60
Feb-17	19	37	97	Feb-47	39	37	-4	Feb-77	12	37	212
Mar-17	11	34	207	Mar-47	25	34	35	Mar-77	12	34	182
Apr-17	83	108	31	Apr-47	74	108	47	Apr-77	32	108	239
May-17	304	264	-13	May-47	151	273	81	May-77	251	253	1
Jun-17	297	288	-3	Jun-47	311	288	-7	Jun-77	200	288	44
Jul-17	367	280	-24	Jul-47	228	280	23	Jul-77	180	280	55
Aug-17	360	291	-19	Aug-47	298	291	-2	Aug-77	376	291	-23
Sep-17	334	305	-9	Sep-47	340	305	-10	Sep-77	273	305	12
Oct-17	297	364	23	Oct-47	371	364	-2	Oct-77	421	364	-13
Nov-17	611	450	-26	Nov-47	243	336	38	Nov-77	311	319	3
Dec-17	227	278	22	Dec-47	193	180	-7	Dec-77	109	198	82
Jan-18	109	82	-25	Jan-48	43	82	90	Jan-78	41	82	99
Feb-18	23	37	63	Feb-48	6	37	524	Feb-78	39	37	-4
Mar-18	31	34	9	Mar-48	12	34	182	Mar-78	63	34	-46
Apr-18	163	108	-33	Apr-48	33	108	229	Apr-78	269	108	-60
May-18	373	297	-20	May-48	269	254	-6	May-78	298	345	16
Jun-18	277	288	4	Jun-48	210	288	37	Jun-78	295	288	-2
Jul-18	213	280	31	Jul-48	356	280	-21	Jul-78	315	280	-11
Aug-18	245	291	19	Aug-48	278	291	5	Aug-78	321	291	-9
Sep-18	301	305	1	Sep-48	248	305	23	Sep-78	263	305	16
Oct-18	414	364	-12	Oct-48	280	364	30	Oct-78	310	364	18
Nov-18	218	305	40	Nov-48	417	419	1	Nov-78	305	402	32
Dec-18	51	173	240	Dec-48	83	226	172	Dec-78	78	196	152
Jan-19	81	82	1	Jan-49	15	82	445	Jan-79	9	82	808
Feb-19	27	37	39	Feb-49	10	37	274	Feb-79	26	37	44
Mar-19	19	34	78	Mar-49	13	34	160	Mar-79	14	34	141
Apr-19	277	108	-61	Apr-49	58	108	87	Apr-79	239	108	-55
May-19	205	312	52	May-49	277	260	-6	May-79	229	300	31

GATUN TOTAL MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jun-19	231	288	25	Jun-49	416	288	-31	Jun-79	266	288	8
Jul-19	232	280	21	Jul-49	289	280	-3	Jul-79	311	280	-10
Aug-19	255	291	14	Aug-49	326	291	-11	Aug-79	277	291	5
Sep-19	338	305	-10	Sep-49	307	305	-1	Sep-79	218	305	40
Oct-19	362	364	1	Oct-49	375	364	-3	Oct-79	291	364	25
Nov-19	264	327	24	Nov-49	494	380	-23	Nov-79	318	389	22
Dec-19	174	185	7	Dec-49	198	247	25	Dec-79	206	200	-3
Jan-20	38	82	115	Jan-50	19	82	330	Jan-80	124	82	-34
Feb-20	21	37	78	Feb-50	42	37	-11	Feb-80	67	37	-44
Mar-20	31	34	9	Mar-50	18	34	88	Mar-80	12	34	182
Apr-20	58	108	87	Apr-50	108	108	0	Apr-80	44	108	147
May-20	214	274	28	May-50	281	275	-2	May-80	287	256	-11
Jun-20	262	288	10	Jun-50	381	288	-24	Jun-80	287	288	0
Jul-20	401	280	-30	Jul-50	423	280	-34	Jul-80	242	280	16
Aug-20	292	291	0	Aug-50	313	291	-7	Aug-80	298	291	-2
Sep-20	259	305	18	Sep-50	265	305	15	Sep-80	195	305	57
Oct-20	480	364	-24	Oct-50	255	364	43	Oct-80	294	364	24
Nov-20	261	426	63	Nov-50	513	475	-7	Nov-80	315	351	11
Dec-20	55	185	236	Dec-50	400	252	-37	Dec-80	197	199	1
Jan-21	41	82	99	Jan-51	47	82	74	Jan-81	195	82	-58
Feb-21	68	37	-45	Feb-51	129	37	-71	Feb-81	41	37	-9
Mar-21	25	34	35	Mar-51	15	34	125	Mar-81	78	34	-57
Apr-21	137	108	-21	Apr-51	167	108	-35	Apr-81	439	108	-75
May-21	257	286	11	May-51	303	285	-6	May-81	346	393	14
Jun-21	304	288	-5	Jun-51	189	288	52	Jun-81	348	288	-17
Jul-21	342	280	-18	Jul-51	242	280	16	Jul-81	325	280	-14
Aug-21	410	291	-29	Aug-51	285	291	2	Aug-81	296	291	-2
Sep-21	401	305	-24	Sep-51	310	305	-1	Sep-81	185	305	65
Oct-21	392	364	-7	Oct-51	358	364	2	Oct-81	303	364	20
Nov-21	301	437	45	Nov-51	311	342	10	Nov-81	438	401	-9
Dec-21	248	195	-21	Dec-51	213	198	-7	Dec-81	330	232	-30
Jan-22	183	82	-55	Jan-52	58	82	41	Jan-82	125	82	-35
Feb-22	43	37	-13	Feb-52	18	37	108	Feb-82	18	37	108
Mar-22	17	34	99	Mar-52	4	34	745	Mar-82	13	34	160
Apr-22	52	108	109	Apr-52	113	108	-4	Apr-82	109	108	0
May-22	363	262	-28	May-52	311	265	-15	May-82	223	271	22
Jun-22	292	288	-1	Jun-52	283	288	2	Jun-82	224	288	29
Jul-22	133	280	110	Jul-52	274	280	2	Jul-82	233	280	20
Aug-22	243	291	20	Aug-52	255	291	14	Aug-82	197	291	48
Sep-22	280	305	9	Sep-52	304	305	0	Sep-82	255	305	20
Oct-22	357	364	2	Oct-52	454	364	-20	Oct-82	402	364	-9
Nov-22	284	261	-8	Nov-52	234	340	45	Nov-82	148	304	105
Dec-22	245	191	-22	Dec-52	375	177	-53	Dec-82	38	155	307
Jan-23	51	82	60	Jan-53	187	82	-56	Jan-83	24	82	240
Feb-23	27	37	39	Feb-53	27	37	39	Feb-83	10	37	274
Mar-23	13	34	160	Mar-53	37	34	-9	Mar-83	14	34	141
Apr-23	35	108	210	Apr-53	94	108	15	Apr-83	101	108	7
May-23	242	255	5	May-53	333	286	-14	May-83	273	270	-1
Jun-23	319	288	-10	Jun-53	168	288	71	Jun-83	240	288	20
Jul-23	205	280	36	Jul-53	279	280	0	Jul-83	195	280	43

GATUN TOTAL MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Aug-23	250	291	16	Aug-53	251	291	16	Aug-83	224	291	30
Sep-23	302	305	1	Sep-53	230	305	33	Sep-83	350	305	-13
Oct-23	727	364	-50	Oct-53	401	364	-9	Oct-83	353	364	3
Nov-23	321	260	-19	Nov-53	400	347	-13	Nov-83	329	297	-10
Dec-23	96	201	109	Dec-53	161	222	38	Dec-83	328	203	-38
Jan-24	22	82	271	Jan-54	33	82	148	Jan-84	66	82	24
Feb-24	68	37	-45	Feb-54	43	37	-13	Feb-84	66	37	-43
Mar-24	27	34	25	Mar-54	24	34	41	Mar-84	13	34	160
Apr-24	181	108	-40	Apr-54	110	108	-1	Apr-84	41	108	165
May-24	326	297	-9	May-54	364	280	-23	May-84	236	256	9
Jun-24	323	288	-11	Jun-54	361	288	-20	Jun-84	287	288	0
Jul-24	421	280	-34	Jul-54	411	280	-32	Jul-84	224	280	25
Aug-24	318	291	-8	Aug-54	353	291	-18	Aug-84	411	291	-29
Sep-24	366	305	-17	Sep-54	363	305	-16	Sep-84	285	305	7
Oct-24	284	364	28	Oct-54	303	364	20	Oct-84	401	364	-9
Nov-24	409	474	16	Nov-54	440	475	8	Nov-84	364	360	-1
Dec-24	145	224	54	Dec-54	200	232	16	Dec-84	59	212	259
Jan-25	90	82	-9	Jan-55	250	82	-67	Jan-85	66	82	24
Feb-25	24	37	56	Feb-55	28	37	34	Feb-85	27	37	39
Mar-25	12	34	182	Mar-55	46	34	-27	Mar-85	36	34	-6
Apr-25	110	108	-1	Apr-55	25	108	334	Apr-85	29	108	274
May-25	188	270	44	May-55	257	278	8	May-85	232	271	17
Jun-25	333	288	-14	Jun-55	322	288	-11	Jun-85	323	288	-11
Jul-25	349	280	-20	Jul-55	276	280	1	Jul-85	246	280	14
Aug-25	228	291	28	Aug-55	385	291	-24	Aug-85	234	291	24
Sep-25	320	305	-5	Sep-55	269	305	14	Sep-85	329	305	-7
Oct-25	427	364	-15	Oct-55	277	364	32	Oct-85	256	364	42
Nov-25	338	384	13	Nov-55	523	401	-23	Nov-85	229	343	50
Dec-25	112	205	83	Dec-55	241	254	6	Dec-85	273	176	-36
Jan-26	16	82	411	Jan-56	202	82	-60	Jan-86	44	82	86
Feb-26	34	37	10	Feb-56	59	37	-37	Feb-86	11	37	240
Mar-26	19	34	78	Mar-56	92	34	-63	Mar-86	40	34	-16
Apr-26	39	108	178	Apr-56	106	108	2	Apr-86	190	108	-43
May-26	226	260	15	May-56	418	332	-21	May-86	210	310	47
Jun-26	428	288	-33	Jun-56	230	288	25	Jun-86	277	288	4
Jul-26	377	280	-26	Jul-56	399	280	-30	Jul-86	156	280	79
Aug-26	362	291	-20	Aug-56	259	291	12	Aug-86	216	291	35
Sep-26	359	305	-15	Sep-56	278	305	10	Sep-86	289	305	6
Oct-26	378	364	-4	Oct-56	410	364	-11	Oct-86	461	364	-21
Nov-26	481	446	-7	Nov-56	361	425	18	Nov-86	232	254	10
Dec-26	304	243	-20	Dec-56	125	211	69	Dec-86	64	177	176
Jan-27	85	82	-4	Jan-57	22	82	271	Jan-87	28	82	192
Feb-27	65	37	-42	Feb-57	18	37	108	Feb-87	42	37	-11
Mar-27	50	34	-32	Mar-57	7	34	383	Mar-87	7	34	383
Apr-27	218	108	-50	Apr-57	14	108	675	Apr-87	283	108	-62
May-27	417	323	-22	May-57	259	246	-5	May-87	403	304	-25
Jun-27	375	288	-23	Jun-57	211	288	36	Jun-87	256	288	12
Jul-27	434	280	-36	Jul-57	212	280	32	Jul-87	317	280	-12
Aug-27	228	291	28	Aug-57	267	291	9	Aug-87	317	291	-8
Sep-27	307	305	-1	Sep-57	252	305	21	Sep-87	435	305	-30

GATUN TOTAL MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Oct-27	249	364	46	Oct-57	391	364	-7	Oct-87	466	364	-22
Nov-27	382	460	20	Nov-57	345	312	-10	Nov-87	357	387	8
Dec-27	314	217	-31	Dec-57	151	207	37	Dec-87	189	210	11
Jan-28	79	82	3	Jan-58	115	82	-29	Jan-88	12	82	581
Feb-28	34	37	10	Feb-58	75	37	-50	Feb-88	58	37	-35
Mar-28	104	34	-68	Mar-58	72	34	-53	Mar-88	19	34	78
Apr-28	74	108	47	Apr-58	67	108	62	Apr-88	45	108	141
May-28	258	334	30	May-58	282	308	9	May-88	309	262	-15
Jun-28	334	288	-14	Jun-58	273	288	5	Jun-88	280	288	3
Jul-28	266	280	5	Jul-58	303	280	-8	Jul-88	342	280	-18
Aug-28	419	291	-30	Aug-58	262	291	11	Aug-88	355	291	-18
Sep-28	308	305	-1	Sep-58	278	305	10	Sep-88	356	305	-14
Oct-28	401	364	-9	Oct-58	316	364	15	Oct-88	426	364	-14
Nov-28	430	389	-10	Nov-58	239	378	58	Nov-88	315	416	32
Dec-28	203	230	13	Dec-58	129	179	39	Dec-88	153	199	30
Jan-29	11	82	643	Jan-59	18	82	354	Jan-89	34	82	140
Feb-29	32	37	17	Feb-59	5	37	649	Feb-89	82	37	-54
Mar-29	50	34	-32	Mar-59	6	34	463	Mar-89	23	34	47
Apr-29	50	108	117	Apr-59	72	108	51	Apr-89	25	108	334
May-29	287	287	0	May-59	204	257	26	May-89	178	260	46
Jun-29	272	288	6	Jun-59	298	288	-3	Jun-89	216	288	33
Jul-29	262	280	7	Jul-59	222	280	26	Jul-89	304	280	-8
Aug-29	357	291	-18	Aug-59	271	291	7	Aug-89	304	291	-4
Sep-29	244	305	25	Sep-59	345	305	-11	Sep-89	220	305	39
Oct-29	332	364	10	Oct-59	312	364	17	Oct-89	356	364	2
Nov-29	307	376	23	Nov-59	268	332	24	Nov-89	367	384	5
Dec-29	126	197	56	Dec-59	523	186	-64	Dec-89	188	213	13
Jan-30	69	82	18	Jan-60	112	82	-27	Jan-90	59	82	38
Feb-30	27	37	39	Feb-60	20	37	87	Feb-90	8	37	368
Mar-30	21	34	61	Mar-60	95	34	-64	Mar-90	45	34	-25
Apr-30	162	108	-33	Apr-60	250	108	-57	Apr-90	64	108	69
May-30	294	289	-2	May-60	368	365	-1	May-90	339	286	-16
Jun-30	181	288	59	Jun-60	292	288	-1	Jun-90	170	288	69
Jul-30	258	280	8	Jul-60	323	280	-13	Jul-90	269	280	4
Aug-30	217	291	34	Aug-60	266	291	9	Aug-90	288	291	1
Sep-30	283	305	8	Sep-60	255	305	20	Sep-90	383	305	-20
Oct-30	225	364	62	Oct-60	382	364	-5	Oct-90	494	364	-26
Nov-30	240	349	45	Nov-60	353	382	8	Nov-90	287	343	20
Dec-30	122	179	47	Dec-60	491	209	-57	Dec-90	212	192	-10
Jan-31	70	82	17	Jan-61	32	82	155	Jan-91	26	82	214
Feb-31	27	37	39	Feb-61	10	37	274	Feb-91	30	37	25
Mar-31	116	34	-71	Mar-61	17	34	99	Mar-91	85	34	-60
Apr-31	63	108	72	Apr-61	129	108	-16	Apr-91	78	108	39
May-31	371	341	-8	May-61	212	278	31	May-91	357	320	-10
Jun-31	304	288	-5	Jun-61	412	288	-30	Jun-91	246	288	17
Jul-31	343	280	-18	Jul-61	219	280	28	Jul-91	259	280	8
Aug-31	215	291	35	Aug-61	324	291	-10	Aug-91	216	291	35
Sep-31	314	305	-3	Sep-61	361	305	-15	Sep-91	362	305	-16
Oct-31	368	364	-1	Oct-61	368	364	-1	Oct-91	278	364	31
Nov-31	668	384	-43	Nov-61	281	338	20	Nov-91	380	345	-9

GATUN TOTAL MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Dec-31	141	293	108	Dec-61	174	190	9	Dec-91	94	216	130
Jan-32	88	82	-7	Jan-62	63	82	30	Jan-92	28	82	192
Feb-32	26	37	44	Feb-62	18	37	108	Feb-92	14	37	167
Mar-32	31	34	9	Mar-62	5	34	576	Mar-92	14	34	141
Apr-32	166	108	-35	Apr-62	6	108	1708	Apr-92	169	108	-36
May-32	294	297	1	May-62	72	242	237	May-92	413	285	-31
Jun-32	320	288	-10	Jun-62	204	288	41	Jun-92	340	288	-15
Jul-32	227	280	23	22828	298	280	-6	Jul-92	262	280	7
Aug-32	275	291	6	Aug-62	222	291	31	Aug-92	338	291	-14
Sep-32	222	305	38	Sep-62	271	305	13	Sep-92	330	305	-7
Oct-32	477	364	-24	Oct-62	345	364	6	Oct-92	295	364	23
Nov-32	670	311	-54	Nov-62	312	359	15	Nov-92	274	378	38
Dec-32	219	293	34	Dec-62	268	198	-26	Dec-92	140	188	34
Jan-33	92	82	-11	Jan-63	523	82	-84	Jan-93	92	82	-11
Feb-33	15	37	150	Feb-63	112	37	-67	Feb-93	18	37	108
Mar-33	39	34	-13	Mar-63	20	34	69	Mar-93	112	34	-70
Apr-33	53	108	105	Apr-63	95	108	14	Apr-93	200	108	-46
May-33	280	279	0	May-63	250	273	9	May-93	262	368	40
Jun-33	270	288	7	Jun-63	368	288	-22	Jun-93	395	288	-27
Jul-33	293	280	-5	Jul-63	292	280	-4	Jul-93	223	280	25
Aug-33	237	291	23	Aug-63	323	291	-10	Aug-93	208	291	40
Sep-33	290	305	5	Sep-63	266	305	15	Sep-93	421	305	-27
Oct-33	228	364	60	Oct-63	255	364	43	Oct-93	390	364	-7
Nov-33	578	376	-35	Nov-63	382	396	4	Nov-93	342	307	-10
Dec-33	273	269	-1	Dec-63	353	217	-39	Dec-93	157	206	31
Jan-34	50	82	63	Jan-64	491	82	-83	Jan-94	48	82	70
Feb-34	10	37	274	Feb-64	32	37	17	Feb-94	17	37	120
Mar-34	30	34	13	Mar-64	10	34	238	Mar-94	64	34	-47
Apr-34	105	108	3	Apr-64	17	108	538	Apr-94	42	108	158
May-34	359	283	-21	May-64	129	249	93	May-94	317	296	-7
Jun-34	242	288	19	Jun-64	212	288	36	Jun-94	337	288	-15
Jul-34	231	280	21	Jul-64	412	280	-32	Jul-94	194	280	44
Aug-34	260	291	12	Aug-64	219	291	33	Aug-94	294	291	-1
Sep-34	356	305	-14	Sep-64	324	305	-6	Sep-94	251	305	22
Oct-34	406	364	-10	Oct-64	361	364	1	Oct-94	343	364	6
Nov-34	414	322	-22	Nov-64	368	429	17	Nov-94	437	314	-28
Dec-34	284	225	-21	Dec-64	281	213	-24	Dec-94	60	231	286
Jan-35	93	82	-12	Jan-65	174	82	-53	Jan-95	109	82	-25
Feb-35	76	37	-51	Feb-65	63	37	-41	Feb-95	16	37	134
Mar-35	23	34	47	Mar-65	21	34	61	Mar-95	29	34	16
Apr-35	81	108	34	Apr-65	21	108	417	Apr-95	123	108	-12
May-35	342	273	-20	May-65	87	258	197	May-95	322	286	-11
Jun-35	318	288	-9	Jun-65	338	288	-15	Jun-95	388	288	-26
Jul-35	553	280	-49	Jul-65	227	280	23	Jul-95	350	280	-20
Aug-35	335	291	-13	Aug-65	275	291	6	Aug-95	322	291	-10
Sep-35	320	305	-5	Sep-65	302	305	1	Sep-95	267	305	14
Oct-35	310	364	18	Oct-65	291	364	25	Oct-95	307	364	19
Nov-35	943	557	-41	Nov-65	303	338	12	Nov-95	382	425	11
Dec-35	360	366	2	Dec-65	323	196	-39	Dec-95	285	217	-24
Jan-36	40	82	104	Jan-66	282	82	-71	Jan-96	353	136	-62

GATUN TOTAL MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Feb-36	15	37	150	Feb-66	25	37	50	Feb-96	101	26	-74
Mar-36	22	34	54	Mar-66	31	34	9	Mar-96	98	45	-54
Apr-36	92	108	18	Apr-66	168	108	-35	Apr-96	114	189	66
May-36	393	274	-30	May-66	327	298	-9	May-96	365	287	-21
Jun-36	190	288	52	Jun-66	264	288	9	Jun-96	330	220	-33
Jul-36	281	280	0	Jul-66	313	280	-11	Jul-96	231	247	7
Aug-36	296	291	-2	Aug-66	347	291	-16	Aug-96	294	282	-4
Sep-36	347	305	-12	Sep-66	349	305	-12	Sep-96	299	296	-1
Oct-36	405	364	-10	Oct-66	334	364	9	Oct-96	320	465	45
Nov-36	324	364	12	Nov-66	577	408	-29	Nov-96	453	351	-22
Dec-36	83	201	143	Dec-66	395	269	-32	Dec-96	188	287	53
Jan-37	112	82	-27	Jan-67	49	82	67	Jan-97	26	46	77
Feb-37	21	37	78	Feb-67	25	37	50	Feb-97	33	73	121
Mar-37	21	34	61	Mar-67	38	34	-11	Mar-97	7	21	199
Apr-37	89	108	22	Apr-67	168	108	-35	Apr-97	45	99	120
May-37	324	273	-16	May-67	240	303	26	May-97	257	298	16
Jun-37	250	288	15	Jun-67	406	288	-29	Jun-97	240	311	30
Jul-37	276	280	1	Jul-67	329	280	-15	Jul-97	170	207	22
Aug-37	286	291	2	Aug-67	278	291	5	Aug-97	158	196	24
Sep-37	386	305	-21	Sep-67	285	305	7	Sep-97	250	211	-16
Oct-37	367	364	-1	Oct-67	347	364	5	Oct-97	226	373	65
Nov-37	433	364	-16	Nov-67	401	395	-2	Nov-97	238	467	96
Dec-37	590	230	-61	Dec-67	140	222	58	Dec-97	34	255	650
Jan-38	40	82	104	Jan-68	6	82	1262	Jan-98	18	96	434
Feb-38	29	37	29	Feb-68	80	37	-53	Feb-98	21	33	55
Mar-38	24	34	41	Mar-68	61	34	-45	Mar-98	29	42	43
Apr-38	124	108	-13	Apr-68	35	108	210	Apr-98	176	115	-35
May-38	497	283	-43	May-68	310	292	-6	May-98	312	263	-16
Jun-38	443	288	-35	Jun-68	309	288	-7	Jun-98	304	259	-15
Jul-38	279	280	0	Jul-68	224	280	25	Jul-98	318	217	-32
Aug-38	422	291	-31	Aug-68	331	291	-12	Aug-98	308	280	-9
Sep-38	311	305	-2	Sep-68	252	305	21	Sep-98	292	260	-11
Oct-38	356	364	2	Oct-68	413	364	-12	Oct-98	288	388	35
Nov-38	360	404	12	Nov-68	317	335	6	Nov-98	301	276	-8
Dec-38	432	211	-51	Dec-68	79	200	153	Dec-98	364	316	-13
Jan-39	23	82	255	Jan-69	59	82	38	Jan-99	78	147	89
Feb-39	4	37	836	Feb-69	20	37	87	Feb-99	92	58	-37
Mar-39	26	34	30	Mar-69	37	34	-9	Mar-99	95	27	-71
Apr-39	32	108	239	Apr-69	114	108	-5	Apr-99	173	187	8
May-39	152	264	74	May-69	283	291	3	May-99	262	266	2
Jun-39	286	288	1	Jun-69	176	288	64	Jun-99	396	386	-2
Jul-39	150	280	86	Jul-69	275	280	2	Jul-99	279	280	0
Aug-39	261	291	12	Aug-69	347	291	-16	Aug-99	395	155	-61
Sep-39	352	305	-13	Sep-69	360	305	-15	Sep-99	332	241	-27
Oct-39	328	364	11	Oct-69	296	364	23	Oct-99	292	254	-13
Nov-39	554	282	-49	Nov-69	333	389	17	Nov-99	435	315	-28
Dec-39	249	263	5	Dec-69	291	204	-30	Dec-99	617	396	-36
Jan-40	69	82	18	Jan-70	275	82	-70	Jan-00	126	111	-12
Feb-40	39	37	-4	Feb-70	67	37	-44	Feb-00	28	50	80
Mar-40	25	34	35	Mar-70	66	34	-49	Mar-00	19	22	18

GATUN TOTAL MONTHLY RAINFALL, MM
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION RAINFALL

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Apr-40	41	108	165	Apr-70	215	108	-50	Apr-00	106	103	-3
May-40	241	266	10	May-70	367	335	-9	May-00	281	313	11
Jun-40	205	288	40	Jun-70	213	288	35	Jun-00	399	211	-47
Jul-40	200	280	40	Jul-70	305	280	-8	Jul-00	220	260	18
Aug-40	292	291	0	Aug-70	337	291	-14	Aug-00	335	298	-11
Sep-40	271	305	13	Sep-70	285	305	7	Sep-00	259	286	10
Oct-40	338	364	8	Oct-70	315	364	16	Oct-00	451	384	-15
Nov-40	304	319	5	Nov-70	458	401	-13	Nov-00	226	328	45
Dec-40	61	196	221	Dec-70	419	237	-43	Dec-00	474	299	-37

Note: The numbers in Italic face for the period Jan-96 to Dec-00 are verification rainfalls.

**INPUT AND OUTPUT FILES
STREAMFLOW
MHTS PC PACKAGE - PAR MODEL FITTING**

MADDEN LAKE

INFLOW TO MADDEN LAKE (1941-97)									cms			
34.0	54.0	41.4	26.4	62.7	106.1	81.0	103.0	90.6	188.1	157.7	98.5	
44.2	33.2	36.0	63.3	54.3	96.0	88.7	88.2	101.8	130.9	90.7	88.8	
65.8	45.1	32.7	39.4	85.1	101.2	74.8	93.3	89.2	103.4	95.8	193.5	
56.0	47.5	23.0	41.5	108.2	79.7	108.0	121.8	93.2	148.4	146.7	257.0	
64.0	36.3	23.2	23.1	69.1	77.2	89.7	108.6	89.9	82.7	78.1	151.8	
40.6	28.0	19.0	25.1	63.3	77.4	116.5	93.7	85.7	73.4	68.3	165.1	
44.6	30.0	18.0	23.4	40.5	74.9	102.7	98.1	75.9	78.7	82.0	97.7	
36.5	19.8	13.9	13.8	38.8	61.3	104.3	78.4	73.9	89.7	108.9	65.1	
32.1	19.9	14.2	18.3	62.7	109.9	131.4	117.5	97.0	112.5	139.2	130.6	
43.6	39.4	23.7	47.5	104.8	81.0	163.2	118.4	80.9	66.0	123.1	159.0	
45.6	105.0	54.1	49.3	73.5	78.4	76.6	71.5	76.1	70.6	73.4	78.4	
42.5	27.1	18.3	24.8	61.8	62.9	91.8	109.8	91.7	123.5	75.4	134.3	
99.9	65.9	29.3	29.5	96.2	67.8	82.6	76.4	68.9	79.2	105.5	83.6	
39.8	29.6	26.3	33.3	66.1	90.1	98.0	107.8	89.2	62.6	159.4	160.4	
148.1	38.4	27.9	22.4	42.7	45.8	82.8	131.9	74.2	61.7	189.2	101.7	
140.5	50.2	47.0	47.3	119.3	92.9	145.7	82.1	85.3	94.0	189.2	108.4	
37.2	24.7	18.0	15.2	36.7	37.4	33.7	42.0	47.8	77.9	136.0	89.8	
86.1	36.0	27.7	19.0	48.4	53.2	73.0	70.9	82.7	70.5	89.9	72.4	
31.5	19.9	15.3	23.9	48.1	59.3	55.2	60.9	104.4	86.5	163.9	227.7	
123.6	28.2	22.1	68.0	80.4	81.3	82.4	77.7	70.8	81.5	95.0	227.6	
50.5	23.3	18.3	28.0	48.6	102.0	80.3	82.0	72.3	93.8	99.8	71.1	
40.5	24.1	19.2	21.1	69.1	56.0	96.7	112.7	89.3	90.5	99.1	74.9	
89.7	40.2	26.1	55.1	108.6	102.2	112.8	115.2	111.1	79.9	102.1	53.5	
30.9	23.3	19.6	36.0	69.9	117.6	83.0	74.4	75.0	68.4	96.5	50.0	
41.6	28.9	24.0	21.2	58.7	96.2	70.6	68.4	95.4	114.9	131.4	125.0	
59.7	35.6	27.2	82.7	102.2	78.5	78.9	75.6	95.3	95.7	208.2	182.7	
70.5	40.4	29.7	73.9	108.8	116.0	121.3	82.8	84.8	70.9	103.0	97.3	
30.5	28.5	21.5	23.8	58.6	57.6	74.9	91.5	95.3	85.7	83.0	50.1	
30.0	29.4	24.0	43.6	70.7	49.4	61.3	85.0	78.9	67.0	87.1	213.0	
147.1	35.4	33.9	82.2	111.8	80.8	89.7	104.0	103.0	120.7	119.8	173.8	
87.0	40.7	30.6	21.0	55.4	110.6	132.4	95.2	77.5	77.8	92.0	48.9	
175.2	39.1	23.4	55.6	66.6	67.0	48.1	61.6	73.5	84.8	83.8	57.6	
29.0	19.0	11.1	10.2	48.3	68.8	81.4	84.1	68.6	80.6	157.1	107.9	
59.0	28.5	20.0	15.4	33.3	53.6	64.7	77.3	69.1	93.9	109.5	64.0	
25.9	16.0	11.9	10.8	64.4	88.7	123.5	146.7	87.7	110.3	132.6	151.7	
55.3	29.7	24.5	34.3	51.5	53.4	35.8	41.0	59.5	90.4	109.8	37.9	
34.5	23.1	17.0	17.7	35.6	41.4	56.6	81.1	73.1	138.3	106.7	90.0	
29.8	27.7	20.5	70.2	94.8	99.8	96.2	114.8	79.2	78.4	99.1	52.7	
26.1	19.3	14.5	52.0	47.3	67.3	67.0	83.0	67.0	71.8	102.0	121.7	
73.3	42.9	22.6	23.6	62.4	90.2	49.9	56.0	55.6	78.1	97.7	98.5	
58.9	40.5	34.3	247.8	115.2	88.3	112.9	91.8	61.7	81.1	105.6	160.5	
73.2	32.9	20.5	30.0	49.5	47.6	86.0	85.4	73.7	118.2	74.9	45.9	
34.8	19.2	14.2	21.8	91.5	65.9	61.2	62.7	75.5	95.4	101.8	219.2	
53.9	34.2	19.5	13.5	44.2	81.1	93.4	149.2	100.6	113.5	123.9	79.0	
38.1	26.6	26.4	20.0	55.0	91.8	67.0	56.6	98.5	81.3	77.6	128.1	
39.9	24.4	23.5	63.2	121.9	89.0	73.2	65.8	102.2	120.7	138.1	58.0	
26.5	25.9	16.1	83.8	162.1	96.3	91.2	109.0	125.5	98.6	148.0	68.2	
28.8	31.7	19.6	16.0	57.3	51.6	132.7	151.4	85.9	123.5	100.2	75.9	
43.3	44.0	25.0	17.3	50.4	84.8	102.6	106.3	74.7	132.0	152.1	82.7	
75.2	41.8	33.9	42.5	154.2	56.5	55.7	98.0	101.7	133.1	123.7	121.9	
40.0	26.1	31.3	25.4	97.3	58.0	55.7	63.5	108.6	77.4	157.7	74.7	
34.8	21.6	18.0	39.7	143.5	104.5	88.7	138.3	103.3	77.5	115.9	78.9	
59.6	28.9	39.8	77.1	85.4	112.4	84.4	63.9	98.4	143.2	108.9	82.3	
32.2	21.5	17.1	14.9	73.5	109.1	91.8	106.5	83.7	83.7	151.4	63.2	
35.8	19.0	12.0	19.4	54.3	97.5	118.2	89.0	71.5	71.8	104.0	138.4	
167.8	64.1	54.7	46.3	124.1	104.5	99.0	105.4	74.6	87.4	202.6	211.5	
53.7	39.4	20.9	17.7	78.7	74.4	44.5	41.0	49.6	60.3	51.0	38.3	

INFLOW TO MADDEN LAKE (1941-97)

cms

Minimum BIC Order Determination
Maximum Permissible Order 10

PAR Model Orders
1 1 2 1 1 1 1 1 4 1 0 0

Total Length of Series = 684
Concentrated Log-Likelihood = -2.10716E+03
Number of Parameters = 38
Overall AIC = 5.43005E+05
Overall BIC = 5.43206E+05

Likelihood Ratio Test for Nonperiodic VS Periodic Correlations
AR(4) Model Fit to Detrended Series
Concentrated Log-Likelihood = -2.14560E+03
Chi-SQ = 76.90 on 10 DF, S.L. = 0.00E+00

Overall Portmanteau Test
Q = 112.01 ON 106 DF S.L. = .3294E+00

Overall Portmanteau Test - Squared-Residuals
Q = 155.01 ON 120 DF S.L. = .1586E-01

Period	Periodic Means and Standard Deviations		
	Mean	S.D.	Number of Data Points
1	5.857544E+01	3.635448E+01	57
2	3.359825E+01	1.434212E+01	57
3	2.451755E+01	9.431046E+00	57
4	3.911053E+01	3.453933E+01	57
5	7.521754E+01	3.056956E+01	57
6	7.972281E+01	2.112712E+01	57
7	8.711228E+01	2.677234E+01	57
8	9.067018E+01	2.582936E+01	57
9	8.368597E+01	1.548921E+01	57
10	9.425263E+01	2.568640E+01	57
11	1.162298E+02	3.436729E+01	57
12	1.112351E+02	5.525281E+01	57

Residual Variance	Period 1	
	BIC	AIC
1.16969E+03	6.66762E+04	6.66742E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	.2231	.0820	.0111	.1173	.0439

QA(10) = 8.26 ON 9 DF is not significant at the 5 percent level
QAA(10) = 7.94 ON 10 DF is not significant at the 5 percent level

Residual Variance	Period 2	
	BIC	AIC
1.69486E+02	9.66476E+03	9.66272E+03

Lag	è	SE(è)	ra	SD(ra)	raa
-----	---	-------	----	--------	-----

1 .1655 .0474 -.0458 .1379 .0006

QA(10) = 13.26 ON 9 DF is not significant at the 5 percent level
QAA(10) = 31.28 on 10 DF, S.L. = 5.268E-04

Period 3

Residual Variance	BIC	AIC
3.00225E+01	1.71937E+03	1.71528E+03

Lag	è	SE(è)	ra	SD(ra)	raa
1	.4613	.0557	.0000	.0959	-.0094
2	.0552	.0220	.0695	.1615	.2664

QA(10) = 12.34 ON 8 DF is not significant at the 5 percent level
QAA(10) = 32.89 on 10 DF, S.L. = 2.844E-04

Period 4

Residual Variance	BIC	AIC
1.05685E+03	6.02447E+04	6.02427E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	1.2370	.4566	.1238	.1323	.0335

QA(10) = 10.24 ON 9 DF is not significant at the 5 percent level
QAA(10) = 6.25 ON 10 DF is not significant at the 5 percent level

Period 5

Residual Variance	BIC	AIC
6.92867E+02	3.94975E+04	3.94954E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	.4501	.1009	-.0775	.1326	.2755

QA(10) = 11.22 ON 9 DF is not significant at the 5 percent level
QAA(10) = 9.29 ON 10 DF is not significant at the 5 percent level

Period 6

Residual Variance	BIC	AIC
3.90364E+02	2.22548E+04	2.22527E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	.2448	.0856	-.0370	.1339	.0843

QA(10) = 5.97 ON 9 DF is not significant at the 5 percent level
QAA(10) = 6.60 ON 10 DF is not significant at the 5 percent level

Period 7

Residual Variance	BIC	AIC
5.80359E+02	3.30845E+04	3.30824E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	.5528	.1510	-.0159	.1330	-.0540

QA(10) = 1.71 ON 9 DF is not significant at the 5 percent level
QAA(10) = 4.61 ON 10 DF is not significant at the 5 percent level

Period 8

		BIC	AIC		
Residual Variance					
3.87074E+02		2.20672E+04	2.20652E+04		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.6251	.0973	.0657	.1240	.1814

QA(10) = 7.57 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 10.23 ON 10 DF is not significant at the 5 percent level

Period 9

		BIC	AIC		
Residual Variance					
1.61480E+02		9.22054E+03	9.21236E+03		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.2589	.0870	.0000	.0000	-.1565
2	-.1144	.0913	.0000	.0000	-.0319
3	.1148	.0945	.0000	.0000	-.1432
4	.1804	.0593	.0893	.0669	.1311

QA(10) = 14.09 on 6 DF, S.L. = 2.868E-02
 QAA(10) = 17.01 ON 10 DF is not significant at the 5 percent level

Period 10

		BIC	AIC		
Residual Variance					
5.78473E+02		3.29770E+04	3.29749E+04		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.5822	.2057	.0016	.0757	-.1307

QA(10) = 4.72 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 7.40 ON 10 DF is not significant at the 5 percent level

Period 11

		BIC	AIC
Residual Variance			
1.18111E+03		6.73233E+04	6.73233E+04

QA(10) = 15.05 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 14.39 ON 10 DF is not significant at the 5 percent level

Period 12

		BIC	AIC
Residual Variance			
3.05287E+03		1.74014E+05	1.74014E+05

QA(10) = 7.59 ON 10 DF is not significant at the 5 percent level
 QAA(10) = 7.13 ON 10 DF is not significant at the 5 percent level

GATUN DOWNSTREAM

GATUN DOWNSTREAM (1941-97)													
57.5	57.7	32.0	33.6	72.4	120.5	124.8	174.0	175.7	278.3	205.5	114.9		
56.9	52.0	40.0	36.9	74.2	142.6	175.2	176.2	221.4	257.4	199.6	154.1		
37.4	43.4	36.3	44.6	115.9	146.7	102.2	112.0	111.0	153.7	220.6	249.6		
80.3	31.3	17.6	55.2	138.6	110.9	117.5	174.9	152.5	261.4	186.5	228.8		
58.9	31.8	18.4	25.4	81.7	102.6	105.1	107.4	141.5	236.3	257.2	293.6		
57.2	22.2	23.3	21.0	63.3	72.9	139.9	102.0	138.9	141.7	115.9	176.9		
54.7	30.2	26.3	27.9	69.5	102.9	112.6	134.3	150.7	178.4	145.4	103.8		
51.0	24.1	15.2	13.2	67.4	54.9	118.8	115.1	105.0	121.4	220.0	64.5		
27.8	14.2	11.1	13.6	65.8	156.2	135.4	147.3	170.0	193.8	338.5	193.6		
43.8	32.8	19.9	25.9	94.3	147.1	161.0	167.4	121.6	159.5	293.7	273.7		
57.9	59.4	24.6	47.2	101.2	85.9	103.6	132.0	142.6	169.3	188.5	127.2		
47.9	26.9	16.5	28.5	70.1	104.0	104.5	103.7	133.0	217.0	138.6	236.3		
105.5	48.5	28.0	33.8	109.0	80.3	126.8	111.4	114.0	229.5	236.3	110.3		
46.3	30.4	16.6	31.6	120.4	111.9	225.4	185.7	173.7	173.5	281.9	140.6		
145.9	38.3	22.7	16.7	67.9	122.4	103.4	168.6	155.4	177.6	285.7	151.9		
119.6	39.9	32.3	33.9	126.6	117.3	171.1	105.6	146.7	248.5	206.4	86.1		
23.7	13.8	8.3	6.1	59.9	53.6	54.2	90.3	87.1	172.9	172.8	81.1		
60.3	53.1	32.0	30.0	82.7	84.9	106.9	121.1	132.4	157.3	118.1	79.5		
30.9	17.0	11.4	20.5	55.0	70.8	67.4	78.7	120.3	173.1	185.5	295.5		
72.8	23.4	36.5	71.2	122.0	126.9	109.6	111.5	96.2	171.9	202.7	347.6		
46.3	22.3	14.5	33.0	46.6	130.7	99.5	120.4	145.5	213.2	196.3	124.1		
49.0	23.6	16.1	24.7	125.6	109.5	143.5	164.0	150.5	159.8	179.0	130.2		
95.2	33.3	18.8	39.2	110.1	145.2	152.5	218.9	175.8	221.4	324.3	83.4		
35.0	15.9	11.3	29.0	111.1	201.7	258.3	232.9	215.7	276.6	325.4	103.6		
64.6	30.5	18.5	13.1	78.6	91.8	82.7	124.5	121.3	288.6	428.6	216.1		
73.0	26.7	17.1	52.5	110.1	131.7	110.3	139.6	130.7	193.5	316.5	187.5		
52.6	30.1	22.2	39.6	109.6	179.3	160.2	152.4	170.7	233.9	232.2	128.5		
44.4	34.5	23.0	12.4	75.1	101.2	83.0	132.5	128.3	182.2	171.5	71.9		
49.7	23.7	16.6	29.8	66.2	67.2	96.0	136.4	173.8	175.1	203.2	181.5		
122.4	40.0	36.9	54.2	139.3	104.0	113.7	154.6	140.7	231.1	234.3	283.1		
131.9	47.5	38.8	22.3	114.2	120.8	134.4	173.9	156.0	186.0	217.7	57.0		
101.5	36.0	22.8	72.6	71.6	123.9	67.0	72.5	140.0	157.8	127.2	99.7		
44.9	30.6	9.9	15.3	70.7	160.3	161.6	145.8	205.5	187.3	312.3	128.9		
52.9	31.9	26.0	17.8	51.9	92.6	115.8	108.2	123.8	285.7	238.9	104.3		
31.5	24.2	15.6	12.1	61.8	87.4	128.9	194.3	155.7	250.6	322.9	231.7		
62.2	31.7	18.4	33.0	64.0	75.3	31.2	52.1	125.9	189.9	160.0	57.5		
30.7	17.7	10.2	10.4	54.2	59.1	63.2	152.7	127.8	195.1	167.5	90.9		
39.0	25.7	26.3	103.6	105.0	134.6	145.5	184.1	151.6	186.1	226.3	103.4		
43.6	24.1	17.8	59.7	82.0	121.7	111.2	148.1	145.5	198.7	166.1	94.7		
96.5	43.9	20.8	20.6	92.0	123.4	94.3	131.4	95.9	166.7	176.0	127.9		
97.5	48.2	45.5	178.0	224.3	218.8	195.6	173.1	127.8	190.4	317.8	267.5		
110.7	51.8	32.2	44.4	71.2	83.7	80.4	72.6	105.5	189.8	123.6	41.1		
26.0	15.3	10.5	22.3	72.4	81.5	63.9	89.1	158.8	156.3	155.2	189.6		
75.7	40.6	18.1	18.3	86.4	114.2	121.0	227.1	214.8	263.8	263.0	96.5		
51.3	32.9	25.2	21.6	74.7	104.7	84.7	103.7	171.4	144.4	140.1	182.3		
45.0	26.1	21.8	55.9	56.6	108.9	77.1	88.8	108.9	256.3	171.3	67.0		
30.5	26.7	13.1	84.7	131.1	95.5	119.7	143.3	174.7	263.4	202.9	107.6		
32.2	22.4	11.3	15.1	73.1	84.7	124.8	178.6	197.2	253.6	184.0	121.2		
46.4	39.2	25.3	21.6	56.1	68.4	114.3	149.8	121.4	167.5	227.5	152.0		
69.5	34.6	32.6	31.8	103.7	98.9	109.8	130.2	229.8	271.1	199.4	151.5		
43.7	29.3	44.5	28.9	114.9	85.1	92.2	86.9	146.6	152.4	190.2	90.9		
57.9	24.0	13.2	42.5	134.7	139.9	111.7	143.6	201.4	145.5	143.9	103.9		
64.5	38.7	44.9	67.0	72.2	119.5	121.3	94.4	191.8	187.7	235.6	122.4		
48.9	25.1	26.8	22.1	89.4	110.3	77.3	95.1	114.6	163.6	211.6	65.0		
55.5	20.1	15.2	31.1	103.6	144.0	155.6	153.7	135.7	154.3	212.1	137.6		
238.1	63.7	48.8	33.1	126.5	153.1	153.6	181.5	170.8	189.2	257.7	151.5		
45.6	29.8	15.1	15.1	65.3	68.4	53.9	46.9	72.9	101.0	115.1	37.8		

GATUN DOWNSTREAM (1941-97)

Minimum BIC Order Determination
Maximum Permissible Order 10

PAR Model Orders
1 1 1 1 1 1 1 1 1 3 1

Total Length of Series = 684
Concentrated Log-Likelihood = -2.24784E+03
Number of Parameters = 38
Overall AIC = 8.52912E+05
Overall BIC = 8.53112E+05

Likelihood Ratio Test for Nonperiodic VS Periodic Correlations
AR(3) Model Fit to Detrended Series
Concentrated Log-Likelihood = -2.34830E+03
Chi-SQ = 200.91 on 11 DF, S.L. = 0.00E+00

Overall Portmanteau Test
Q = 112.08 ON 106 DF S.L. = .3278E+00

Overall Portmanteau Test - Squared-Residuals
Q = 103.24 ON 120 DF S.L. = .8622E+00

Periodic Means and Standard Deviations
Number of
Period Mean S.D. Data Points
1 6.389824E+01 3.619296E+01 57
2 3.250525E+01 1.168866E+01 57
3 2.306492E+01 1.013882E+01 57
4 3.588069E+01 2.710567E+01 57
5 9.041754E+01 3.109410E+01 57
6 1.115140E+02 3.407906E+01 57
7 1.171070E+02 4.063780E+01 57
8 1.353842E+02 4.104350E+01 57
9 1.476228E+02 3.442281E+01 57
10 1.982825E+02 4.484549E+01 57
11 2.153790E+02 6.525047E+01 57
12 1.438754E+02 7.142007E+01 57

Period 1		
=====		
Residual Variance	BIC	AIC
1.21589E+03	6.93095E+04	6.93075E+04

Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.1358	.0647	-.0044	.1101	-.0475

QA(10) = 10.88 ON 9 DF is not significant at the 5 percent level
QAA(10) = 2.62 ON 10 DF is not significant at the 5 percent level

Period 2		
=====		
Residual Variance	BIC	AIC
8.10420E+01	4.62344E+03	4.62139E+03

Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
-----	-----------	-----------------	----	--------	-----

1 .2060 .0329 -.0275 .1497 -.0654

QA(10) = 8.43 ON 9 DF is not significant at the 5 percent level
QAA(10) = 3.05 ON 10 DF is not significant at the 5 percent level

Period 3
=====

Residual Variance	BIC	AIC
5.15894E+01	2.94464E+03	2.94260E+03

Lag	è	SE(è)	ra	SD(ra)	raa
1	.6122	.0814	-.1307	.1233	.1050

QA(10) = 10.55 ON 9 DF is not significant at the 5 percent level
QAA(10) = 28.69 on 10 DF, S.L. = 1.397E-03

Period 4
=====

Residual Variance	BIC	AIC
6.11199E+02	3.48424E+04	3.48403E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	1.0962	.3230	.0821	.1325	.1710

QA(10) = 17.08 on 9 DF, S.L. = 4.751E-02
QAA(10) = 5.20 ON 10 DF is not significant at the 5 percent level

Period 5
=====

Residual Variance	BIC	AIC
5.47373E+02	3.12043E+04	3.12023E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	.7556	.1143	-.0812	.1338	.1018

QA(10) = 10.06 ON 9 DF is not significant at the 5 percent level
QAA(10) = 13.50 ON 10 DF is not significant at the 5 percent level

Period 6
=====

Residual Variance	BIC	AIC
8.09924E+02	4.61697E+04	4.61677E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	.6029	.1212	-.1165	.1287	-.0615

QA(10) = 9.81 ON 9 DF is not significant at the 5 percent level
QAA(10) = 3.19 ON 10 DF is not significant at the 5 percent level

Period 7
=====

Residual Variance	BIC	AIC
9.20784E+02	5.24887E+04	5.24867E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	.7932	.1179	-.1155	.0729	.1230

QA(10) = 10.78 ON 9 DF is not significant at the 5 percent level
QAA(10) = 7.14 ON 10 DF is not significant at the 5 percent level

Period 8

		BIC	AIC		
Residual	Variance				
8.44319E+02		4.81302E+04	4.81282E+04		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.7133	.0947	-.0384	.0881	-.0068

QA(10) = 8.26 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 5.41 ON 10 DF is not significant at the 5 percent level

Period 9

		BIC	AIC		
Residual	Variance				
7.95667E+02		4.53570E+04	4.53550E+04		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.4807	.0910	-.1095	.0935	-.1137

QA(10) = 5.87 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 8.90 ON 10 DF is not significant at the 5 percent level

Period 10

		BIC	AIC		
Residual	Variance				
1.66745E+03		9.50485E+04	9.50464E+04		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.5385	.1571	-.1174	.0759	-.0343

QA(10) = 4.78 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 3.61 ON 10 DF is not significant at the 5 percent level

Period 11

		BIC	AIC		
Residual	Variance				
2.75220E+03		1.56888E+05	1.56882E+05		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.3837	.1739	.0000	.0000	.3849
2	-.3733	.2545	.0000	.0000	.0077
3	.8696	.2111	-.1678	.0922	-.0676

QA(10) = 8.76 ON 7 DF is not significant at the 5 percent level
 QAA(10) = 12.89 ON 10 DF is not significant at the 5 percent level

Period 12

		BIC	AIC		
Residual	Variance				
4.58524E+03		2.61363E+05	2.61361E+05		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.3480	.1375	.0450	.0788	-.1557

QA(10) = 6.83 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 9.05 ON 10 DF is not significant at the 5 percent level

GATUN TOTAL

GATUN TOTAL (1941-97)												
91.5	111.8	73.4	60.0	135.1	226.6	205.7	277.0	266.4	466.4	363.2	213.4	
101.1	85.3	76.0	100.2	128.5	238.6	263.9	264.3	323.2	388.3	290.4	242.9	
103.2	88.5	69.0	84.0	201.0	247.9	177.0	205.3	200.3	257.1	316.3	443.1	
136.3	78.7	40.6	96.7	246.8	190.6	225.6	296.7	245.6	409.8	333.2	485.9	
122.9	68.0	41.5	48.5	150.9	179.8	194.8	216.0	231.4	319.0	335.3	445.4	
97.8	50.2	42.3	46.1	126.6	150.3	256.3	195.7	224.7	215.1	184.1	342.0	
99.3	60.2	34.3	51.3	110.0	177.7	215.3	232.4	226.6	257.1	227.4	201.5	
87.6	44.0	29.1	26.9	106.2	116.1	223.2	193.5	178.9	211.2	328.9	129.6	
59.9	34.0	25.3	32.0	128.5	266.1	266.8	264.8	267.0	306.2	477.7	324.2	
87.3	72.1	43.6	73.3	199.0	228.1	324.2	285.9	202.5	225.4	416.7	432.7	
103.4	164.5	78.7	96.5	174.7	164.3	180.2	203.5	218.7	239.9	261.9	205.7	
90.4	54.1	34.8	53.3	131.9	166.9	196.2	213.5	224.7	340.5	214.0	370.6	
205.4	114.4	57.3	63.3	205.2	148.0	209.4	187.8	182.8	308.7	341.8	194.0	
86.1	60.1	42.9	64.9	186.5	202.0	323.4	293.5	262.9	236.1	441.3	301.0	
294.0	76.7	50.6	39.1	110.7	168.2	186.2	300.5	229.5	239.3	474.9	253.6	
260.2	90.1	79.3	81.2	245.9	210.2	316.8	187.7	232.0	342.4	395.6	194.5	
61.0	38.5	26.3	21.3	96.6	91.0	87.9	132.3	134.9	250.8	308.7	171.0	
146.4	89.1	59.7	49.0	131.1	138.1	179.9	192.0	215.1	227.9	208.0	151.9	
62.4	36.9	26.8	44.4	103.1	130.2	122.6	139.6	224.7	259.6	349.4	523.3	
196.5	51.6	58.5	139.2	202.5	208.2	192.0	189.3	167.1	253.4	297.7	575.2	
96.8	45.6	32.8	61.0	95.2	232.8	179.8	202.4	217.8	307.0	296.1	195.2	
89.5	47.7	35.2	45.8	194.7	165.6	240.3	276.7	239.8	250.3	278.1	205.1	
184.9	73.4	44.9	94.3	218.6	247.4	265.3	334.1	286.9	301.2	426.4	136.9	
65.9	39.2	30.8	65.0	181.0	319.3	341.3	307.3	290.7	345.0	421.9	153.6	
106.2	59.4	42.5	34.3	137.3	187.9	153.3	192.9	216.7	403.5	560.0	341.0	
132.6	62.3	44.4	135.2	212.2	210.2	189.2	215.2	225.9	289.2	524.6	370.2	
123.0	70.5	51.9	113.4	218.4	295.3	281.4	235.2	255.5	304.8	335.2	225.8	
74.9	62.9	44.5	36.2	133.7	158.8	157.9	224.0	223.6	267.9	254.5	122.0	
79.8	53.1	40.7	73.4	136.9	116.5	157.3	221.3	252.7	242.1	290.3	394.5	
269.5	75.4	70.8	136.4	251.1	184.8	203.4	258.6	243.8	351.8	354.0	456.9	
218.9	88.2	69.4	43.4	169.6	231.5	266.8	269.0	233.5	263.8	309.8	105.9	
276.7	75.1	46.2	128.3	138.2	190.8	115.0	134.1	213.5	242.6	211.1	157.4	
73.9	49.6	21.0	25.5	119.1	229.2	242.9	229.9	274.1	268.0	469.4	236.8	
111.9	60.4	46.1	33.2	85.2	146.2	180.5	185.5	192.9	379.6	348.4	168.3	
57.4	40.2	27.5	22.8	126.1	176.1	252.4	341.0	243.4	360.9	455.6	383.4	
117.5	61.4	42.9	67.3	115.4	128.7	67.0	93.1	185.4	280.3	269.8	95.4	
65.2	40.8	27.2	28.2	89.8	100.5	119.8	233.8	200.9	333.4	274.2	180.9	
68.8	53.4	46.8	173.8	199.7	234.4	241.7	298.9	230.8	264.6	325.3	156.1	
69.7	43.4	32.3	111.7	129.3	189.0	178.2	231.1	212.5	270.6	268.1	216.4	
169.8	86.8	43.4	44.1	154.4	213.6	144.2	187.4	151.6	244.8	273.7	226.4	
156.4	88.7	79.9	425.7	339.5	307.1	308.5	265.0	189.5	271.5	423.4	428.0	
183.9	84.7	52.7	74.4	120.7	131.3	166.4	158.0	179.2	308.0	198.5	87.0	
60.7	34.5	24.6	44.1	163.9	147.4	125.0	151.8	234.3	251.7	257.1	408.9	
129.6	74.8	37.6	31.7	130.6	195.3	214.4	376.3	315.4	377.3	387.0	175.5	
89.3	59.5	51.5	41.6	129.8	196.4	151.8	160.3	269.9	225.7	217.6	310.4	
84.9	50.5	45.4	119.0	178.5	198.0	150.4	154.6	211.1	377.0	309.4	124.9	
57.0	52.6	29.2	168.5	293.2	191.8	210.8	252.3	300.3	362.0	350.8	175.8	
61.0	54.1	30.9	31.2	130.4	136.3	257.5	330.0	283.1	377.2	284.3	197.1	
89.7	83.2	50.3	38.9	106.5	153.2	216.9	256.1	196.1	299.5	379.7	234.7	
144.7	76.5	66.5	74.3	257.9	155.4	165.6	228.2	331.6	404.2	323.1	273.4	
83.8	55.4	75.8	54.2	212.2	143.1	147.8	150.5	255.2	229.8	347.9	165.5	
92.7	45.6	31.2	82.2	278.2	244.4	200.4	281.9	304.7	222.9	259.8	182.8	
124.1	67.6	84.7	144.1	157.6	231.9	205.7	158.3	290.2	330.9	344.5	204.7	
81.1	46.7	44.0	36.9	162.9	219.5	169.1	201.6	198.3	247.3	363.0	128.2	
91.3	39.1	27.2	50.5	157.9	241.5	273.8	242.7	207.2	226.1	316.1	276.0	
405.9	127.9	103.5	79.4	250.7	257.6	252.6	286.9	245.4	276.6	460.3	362.9	
99.3	69.2	36.1	32.7	143.9	142.8	98.5	87.9	122.4	161.3	166.0	76.0	

GATUN TOTAL (1941-97)

Minimum BIC Order Determination
 Maximum Permissible Order 10

PAR Model Orders
 1 1 2 1 1 1 1 1 1 3 1

Total Length of Series = 684
 Concentrated Log-Likelihood = -2.59341E+03
 Number of Parameters = 39
 Overall AIC = 2.25833E+06
 Overall BIC = 2.25853E+06

Likelihood Ratio Test for Nonperiodic VS Periodic Correlations
 AR(3) Model Fit to Detrended Series
 Concentrated Log-Likelihood = -2.65415E+03
 Chi-SQ = 121.47 on 12 DF, S.L. = 0.00E+00

Overall Portmanteau Test
 Q = 100.46 ON 105 DF S.L. = .6111E+00

Overall Portmanteau Test - Squared-Residuals
 Q = 134.54 ON 120 DF S.L. = .1725E+00

Period	Periodic Means and Standard Deviations		Number of Data Points
	Mean	S.D.	
1	1.224737E+02	6.929495E+01	57
2	6.610876E+01	2.435462E+01	57
3	4.741054E+01	1.821353E+01	57
4	7.498071E+01	6.031765E+01	57
5	1.656333E+02	5.582751E+01	57
6	1.912368E+02	5.020675E+01	57
7	2.042158E+02	6.102285E+01	57
8	2.260562E+02	6.153305E+01	57
9	2.313140E+02	4.398235E+01	57
10	2.925369E+02	6.231987E+01	57
11	3.316053E+02	8.624196E+01	57
12	2.551140E+02	1.206849E+02	57

Residual Variance	Period 1		AIC
	BIC	2.47295E+05	
4.33843E+03			2.47293E+05

Lag	è	SE(è)	ra	SD(ra)	raa
1	.1784	.0723	-.0011	.1139	-.0443

QA(10) = 9.09 ON 9 DF is not significant at the 5 percent level
 QAA(10) = 3.43 ON 10 DF is not significant at the 5 percent level

Residual Variance	Period 2		AIC
	BIC	2.33211E+04	
4.09071E+02			2.33191E+04

Lag	è	SE(è)	ra	SD(ra)	raa
-----	---	-------	----	--------	-----

1 .1958 .0387 -.0504 .1408 -.0244

QA(10) = 8.62 ON 9 DF is not significant at the 5 percent level
QAA(10) = 7.00 ON 10 DF is not significant at the 5 percent level

Period 3

Residual Variance	BIC	AIC
1.26684E+02	7.22909E+03	7.22501E+03

Lag	è	SE(è)	ra	SD(ra)	raa
1	.4528	.0737	.0000	.1134	.0018
2	.0702	.0259	.0205	.1621	-.0022

QA(10) = 13.99 ON 8 DF is not significant at the 5 percent level
QAA(10) = 42.78 on 10 DF, S.L. = 5.424E-06

Period 4

Residual Variance	BIC	AIC
3.06178E+03	1.74525E+05	1.74523E+05

Lag	è	SE(è)	ra	SD(ra)	raa
1	1.3182	.4024	.1262	.1322	.1464

QA(10) = 11.91 ON 9 DF is not significant at the 5 percent level
QAA(10) = 6.55 ON 10 DF is not significant at the 5 percent level

Period 5

Residual Variance	BIC	AIC
1.74848E+03	9.96671E+04	9.96651E+04

Lag	è	SE(è)	ra	SD(ra)	raa
1	.6132	.0918	-.0922	.0527	.0310

QA(10) = 7.52 ON 9 DF is not significant at the 5 percent level
QAA(10) = 10.49 ON 10 DF is not significant at the 5 percent level

Period 6

Residual Variance	BIC	AIC
1.93191E+03	1.10123E+05	1.10121E+05

Lag	è	SE(è)	ra	SD(ra)	raa
1	.4346	.1043	-.1348	.0878	.0271

QA(10) = 5.78 ON 9 DF is not significant at the 5 percent level
QAA(10) = 2.96 ON 10 DF is not significant at the 5 percent level

Period 7

Residual Variance	BIC	AIC
2.23177E+03	1.27215E+05	1.27213E+05

Lag	è	SE(è)	ra	SD(ra)	raa
1	.7694	.1246	-.0535	.0640	-.2114

QA(10) = 4.52 ON 9 DF is not significant at the 5 percent level
QAA(10) = 7.47 ON 10 DF is not significant at the 5 percent level

Period 8					
=====					
Residual		BIC	AIC		
Variance					
1.97658E+03		1.12669E+05	1.12667E+05		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.6971	.0965	.0164	.0838	.1187
QA(10) =	6.47	ON 9 DF	is not significant at the 5 percent level		
QAA(10) =	4.76	ON 10 DF	is not significant at the 5 percent level		

Period 9					
=====					
Residual		BIC	AIC		
Variance					
1.33696E+03		7.62107E+04	7.62086E+04		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.3972	.0787	-.0130	.0916	-.0442
QA(10) =	14.19	ON 9 DF	is not significant at the 5 percent level		
QAA(10) =	29.89	on 10 DF,	S.L. =	8.919E-04	

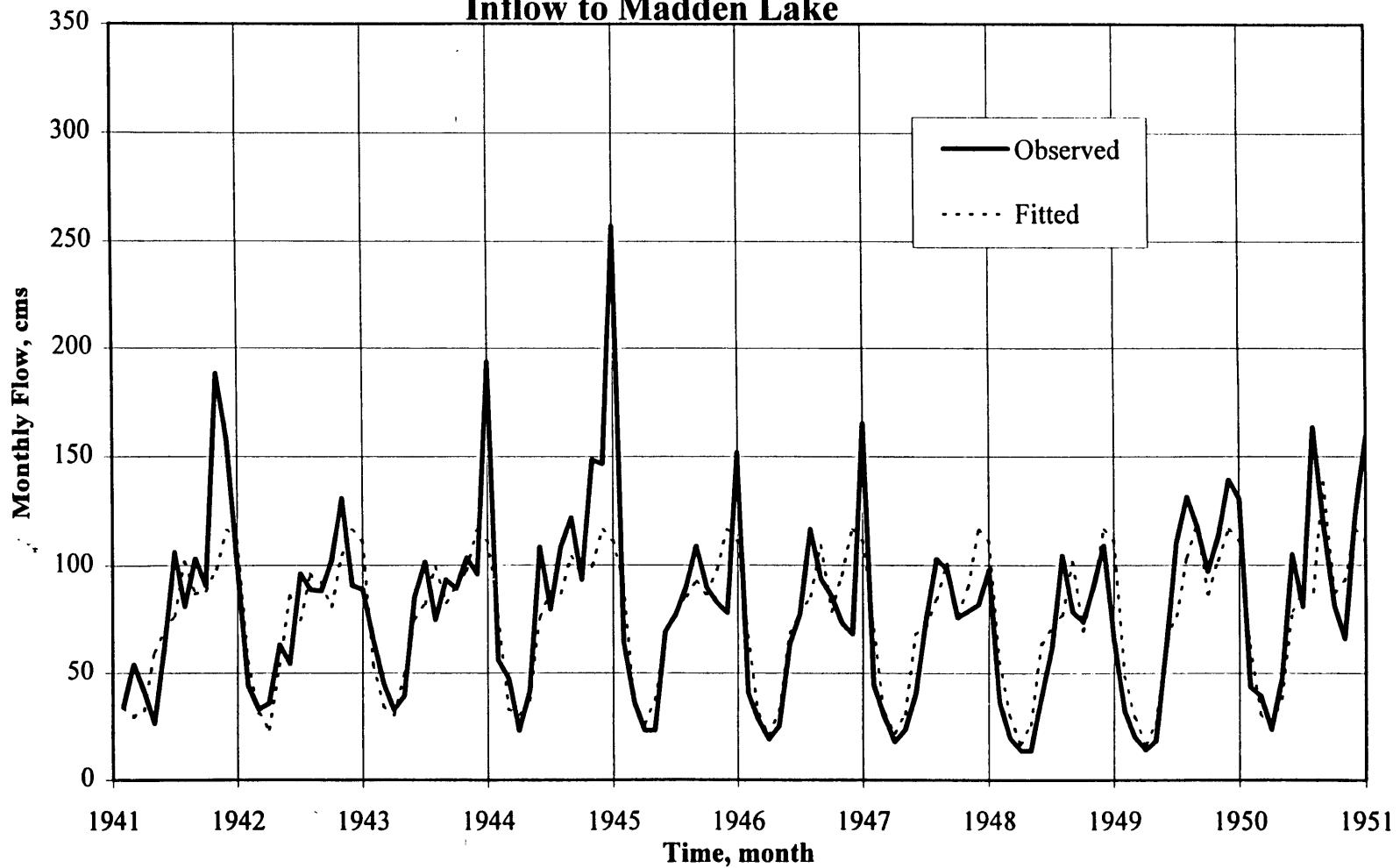
Period 10					
=====					
Residual		BIC	AIC		
Variance					
3.12868E+03		1.78339E+05	1.78337E+05		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.6248	.1684	-.0650	.0736	-.0964
QA(10) =	4.84	ON 9 DF	is not significant at the 5 percent level		
QAA(10) =	5.73	ON 10 DF	is not significant at the 5 percent level		

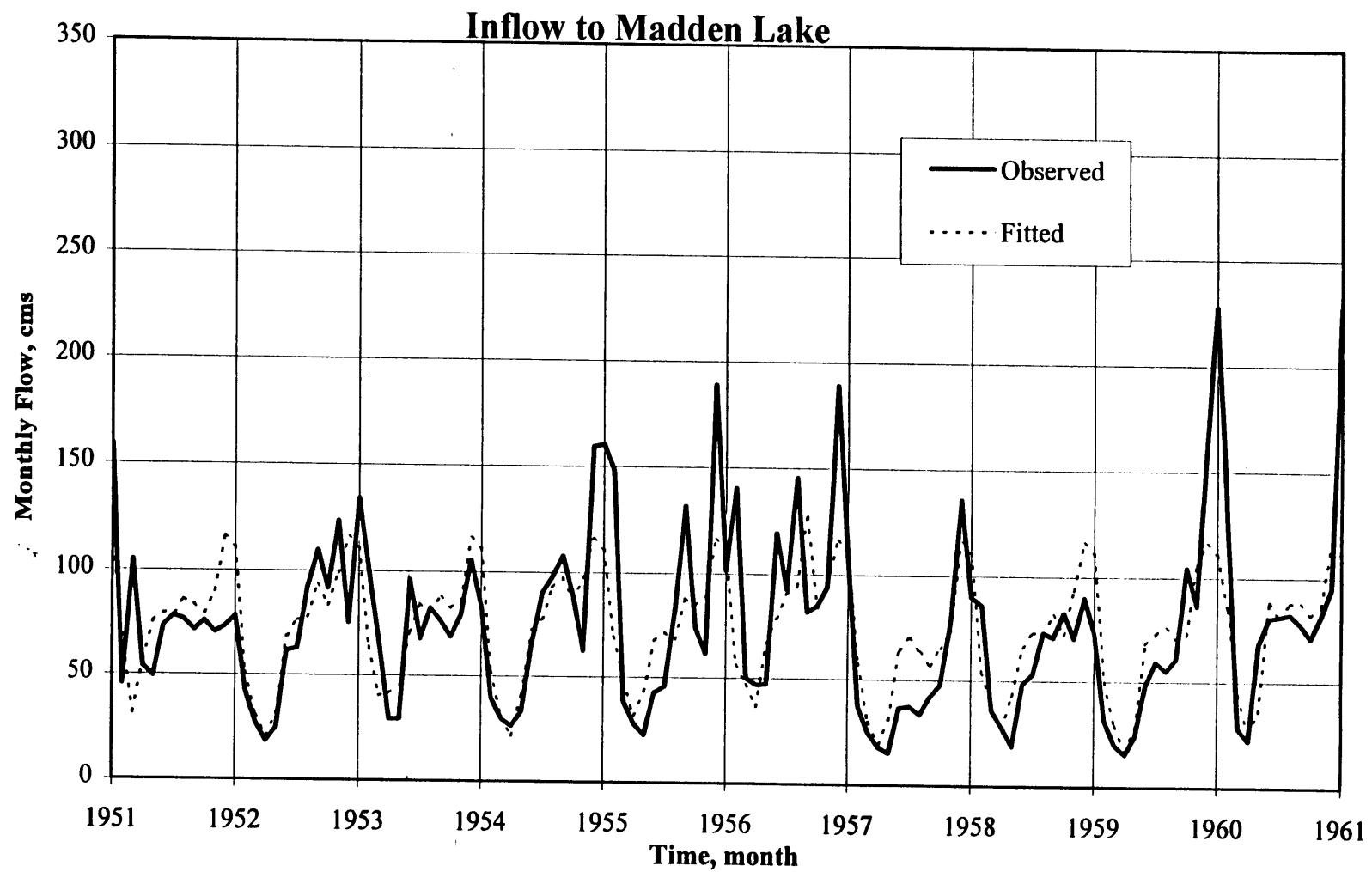
Period 11					
=====					
Residual		BIC	AIC		
Variance					
5.68968E+03		3.24324E+05	3.24318E+05		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.2787	.1799	.0000	.0000	.1696
2	-.1551	.2891	.0000	.0000	-.1939
3	.5989	.1967	-.1479	.0911	-.0632
QA(10) =	9.45	ON 7 DF	is not significant at the 5 percent level		
QAA(10) =	7.08	ON 10 DF	is not significant at the 5 percent level		

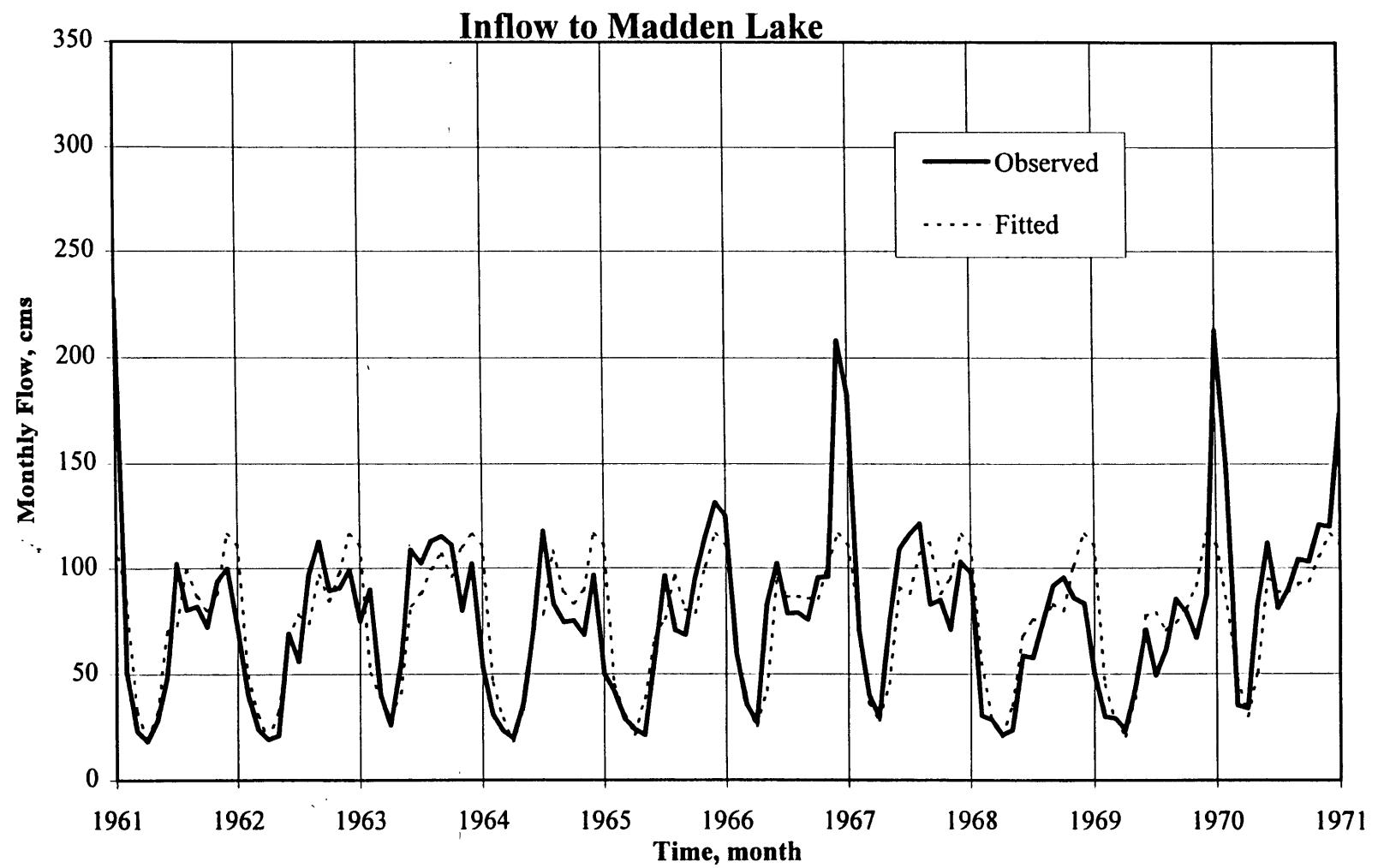
Period 12					
=====					
Residual		BIC	AIC		
Variance					
1.35468E+04		7.72174E+05	7.72171E+05		
Lag	\hat{e}	SE(\hat{e})	ra	SD(ra)	raa
1	.3700	.1788	.0006	.0642	-.2020
QA(10) =	4.07	ON 9 DF	is not significant at the 5 percent level		
QAA(10) =	6.40	ON 10 DF	is not significant at the 5 percent level		

**COMPARISON OF
OBSERVED AND FITTED / VERIFICATION FLOWS**

Inflow to Madden Lake

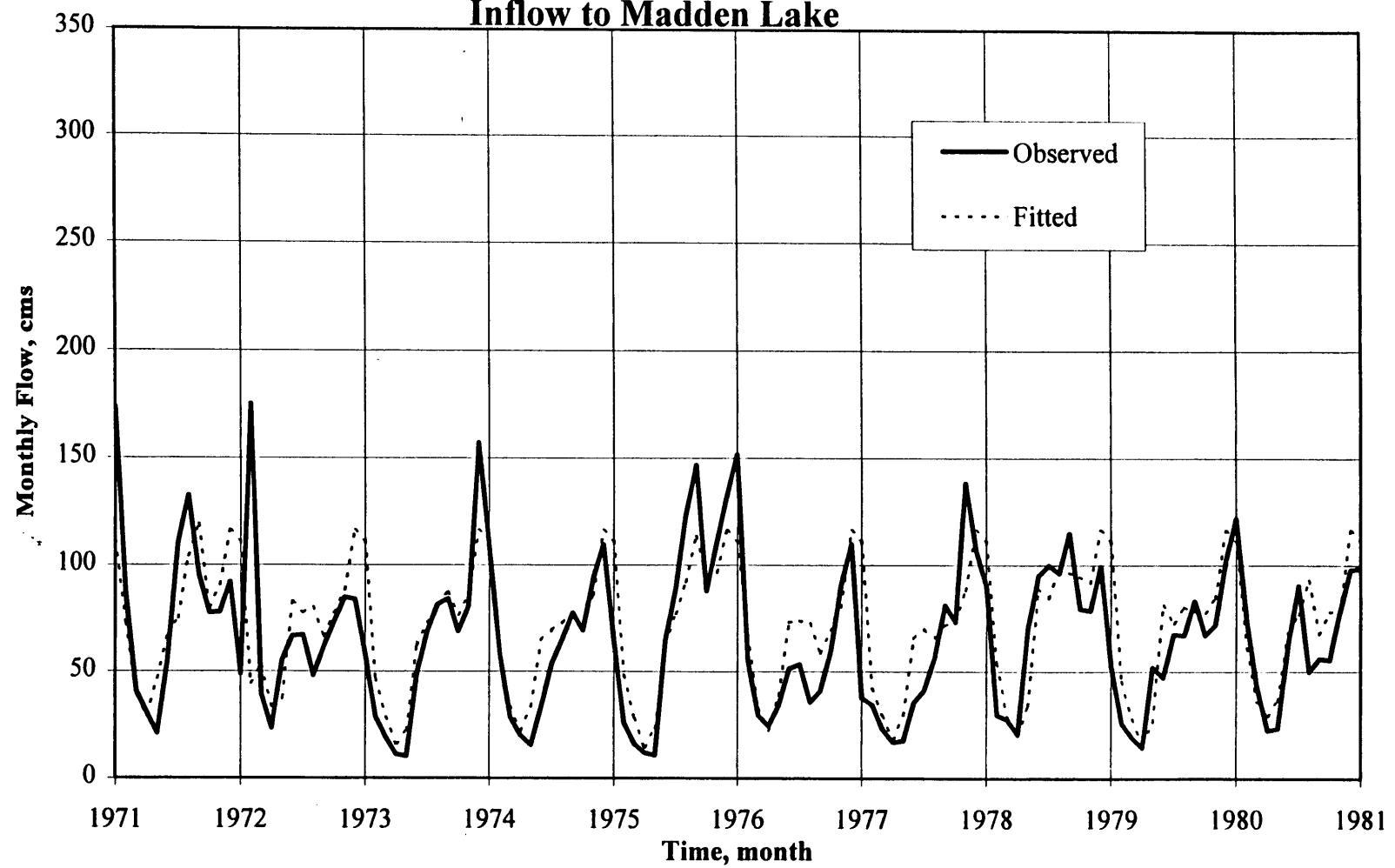




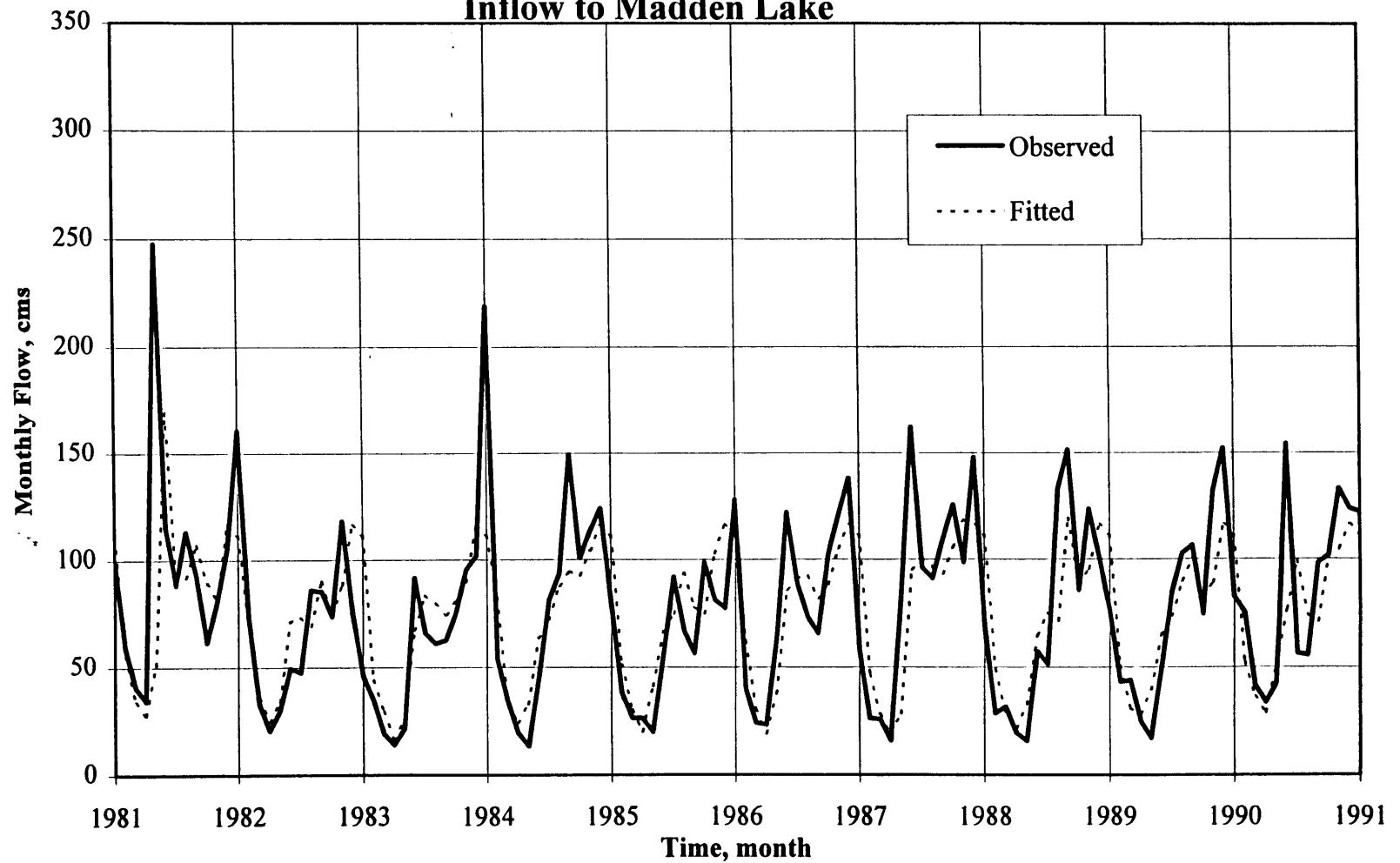


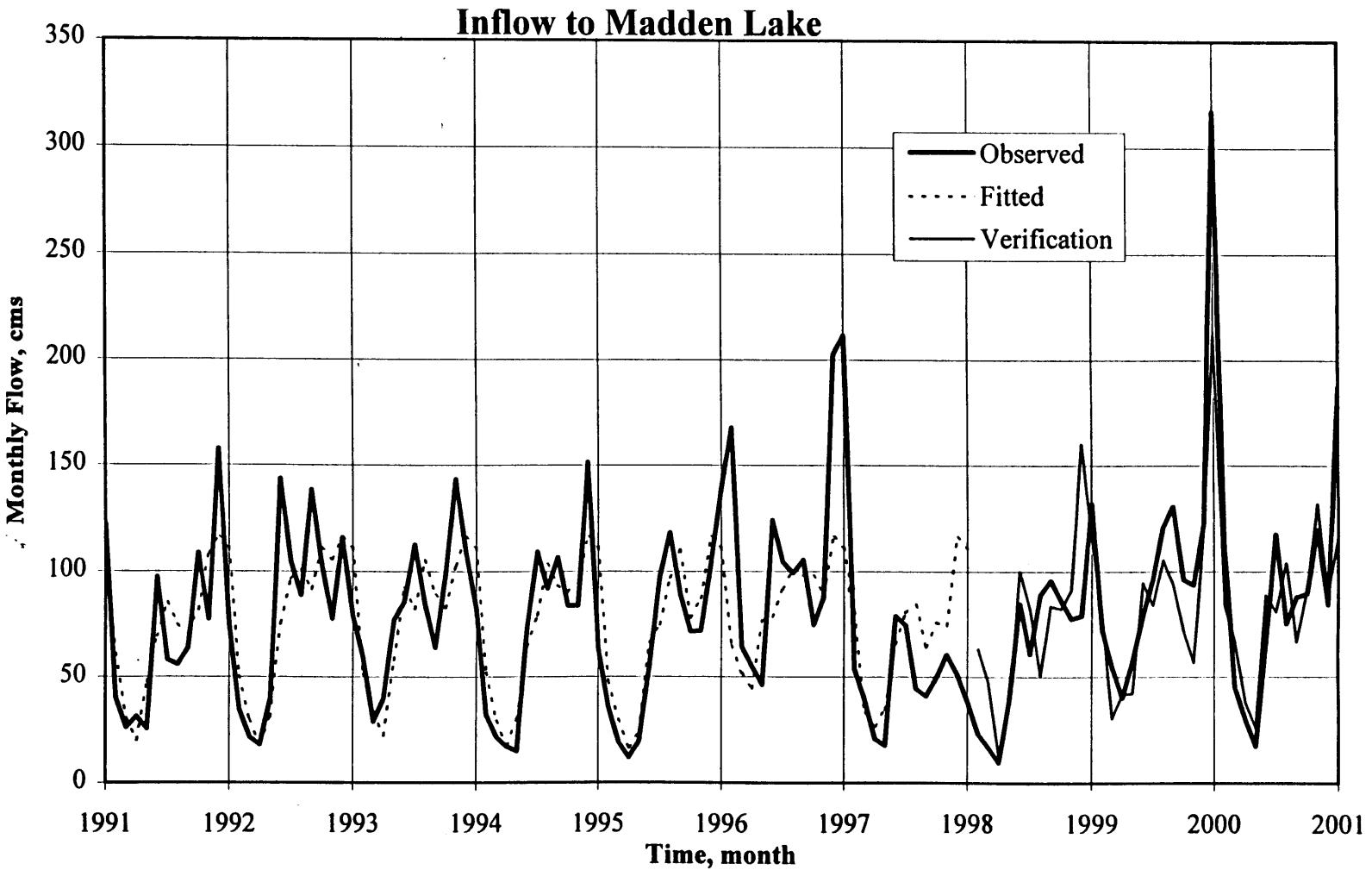
Inflow to Madden Lake

F-V-5

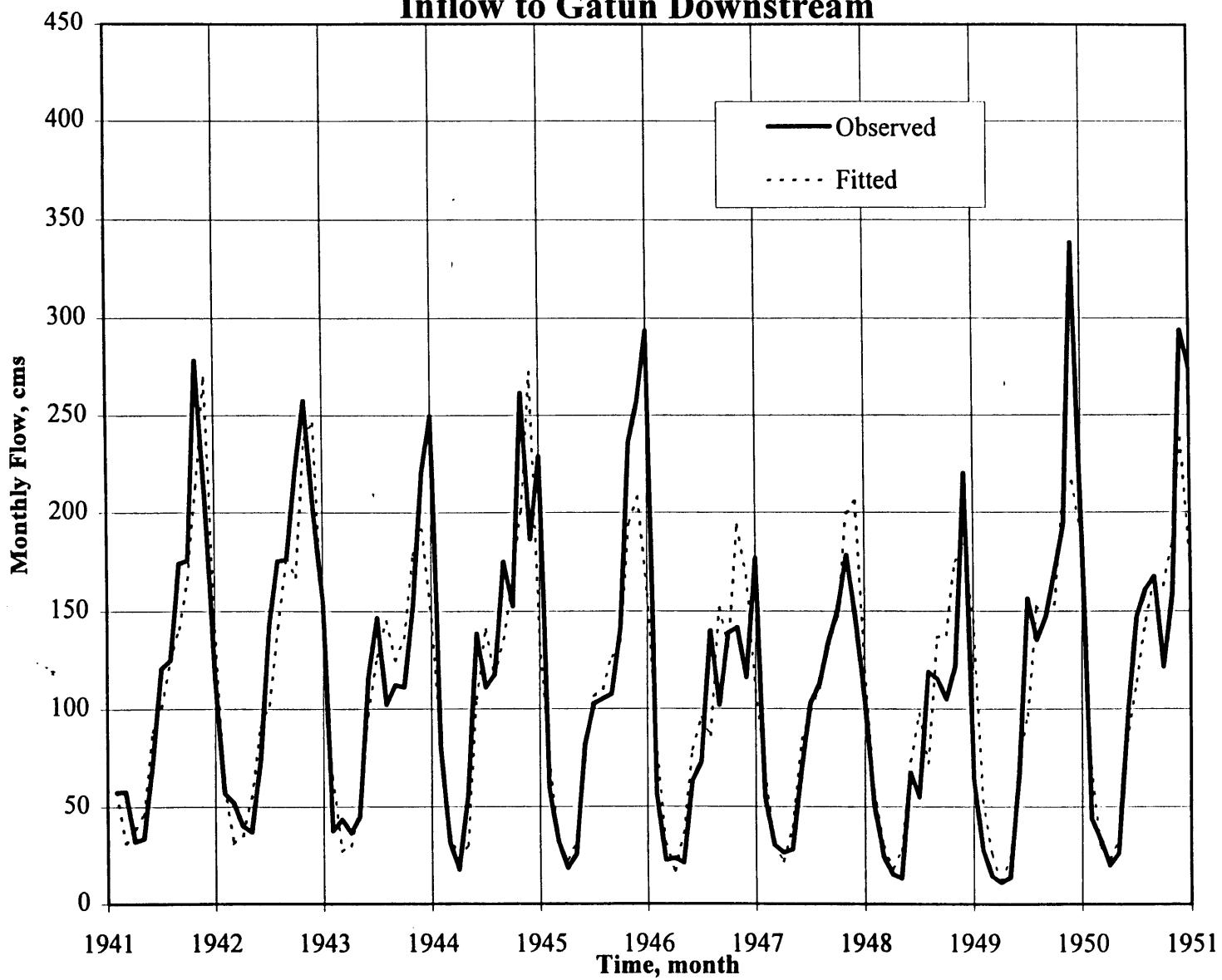


Inflow to Madden Lake

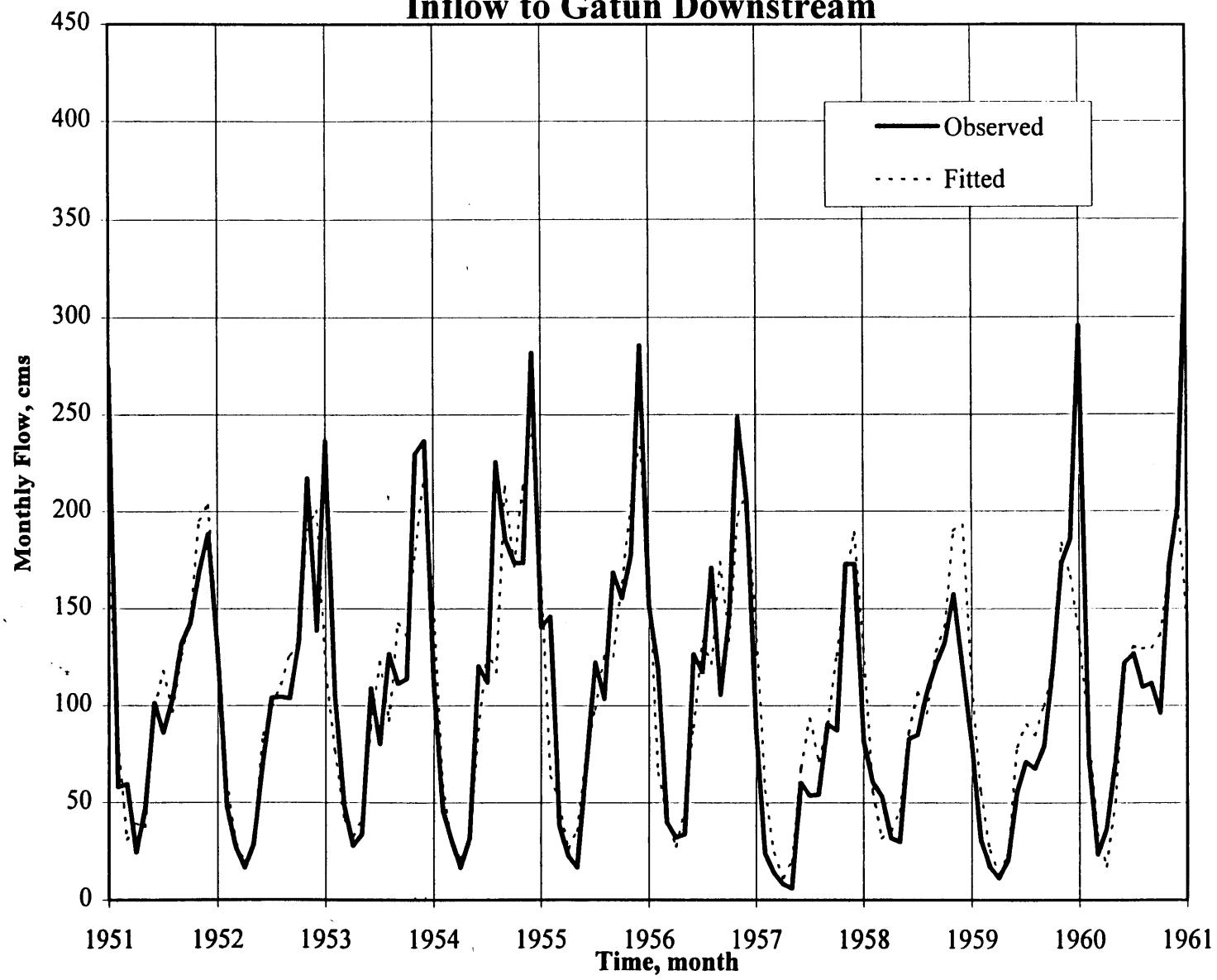


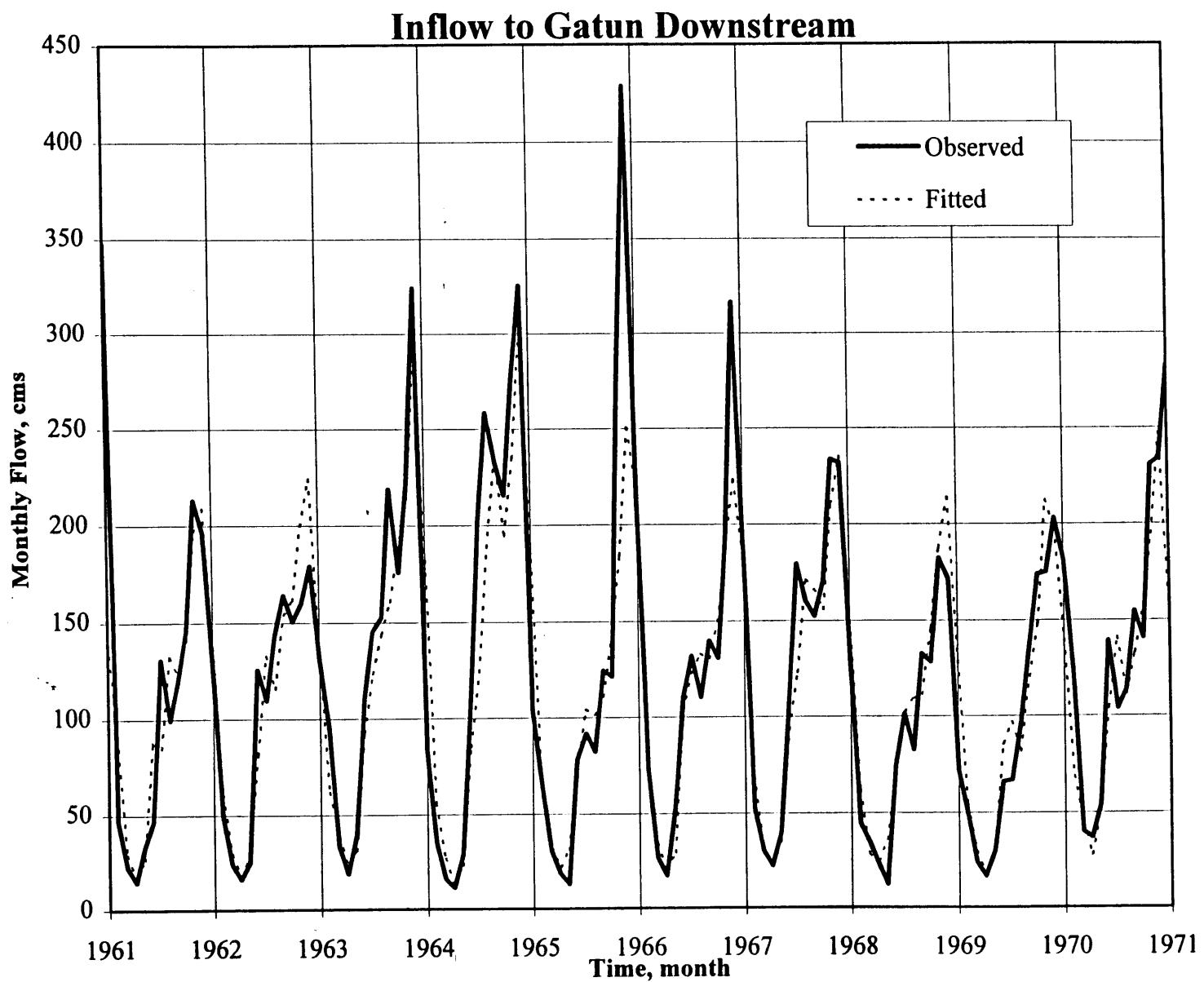


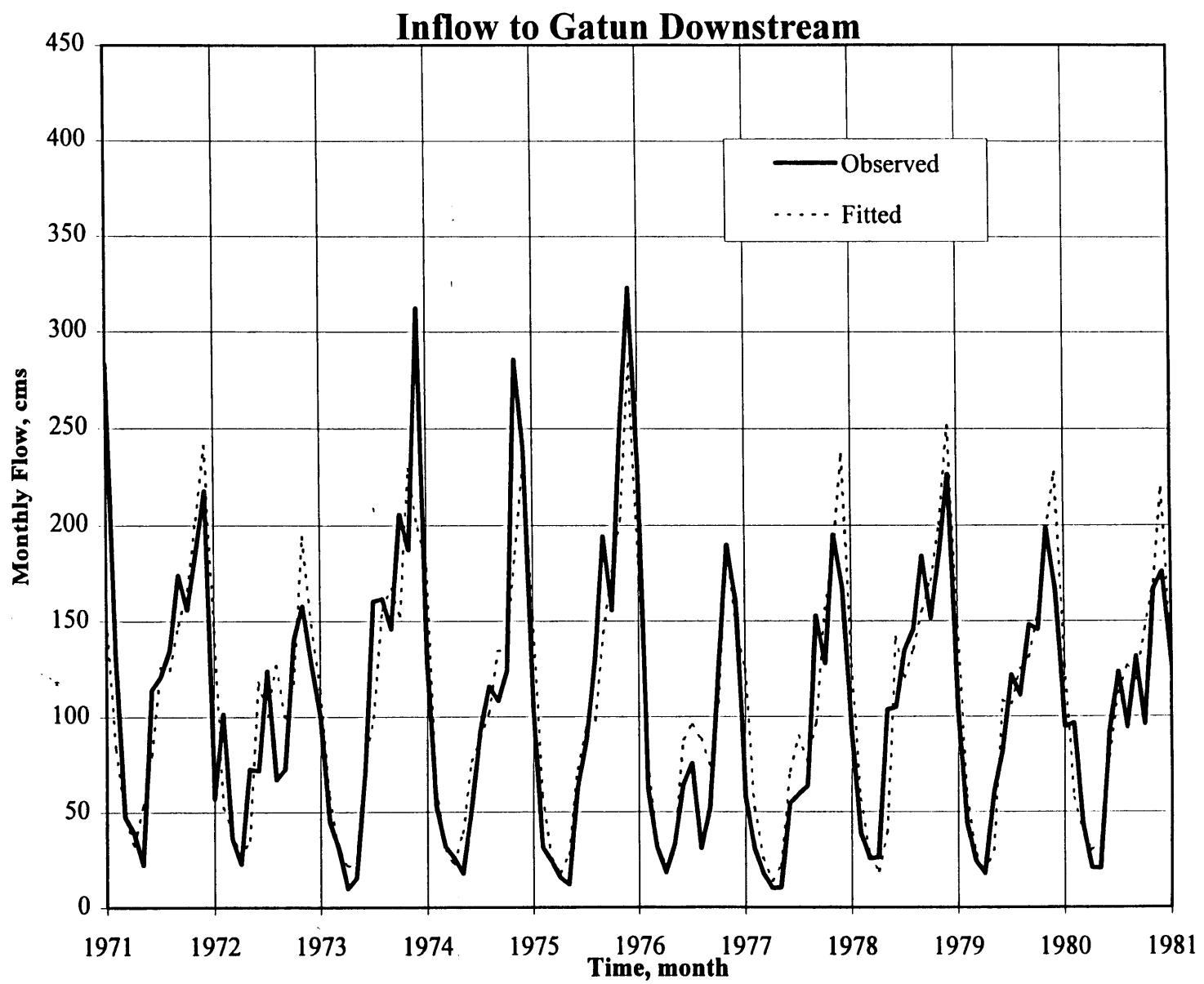
Inflow to Gatun Downstream

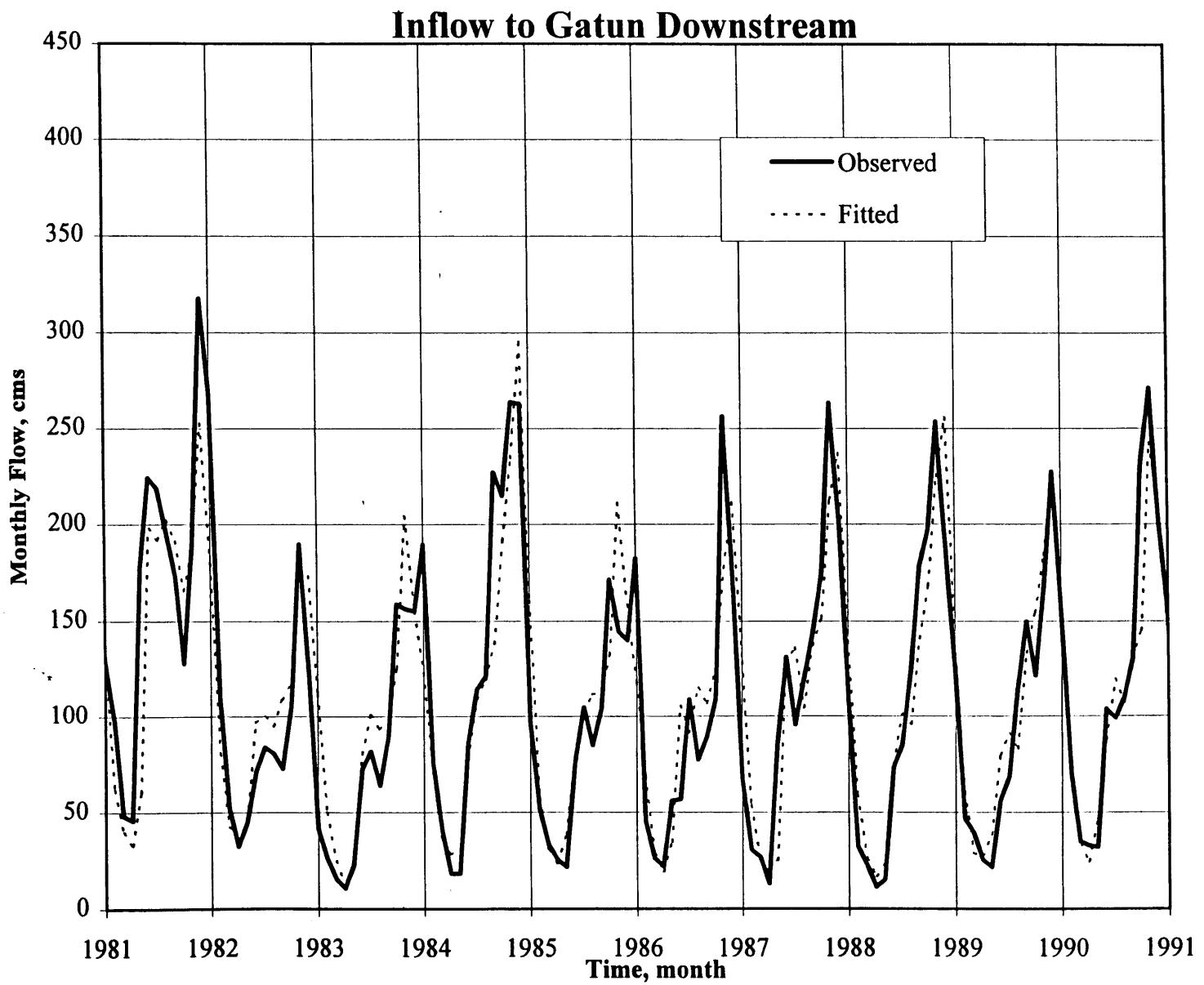


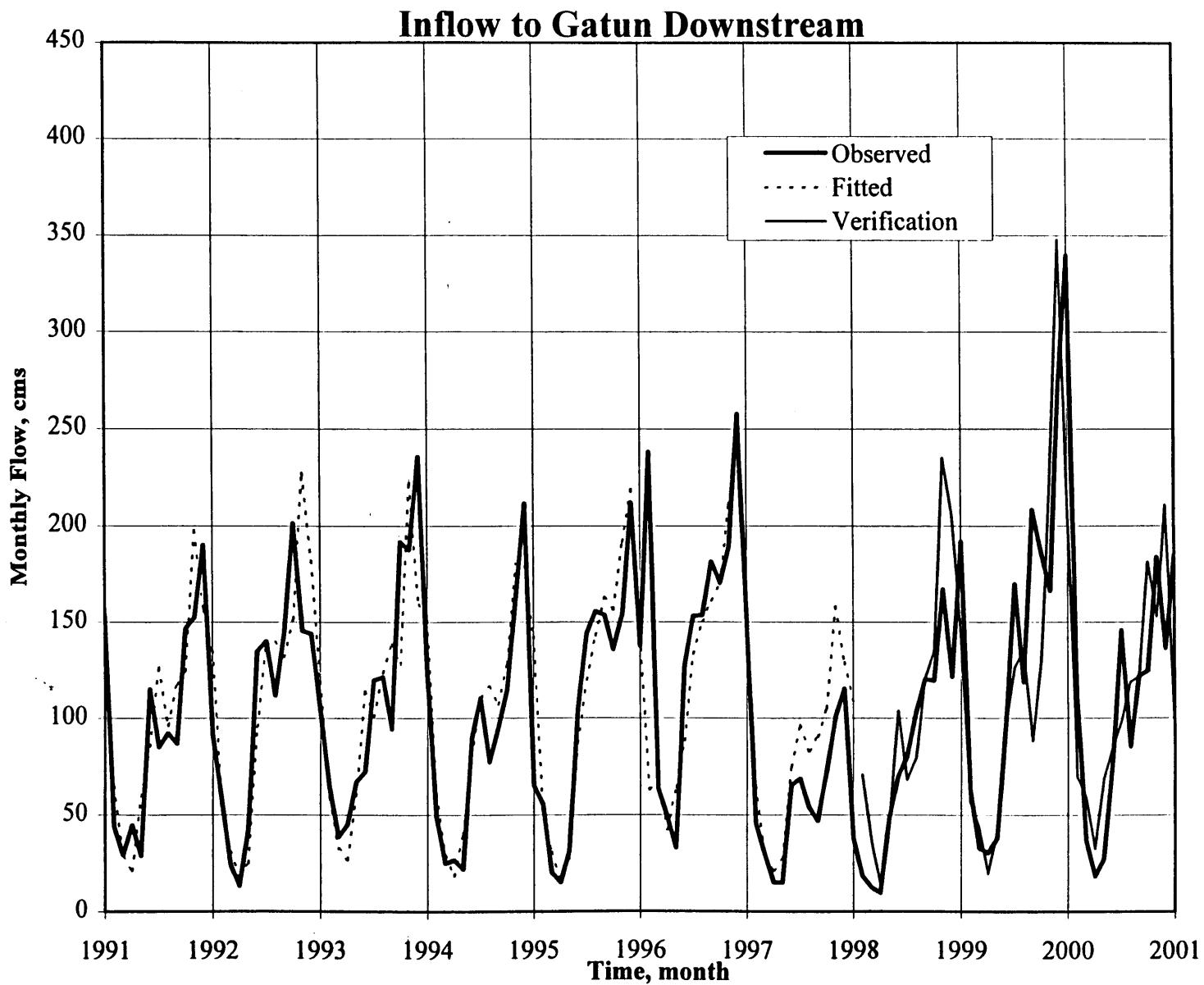
Inflow to Gatun Downstream

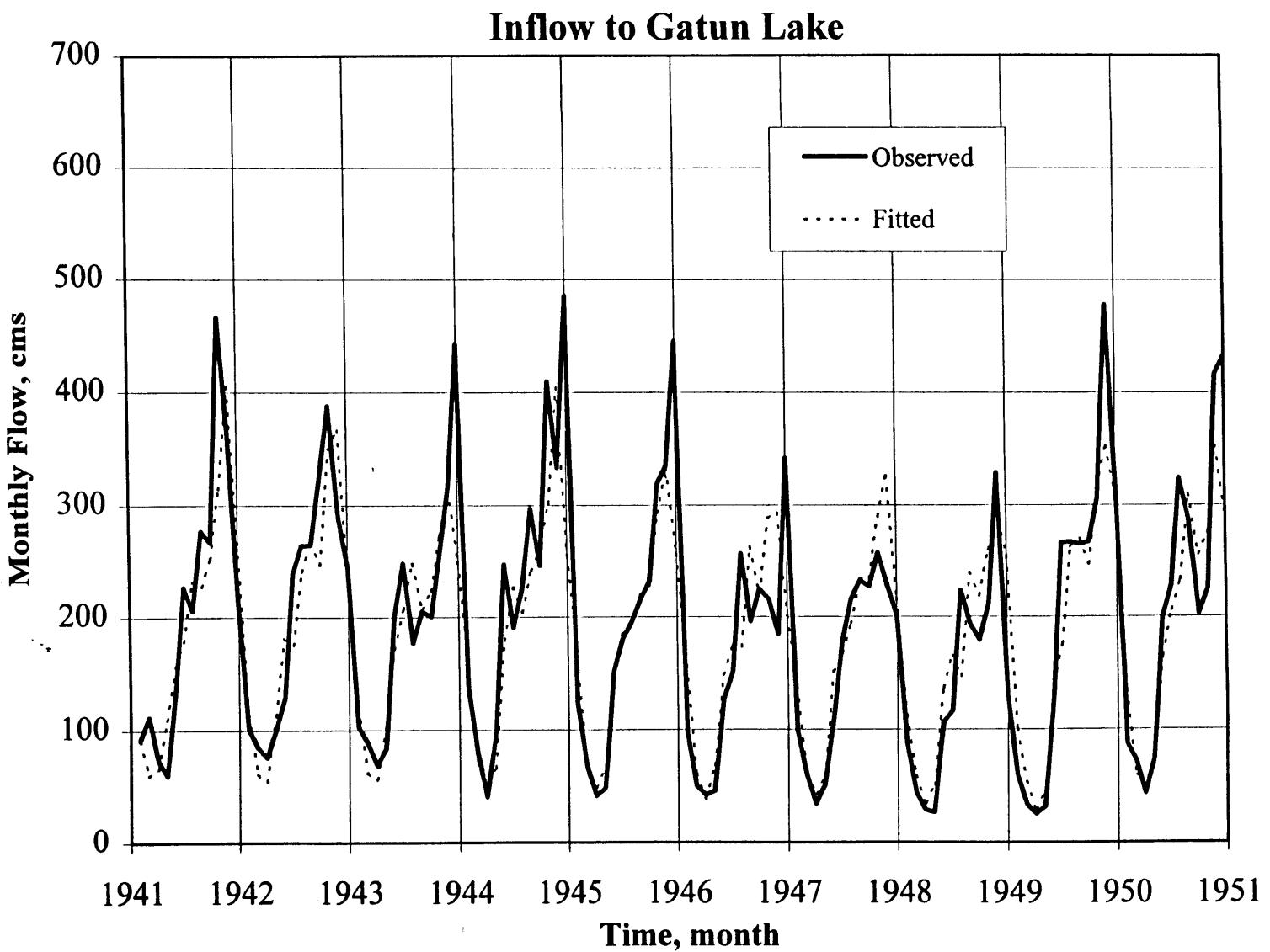


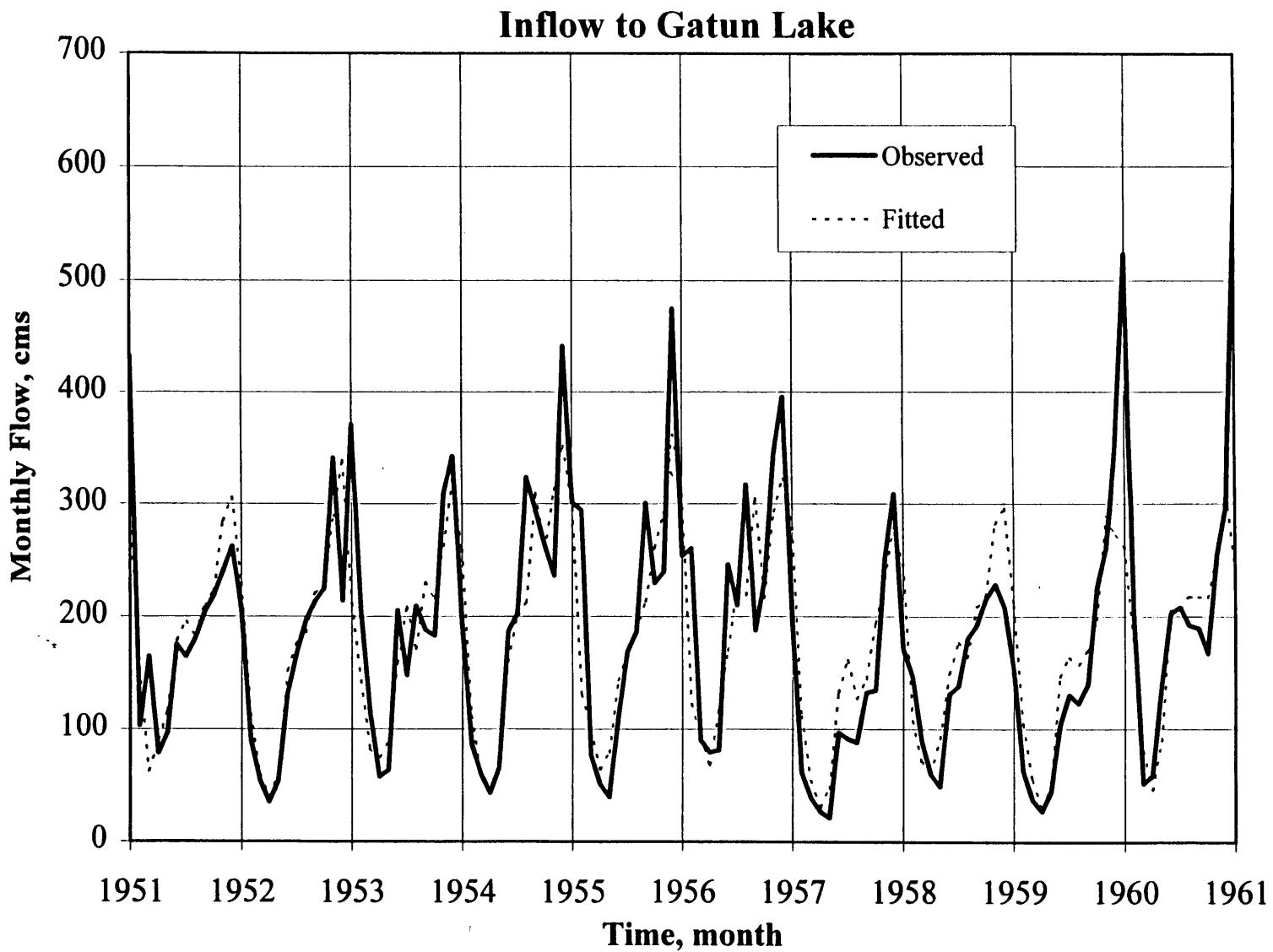




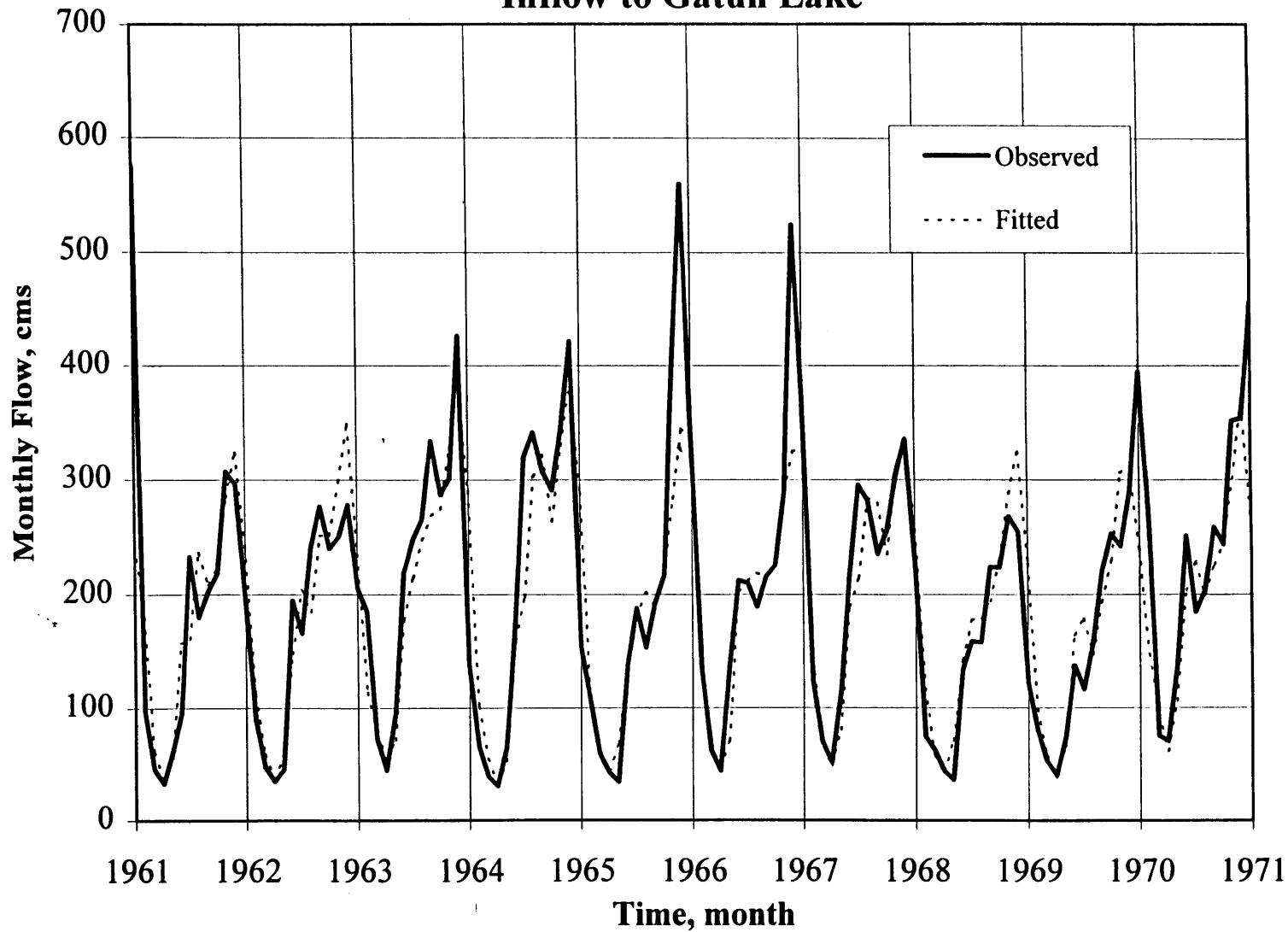




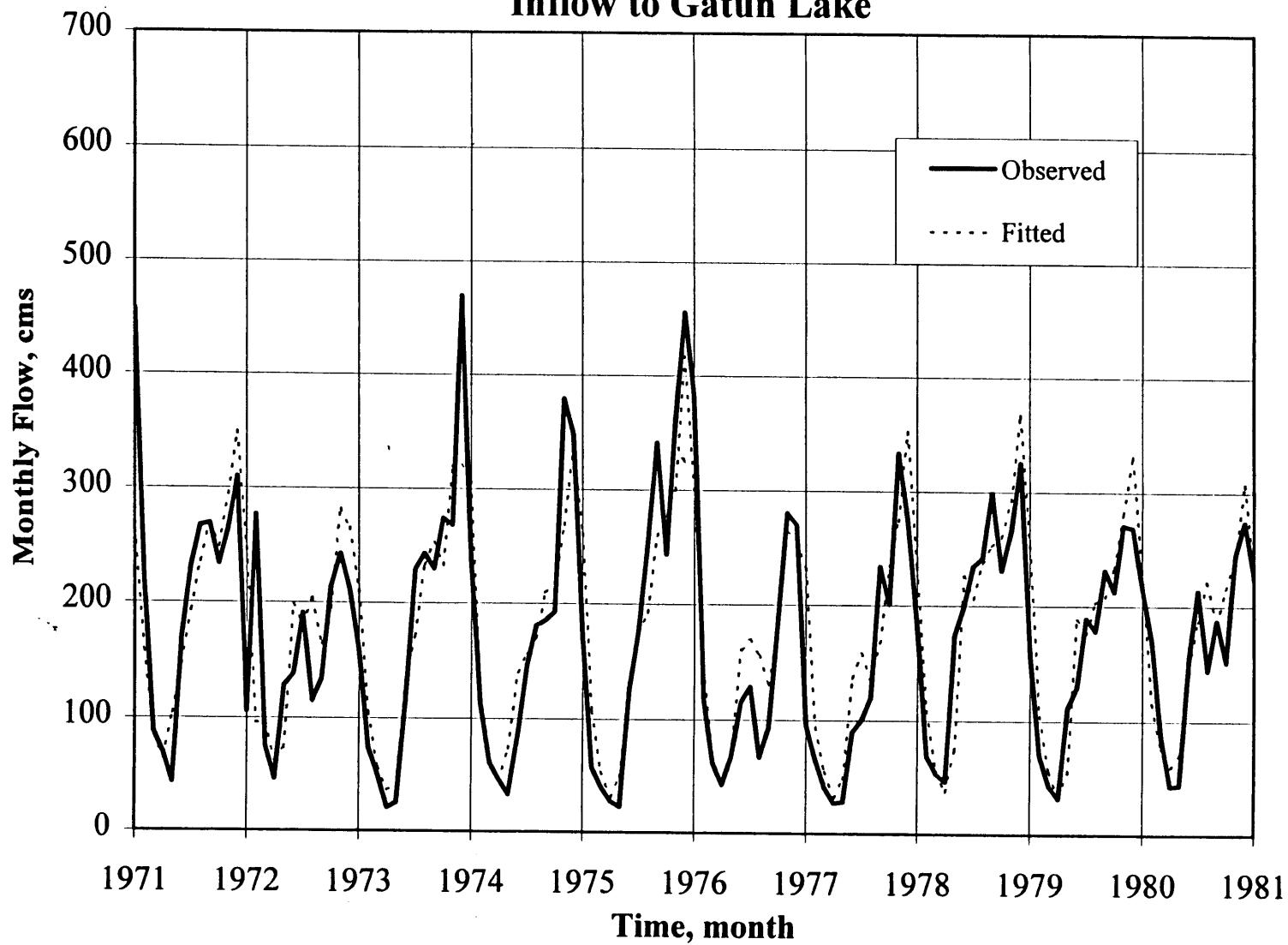


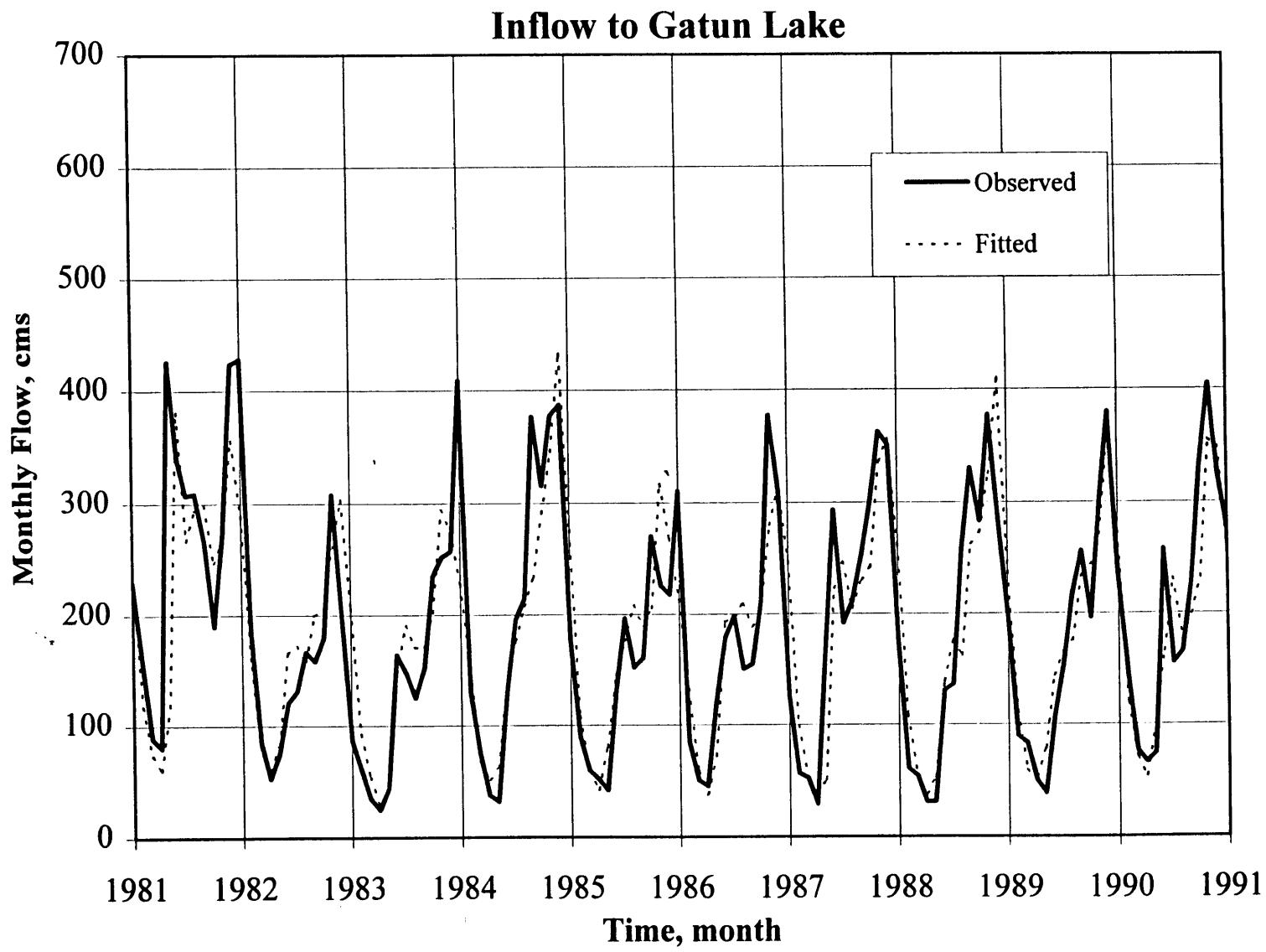


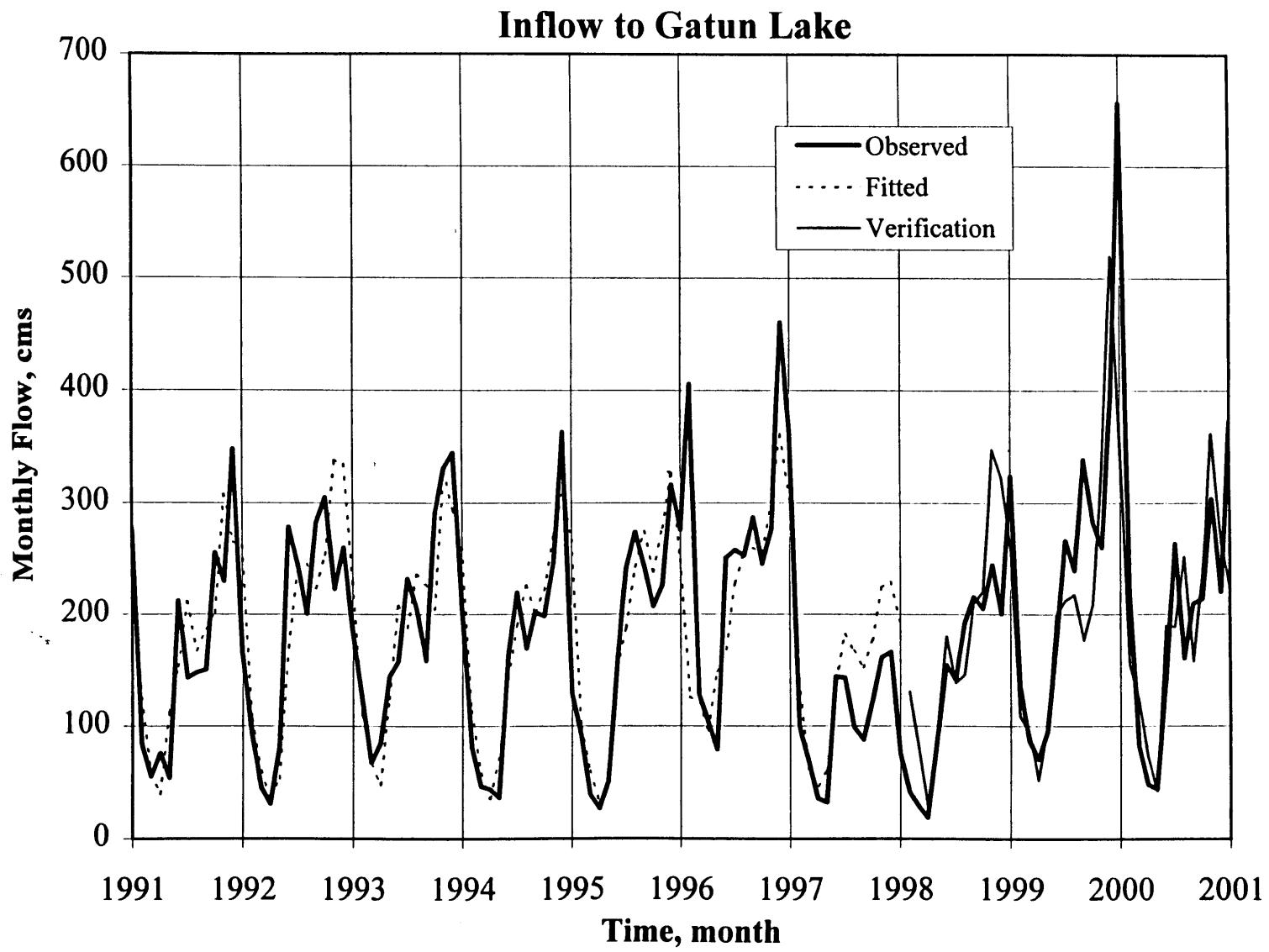
Inflow to Gatun Lake



Inflow to Gatun Lake







**PERCENTAGE DIFFERENCES BETWEEN
OBSERVED AND FITTED / VERIFICATION FLOWS**

MADDEN MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jan-41	34.0	34.0	0	Jan-61	50.5	84.5	67	Jan-81	58.9	55.7	-5
Feb-41	54.0	29.5	-45	Feb-61	23.3	32.3	38	Feb-81	40.5	33.7	-17
Mar-41	41.4	32.6	-21	Mar-61	18.3	19.3	6	Mar-81	34.3	27.7	-19
Apr-41	26.4	60.0	127	Apr-61	28.0	31.4	12	Apr-81	247.8	51.2	-79
May-41	62.7	69.5	11	May-61	48.6	70.2	44	May-81	115.2	169.1	47
Jun-41	106.1	76.7	-28	Jun-61	102.0	73.2	-28	Jun-81	88.3	89.5	1
Jul-41	81.0	101.7	26	Jul-61	80.3	99.4	24	Jul-81	112.9	91.9	-19
Aug-41	103.0	86.9	-16	Aug-61	82.0	86.4	5	Aug-81	91.8	106.8	16
Sep-41	90.6	88.4	-2	Sep-61	72.3	80.0	11	Sep-81	61.7	89.2	45
Oct-41	188.1	98.3	-48	Oct-61	93.8	87.6	-7	Oct-81	81.1	81.5	0
Nov-41	157.7	116.2	-26	Nov-61	99.8	116.2	16	Nov-81	105.6	116.2	10
Dec-41	98.5	111.2	13	Dec-61	71.1	111.2	56	Dec-81	160.5	111.2	-31
Jan-42	44.2	55.7	26	Jan-62	40.5	49.6	23	Jan-82	73.2	69.6	-5
Feb-42	33.2	31.2	-6	Feb-62	24.1	30.6	27	Feb-82	32.9	36.0	9
Mar-42	36.0	23.5	-35	Mar-62	19.2	19.1	0	Mar-82	20.5	25.0	22
Apr-42	63.3	53.3	-16	Apr-62	21.1	32.5	54	Apr-82	30.0	34.1	14
May-42	54.3	86.1	59	May-62	69.1	67.1	-3	May-82	49.5	71.1	44
Jun-42	96.0	74.6	-22	Jun-62	56.0	78.2	40	Jun-82	47.6	73.4	54
Jul-42	88.7	96.1	8	Jul-62	96.7	74.0	-23	Jul-82	86.0	69.4	-19
Aug-42	88.2	91.7	4	Aug-62	112.7	96.7	-14	Aug-82	85.4	90.0	5
Sep-42	101.8	81.0	-20	Sep-62	89.3	84.5	-5	Sep-82	73.7	74.1	1
Oct-42	130.9	104.8	-20	Oct-62	90.5	97.5	8	Oct-82	118.2	88.4	-25
Nov-42	90.7	116.2	28	Nov-62	99.1	116.2	17	Nov-82	74.9	116.2	55
Dec-42	88.8	111.2	25	Dec-62	74.9	111.2	49	Dec-82	45.9	111.2	142
Jan-43	65.8	53.6	-19	Jan-63	89.7	50.5	-44	Jan-83	34.8	44.0	26
Feb-43	45.1	34.8	-23	Feb-63	40.2	38.8	-4	Feb-83	19.2	29.7	54
Mar-43	32.7	30.2	-8	Mar-63	26.1	29.3	12	Mar-83	14.2	16.6	17
Apr-43	39.4	49.2	25	Apr-63	55.1	41.1	-25	Apr-83	21.8	26.4	21
May-43	85.1	75.4	-11	May-63	108.6	82.4	-24	May-83	91.5	67.4	-26
Jun-43	101.2	82.1	-19	Jun-63	102.2	87.9	-14	Jun-83	65.9	83.7	27
Jul-43	74.8	99.0	32	Jul-63	112.8	99.5	-12	Jul-83	61.2	79.5	30
Aug-43	93.3	83.0	-11	Aug-63	115.2	106.7	-7	Aug-83	62.7	74.5	19
Sep-43	89.2	90.0	1	Sep-63	111.1	95.7	-14	Sep-83	75.5	80.8	7
Oct-43	103.4	97.5	-6	Oct-63	79.9	110.2	38	Oct-83	95.4	89.5	-6
Nov-43	95.8	116.2	21	Nov-63	102.1	116.2	14	Nov-83	101.8	116.2	14
Dec-43	193.5	111.2	-43	Dec-63	53.5	111.2	108	Dec-83	219.2	111.2	-49
Jan-44	56.0	76.9	37	Jan-64	30.9	45.7	48	Jan-84	53.9	82.7	53
Feb-44	47.5	33.2	-30	Feb-64	23.3	29.0	25	Feb-84	34.2	32.8	-4
Mar-44	23.0	30.8	34	Mar-64	19.6	18.2	-7	Mar-84	19.5	24.5	26
Apr-44	41.5	37.2	-10	Apr-64	36.0	33.0	-8	Apr-84	13.5	32.9	144
May-44	108.2	76.3	-29	May-64	69.9	73.8	6	May-84	44.2	63.7	44
Jun-44	79.7	87.8	10	Jun-64	117.6	78.4	-33	Jun-84	81.1	72.1	-11
Jul-44	108.0	87.1	-19	Jul-64	83.0	108.1	30	Jul-84	93.4	87.9	-6
Aug-44	121.8	103.7	-15	Aug-64	74.4	88.1	18	Aug-84	149.2	94.6	-37
Sep-44	93.2	95.3	2	Sep-64	75.0	83.3	11	Sep-84	100.6	92.7	-8
Oct-44	148.4	99.8	-33	Oct-64	68.4	89.2	30	Oct-84	113.5	104.1	-8
Nov-44	146.7	116.2	-21	Nov-64	96.5	116.2	20	Nov-84	123.9	116.2	-6
Dec-44	257.0	111.2	-57	Dec-64	50.0	111.2	122	Dec-84	79.0	111.2	41
Jan-45	64.0	91.1	42	Jan-65	41.6	44.9	8	Jan-85	38.1	51.4	35

MADDEN MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Feb-45	36.3	34.5	-5	Feb-65	28.9	30.8	7	Feb-85	26.6	30.2	14
Mar-45	23.2	26.1	12	Mar-65	24.0	21.4	-11	Mar-85	26.4	20.2	-24
Apr-45	23.1	37.5	62	Apr-65	21.2	38.5	81	Apr-85	20.0	41.4	107
May-45	69.1	68.0	-2	May-65	58.7	67.2	14	May-85	55.0	66.6	21
Jun-45	77.2	78.2	1	Jun-65	96.2	75.7	-21	Jun-85	91.8	74.8	-19
Jul-45	89.7	85.7	-4	Jul-65	70.6	96.2	36	Jul-85	67.0	93.8	40
Aug-45	108.6	92.3	-15	Aug-65	68.4	80.4	17	Aug-85	56.6	78.1	38
Sep-45	89.9	86.6	-4	Sep-65	95.4	78.7	-17	Sep-85	98.5	74.9	-24
Oct-45	82.7	97.9	18	Oct-65	114.9	101.1	-12	Oct-85	81.3	102.9	27
Nov-45	78.1	116.2	49	Nov-65	131.4	116.2	-12	Nov-85	77.6	116.2	50
Dec-45	151.8	111.2	-27	Dec-65	125.0	111.2	-11	Dec-85	128.1	111.2	-13
Jan-46	40.6	67.6	67	Jan-66	59.7	61.7	3	Jan-86	39.9	62.3	56
Feb-46	28	30.6	9	Feb-66	35.6	33.8	-5	Feb-86	24.4	30.5	25
Mar-46	19	20.9	10	Mar-66	27.2	25.5	-6	Mar-86	23.5	19.2	-18
Apr-46	25.1	32.3	29	Apr-66	82.7	42.4	-49	Apr-86	63.2	37.9	-40
May-46	63.3	68.9	9	May-66	102.2	94.8	-7	May-86	121.9	86.1	-29
Jun-46	77.4	76.8	-1	Jun-66	78.5	86.3	10	Jun-86	89.0	91.2	2
Jul-46	116.5	85.8	-26	Jul-66	78.9	86.4	10	Jul-86	73.2	92.2	26
Aug-46	93.7	109.0	16	Aug-66	75.6	85.5	13	Aug-86	65.8	82.0	25
Sep-46	85.7	78.7	-8	Sep-66	95.3	85.5	-10	Sep-86	102.2	88.3	-14
Oct-46	73.4	95.4	30	Oct-66	95.7	101.0	6	Oct-86	120.7	105.0	-13
Nov-46	68.3	116.2	70	Nov-66	208.2	116.2	-44	Nov-86	138.1	116.2	-16
Dec-46	165.1	111.2	-33	Dec-66	182.7	111.2	-39	Dec-86	58.0	111.2	92
Jan-47	44.6	70.6	58	Jan-67	70.5	74.5	6	Jan-87	26.5	46.7	76
Feb-47	30	31.3	4	Feb-67	40.4	35.6	-12	Feb-87	25.9	28.3	9
Mar-47	18	22.1	23	Mar-67	29.7	28.3	-5	Mar-87	16.1	19.2	19
Apr-47	23.4	31.1	33	Apr-67	73.9	45.5	-38	Apr-87	83.8	28.7	-66
May-47	40.5	68.2	68	May-67	108.8	90.9	-16	May-87	162.1	95.3	-41
Jun-47	74.9	71.2	-5	Jun-67	116.0	87.9	-24	Jun-87	96.3	101.0	5
Jul-47	102.7	84.5	-18	Jul-67	121.3	107.2	-12	Jul-87	91.2	96.3	6
Aug-47	98.1	100.4	2	Aug-67	82.8	112.0	35	Aug-87	109.0	93.2	-14
Sep-47	75.9	77.0	1	Sep-67	84.8	88.0	4	Sep-87	125.5	105.5	-16
Oct-47	78.7	89.7	14	Oct-67	70.9	94.9	34	Oct-87	98.6	118.6	20
Nov-47	82	116.2	42	Nov-67	103.0	116.2	13	Nov-87	148.0	116.2	-21
Dec-47	97.7	111.2	14	Dec-67	97.3	111.2	14	Dec-87	68.2	111.2	63
Jan-48	36.5	55.6	52	Jan-68	30.5	55.5	82	Jan-88	28.8	49.0	70
Feb-48	19.8	29.9	51	Feb-68	28.5	29.0	2	Feb-88	31.7	28.7	-10
Mar-48	13.9	16.9	22	Mar-68	21.5	20.6	-4	Mar-88	19.6	22.0	12
Apr-48	13.8	26.0	88	Apr-68	23.8	35.4	49	Apr-88	16.0	33.0	106
May-48	38.8	63.8	65	May-68	58.6	68.3	17	May-88	57.3	64.8	13
Jun-48	61.3	70.8	16	Jun-68	57.6	75.7	31	Jun-88	51.6	75.3	46
Jul-48	104.3	76.9	-26	Jul-68	74.9	74.9	0	Jul-88	132.7	71.6	-46
Aug-48	78.4	101.4	29	Aug-68	91.5	83.0	-9	Aug-88	151.4	119.2	-21
Sep-48	73.9	69.9	-5	Sep-68	95.3	79.8	-16	Sep-88	85.9	87.7	2
Oct-48	89.7	88.6	-1	Oct-68	85.7	101.0	18	Oct-88	123.5	95.5	-23
Nov-48	108.9	116.2	7	Nov-68	83.0	116.2	40	Nov-88	100.2	116.2	16
Dec-48	65.1	111.2	71	Dec-68	50.1	111.2	122	Dec-88	75.9	111.2	47
Jan-49	32.1	48.3	50	Jan-69	30.0	44.9	50	Jan-89	43.3	50.7	17
Feb-49	19.9	29.2	47	Feb-69	29.4	28.9	-2	Feb-89	44.0	31.1	-29
Mar-49	14.2	16.7	18	Mar-69	24.0	21.0	-13	Mar-89	25.0	28.5	14

MADDEN MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Apr-49	18.3	26.4	44	Apr-69	43.6	38.5	-12	Apr-89	17.3	39.7	130
May-49	62.7	65.9	5	May-69	70.7	77.2	9	May-89	50.4	65.4	30
Jun-49	109.9	76.7	-30	Jun-69	49.4	78.6	59	Jun-89	84.8	73.7	-13
Jul-49	131.4	103.8	-21	Jul-69	61.3	70.4	15	Jul-89	102.6	89.9	-12
Aug-49	117.5	118.4	1	Aug-69	85.0	74.5	-12	Aug-89	106.3	100.4	-6
Sep-49	97.0	86.8	-11	Sep-69	78.9	80.9	2	Sep-89	74.7	82.1	10
Oct-49	112.5	102.0	-9	Oct-69	67.0	91.5	37	Oct-89	132.0	89.0	-33
Nov-49	139.2	116.2	-17	Nov-69	87.1	116.2	33	Nov-89	152.1	116.2	-24
Dec-49	130.6	111.2	-15	Dec-69	213.0	111.2	-48	Dec-89	82.7	111.2	35
Jan-50	43.6	62.9	44	Jan-70	147.1	81.3	-45	Jan-90	75.2	52.2	-31
Feb-50	39.4	31.1	-21	Feb-70	35.4	48.3	36	Feb-90	41.8	36.4	-13
Mar-50	23.7	26.4	11	Mar-70	33.9	30.2	-11	Mar-90	33.9	29.2	-14
Apr-50	47.5	38.1	-20	Apr-70	82.2	50.7	-38	Apr-90	42.5	50.7	19
May-50	104.8	79.0	-25	May-70	111.8	94.6	-15	May-90	154.2	76.7	-50
Jun-50	81.0	87.0	7	Jun-70	80.8	88.7	10	Jun-90	56.5	99.1	75
Jul-50	163.2	87.8	-46	Jul-70	89.7	87.7	-2	Jul-90	55.7	74.3	33
Aug-50	118.4	138.2	17	Aug-70	104.0	92.3	-11	Aug-90	98.0	71.0	-28
Sep-50	80.9	87.7	8	Sep-70	103.0	93.6	-9	Sep-90	101.7	100.8	-1
Oct-50	66.0	92.6	40	Oct-70	120.7	105.5	-13	Oct-90	133.1	104.7	-21
Nov-50	123.1	116.2	-6	Nov-70	119.8	116.2	-3	Nov-90	123.7	116.2	-6
Dec-50	159.0	111.2	-30	Dec-70	173.8	111.2	-36	Dec-90	121.9	111.2	-9
Jan-51	45.6	69.2	52	Jan-71	87.0	72.5	-17	Jan-91	40.0	61.0	52
Feb-51	105.0	31.5	-70	Feb-71	40.7	38.3	-6	Feb-91	26.1	30.5	17
Mar-51	54.1	56.7	5	Mar-71	30.6	29.4	-4	Mar-91	31.3	20.0	-36
Apr-51	49.3	75.7	54	Apr-71	21.0	46.6	122	Apr-91	25.4	47.5	87
May-51	73.5	79.8	9	May-71	55.4	67.1	21	May-91	97.3	69.1	-29
Jun-51	78.4	79.3	1	Jun-71	110.6	74.9	-32	Jun-91	58.0	85.1	47
Jul-51	76.6	86.4	13	Jul-71	132.4	104.2	-21	Jul-91	55.7	75.1	35
Aug-51	71.5	84.1	18	Aug-71	95.2	119.0	25	Aug-91	63.5	71.0	12
Sep-51	76.1	79.5	4	Sep-71	77.5	79.7	3	Sep-91	108.6	81.7	-25
Oct-51	70.6	89.8	27	Oct-71	77.8	90.7	17	Oct-91	77.4	108.8	41
Nov-51	73.4	116.2	58	Nov-71	92.0	116.2	26	Nov-91	157.7	116.2	-26
Dec-51	78.4	111.2	42	Dec-71	48.9	111.2	127	Dec-91	74.7	111.2	49
Jan-52	42.5	51.3	21	Jan-72	175.2	44.7	-75	Jan-92	34.8	50.4	45
Feb-52	27.1	30.9	14	Feb-72	39.1	52.9	35	Feb-92	21.6	29.7	37
Mar-52	18.3	20.6	13	Mar-72	23.4	33.5	43	Mar-92	18.0	17.7	-2
Apr-52	24.8	31.4	27	Apr-72	55.6	37.7	-32	Apr-92	39.7	31.1	-22
May-52	61.8	68.8	11	May-72	66.6	82.6	24	May-92	143.5	75.5	-47
Jun-52	62.9	76.4	22	Jun-72	67.0	77.6	16	Jun-92	104.5	96.4	-8
Jul-52	91.8	77.8	-15	Jul-72	48.1	80.1	66	Jul-92	88.7	100.8	14
Aug-52	109.8	93.6	-15	Aug-72	61.6	66.3	8	Aug-92	138.3	91.7	-34
Sep-52	91.7	83.8	-9	Sep-72	73.5	77.6	6	Sep-92	103.3	111.0	7
Oct-52	123.5	98.9	-20	Oct-72	84.8	88.3	4	Oct-92	77.5	105.7	36
Nov-52	75.4	116.2	54	Nov-72	83.8	116.2	39	Nov-92	115.9	116.2	0
Dec-52	134.3	111.2	-17	Dec-72	57.6	111.2	93	Dec-92	78.9	111.2	41
Jan-53	99.9	63.7	-36	Jan-73	29.0	46.6	61	Jan-93	59.6	51.4	-14
Feb-53	65.9	40.4	-39	Feb-73	19.0	28.7	51	Feb-93	28.9	33.8	17
Mar-53	29.3	41.7	42	Mar-73	11.1	16.2	45	Mar-93	39.8	22.4	-44
Apr-53	29.5	45.0	53	Apr-73	10.2	22.5	121	Apr-93	77.1	58.0	-25
May-53	96.2	70.9	-26	May-73	48.3	62.2	29	May-93	85.4	92.3	8

MADDEN MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

Mon-Yr	Observed	Fitted	% Diff.	Mon-Yr	Observed	Fitted	% Diff.	Mon-Yr	Observed	Fitted	% Diff.
Jun-53	67.8	84.9	25	Jun-73	68.8	73.1	6	Jun-93	112.4	82.2	-27
Jul-53	82.6	80.5	-3	Jul-73	81.4	81.1	0	Jul-93	84.4	105.2	25
Aug-53	76.4	87.9	15	Aug-73	84.1	87.1	4	Aug-93	63.9	89.0	39
Sep-53	68.9	82.9	20	Sep-73	68.6	76.5	12	Sep-93	98.4	82.7	-16
Oct-53	79.2	85.6	8	Oct-73	80.6	85.5	6	Oct-93	143.2	102.8	-28
Nov-53	105.5	116.2	10	Nov-73	157.1	116.2	-26	Nov-93	108.9	116.2	7
Dec-53	83.6	111.2	33	Dec-73	107.9	111.2	3	Dec-93	82.3	111.2	35
Jan-54	39.8	52.4	32	Jan-74	59.0	57.8	-2	Jan-94	32.2	52.1	62
Feb-54	29.6	30.5	3	Feb-74	28.5	33.7	18	Feb-94	21.5	29.2	36
Mar-54	26.3	21.6	-18	Mar-74	20.0	22.2	11	Mar-94	17.1	17.5	2
Apr-54	33.3	41.3	24	Apr-74	15.4	33.5	118	Apr-94	14.9	29.9	101
May-54	66.1	72.6	10	May-74	33.3	64.6	94	May-94	73.5	64.3	-12
Jun-54	90.1	77.5	-14	Jun-74	53.6	69.5	30	Jun-94	109.1	79.3	-27
Jul-54	98.0	92.9	-5	Jul-74	64.7	72.7	12	Jul-94	91.8	103.4	13
Aug-54	107.8	97.5	-10	Aug-74	77.3	76.7	-1	Aug-94	106.5	93.6	-12
Sep-54	89.2	86.4	-3	Sep-74	69.1	72.2	5	Sep-94	83.7	90.3	8
Oct-54	62.6	97.5	56	Oct-74	93.9	85.8	-9	Oct-94	83.7	94.3	13
Nov-54	159.4	116.2	-27	Nov-74	109.5	116.2	6	Nov-94	151.4	116.2	-23
Dec-54	160.4	111.2	-31	Dec-74	64.0	111.2	74	Dec-94	63.2	111.2	76
Jan-55	148.1	69.5	-53	Jan-75	25.9	48.0	85	Jan-95	35.8	47.9	34
Feb-55	38.4	48.4	26	Feb-75	16.0	28.2	76	Feb-95	19.0	29.8	57
Mar-55	27.9	31.7	14	Mar-75	11.9	14.6	23	Mar-95	12.0	16.5	38
Apr-55	22.4	43.3	93	Apr-75	10.8	23.5	118	Apr-95	19.4	23.6	22
May-55	42.7	67.7	59	May-75	64.4	62.5	-3	May-95	54.3	66.4	22
Jun-55	45.8	71.8	57	Jun-75	88.7	77.1	-13	Jun-95	97.5	74.6	-23
Jul-55	82.8	68.4	-17	Jul-75	123.5	92.1	-25	Jul-95	118.2	96.9	-18
Aug-55	131.9	88.0	-33	Aug-75	146.7	113.4	-23	Aug-95	89.0	110.1	24
Sep-55	74.2	85.1	15	Sep-75	87.7	93.1	6	Sep-95	71.5	78.0	9
Oct-55	61.7	88.7	44	Oct-75	110.3	96.6	-12	Oct-95	71.8	87.2	21
Nov-55	189.2	116.2	-39	Nov-75	132.6	116.2	-12	Nov-95	104.0	116.2	12
Dec-55	101.7	111.2	9	Dec-75	151.7	111.2	-27	Dec-95	138.4	111.2	-20
Jan-56	140.5	56.5	-60	Jan-76	55.3	67.6	22	Jan-96	167.8	64.6	-61
Feb-56	50.2	47.2	-6	Feb-76	29.7	33.1	11	Feb-96	64.1	51.7	-19
Mar-56	47.0	36.7	-22	Mar-76	24.5	22.5	-8	Mar-96	54.7	44.6	-18
Apr-56	47.3	66.9	41	Apr-76	34.3	39.1	14	Apr-96	46.3	76.5	65
May-56	119.3	78.9	-34	May-76	51.5	73.1	42	May-96	124.1	78.5	-37
Jun-56	92.9	90.5	-3	Jun-76	53.4	73.9	38	Jun-96	104.5	91.7	-12
Jul-56	145.7	94.4	-35	Jul-76	35.8	72.6	103	Jul-96	99.0	100.8	2
Aug-56	82.1	127.3	55	Aug-76	41.0	58.6	43	Aug-96	105.4	98.1	-7
Sep-56	85.3	84.2	-1	Sep-76	59.5	69.4	17	Sep-96	74.6	97.8	31
Oct-56	94.0	95.2	1	Oct-76	90.4	80.2	-11	Oct-96	87.4	89.0	2
Nov-56	189.2	116.2	-39	Nov-76	109.8	116.2	6	Nov-96	202.6	116.2	-43
Dec-56	108.4	111.2	3	Dec-76	37.9	111.2	194	Dec-96	211.5	111.2	-47
Jan-57	37.2	57.9	56	Jan-77	34.5	42.2	22	Jan-97	53.7	81.0	51
Feb-57	24.7	30.1	22	Feb-77	23.1	29.6	28	Feb-97	39.4	32.8	-17
Mar-57	18.0	19.2	7	Mar-77	17.0	18.4	.8	Mar-97	20.9	26.9	29
Apr-57	15.2	31.1	104	Apr-77	17.7	29.8	68	Apr-97	17.7	34.6	96
May-57	36.7	64.5	76	May-77	35.6	65.6	84	May-97	78.7	65.6	-17
Jun-57	37.4	70.3	88	Jun-77	41.4	70.0	69	Jun-97	74.4	80.6	8
Jul-57	33.7	63.7	89	Jul-77	56.6	65.9	16	Jul-97	44.5	84.2	89

MADDEN MONTHLY INFLOW, CMS
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<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Aug-57	42.0	57.3	36	Aug-77	81.1	71.6	-12	Aug-97	41.0	64.0	56
Sep-57	47.8	65.4	37	Sep-77	73.1	73.2	0	Sep-97	49.6	75.7	53
Oct-57	77.9	73.4	-6	Oct-77	138.3	88.1	-36	Oct-97	60.3	74.4	23
Nov-57	136.0	116.2	-15	Nov-77	106.7	116.2	9	Nov-97	51.0	116.2	128
Dec-57	89.8	111.2	24	Dec-77	90.0	111.2	24	Dec-97	38.3	111.2	190
Jan-58	86.1	53.8	-38	Jan-78	29.8	53.8	81	Jan-98	23.2	63.1	172
Feb-58	36.0	38.2	6	Feb-78	27.7	28.8	4	Feb-98	16.8	47.5	183
Mar-58	27.7	27.1	-2	Mar-78	20.5	20.2	-1	Mar-98	9.7	12.6	30
Apr-58	19.0	43.1	127	Apr-78	70.2	34.1	-51	Apr-98	37.9	34.9	-8
May-58	48.4	66.2	37	May-78	94.8	89.2	-6	May-98	84.6	100.0	18
Jun-58	53.2	73.2	38	Jun-78	99.8	84.5	-15	Jun-98	60.7	82.1	35
Jul-58	73.0	72.5	-1	Jul-78	96.2	98.2	2	Jul-98	88.8	50.3	-43
Aug-58	70.9	81.9	15	Aug-78	114.8	96.4	-16	Aug-98	95.5	83.4	-13
Sep-58	82.7	72.3	-13	Sep-78	79.2	94.7	20	Sep-98	85.9	82.2	-4
Oct-58	70.5	93.7	33	Oct-78	78.4	91.6	17	Oct-98	77.4	91.0	18
Nov-58	89.9	116.2	29	Nov-78	99.1	116.2	17	Nov-98	78.9	160.0	103
Dec-58	72.4	111.2	54	Dec-78	52.7	111.2	111	Dec-98	132.0	116.1	-12
Jan-59	31.5	49.9	58	Jan-79	26.1	45.5	74	Jan-99	72.2	78.0	8
Feb-59	19.9	29.1	46	Feb-79	19.3	28.2	46	Feb-99	54.2	30.6	-43
Mar-59	15.3	16.7	9	Mar-79	14.5	16.1	11	Mar-99	40.1	41.7	4
Apr-59	23.9	27.7	16	Apr-79	52.0	26.7	-49	Apr-99	57.1	42.2	-26
May-59	48.1	68.4	42	May-79	47.3	81.0	71	May-99	78.7	94.4	20
Jun-59	59.3	73.1	23	Jun-79	67.3	72.9	8	Jun-99	96.2	83.8	-13
Jul-59	55.2	75.8	37	Jul-79	67.0	80.2	20	Jul-99	120.9	105.3	-13
Aug-59	60.9	70.7	16	Aug-79	83.0	78.1	-6	Aug-99	130.5	93.5	-28
Sep-59	104.4	72.4	-31	Sep-79	67.0	77.5	16	Sep-99	96.0	71.6	-25
Oct-59	86.5	106.3	23	Oct-79	71.8	84.5	18	Oct-99	93.4	56.8	-39
Nov-59	163.9	116.2	-29	Nov-79	102.0	116.2	14	Nov-99	122.2	120.0	-2
Dec-59	227.7	111.2	-51	Dec-79	121.7	111.2	-9	Dec-99	317.2	212.0	-33
Jan-60	123.6	84.6	-32	Jan-80	73.3	60.9	-17	Jan-00	112.9	83.7	-26
Feb-60	28.2	44.4	57	Feb-80	42.9	36.0	-16	Feb-00	45.1	67.0	49
Mar-60	22.1	25.6	16	Mar-80	22.6	29.6	31	Mar-00	30.0	38.1	27
Apr-60	68.0	36.1	-47	Apr-80	23.6	36.7	56	Apr-00	17.4	26.2	51
May-60	80.4	88.2	10	May-80	62.4	68.2	9	May-00	65.9	88.7	35
Jun-60	81.3	81.0	0	Jun-80	90.2	76.6	-15	Jun-00	117.5	80.7	-31
Jul-60	82.4	88.0	7	Jul-80	49.9	92.9	86	Jul-00	75.0	103.9	38
Aug-60	77.7	87.7	13	Aug-80	56.0	67.4	20	Aug-00	87.6	66.4	-24
Sep-60	70.8	82.0	16	Sep-80	55.6	77.9	40	Sep-00	89.4	90.8	2
Oct-60	81.5	86.8	6	Oct-80	78.1	77.9	0	Oct-00	119.9	132.0	10
Nov-60	95.0	116.2	22	Nov-80	97.7	116.2	19	Nov-00	84.2	88.3	5
Dec-60	227.6	111.2	-51	Dec-80	98.5	111.2	13	Dec-00	187.4	115.6	-38

Note: The numbers in Italic face for the period Jan-97 to Dec-00 are verification flows.

GATUN DOWNSTREAM MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jan-41	57.5	57.5	0	Jan-61	46.3	91.6	98	Jan-81	97.5	61.7	-37
Feb-41	57.7	31.2	-46	Feb-61	22.3	28.9	30	Feb-81	48.2	39.4	-18
Mar-41	32.0	38.5	20	Mar-61	14.5	16.8	16	Mar-81	45.5	32.7	-28
Apr-41	33.6	45.7	36	Apr-61	33.0	26.5	-20	Apr-81	178.0	60.5	-66
May-41	72.4	88.7	23	May-61	46.6	88.2	89	May-81	224.3	197.8	-12
Jun-41	120.5	100.7	-16	Jun-61	130.7	85.1	-35	Jun-81	218.8	192.2	-12
Jul-41	124.8	124.2	0	Jul-61	99.5	132.3	33	Jul-81	195.6	202.2	3
Aug-41	174.0	140.9	-19	Aug-61	120.4	122.8	2	Aug-81	173.1	191.4	11
Sep-41	175.7	166.2	-5	Sep-61	145.5	140.4	-3	Sep-81	127.8	165.8	30
Oct-41	278.3	213.4	-23	Oct-61	213.2	197.1	-8	Oct-81	190.4	187.6	-1
Nov-41	205.5	269.2	31	Nov-61	196.3	208.9	6	Nov-81	317.8	252.6	-21
Dec-41	114.9	140.4	22	Dec-61	124.1	137.2	11	Dec-81	267.5	179.5	-33
Jan-42	56.9	60.0	5	Jan-62	49.0	61.2	25	Jan-82	110.7	80.7	-27
Feb-42	52.0	31.1	-40	Feb-62	23.6	29.4	25	Feb-82	51.8	42.2	-19
Mar-42	40.0	35.0	-13	Mar-62	16.1	17.6	9	Mar-82	32.2	34.9	8
Apr-42	36.9	54.4	48	Apr-62	24.7	28.3	14	Apr-82	44.4	45.9	3
May-42	74.2	91.2	23	May-62	125.6	82.0	-35	May-82	71.2	96.9	36
Jun-42	142.6	101.7	-29	Jun-62	109.5	132.7	21	Jun-82	83.7	99.9	19
Jul-42	175.2	141.8	-19	Jul-62	143.5	115.5	-20	Jul-82	80.4	95.1	18
Aug-42	176.2	176.8	0	Aug-62	164.0	154.2	-6	Aug-82	72.6	109.2	50
Sep-42	221.4	167.2	-24	Sep-62	150.5	161.4	7	Sep-82	105.5	117.4	11
Oct-42	257.4	238.0	-8	Oct-62	159.8	199.8	25	Oct-82	189.8	175.6	-7
Nov-42	199.6	246.0	23	Nov-62	179.0	224.4	25	Nov-82	123.6	173.3	40
Dec-42	154.1	138.4	-10	Dec-62	130.2	131.2	1	Dec-82	41.1	111.9	172
Jan-43	37.4	65.3	75	Jan-63	95.2	62.0	-35	Jan-83	26.0	49.9	92
Feb-43	43.4	27.1	-38	Feb-63	33.3	39.0	17	Feb-83	15.3	24.7	61
Mar-43	36.3	29.7	-18	Mar-63	18.8	23.6	25	Mar-83	10.5	12.5	19
Apr-43	44.6	50.4	13	Apr-63	39.2	31.2	-20	Apr-83	22.3	22.1	-1
May-43	115.9	97.0	-16	May-63	110.1	92.9	-16	May-83	72.4	80.2	11
Jun-43	146.7	126.9	-14	Jun-63	145.2	123.4	-15	Jun-83	81.5	100.7	23
Jul-43	102.2	145.0	42	Jul-63	152.5	143.8	-6	Jul-83	63.9	93.3	46
Aug-43	112.0	124.8	11	Aug-63	218.9	160.6	-27	Aug-83	89.1	97.4	9
Sep-43	111.0	136.4	23	Sep-63	175.8	187.8	7	Sep-83	158.8	125.4	-21
Oct-43	153.7	178.6	16	Oct-63	221.4	213.5	-4	Oct-83	156.3	204.3	31
Nov-43	220.6	191.6	-13	Nov-63	324.3	286.4	-12	Nov-83	155.2	154.9	0
Dec-43	249.6	145.7	-42	Dec-63	83.4	181.8	118	Dec-83	189.6	122.9	-35
Jan-44	80.3	78.3	-3	Jan-64	35.0	55.7	59	Jan-84	75.7	70.1	-7
Feb-44	31.3	35.9	15	Feb-64	15.9	26.6	67	Feb-84	40.6	34.9	-14
Mar-44	17.6	22.3	27	Mar-64	11.3	12.9	14	Mar-84	18.1	28.0	55
Apr-44	55.2	29.9	-46	Apr-64	29.0	23.0	-21	Apr-84	18.3	30.4	66
May-44	138.6	105.0	-24	May-64	111.1	85.2	-23	May-84	86.4	77.1	-11
Jun-44	110.9	140.6	27	Jun-64	201.7	124.0	-39	Jun-84	114.2	109.1	-4
Jul-44	117.5	116.6	-1	Jul-64	258.3	188.6	-27	Jul-84	121.0	119.2	-1
Aug-44	174.9	135.7	-22	Aug-64	232.9	236.1	1	Aug-84	227.1	138.2	-39
Sep-44	152.5	166.6	9	Sep-64	215.7	194.5	-10	Sep-84	214.8	191.7	-11
Oct-44	261.4	200.9	-23	Oct-64	276.6	235.0	-15	Oct-84	263.8	234.5	-11
Nov-44	186.5	272.1	46	Nov-64	325.4	304.8	-6	Nov-84	263.0	295.2	12
Dec-44	228.8	133.8	-42	Dec-64	103.6	182.2	76	Dec-84	96.5	160.5	66
Jan-45	58.9	75.4	28	Jan-65	64.6	58.4	-10	Jan-85	51.3	57.5	12

GATUN DOWNSTREAM MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Feb-45	31.8	31.5	-1	Feb-65	30.5	32.7	7	Feb-85	32.9	29.9	-9
Mar-45	18.4	22.6	23	Mar-65	18.5	21.8	18	Mar-85	25.2	23.3	-8
Apr-45	25.4	30.8	21	Apr-65	13.1	30.9	136	Apr-85	21.6	38.2	77
May-45	81.7	82.5	1	May-65	78.6	73.2	-7	May-85	74.7	79.6	7
Jun-45	102.6	106.3	4	Jun-65	91.8	104.4	14	Jun-85	104.7	102.0	-3
Jul-45	105.1	110.0	5	Jul-65	82.7	101.5	23	Jul-85	84.7	111.7	32
Aug-45	107.4	126.8	18	Aug-65	124.5	110.8	-11	Aug-85	103.7	112.3	8
Sep-45	141.5	134.2	-5	Sep-65	121.3	142.4	17	Sep-85	171.4	132.4	-23
Oct-45	236.3	195.0	-17	Oct-65	288.6	184.1	-36	Oct-85	144.4	211.1	46
Nov-45	257.2	207.9	-19	Nov-65	428.6	250.4	-42	Nov-85	140.1	158.3	13
Dec-45	293.6	158.4	-46	Dec-65	216.1	218.1	1	Dec-85	182.3	117.7	-35
Jan-46	57.2	84.2	47	Jan-66	73.0	73.7	1	Jan-86	45.0	69.1	54
Feb-46	22.2	31.1	40	Feb-66	26.7	34.4	29	Feb-86	26.1	28.6	10
Mar-46	23.3	16.8	-28	Mar-66	17.1	19.5	14	Mar-86	21.8	19.1	-12
Apr-46	21.0	36.1	72	Apr-66	52.5	29.3	-44	Apr-86	55.9	34.5	-38
May-46	63.3	79.2	25	May-66	110.1	103.0	-6	May-86	56.6	105.5	86
Jun-46	72.9	95.2	31	Jun-66	131.7	123.4	-6	Jun-86	108.9	91.1	-16
Jul-46	139.9	86.5	-38	Jul-66	110.3	133.1	21	Jul-86	77.1	115.0	49
Aug-46	102.0	151.6	49	Aug-66	139.6	130.5	-6	Aug-86	88.8	106.9	20
Sep-46	138.9	131.6	-5	Sep-66	130.7	149.7	14	Sep-86	108.9	125.2	15
Oct-46	141.7	193.6	37	Oct-66	193.5	189.2	-2	Oct-86	256.3	177.4	-31
Nov-46	115.9	167.9	45	Nov-66	316.5	223.5	-29	Nov-86	171.3	211.6	24
Dec-46	176.9	109.3	-38	Dec-66	187.5	179.1	-5	Dec-86	67.0	128.5	92
Jan-47	54.7	68.4	25	Jan-67	52.6	69.8	33	Jan-87	30.5	53.5	75
Feb-47	30.2	30.6	1	Feb-67	30.1	30.2	0	Feb-87	26.7	25.6	-4
Mar-47	26.3	21.7	-18	Mar-67	22.2	21.6	-3	Mar-87	13.1	19.5	49
Apr-47	27.9	39.4	41	Apr-67	39.6	34.9	-12	Apr-87	84.7	25.0	-71
May-47	69.5	84.4	21	May-67	109.6	93.2	-15	May-87	131.1	127.3	-3
Jun-47	102.9	98.9	-4	Jun-67	179.3	123.1	-31	Jun-87	95.5	136.0	42
Jul-47	112.6	110.3	-2	Jul-67	160.2	170.9	7	Jul-87	119.7	104.4	-13
Aug-47	134.3	132.2	-2	Aug-67	152.4	166.1	9	Aug-87	143.3	137.2	-4
Sep-47	150.7	147.1	-2	Sep-67	170.7	155.8	-9	Sep-87	174.7	151.4	-13
Oct-47	178.4	199.9	12	Oct-67	233.9	210.7	-10	Oct-87	263.4	212.9	-19
Nov-47	145.4	205.7	41	Nov-67	232.2	235.2	1	Nov-87	202.9	237.1	17
Dec-47	103.8	119.5	15	Dec-67	128.5	149.7	17	Dec-87	107.6	139.5	30
Jan-48	51.0	58.5	15	Jan-68	44.4	61.8	39	Jan-88	32.2	59.0	83
Feb-48	24.1	29.9	24	Feb-68	34.5	28.5	-17	Feb-88	22.4	26.0	16
Mar-48	15.2	17.9	18	Mar-68	23.0	24.3	6	Mar-88	11.3	16.9	49
Apr-48	13.2	27.3	107	Apr-68	12.4	35.8	189	Apr-88	15.1	23.0	52
May-48	67.4	73.3	9	May-68	75.1	72.7	-3	May-88	73.1	74.7	2
Jun-48	54.9	97.6	78	Jun-68	101.2	102.3	1	Jun-88	84.7	101.1	19
Jul-48	118.8	72.2	-39	Jul-68	83.0	108.9	31	Jul-88	124.8	95.8	-23
Aug-48	115.1	136.6	19	Aug-68	132.5	111.1	-16	Aug-88	178.6	140.9	-21
Sep-48	105.0	137.9	31	Sep-68	128.3	146.2	14	Sep-88	197.2	168.4	-15
Oct-48	121.4	175.3	44	Oct-68	182.2	187.9	3	Oct-88	253.6	225.0	-11
Nov-48	220.0	184.2	-16	Nov-68	171.5	213.9	25	Nov-88	184.0	255.7	39
Dec-48	64.5	145.5	126	Dec-68	71.9	128.6	79	Dec-88	121.2	133.0	10
Jan-49	27.8	53.1	91	Jan-69	49.7	54.1	9	Jan-89	46.4	60.8	31
Feb-49	14.2	25.1	77	Feb-69	23.7	29.6	25	Feb-89	39.2	28.9	-26
Mar-49	11.1	11.9	7	Mar-69	16.6	17.7	6	Mar-89	25.3	27.2	7

GATUN DOWNSTREAM MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Apr-49	13.6	22.8	67	Apr-69	29.8	28.8	-3	Apr-89	21.6	38.3	77
May-49	65.8	73.6	12	May-69	66.2	85.8	30	May-89	56.1	79.6	42
Jun-49	156.2	96.7	-38	Jun-69	67.2	96.9	44	Jun-89	68.4	90.8	33
Jul-49	135.4	152.6	13	Jul-69	96.0	82.0	-15	Jul-89	114.3	82.9	-27
Aug-49	147.3	148.4	1	Aug-69	136.4	120.3	-12	Aug-89	149.8	133.4	-11
Sep-49	170.0	153.4	-10	Sep-69	173.8	148.1	-15	Sep-89	121.4	154.6	27
Oct-49	193.8	210.3	9	Oct-69	175.1	212.4	21	Oct-89	167.5	184.2	10
Nov-49	338.5	215.7	-36	Nov-69	203.2	197.6	-3	Nov-89	227.5	225.9	-1
Dec-49	193.6	186.7	-4	Dec-69	181.5	139.6	-23	Dec-89	152.0	148.1	-3
Jan-50	43.8	70.7	61	Jan-70	122.4	69.0	-44	Jan-90	69.5	65.0	-6
Feb-50	32.8	28.4	-14	Feb-70	40.0	44.6	11	Feb-90	34.6	33.7	-3
Mar-50	19.9	23.3	17	Mar-70	36.9	27.7	-25	Mar-90	32.6	24.4	-25
Apr-50	25.9	32.4	25	Apr-70	54.2	51.1	-6	Apr-90	31.8	46.3	46
May-50	94.3	82.9	-12	May-70	139.3	104.3	-25	May-90	103.7	87.3	-16
Jun-50	147.1	113.9	-23	Jun-70	104.0	141.0	36	Jun-90	98.9	119.5	21
Jul-50	161.0	145.3	-10	Jul-70	113.7	111.2	-2	Jul-90	109.8	107.1	-2
Aug-50	167.4	166.7	0	Aug-70	154.6	133.0	-14	Aug-90	130.2	130.2	0
Sep-50	121.6	163.0	34	Sep-70	140.7	156.9	11	Sep-90	229.8	145.1	-37
Oct-50	159.5	184.3	16	Oct-70	231.1	194.6	-16	Oct-90	271.1	242.5	-11
Nov-50	293.7	238.1	-19	Nov-70	234.3	247.3	6	Nov-90	199.4	208.1	4
Dec-50	273.7	171.1	-37	Dec-70	283.1	150.5	-47	Dec-90	151.5	138.3	-9
Jan-51	57.9	81.5	41	Jan-71	131.9	82.8	-37	Jan-91	43.7	64.9	49
Feb-51	59.4	31.3	-47	Feb-71	47.5	46.5	-2	Feb-91	29.3	28.3	-3
Mar-51	24.6	39.5	61	Mar-71	38.8	32.2	-17	Mar-91	44.5	21.1	-53
Apr-51	47.2	37.6	-20	Apr-71	22.3	53.1	138	Apr-91	28.9	59.4	105
May-51	101.2	99.0	-2	May-71	114.2	80.2	-30	May-91	114.9	85.1	-26
Jun-51	85.9	118.0	37	Jun-71	120.8	125.9	4	Jun-91	85.1	126.3	48
Jul-51	103.6	96.8	-7	Jul-71	134.4	124.5	-7	Jul-91	92.2	96.2	4
Aug-51	132.0	125.8	-5	Aug-71	173.9	147.7	-15	Aug-91	86.9	117.6	35
Sep-51	142.6	146.0	2	Sep-71	156.0	166.1	6	Sep-91	146.6	124.3	-15
Oct-51	169.3	195.6	16	Oct-71	186.0	202.8	9	Oct-91	152.4	197.7	30
Nov-51	188.5	203.2	8	Nov-71	217.7	241.0	11	Nov-91	190.2	156.0	-18
Dec-51	127.2	134.5	-6	Dec-71	57.0	144.7	154	Dec-91	90.9	135.1	49
Jan-52	47.9	61.6	29	Jan-72	101.5	52.1	-49	Jan-92	57.9	56.7	-2
Feb-52	26.9	29.2	9	Feb-72	36.0	40.3	12	Feb-92	24.0	31.3	30
Mar-52	16.5	19.6	19	Mar-72	22.8	25.2	11	Mar-92	13.2	17.9	35
Apr-52	28.5	28.7	1	Apr-72	72.6	35.6	-51	Apr-92	42.5	25.1	-41
May-52	70.1	84.8	21	May-72	71.6	118.2	65	May-92	134.7	95.4	-29
Jun-52	104.0	99.3	-5	Jun-72	123.9	100.2	-19	Jun-92	139.9	138.2	-1
Jul-52	104.5	111.2	6	Jul-72	67.0	126.9	89	Jul-92	111.7	139.6	25
Aug-52	103.7	126.4	22	Aug-72	72.5	99.6	37	Aug-92	143.6	131.5	-8
Sep-52	133.0	132.4	0	Sep-72	140.0	117.4	-16	Sep-92	201.4	151.6	-25
Oct-52	217.0	190.4	-12	Oct-72	157.8	194.2	23	Oct-92	145.5	227.2	56
Nov-52	138.6	200.5	45	Nov-72	127.2	148.0	16	Nov-92	143.9	182.2	27
Dec-52	236.3	117.2	-50	Dec-72	99.7	113.2	14	Dec-92	103.9	119.0	15
Jan-53	105.5	76.5	-28	Jan-73	44.9	57.9	29	Jan-93	64.5	58.5	-9
Feb-53	48.5	41.1	-15	Feb-73	30.6	28.6	-7	Feb-93	38.7	32.6	-16
Mar-53	28.0	32.9	17	Mar-73	9.9	21.9	121	Mar-93	44.9	26.9	-40
Apr-53	33.8	41.3	22	Apr-73	15.3	21.5	40	Apr-93	67.0	59.8	-11
May-53	109.0	88.9	-18	May-73	70.7	74.9	6	May-93	72.2	113.9	58

GATUN DOWNSTREAM MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jun-53	80.3	122.7	53	Jun-73	160.3	99.6	-38	Jun-93	119.5	100.5	-16
Jul-53	126.8	92.4	-27	Jul-73	161.6	155.8	-4	Jul-93	121.3	123.4	2
Aug-53	111.4	142.3	28	Aug-73	145.8	167.1	15	Aug-93	94.4	138.4	47
Sep-53	114.0	136.1	19	Sep-73	205.5	152.6	-26	Sep-93	191.8	127.9	-33
Oct-53	229.5	180.2	-21	Oct-73	187.3	229.5	23	Oct-93	187.7	222.1	18
Nov-53	236.3	219.1	-7	Nov-73	312.3	198.6	-36	Nov-93	235.6	159.2	-32
Dec-53	110.3	151.2	37	Dec-73	128.9	177.6	38	Dec-93	122.4	150.9	23
Jan-54	46.3	59.3	28	Jan-74	52.9	61.9	17	Jan-94	48.9	61.0	25
Feb-54	30.4	28.9	-5	Feb-74	31.9	30.2	-5	Feb-94	25.1	29.4	17
Mar-54	16.6	21.8	31	Mar-74	26.0	22.7	-13	Mar-94	26.8	18.5	-31
Apr-54	31.6	28.8	-9	Apr-74	17.8	39.1	120	Apr-94	22.1	40.0	81
May-54	120.4	87.2	-28	May-74	51.9	76.8	48	May-94	89.4	80.0	-11
Jun-54	111.9	129.6	16	Jun-74	92.6	88.3	-5	Jun-94	110.3	110.9	1
Jul-54	225.4	117.4	-48	Jul-74	115.8	102.1	-12	Jul-94	77.3	116.1	50
Aug-54	185.7	212.6	15	Aug-74	108.2	134.5	24	Aug-94	95.1	107.0	13
Sep-54	173.7	171.8	-1	Sep-74	123.8	134.6	9	Sep-94	114.6	128.3	12
Oct-54	173.5	212.3	22	Oct-74	285.7	185.5	-35	Oct-94	163.6	180.5	10
Nov-54	281.9	239.9	-15	Nov-74	238.9	234.2	-2	Nov-94	211.6	179.4	-15
Dec-54	140.6	167.0	19	Dec-74	104.3	152.1	46	Dec-94	65.0	142.6	119
Jan-55	145.9	63.5	-57	Jan-75	31.5	58.5	86	Jan-95	55.5	53.2	-4
Feb-55	38.3	49.4	29	Feb-75	24.2	25.8	7	Feb-95	20.1	30.8	53
Mar-55	22.7	26.6	17	Mar-75	15.6	18.0	15	Mar-95	15.2	15.5	2
Apr-55	16.7	35.5	112	Apr-75	12.1	27.7	129	Apr-95	31.1	27.3	-12
May-55	67.9	75.9	12	May-75	61.8	72.5	17	May-95	103.6	86.8	-16
Jun-55	122.4	97.9	-20	Jun-75	87.4	94.3	8	Jun-95	144.0	119.5	-17
Jul-55	103.4	125.7	22	Jul-75	128.9	98.0	-24	Jul-95	155.6	142.9	-8
Aug-55	168.6	125.6	-25	Aug-75	194.3	143.8	-26	Aug-95	153.7	162.8	6
Sep-55	155.4	163.6	5	Sep-75	155.7	175.9	13	Sep-95	135.7	156.4	15
Oct-55	177.6	202.5	14	Oct-75	250.6	202.6	-19	Oct-95	154.3	191.9	24
Nov-55	285.7	233.4	-18	Nov-75	322.9	283.7	-12	Nov-95	212.1	218.9	3
Dec-55	151.9	168.4	11	Dec-75	231.7	181.3	-22	Dec-95	137.6	142.7	4
Jan-56	119.6	65.0	-46	Jan-76	62.2	75.8	22	Jan-96	238.1	63.1	-74
Feb-56	39.9	44.0	10	Feb-76	31.7	32.2	1	Feb-96	63.7	68.4	7
Mar-56	32.3	27.6	-15	Mar-76	18.4	22.6	23	Mar-96	48.8	42.2	-14
Apr-56	33.9	46.0	36	Apr-76	33.0	30.8	-7	Apr-96	33.1	64.1	94
May-56	126.6	88.9	-30	May-76	64.0	88.2	38	May-96	126.5	88.3	-30
Jun-56	117.3	133.3	14	Jun-76	75.3	95.6	27	Jun-96	153.1	133.3	-13
Jul-56	171.1	121.7	-29	Jul-76	31.2	88.4	183	Jul-96	153.6	150.1	-2
Aug-56	105.6	173.9	65	Aug-76	52.1	74.1	42	Aug-96	181.5	161.4	-11
Sep-56	146.7	133.3	-9	Sep-76	125.9	107.6	-15	Sep-96	170.8	169.8	-1
Oct-56	248.5	197.8	-20	Oct-76	189.9	186.6	-2	Oct-96	189.2	210.8	11
Nov-56	206.4	209.1	1	Nov-76	160.0	147.9	-8	Nov-96	257.7	243.3	-6
Dec-56	86.1	140.8	63	Dec-76	57.5	124.6	117	Dec-96	151.5	158.6	5
Jan-57	23.7	56.1	136	Jan-77	30.7	52.2	70	Jan-97	45.6	64.9	42
Feb-57	13.8	24.2	76	Feb-77	17.7	25.7	45	Feb-97	29.8	28.7	-4
Mar-57	8.3	11.6	40	Mar-77	10.2	14.0	37	Mar-97	15.1	21.4	42
Apr-57	6.1	19.7	223	Apr-77	10.4	21.8	109	Apr-97	15.1	27.2	80
May-57	59.9	67.9	13	May-77	54.2	71.2	31	May-97	65.3	74.7	14
Jun-57	53.6	93.1	74	Jun-77	59.1	89.7	52	Jun-97	68.4	96.4	41
Jul-57	54.2	71.2	31	Jul-77	63.2	75.5	20	Jul-97	53.9	82.9	54

GATUN DOWNSTREAM MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Aug-57	90.3	90.5	0	Aug-77	152.7	96.9	-37	Aug-97	46.9	90.3	93
Sep-57	87.1	126.0	45	Sep-77	127.8	156.0	22	Sep-97	72.9	105.1	44
Oct-57	172.9	165.7	-4	Oct-77	195.1	187.6	-4	Oct-97	101.0	158.0	56
Nov-57	172.8	189.0	9	Nov-77	167.5	236.6	41	Nov-97	115.1	129.0	12
Dec-57	81.1	129.1	59	Dec-77	90.9	127.2	40	Dec-97	37.8	109.0	188
Jan-58	60.3	55.4	-8	Jan-78	39.0	56.7	45	Jan-98	18.5	70.7	282
Feb-58	53.1	31.8	-40	Feb-78	25.7	27.4	7	Feb-98	12.5	36.8	195
Mar-58	32.0	35.7	11	Mar-78	26.3	18.9	-28	Mar-98	9.6	13.9	46
Apr-58	30.0	45.7	52	Apr-78	103.6	39.4	-62	Apr-98	48.0	45.8	-5
May-58	82.7	86.0	4	May-78	105.0	141.6	35	May-98	69.8	103.8	49
Jun-58	84.9	106.9	26	Jun-78	134.6	120.3	-11	Jun-98	80.3	68.1	-15
Jul-58	106.9	96.0	-10	Jul-78	145.5	135.4	-7	Jul-98	103.1	79.5	-23
Aug-58	121.1	128.1	6	Aug-78	184.1	155.6	-15	Aug-98	120.0	120.7	1
Sep-58	132.4	140.8	6	Sep-78	151.6	171.0	13	Sep-98	119.3	134.9	13
Oct-58	157.3	190.1	21	Oct-78	186.1	200.4	8	Oct-98	167.1	235.1	41
Nov-58	118.1	192.9	63	Nov-78	226.3	251.6	11	Nov-98	121.4	205.2	69
Dec-58	79.5	110.0	38	Dec-78	103.4	147.7	43	Dec-98	192.0	140.4	-27
Jan-59	30.9	55.2	79	Jan-79	43.6	58.4	34	Jan-99	63.2	56.5	-11
Feb-59	17.0	25.7	51	Feb-79	24.1	28.3	18	Feb-99	32.9	43.7	33
Mar-59	11.4	13.6	19	Mar-79	17.8	17.9	1	Mar-99	30.5	19.7	-35
Apr-59	20.5	23.1	13	Apr-79	59.7	30.1	-50	Apr-99	37.9	41.2	9
May-59	55.0	78.8	43	May-79	82.0	108.4	32	May-99	97.3	96.4	-1
Jun-59	70.8	90.2	27	Jun-79	121.7	106.4	-13	Jun-99	169.8	126.4	-26
Jul-59	67.4	84.8	26	Jul-79	111.2	125.2	13	Jul-99	118.6	135.2	14
Aug-59	78.7	99.9	27	Aug-79	148.1	131.2	-11	Aug-99	208.3	88.2	-58
Sep-59	120.3	120.4	0	Sep-79	145.5	153.7	6	Sep-99	186.2	130.4	-30
Oct-59	173.1	183.6	6	Oct-79	198.7	197.1	-1	Oct-99	166.4	223.5	34
Nov-59	185.5	166.6	-10	Nov-79	166.1	227.4	37	Nov-99	272.3	347.8	28
Dec-59	295.5	133.5	-55	Dec-79	94.7	126.7	34	Dec-99	339.7	207.7	-39
Jan-60	72.8	84.5	16	Jan-80	96.5	57.2	-41	Jan-00	109.7	69.3	-37
Feb-60	23.4	34.3	47	Feb-80	43.9	39.2	-11	Feb-00	36.6	58.9	61
Mar-60	36.5	17.5	-52	Mar-80	20.8	30.0	44	Mar-00	18.4	32.5	77
Apr-60	71.2	50.6	-29	Apr-80	20.6	33.4	62	Apr-00	27.2	68.6	152
May-60	122.0	117.1	-4	May-80	92.0	78.9	-14	May-00	77.1	84.7	10
Jun-60	126.9	130.6	3	Jun-80	123.4	112.5	-9	Jun-00	145.7	98.6	-32
Jul-60	109.6	129.3	18	Jul-80	94.3	126.5	34	Jul-00	85.2	118.5	39
Aug-60	111.5	130.0	17	Aug-80	131.4	119.1	-9	Aug-00	121.7	121.4	0
Sep-60	96.2	136.1	42	Sep-80	95.9	145.7	52	Sep-00	124.6	181.4	46
Oct-60	171.9	170.6	-1	Oct-80	166.7	170.4	2	Oct-00	183.9	152.6	-17
Nov-60	202.7	203.7	0	Nov-80	176.0	219.1	24	Nov-00	136.4	210.7	54
Dec-60	347.6	139.5	-60	Dec-80	127.9	130.2	2	Dec-00	185.1	92.9	-50

Note: The numbers in Italic face for the period Jan-97 to Dec-00 are verification flows.

GATUN TOTAL MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jan-41	91.5	91.5	0	Jan-61	96.8	179.6	86	Jan-81	156.4	117.4	-25
Feb-41	111.8	60.0	-46	Feb-61	45.6	61.1	34	Feb-81	88.7	72.8	-18
Mar-41	73.4	65.9	-10	Mar-61	32.8	36.3	11	Mar-81	79.9	60.0	-25
Apr-41	60.0	109.2	82	Apr-61	61.0	55.7	-9	Apr-81	425.7	117.8	-72
May-41	135.1	156.5	16	May-61	95.2	157.1	65	May-81	339.5	380.7	12
Jun-41	226.6	178.0	-21	Jun-61	232.8	160.6	-31	Jun-81	307.1	266.8	-13
Jul-41	205.7	231.4	13	Jul-61	179.8	236.2	31	Jul-81	308.5	293.4	-5
Aug-41	277.0	227.1	-18	Aug-61	202.4	209.0	3	Aug-81	265.0	298.8	13
Sep-41	266.4	251.6	-6	Sep-61	217.8	221.9	2	Sep-81	189.5	246.8	30
Oct-41	466.4	314.5	-33	Oct-61	307.0	284.1	-7	Oct-81	271.5	266.4	-2
Nov-41	363.2	405.1	12	Nov-61	296.1	323.6	9	Nov-81	423.4	355.6	-16
Dec-41	213.4	266.8	25	Dec-61	195.2	242.0	24	Dec-81	428.0	289.1	-32
Jan-42	101.1	115.0	14	Jan-62	89.5	111.8	25	Jan-82	183.9	153.3	-17
Feb-42	85.3	61.9	-27	Feb-62	47.7	59.7	25	Feb-82	84.7	78.1	-8
Mar-42	76.0	54.6	-28	Mar-62	35.2	36.8	4	Mar-82	52.7	60.1	14
Apr-42	100.2	112.7	12	Apr-62	45.8	58.9	29	Apr-82	74.4	82.0	10
May-42	128.5	181.1	41	May-62	194.7	147.7	-24	May-82	120.7	165.3	37
Jun-42	238.6	175.1	-27	Jun-62	165.6	203.9	23	Jun-82	131.3	171.7	31
Jul-42	263.9	240.7	-9	Jul-62	240.3	184.5	-23	Jul-82	166.4	158.1	-5
Aug-42	264.3	267.7	1	Aug-62	276.7	251.2	-9	Aug-82	158.0	199.7	26
Sep-42	323.2	246.5	-24	Sep-62	239.8	251.4	5	Sep-82	179.2	204.3	14
Oct-42	388.3	349.9	-10	Oct-62	250.3	297.8	19	Oct-82	308.0	260.0	-16
Nov-42	290.4	367.0	26	Nov-62	278.1	348.9	25	Nov-82	198.5	303.2	53
Dec-42	242.9	239.9	-1	Dec-62	205.1	235.3	15	Dec-82	87.0	205.9	137
Jan-43	103.2	120.3	17	Jan-63	184.9	113.6	-39	Jan-83	60.7	92.5	52
Feb-43	88.5	62.3	-30	Feb-63	73.4	78.3	7	Feb-83	34.5	54.0	57
Mar-43	69.0	56.2	-19	Mar-63	44.9	55.1	23	Mar-83	24.6	28.8	17
Apr-43	84.0	103.4	23	Apr-63	94.3	71.7	-24	Apr-83	44.1	44.9	2
May-43	201.0	171.2	-15	May-63	218.6	177.5	-19	May-83	163.9	146.7	-10
Jun-43	247.9	206.6	-17	Jun-63	247.4	214.3	-13	Jun-83	147.4	190.5	29
Jul-43	177.0	247.8	-40	Jul-63	265.3	247.4	-7	Jul-83	125.0	170.5	36
Aug-43	205.3	207.1	1	Aug-63	334.1	268.6	-20	Aug-83	151.8	170.8	13
Sep-43	200.3	223.1	11	Sep-63	286.9	274.2	-4	Sep-83	234.3	201.8	-14
Oct-43	257.1	273.2	6	Oct-63	301.2	327.3	9	Oct-83	251.7	294.4	17
Nov-43	316.3	314.1	-1	Nov-63	426.4	390.1	-9	Nov-83	257.1	275.3	7
Dec-43	443.1	249.5	-44	Dec-63	136.9	290.2	112	Dec-83	408.9	227.6	-44
Jan-44	136.3	156.0	14	Jan-64	65.9	101.4	54	Jan-84	129.6	149.9	16
Feb-44	78.7	68.8	-13	Feb-64	39.2	55.0	40	Feb-84	74.8	67.5	-10
Mar-44	40.6	54.1	33	Mar-64	30.8	31.3	1	Mar-84	37.6	51.9	38
Apr-44	96.7	66.0	-32	Apr-64	65.0	53.1	-18	Apr-84	31.7	62.1	96
May-44	246.8	179.0	-27	May-64	181.0	159.5	-12	May-84	130.6	139.1	7
Jun-44	190.6	226.5	19	Jun-64	319.3	197.9	-38	Jun-84	195.3	176.0	-10
Jul-44	225.6	203.7	-10	Jul-64	341.3	302.7	-11	Jul-84	214.4	207.3	-3
Aug-44	296.7	241.0	-19	Aug-64	307.3	321.6	5	Aug-84	376.3	233.2	-38
Sep-44	245.6	259.4	6	Sep-64	290.7	263.6	-9	Sep-84	315.4	291.0	-8
Oct-44	409.8	301.5	-26	Oct-64	345.0	329.6	-4	Oct-84	377.3	345.1	-9
Nov-44	333.2	404.4	21	Nov-64	421.9	385.7	-9	Nov-84	387.0	432.2	12
Dec-44	485.9	255.7	-47	Dec-64	153.6	288.5	88	Dec-84	175.5	275.6	57
Jan-45	122.9	163.6	33	Jan-65	106.2	104.4	-2	Jan-85	89.3	108.3	21

GATUN TOTAL MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Feb-45	68.0	66.2	-3	Feb-65	59.4	62.9	6	Feb-85	59.5	59.6	0
Mar-45	41.5	48.3	16	Mar-65	42.5	43.2	2	Mar-85	51.5	42.1	-18
Apr-45	48.5	67.2	39	Apr-65	34.3	68.5	100	Apr-85	41.6	80.4	93
May-45	150.9	149.4	-1	May-65	137.3	140.7	2	May-85	129.8	145.2	12
Jun-45	179.8	184.8	3	Jun-65	187.9	178.9	-5	Jun-85	196.4	175.7	-11
Jul-45	194.8	195.4	0	Jul-65	153.3	201.7	32	Jul-85	151.8	208.2	37
Aug-45	216.0	219.5	2	Aug-65	192.9	190.6	-1	Aug-85	160.3	189.5	18
Sep-45	231.4	227.3	-2	Sep-65	216.7	218.1	1	Sep-85	269.9	205.2	-24
Oct-45	319.0	292.6	-8	Oct-65	403.5	283.4	-30	Oct-85	225.7	316.6	40
Nov-45	335.3	333.0	-1	Nov-65	560.0	344.9	-38	Nov-85	217.6	267.6	23
Dec-45	445.4	256.5	-42	Dec-65	341.0	339.6	0	Dec-85	310.4	212.9	-31
Jan-46	97.8	156.4	60	Jan-66	132.6	137.8	4	Jan-86	84.9	132.3	56
Feb-46	50.2	61.3	22	Feb-66	62.3	68.1	9	Feb-86	50.5	58.8	16
Mar-46	42.3	38.5	-9	Mar-66	44.4	46.4	5	Mar-86	45.4	37.7	-17
Apr-46	46.1	68.2	48	Apr-66	135.2	71.0	-47	Apr-86	119	72.3	-39
May-46	126.6	147.9	17	May-66	212.2	202.6	-5	May-86	178.5	192.6	8
Jun-46	150.3	174.3	16	Jun-66	210.2	211.5	1	Jun-86	198	196.8	-1
Jul-46	256.3	172.7	-33	Jul-66	189.2	218.8	16	Jul-86	150.4	209.4	39
Aug-46	195.7	262.4	34	Aug-66	215.2	215.6	0	Aug-86	154.6	188.5	22
Sep-46	224.7	219.3	-2	Sep-66	225.9	227.0	0	Sep-86	211.1	202.9	-4
Oct-46	215.1	288.4	34	Oct-66	289.2	289.2	0	Oct-86	377	279.9	-26
Nov-46	184.1	292.9	59	Nov-66	524.6	325.0	-38	Nov-86	309.4	315.5	2
Dec-46	342.0	200.5	-41	Dec-66	370.2	326.5	-12	Dec-86	124.9	246.9	98
Jan-47	99.3	138.0	39	Jan-67	123.0	143.0	16	Jan-87	57	99.3	74
Feb-47	60.2	61.6	2	Feb-67	70.5	66.2	-6	Feb-87	52.6	53.3	1
Mar-47	34.3	43.1	26	Mar-67	51.9	49.4	-5	Mar-87	29.2	36.7	26
Apr-47	51.3	57.7	12	Apr-67	113.4	80.9	-29	Apr-87	168.5	51.0	-70
May-47	110.0	151.1	37	May-67	218.4	189.2	-13	May-87	293.2	223.0	-24
Jun-47	177.7	167.1	-6	Jun-67	295.3	214.2	-27	Jun-87	191.8	246.7	29
Jul-47	215.3	193.8	-10	Jul-67	281.4	284.3	1	Jul-87	210.8	204.7	-3
Aug-47	232.4	233.8	1	Aug-67	235.2	279.9	19	Aug-87	252.3	230.7	-9
Sep-47	226.6	233.8	3	Sep-67	255.5	235.0	-8	Sep-87	300.3	241.7	-20
Oct-47	257.1	289.6	13	Oct-67	304.8	307.7	1	Oct-87	362	335.6	-7
Nov-47	227.4	326.3	43	Nov-67	335.2	336.8	0	Nov-87	350.8	356.0	1
Dec-47	201.5	216.6	7	Dec-67	225.8	256.4	14	Dec-87	175.8	262.2	49
Jan-48	87.6	112.9	29	Jan-68	74.9	117.3	57	Jan-88	61	108.3	78
Feb-48	44.0	59.3	35	Feb-68	62.9	56.8	-10	Feb-88	54.1	54.1	0
Mar-48	29.1	35.0	20	Mar-68	44.5	42.6	-4	Mar-88	30.9	37.7	22
Apr-48	26.9	50.8	89	Apr-68	36.2	71.1	97	Apr-88	31.2	53.2	71
May-48	106.2	136.2	28	May-68	133.7	141.9	6	May-88	130.4	138.8	6
Jun-48	116.1	165.4	42	Jun-68	158.8	177.4	12	Jun-88	136.3	175.9	29
Jul-48	223.2	146.4	-34	Jul-68	157.9	179.3	14	Jul-88	257.5	162.0	-37
Aug-48	193.5	239.3	24	Aug-68	224.0	193.8	-13	Aug-88	330	263.2	-20
Sep-48	178.9	218.4	22	Sep-68	223.6	230.5	3	Sep-88	283.1	272.6	-4
Oct-48	211.2	259.8	23	Oct-68	267.9	287.7	7	Oct-88	377.2	324.9	-14
Nov-48	328.9	297.6	-10	Nov-68	254.5	324.7	28	Nov-88	284.3	409.4	44
Dec-48	129.6	254.1	96	Dec-68	122.0	226.6	86	Dec-88	197.1	237.6	21
Jan-49	59.9	100.1	67	Jan-69	79.8	98.7	24	Jan-89	89.7	112.1	25
Feb-49	34.0	53.9	58	Feb-69	53.1	57.8	9	Feb-89	83.2	59.7	-28
Mar-49	25.3	28.5	13	Mar-69	40.7	38.5	-5	Mar-89	50.3	52.9	5

GATUN TOTAL MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Apr-49	32.0	45.8	43	Apr-69	73.4	66.1	-10	Apr-89	38.9	78.8	103
May-49	128.5	139.3	8	May-69	136.9	164.7	20	May-89	106.5	143.5	35
Jun-49	266.1	175.1	-34	Jun-69	116.5	178.8	53	Jun-89	153.2	165.5	8
Jul-49	266.8	261.8	-2	Jul-69	157.3	146.7	-7	Jul-89	216.9	175.0	-19
Aug-49	264.8	269.7	2	Aug-69	221.3	193.4	-13	Aug-89	256.1	234.9	-8
Sep-49	267.0	246.7	-8	Sep-69	252.7	229.4	-9	Sep-89	196.1	243.3	24
Oct-49	306.2	314.8	3	Oct-69	242.1	305.9	26	Oct-89	299.5	270.5	-10
Nov-49	477.7	353.1	-26	Nov-69	290.3	311.4	7	Nov-89	379.7	357.0	-6
Dec-49	324.2	309.2	-5	Dec-69	394.5	239.8	-39	Dec-89	234.7	272.9	16
Jan-50	87.3	134.8	54	Jan-70	269.5	147.3	-45	Jan-90	144.7	118.8	-18
Feb-50	72.1	59.2	-18	Feb-70	75.4	94.9	26	Feb-90	76.5	70.5	-8
Mar-50	43.6	47.7	9	Mar-70	70.8	61.9	-13	Mar-90	66.5	53.7	-19
Apr-50	73.3	70.0	-5	Apr-70	136.4	105.8	-22	Apr-90	74.3	100.1	35
May-50	199.0	164.6	-17	May-70	251.1	203.3	-19	May-90	257.9	165.2	-36
Jun-50	228.1	205.7	-10	Jun-70	184.8	228.4	24	Jun-90	155.4	231.3	49
Jul-50	324.2	232.6	-28	Jul-70	203.4	199.3	-2	Jul-90	165.6	176.6	7
Aug-50	285.9	309.7	8	Aug-70	258.6	225.5	-13	Aug-90	228.2	199.1	-13
Sep-50	202.5	255.1	26	Sep-70	243.8	244.2	0	Sep-90	331.6	232.2	-30
Oct-50	225.4	274.5	22	Oct-70	351.8	300.3	-15	Oct-90	404.2	355.2	-12
Nov-50	416.7	353.2	-15	Nov-70	354.0	365.7	3	Nov-90	323.1	348.5	8
Dec-50	432.7	286.6	-34	Dec-70	456.9	263.4	-42	Dec-90	273.4	252.0	-8
Jan-51	103.4	154.2	49	Jan-71	218.9	158.5	-28	Jan-91	83.8	125.7	50
Feb-51	164.5	62.4	-62	Feb-71	88.2	85.0	-4	Feb-91	55.4	58.5	6
Mar-51	78.7	90.6	15	Mar-71	69.4	64.2	-8	Mar-91	75.8	39.9	-47
Apr-51	96.5	116.2	20	Apr-71	43.4	104.0	140	Apr-91	54.2	112.4	107
May-51	174.7	178.8	2	May-71	169.6	146.3	-14	May-91	212.2	152.9	-28
Jun-51	164.3	195.2	19	Jun-71	231.5	193.0	-17	Jun-91	143.1	211.5	48
Jul-51	180.2	183.5	2	Jul-71	266.8	235.2	-12	Jul-91	147.8	167.2	13
Aug-51	203.5	209.3	3	Aug-71	269.0	269.7	0	Aug-91	150.5	186.7	24
Sep-51	218.7	222.4	2	Sep-71	233.5	248.4	6	Sep-91	255.2	201.3	-21
Oct-51	239.9	284.7	19	Oct-71	263.8	293.9	11	Oct-91	229.8	307.5	34
Nov-51	261.9	305.4	17	Nov-71	309.8	349.0	13	Nov-91	347.9	265.2	-24
Dec-51	205.7	229.3	11	Dec-71	105.9	247.1	133	Dec-91	165.5	261.1	58
Jan-52	90.4	113.7	26	Jan-72	276.7	95.9	-65	Jan-92	92.7	106.5	15
Feb-52	54.1	59.8	11	Feb-72	75.1	96.3	28	Feb-92	45.6	60.3	32
Mar-52	34.8	39.7	14	Mar-72	46.2	62.3	35	Mar-92	31.2	36.0	15
Apr-52	53.3	58.4	9	Apr-72	128.3	73.4	-43	Apr-92	82.2	53.6	-35
May-52	131.9	152.3	15	May-72	138.2	198.3	44	May-92	278.2	170.1	-39
Jun-52	166.9	176.6	6	Jun-72	190.8	179.3	-6	Jun-92	244.4	240.2	-2
Jul-52	196.2	185.5	-5	Jul-72	115.0	203.9	77	Jul-92	200.4	245.1	22
Aug-52	213.5	220.5	3	Aug-72	134.1	163.9	22	Aug-92	281.9	223.4	-21
Sep-52	224.7	226.3	1	Sep-72	213.5	194.8	-9	Sep-92	304.7	253.5	-17
Oct-52	340.5	288.4	-15	Oct-72	242.6	281.4	16	Oct-92	222.9	338.4	52
Nov-52	214.0	338.5	58	Nov-72	211.1	265.4	26	Nov-92	259.8	334.3	29
Dec-52	370.6	211.6	-43	Dec-72	157.4	210.5	34	Dec-92	182.8	228.6	25
Jan-53	205.4	143.1	-30	Jan-73	73.9	105.1	42	Jan-93	124.1	109.6	-12
Feb-53	114.4	82.4	-28	Feb-73	49.6	56.6	14	Feb-93	67.6	66.4	-2
Mar-53	57.3	75.1	31	Mar-73	21.0	36.5	74	Mar-93	84.7	48.2	-43
Apr-53	63.3	88.0	39	Apr-73	25.5	40.2	58	Apr-93	144.1	124.1	-14
May-53	205.2	158.5	-23	May-73	119.1	135.3	14	May-93	157.6	208.0	32

GATUN TOTAL MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Jun-53	148.0	208.4	41	Jun-73	229.2	171.0	-25	Jun-93	231.9	187.8	-19
Jul-53	209.4	171.0	-18	Jul-73	242.9	233.4	-4	Jul-93	205.7	235.5	14
Aug-53	187.8	229.7	22	Aug-73	229.9	253.0	10	Aug-93	158.3	227.1	43
Sep-53	182.8	216.1	18	Sep-73	274.1	232.8	-15	Sep-93	290.2	204.4	-30
Oct-53	308.7	262.2	-15	Oct-73	268.0	319.3	19	Oct-93	330.9	329.3	0
Nov-53	341.8	320.7	-6	Nov-73	469.4	320.4	-32	Nov-93	344.5	292.6	-15
Dec-53	194.0	258.9	33	Dec-73	236.8	306.1	29	Dec-93	204.7	259.9	27
Jan-54	86.1	111.6	30	Jan-74	111.9	119.2	7	Jan-94	81.1	113.5	40
Feb-54	60.1	59.0	-2	Feb-74	60.4	64.0	6	Feb-94	46.7	58.0	24
Mar-54	42.9	42.1	-2	Mar-74	46.1	44.1	-4	Mar-94	44.0	35.7	-19
Apr-54	64.9	69.0	6	Apr-74	33.2	73.3	121	Apr-94	36.9	70.5	91
May-54	186.5	159.5	-15	May-74	85.2	140.0	64	May-94	162.9	142.3	-13
Jun-54	202.0	200.3	-1	Jun-74	146.2	156.3	7	Jun-94	219.5	190.1	-13
Jul-54	323.4	212.5	-34	Jul-74	180.5	169.6	-6	Jul-94	169.1	226.0	34
Aug-54	293.5	309.1	5	Aug-74	185.5	209.5	13	Aug-94	201.6	201.6	0
Sep-54	262.9	258.1	-2	Sep-74	192.9	215.2	12	Sep-94	198.3	221.6	12
Oct-54	236.1	312.3	32	Oct-74	379.6	268.5	-29	Oct-94	247.3	271.9	10
Nov-54	441.3	351.4	-20	Nov-74	348.4	337.5	-3	Nov-94	363.0	309.5	-15
Dec-54	301.0	295.7	-2	Dec-74	168.3	261.3	55	Dec-94	128.2	266.7	108
Jan-55	294.0	130.7	-56	Jan-75	57.4	107.0	86	Jan-95	91.3	99.8	9
Feb-55	76.7	99.7	30	Feb-75	40.2	53.4	33	Feb-95	39.1	60.0	53
Mar-55	50.6	64.3	27	Mar-75	27.5	31.1	13	Mar-95	27.2	33.0	21
Apr-55	39.1	79.2	103	Apr-75	22.8	48.7	114	Apr-95	50.5	48.3	-4
May-55	110.7	143.6	30	May-75	126.1	133.6	6	May-95	157.9	150.6	-5
Jun-55	168.2	167.4	0	Jun-75	176.1	174.1	-1	Jun-95	241.5	187.9	-22
Jul-55	186.2	186.5	0	Jul-75	252.4	192.6	-24	Jul-95	273.8	242.9	-11
Aug-55	300.5	213.5	-29	Aug-75	341.0	259.7	-24	Aug-95	242.7	274.6	13
Sep-55	229.5	260.9	14	Sep-75	243.4	277.0	14	Sep-95	207.2	237.9	15
Oct-55	239.3	291.4	22	Oct-75	360.9	300.1	-17	Oct-95	226.1	277.5	23
Nov-55	474.9	361.6	-24	Nov-75	455.6	417.6	-8	Nov-95	316.1	326.8	3
Dec-55	253.6	308.1	22	Dec-75	383.4	301.0	-21	Dec-95	276.0	249.4	-10
Jan-56	260.2	122.2	-53	Jan-76	117.5	145.4	24	Jan-96	405.9	126.2	-69
Feb-56	90.1	93.1	3	Feb-76	61.4	65.1	6	Feb-96	127.9	121.6	-5
Mar-56	79.3	67.9	-14	Mar-76	42.9	44.9	5	Mar-96	103.5	95.3	-8
Apr-56	81.2	117.0	44	Apr-76	67.3	69.0	3	Apr-96	79.4	148.9	88
May-56	245.9	169.5	-31	May-76	115.4	160.9	39	May-96	250.7	168.3	-33
Jun-56	210.2	226.1	8	Jun-76	128.7	169.4	32	Jun-96	257.6	228.2	-11
Jul-56	316.8	218.8	-31	Jul-76	67.0	156.1	133	Jul-96	252.6	255.3	1
Aug-56	187.7	304.5	62	Aug-76	93.1	130.4	40	Aug-96	286.9	259.8	-9
Sep-56	232.0	216.1	-7	Sep-76	185.4	178.5	-4	Sep-96	245.4	255.5	4
Oct-56	342.4	293.0	-14	Oct-76	280.3	263.9	-6	Oct-96	276.6	301.3	9
Nov-56	395.6	322.4	-18	Nov-76	269.8	255.7	-5	Nov-96	460.3	361.4	-21
Dec-56	194.5	278.8	43	Dec-76	95.4	232.3	143	Dec-96	362.9	302.7	-17
Jan-57	61.0	111.7	83	Jan-77	65.2	94.0	44	Jan-97	99.3	141.7	43
Feb-57	38.5	54.1	40	Feb-77	40.8	54.9	35	Feb-97	69.2	61.6	-11
Mar-57	26.3	30.6	16	Mar-77	27.2	31.9	17	Mar-97	36.1	47.2	31
Apr-57	21.3	47.2	121	Apr-77	28.2	48.3	71	Apr-97	32.7	60.1	84
May-57	96.6	132.7	37	May-77	89.8	137.0	53	May-97	143.9	139.7	-3
Jun-57	91.0	161.2	77	Jun-77	100.5	158.3	57	Jun-97	142.8	181.8	27
Jul-57	87.9	127.1	45	Jul-77	119.8	134.4	12	Jul-97	98.5	167.0	69

GATUN TOTAL MONTHLY INFLOW, CMS
PERCENTAGE DIFFERENCES BETWEEN OBSERVED AND FITTED/VERIFICATION FLOWS

<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>	<u>Mon-Yr</u>	<u>Observed</u>	<u>Fitted</u>	<u>% Diff.</u>
Aug-57	132.3	145.0	10	Aug-77	233.8	167.2	-28	Aug-97	87.9	152.4	73
Sep-57	134.9	194.1	44	Sep-77	200.9	234.4	17	Sep-97	122.4	176.4	44
Oct-57	250.8	232.3	-7	Oct-77	333.4	273.5	-18	Oct-97	161.3	224.5	39
Nov-57	308.7	278.8	-10	Nov-77	274.2	352.4	29	Nov-97	166.0	229.2	38
Dec-57	171.0	246.6	44	Dec-77	180.9	233.9	29	Dec-97	76.0	193.9	155
Jan-58	146.4	107.5	-27	Jan-78	68.8	109.2	59	Jan-98	41.7	130.5	213
Feb-58	89.1	70.8	-21	Feb-78	53.4	55.6	4	Feb-98	29.2	80.9	177
Mar-58	59.7	59.5	0	Mar-78	46.8	37.9	-19	Mar-98	19.2	29.9	56
Apr-58	49.0	91.2	86	Apr-78	173.8	74.2	-57	Apr-98	85.9	93.0	8
May-58	131.1	149.7	14	May-78	199.7	226.2	13	May-98	154.4	180.1	17
Jun-58	138.1	176.2	28	Jun-78	234.4	206.0	-12	Jun-98	141.0	138.5	-2
Jul-58	179.9	163.3	-9	Jul-78	241.7	237.4	-2	Jul-98	191.9	145.6	-24
Aug-58	192.0	209.1	9	Aug-78	298.9	252.2	-16	Aug-98	215.6	210.2	-2
Sep-58	215.1	217.8	1	Sep-78	230.8	260.3	13	Sep-98	205.3	220.2	7
Oct-58	227.9	282.4	24	Oct-78	264.6	292.2	10	Oct-98	244.5	347.5	42
Nov-58	208.0	295.7	42	Nov-78	325.3	367.5	13	Nov-98	200.3	322.7	61
Dec-58	151.9	209.4	38	Dec-78	156.1	252.8	62	Dec-98	324.0	256.8	-21
Jan-59	62.4	104.1	67	Jan-79	69.7	104.8	50	Jan-99	135.3	108.4	-20
Feb-59	36.9	54.4	47	Feb-79	43.4	55.8	29	Feb-99	87.1	94.2	8
Mar-59	26.8	30.0	12	Mar-79	32.3	33.4	3	Mar-99	70.5	52.2	-26
Apr-59	44.4	47.8	8	Apr-79	111.7	55.1	-51	Apr-99	95.0	99.0	4
May-59	103.1	146.9	42	May-79	129.3	188.2	46	May-99	176.0	198.8	13
Jun-59	130.2	164.1	26	Jun-79	189.0	175.4	-7	Jun-99	266.0	212.3	-20
Jul-59	122.6	157.3	28	Jul-79	178.2	202.5	14	Jul-99	239.4	217.9	-9
Aug-59	139.6	169.2	21	Aug-79	231.1	207.9	-10	Aug-99	338.8	176.8	-48
Sep-59	224.7	197.0	-12	Sep-79	212.5	233.3	10	Sep-99	282.2	208.3	-26
Oct-59	259.6	288.4	11	Oct-79	270.6	280.8	4	Oct-99	259.8	330.4	27
Nov-59	349.4	271.7	-22	Nov-79	268.1	331.4	24	Nov-99	394.6	519.6	32
Dec-59	523.3	261.7	-50	Dec-79	216.4	231.6	7	Dec-99	656.9	354.0	-46
Jan-60	196.5	170.3	-13	Jan-80	169.8	115.6	-32	Jan-00	222.7	154.1	-31
Feb-60	51.6	80.6	56	Feb-80	86.8	75.4	-13	Feb-00	81.7	123.7	51
Mar-60	58.5	46.0	-21	Mar-80	43.4	60.1	38	Mar-00	48.4	72.4	50
Apr-60	139.2	89.6	-36	Apr-80	44.1	69.7	58	Apr-00	44.6	42.8	-4
May-60	202.5	205.0	1	May-80	154.4	146.7	-5	May-00	143.0	189.6	33
Jun-60	208.2	207.3	0	Jun-80	213.6	186.4	-13	Jun-00	263.2	188.5	-28
Jul-60	192.0	217.3	13	Jul-80	144.2	221.4	54	Jul-00	160.2	251.5	57
Aug-60	189.3	217.5	15	Aug-80	187.4	184.2	-2	Aug-00	209.3	157.6	-25
Sep-60	167.1	216.7	30	Sep-80	151.6	216.0	42	Sep-00	214.0	235.7	10
Oct-60	253.4	252.4	0	Oct-80	244.8	242.7	-1	Oct-00	303.8	361.8	19
Nov-60	297.7	308.6	4	Nov-80	273.7	307.5	12	Nov-00	220.6	266.0	21
Dec-60	575.2	242.6	-58	Dec-80	226.4	233.7	3	Dec-00	372.6	223.2	-40

Note: The numbers in Italic face for the period Jan-97 to Dec-00 are verification flows.

MODEL VERIFICATION PROGRAM LISTING

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C
C      PROGRAM  VERIFY.FOR
C      THIS PROGRAM VERIFIES VARIALBES FITTED BY PAR(5) MODEL
C
C      DIMENSION DUMMY(20),H(90,12),P(90,12),RM(12),VAR(12),C(12,5)
C
C      OPEN (UNIT=5,FILE='VERIFY.IN')
C
C      OPEN (UNIT=7,FILE='VERIFY.OUT')
C
C      OPEN (UNIT=8,FILE='RANDOM.OUT')
C
C      DUMMY(I)--- TITLE CARD
C
C      READ(5,100) (DUMMY(I),I=1,20)
100    FORMAT(20A4)
      WRITE(6,100) (DUMMY(I),I=1,20)
C
C      NYHIS --- NUMBER OF YEARS OF MONTHLY HISTORICAL DATA
C      NYPRE --- NUMBER OF YEARS FOR MODEL VERIFICATION
C      IPRAT --- INITIAL VALUE FOR RANDOM NUMBER GENERATOR
C      RATIO --- CRITERIA USED TO CHECK THE COMPUTED VARIABLE, IF
C                  THE COMPUTED VALUE IS LESS THAN RATIO TIMES THE MONTHLY
C                  MEAN AND GREATER THAN 1/RATIO TIMES THE MONTHLY MEAN, THEN
C                  THE COMPUTED VALUE IS USED. OTHERWISE REGENERATE A RANDOM
C                  NUMBER AND RECOMPUTE THE VALUE
C
C      READ (5,*) NYHIS,NYPRE, IPRAT , RATIO
      DO 150 I=1,12
C
C      RM(I) --- MONTHLY MEAN OF THE VARIABLE
C      VAR(I)--- MONTHLY VARIANCE OF THE RESIDUAL SERIES COMPUTED FROM THE MODEL
C      C(I,J)--- THE JTH COEFFICIENT OF THE ITH MONTH FOR FITTING THE PAR(5)
MODEL
C          C(I,J) APPLIED TO THE JTH PREVIOUS MONTH DATA
C
C      READ(5,*) RM(I),VAR(I),(C(I,J),J=1,5)
150    CONTINUE
      DO 200 I=1,NYHIS
C
C      H(I,J)---HISTORICAL MONTHLY DATA OF I-TH YEAR J-TH MONTH
C
C      READ(5,*) (H(I,J),J=1,12)
200    CONTINUE
C
      DO 300 I=1,NYPRE
      I1=NYHIS-NYPRE+I
C
      DO 201 K=1,100
C
C      CALL RANDOM NUMBER GEN --- MACHINE INDEPENDENT
C      NORMAL(0,1)
C
C      CALL CLT24(IPRAT,T)
C
C      TO COMPUTE 1ST MONTH
C

```

```

P(I1,1)=(H(I1-1,12)-RM(12))*C(1,1)+(H(I1-1,11)-RM(11))*C(1,2)
1      + (H(I1-1,10)-RM(10))*C(1,3)+(H(I1-1, 9)-RM( 9))*C(1,4)
2      + (H(I1-1, 8)-RM( 8))*C(1,5)
3      + RM(1)           +T * SQRT(VAR(1))
IF(P(I1,1).LE.0.) GO TO 201
IF(RATIO.EQ.1.) GO TO 202

IF(P(I1,1).GE.RM(1)/RATIO.AND.P(I1,1).LE.RM(1)*RATIO) GO TO 202

201  CONTINUE
202  CONTINUE
WRITE(8,*) T,K

DO 203 K=1,100
CALL CLT24(IPRAT,T)

C
C   TO COMPUTE 2ND MONTH
C
P(I1,2)=(H(I1 , 1)-RM( 1))*C(2,1)+(H(I1-1,12)-RM(12))*C(2,2)
1      + (H(I1-1,11)-RM(11))*C(2,3)+(H(I1-1,10)-RM(10))*C(2,4)
2      + (H(I1-1, 9)-RM( 9))*C(2,5)
3      + RM(2)           +T * SQRT(VAR(2))
C
C IF(P(I1,2).GT.0.) GO TO 204
C IF(P(I1,2).LE.0.) GO TO 203

IF(RATIO.EQ.1.) GO TO 204
IF(P(I1,2).GE.RM(2)/RATIO.AND.P(I1,2).LE.RM(2)*RATIO) GO TO 204

203  CONTINUE
204  CONTINUE
WRITE(8,*) T,K

DO 205 K=1,100
CALL CLT24(IPRAT,T)

C
C   TO COMPUTE 3RD MONTH
C
P(I1,3)=(H(I1 , 2)-RM( 2))*C(3,1)+(H(I1 , 1)-RM( 1))*C(3,2)
1      + (H(I1-1,12)-RM(12))*C(3,3)+(H(I1-1,11)-RM(11))*C(3,4)
2      + (H(I1-1,10)-RM(10))*C(3,5)
3      + RM(3)           +T * SQRT(VAR(3))
C
C IF(P(I1,3).GT.0.) GO TO 206
C IF(P(I1,3).LE.0.) GO TO 205
C IF(RATIO.EQ.1.) GO TO 206
IF(P(I1,3).GE.RM(3)/RATIO.AND.P(I1,3).LE.RM(3)*RATIO) GO TO 206

205  CONTINUE
206  CONTINUE
WRITE(8,*) T,K

DO 207 K=1,100
CALL CLT24(IPRAT,T)

C
C   TO COMPUTE 4TH MONTH
C

```

```

P(I1,4)=(H(I1    , 3)-RM( 3))*C(4,1)+(H(I1    , 2)-RM( 2))*C(4,2)
1      + (H(I1    , 1)-RM( 1))*C(4,3)+(H(I1-1,12)-RM(12))*C(4,4)
2      + (H(I1-1,11)-RM(11))*C(4,5)
3      +           RM(4)          +T * SQRT(VAR(4))
C     IF(P(I1,4).GT.0.) GO TO 208
C     IF(P(I1,4).LE.0.) GO TO 207
C     IF(RATIO.EQ.1.) GO TO 208
C     IF(P(I1,4).GE.RM(4)/RATIO.AND.P(I1,4).LE.RM(4)*RATIO) GO TO 208

207  CONTINUE
208  CONTINUE
      WRITE(8,*) T,K

      DO 217 K=1,100
      CALL CLT24(IPRAT,T)
C
C     TO COMPUTE 5TH MONTH
C
      P(I1,5)=(H(I1    , 4)-RM( 4))*C(4,1)+(H(I1    , 3)-RM( 3))*C(4,2)
1      + (H(I1    , 2)-RM( 2))*C(4,3)+(H(I1    , 1)-RM( 1))*C(4,4)
2      + (H(I1-1,12)-RM(12))*C(4,5)
3      +           RM(5)          +T * SQRT(VAR(5))
      IF(P(I1,5).LE.0.) GO TO 217
      IF(RATIO.EQ.1.) GO TO 218
      IF(P(I1,5).GE.RM(5)/RATIO.AND.P(I1,4).LE.RM(5)*RATIO) GO TO 218

217  CONTINUE
218  CONTINUE
      WRITE(8,*) T,K

      DO 350 K=6,12
      DO 317 M=1,100
      CALL CLT24(IPRAT,T)
C
C     TO COMPUTE 6TH-12TH MONTH
C
      P(I1,K)=(H(I1,K-1)-RM(K-1))*C(K,1)+(H(I1,K-2)-RM(K-2))*C(K,2)
1      + (H(I1,K-3)-RM(K-3))*C(K,3)+(H(I1,K-4)-RM(K-4))*C(K,4)
2      + (H(I1,K-5)-RM(K-5))*C(K,5)
3      +           RM(K)          +T * SQRT(VAR(K))

      IF(P(I1,K).LE.0.) GO TO 317
      IF(RATIO.EQ.1.) GO TO 318
      IF(P(I1,K).GE.RM(K)/RATIO.AND.P(I1,K).LE.RM(K)*RATIO) GO TO 318

317  CONTINUE
318  CONTINUE
      WRITE(8,*) T,M

350  CONTINUE
300  CONTINUE

      DO 400 I=1,NYPRE
      I1=NYHIS-NYPRE+I

```

```

DO 390 J=1,12
WRITE(7,500) H(I1,J),P(I1,J)
390 CONTINUE
400 CONTINUE
500 FORMAT(2F8.2)

CLOSE(5)
CLOSE(7)
CLOSE(8)
STOP
END

C           STEP 7                               FLN11120
C           MULTIPLE RANDOM SAMPLE DIVIATE BY STANDARD FLN11130
C           ERROR.                                FLN11140
C
C   DIVIT = T*SQRT((1.-(CCOF(NU)**2)))
C   SUBROUTINE CLT24(IX,X)                      FLN11370
C
C   RANDOM NUMBER GEN --- MACHINE INDEPENDENT    FLN11380
C   NORMAL(0,1)                                 FLN11390
C   PSEUDORANDOM PARAMETERS.                    FLN11400
C   M= 2**24 =16777216                          FLN11410
C   A=5                                         FLN11420
C   C=777777                                    FLN11430
C
C   INTEGER*4 IX,IY                            FLN11440
C   IY=16777216                                FLN11450
C   SUM=0.0                                     FLN11460
C   DO 10 I=1,24                                FLN11470
C   IX=5*IX + 777777 -(((5*IX+ 777777)/IY)*IY) FLN11480
C   X=IX                                       FLN11490
10  SUM = SUM + (X/.16777216E8)                FLN11500
C   X =SUM * .70710678-8.4852814               FLN11510
C   N.B. THE FOLLOWING CARD CORRECTS A SD BIAS OBSERVED
C   IN EACH OF TWO RUNS WHICH DREW 10000 RANDOM NUMBERS
C   X=X/1.12                                    FLN11520
C   RETURN                                     FLN11530
C   END                                         FLN11540
                                              FLN11550
                                              FLN11560

```

MODEL PREDICTION PROGRAM LISTING

```

C      PROGRAM PREDICT.FOR
C      THIS PROGRAM PREDICTS 3 MONTHS AHEAD OF VARIOUS FITTED BY PAR(5) MODEL
C
C      DIMENSION DUMMY(20),H(12),P(3),RM(12),VAR(12),C(12,5)
C
C      OPEN (UNIT=5,FILE='PREDICT.IN')
C
C      OPEN (UNIT=7,FILE='PREDICT.OUT')
C
C      OPEN (UNIT=8,FILE='RANDOM.OUT')
C
C      DUMMY(I)--- TITLE CARD
C
C      READ(5,100) (DUMMY(I),I=1,20)
100    FORMAT(20A4)
      WRITE(7,100) (DUMMY(I),I=1,20)
C
C      MB --- BEGINNING MONTH OF MODEL PREDICTION
C      IPRAT --- INITIAL VALUE FOR RANDOM NUMBER GENERATOR
C      RATIO --- CRITERIA USED TO CHECK THE COMPUTED VARIABLE, IF
C                  THE COMPUTED VALUE IS LESS THAN RATIO TIMES THE MONTHLY
C                  MEAN AND GREATER THAN 1/RATIO TIMES THE MONTHLY MEAN, THEN
C                  THE COMPUTED VALUE IS USE. OTHERWISE REGENERATE A RANDO
C                  NUMBER AND RECOMPUTE THE VALUE
C
C      READ (5,*) MB, IPRAT , RATIO
      IF(RATIO.LT.1.) WRITE(*,50)
50      FORMAT('***** RATIO NEEDS TO BE GREATER THAN 1 *****')
C
      DO 150 I=1,12
C
C      RM(I) --- MONTHLY MEAN OF THE VARIABLE
C      VAR(I)--- MONTHLY VARIANCE OF THE RESIDUAL SERIES COMPUTED FROM THE MODEL
C      C(I,J)--- THE JTH COEFFICIENT OF THE ITH MONTH FOR FITTING THE PAR(5) MODEL
C                  C(I,J) APPLIED TO THE ITH PREVIOUS MONTH DATA
C
C      READ(5,*) RM(I),VAR(I),(C(I,J),J=1,5)
150    CONTINUE
C
C      H(I)---12 LATEST MONTHLY HISTORICAL DATA BEFORE THE 1ST PREDICTION
C                  MONTH, INPUT PREPARED IN THE ORDER OF OCCURRENCE
C
C      READ(5,*) (H(I),I=MB,12)
      IF(MB.NE.1) READ(5,*) (H(I),I=1,MB-1)
C
      DO 300 J=1,3
      IF(MB+J-1.EQ.1) GO TO 501
      IF(MB+J-1.EQ.2) GO TO 502
      IF(MB+J-1.EQ.3) GO TO 503
      IF(MB+J-1.EQ.4) GO TO 504
      IF(MB+J-1.EQ.5) GO TO 505
      IF(MB+J-1.GE.6) GO TO 506
501    CONTINUE
C
      P1=H(12)
      P2=H(11)
      IF(J.EQ.2) P1=P(1)
      IF(J.EQ.3) P1=P(2)
      IF(J.EQ.3) P2=P(1)
C
      DO 201 K=1,100
C
C      CALL RANDOM NUMBER GEN --- MACHINE INDEPENDENT
C      NORMAL(0,1)
C
C      CALL CLT24(IPRAT,T)
C
C      TO COMPUTE JAN
C
      P(J)= ( P1-RM(12))*C(1,1)+ ( P2-RM(11))*C(1,2)
1      + (H(10)-RM(10))*C(1,3)+(H( 9)-RM( 9))*C(1,4)
2      + (H( 8)-RM( 8))*C(1,5)
3      + RM(1) + T * SQRT(VAR(1))
      IF(P(J).LE.0.) GO TO 201
      IF(RATIO.EQ.1) GO TO 202

```

```

IF(P(J).GT.RM(1)/RATIO.AND.P(J).LT.RM(1)*RATIO) GO TO 202

201  CONTINUE
202  CONTINUE
      WRITE(8,*) T,K
      GO TO 300
502  CONTINUE

      P1=H( 1)
      P2=H(12)
      IF(J.EQ.2) P1=P(1)
      IF(J.EQ.3) P1=P(2)
      IF(J.EQ.3) P2=P(1)

      DO 203 K=1,100
      CALL CLT24(IPRAT,T)
C
C      TO COMPUTE FEB
C
      P(J)=   (P1      -RM( 1))*C(2,1)+(P2      -RM(12))*C(2,2)
1          + (H(11)-RM(11))*C(2,3)+(H(10)-RM(10))*C(2,4)
2          + (H( 9)-RM( 9))*C(2,5)
3          + RM( 2)           +T * SQRT(VAR(2))
      IF(P(J).LE.0.) GO TO 203
      IF(RATIO.EQ.1) GO TO 204

      IF(P(J).GT.RM(2)/RATIO.AND.P(J).LT.RM(2)*RATIO) GO TO 204

203  CONTINUE
204  CONTINUE
      WRITE(8,*) T,K
      GO TO 300
503  CONTINUE

      P1=H( 2)
      P2=H( 1)
      IF(J.EQ.2) P1=P(1)
      IF(J.EQ.3) P1=P(2)
      IF(J.EQ.3) P2=P(1)

      DO 205 K=1,100
      CALL CLT24(IPRAT,T)
C
C      TO COMPUTE MAR
C
      P(J)=   (P1      -RM( 2))*C(3,1)+(P2      -RM( 1))*C(3,2)
1          + (H(12)-RM(12))*C(3,3)+(H(11)-RM(11))*C(3,4)
2          + (H(10)-RM(10))*C(3,5)
3          + RM( 3)           +T * SQRT(VAR(3))
      IF(P(J).LE.0.) GO TO 205
      IF(RATIO.EQ.1) GO TO 206
      IF(P(J).GT.RM(3)/RATIO.AND.P(J).LT.RM(3)*RATIO) GO TO 206

205  CONTINUE
206  CONTINUE
      WRITE(8,*) T,K
      GO TO 300
504  CONTINUE

      P1=H( 3)
      P2=H( 2)
      IF(J.EQ.2) P1=P(1)
      IF(J.EQ.3) P1=P(2)
      IF(J.EQ.3) P2=P(1)

      DO 207 K=1,100
      CALL CLT24(IPRAT,T)
C
C      TO COMPUTE APR
C
      P(J)=   (P1      -RM( 3))*C(4,1)+(P2      -RM( 2))*C(4,2)
1          + (H( 1)-RM( 1))*C(4,3)+(H(12)-RM(12))*C(4,4)
2          + (H(11)-RM(11))*C(4,5)
3          + RM( 4)           +T * SQRT(VAR(4))
      IF(P(J).LE.0.) GO TO 207
      IF(RATIO.EQ.1) GO TO 208

```

```

IF(P(J).GT.RM(4)/RATIO.AND.P(J).LT.RM(4)*RATIO) GO TO 208
207  CONTINUE
208  CONTINUE
      WRITE(8,*) T,K
      GO TO 300
505  CONTINUE

      P1=H( 4)
      P2=H( 3)
      IF(J.EQ.2) P1=P(1)
      IF(J.EQ.3) P1=P(2)
      IF(J.EQ.3) P2=P(1)

      DO 217 K=1,100
      CALL CLT24(IPRAT,T)
C      TO COMPUTE MAY
C
      P(J)=   (P1      -RM( 4))*C(5,1)+(P2      -RM( 3))*C(5,2)
1      + (H( 2)-RM( 2))*C(5,3)+(H( 1)-RM( 1))*C(5,4)
2      + (H(12)-RM(12))*C(5,5)
3      + (RM(5)          +T * SQRT(VAR(5)))
      IF(P(J).LE.0.) GO TO 217
      IF(RATIO.EQ.1) GO TO 218
      IF(P(J).GT.RM(5)/RATIO.AND.P(J).LT.RM(5)*RATIO) GO TO 218

217  CONTINUE
218  CONTINUE
      WRITE(8,*) T,K
      GO TO 300

506  CONTINUE

      K=MB+J-1

      P1=H(K-1)
      P2=H(K-2)
      IF(J.EQ.2) P1=P(1)
      IF(J.EQ.3) P1=P(2)
      IF(J.EQ.3) P2=P(1)

      DO 317 M=1,100
      CALL CLT24(IPRAT,T)
C      TO COMPUTE JUN-DEC
C
      P(J)=   (P1      -RM(K-1))*C(K,1)+(P2      -RM(K-2))*C(K,2)
1      + (H(K-3)-RM(K-3))*C(K,3)+(H(K-4)-RM(K-4))*C(K,4)
2      + (H(K-5)-RM(K-5))*C(K,5)
3      + (RM(K)          +T * SQRT(VAR(K)))
      IF(P(J).LE.0.) GO TO 317
      IF(RATIO.EQ.1) GO TO 318
      IF(P(J).GT.RM(K)/RATIO.AND.P(J).LT.RM(K)*RATIO) GO TO 318

317  CONTINUE
318  CONTINUE
300  CONTINUE

      WRITE(7,500) (P(I),I=1,3)
500  FORMAT(//'FORECASTED VALUES FOR MONTH    1           2           3',/,
1
      CLOSE(5)
      CLOSE(7)
      CLOSE(8)
      STOP
      END

C              STEP 7
C              MULTIPLE RANDOM SAMPLE DIVIATE BY STANDARD FLN11120
C              ERROR.                               FLN11130
C              DIVIT = T*SQRT((1.-(CCOF(NU)**2)))   FLN11140
C                                               FLN11150

```

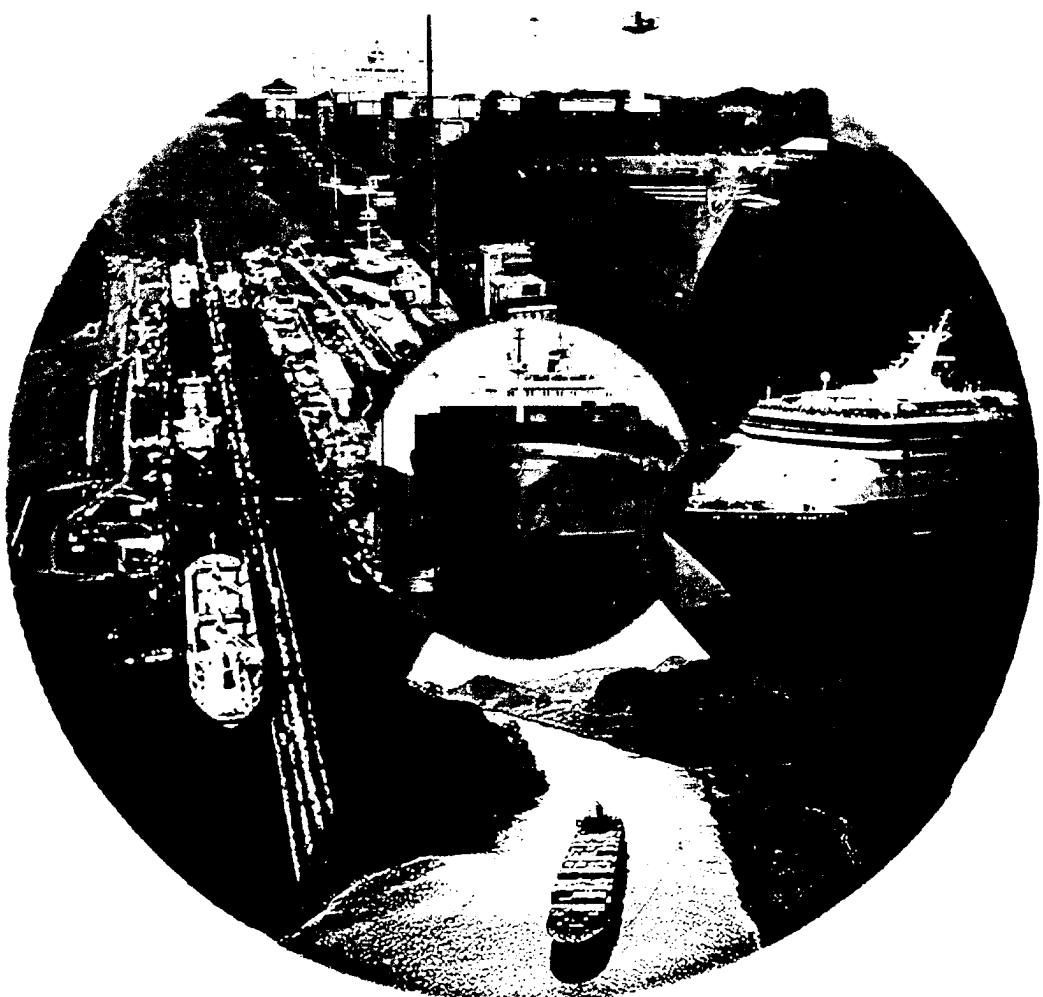
```

SUBROUTINE CLT24(IX,X)                               FLN11370
C                                                 FLN11380
C RANDOM NUMBER GEN --- MACHINE INDEPENDENT        FLN11390
C NORMAL(0,1)                                       FLN11400
C PSEUDORANDOM PARAMETERS.                         FLN11410
C M= 2**24 =16777216                                FLN11420
C A=5                                              FLN11430
C C=777777                                         FLN11440
C                                                 FLN11450
C
C INTEGER*4 IX,IY
C IY=16777216
C SUM=0.0
C DO 10 I=1,24
C   IX=5*IX + 777777 -((5*IX+ 777777)/IY)*IY
C   X=IX
10  SUM = SUM + (X/.16777216E8)
C   X =SUM * .70710678-8.4852814
C N.B. THE FOLLOWING CARD CORRECTS A SD BIAS OBSERVED
C IN EACH OF TWO RUNS WHICH DREW 10000 RANDOM NUMBERS
C X=X/1.12
C RETURN
C END

```

Appendix G

HEC-4 Computer Program, Input and Output Files for Rainfall and Streamflow with 100-year Synthetic Series



10 SETS OF 100-YEAR SYNTHETIC RAINFALL

MADDEN MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
1	149	15	5	274	528	373	221	339	351	360	575	266	3456	501	63	59	256	115	320	386	254	382	362	307	212	199	2914
2	40	58	74	66	376	290	259	357	386	419	307	173	2804	502	68	63	126	228	337	52	286	482	239	159	2404		
3	45	12	13	335	680	298	401	342	348	349	301	219	3342	503	17	109	6	37	212	280	474	437	354	393	216	142	2676
4	5	26	34	66	338	333	112	263	204	247	325	2108	504	2	65	77	59	266	379	224	316	335	408	358	349	2837	
5	59	45	75	91	455	469	404	387	299	362	252	138	3036	505	16	40	43	50	196	303	578	451	272	623	337	213	3122
6	43	15	47	258	284	174	224	290	298	428	444	394	2903	506	80	60	24	194	465	429	393	437	469	301	506	520	3877
7	42	2	2	43	285	248	218	419	423	641	584	152	3057	507	186	3	16	12	326	268	251	421	283	664	482	206	3217
8	116	83	172	159	167	302	231	282	252	366	451	168	2768	508	87	29	169	94	306	429	448	369	278	290	331	49	2879
9	81	50	11	57	273	247	336	355	436	340	389	427	3022	509	36	25	52	65	325	393	232	375	273	280	789	307	3152
10	68	12	17	61	214	472	365	283	340	290	364	98	2582	510	64	101	35	24	133	349	449	359	304	271	270	81	2440
11	42	54	100	315	402	254	349	225	349	304	373	655	3421	511	10	33	24	68	433	314	425	385	300	405	190	221	2806
12	78	23	68	464	235	133	164	295	309	471	635	121	2996	512	135	52	40	245	318	255	272	258	285	239	382	264	2745
13	6	20	221	281	399	406	360	292	254	284	212	2747	513	67	21	25	100	348	213	329	292	410	518	405	219	2946	
14	89	36	17	192	323	420	367	239	383	306	139	2895	514	26	59	98	48	314	429	202	141	214	364	258	208	2361	
15	32	14	54	91	430	351	189	202	346	517	284	108	2617	515	14	62	55	252	305	472	374	399	412	471	400	47	3262
16	181	123	62	128	497	296	338	242	655	451	431	348	3372	516	64	71	21	254	331	439	403	269	430	284	304	449	3319
17	136	23	39	22	230	513	368	320	381	400	281	57	2769	517	16	24	62	330	250	478	330	280	345	215	361	2709	
18	55	41	13	153	393	245	198	313	349	445	272	607	3174	518	40	17	32	149	405	234	241	310	351	297	269	288	2813
19	68	40	26	291	429	396	227	164	296	348	279	34	2598	519	25	42	57	54	267	224	190	281	274	400	195	97	2106
20	40	31	22	157	373	349	146	352	387	397	198	249	2700	520	52	26	40	13	493	372	464	366	318	277	310	100	2831
21	51	91	16	79	270	297	121	283	315	355	610	169	2657	521	41	100	17	72	410	436	405	238	370	224	661	105	3077
22	43	47	2	63	379	360	203	401	404	529	474	306	3209	522	115	12	8	143	267	288	409	317	402	335	381	111	2788
23	50	30	65	216	385	220	351	322	439	253	177	227	2734	523	95	45	31	176	588	426	285	245	374	464	403	221	3351
24	74	108	112	18	182	169	348	316	352	450	217	77	2422	524	13	3	13	135	260	270	335	180	241	438	395	122	2403
25	37	34	21	39	325	217	222	181	350	257	310	159	2151	525	1	20	23	74	351	286	414	301	301	398	286	124	2374
26	15	10	43	123	358	202	187	290	315	406	246	195	2389	526	69	16	6	26	166	194	254	342	329	455	303	390	2450
27	19	22	15	33	347	228	318	425	278	356	278	219	2601	527	66	80	22	126	246	358	407	244	336	501	260	31	2677
28	59	75	16	69	279	313	213	199	182	220	291	138	1974	528	27	4	28	151	452	312	254	246	310	239	399	329	2752
29	103	70	17	94	440	418	154	271	277	393	326	84	2646	529	100	11	81	211	277	199	250	337	229	288	189	43	2214
30	27	25	31	197	330	342	466	265	370	481	291	291	3115	530	10	33	18	195	316	515	324	327	216	278	354	124	2710
31	114	59	31	36	74	154	343	253	309	272	289	289	2515	531	20	21	27	534	522	238	313	267	284	562	738	307	3831
32	10	34	73	22	134	228	298	316	331	319	319	319	360	532	126	93	38	100	338	334	369	384	193	444	395	295	3072
33	179	60	37	613	442	270	207	187	252	409	346	371	3372	533	36	7	21	137	255	222	299	199	329	218	451	263	2813
34	47	84	44	218	185	381	420	365	378	425	479	146	3172	534	90	120	59	57	289	354	200	319	287	391	266	277	2779
35	117	42	103	89	384	517	485	458	235	281	386	100	3196	535	241	28	64	214	321	223	409	330	232	370	227	2877	
36	88	106	53	169	246	289	155	294	287	264	590	123	2666	536	13	2	5	82	304	350	283	341	376	470	363	205	2794
37	25	30	27	119	324	282	124	238	400	408	888	244	3107	537	370	98	21	39	170	241	374	335	382	334	485	324	3105
38	107	17	13	17	369	298	270	314	301	493	366	352	3057	538	138	6	35	175	351	416	409	415	275	426	331	528	3505
39	15	52	71	37	265	292	291	300	224	194	199	117	2087	539	59	73	162	262	467	209	220	323	251	401	515	350	191
40	14	31	11	212	314	363	336	333	448	377	456	321	234	3135	540	107	17	16	21	288	288	107	407	254	304	505	290
41	44	5	42	133	275	419	221	406	277	457	507	184	3061	542	8	68	26	66	304	307	464	349	428	255	426	426	3114
42	67	42	133	54	275	418	228	79	257	216	245	467	588	2607	550	29	107	65	126	247	450	482	447	308	275	222	206
43	98	19	16	116	302	286	241	318	353	472	583	157	2961	543	23	25	26	74	285	198	118	142	294	264	174	1875	
44	244	59	35	68	291	323	376	336	336	480	420	323	3207	544	22	57	163	103	472	412	400	332	335	334	193	35	2871
45	31	20	45	167	387	371	172	191	261	515	273	173	251	543	234	104	121	126	212	296	406	382	205	377	349	677	3698
46	86	26	20	53	436	385	364	271	400	496	513	217	3266	546	36	27	75	36	418	270	426	431	293	405	263	9774	
47	21	16	31	76	312	372	278	202	295	310	225	73	2210	547	66	33	19	311	382	452	465	274	275	474	293	205	2955
48	49	30	17	104	314	274	214	214	285	325	553	220	384	220	325	73	46	25	95	449	238	258	380	315	329	540	2821
49	30	17	51	64	199	268	333	371	377	308	357	258	339	2640	563	171	82	144	424	322	323						

MADDEN MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
101	9	54	61	67	364	206	354	252	356	366	555	235	2879	601	20	15	13	180	300	491	418	353	328	266	273	56	2713
102	104	41	10	110	522	516	315	252	298	369	457	213	3206	602	126	38	65	122	321	417	345	230	291	288	198	294	2731
103	69	11	45	311	224	188	256	168	351	478	232	298	2631	603	212	23	16	167	593	367	450	233	202	293	357	236	3148
104	158	76	24	95	347	260	438	196	234	292	426	279	3025	604	28	8	32	18	242	288	257	263	255	228	473	362	2454
105	72	14	28	40	162	267	178	267	256	289	613	556	2741	605	34	58	10	149	237	372	331	432	319	432	337	71	2781
106	71	118	61	137	406	282	196	332	259	241	335	249	2687	606	50	142	179	88	293	326	391	315	384	240	262	2902	
107	21	23	4	46	230	407	483	461	257	224	310	102	2568	607	178	12	6	73	152	368	454	265	376	496	413	148	2941
108	43	113	43	49	304	210	267	227	559	473	146	2743	608	46	48	19	240	409	204	221	344	343	386	251	177	2687	
109	19	78	42	74	191	260	463	323	343	253	234	319	2689	609	17	5	13	33	263	237	222	416	413	374	583	332	2907
110	66	16	2	138	402	220	304	325	324	289	348	235	2669	610	75	74	26	42	343	238	162	273	339	276	319	33	2200
111	148	102	111	669	444	347	546	485	253	300	319	259	392	611	18	15	55	275	490	233	141	249	263	343	604	258	2943
112	126	44	47	414	494	302	313	332	252	372	449	231	3476	612	23	35	10	79	312	198	508	454	282	271	529	257	2957
113	126	8	33	52	226	372	219	390	339	490	296	30	2470	613	37	8	13	270	310	352	185	275	366	378	263	22	2481
114	15	8	33	52	226	372	219	390	339	490	296	30	2470	613	37	8	13	270	310	352	185	275	366	378	263	22	2481
115	39	50	36	126	283	390	320	270	209	271	453	219	2666	614	61	69	13	105	328	327	230	304	332	484	486	527	3264
116	58	18	29	88	172	272	335	292	327	462	437	86	2596	615	403	84	48	458	525	227	234	285	345	461	339	264	3672
117	40	41	42	38	206	333	405	419	247	274	423	254	2885	616	240	116	36	384	318	229	321	332	331	251	246	218	3022
118	25	43	24	130	304	349	164	287	389	308	386	125	2533	618	66	27	54	96	253	174	192	348	316	401	267	182	2376
119	32	84	24	66	274	311	480	245	386	239	476	89	2705	619	43	6	14	115	281	331	433	414	243	371	345	398	
120	67	9	21	229	448	391	330	391	447	316	396	214	3259	620	89	10	28	175	438	221	201	336	333	327	368	254	2779
121	50	16	27	35	258	211	432	219	267	210	306	73	2104	621	17	45	60	69	493	392	426	270	313	295	392	162	2934
122	66	51	94	127	277	559	352	358	313	469	303	98	3067	622	66	32	40	27	246	416	264	337	273	313	522	159	2734
123	68	28	25	111	359	474	202	312	272	385	853	180	3268	623	21	25	17	294	218	413	174	351	241	389	230	138	2531
124	24	33	18	161	348	422	443	465	302	341	383	147	3087	624	121	92	70	107	406	489	279	347	319	351	268	174	3022
125	33	33	31	84	184	384	235	287	311	425	289	405	2695	625	15	22	9	238	196	252	128	240	240	392	383	477	2591
126	134	18	63	184	315	189	286	415	276	618	291	89	2878	626	71	25	171	103	333	310	438	311	263	395	307	158	2923
127	63	26	100	244	298	375	215	228	313	396	199	2482	627	55	53	113	35	310	256	340	509	284	282	357	125	2719	
128	17	21	17	113	407	384	374	372	320	520	344	700	3645	628	82	47	76	215	500	292	291	343	287	360	331	197	3021
129	106	7	65	166	379	344	336	392	333	448	300	114	2990	629	41	16	6	183	242	310	392	306	401	466	254	336	2953
130	137	17	15	22	290	338	300	260	431	315	302	310	2737	630	103	35	7	94	451	260	559	359	258	387	301	166	2980
131	22	35	14	24	185	330	222	198	321	614	257	117	2355	631	49	17	22	150	192	200	248	338	312	259	127	2229	
132	62	23	25	60	250	196	410	307	365	413	196	476	2793	632	56	74	64	147	379	390	469	425	210	315	348	3138	
133	267	10	9	42	217	522	246	309	322	494	242	226	2903	633	92	61	44	115	408	336	418	323	275	484	250	101	2906
134	25	20	24	84	189	428	286	189	253	417	298	320	2533	634	8	32	36	88	245	473	275	367	275	365	102	2553	
135	50	14	64	179	325	553	168	321	393	329	456	144	3184	635	9	8	26	46	181	326	564	327	284	385	291	159	2606
136	9	30	68	67	262	468	365	312	363	244	463	200	2851	636	27	22	7	211	298	382	386	199	442	580	208	62	2824
137	23	121	86	60	432	388	465	340	269	222	191	245	2841	637	16	13	123	48	300	323	464	279	344	293	301	161	2665
138	40	28	15	19	98	220	115	260	473	388	520	653	2828	638	41	8	59	70	165	235	375	309	372	358	358	2598	
139	70	17	20	218	332	431	328	225	286	292	231	45	2494	639	101	39	23	175	319	377	307	281	677	461	3200		
140	12	30	25	47	226	222	411	335	260	323	293	234	2417	640	35	23	93	122	297	379	178	347	307	281	2436		
141	4	41	143	705	265	287	515	349	316	369	243	94	2365	650	3	20	74	400	401	336	333	358	439	253	106	2739	
142	78	39	50	97	381	266	356	300	295	253	361	211	208	2882	662	115	40	64	272	327	388	322	277	322	196	2957	
143	66	23	20	126	306	256	232	270	199	353	211	200	2882	663	24	94	16	6	187	321	275	388	322	409	464	338	2844
144	32	118	154	279	359	287	215	345	361	339	361	509	2957	652	127	57	30	151	231	399	488	393	335	391	231	351	3184
145	228	196	84	89	343	356	151	250	305	329	235	85	2581	653	436	19	20	374	315	328	309	376	397	339	98	2720	
146	207	5	7	11	247	266	380	381	368	344	296	2780	646	50	22	43	38	289	310	337	465	409	331	297	135	2726	
147	109	17	16	129	257	421	214	281	483	437	437	237	3038	647	63	33	16	57	264	418	334	190	279	323	639	723	3338
148	40	17	29	233	377	303	372	256	376	512	368	241	3177	648	175	82	67	48	224	216	350	278	223	261	553	187	2256
149	72	10	64	211	239	166	361	355	369	269	498	278	791	334	671	101	6	11	44	223	225	287					

MADDEN MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
201	91	43	193	244	275	226	142	208	349	369	459	172	2769	701	10	26	38	55	573	273	123	283	203	418	362	267	2630		
202	140	51	75	16	323	370	356	406	345	470	272	310	3133	702	199	66	39	81	341	226	327	286	349	289	434	614	3250		
203	60	125	37	214	556	399	468	253	276	384	248	255	3275	703	40	23	17	39	286	248	463	367	216	361	502	67	2629		
204	178	62	60	45	253	182	301	288	258	508	247	24	2476	704	3	7	19	97	343	286	349	392	399	406	340	848	3488		
205	43	32	40	115	268	158	224	399	333	655	301	279	2847	705	153	24	10	23	200	379	334	395	294	473	350	368	3002		
206	22	13	6	223	304	269	311	306	391	369	581	77	2110	707	117	163	93	287	231	271	339	246	361	514	372	303	3296		
207	83	87	16	74	299	280	285	206	216	175	313	706	8	44	52	132	424	367	441	295	378	369	600	210	3319				
208	48	11	62	150	333	310	487	437	364	349	365	163	3079	708	24	21	5	105	282	245	464	275	273	345	322	230	2589		
209	4	5	112	274	501	315	431	325	361	426	201	198	3153	709	63	23	4	59	434	350	586	364	363	277	259	44	2825		
210	61	159	24	80	428	207	400	305	376	496	294	274	3143	710	110	31	18	103	301	436	339	445	227	409	471	97	2987		
211	25	17	37	91	267	247	322	374	374	539	269	534	3093	711	36	32	21	85	188	189	85	233	244	354	237	331	2034		
212	86	41	24	89	305	346	324	322	383	443	405	123	2889	712	85	42	30	334	459	393	310	337	299	174	225	590	3277		
213	28	56	59	198	380	182	145	220	407	410	307	256	2648	713	168	125	43	238	316	391	398	200	350	379	710	145	3463		
214	36	22	18	335	415	324	229	399	381	501	315	88	3063	714	41	86	12	275	294	414	470	324	361	287	275	218	3057		
215	22	38	27	110	363	260	147	258	285	223	254	576	2563	715	49	23	14	113	382	409	508	309	448	494	333	144	3134		
216	11	13	16	118	259	318	189	276	250	375	226	117	2266	716	46	33	40	106	316	423	419	389	272	299	416	312	3081		
217	24	10	45	296	283	268	222	279	318	481	179	279	276	717	113	60	7	26	215	461	388	314	351	217	291	151	2658		
218	143	56	28	71	203	127	268	195	253	436	571	3297	718	178	73	39	53	427	419	475	343	257	285	359	168	3076			
219	140	11	98	58	301	310	223	378	232	262	269	190	2472	719	58	54	19	24	256	285	285	146	205	457	223	269	111	2107	
220	9	67	12	114	453	340	245	247	352	336	271	186	2630	720	61	20	27	35	271	235	325	313	276	288	240	262	2552		
221	83	63	28	111	205	479	487	346	228	253	461	354	3096	721	223	28	21	73	206	277	262	386	296	475	363	159	2768		
222	48	47	32	118	179	285	287	287	346	245	291	401	2565	722	36	10	1	87	181	241	393	456	493	456	221	466	3035		
223	329	30	45	51	307	361	249	313	300	173	241	321	2899	723	32	34	28	49	399	207	185	231	326	222	493	323	3081		
224	15	65	25	27	223	340	125	337	192	244	350	82	2025	724	57	98	49	60	235	382	295	259	409	402	402	164	2734		
225	174	55	47	22	212	207	416	235	282	260	304	183	2396	725	58	10	88	283	331	201	173	350	365	338	370	186	2753		
226	105	90	26	93	297	305	467	382	291	456	328	151	2891	726	63	7	15	81	278	371	180	248	402	617	268	231	2761		
227	158	25	88	218	531	467	308	242	290	481	391	204	3403	727	26	35	46	58	310	305	91	301	357	241	468	159	2394		
228	186	46	4	57	422	214	236	285	291	425	250	31	2446	728	13	14	31	16	351	155	157	157	284	245	517	352	245	2380	
229	8	82	52	115	418	373	271	282	344	326	240	124	3235	729	10	13	7	223	214	281	191	261	316	433	468	151	2573		
230	55	42	59	28	238	284	209	341	416	216	231	192	2313	730	48	31	26	291	261	293	420	339	298	497	270	421	3195		
231	39	127	34	74	325	263	119	265	311	269	480	155	2487	731	126	146	90	223	293	445	388	317	328	30	3048				
232	107	110	61	174	260	254	365	327	318	336	255	153	2730	732	24	82	13	63	283	292	387	259	201	224	553	302	2683		
233	19	78	23	49	374	300	218	274	391	368	310	382	2785	733	65	80	71	72	272	369	281	498	249	356	351	315	2967		
234	62	54	49	9	246	466	426	319	379	386	269	59	2724	734	14	18	44	351	471	478	178	204	322	206	370	287	313	2845	
235	18	70	22	383	315	263	400	385	406	301	365	201	30	2821	735	39	51	20	17	266	322	206	370	436	524	524	313	2845	
236	7	16	48	407	475	347	293	327	508	544	275	548	628	414	391	737	24	61	30	49	268	436	338	304	395	368	268	293	2712
237	86	7	103	258	327	293	508	544	275	548	628	414	391	737	24	61	30	49	268	436	338	304	395	368	268	293	2712		
238	293	7	14	63	188	244	135	211	276	324	317	236	2310	738	4	21	92	192	310	302	417	356	272	236	413	478	2785		
239	106	84	131	106	300	525	455	313	260	260	384	163	3100	739	207	33	17	119	212	235	294	347	345	246	388	287	2856		
240	5	59	53	300	505	301	281	255	278	323	344	478	408	302	740	126	80	40	40	40	364	339	345	346	375	351	351	3279	
241	45	40	41	176	211	362	347	347	274	378	258	466	270	208	2468	742	30	8	100	132	386	241	398	325	328	280	390	278	2686
242	119	49	37	75	255	353	157	244	290	347	259	152	2517	750	67	30	30	23	288	617	417	471	390	275	365	311	100	3262	
243	83	42	10	183	375	477	343	343	324	245	271	2751	750	48	38	24	17	32	23	286	176	319	421	197	361	206	332	2565	
244	15	43	42	104	399	253	295	267	357	335	56	2643	750	38	94	15	11	106	299	222	336	389	353	166	92	217	2523		
245	55	34	117	246	316	346	395	429	451	261	85	293	750	47	23	42	305	400	268	333	315	353	362	324	205	2844			
246	43	93	45	123	295	468	381	381	257	325	534	403	2817	752	36	65	82	133	345	369	350	373	353	367	373	2254			
247	69	22	47	73	254	303	467	367	383	378	364	721	3552	753	57	71	19	118	362	246	378	341	324	302	309	2805			
248	56	30	16	75	291	305	305	305	305	309	509	122	2694	754	89	16	98	239	307	307	307	317	317	351	351	2992			
249	66	19	9	56</td																									

MADDEN MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
301	15	8	10	43	527	238	323	324	407	290	392	121	2696	801	93	51	40	246	359	397	317	265	396	284	266	51	2764	
302	30	23	24	27	397	284	140	205	363	343	454	195	2485	802	48	43	30	63	472	259	274	370	253	360	247	51	2470	
303	21	68	59	103	602	179	367	417	409	478	279	52	3033	803	12	31	15	31	289	538	299	271	334	317	306	122	2564	
304	45	71	22	68	477	335	311	370	231	432	321	103	2786	804	32	6	60	88	377	360	141	424	428	234	237	86	2472	
305	188	85	20	270	432	344	344	262	223	186	447	177	3068	805	19	149	20	126	323	439	246	336	267	309	305	163	2701	
306	42	14	5	6	157	189	293	488	322	491	658	245	2910	806	12	74	26	23	194	384	311	384	301	273	481	337	2800	
307	24	19	63	102	445	315	186	253	272	250	215	57	2211	807	57	200	11	185	447	439	470	301	224	358	462	149	3303	
308	44	25	13	48	193	430	359	254	299	324	381	32	2401	808	33	114	48	102	379	202	392	320	264	537	447	129	2967	
309	62	143	251	43	256	505	357	323	325	351	464	267	3346	809	146	81	97	115	243	193	93	320	291	336	257	43	2215	
310	56	51	30	64	353	232	316	310	330	559	542	175	3018	810	-	1	5	4	96	554	320	470	495	310	281	291	354	3181
311	32	19	36	91	243	279	283	396	314	213	286	143	2355	811	57	95	38	37	244	259	176	172	251	358	303	99	2088	
312	185	149	103	206	420	247	223	143	285	268	411	591	3231	812	21	9	60	119	232	294	275	336	185	393	686	1064	3674	
313	322	11	23	130	366	196	258	291	297	260	260	528	2942	813	26	22	121	112	310	328	313	389	330	361	389	192	2893	
314	7	6	3	73	248	305	447	419	319	375	418	334	2953	814	32	52	13	115	306	336	533	473	287	311	285	223	2965	
315	24	15	36	56	412	233	291	498	354	452	352	157	2878	815	48	17	17	82	416	311	134	233	293	532	627	481	3191	
316	25	29	70	145	308	377	226	367	412	416	367	244	2986	816	124	78	18	56	127	280	202	335	427	607	216	144	2614	
317	14	68	70	120	212	396	380	419	236	296	389	274	2874	817	67	54	8	79	288	291	193	224	438	201	231	28	2101	
318	55	13	17	371	285	246	394	324	240	258	267	98	2569	818	31	18	23	246	435	316	341	372	358	280	270	226	2916	
319	51	25	20	59	341	301	519	443	401	503	343	44	3050	819	28	79	15	98	571	362	434	353	294	293	332	385	3241	
320	80	22	11	145	369	281	275	401	296	383	591	339	3192	820	85	34	50	48	378	444	405	356	332	247	494	389	3261	
321	68	86	81	82	195	301	313	176	267	470	506	310	2855	821	69	12	47	143	437	207	227	329	339	359	248	122	2539	
322	32	19	25	76	309	302	311	295	366	288	226	236	2522	822	206	24	13	186	319	214	180	228	266	366	299	82	3248	
323	32	80	16	280	249	129	191	292	292	463	344	269	2637	823	28	47	28	407	465	427	493	360	207	423	281	21	3668	
324	120	62	53	227	315	289	460	327	384	323	399	99	2912	824	72	55	23	81	425	286	347	447	346	377	494	417	3368	
325	7	21	17	102	231	277	174	304	340	330	315	268	2386	825	46	9	19	98	155	325	442	437	343	303	285	167	2557	
326	132	74	59	143	312	259	169	260	243	400	368	564	2983	826	38	35	26	134	283	385	239	197	354	317	507	116	2628	
327	207	24	69	125	285	259	433	393	310	232	283	106	2725	827	153	17	2	48	295	285	438	348	345	458	400	291	3079	
328	206	116	50	539	394	475	469	396	308	317	362	292	393	828	131	35	23	277	316	408	174	284	257	214	321	132	2570	
329	117	9	6	49	377	280	306	366	401	450	577	177	2679	829	52	15	16	32	304	349	290	294	348	472	429	317	2918	
330	27	5	25	71	306	338	442	394	326	406	290	346	2976	830	81	35	16	32	254	320	359	347	428	428	529	269	355	2924
331	291	33	30	55	284	413	367	352	366	409	346	389	3335	831	71	27	16	238	404	305	157	236	270	554	525	272	3073	
332	40	143	102	45	401	365	369	266	234	305	365	363	227	2862	832	321	61	120	252	398	302	266	322	350	452	220	50	3114
333	38	41	51	801	379	340	405	272	382	448	266	52	3475	833	20	61	24	102	376	430	441	162	325	311	211	169	2632	
334	54	58	59	194	348	246	306	116	351	305	304	113	2664	834	36	35	36	235	401	327	380	292	381	602	288	176	3188	
335	44	14	89	18	197	261	233	394	385	434	352	69	2493	835	26	28	65	132	348	383	391	339	385	326	716	505	3644	
336	37	2	52	235	274	306	385	251	330	398	374	243	2885	836	24	24	178	247	407	378	415	326	3465	345	326	3465		
337	111	13	35	142	250	238	257	472	378	307	821	311	3334	837	462	53	41	187	254	343	255	458	271	346	345	211	309	
338	66	51	53	75	392	451	491	372	405	624	247	332	3559	838	113	49	16	105	98	371	261	394	254	343	255	302	2736	
339	167	100	5	68	145	408	404	274	417	334	939	562	3829	839	8	11	13	13	56	417	422	350	337	209	208	2868	2868	
340	61	55	28	25	348	332	348	352	346	370	263	529	129	2923	840	71	89	37	48	259	283	280	447	356	368	276	2950	
341	25	23	68	180	368	321	272	303	227	323	315	137	2397	841	87	22	147	66	362	292	469	306	339	284	437	248	3248	
342	79	41	17	24	177	218	112	181	366	396	439	191	2193	842	88	38	266	219	147	110	274	265	353	207	405	357	3576	
343	134	44	68	67	333	265	341	359	242	381	508	145	2887	843	54	64	196	322	285	424	410	398	353	369	238	41	2972	
344	5	20	5	119	372	450	335	271	267	349	219	207	2619	844	260	47	22	54	303	164	154	339	347	294	174	130	2050	
345	62	91	60	12	300	438	281	132	244	342	247	269	33	2449	846	41	26	50	50	32	196	275	288	286	306	385	120	2351
346	362	7	9	29	60	390	319	550	328	322	226	263	190	2693	847	10	7	16	41	389	377	391	301	474	342	355	2840	
347	26	15	20	94	569	457	227	395	299	323	374	226	377	863	36	44	19	131	365	216	315	413	253	251	302	201	90	2587
348	94	73	80	111	315	361	340	360	346	372	198	476	420	377	864	36	56	99	105	103	251	302	401	430	402	90	2587	
349	77	26	28																									

MADDEN MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann					
401	132	28	15	188	312	237	254	382	317	330	497	222	2914	901	130	69	23	68	336	292	540	289	325	385	441	73	2969					
402	89	58	4	76	469	378	279	374	330	293	226	81	2657	902	28	21	12	140	472	191	124	288	291	542	310	136	2554					
403	116	27	100	88	247	340	414	346	211	203	43	2549	903	79	21	4	78	295	240	394	295	372	510	397	282	2965						
404	29	59	117	209	333	151	233	298	271	363	254	258	2574	904	31	15	43	93	306	307	224	282	254	471	286	97	2408					
405	12	116	84	106	284	505	567	325	458	557	427	654	4095	905	98	34	34	199	434	362	139	150	225	310	445	573	2938					
406	12	19	18	29	200	176	184	238	297	334	373	320	2200	906	33	107	69	77	390	343	238	202	262	458	286	494	2949					
407	139	133	38	96	551	392	278	244	251	377	297	34	2830	907	49	19	5	63	299	264	315	252	360	236	723	450	3137					
408	100	62	88	348	337	290	221	249	297	259	642	187	3080	908	128	42	5	37	228	302	284	336	362	465	612	213	2868					
409	67	50	52	67	344	459	382	282	340	149	744	370	3505	909	61	28	121	518	298	516	528	439	451	223	300	129	3612					
410	81	45	23	65	333	175	220	262	207	421	315	251	2397	910	13	11	5	37	228	302	284	336	362	465	612	213	2868					
411	68	13	46	158	514	322	181	310	302	388	378	74	2754	911	50	162	88	77	226	238	328	295	395	196	441	403	436	2939				
412	71	50	32	206	263	338	354	220	418	522	321	181	2976	912	212	41	26	49	236	301	193	415	285	373	379	290	2800					
413	54	124	81	25	266	341	402	458	371	291	259	161	2832	913	35	49	100	151	261	359	307	478	350	389	356	148	2982					
414	154	52	37	89	477	328	371	256	386	349	275	223	2997	914	31	44	7	55	255	179	370	321	345	379	238	264	2488					
415	37	57	24	64	279	459	563	451	417	405	266	186	3207	915	88	134	48	34	314	306	347	357	233	392	378	193	2824					
416	49	20	21	90	403	341	265	178	347	485	187	159	2545	916	114	21	34	132	194	468	496	363	313	358	652	415	3560					
417	10	75	10	130	346	302	340	220	270	249	221	266	209	2428	917	12	26	36	185	502	396	239	237	311	492	357	212	3005				
418	81	24	21	57	336	292	332	315	311	279	321	57	2436	918	46	113	48	159	236	424	313	272	340	319	428	155	2852					
419	112	22	32	40	313	357	169	294	271	408	193	74	2283	919	31	27	88	516	472	457	379	281	325	349	275	139	3338					
420	161	34	14	112	316	373	390	326	347	369	273	530	235	920	45	45	72	47	70	155	373	455	201	335	229	553	78	2613				
421	100	26	47	108	467	294	206	242	372	464	346	402	3073	921	65	47	30	126	253	236	142	214	333	402	281	135	2264					
422	62	29	29	450	527	353	290	323	256	254	280	302	3193	922	27	46	27	120	309	318	218	282	232	450	267	188	2484					
423	75	26	41	210	423	328	392	276	245	237	376	165	2793	923	18	39	45	27	293	265	365	189	267	510	300	91	2409					
424	68	24	22	284	240	135	72	219	263	393	479	199	2398	924	55	36	51	168	317	368	331	275	444	230	406	437	363	395	364	440	181	3058
425	3	21	12	66	270	341	365	283	421	400	391	201	273	925	58	35	44	87	321	424	181	239	370	390	292	229	2813					
426	56	29	21	194	449	332	330	351	246	397	371	143	2658	927	119	79	43	180	257	230	160	297	293	381	384	141	2464					
427	22	31	10	31	245	484	446	233	245	326	233	224	280	928	157	15	3	8	218	257	348	408	303	158	337	96	2308					
428	39	56	97	184	243	318	218	304	325	367	323	205	402	213	928	157	36	142	266	469	376	373	313	359	308	138	2835					
429	72	49	46	140	263	322	295	244	320	367	349	227	402	303	929	31	25	36	142	237	228	152	243	388	271	342	76	2414				
430	194	16	8	226	263	231	162	245	296	477	435	480	3033	930	104	92	46	117	355	228	152	243	388	271	342	76	2414					
431	47	43	7	101	486	375	211	335	333	367	369	266	320	922	110	17	27	45	219	318	328	312	195	225	225	206	2527					
432	34	28	25	73	328	328	396	196	275	297	326	250	202	2545	932	110	17	29	105	284	228	258	332	334	519	232	56	2476				
433	31	11	15	42	361	287	505	410	327	380	243	293	328	488	941	77	22	29	105	284	228	258	332	334	519	232	56	2476				
434	8	73	38	207	340	320	436	353	238	310	269	34	2625	934	114	20	12	28	236	301	415	334	348	341	492	276	307	107	2408			
435	90	125	25	49	353	544	427	434	221	180	299	205	2952	935	47	116	70	43	343	348	341	492	276	307	107	2408						
436	62	17	9	115	155	300	279	276	283	263	224	280	2262	936	36	42	62	35	267	423	337	341	247	270	215	559	244	310				
437	104	20	56	28	325	233	362	332	419	378	435	226	2918	937	19	56	27	393	423	337	341	247	270	215	559	244	310					
438	12	30	148	516	319	245	270	320	382	367	369	368	3064	938	118	44	34	239	349	217	247	248	199	429	619	155	2895					
439	78	107	14	18	240	165	337	412	245	446	315	360	2938	939	23	53	172	194	458	193	221	324	258	326	208	708	372					
440	34	28	47	54	406	374	374	324	387	230	66	2727	948	12	22	31	28	500	428	270	242	400	374	278	70	2655						
441	45	74	22	72	206	278	308	299	371	371	324	2475	949	19	86	29	141	211	320	411	354	266	154	421	402	2814						
442	56	14	15	143	224	242	380	299	371	371	324	2475	950	18	31	35	115	245	340	352	423	393	510	968	433	3865						
443	58	62	129	129	288	258	480	308	298	443	244	186	2672	951	67	7	26	81	580	295	199	323	327	321	124	2643						
444	45	26	36	113	346	357	318	408	303	301	382	152	2460	957	43	98	98	12	210	200	423	196	327	326	312	493	403					
445	38	33	52	350	220	352	329	374	304	345	309	212	256	189	2905	959	43	208	321	358	356	349	330	357	141	2415						
446	25	49	47	237	425	458	317	308	347	318	349	217	280	234	976	959	43	20	44	314	347	352	375	424	311	352	381					
447	50	25	17	17	347	231	287	367	291	498	452	118	2700	961	11	73	9	47	154	314	346	328	363	360	203	118	213					
448	37	16	12	15	30	271	218	308	375	320	347	211	281	231	973	961	11	73	20	317	304	347	359	330	357	141	241					

GATUN DOWNSTREAM MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
1	144	14	4	180	407	309	196	306	329	348	578	262	3076	501	62	43	223	118	292	318	216	337	339	309	216	2636		
2	44	43	59	64	328	251	222	317	357	393	315	154	2546	90	49	50	226	282	76	282	258	76	231	115	2352			
3	45	11	10	228	494	257	237	311	299	191	279	138	2055	503	18	75	6	30	217	243	376	368	333	376	213	115		
4	7	21	26	58	302	280	123	259	199	279	363	257	119	2647	505	19	31	34	47	207	259	431	370	263	593	495	3435	
5	58	34	35	203	263	174	203	269	283	416	448	359	2708	506	77	44	19	149	374	350	320	375	422	673	436	2980		
6	42	14	3	28	266	223	197	377	388	620	541	162	2621	508	84	23	136	94	282	350	305	321	372	274	376	213		
7	47	3	2	28	258	216	260	243	368	462	307	238	375	509	35	20	39	60	295	323	202	303	337	311	366	366		
8	110	59	146	155	182	258	216	284	307	395	323	411	388	2757	510	70	72	29	23	290	340	303	287	287	291	226	2226	
9	80	37	9	13	50	217	382	283	251	317	295	390	94	2375	510	11	25	19	59	362	326	326	287	392	179	171	2421	
10	72	12	13	50	217	382	283	251	317	295	390	94	2375	510	11	25	19	59	362	326	326	287	392	179	171	2421		
11	42	39	80	259	336	227	279	214	323	304	398	575	3075	511	11	25	19	31	189	282	227	231	242	270	265	256		
12	85	20	52	341	225	145	165	278	293	456	604	122	2785	512	122	18	19	83	306	199	268	262	374	481	396	198	2674	
13	15	7	15	164	257	327	310	306	279	274	305	192	2451	513	70	18	28	43	19	291	350	182	166	203	336	364		
14	86	28	13	145	286	342	286	222	350	364	317	124	2562	514	16	44	43	198	273	383	288	341	379	398	43	2843		
15	33	13	40	82	359	293	175	208	320	494	464	315	2013	516	58	50	17	187	245	370	308	241	387	387	310	2913		
16	157	84	51	116	398	255	271	226	350	459	431	315	2013	517	20	20	15	53	297	224	362	279	345	345	215	2957		
17	134	20	30	20	234	416	284	278	315	378	288	409	275	499	2808	518	13	45	121	339	213	326	269	327	302	285	2519	
18	50	30	10	116	331	221	199	180	277	346	290	29	2337	519	28	32	44	52	410	308	349	307	301	290	336	305		
19	73	31	21	216	350	325	199	180	277	346	290	29	2337	519	28	32	44	52	410	308	349	307	301	290	336	305		
20	36	24	17	123	319	291	146	146	325	359	374	189	199	2399	520	47	21	30	13	347	355	309	220	339	249	696	181	
21	51	63	14	64	256	235	130	273	298	349	608	172	2333	521	41	10	14	60	249	249	315	275	367	326	402	107	2522	
22	46	35	2	43	325	299	184	362	372	495	464	281	2908	522	111	12	6	104	447	348	235	231	343	343	401	202	2913	
23	53	24	50	181	327	204	282	282	396	260	169	182	2410	523	90	34	24	139	245	237	186	207	282	345	398	110	2175	
24	70	75	94	21	200	170	282	279	328	427	209	62	2215	524	16	4	9	102	242	472	253	198	305	247	501	266	2653	
25	34	17	16	33	295	202	200	193	323	370	270	336	148	2076	525	25	17	18	62	310	248	276	207	282	332	327	327	
26	18	10	31	104	312	192	178	272	298	393	246	165	2218	526	65	57	18	102	237	297	312	224	291	263	441	318		
27	21	11	27	310	209	300	366	269	355	287	192	2365	527	68	57	20	119	369	266	218	218	291	306	185	33	2063		
28	59	53	13	56	262	213	194	205	278	341	199	177	2195	529	103	11	60	174	257	290	190	219	301	224	118	2448		
29	96	50	14	76	364	341	151	260	265	387	336	76	2415	529	111	25	14	146	281	418	256	287	211	299	382	118	2448	
30	27	20	23	155	291	286	351	233	293	284	284	281	2908	531	22	18	20	347	399	355	231	257	204	245	392	234	2770	
31	109	43	24	33	105	159	278	233	291	311	318	413	342	2401	532	126	66	30	87	301	281	289	330	305	247	501	2357	
32	14	27	56	22	161	209	248	282	311	318	343	342	2013	533	39	8	15	107	242	472	253	198	305	247	501	2357		
33	175	44	30	417	254	237	189	198	240	407	354	127	2972	534	92	85	49	112	284	318	365	314	357	413	404	2754		
34	50	60	35	177	88	332	420	359	384	230	310	412	97	2846	535	224	23	14	54	218	284	318	365	314	357	404	2754	
35	110	32	82	88	332	237	249	154	278	275	281	612	131	2561	536	18	3	4	60	276	292	235	301	348	327	327	2063	
36	83	73	44	145	237	249	245	132	239	365	382	810	253	2887	537	344	69	17	35	187	217	295	290	353	327	327	2063	
37	28	24	21	98	290	245	327	256	288	287	479	337	443	2787	538	136	7	25	138	305	340	312	353	326	326	2063		
38	108	16	10	14	327	256	272	241	270	217	237	203	99	1949	539	63	53	135	223	376	197	200	293	243	395	308		
39	20	39	56	37	258	310	282	267	392	352	429	327	206	2076	540	108	15	23	255	367	303	351	295	388	267	384		
40	16	4	4	9	152	310	282	267	357	384	423	417	48	2866	541	71	32	20	57	267	282	286	286	286	286	286	205	
41	46	4	4	9	152	310	282	267	357	384	423	417	48	287	542	94	28	21	20	63	267	189	130	172	205	264	264	
42	60	31	108	57	264	357	337	308	330	447	320	501	456	564	554	155	22	21	22	246	280	249	177	326	393	228	234	
43	95	17	12	91	275	248	258	226	278	309	354	287	91	2757	551	47	30	35	59	192	257	227	205	293	158	58	2058	
44	224	43	28	61	271	273	294	290	295	463	425	299	2966	552	25	13	23	20	65	257	204	207	257	356	328	303	2633	
45	35	17	34	139	329	307	164	202	248	312	375	375	158	2520	545	42	23	57	36	358	238	341	396	267	346	346	2759	
46	82	21	16	64	284	317	243	243	284	364	463	503	206	2907	547	61	26	24	15	44	286	314	341	337	330	311	243	2323
47	24	15	23	142	213	245	238	238	284	351	326	353	208	2923	548	161	52	41	22	272	327	337	303	343	337	330	2271	
48	63	21	19	80	260	308	234	211	311	393	357	332	208	2946	549	8	15	52	24	226	327	335	303	348	344	344	2660	
49	41	47	74	143	320	234	219	269	239	277	349	336	148	2468	556	92	9	11	11	224	280	249	177	326	393	228	234	
50	42	13	16	56	236	360	380	348	348	454	361	111	1684	566	106	10	11	11	22	280	249	249	177	326	393	228	234	
51	63	32	35	118	169	263	380	348	348	457	381	44	2504	567	59	59	22	32	60	175	271	235	339	267	300	2502		
52	14	12	41	117	372	328	279	279	332	395	350	208	233	221	568	567	110	47	37	86	234	254	349	286	321	2570		
53	6	11	11	117	387	321	279	279	332	395	350	208	233	221	568	567	113	45	11	22	234	254	349	286	321	2570		
54	26	39	7	27	245	354	260	238	279	332	395	350	208	233	221	568	567	113	45	11	22	234	254	349	286	321	2570	
55	85	30	23	265	351	351	247	297	344</																			

GATUN DOWNSTREAM MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann			
101	11	39	48	63	321	195	284	232	329	353	554	229	2657	601	23	13	10	133	270	398	316	299	279	297	50	2397				
102	103	32	8	84	410	420	251	231	381	363	466	202	2853	602	109	29	50	108	289	340	272	217	275	299	199	245	2431			
103	69	11	33	227	217	182	223	182	323	453	226	248	2393	603	193	19	12	126	448	305	340	212	194	316	308	219	2764			
104	146	54	19	80	306	230	335	334	228	308	451	265	2756	604	32	8	23	16	246	249	221	247	244	259	513	350	2407			
105	74	13	21	37	181	234	171	256	246	250	268	370	234	2528	606	48	9	111	233	252	263	340	299	373	415	342	64	2501		
106	79	85	50	119	342	246	182	304	250	256	345	444	134	2554	608	67	163	12	54	169	304	342	233	345	465	406	136	2632		
107	25	20	3	35	229	332	360	279	280	221	565	444	296	2477	609	20	6	10	177	337	193	200	320	342	371	319	379	2729		
108	42	78	35	47	283	197	351	274	321	270	358	226	220	2456	610	77	53	21	37	309	216	160	262	317	285	347	31	2115		
109	22	55	33	67	201	230	351	274	320	306	297	376	220	2456	611	18	13	41	214	386	213	146	247	272	288	551	253	2722		
110	69	15	2	94	334	204	252	288	306	297	376	220	237	3345	611	18	13	41	214	283	189	384	377	304	322	378	18	2238		
111	140	72	92	452	353	289	406	404	247	313	340	227	237	3345	612	27	28	8	62	283	189	384	377	304	322	378	18	2238		
112	121	34	37	289	385	259	384	275	242	371	361	210	210	2968	612	41	9	10	189	273	293	274	260	340	360	271	316	271		
113	18	8	24	47	228	307	194	350	321	467	294	212	25	2282	614	32	48	11	82	292	276	202	207	264	322	437	340	2321		
114	34	36	28	105	263	320	257	246	202	295	483	207	441	432	79	2406	615	390	61	39	326	402	209	207	264	322	437	340	194	2686
115	80	16	22	75	185	238	270	261	307	441	294	233	243	2661	616	220	84	29	278	277	299	262	292	312	268	208	2552			
116	59	29	57	135	209	280	311	357	351	423	241	138	2547	617	27	13	31	40	353	289	349	320	371	382	388	272	158	2251		
117	44	31	33	36	301	321	228	400	306	306	413	119	2373	618	66	22	41	86	245	274	182	318	300	388	356	350	2682			
118	27	32	19	105	275	291	160	272	358	353	526	520	89	2490	619	43	7	10	89	260	278	205	187	307	314	324	389	235	2777	
119	33	59	19	58	260	264	361	218	323	353	526	520	203	2876	620	90	10	21	137	358	205	187	307	314	324	389	235	2777		
120	64	9	15	167	361	321	263	339	405	306	423	203	203	2876	621	21	34	47	65	400	323	324	299	307	314	324	389	235	2776	
121	52	15	20	32	253	198	333	205	252	254	344	69	2017	621	21	34	47	65	275	339	221	300	320	322	322	389	235	2776		
122	61	37	74	115	260	457	272	308	297	450	303	84	2718	622	65	25	31	21	215	212	316	164	321	321	321	322	389	235	2687	
123	63	22	19	91	313	384	181	286	261	380	370	780	183	2952	623	33	21	21	215	325	321	321	321	321	321	321	321	321		
124	28	26	14	123	302	344	333	396	329	393	402	138	2734	624	109	64	57	99	345	397	307	302	346	321	393	314	141	2628		
125	52	26	24	73	232	180	305	234	292	292	410	229	251	251	2658	626	75	21	138	104	313	264	275	248	296	325	385	179	2701	
126	131	16	48	152	282	183	242	167	267	624	275	275	275	275	275	627	54	39	181	395	252	241	304	274	357	345	283	2586		
127	57	21	20	83	237	256	294	205	218	326	418	187	2322	628	78	35	60	181	395	252	241	304	274	357	345	283	2586			
128	20	18	13	90	342	316	293	320	346	491	331	385	3182	628	78	35	60	181	395	252	241	304	274	357	345	283	2586			
129	112	8	48	138	324	288	268	340	315	427	302	100	2669	629	43	14	5	127	229	264	304	266	346	386	309	2777				
130	121	15	12	20	276	284	246	241	289	307	323	281	2513	630	99	28	14	5	127	229	264	304	266	346	386	309	2777			
131	25	27	11	21	201	277	198	204	300	607	242	95	2208	631	49	15	17	118	190	217	304	296	346	386	309	2777				
132	57	19	19	52	251	188	208	303	474	320	235	187	2633	633	90	44	35	100	344	283	229	260	342	386	309	98	2365			
133	250	10	7	35	221	423	208	257	319	235	193	240	411	302	280	340	324	634	10	25	28	76	239	267	309	141	2324			
134	27	17	18	71	198	348	235	193	303	363	477	442	133	2877	635	11	9	19	19	146	266	314	299	305	318	348	447	2407		
135	52	13	48	148	289	451	158	303	363	353	477	442	133	2877	636	29	18	6	146	266	314	299	305	318	348	447	2407			
136	11	24	52	64	253	380	283	272	327	258	253	253	2475	636	67	17	93	49	283	273	320	344	337	345	369	309	2777			
137	27	85	71	60	365	320	348	258	325	421	359	352	595	2708	638	42	30	93	65	182	213	295	320	347	369	321	321			
138	42	23	12	71	173	203	128	257	307	270	302	241	386	223	2525	639	99	30	144	27	309	343	321	347	369	321				
139	79	15	15	161	290	351	296	307	315	324	353	384	223	2525	640	40	19	61	26	255	288	225	245	293	321	347	369			
140	13	31	115	475	240	248	305	288	288	305	324	363	312	209	2968	641	9	17	48	39	264	315	276	292	321	347	369	2412		
141	43	15	12	169	302	204	291	228	178	307	296	269	261	83	2191	650	4	17	48	39	264	315	276	292	321	347	369	2412		
142	80	29	11	54	397	228	178	307	324	361	462	483	221	2822	651	59	17	48	39	264	315	276	292	321	347	369	2412			
143	218	97	22	179	307	348	270	315	351	340	350	397	186	2943	650	91	61	25	60	351	254	236	282	307	321	347	369	2412		
144	22	88	98	131	445	281	370	351	325	363	328	382	459	2711	652	118	118	45	24	123	226	326	323	321	321	321	321			
145	22	88	98	131	445	281	370	351	325	363	328	382	459	2711	652	118	118	45	24	123	226	326	323	321	321	321	321			
146	86	9	36	306	296	222	236	323	227	268	335	465	410	25	2452	653	30	86	19	36	313	263	295	307	323	347	369	2412		
147	107	15	12	201	313	243	247	307	321	321	321	321	321	321	2740	654	30	86	19	36	313	263	295	307	323	347	369	2412		
148	43	22	12	244	281	219	231	256	256	256	256	256	256	256	256	256	655	16	19	51	151	226	226	226	226	226	226	226	226	
149	11	28	43	149	342	281	281	344	363	363	363	363	363	363	363	363	656	16	19	51	151	226	226	226	226	226	226	226	226	
150	22	24	12	216	185	221	190	231	256	256	256	256	256	256	256	256	656	16	19	51	151	226	226	226	226	226	226	226	226	
151	10	39	18	36	306	296	222	236	323	227	268	335	465																	

GATUN DOWNSTREAM MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann				
201	96	33	163	215	257	208	146	323	356	471	166	2650	701	13	21	29	51	447	240	133	272	198	425	367	241	2436					
202	132	38	59	18	301	306	280	350	325	446	272	262	2787	702	186	48	31	73	304	208	211	370	503	66	2414	2016					
203	61	87	31	169	428	328	351	226	261	379	251	2786	703	47	19	13	34	270	222	352	308	368	379	351	719	3087					
204	163	45	48	45	248	178	251	261	247	500	241	76	2303	704	5	7	14	78	302	248	278	338	368	379	351	324	2751				
205	40	24	30	5	151	271	236	255	273	359	351	578	81	2596	705	157	21	33	40	113	353	304	334	256	348	351	211	2943			
206	25	12	5	151	271	236	255	273	359	351	578	81	2596	706	11	33	40	113	353	304	334	256	348	351	211	2943					
207	78	61	13	62	275	243	238	205	208	325	354	74	2034	707	114	115	80	77	261	220	353	347	337	337	285	277	38	2448			
208	46	11	45	127	295	264	366	365	341	338	383	152	2734	708	27	18	4	3	44	360	292	437	294	224	412	468	93	2696			
209	6	6	82	220	395	268	329	278	335	403	192	157	2671	709	63	19	3	44	360	292	437	294	224	412	468	93	2696				
210	58	111	21	70	358	195	338	263	346	464	294	234	2751	710	95	24	14	78	302	248	278	338	368	379	351	211	2943				
211	28	15	27	79	254	223	262	323	347	509	264	436	2766	711	37	25	16	70	198	183	106	240	297	324	359	241	278	1986			
212	88	31	19	75	279	289	261	283	353	414	410	226	2450	713	166	88	36	187	281	321	306	195	222	363	670	151	3086				
213	30	41	47	163	324	179	150	224	370	320	205	225	354	714	43	61	10	192	264	337	352	347	337	285	277	38	2448				
214	38	32	19	14	229	340	274	202	357	355	469	315	76	2688	714	43	88	326	334	378	261	401	371	346	131	2715					
215	23	28	21	91	315	231	149	251	271	253	275	494	2401	715	50	19	11	91	286	345	318	329	327	315	309	103	2405				
216	15	13	12	92	246	269	176	260	241	375	337	106	2142	716	46	26	30	30	91	286	345	318	329	327	315	309	103	2405			
217	25	10	33	277	265	245	227	217	264	324	496	176	2561	717	113	44	6	22	221	374	298	327	347	324	302	251	2216	2186			
218	136	41	22	62	210	141	233	199	240	430	552	823	3088	718	158	52	32	49	361	342	355	288	302	247	214	264	302	251	2216	2186	
219	154	11	71	57	280	264	198	339	228	287	288	170	2350	719	58	40	15	17	20	31	261	241	224	341	284	364	143	2573			
220	12	48	10	89	370	285	211	233	327	323	300	225	2450	721	205	23	16	62	211	241	224	341	284	364	143	2573					
221	79	46	22	93	209	387	362	289	221	280	492	341	2821	722	37	10	1	59	189	217	307	393	441	403	219	378	2654				
222	54	36	25	99	190	246	231	296	261	322	264	317	258	2410	723	37	26	22	44	343	196	177	229	305	249	530	86	2242			
223	311	24	35	48	284	300	213	283	285	314	190	278	380	79	1996	724	56	68	40	57	235	314	241	240	304	393	410	153	2511		
224	19	47	20	25	228	222	195	323	217	266	280	329	169	2253	725	58	10	65	65	222	290	191	169	320	341	329	389	175	2558		
225	153	40	37	22	222	195	162	247	226	285	300	255	141	239	332	134	2577	726	63	7	11	65	260	307	169	289	333	360	503	162	2344
226	100	64	21	79	273	261	253	245	275	345	341	190	186	2994	727	28	27	35	54	286	260	186	289	333	360	503	162	2344			
227	142	20	67	181	414	380	248	227	274	324	250	23	2242	728	16	13	23	5	210	242	220	244	278	250	298	420	464	145	2391		
228	172	35	4	43	353	350	309	227	258	321	323	789	135	2919	729	13	12	5	52	210	242	220	244	278	250	298	420	464	145	2391	
229	9	56	41	101	350	309	239	246	190	309	381	253	222	164	2167	730	49	24	20	210	242	220	244	278	250	298	420	464	145	2391	
230	57	32	46	28	239	246	190	309	381	253	222	164	2167	730	50	26	22	44	343	196	177	229	305	249	530	86	2242				
231	40	88	29	66	311	233	130	259	294	384	284	250	2400	731	122	102	127	91	226	255	302	235	195	263	379	306	2539				
232	103	78	50	148	247	226	289	285	300	334	278	250	241	2267	732	24	57	52	265	252	302	330	237	286	348	327	286	2747			
233	21	55	19	43	326	258	206	325	349	366	277	51	2419	734	18	16	14	97	343	395	326	327	187	332	515	348	216	2259			
234	65	40	39	10	249	378	322	273	349	357	383	194	22	2426	735	42	38	16	15	261	273	277	282	286	328	529	150	2535			
235	18	49	18	262	277	232	266	288	300	301	386	104	2421	736	58	18	11	11	15	286	277	237	282	286	328	529	150	2535			
236	7	14	35	286	348	252	381	380	369	341	356	386	3545	737	27	44	24	24	258	277	237	282	286	328	529	150	2535				
237	80	8	76	208	289	252	381	380	369	341	356	386	3545	737	7	18	70	163	274	340	305	320	320	320	320	320	264	2550			
238	284	8	11	51	198	219	141	218	284	321	281	416	158	2798	739	191	26	14	94	350	346	200	258	320	320	320	320	320	320	264	2550
239	102	60	60	110	103	277	242	226	289	323	293	239	206	2693	740	219	57	30	19	266	462	323	376	320	318	414	521	337	2723		
240	8	8	43	42	228	396	356	323	359	386	300	262	280	226	276	740	69	24	78	120	231	239	280	282	312	327	327	2723			
241	30	31	32	32	143	247	227	260	289	314	304	260	280	226	276	741	69	26	122	196	275	225	276	220	392	319	369	217	2586		
242	125	38	29	67	247	242	221	273	275	345	350	45	287	751	41	17	18	206	459	341	360	363	320	320	320	320	320	320	320	320	
243	85	32	8	133	319	387	283	221	271	323	356	305	45	287	752	37	23	47	120	265	263	367	195	252	376	382	110	2191			
244	19	32	32	17	205	197	267	275	345	321	391	415	263	293	753	16	30	31	83	308	235	276	317	294	390	349	60	2145			
245	27	27	27	36	106	272	272	324	375	345	321	106	2622	754	46	66	119	305	305	305	305	305	305	305	305	305	305	305	2666		
246	41	16	34	64	246	246	259	353	476	376	345	477	112	2841	754	82	41	100	121	218	305	205	211	315	199	297	587	183	2503		
247	64	18	36	66	246	246	259	353	476	376	345	477	112	2841	754	82	41	100	121	218											

GATUN DOWNSTREAM MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann				
301	21	9	8	35	418	217	264	286	372	289	420	118	2456	801	95	39	32	190	308	325	255	244	361	286	283	45	2462				
302	32	19	18	24	344	247	144	213	334	333	470	190	2367	802	44	32	23	56	385	230	232	323	244	363	252	44	2231				
303	24	49	47	93	459	178	294	359	376	442	282	43	2646	803	13	24	43	79	326	299	143	384	393	250	231	76	2285				
304	40	50	18	59	387	282	253	322	431	326	91	2484	804	33	7	43	79	289	357	210	299	257	320	323	148	2443					
305	164	60	16	195	351	354	271	240	215	233	492	180	2770	805	20	103	102	208	315	251	332	288	289	506	322	2620					
306	45	13	4	5	183	183	183	247	437	471	610	241	2747	806	14	52	21	10	137	362	357	351	259	217	366	471	144	2880			
307	28	17	47	40	204	350	280	233	282	326	401	22	2216	808	35	79	40	92	327	192	308	253	331	434	363	252	44	2231			
308	40	20	10	40	204	350	280	233	306	344	476	256	3032	809	132	57	79	109	238	186	112	301	279	337	267	37	2134				
309	54	98	226	52	254	410	276	282	310	540	511	167	2766	810	2	6	3	67	427	243	240	249	312	317	325	112	2340				
310	60	38	24	57	312	212	239	276	310	344	476	133	222	811	60	67	31	36	243	229	169	190	257	320	323	148	2443				
311	35	17	27	78	237	243	237	347	299	244	315	132	3007	812	23	9	43	104	229	253	232	298	181	407	645	914	3337				
312	168	104	87	178	348	222	200	167	267	285	440	541	3007	813	35	20	25	95	108	283	276	255	337	313	352	404	199	2656			
313	320	11	17	104	315	188	225	266	282	279	277	453	2736	813	34	38	11	89	277	282	297	394	277	312	301	199	2617				
314	10	7	2	51	239	92	368	268	175	243	260	274	222	55	2048	807	62	144	10	137	362	357	351	259	217	366	471	144	2880		
315	28	14	26	50	350	212	244	448	335	427	358	142	2634	814	49	15	13	67	349	265	243	186	303	389	566	203	114	2402			
316	27	23	53	126	280	311	198	326	377	387	378	223	2708	816	127	57	15	48	152	243	186	303	393	227	249	151	2982				
317	17	49	56	108	215	324	294	359	231	312	412	258	2635	817	62	39	7	61	267	251	231	335	280	304	354	354	281				
318	58	12	13	247	256	221	308	282	232	283	285	87	2284	818	29	15	17	179	354	229	208	299	330	330	325	373	2979				
319	48	20	16	50	304	258	389	369	370	468	345	38	2673	819	31	56	13	79	439	301	304	313	266	525	103	2323					
320	69	18	9	108	315	244	232	200	167	267	285	440	541	3007	820	86	27	39	46	330	260	360	196	204	319	349	254	103	2279		
321	73	62	66	79	205	257	255	185	252	252	460	493	291	2678	821	74	20	10	135	282	200	173	227	277	517	517	71	2734			
322	36	17	19	65	282	258	279	262	339	292	233	200	2281	822	178	29	35	22	278	369	348	367	300	327	363	500	386	3032			
323	34	57	13	198	234	184	272	278	449	344	239	2449	823	29	35	18	68	355	248	277	386	324	306	326	314	522	117	2459			
324	116	46	42	181	281	250	349	279	273	255	221	222	2527	825	51	10	14	14	79	172	226	338	369	326	323	432	403	264	2761		
325	26	53	47	124	282	230	165	245	234	350	419	234	286	826	39	27	20	108	262	262	247	335	251	353	125	2388					
326	127	209	53	111	265	250	332	333	295	257	308	375	371	291	295	20	13	12	27	283	291	239	265	324	445	429	288	2668			
327	209	81	41	366	324	385	349	331	293	320	369	418	161	106	231	200	2281	822	178	20	43	249	203	287	301	389	484	267	297	2628	
328	182	81	41	366	324	385	349	331	293	320	369	418	161	231	200	2281	823	178	20	43	249	203	287	301	389	484	267	297	2628		
329	116	10	5	37	326	244	252	250	303	340	387	357	246	296	824	51	10	45	19	85	324	320	332	324	313	317	318	318	317		
330	27	6	18	60	281	283	335	332	308	340	387	357	246	296	825	51	10	45	19	85	324	320	332	324	313	317	318	318	317		
331	275	26	23	49	268	337	285	303	288	319	326	332	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326			
332	44	101	87	48	347	347	317	317	308	321	324	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325			
333	41	31	39	502	311	285	312	312	305	320	352	117	2486	824	36	27	28	49	116	306	315	301	291	355	318	318	317	317	317		
334	47	47	61	159	307	222	253	147	320	305	361	62	231	825	315	35	45	151	241	241	241	241	241	241	241	241	241	241			
335	45	13	66	19	213	231	206	249	320	308	382	385	223	256	826	316	31	55	45	151	241	241	241	241	241	241	241	241	241		
336	35	3	35	181	253	261	300	230	324	320	369	418	161	231	827	317	37	13	13	84	241	241	241	241	241	241	241	241	241		
337	108	12	26	116	240	215	222	222	423	354	354	371	371	321	828	318	11	11	10	45	151	311	311	311	311	311	311	311	311	311	
338	72	39	41	70	337	336	366	366	310	371	372	377	377	321	829	319	12	12	12	31	32	298	225	225	225	225	225	225	225	225	225
339	156	70	50	52	165	292	279	346	335	317	313	277	277	277	830	320	19	19	19	56	171	245	322	322	322	322	322	322	322	322	
340	72	41	21	18	138	258	300	331	309	343	348	309	250	831	321	28	28	28	198	338	225	225	225	225	225	225	225	225	225		
341	84	32	12	67	261	232	286	285	320	336	376	376	376	376	832	322	27	27	27	151	33	228	228	228	228	228	228	228	228	228	
342	84	8	21	69	257	372	268	327	331	326	322	161	252	833	323	21	21	21	151	33	228	228	228	228	228	228	228	228	228		
343	55	33	13	21	195	202	126	220	312	235	382	508	143	2666	834	486	34	34	34	23	31	219	375	375	375	375	375	375	375	375	375
344	61	35	13	64	300	234	274	274	246	255	315	352	352	352	352	835	325	31	31	31	143	358	251	251	251	251	251	251	251	251	251
345	65	32	16	74	285	298	328	328	305	324	324	324	324	324	836	326	30	30	30	45	151	351	252	252	252	252	252	252	252	252	252
346	66	17	27	22	242	242	242	242	296	346	434	430	21	290	837	327	31	31	31	43	151	351	252	252	252	252	252	252	252	252	252
347	57	11	37	139	365	258	3																								

GATUN DOWNSTREAM MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
120	23	12	140	278	215	220	340	302	329	513	219	2711	901	122	50	19	59	301	252	404	242	303	372	453	70	2647	
89	42	4	57	378	312	232	330	313	300	233	238	902	74	29	18	106	379	185	134	278	278	528	303	117	2364		
103	22	77	83	242	245	318	274	259	259	219	272	904	34	14	31	81	280	217	308	258	343	480	233	2674			
27	42	93	179	294	158	209	274	259	259	219	272	905	88	26	11	57	344	274	235	205	248	447	285	406	2654		
15	80	69	99	266	410	419	266	409	519	413	561	3525	905	31	73	56	73	336	287	207	205	248	333	573	368	136	
16	17	14	26	213	174	176	234	280	334	393	295	2172	906	53	17	25	155	355	275	233	257	234	333	257	749	450	
136	94	32	85	428	323	231	230	239	375	305	29	2506	907	132	3	49	275	273	257	234	263	244	461	284	83		
86	44	70	265	292	250	197	238	280	277	663	199	2860	908	68	23	95	368	265	419	390	360	409	244	335	122	2506	
69	37	41	62	307	372	295	249	316	341	714	372	3175	909	15	11	4	29	229	258	237	298	338	439	586	207	2650	
86	34	19	56	299	174	199	248	200	422	318	219	2274	910	52	14	74	75	228	216	266	264	190	442	403	387	2711	
67	12	34	130	402	273	171	247	287	287	378	389	69	2499	911	204	32	20	44	235	258	179	378	276	368	393	266	2653
67	37	25	160	247	283	279	209	376	487	318	156	2643	912	38	36	79	134	248	298	250	427	333	573	368	136	2719	
54	86	67	26	262	285	310	396	348	295	275	143	2545	913	33	33	93	40	292	261	276	309	227	391	388	178	2574	
142	39	29	78	385	277	291	233	353	337	286	196	2646	914	21	25	108	200	379	369	299	296	351	644	400	3196	2675	
38	42	19	56	264	172	417	370	383	380	271	160	2772	915	53	25	18	146	347	306	295	292	471	356	453	150	2610	
6	49	17	16	74	340	286	224	187	319	416	170	119	2261	916	16	21	21	139	345	252	247	317	318	249	304	383	1281
12	52	8	99	302	259	272	245	239	253	292	191	2222	917	47	79	39	133	230	258	179	378	276	368	393	266	2653	
7	79	20	16	49	302	252	267	278	294	300	348	218	227	919	33	22	67	359	371	372	293	298	304	344	598	82	2456
8	9	101	18	24	37	289	284	308	302	282	324	357	282	447	920	45	51	37	64	174	308	211	308	386	286	118	2148
0	137	26	11	89	284	308	302	282	347	343	348	350	2783	921	63	35	23	104	242	214	146	221	221	356	445	265	2224
1	102	22	35	94	378	253	187	234	343	277	303	272	2758	922	28	34	21	99	280	270	195	251	497	295	78	2224	
2	64	48	24	305	400	294	240	287	246	265	415	161	2542	923	21	25	37	29	279	234	289	189	251	497	295	2224	
3	76	22	31	165	347	277	270	304	245	367	717	184	2939	931	52	28	39	138	284	304	265	249	364	348	457	173	2745
4	68	20	17	204	229	147	96	232	252	387	482	191	2323	924	59	74	51	80	292	219	172	235	372	301	210	2604	
5	4	18	9	53	257	285	286	306	306	318	320	321	331	2611	926	238	93	51	80	281	280	373	291	124	2308		
6	57	23	16	147	362	280	265	306	238	393	379	131	2404	927	112	56	34	146	243	210	158	281	280	309	391	96	2236
7	26	25	8	26	244	392	336	212	233	321	347	201	33	27	928	141	14	2	6	228	228	278	553	297	209	391	96
8	24	41	77	158	236	269	194	229	225	327	401	233	242	929	33	20	20	117	250	310	291	279	352	321	124	2530	
9	62	36	35	118	250	272	259	264	265	461	428	427	2812	930	97	64	37	102	203	211	280	306	273	303	2295		
10	180	14	6	157	244	211	160	240	280	367	717	184	2939	931	15	17	74	185	203	211	280	306	273	303	2295		
11	52	33	19	63	295	323	179	259	266	347	246	167	235	2325	932	113	16	20	41	224	283	281	334	324	322	309	206
12	38	23	11	11	36	249	380	310	310	369	245	78	2378	933	77	19	22	88	258	336	349	375	324	316	337	151	2608
13	32	11	11	36	296	371	332	299	299	321	321	282	293	213	934	98	17	9	24	258	336	305	338	325	322	309	2189
14	9	51	30	163	313	444	326	369	217	345	293	131	2404	927	42	32	310	290	272	316	341	309	352	322	312	2295	
15	35	78	21	44	313	444	326	369	217	345	293	131	2404	927	935	45	80	57	48	35	260	241	283	272	322	312	2295
16	63	15	7	87	172	257	233	254	254	327	401	233	242	929	33	20	20	117	270	301	202	215	237	203	361	153	2683
17	100	18	42	28	300	213	287	289	382	358	448	216	2680	937	20	41	22	178	306	301	202	215	237	203	361	57	2265
18	15	24	117	373	278	220	230	287	353	352	352	300	325	2736	939	26	39	141	173	373	303	361	352	326	303	2279	
19	73	74	12	16	244	167	274	359	240	440	502	335	235	2736	939	26	39	141	173	373	303	361	352	326	303	2279	
20	40	36	50	347	309	173	237	337	392	371	91	2405	940	52	5	12	119	291	377	334	303	397	557	95	2910		
21	44	10	5	37	198	260	193	236	390	294	275	221	345	288	218	423	949	20	25	25	237	297	367	359	543	339	2395
22	48	9	16	211	359	294	275	321	345	356	407	117	2340	950	50	84	84	110	245	323	297	366	359	543	339	2395	
23	166	34	21	372	291	296	257	349	314	279	272	180	2723	960	123	30	50	300	265	311	296	366	359	543	339	2395	
24	45	26	40	257	214	292	214	327	324	317	372	180	2723	960	61	91	26	39	173	257	166	298	322	357	327	2280	
25	46	27	36	185	347	372	324	273	279	484	440	110	2502	961	13	51	8	39	173	257	166	298	322	357	327	2280	
26	47	27	16	315	315	211	241	323	329	327	281	431	165	2678	962	294	31	50	117	260	315	276	304	349	374	72	2502
27	45	67	10	31	147	253	303	335	251	349	366	271	2605	963	196	26	51	301	260	304	242	293	304	349	302	2151	
28	46	41	10	31	280	233	279	276	324	327	329	301	321	353	232	447	963	196	26	51	301	260	304	349	302	2151	
29	46	41	10	31	315	212	276	253	295	406	501	279	112	2056	963	196	12	6	75	443	230	276	322	357	327	2151	
30	46	42	10	31	316	249	266	243	287	321	424	302	143	2463	973	111	15	21	139	325	173	276	322	357	327	2151	
31	47	11	18	22	272	292	201	307	329	467	330	426	746	1397	980	14	44	28	9	32	258	252	280	304	349	302	2151
32	47	11	18	22	295	225	114	233	239	403	626	61	2452	981	33	84	30	90	293	265	324	308	349	302	2151		
33	48	11	18	22	295	225	114	233	239	403	626	61	2452	981	33	84	30	90	293	265	324	308	349	302	2151		
34	48	11	18	22	295	225	114	233	239	403	626	61	2452	981	33	84	30	90	293	265	324	308	349	302	2151		
35	49	11	18	22	295	225	114	233	239	403	626	61	2452	981	33	84	30	90	293	265	324	308	349	302	2151		
36	49	11	18	22	295	22																					

GATUN TOTAL MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg		
1	175	15	6	179	394	337	207	314	331	350	561	277	3145	501	64	49	239	136	318	337	228	345	340	310	226	184	2774		
2	45	49	62	69	346	269	240	360	395	312	168	2640	502	98	55	52	119	225	295	66	288	265	464	236	141	2303			
3	46	13	12	237	405	288	343	304	329	342	213	2843	503	19	88	7	28	190	252	389	375	333	377	221	21	2408			
4	9	25	29	59	319	298	120	266	212	277	362	153	2129	504	4	55	64	62	262	328	206	295	319	391	358	329	2670		
5	61	38	61	92	379	405	331	337	289	357	261	133	2743	505	81	49	49	155	381	376	325	380	424	299	520	507	3517		
6	44	16	38	221	286	180	223	279	289	414	434	374	2796	506	507	254	5	14	10	302	323	228	376	276	662	411	194	3054	
7	49	4	3	24	264	234	211	381	389	617	512	155	2843	507	89	26	141	105	304	367	362	320	272	303	355	329	2696		
8	122	66	148	178	154	266	230	268	252	366	450	175	2675	508	36	23	43	63	312	212	340	268	296	753	338	329	2670		
9	85	42	11	42	260	232	312	317	399	327	403	405	2834	509	74	83	31	23	96	294	366	313	293	287	295	83	2237		
10	78	13	15	49	198	391	301	259	322	297	385	105	2412	511	30	21	59	368	290	356	336	290	391	191	189	189	2534		
11	43	45	83	292	363	245	307	220	331	307	392	585	3212	511	13	30	21	200	311	241	252	250	279	266	420	276	2713		
12	94	22	55	380	238	146	179	288	298	453	579	132	2864	512	142	43	34	200	311	241	252	250	279	266	380	210	2760		
13	17	8	18	172	275	343	335	315	283	275	307	211	2559	513	74	21	22	85	326	212	297	272	379	482	380	210	2760		
14	94	32	15	148	310	361	307	228	357	367	314	137	2670	514	29	49	81	52	305	367	187	163	222	365	267	195	192	2528	
15	34	15	44	87	316	183	212	328	492	279	102	2462	515	18	51	46	213	302	399	308	349	380	384	48	2934	3039			
16	191	96	54	199	390	279	297	233	261	416	338	3122	516	59	57	19	194	318	376	320	248	395	331	321	317	2507			
17	158	22	32	19	19	422	300	286	355	388	57	2536	517	21	23	17	53	311	238	359	280	331	303	290	275	2641			
18	51	34	12	116	351	237	197	297	402	413	275	513	2898	518	44	17	27	126	262	216	192	272	270	389	196	85	2049		
19	43	45	83	292	363	245	307	220	331	307	392	585	3212	511	13	30	21	200	311	241	252	250	279	266	380	210	2760		
20	78	35	28	19	127	342	312	148	332	361	377	219	2499	520	49	24	33	12	385	335	378	318	304	291	336	105	2570		
21	53	73	15	63	261	269	130	280	303	349	590	185	2571	521	125	13	63	205	377	332	226	347	251	689	130	2907			
22	47	40	3	37	337	199	193	260	373	495	445	295	2949	522	97	38	26	146	402	380	230	350	436	387	216	2966			
23	55	27	54	199	353	219	312	293	402	265	184	203	2566	523	18	6	12	103	251	249	295	187	244	426	382	123	2295		
24	75	86	95	21	163	171	313	290	332	427	217	70	2299	524	18	6	12	103	251	249	295	187	244	426	382	123	2273		
25	35	29	19	32	306	213	218	195	332	273	336	163	2150	525	4	20	21	63	327	314	432	301	348	2312	253	2507			
26	19	12	15	111	335	204	192	281	303	392	250	181	2435	519	72	65	20	104	239	311	338	320	320	474	255	27	2455		
27	22	21	14	25	321	222	332	373	272	354	280	209	2453	527	72	65	20	104	239	311	338	320	320	474	255	27	2455		
28	62	15	55	268	223	208	209	194	259	319	319	2016	528	25	6	24	125	377	332	226	347	251	689	130	2907				
29	106	56	55	75	371	319	193	260	373	495	445	295	2949	522	125	13	63	205	377	332	226	347	251	689	130	2907			
30	28	23	26	165	317	305	381	241	347	454	289	266	2841	530	12	30	16	151	304	233	201	348	329	304	204	2882			
31	124	48	26	32	300	256	151	308	242	298	286	595	306	2442	531	145	75	32	90	321	299	318	285	302	204	2708			
32	15	31	60	23	98	210	270	291	316	319	406	360	2399	532	40	10	18	111	248	473	466	303	251	392	305	357	176		
33	224	49	32	452	377	259	203	201	252	302	348	344	3125	533	102	98	50	119	286	311	190	299	316	314	258	411	424	2870	
34	52	69	37	191	170	323	345	319	353	401	467	154	2879	534	311	25	16	53	193	281	308	252	310	351	441	353	197	2586	
35	123	36	85	96	352	437	383	387	326	391	406	108	2947	535	198	5	6	58	286	308	252	310	351	441	353	197	2586		
36	88	84	45	156	244	262	159	286	281	328	361	280	252	303	536	199	5	6	38	143	221	323	301	356	329	488	265	3205	
37	29	28	24	102	310	261	134	245	372	385	473	330	264	292	537	199	8	28	146	331	360	336	412	329	486	265	3067		
38	122	18	18	33	234	274	247	292	327	333	322	223	274	308	537	199	8	28	146	331	360	336	412	329	486	265	3067		
39	21	45	8	38	234	274	247	292	327	333	322	223	274	308	537	199	8	28	146	331	360	336	412	329	486	265	3067		
40	18	29	11	154	306	244	307	363	329	320	327	297	309	355	2576	537	108	30	86	120	246	378	383	381	296	322	200	60	2082
41	47	5	6	264	343	288	284	475	329	329	161	2521	566	550	30	38	38	61	159	265	243	209	257	337	395	234	2461		
42	62	35	111	62	274	321	263	297	328	381	323	275	319	489	521	297	24	24	132	257	298	328	320	308	352	3410			
43	104	19	14	91	243	290	288	247	357	258	292	103	314	112	247	552	25	34	126	226	265	362	331	349	328	2595			
44	307	47	30	62	328	322	308	261	326	326	308	261	262	308	545	244	80	101	129	369	377	344	320	357	322	344	322	2595	
45	36	20	38	150	320	322	308	251	371	371	371	303	260	262	308	546	244	80	101	129	369	377	344	320	357	322	344	322	2595
46	88	24	18	43	349	301	321	285	361	328	303	260	262	308	547	244	80	101	129	369	377	344	320	357	322	344	322	2595	
47	26	17	26	70	302	252	224	208	347	321	321	278	278	303	548	244	80	101	129	369	377	344	320	357	322	344	322	2595	
48	14	14	8	119	385	348	302	191	285	361	328	286	286	303	549	244	80	101	129	369	377	344	320	357	322	344	322	2595	
49	27	46	8	8	252	373	291	272	408	429	306	650	690	3752</															

GATUN TOTAL MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
101	13	45	51	66	337	206	315	240	336	355	535	244	2742	601	24	16	12	135	290	414	338	308	312	281	300	58	2488		
102	115	36	10	83	391	444	265	239	329	452	231	266	2488	602	122	32	53	117	312	360	292	222	284	300	211	268	2573		
103	73	13	37	243	225	187	246	183	322	452	231	266	2488	603	255	22	14	129	401	335	370	218	210	313	376	237	2879		
104	177	60	21	81	325	245	367	344	236	307	443	283	2888	604	33	10	27	16	228	260	237	254	254	259	506	370	2454		
105	79	15	24	37	134	240	179	263	256	303	602	59	2677	605	41	49	10	111	227	321	284	179	305	414	335	71	2546		
106	86	98	51	127	361	265	195	313	257	268	370	253	2644	606	49	114	157	104	237	264	287	348	302	373	248	241	2724		
107	27	23	4	32	209	345	385	391	255	256	347	108	2382	607	203	13	6	50	116	311	369	241	351	466	390	147	2663		
108	43	91	37	48	293	207	253	291	231	354	422	144	2614	608	47	41	17	184	360	206	218	321	325	372	260	167	2517		
109	23	63	35	69	177	237	382	285	325	272	357	316	2540	609	21	8	12	25	247	223	214	379	380	355	552	335	2751		
110	73	17	3	90	350	218	279	299	310	298	372	238	2545	610	83	60	23	36	319	229	169	227	322	287	347	35	2179		
111	168	81	93	492	380	153	434	408	251	312	339	255	3528	611	20	16	45	234	389	231	153	254	261	346	572	268	2800		
112	140	38	39	10	310	390	284	415	287	251	369	355	227	3104	612	28	32	10	190	294	197	420	386	275	288	539	271	21	2119
113	20	10	28	48	215	321	203	355	322	465	290	28	2304	613	42	11	12	195	300	311	181	268	344	362	287	237	21	219	
114	35	41	30	110	279	337	275	253	216	294	475	230	2574	614	53	54	12	81	309	293	215	287	317	460	447	481	3007		
115	86	19	25	77	151	245	294	271	312	440	416	97	2422	615	652	67	41	354	396	228	227	274	327	437	333	250	3586		
116	55	32	60	146	202	292	337	364	247	293	446	261	2754	616	300	91	31	298	219	321	289	303	315	270	273	2916			
117	45	36	35	37	312	340	242	400	350	424	245	152	2618	617	29	16	45	234	389	231	153	254	261	346	572	268	2788		
118	28	37	21	108	294	308	164	279	362	304	406	131	251	271	619	45	8	13	89	271	294	359	357	243	371	351	368		
119	34	68	21	58	265	279	390	225	360	513	510	100	2571	619	45	14	24	144	372	220	202	317	317	326	382	253	2667		
120	67	11	18	173	375	347	284	347	407	310	415	219	2973	620	99	12	24	144	372	220	202	317	317	326	382	253	2700		
121	54	17	23	32	247	205	366	211	264	346	347	78	2090	621	29	33	25	275	356	233	229	327	323	387	237	129	2364		
122	63	42	77	125	278	465	285	316	301	448	299	94	2792	622	69	29	33	25	275	351	166	223	327	323	387	237	213	2916	
123	65	25	21	93	333	404	185	294	368	378	744	196	3006	623	35	24	23	229	215	351	166	223	327	323	387	237	213	2916	
124	29	30	16	126	326	364	358	291	339	394	151	2822	624	122	72	58	106	168	231	138	248	242	390	380	439	2466			
125	54	29	27	75	228	184	338	243	299	409	291	369	3546	625	19	22	44	144	118	338	283	292	260	389	312	155	2758		
126	155	18	51	163	309	191	269	373	271	612	271	81	2764	626	70	25	44	91	251	177	197	277	277	344	393	109	2424		
127	58	23	22	85	268	262	320	210	232	324	410	203	2392	627	56	44	44	302	341	313	280	357	340	340	195	2796			
128	21	16	92	357	340	316	329	348	490	329	600	3258	628	83	39	63	196	391	276	371	434	424	301	304	411	170	2700		
129	128	9	52	149	349	309	291	348	316	426	299	110	2786	629	44	17	6	125	230	276	332	376	377	307	162	2700			
130	138	17	14	19	273	299	265	248	396	396	306	262	630	630	111	31	8	68	371	249	450	304	256	383	307	1305			
131	27	31	13	20	159	286	208	207	308	600	242	104	2205	631	50	18	19	122	178	193	237	313	300	315	307	2059			
132	59	22	21	53	251	194	353	278	342	393	197	407	2570	632	57	60	53	139	349	343	398	325	324	421	342	307	2671		
133	356	11	9	33	198	430	213	287	308	471	238	202	2754	633	98	50	37	105	360	305	349	287	267	344	393	109	2424		
134	28	20	71	72	172	358	247	194	253	309	423	145	2923	635	13	11	22	40	159	284	447	278	277	377	299	155	2361		
135	55	15	52	159	316	463	155	309	365	477	423	145	2923	636	30	21	7	146	286	332	323	323	323	323	323	323	2667		
136	13	28	56	68	259	394	301	280	341	264	499	215	2717	636	30	21	7	146	286	332	323	323	323	323	323	323	2515		
137	28	100	100	143	370	344	376	296	265	252	395	330	299	637	18	22	48	100	296	290	381	304	256	383	307	162	2700		
138	43	26	14	16	51	201	130	264	429	363	504	600	2641	638	43	10	48	68	217	247	348	348	348	348	348	348	2424		
139	86	18	18	166	317	370	279	219	236	352	484	251	280	648	648	235	21	36	35	275	283	287	323	323	323	323	323	3111	
140	14	27	22	42	214	212	350	298	258	326	365	321	262	641	641	39	39	38	23	223	271	251	223	259	344	183	2144		
141	8	37	121	121	51	183	332	217	323	309	305	321	269	650	650	6	20	15	60	352	352	352	352	352	352	352	352	2669	
142	85	34	41	91	260	343	281	210	208	275	369	327	203	658	658	43	24	24	156	280	349	308	374	377	308	374	377	2857	
143	57	23	18	103	185	336	266	208	327	337	339	340	220	658	658	29	77	16	4	156	280	349	308	374	377	308	374	377	2559
144	32	94	131	131	374	344	344	238	369	448	370	307	223	661	661	31	31	13	43	363	363	363	363	363	363	363	363	2559	
145	281	163	14	7	8	224	244	247	345	355	354	287	2652	646	54	54	21	36	35	275	275	275	275	275	275	275	275	275	
146	219	7	21	24	224	244	247	345	355	354	287	403	424	236	647	647	29	15	46	252	356	283	193	274	365	365	2761		
147	120	17	14	102	250	358	196	249	377	311	427	403	424	236	648	648	235	23	46	252	356	283	193	274	365	365	2761		
148	45	18	25	183	346	279	219	236	352	484	251	377	311	649	649	37	37	19	32	272	363	385	237	330	385	2883			
149	76	1																											

GATUN TOTAL MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
201	106	37	169	243	281	218	152	221	331	357	457	180	2751	701	14	25	32	52	400	265	136	280	211	418	359	257	2449		
202	154	42	61	18	308	325	303	357	326	445	272	279	2890	702	240	53	33	75	220	294	268	330	296	451	575	3157			
203	64	101	32	178	399	360	380	234	271	378	255	233	2884	703	49	22	15	33	273	233	385	319	222	366	488	73	2477		
204	204	50	50	46	247	182	278	271	256	494	244	85	2407	704	7	9	17	79	321	265	304	347	369	382	345	716	3161		
205	41	28	33	103	263	165	224	366	317	445	246	246	2713	705	196	13	39	43	120	368	238	163	263	353	354	568	225	3038	
206	26	15	6	150	291	250	278	283	364	354	559	89	2665	706	20	20	6	74	268	234	386	250	269	346	334	225	2437		
207	82	69	15	61	287	257	259	209	223	225	357	85	2129	708	28	20	4	40	364	315	463	306	340	287	281	44	2532		
208	48	12	49	137	320	282	398	373	341	340	376	167	2843	709	66	22	4	84	289	371	286	389	230	406	453	102	2756		
209	8	7	90	246	392	295	361	289	339	404	203	174	2807	709	104	27	16	84	289	371	247	246	357	247	298	2008			
210	61	130	22	70	367	209	375	274	351	465	291	251	2864	710	711	38	28	18	71	169	185	105	247	246	357	247	298		
211	29	18	31	82	261	233	287	332	349	508	263	451	2843	711	91	36	26	251	380	350	270	289	220	255	529	3002			
212	97	35	21	76	294	307	282	293	357	416	397	125	2700	712	91	37	198	309	340	331	198	331	365	646	163	3231			
213	31	47	49	175	349	188	160	231	377	386	313	243	2548	713	212	101	37	198	309	355	378	284	339	294	296	213	2767		
214	40	22	16	239	364	215	259	259	259	283	364	354	265	278	714	44	70	72	195	287	356	405	271	408	376	340	144	2819	
215	24	33	23	94	336	246	155	259	279	281	516	2499	715	47	30	33	95	306	364	343	337	267	310	430	323	328	2885		
216	17	15	93	251	283	183	268	251	373	333	118	2199	716	128	49	8	20	192	383	317	281	331	317	309	116	2451			
217	26	12	37	299	294	260	246	222	274	324	485	191	2670	717	194	53	30	366	366	383	298	255	301	301	175	2857			
218	160	46	24	63	189	137	260	204	253	426	530	807	3097	718	61	45	17	21	242	223	291	288	271	302	258	246	2272		
219	191	13	79	62	295	280	210	246	346	255	286	292	188	2452	720	61	20	23	31	260	231	348	287	456	354	156	2660		
220	14	56	11	88	375	310	226	242	333	332	285	180	2883	721	274	25	18	62	190	250	250	397	444	409	225	397	2684		
221	84	52	25	96	192	397	385	298	231	279	484	360	2460	722	37	30	24	44	353	291	191	236	312	251	522	97	2305		
222	56	41	27	103	161	253	258	270	327	266	319	381	2460	722	52	22	13	88	344	356	405	271	267	310	393	398	166	2563	
223	473	27	38	49	296	318	225	291	291	291	202	276	378	89	2022	724	58	78	42	59	228	328	257	247	310	393	398	166	2669
224	21	55	22	24	198	199	199	224	276	281	329	324	147	2682	726	66	9	14	65	267	323	174	247	373	586	259	205	2585	
225	185	44	39	22	198	254	283	284	284	285	439	326	174	276	727	29	31	38	56	299	276	105	297	336	262	494	177	2400	
226	111	72	23	81	287	276	384	254	283	283	463	378	1087	727	18	16	25	15	323	166	173	280	246	507	339	231	2337		
227	169	23	71	198	396	411	264	233	233	283	411	253	293	2349	728	15	14	7	152	200	187	257	304	419	447	157	2411		
228	215	39	5	40	360	214	229	273	283	386	298	231	279	146	2999	729	109	20	13	117	307	295	258	244	297	287	517	297	
229	10	65	44	107	365	333	242	266	326	325	325	770	146	2999	729	28	51	26	45	259	369	285	277	305	288	320	28	2823	
230	59	36	9	29	229	256	201	317	384	256	232	201	2231	730	50	28	23	221	260	265	326	263	303	320	320	2826			
231	41	102	30	68	329	258	131	267	300	285	500	170	2471	731	142	118	60	121	202	160	223	265	329	243	210	262	2626		
232	114	88	55	151	158	260	237	318	295	303	375	298	147	2359	732	66	9	12	51	270	265	321	221	329	331	312	2691		
233	23	64	21	43	340	276	208	264	364	353	368	278	247	2427	734	19	18	37	324	400	166	187	324	276	422	491	312	2691	
234	69	45	41	10	234	391	344	282	353	358	308	204	2645	735	43	43	18	14	251	295	258	244	297	287	517	297	2975		
235	19	57	20	275	307	247	292	292	356	358	308	204	2645	736	109	20	13	13	307	295	258	244	297	287	517	297	2975		
236	9	17	39	310	372	291	130	252	306	303	381	112	2522	736	736	737	28	51	26	45	259	369	285	277	328	292	492	158	2677
237	86	9	82	231	320	269	413	468	569	532	547	397	360	396	3620	739	9	21	76	180	301	359	329	329	328	326	326	286	
238	410	9	13	51	166	224	224	223	272	329	333	230	240	247	2407	739	24	29	16	95	364	370	316	326	326	326	326	286	
239	114	68	111	114	297	441	361	283	283	283	283	283	174	2915	739	247	87	46	102	133	214	303	370	370	370	370	370	2749	
240	10	51	45	246	392	284	256	246	273	328	325	225	257	422	2808	740	302	80	19	100	339	416	349	349	349	349	349	2749	
241	52	35	35	151	269	316	391	339	339	339	339	339	215	235	512	250	250	32	16	15	131	353	235	235	235	235	235	2852	
242	147	42	42	234	323	313	276	276	343	343	343	343	343	257	257	512	236	236	386	386	386	386	386	386	386	386	2425		
243	92	36	10	133	249	283	289	287	325	343	300	343	318	287	287	287	287	287	386	386	386	386	386	386	386	386	2489		
244	20	38	35	94	356	243	289	287	325	343	300	343	316	117	2707	745	47	42	20	31	23	223	262	326	326	326	326	2740	
245	60	30	97	228	185	377	275	275	327	346	364	364	228	282	747	747	87	46	102	133	214	303	370	370	370	370	370	2740	
246	41	73	38	111	247	384	465	465	465	465	465	465	204	2714	754	38	29	18	18	97	324	205	370	370	370	370	370	3032	
247	67	21	31	9	247	343	393	325	325	328	328	328	104	2714	754	61	14	14	14	14	232	222	305	305	305	305	305	2741	
248	55	27	14	61	279	348	309	273	273	315	315	315	18	218	754	27	32	27	100	30									

GATUN TOTAL MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
301	23	10	10	33	392	237	293	296	376	293	412	130	2503	801	106	43	34	202	338	346	273	251	367	289	52	2587			
302	32	22	21	24	350	265	148	217	342	336	457	205	2419	802	45	36	26	57	381	251	255	334	252	361	256	50	2304		
303	25	56	50	99	403	194	331	368	377	444	281	49	2676	803	15	28	14	26	275	446	249	255	318	323	125	2392			
304	41	56	20	58	382	307	275	331	234	425	322	101	2550	804	34	9	48	85	346	320	144	386	393	253	261	87	2366		
305	202	67	18	201	370	379	290	247	227	232	488	197	2918	805	21	122	19	103	309	375	218	307	263	319	322	163	2541		
306	47	15	5	4	114	291	184	250	268	274	232	64	2135	806	16	61	23	21	172	325	267	340	291	289	496	341	2641		
307	29	20	51	98	375	272	360	297	240	327	394	34	2227	808	36	92	41	97	347	204	343	200	261	523	416	130	2780		
308	41	23	12	38	171	360	291	290	310	345	463	273	3118	809	153	64	80	119	244	192	114	310	284	337	270	43	2207		
309	55	114	237	59	259	422	291	290	315	336	487	178	2832	810	78	14	8	5	64	396	298	387	423	297	294	312	334	2821	
310	62	43	26	58	329	225	287	286	315	536	487	149	2279	811	64	77	33	36	235	239	178	191	252	359	314	100	2077		
311	36	19	30	81	236	254	257	354	301	245	318	197	2918	812	24	11	48	112	228	265	250	307	195	399	622	891	3352		
312	211	119	87	195	369	240	218	166	420	366	433	555	3156	813	37	23	101	120	306	294	275	345	314	353	395	195	2757		
313	493	13	20	107	337	199	249	276	288	280	282	475	3016	814	35	44	13	89	293	299	427	399	278	318	302	217	2712		
314	9	3	47	230	272	370	361	304	365	419	278	2719	814	51	18	16	67	361	286	141	239	286	513	552	451	157	2991		
315	16	30	52	360	228	270	442	334	380	390	369	239	2801	816	148	64	17	47	87	246	195	311	392	568	210	126	2410		
316	28	57	136	303	330	208	334	288	238	311	405	276	2705	817	64	44	9	58	274	265	189	229	402	231	258	29	2052		
317	19	57	116	207	337	316	365	238	289	291	282	89	9	2402	818	30	18	20	187	372	291	297	331	334	2821	312	2821		
318	60	14	15	258	281	232	339	293	241	282	289	43	2748	819	32	65	15	78	399	330	359	310	285	304	352	365	2893		
319	49	23	18	50	318	275	402	376	370	378	357	398	281	820	95	30	42	48	344	381	331	313	316	268	516	391	3074		
320	71	21	10	107	337	262	253	359	287	374	558	345	2981	821	79	13	39	128	373	211	225	307	322	350	259	118	2423		
321	78	70	68	186	267	276	186	265	456	473	306	2715	821	79	13	39	128	373	211	186	324	264	364	309	138	2406			
322	37	19	21	66	296	274	305	272	282	285	446	341	255	2518	823	30	40	24	294	382	374	394	311	214	422	284	80	2849	
323	35	65	15	204	245	142	204	282	285	446	341	255	2518	823	30	40	24	69	365	269	304	390	326	364	484	402	3106		
324	132	51	44	194	309	266	281	289	285	288	318	230	298	824	68	45	21	79	125	223	369	376	324	307	303	166	2361		
325	11	21	16	83	220	251	175	290	323	328	331	260	2308	825	53	11	17	111	276	333	216	260	366	307	326	432	391	2846	
326	149	60	49	132	306	244	174	257	244	395	311	269	282	827	827	164	17	3	28	272	256	251	354	139	2503	139	2503		
327	284	23	56	120	283	242	365	343	298	258	311	110	2692	827	164	17	3	28	306	352	166	273	256	251	354	304	2729		
328	232	91	43	394	359	408	373	276	326	328	378	296	289	828	828	147	15	26	285	307	257	274	329	445	414	304	2701		
329	133	11	6	35	336	261	275	329	371	420	175	119	2471	829	54	16	15	27	240	211	317	311	393	487	267	314	2701		
330	28	7	21	61	294	300	364	341	310	391	297	317	2731	830	88	31	31	14	174	358	282	160	240	267	540	474	268		
331	394	29	25	50	274	354	306	313	343	389	350	363	319	389	831	76	25	14	100	238	361	280	245	297	331	315	158	2426	
332	46	118	87	51	358	326	312	249	237	318	381	230	2713	832	431	49	100	100	238	361	343	371	357	171	311	315	158		
333	42	36	48	171	335	237	279	327	352	356	420	270	48	3005	833	21	50	21	86	343	298	324	328	303	355	570	279	163	2905
334	48	47	48	171	335	237	279	327	356	361	408	353	69	240	835	29	26	63	126	331	336	326	303	358	321	675	496	3377	
335	46	15	70	20	181	238	222	328	315	383	376	239	2705	836	32	63	47	135	247	347	354	326	350	380	413	315	372		
336	36	4	41	196	274	242	242	352	308	378	340	316	376	837	837	43	34	159	252	347	347	354	323	347	267	406	2479		
337	121	14	29	121	246	224	242	320	374	320	374	595	240	284	838	838	126	41	15	83	53	359	346	308	235	342	183	2475	
338	77	44	44	73	353	389	390	277	281	407	307	350	494	413	305	319	839	14	13	44	359	346	308	235	342	183	2475		
339	191	79	6	48	107	339	329	252	384	325	384	325	423	840	149	22	21	133	223	296	315	314	314	424	242	289	2923		
340	78	47	24	385	331	299	376	345	318	324	312	327	312	283	841	78	18	11	54	393	353	237	340	361	459	439	473		
341	11	24	20	103	175	179	277	341	311	343	255	94	2277	842	45	57	88	270	346	381	321	357	248	332	356	329	372		
342	93	26	15	93	337	278	291	297	311	396	54	2271	843	179	53	173	313	293	253	325	377	300	180	117	206				
343	171	26	15	260	278	291	297	311	396	54	2271	843	179	53	173	313	293	253	325	377	300	180	117	206	2325				
344	62	39	116	319	349	301	322	327	381	380	320	228	188	2402	860	24	39	19	46	290	198	298	279	314	400	128	2325		
345	68	18	30	336	336	386	382	254	267	325	295	347	125	2516	864	65	10	5	67	347	297	278	248	327	327	266	2841		
346	70	20	41	245	261	314	379	229	197	249	345	413	305	3196	864	57	45	44	108	352	324	273	309	212	402	456	2365		
347	59	13	41	149	271	281	407	307	350	494	321	314	250	864	865	44	23	72	108	324	241	205	320	380	361	139	2365		
348	13	36	50	65	368	297	323	260	316	315	333	64	2660	864	77	6	6	106	336	235	235	307	236	309	305	207			
349	145	14	53	337	355	359	31																						

GATUN TOTAL MONTHLY SYNTHETIC RAINFALL GENERATED USING HEC-4 (MM)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg				
401	138	25	14	143	301	227	239	348	303	330	500	2802	901	140	56	21	59	316	268	435	252	310	373	440	78	2747					
402	97	48	5	53	377	338	249	338	315	301	241	249	924	2439	902	29	11	107	380	199	139	287	284	522	297	128	2403				
403	114	25	81	90	246	298	345	360	326	242	224	43	2393	903	78	21	5	55	278	227	339	269	348	479	379	268	2745				
404	29	49	97	197	325	164	230	284	267	360	262	238	564	3609	905	95	29	13	35	355	296	253	231	392	393	292	32	2568			
405	17	95	71	106	283	423	443	467	376	416	520	395	314	2181	906	32	84	84	297	278	211	271	254	456	482	92	2311				
406	18	20	16	25	177	175	187	241	289	334	386	314	304	238	288	907	55	19	28	163	371	327	142	175	253	259	745	466	3101		
407	162	108	33	87	398	354	248	237	251	373	304	304	34	2588	908	652	156	36	46	281	245	381	242	339	456	482	92	2311			
408	92	49	72	291	329	269	210	245	248	288	278	265	322	343	694	83	326	909	156	26	99	407	304	435	415	367	409	247	3255		
409	73	42	43	65	325	391	317	258	322	343	694	325	2360	910	17	13	5	27	207	268	255	231	305	307	340	439	562	220	2660		
410	94	39	21	56	314	182	217	257	257	314	217	257	251	417	314	911	54	134	74	80	223	223	291	273	205	436	439	391	403	2787	
411	71	14	38	138	393	300	179	295	292	378	380	77	2554	911	54	134	74	80	223	223	269	187	367	384	374	361	149	2790			
412	69	42	27	169	261	298	303	214	286	488	488	310	169	2736	912	273	213	235	22	44	263	313	268	423	329	374	374	322	459	535	2826
413	55	100	68	27	258	300	337	399	346	297	279	159	264	913	39	42	83	146	263	240	180	326	291	327	366	244	242	2317			
414	170	43	32	80	384	302	131	241	360	340	288	213	277	289	914	34	38	41	34	301	277	301	319	236	352	623	415	3246	2780		
415	39	48	21	56	270	386	442	377	382	272	272	175	2849	915	92	107	20	113	390	355	218	234	300	309	303	352	444	164	2688		
416	51	19	18	76	356	308	240	188	336	325	460	133	2357	916	121	20	28	15	155	324	359	269	255	323	320	444	164	136	2961		
417	61	10	99	93	323	277	297	253	253	250	254	211	2344	917	18	25	31	41	140	387	401	316	316	316	316	316	316	316	92	2478	
418	86	22	18	49	315	269	298	299	299	292	347	72	2347	918	49	81	72	394	130	314	371	194	319	256	592	149	2790				
419	121	21	26	37	298	314	165	284	268	398	192	64	2178	919	34	25	25	67	130	214	371	327	300	352	319	109	2283				
420	161	29	13	89	301	326	327	292	328	358	283	456	2971	920	46	59	40	67	224	222	299	287	206	271	235	440	265	124	2731		
421	115	25	39	99	382	277	199	241	350	348	339	213	277	307	294	2881	922	29	39	24	102	299	287	192	264	493	291	87	2293		
422	68	55	26	324	396	324	259	297	254	265	412	178	2677	923	22	34	38	27	282	246	317	192	264	393	284	227	2780				
423	82	25	34	176	368	300	332	254	246	205	2361	924	53	31	42	147	309	324	357	315	366	351	445	187	227	2785					
424	72	22	19	214	237	147	261	387	378	392	202	2579	925	61	85	30	42	311	231	218	242	348	374	319	137	2395					
425	6	11	51	52	258	300	289	315	246	261	330	354	272	324	926	333	104	51	84	256	218	165	289	372	291	210	395	109	2283		
426	59	26	19	153	376	304	359	217	246	391	370	214	2447	927	128	63	16	3	5	187	234	304	361	292	210	395	137	2612			
427	27	29	10	25	227	402	205	234	310	348	211	38	216	928	168	16	3	5	187	234	304	361	292	210	395	82	2384				
428	41	47	80	173	246	283	205	236	245	326	394	250	283	439	290	929	310	16	20	27	107	262	293	287	192	264	461	2856			
429	65	40	38	124	261	286	281	273	247	298	458	412	243	439	290	930	106	13	20	27	107	262	293	287	192	264	503	2437			
430	239	16	8	159	255	220	167	247	250	297	356	321	317	686	297	196	2979	931	120	18	25	91	277	198	230	398	374	503	2348		
431	54	34	7	75	383	337	199	312	300	361	365	247	345	438	342	93	129	18	25	91	277	198	230	398	374	503	2509				
432	38	26	22	63	311	344	184	266	274	443	260	350	311	369	250	88	2470	933	92	82	106	277	308	318	349	326	315	335	166	2687	
433	33	13	14	35	329	266	312	289	285	346	314	320	344	324	924	934	106	19	11	23	219	268	366	358	374	326	315	335	166	2687	
434	11	60	33	173	325	290	363	309	329	320	345	216	2762	935	46	58	51	36	260	253	354	252	320	311	257	105	2275				
435	83	99	22	44	327	457	344	374	225	345	297	282	4243	936	243	262	365	310	308	296	326	236	267	249	249	602	267	292			
436	66	17	9	86	123	262	250	262	277	326	394	315	361	365	231	2769	937	22	47	24	285	369	308	326	283	311	354	251	2347		
437	113	20	46	48	216	288	308	225	253	307	325	309	321	354	378	918	2868	938	134	37	219	311	361	361	361	361	361	64	2347		
438	17	28	123	418	321	235	250	250	250	297	356	345	321	343	365	313	93	129	18	25	91	277	198	230	398	374	326	315	335	166	2707
439	77	85	14	15	221	169	243	243	243	343	393	363	101	2467	940	53	7	15	61	253	256	323	311	364	343	311	311	311	415	2749	
440	40	26	39	129	351	265	214	287	288	302	314	374	236	326	333	359	337	112	2864	948	16	69	210	202	298	302	373	364	347	305	292
441	45	19	23	147	347	187	204	188	288	289	352	387	121	139	282	183	2678	949	159	958	71	9	22	180	274	355	382	306	322	302	
442	43	10	23	397	332	317	278	362	362	447	318	282	183	283	183	2678	950	45	45	33	229	323	277	300	326	348	356	356	356	2239	
443	42	30	43	278	305	229	305	305	305	306	321	377	196	2836	960	143	33	53	299	320	300	321	350	350	350	360	172	2524			
444	28	42	39	198	310	296	271	282	282	307	325	387	268	121	2567	961	15	60	9	37	121	262	271	306	323	345	354	360	80	2562	
445	53	21	9	35	361	265	289	362	266	326	326	321	374	218	2618	954	98	29	17	16	181	266	358	328	345	345	345	345	345	206	2783
446	45	11	11	177	293	250	230	286	287	328	345	321	374	218	2778	955	71	14	15	62	266	358	328	345	345	345	345	345	345	2246	
447	149	11	11	17	229	250	230	286	287	328	345	321	374	218	2778	956	71	14	15	62	266	358	328	345	345	345	345	345	345	2247	
448	24	6	2	14	82	274	437	324	324	324	324	324	324	324	324	324	953	456	456	456	456	355	355	355	355	355	355	355	355	355	2247
449	30	56	35	205	320	299	273	287	287	326	344	308	316	324	324	957	77	22	20	27	124	286	355								

10 SETS OF 100-YEAR SYNTHETIC FLOWS

MADDEN MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
1	72.6	41.1	29.5	23.1	29.5	29.0	65.7	62.8	78.4	74.7	149.2	124.4	65.0	501	31.8	23.1	18.1	72.9	130.5	79.1	89.9	81.6	77.4	144.5	213.4	144.5	92.2	
2	32.1	46.6	34.0	16.7	34.8	46.8	64.9	76.6	85.8	82.5	117.5	149.9	63.0	502	84.1	52.4	33.5	36.0	80.3	87.3	98.2	108.6	61.6	101.1	127.8	125.7	83.1	
3	102.3	44.6	34.0	152.8	115.9	123.6	130.4	98.9	107.4	145.6	86.8	81.3	503	43.3	22.1	17.1	26.3	56.4	116.0	95.9	69.2	83.8	66.9	121.0	118.7	69.7		
4	51.1	33.5	34.0	34.9	92.8	115.9	65.0	66.9	64.8	88.6	109.7	150.9	97.9	504	61.0	52.3	36.3	43.0	74.1	89.0	69.0	84.6	78.6	93.4	91.1	130.3	75.2	
5	59.1	33.5	34.0	64.3	57.0	86.7	101.6	103.6	80.2	78.4	114.5	68.8	80.5	505	127.7	36.8	24.7	24.1	51.8	73.7	66.9	100.0	90.4	93.9	94.0	107.4	166.7	
6	46.9	40.9	32.2	53.2	68.1	73.7	49.2	69.8	75.7	73.6	149.1	76.2	67.4	506	35.8	18.9	11.8	48.4	80.4	94.9	91.7	96.1	124.2	125.4	111.0	70.6		
7	33.7	24.9	18.4	28.3	71.1	73.0	42.4	56.1	92.1	97.4	210.7	115.6	72.0	507	183.4	65.7	33.5	23.8	46.7	55.5	87.0	91.1	96.9	87.8	142.4	122.0	86.3	
8	65.2	28.6	18.9	15.4	66.9	74.7	71.8	82.4	81.8	110.7	113.0	198.3	77.3	508	79.9	24.2	34.2	77.3	100.2	107.6	118.9	84.9	106.6	112.7	207.8	89.6		
9	40.2	32.4	29.4	21.9	58.9	76.8	75.5	81.1	64.2	66.0	61.9	72.6	56.7	509	66.0	44.8	43.4	82.3	129.2	72.7	72.2	86.3	70.9	93.1	151.2	135.2	87.1	
10	30.2	23.7	14.6	34.0	80.9	85.8	87.7	113.9	100.5	116.4	102.0	115.0	76.1	510	72.8	28.8	20.6	15.2	53.0	67.9	63.2	97.8	74.2	75.0	102.7	94.3	63.8	
11	45.3	20.5	11.7	45.9	106.0	110.9	103.6	116.3	88.8	105.0	130.0	51.5	78.0	511	49.6	31.9	22.0	14.3	44.9	92.1	99.6	133.9	93.5	107.0	90.6	65.8	70.4	
12	38.4	27.7	29.9	24.4	62.0	97.7	68.2	99.7	80.9	104.5	150.3	98.5	73.5	512	27.0	27.0	19.8	20.8	60.8	75.3	108.7	104.3	105.2	76.4	102.9	60.4	49.7	
13	57.9	27.9	19.1	29.9	68.5	73.2	66.2	81.1	90.5	110.7	167.2	90.2	73.5	513	41.1	27.0	20.8	22.4	59.6	52.5	42.7	33.7	65.0	68.8	102.9	60.4	49.7	
14	93.4	43.3	31.7	31.7	70.5	80.8	93.2	95.0	86.9	111.6	135.1	142.5	84.6	514	51.1	34.3	25.8	18.9	100.1	105.2	115.3	106.7	93.4	87.4	111.9	247.7	92.5	
15	43.8	26.4	22.4	38.5	92.2	93.4	59.4	54.9	63.3	105.9	122.4	90.6	68.5	515	45.7	39.8	43.3	102.2	85.7	105.2	111.7	74.0	102.6	92.1	72.2	72.4		
16	53.9	29.0	20.6	21.9	90.1	96.1	96.6	85.1	98.4	122.0	156.8	109.9	81.7	516	31.2	29.0	19.7	19.7	60.8	108.0	127.4	138.7	124.3	107.7	130.7	79.6		
17	36.3	23.6	18.2	22.7	64.8	87.5	76.6	75.7	78.7	74.3	110.0	99.7	64.4	517	43.2	28.3	20.1	31.4	71.1	82.1	109.7	115.6	98.7	83.2	95.0	126.2	75.4	
18	71.0	24.9	16.7	19.4	62.3	68.3	79.8	68.6	78.4	73.2	111.0	99.7	64.4	518	42.3	28.2	21.6	31.4	43.6	56.1	103.9	106.6	86.8	98.4	99.1	81.1	70.0	
19	38.0	24.1	14.9	29.4	105.6	79.3	77.7	80.0	67.0	147.9	54.5	68.8	73.5	519	31.1	27.0	20.8	22.4	59.6	52.5	42.7	33.7	65.0	68.8	102.9	60.4	49.7	
20	51.3	41.5	32.2	33.0	67.0	60.9	29.4	53.1	54.2	68.5	123.8	20.1	68.2	520	31.1	27.0	20.8	22.4	59.6	52.5	42.7	33.7	65.0	68.8	102.9	60.4	49.7	
21	314.1	79.0	36.5	136.0	90.3	87.2	88.7	79.6	94.9	74.6	100.7	89.3	64.6	521	41.1	34.3	25.8	100.7	115.3	106.7	93.4	87.4	84.4	142.2	127.5	71.1		
22	39.9	21.4	18.3	16.0	56.0	97.2	100.9	121.2	90.9	72.6	81.6	132.0	72.1	522	43.7	40.0	27.3	27.5	62.7	58.6	140.4	117.7	99.9	109.0	141.7	67.8		
23	41.4	31.1	21.2	27.2	70.8	60.2	109.0	121.2	90.9	72.6	81.6	132.0	72.1	523	43.7	40.0	27.3	27.5	62.7	58.6	140.4	117.7	99.9	109.0	141.7	67.8		
24	73.2	34.6	27.8	32.3	76.0	55.3	65.2	74.7	77.5	93.3	102.0	84.7	74.4	524	47.5	28.0	17.7	12.2	43.5	42.6	94.6	66.0	68.6	83.6	74.5	136.3	71.6	
25	61.0	59.6	35.0	53.7	71.0	84.0	98.3	87.4	86.7	86.0	106.0	64.2	60.0	525	36.8	27.3	22.6	35.7	63.8	66.7	93.7	70.3	76.6	86.4	120.9	135.4	71.6	
26	59.9	25.5	22.8	23.8	47.9	62.0	81.4	88.1	84.3	88.6	86.6	69.9	78.6	526	49.4	31.6	19.2	31.6	50.7	116.0	89.9	60.2	89.4	104.5	105.1	93.5	73.5	
27	32.7	33.6	26.3	38.2	53.0	62.9	50.6	84.3	65.2	70.9	81.7	78.4	63.0	527	31.1	27.0	20.8	22.4	59.6	62.6	100.7	71.1	72.1	71.1	80.9	134.2	67.8	
28	41.1	32.9	29.8	27.8	67.7	78.3	82.5	102.8	78.3	80.7	134.9	109.3	72.6	528	43.2	29.9	24.8	24.3	47.9	50.7	70.3	62.1	79.0	81.9	77.7	80.0	105.3	55.8
29	43.9	39.3	26.8	65.5	113.4	136.0	113.5	117.8	80.6	81.7	143.3	140.1	62.4	529	52.2	30.0	18.3	24.3	47.9	50.7	70.3	62.1	79.0	81.9	77.7	80.0	142.2	71.1
30	56.1	47.6	33.9	16.8	50.2	93.8	68.0	72.4	78.7	80.7	102.8	125.4	62.4	530	45.7	22.0	16.1	24.5	42.6	47.9	76.7	80.3	82.2	84.2	147.5	85.8	72.9	
31	26.8	18.4	14.8	24.1	65.8	95.8	107.2	96.0	83.0	90.6	101.0	273.3	83.5	531	60.4	20.7	18.3	24.5	42.6	47.9	76.7	80.3	82.2	84.2	147.5	85.8	72.9	
32	53.3	25.2	16.6	46.6	87.7	77.5	97.7	84.7	85.5	126.0	110.5	93.6	72.6	532	47.5	22.6	20.0	21.6	42.6	47.9	76.7	80.3	82.2	84.2	147.5	85.8	72.9	
33	35.6	24.4	26.3	21.1	50.3	95.9	75.7	78.1	78.8	92.1	109.3	139.2	61.4	533	69.9	36.5	31.6	31.6	50.7	77.1	96.2	90.6	109.3	83.5	111.3	109.9	78.3	
34	46.4	36.1	34.3	50.3	87.4	75.6	93.8	115.2	95.2	84.5	104.1	115.9	61.4	534	64.8	45.3	39.9	30.8	43.6	50.7	77.1	96.2	90.6	109.3	83.5	111.3	109.9	78.3
35	38.1	20.9	21.1	21.1	51.8	87.4	78.0	72.0	102.4	104.5	84.3	86.4	84.6	535	64.8	45.3	39.9	30.8	43.6	50.7	77.1	96.2	90.6	109.3	83.5	111.3	109.9	78.3
36	68.6	35.6	29.0	43.0	57.4	82.5	93.3	90.9	87.9	95.3	119.7	115.9	61.4	536	64.8	45.3	39.9	30.8	43.6	50.7	77.1	96.2	90.6	109.3	83.5	111.3	109.9	78.3
37	118.7	52.2	37.7	45.4	75.1	73.9	90.9	72.8	85.7	95.3	115.5	77.1	92.9	537	49.7	37.0	25.7	33.8	49.6	52.7	77.1	96.2	90.6	109.3	83.5	111.3	109.9	78.3
38	50.6	34.7	26.6	19.6	55.4	82.5	93.3	90.9	87.0	96.0	105.5	102.0	61.4	538	50.0	25.0	19.1	37.7	49.6	52.7	77.1	96.2	90.6	109.3	83.5	111.3	109.9	78.3
39	37.8	21.7	18.6	21.8	50.4	92.0	82.0	87.4	85.4	73.8	74.8	106.1	62.6	539	50.5	25.0	19.1	37.7	49.6	52.7	77.1	96.2	90.6	109.3	83.5	111.3	109.9	78.3
40	40.8	22.2	21.1	21.1	57.4	84.0	114.6	106.0	133.5	137.6	123.7	82.7	72.0	540	40.9	31.8	25.7	33.8	49.6	52.7	77.1	96.2	90.6	109.3	83.5	111.3	109.9	78.3
41	47.3	31.3	21.0	17.6	50.3	58.4	90.4	88.6	88.6	105.0	120.8	119.6	72.0	541	40.9	31.8	25.7	33.8	49.6	52.7	77.1	96.2	90.6	109.3	83.5	111.3	109.9	78.3
42	47.3	31.3	21.0	17.6	50.3	58.4	90.4	88.6	88.6	105.0	120.8	119.6	72.0	542	40.9	31.8												

MADDEN MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
101	40.4	28.6	18.3	15.3	41.1	70.0	65.9	59.2	78.9	143.4	103.2	80.5	62.1	601	44.1	25.5	18.9	32.5	53.1	50.0	66.3	84.6	82.4	73.3	97.7	74.1	58.5	
102	45.1	26.7	19.5	20.7	55.1	49.6	95.6	92.8	93.6	101.6	76.5	195.6	72.7	602	43.0	34.8	29.4	43.4	95.8	100.4	122.0	119.7	109.9	80.3	147.9	87.1		
103	165.3	35.1	21.1	19.9	49.6	107.9	81.8	92.2	86.3	116.7	94.7	116.2	82.2	603	70.7	41.1	31.1	40.4	101.9	92.3	108.4	103.6	79.6	109.9	92.2	69.1	78.4	
104	39.7	25.3	18.4	23.1	46.8	91.5	84.0	65.9	66.3	91.6	105.0	144.1	66.8	604	28.5	23.4	18.5	23.6	56.0	102.5	84.0	86.1	92.5	77.7	111.3	66.5	64.2	
105	52.8	26.8	24.5	41.3	77.1	120.9	73.3	94.9	98.0	128.3	150.9	89.8	81.6	605	28.6	19.7	14.5	16.5	41.0	69.0	122.9	107.5	82.2	92.0	99.9	87.0	65.1	
106	30.5	23.6	20.9	21.3	55.6	102.3	102.0	100.7	94.9	74.1	130.6	102.7	71.6	606	37.1	25.0	15.1	35.3	70.4	92.7	101.4	75.1	101.0	152.2	83.4	55.9	70.4	
107	37.1	38.2	32.4	26.0	90.3	99.7	120.6	114.4	81.2	69.7	67.0	116.3	74.4	607	30.3	21.0	21.1	19.1	60.0	78.2	109.8	94.1	90.5	79.8	97.7	85.8	65.7	
108	44.7	28.3	18.6	14.5	30.5	40.5	35.7	55.7	100.7	97.3	153.2	250.9	72.6	608	40.9	22.3	20.3	22.1	44.4	53.1	87.3	87.8	93.5	89.2	89.8	145.3	66.3	
109	80.0	32.8	22.8	50.0	81.7	104.8	99.0	82.4	77.6	76.5	81.9	47.9	69.8	609	72.9	36.3	41.0	71.6	99.4	119.2	127.7	86.2	70.8	108.5	150.4	83.7		
110	27.8	21.4	15.2	16.6	46.0	51.1	94.8	97.6	74.9	80.5	99.9	115.0	61.7	610	46.7	27.9	23.7	35.5	74.1	93.4	65.2	89.7	82.6	76.2	163.7	169.8	79.4	
111	28.7	24.1	25.4	164.8	82.3	79.1	123.6	115.7	90.5	92.8	109.7	150.3	90.6	611	46.8	41.1	33.8	76.6	74.7	74.7	54.8	42.4	82.4	81.4	103.7	69.0	67.0	
112	64.5	36.0	32.8	32.4	64.1	88.5	69.4	82.7	82.0	90.0	171.6	213.4	85.3	612	27.8	17.1	9.3	11.8	40.0	102.5	97.6	117.0	106.6	102.7	94.8	79.4	67.2	
113	61.1	31.7	21.9	32.9	70.2	68.8	71.2	77.5	94.4	91.6	75.4	90.9	64.0	613	59.3	33.0	30.6	34.6	58.1	68.6	67.9	61.4	56.4	68.1	103.9	87.3	60.8	
114	35.9	35.8	36.0	78.6	113.9	104.2	82.2	78.9	51.8	72.6	85.8	116.8	74.2	614	34.8	22.9	14.6	32.9	74.0	65.9	74.8	78.0	86.1	65.4	116.4	238.0	75.3	
115	101.1	86.1	34.3	38.9	83.9	92.7	61.9	71.8	78.6	81.3	84.8	65.0	73.4	615	378.9	44.6	29.7	108.2	106.5	89.3	93.3	94.7	95.5	99.2	114.5	125.1	115.0	
116	67.2	23.4	14.4	12.4	42.8	58.4	71.5	97.2	96.4	93.8	117.0	136.9	69.3	616	50.1	28.1	23.6	19.6	60.0	75.8	88.3	118.1	103.3	91.8	101.2	79.3	70.0	
117	72.2	30.4	20.4	32.1	61.5	97.0	74.1	83.0	106.3	113.9	143.4	120.2	79.5	617	46.1	29.1	19.8	21.7	58.3	94.5	91.9	69.0	72.9	78.6	160.5	246.8	82.4	
118	45.9	26.1	19.9	44.9	87.0	83.4	101.1	87.1	94.4	126.0	130.9	122.4	80.8	618	138.2	58.7	43.3	31.3	63.0	40.9	59.4	58.1	83.9	126.1	198.2	65.4	80.5	
119	57.1	25.6	23.7	45.8	62.5	64.5	91.5	101.1	99.2	76.3	94.8	115.3	73.4	619	27.8	23.9	17.1	51.6	70.5	76.1	68.0	68.2	71.1	50.3	56.6	67.2		
120	57.5	33.5	20.9	23.1	95.6	75.3	66.3	89.4	83.5	72.5	83.6	64.0	620	25.3	20.1	13.4	18.6	70.7	95.8	93.7	99.0	93.4	107.3	92.7	70.8	66.7		
121	32.0	24.3	17.5	20.7	53.2	82.1	83.3	115.0	100.5	127.3	159.8	121.0	78.1	621	44.4	25.8	23.7	19.7	58.0	113.0	111.7	121.0	92.9	87.1	94.5	94.6	73.9	
122	31.3	27.2	18.9	17.5	62.6	85.7	80.1	82.9	96.4	87.9	118.6	202.3	76.0	622	67.5	38.6	27.5	44.6	55.6	110.6	80.8	103.6	125.5	43.0	112.6	73.6		
123	88.7	44.1	38.0	77.0	86.1	63.8	73.8	82.2	57.0	71.2	135.8	180.5	83.2	623	35.0	37.4	24.3	21.3	72.3	79.6	62.1	59.8	67.3	72.4	108.4	87.1	60.6	
124	79.6	34.1	23.2	28.2	64.2	80.0	82.3	93.1	81.0	99.2	92.9	54.5	67.7	624	35.0	24.9	20.5	24.1	95.8	103.4	118.9	104.0	94.2	70.2	128.0	85.0	77.9	
125	40.3	24.9	23.2	19.6	80.0	66.3	31.7	43.8	73.6	78.7	137.5	114.9	61.2	625	39.0	24.9	20.5	24.1	95.8	106.0	23.7	60.0	96.6	87.4	96.4	101.4	112.1	66.8
126	59.1	43.0	33.5	51.1	106.2	86.3	82.7	107.5	87.6	107.1	81.4	91.3	62.6	626	32.1	22.3	25.8	27.7	66.1	46.7	56.8	86.7	91.1	103.6	121.2	66.8		
127	34.5	19.8	14.0	17.5	56.2	60.2	66.1	59.3	80.9	71.1	103.1	91.9	56.7	627	96.1	37.4	23.7	32.0	104.3	113.0	117.7	97.5	87.0	97.7	141.7	140.7	72.2	
128	52.1	40.9	33.4	53.7	92.6	85.6	75.0	65.6	75.3	71.3	118.4	118.0	73.5	628	40.3	26.5	20.5	24.2	68.8	73.8	97.5	97.5	87.0	87.7	141.7	140.7	72.2	
129	102.4	69.0	35.8	82.8	100.3	83.3	83.3	73.9	99.2	94.1	90.2	79.8	71.4	629	42.5	39.4	24.1	13.5	40.7	67.8	73.4	87.0	87.7	82.2	82.9	75.3	73.2	81.3
130	33.0	34.9	32.6	42.3	137.8	98.2	127.1	131.9	100.1	93.4	101.9	108.9	86.4	630	68.1	45.7	30.6	30.5	95.9	83.0	103.6	82.2	82.2	80.8	101.8	86.5	73.3	
131	58.8	42.2	22.9	17.3	48.2	86.3	80.3	87.0	91.8	118.8	140.4	41.0	69.6	631	36.6	27.1	18.0	20.2	45.8	74.8	90.5	89.0	89.0	81.7	154.1	154.8	73.3	
132	32.2	21.8	12.5	20.8	55.5	76.2	88.6	107.2	95.5	120.2	132.1	96.6	97.0	640	70.6	43.7	32.0	25.5	67.5	31.7	72.9	71.6	93.0	77.9	106.8	63.5	97.0	
133	60.9	61.2	34.9	39.8	66.3	78.1	105.7	107.1	92.3	106.3	127.4	112.3	80.5	635	37.1	24.0	14.0	14.0	149.8	105.2	95.5	91.5	87.4	99.8	103.3	60.3	97.0	
141	60.6	48.2	40.3	17.0	51.9	41.3	84.3	96.5	76.5	105.5	120.6	80.0	71.1	642	41.9	31.7	22.3	27.7	77.3	64.9	83.6	89.1	94.7	87.8	138.4	68.6	69.9	
142	180.9	56.2	40.1	38.8	139.3	90.6	113.9	97.0	99.5	100.6	70.9	162.0	73.1	80.3	642	41.9	33.6	37.6	37.6	136.3	95.9	115.6	108.0	110.5	121.0	126.7	80.1	
143	38.6	20.4	15.0	69.9	71.5	91.6	91.6	105.7	75.9	80.2	97.3	89.1	90.0	662	65.1	41.9	28.1	21.8	34.7	54.6	78.7	78.2	106.3	99.9	112.6	118.3	80.5	
144	76.6	40.1	29.4	72.9	90.1	61.6	43.5	63.2	88.4	91.5	108.6	85.3	62.4	643	45.0	32.0	27.9	62.7	127.7	96.6	117.3	140.6	84.6	111.6	160.2	188.4	101.7	
145	32.3	20.6	12.6	21.4	57.6	70.0	110.5	105.7	96.3	104.4	110.3	118.7	71.7	645	32.6	24.0	13.6	28.1	46.4	65.2	94.8	105.4	109.4	111.5	113.3	73.3		
146	30.9	23.9	23.5	31.1	76.7	101.2	96.7	84.8	79.5	77.2	97.6	54.1	65.1	646	34.7	24.0	17.7	22.7	42.4	67.6	107.4	12.8	86.6	95.6	130.5	86.3		
147	37.4	27.7	21.9	31.5	70.7	137.3	141.7	90.1	73.5	82.5	124.3	145.3	65.3	657	43.2	31.7	27.9	35.4	137.4	105.5	102.1	103.7	105.5	121.7	127.7	77.8		
148	75.3	39.4	23.1	15.8	47.7	79.9	76.1	73.5	82.5	67.0	79.0	124.3	65.3	658	43.2	31.7	27.9	35.4	137.4	105.5	102.1	103.7	105.5	121.7	127.7	77.8		
149	63.3	29.8	14.7	22.1	59.8	72.5	90.6	87.1	71.5	104.6	100.4	86.7	67.0	660	38.6	22.4	18.6	27.7	37.5	102								

MADDEN MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
201	41.4	45.9	29.8	29.1	79.4	73.1	45.9	63.3	77.0	72.8	129.8	86.8	64.5	701	89.6	66.4	54.0	49.4	64.7	72.4	109.1	110.4	90.2	130.4	119.7	49.8	83.8	
202	57.1	49.5	35.4	51.8	71.5	68.9	92.7	91.9	85.4	85.6	90.8	88.7	72.4	702	30.8	30.6	19.1	21.5	57.6	69.0	96.7	80.2	57.2	66.1	141.5	134.4	67.1	
203	33.6	33.3	22.9	21.2	74.6	68.1	73.6	92.0	93.2	103.8	158.9	71.3	703	55.0	41.4	32.9	30.7	64.3	85.5	82.6	121.8	79.2	87.9	116.4	144.3	78.5		
204	61.4	39.8	30.6	15.4	50.2	98.6	108.4	97.3	96.3	100.2	94.9	55.9	70.8	704	36.2	24.4	17.6	62.2	100.6	65.4	52.5	80.4	80.9	166.7	110.1	67.9		
205	29.4	19.4	16.3	44.7	97.0	88.1	63.0	78.5	78.5	78.5	106.9	71.2	61.7	706	69.6	30.5	33.1	71.9	81.4	83.8	75.8	80.3	74.1	141.0	92.8	71.4		
206	25.4	22.3	23.3	43.3	78.2	78.9	121.0	139.4	89.0	148.4	177.9	174.2	95.3	707	35.8	31.3	23.0	21.0	56.0	94.9	99.8	86.3	67.6	72.0	134.9	91.2	68.8	
207	47.4	42.0	23.2	47.1	56.1	42.6	49.4	65.9	76.9	100.8	113.2	68.2	708	29.3	23.0	21.8	36.9	68.4	34.4	23.3	33.4	90.5	101.9	107.9	73.4	131.2	74.5	
208	190.3	30.6	22.0	23.2	47.1	50.1	123.9	90.5	86.4	77.9	74.5	79.9	80.9	709	82.7	44.0	24.4	19.4	74.7	82.4	72.4	93.5	77.3	195.4	77.8	77.8		
209	65.9	47.4	41.7	41.0	76.8	116.8	121.2	105.2	78.4	73.2	112.9	89.7	80.9	710	111.3	51.3	34.6	18.4	83.9	77.3	106.4	40.1	27.8	99.7	180.6	88.0	128.7	100.2
210	27.8	27.0	22.8	50.1	123.9	90.5	86.4	77.9	74.5	94.7	108.8	24.2	90.4	711	106.4	40.1	27.8	99.7	106.4	74.9	85.7	102.6	143.3	22.6	72.8	72.8		
211	57.3	35.5	27.7	43.1	69.5	89.3	118.2	115.1	83.2	82.2	123.2	101.1	71.7	712	36.1	21.4	13.9	13.3	38.5	54.7	67.2	74.9	85.7	102.6	143.3	126.3	75.6	
212	115.0	48.7	32.2	31.6	63.8	85.6	56.0	63.4	72.9	65.9	123.2	101.1	71.7	713	68.6	34.2	36.4	66.7	81.3	69.7	61.1	79.9	78.6	65.5	129.4	136.3	75.6	
213	55.0	34.1	21.0	38.1	86.8	112.5	105.5	82.1	87.9	86.8	118.7	124.6	79.4	714	62.3	50.4	37.4	39.1	64.1	68.7	75.3	66.0	98.1	88.3	115.6	121.3	77.2	
214	35.3	29.2	23.7	28.4	85.8	72.7	87.2	95.6	67.7	107.9	139.1	116.7	75.8	715	63.5	29.9	24.6	64.3	98.5	77.2	93.1	102.9	105.9	119.6	123.7	115.8	84.0	
215	50.4	31.4	31.6	55.6	75.7	76.0	89.5	103.6	123.6	95.9	68.8	73.9	716	44.0	26.4	21.4	46.8	63.6	43.2	76.1	79.9	93.4	115.2	66.5	57.7			
216	37.6	36.9	27.7	34.8	71.0	107.1	103.4	108.5	77.5	104.5	108.0	79.1	74.7	717	44.0	26.4	21.4	46.8	84.6	91.1	91.1	73.8	118.4	122.2	73.4			
217	45.9	26.9	23.3	24.0	57.1	73.1	110.3	103.2	103.5	148.9	129.1	82.2	79.9	718	50.5	38.2	24.8	34.9	80.5	92.0	104.9	122.1	92.6	92.7	110.7	107.0		
218	43.6	27.5	19.8	21.1	61.7	93.7	98.8	90.3	61.2	85.2	144.2	45.9	66.6	719	108.4	37.2	27.8	21.3	30.9	85.3	109.7	119.0	97.1	77.4	84.4	149.1	125.7	86.3
219	34.9	19.8	18.1	15.2	55.8	79.9	83.2	92.5	77.0	72.4	74.1	62.9	57.2	720	54.8	30.7	30.0	38.6	87.4	69.1	101.9	96.2	79.8	92.5	98.7	129.8	75.8	
220	39.3	30.4	21.1	23.6	55.2	83.1	82.8	94.5	81.1	82.6	78.9	118.7	124.6	79.4	721	45.7	26.8	20.0	51.0	146.9	109.9	130.0	122.3	85.7	92.0	107.5	79.2	84.8
221	31.0	30.1	20.4	28.1	53.6	80.3	94.8	72.1	83.6	84.3	122.9	124.9	62.1	722	38.0	26.6	23.5	33.4	65.2	48.4	72.9	104.3	61.8	82.6	74.5	148.4	63.5	
222	28.5	30.6	22.0	19.9	62.0	78.4	97.1	105.5	87.4	98.8	114.1	111.7	60.4	723	36.0	28.7	22.5	27.5	72.6	69.7	60.3	51.1	65.0	83.5	119.4	84.9	60.1	
223	82.9	44.2	27.6	44.7	81.3	107.7	96.7	81.6	75.1	98.6	140.6	121.0	80.1	724	38.6	24.4	21.4	43.4	79.7	83.1	80.3	70.6	133.9	83.0	65.0			
224	85.7	38.8	31.6	32.3	121.9	114.0	112.4	102.3	90.0	77.6	81.1	100.0	101.1	80.2	725	44.1	23.9	19.1	30.1	50.1	76.6	72.0	90.5	59.7	70.7	149.9	101.4	65.6
225	50.0	33.1	23.3	35.0	93.1	100.0	100.0	101.1	80.2	72.6	76.0	100.0	115.3	161.1	62.7	726	36.1	27.5	21.1	35.4	86.0	83.7	98.6	80.3	130.9	130.0	89.8	
226	42.0	30.6	21.4	24.2	90.5	67.1	37.3	20.8	62.7	70.9	115.3	161.1	62.7	727	31.4	31.8	30.2	32.8	58.1	65.5	69.2	61.0	85.2	93.5	160.7	72.9		
227	58.6	20.0	15.1	16.2	48.3	48.3	66.7	84.4	95.4	78.9	117.9	123.0	132.1	71.4	728	51.4	52.9	44.6	65.4	84.9	88.4	72.4	64.5	71.6	95.8	117.8	89.1	74.9
228	54.6	32.7	23.5	23.7	24.9	80.5	101.7	101.2	101.1	92.2	76.5	77.7	72.0	729	50.2	38.0	31.8	41.0	93.5	74.0	61.2	94.9	80.3	81.3	114.8	84.7	67.1	
229	56.3	25.5	20.0	17.1	42.4	62.2	109.1	117.1	72.2	70.7	117.4	121.1	69.3	730	59.1	32.3	27.9	32.5	62.7	69.7	60.3	51.1	65.0	83.5	119.4	84.9	60.1	
230	44.3	27.6	23.7	57.2	101.6	73.4	83.4	74.5	81.1	84.3	106.0	107.3	50.7	731	32.6	23.4	17.0	25.6	72.7	72.7	72.7	72.7	72.7	72.7	101.5	94.7	66.3	
231	26.3	22.3	19.1	29.1	75.3	72.2	83.5	89.3	81.1	72.7	97.9	113.8	65.3	732	39.8	33.3	29.6	32.9	72.7	92.9	70.7	70.7	107.0	104.9	124.7	71.8		
232	55.9	51.4	27.0	19.8	78.0	69.7	62.0	56.0	70.6	78.3	141.8	159.9	72.5	733	26.6	20.9	14.6	46.4	73.0	80.4	86.1	62.2	116.8	120.2	116.8	70.5		
233	120.1	39.8	29.5	18.1	58.5	103.0	110.3	88.4	91.7	97.5	117.5	117.5	61.1	734	59.4	55.2	49.4	55.1	71.1	88.6	81.4	72.4	97.5	107.0	121.9	72.0		
234	68.0	31.8	23.3	27.1	61.9	83.3	104.0	90.4	82.7	75.6	72.5	77.4	69.2	735	52.9	35.8	24.1	19.7	87.7	84.2	82.4	99.6	96.2	131.7	106.2	117.2	68.3	
235	44.6	25.8	17.0	19.4	87.6	84.7	89.4	66.9	64.4	70.4	115.0	167.9	122.9	66.5	736	29.9	29.3	19.7	18.7	43.4	61.3	76.7	76.7	76.7	76.7	121.9	190.4	92.6
236	38.7	27.1	17.2	15.3	43.9	48.3	66.0	91.8	79.7	76.5	113.0	108.9	60.8	737	44.1	31.1	27.8	32.2	44.1	52.6	92.8	70.6	96.7	98.8	116.1	91.0	67.5	
237	106.2	48.9	33.1	68.2	80.4	80.6	74.9	56.7	67.7	78.1	87.4	92.4	65.5	738	42.0	26.5	21.4	40.7	57.2	66.9	94.7	102.7	78.3	104.8	61.4	67.0		
238	37.0	18.4	11.9	16.1	64.0	98.1	118.9	95.9	67.6	65.6	102.1	132.2	102.2	69.8	739	40.0	27.0	24.4	40.7	57.2	66.9	94.7	102.7	78.3	104.8	61.4	67.0	
239	84.2	38.7	23.1	34.4	52.6	70.6	83.5	94.8	87.7	81.1	132.4	117.6	42.4	740	28.0	21.3	17.1	25.5	39.7	59.7	101.8	75.7	124.7	111.8	80.8			
240	57.1	33.3	22.6	18.6	47.9	75.4	106.1	91.7	87.4	82.7	117.7	117.7	72.2	741	32.2	27.9	21.7	31.1	44.1	52.1	73.2	73.2	73.2	73.2	121.6	66.3		
241	64.9	29.4	24.0	25.6	63.3	101.4	95.9	66.5	96.7	97.4	108.6	73.5	69.7	742	37.6	24.0	21.1	16.5	16.8	53.6	86.6	82.6	109.9	99.4	83.2	136.0	140.7	
242	34.4	24.0	22.0	49.6	100.0	87.1	107.6	62.8	55.0	53.9	73.6	77.9	111.1	56.6	759	44.8	34.2	23.2	27.5	75.5	91.8	94.1	83.0	79.8	111.3	96.7	75.4	

MADDEN MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
301	178.6	43.7	30.7	25.4	63.4	92.8	97.3	106.0	96.3	103.1	120.3	166.0	93.6	801	62.3	31.0	20.5	43.4	99.4	85.7	60.4	66.2	69.4	119.2	160.3	129.8	79.0	
302	53.2	61.0	48.9	27.8	89.6	92.0	99.5	89.4	68.8	75.8	116.0	109.8	77.7	802	153.7	50.1	43.0	80.6	121.4	89.0	83.1	95.5	91.9	111.0	79.2	47.3	87.2	
303	43.5	30.6	25.8	233.1	117.3	93.2	106.7	94.3	96.7	111.7	98.9	51.3	91.9	803	29.6	26.7	25.1	78.1	102.8	112.9	67.3	82.0	78.8	70.7	90.5	65.3		
304	36.4	30.0	25.7	44.7	84.1	67.4	83.6	43.9	81.8	77.0	145.7	73.6	66.2	804	39.0	27.3	21.1	41.4	97.1	89.4	100.9	95.2	96.7	165.7	107.0	98.8	81.6	
305	39.0	22.4	22.5	14.3	40.3	52.5	63.6	96.6	57.3	98.7	108.7	123.2	58.4	61.6	805	37.1	25.8	22.6	30.6	78.9	95.2	102.9	106.4	99.2	88.9	184.1	206.7	70.1
306	34.5	17.5	14.0	31.4	59.5	71.5	94.3	81.5	86.4	94.5	125.1	118.0	69.0	806	44.9	38.0	29.1	40.6	66.7	57.3	66.3	84.4	84.8	82.3	114.2	133.0	70.1	
307	71.9	26.7	21.8	33.4	59.6	57.5	71.3	116.3	99.2	85.0	203.3	137.4	82.0	807	262.3	53.7	35.3	59.3	75.4	98.6	110.9	96.9	66.8	85.6	126.4	144.2	101.3	
308	59.7	37.7	30.8	28.5	85.1	105.2	120.2	120.5	103.5	187.1	199.4	155.3	94.5	808	74.5	38.2	23.5	31.4	36.6	75.5	70.6	74.5	82.6	85.4	189.7	73.8		
309	114.4	66.2	24.8	27.8	42.6	82.0	97.3	87.9	99.9	88.8	225.5	218.8	97.8	809	33.9	21.8	17.8	74.5	98.6	108.4	111.1	71.7	81.0	60.4	136.3	69.2		
310	74.2	43.2	28.9	162.6	104.1	89.4	112.8	121.7	94.8	84.5	92.7	92.3	91.8	810	81.8	31.6	22.8	37.3	60.7	81.7	94.6	104.9	90.5	109.7	85.4	107.6	75.7	
311	29.1	22.5	15.9	31.3	61.9	83.1	102.8	88.1	83.6	90.2	227.3	77.6	61.1	811	54.5	26.8	17.4	21.6	106.9	102.8	85.8	130.4	94.9	97.1	123.6	131.1	83.2	
312	87.5	40.7	38.1	37.6	52.5	42.4	72.7	97.1	88.2	87.2	87.4	68.9	66.7	812	46.0	32.6	32.5	36.2	51.5	69.1	104.1	108.6	114.6	101.4	139.8	157.4	42.5	91.0
313	30.2	19.2	13.9	19.1	52.4	95.7	92.9	109.5	95.0	91.0	124.9	47.4	65.9	813	30.8	18.2	14.1	23.6	53.5	98.6	87.5	135.8	104.6	100.1	127.3	95.1	74.1	
314	37.7	33.7	26.3	35.2	58.3	84.3	84.3	73.8	74.9	77.9	78.2	100.0	66.6	814	126.9	40.5	29.8	61.8	113.3	94.8	83.9	77.7	81.3	67.4	100.2	87.0	80.3	
315	51.6	32.8	22.0	26.8	67.5	86.6	64.8	81.7	79.0	113.7	161.2	154.4	75.8	815	55.2	28.3	22.8	39.8	62.6	94.2	82.0	74.6	102.5	103.8	115.5	184.0	80.4	
316	62.2	28.7	25.2	65.1	69.9	85.7	110.9	88.3	56.3	64.6	105.8	71.0	69.5	816	59.7	24.2	14.1	22.3	77.3	84.9	86.7	74.5	72.5	76.9	97.1	63.4		
317	41.7	22.2	19.5	33.1	95.6	81.0	116.3	98.8	130.0	150.0	147.0	88.1	817	41.6	26.0	24.5	28.7	85.3	93.6	90.1	102.6	62.1	87.8	139.3	124.5	75.5		
318	32.9	27.5	24.3	22.9	84.7	83.0	111.3	114.9	80.6	124.0	91.6	82.4	73.4	818	55.5	24.8	28.9	61.0	66.6	71.6	58.5	81.2	91.0	114.8	80.5	64.8		
319	68.2	25.7	18.9	21.5	54.5	80.9	70.8	103.8	84.6	80.2	105.7	54.0	64.1	819	40.1	27.8	22.6	17.9	58.9	70.3	109.1	128.0	99.1	98.8	95.2	132.9	75.1	
320	49.1	27.7	18.5	23.5	76.9	76.6	96.0	74.6	99.8	82.7	96.8	94.1	71.1	67.9	820	96.3	31.3	24.8	52.6	63.1	41.9	37.8	61.1	66.6	83.2	81.8	133.1	64.5
321	48.1	25.3	20.5	37.7	62.7	73.6	61.4	60.1	77.2	75.6	119.8	48.5	59.3	821	66.2	46.8	29.9	83.8	103.4	102.3	125.3	132.3	99.8	117.1	149.4	94.0		
322	29.7	23.6	16.7	27.9	41.7	106.1	110.3	123.9	94.4	94.8	89.9	83.6	70.2	822	45.4	39.6	27.9	62.9	102.5	103.8	116.0	93.5	82.2	116.7	84.6	84.1	77.4	
323	33.4	24.5	23.8	19.7	54.4	91.0	115.3	118.1	76.1	96.6	75.6	173.9	75.5	823	37.5	24.4	19.8	19.1	80.1	78.1	75.4	82.7	73.2	60.0	101.6	103.0	69.0	
324	41.3	36.0	21.0	17.3	63.0	67.9	73.1	94.6	83.1	114.0	105.1	116.3	69.4	824	42.5	31.6	27.0	21.5	77.3	75.9	96.2	84.8	75.0	95.5	92.3	110.4	69.2	
325	38.5	32.4	25.1	29.7	82.9	119.3	127.0	112.7	80.1	102.6	142.4	144.6	86.4	825	63.1	28.5	21.0	18.0	83.3	82.4	82.4	59.6	82.4	107.7	80.8	60.7	60.7	
326	59.7	25.0	13.7	18.0	62.3	65.5	68.6	82.6	58.3	67.5	127.1	133.5	65.2	826	49.2	20.8	14.8	24.8	53.6	97.5	65.3	67.7	97.9	76.5	134.2	65.7	70.9	
327	42.5	18.2	12.2	18.4	52.4	82.6	80.1	91.6	67.1	78.2	104.9	81.4	60.8	827	43.9	27.2	24.8	53.6	65.5	63.5	63.3	63.3	128.2	116.6	122.6	72.1		
328	35.9	28.2	18.3	15.2	38.7	43.0	40.2	41.8	83.2	90.7	138.9	100.7	56.2	828	29.2	25.3	20.5	17.8	20.7	70.6	12.2	109.8	100.3	91.3	78.1	128.2	74.5	
329	72.8	37.2	33.0	27.6	73.3	68.0	88.2	102.2	71.2	87.8	152.1	85.0	75.0	829	48.4	35.7	38.2	80.3	86.6	70.3	100.0	115.9	96.4	96.3	83.3	82.3	42.3	
330	27.3	20.8	11.0	21.2	68.3	100.3	94.9	88.8	75.8	83.3	78.5	105.4	64.6	830	30.0	25.5	23.0	23.3	66.5	54.5	70.0	78.9	76.0	116.0	72.9	60.0		
331	60.5	39.3	22.3	65.9	111.9	80.5	58.5	67.4	85.3	71.5	90.0	40.3	66.1	831	38.6	25.5	23.0	23.3	66.5	54.7	70.0	78.9	76.0	116.0	114.6	158.7		
332	25.3	17.6	11.9	15.9	63.9	75.4	120.8	109.6	90.5	71.1	88.0	97.3	65.6	832	28.7	19.2	11.4	12.6	33.3	75.6	89.2	109.1	101.0	95.5	116.4	63.6		
333	37.1	22.7	16.0	22.5	117.0	107.8	83.7	92.0	78.0	78.7	173.7	30.3	30.0	833	46.9	24.0	17.8	20.6	34.0	59.7	80.8	98.7	127.7	63.4	67.4			
334	116.7	59.5	47.2	47.1	81.3	89.2	94.0	102.4	95.0	86.0	95.8	132.6	97.4	67.2	833	42.9	25.7	27.5	51.5	77.5	105.1	97.4	91.1	98.6	142.5	51.8	97.8	
335	63.8	30.9	17.9	23.8	68.5	127.7	112.7	70.4	85.3	119.3	126.9	77.1	73.9	836	37.8	32.5	23.7	82.6	90.2	87.6	87.6	87.6	110.0	113.0	79.6	65.5		
336	54.4	36.7	30.8	44.7	54.5	53.4	53.4	59.4	89.6	86.6	120.8	81.8	66.7	837	39.7	31.6	24.1	25.3	24.1	95.3	58.8	55.8	81.8	80.1	131.1	99.7	90.0	
337	36.4	24.9	21.4	34.8	80.7	70.5	107.3	121.5	102.5	98.2	91.1	74.1	72.6	838	44.6	25.3	21.5	26.5	25.3	24.1	95.3	89.3	80.3	152.0	132.3	74.9		
338	36.4	20.7	17.8	24.8	48.2	68.5	81.1	88.1	57.6	68.9	124.7	91.0	74.0	839	38.7	23.9	19.0	32.0	91.0	108.6	90.2	120.2	93.4	92.2	106.7	75.7		
339	86.9	36.5	25.3	39.0	67.6	49.2	70.9	80.9	72.2	100.8	99.6	132.6	71.8	71.8	840	35.0	20.1	15.4	18.8	46.0	75.3	72.9	80.5	82.4	117.3	111.1	64.1	
340	31.6	30.5	24.8	30.8	57.0	53.8	71.5	65.2	83.6	86.6	90.5	75.3	56.3	841	33.4	26.2	23.5	35.5	49.3	87.7	80.7	92.0	75.5	121.2	141.1	74.6		
341	47.5	27.5	16.6	17.8	60.4	44.7	86.5	57.7	66.2	81.7	84.5	164.4	63.0	63.0	842	37.9	20.7	17.4	22.8	35.4	73.1	80.8	94.5	80.7	149.7	138.7	76.4	
342	68.3	39.9	21.4	19.7	44.5	89.2	61.4	66.6	68.4	77.0	105.7	132.9	66.4	65.5	843	34.3	21.5	16.7	20.1	32.5	34.9	57.0	80.5	69.3	120.8	104.9	58.0	

MADDEN MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
401	59.3	36.1	20.2	29.9	106.8	99.1	73.0	90.8	87.6	92.6	185.7	97.7	81.6	901	29.6	21.9	20.9	39.6	53.4	55.0	85.1	94.1	79.6	83.7	127.0	175.7	72.1	
402	41.4	27.9	20.4	24.1	69.2	93.1	65.6	74.9	73.8	102.2	91.4	108.6	66.1	902	87.0	32.4	24.3	20.7	50.1	73.5	82.1	61.7	55.9	89.2	120.1	116.7	67.8	
403	41.6	24.1	16.8	17.8	65.7	73.2	119.6	119.0	93.5	94.4	88.0	69.3	68.8	903	59.5	30.0	22.9	29.2	64.4	59.0	70.7	48.8	86.6	128.0	91.3	54.8	65.1	
404	28.6	29.1	21.7	43.9	83.8	85.2	111.2	106.7	73.7	79.2	90.4	41.9	66.3	904	51.9	27.1	18.0	15.6	46.6	64.5	102.5	12.5	103.9	93.3	119.8	52.0	67.3	
405	43.2	42.2	26.2	24.2	76.0	115.7	116.5	125.1	75.0	65.6	89.8	100.3	75.0	905	37.3	39.0	30.4	22.3	70.9	84.6	92.3	124.0	86.6	83.6	105.5	89.0	72.1	
406	50.6	27.0	17.2	27.6	44.1	65.7	92.7	75.0	74.5	72.7	75.5	127.0	60.8	906	40.7	30.3	25.8	18.8	55.0	64.6	100.2	5.6	87.9	82.2	86.6	71.2	62.4	
407	71.3	30.8	26.1	18.9	64.8	62.7	90.3	93.1	100.0	97.1	134.7	115.5	75.4	907	32.8	28.9	20.9	71.7	107.2	92.7	96.7	81.5	73.4	68.3	139.1	107.6	76.7	
408	33.7	26.5	27.0	109.5	96.4	74.4	78.4	88.0	94.3	92.4	119.2	66.5	75.5	908	70.6	38.0	27.5	61.0	90.2	65.1	72.0	69.9	51.1	92.5	163.5	86.7	74.0	
409	48.4	42.8	24.3	17.0	50.8	42.7	78.6	102.4	73.7	101.2	151.6	159.3	74.4	909	35.9	30.2	31.9	50.7	112.1	64.3	39.9	51.7	74.4	87.6	92.2	57.1	60.7	
410	48.3	30.0	24.3	23.0	83.0	93.7	64.6	68.3	87.3	97.4	119.4	71.4	67.6	910	40.3	20.2	14.6	51.5	63.5	58.0	51.2	84.4	102.4	96.6	130.7	61.0		
411	40.9	23.3	14.4	17.4	41.5	64.6	59.4	63.6	95.6	133.1	119.1	208.3	73.4	911	35.3	29.2	19.3	33.3	73.3	104.4	98.8	110.0	91.1	73.2	100.2	23.0	83.9	
412	87.1	41.1	33.4	32.2	57.1	85.9	70.1	61.1	77.1	91.5	88.7	86.3	67.6	912	257.8	57.3	30.3	22.2	75.3	97.5	94.2	100.2	73.1	95.6	156.4	68.1	94.5	
413	27.1	20.2	13.6	28.8	93.1	105.7	78.9	63.0	74.6	71.1	103.8	200.1	73.6	913	28.0	21.2	12.4	22.8	81.4	64.2	99.2	86.3	106.3	120.9	71.5	67.8		
414	69.3	28.8	22.7	17.9	52.7	74.8	53.9	102.1	98.2	85.1	88.8	158.3	71.0	914	41.2	37.4	29.5	19.8	51.9	84.4	97.6	101.8	76.0	85.7	84.1	50.3	63.3	
415	62.2	30.6	19.2	20.0	80.9	77.2	93.4	74.9	80.0	101.6	116.4	75.7	69.3	915	30.6	19.7	14.2	15.4	44.2	94.5	122.1	115.1	106.6	114.5	121.6	152.9	79.3	
416	25.8	23.1	19.7	17.2	54.8	76.7	87.3	78.6	83.6	92.6	148.0	190.9	74.9	916	50.3	25.4	21.4	19.2	43.8	67.8	89.0	79.0	64.9	84.0	71.6	57.8		
417	135.3	107.6	56.2	76.8	174.1	117.5	84.6	81.7	81.3	95.4	140.7	118.8	105.8	917	54.5	45.4	37.4	26.6	64.4	74.7	66.4	62.4	73.7	98.1	113.2	145.6	70.8	
418	60.4	54.8	42.8	44.0	131.6	86.6	68.1	83.5	85.1	92.8	83.4	57.8	74.2	918	33.0	18.7	15.3	10.1	81.9	101.1	83.9	75.5	95.3	98.4	99.4	59.1	65.3	
419	40.9	24.3	16.8	29.5	54.9	94.7	100.6	117.8	88.5	66.1	103.8	126.1	72.0	919	31.6	31.7	22.4	34.1	54.6	72.7	100.3	101.5	78.1	63.5	113.2	145.6	91.1	
420	53.7	33.5	23.8	43.8	73.2	47.1	54.2	85.1	88.5	122.4	79.5	65.3	92.0	919	38.5	28.0	21.9	29.4	57.8	78.0	91.5	111.3	102.0	139.9	22.6	69.0		
421	42.8	27.7	16.8	19.4	60.4	70.7	85.2	105.1	97.1	96.0	114.0	109.4	68.7	921	71.4	70.6	49.6	31.5	63.7	76.2	95.1	110.3	91.4	100.3	176.0	203.6	95.0	
422	75.9	40.5	23.5	32.3	86.5	100.7	73.1	69.9	87.5	94.6	102.3	112.2	75.0	922	64.4	61.1	34.4	24.8	69.9	83.4	93.4	122.1	115.1	106.6	114.5	121.6	152.9	
423	55.7	25.4	21.2	39.4	68.2	107.7	117.2	121.7	81.7	86.9	93.6	115.3	77.8	923	47.8	24.7	22.8	33.1	99.7	83.8	84.7	62.3	88.4	90.5	110.8	125.3	63.3	
424	43.9	31.1	23.4	31.2	54.1	92.9	76.2	106.5	92.5	90.7	80.4	98.4	165.8	74.6	924	59.0	32.7	22.3	15.3	81.6	84.4	98.5	68.3	83.2	80.0	110.8	125.3	68.2
425	48.6	27.6	20.5	25.9	93.6	62.8	99.3	74.2	92.0	74.3	117.9	62.0	66.6	925	31.4	24.9	18.1	25.8	84.4	98.5	102.2	77.0	77.7	117.7	121.9	79.8		
426	35.9	32.9	28.8	52.2	85.4	99.3	130.7	109.1	95.5	94.9	110.5	75.7	79.2	926	39.6	32.1	25.6	18.6	109.1	74.3	83.6	78.4	87.0	83.2	115.3	88.8	66.9	
427	41.0	22.7	16.9	15.5	66.0	51.6	58.6	46.9	68.7	69.3	115.1	95.6	92.0	927	38.5	28.0	23.5	18.5	40.2	66.1	86.8	74.5	77.0	95.3	83.8	94.7	76.8	
428	95.6	40.6	27.2	157.7	112.9	97.8	94.5	112.2	87.8	77.3	119.5	95.6	92.0	928	52.5	23.5	18.7	21.5	111.6	85.5	88.3	78.9	83.3	87.7	137.0	172.8	75.7	
429	42.2	29.2	24.0	72.3	67.6	85.8	74.9	89.1	106.9	90.6	93.0	102.5	73.2	929	43.0	41.1	33.1	49.7	57.5	95.8	77.1	84.9	81.1	83.9	82.9	86.6	110.0	
430	38.3	31.0	24.3	53.4	108.4	111.4	97.6	91.1	80.9	114.9	143.9	79.9	68.4	931	31.1	30.3	17.9	18.4	39.1	59.6	51.1	73.6	84.8	119.2	117.3	89.6		
431	47.3	28.6	19.6	15.2	60.6	60.5	75.1	94.1	80.9	114.9	143.9	79.9	68.4	932	135.1	45.0	32.8	27.7	101.4	85.3	80.5	87.4	109.7	126.1	82.8			
432	61.2	39.2	27.6	18.1	56.0	96.0	80.7	123.0	89.3	76.0	77.5	117.5	71.1	61.5	940	49.7	28.0	22.8	16.9	86.8	82.6	78.7	82.2	85.3	83.5	65.1		
433	42.7	28.6	19.7	23.9	72.0	55.7	46.3	60.2	82.6	86.4	84.6	102.1	57.0	941	37.8	21.0	13.1	22.0	87.7	77.5	74.1	77.0	71.9	83.9	67.8	66.7		
434	36.3	27.5	24.2	42.6	88.2	94.1	110.0	126.0	95.6	106.0	156.5	176.0	70.5	954	28.3	25.9	21.3	15.6	87.5	82.8	82.2	104.1	80.1	84.6	69.7	69.7		
435	55.2	36.0	23.8	28.8	80.1	87.0	119.4	111.8	102.5	125.1	121.1	77.3	70.0	944	52.1	28.2	21.0	16.8	63.8	72.4	101.5	97.8	86.0	88.3	94.0	86.0		
436	34.6	20.3	13.2	30.9	58.7	119.4	111.8	102.5	125.1	121.1	77.3	70.0	944	53.6	21.1	17.3	12.7	50.5	54.3	58.2	60.2	87.0	82.4	114.9	101.2	76.8		
437	35.6	20.7	13.4	20.9	48.4	50.6	73.7	117.0	82.7	90.6	95.3	153.2	93.2	927	38.6	30.4	22.5	16.8	63.8	72.2	102.1	128.2	136.9	97.4	87.9			
438	41.3	25.2	18.5	15.4	85.8	64.7	69.7	104.1	64.8	121.4	181.4	80.4	60.0	946	79.5	39.6	32.5	27.2	47.9	57.5	91.1	102.1	123.9	95.7	133.9			
439	42.4	24.3	17.0	16.2	67.7	77.0	66.6	73.7	75.6	109.0	122.8	111.2	95.1	947	89.7	31.1	27.4	22.8	40.2	97.5	97.8	136.8	128.2	97.5				
440	39.9	26.7	16.9	13.9	57.5	77.6	83.9	92.2	103.2	107.7	141.1	102.8	80.5	955	60.0	35.6	32.5	27.4	41.5	54.7	53.1	41.9	45.6	126.2	87.7			
441	59.2	38.1	21.6	31.3	62.7	92.0	105.9	100.6	68.2	75.2	85.9	218.0	80.8	965	43.3	18.7	12.4	19.0	52.7	90.5	93.3	103.0	98.9	110.8	127.6	166.3	78.0	
442	44.6	24.1	13.1	21.5	62.3	71.6	106.4	97.5	89.9	123.8	126.9	102.7	90.5	966	51.0	35.8	30.0	23.3	51.7	60.8	67.7	90.1	99.6	87.7	104.1	84.6		
443	151.7	49.3	37.2	29.1	63.6	68.7	77.7																					

GATUN DOWNSTREAM MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
1	81.5	41.2	27.2	22.1	46.1	42.2	62.0	72.0	116.4	153.5	249.7	161.3	89.6	501	35.0	21.6	16.0	67.9	146.2	114.0	123.7	125.4	130.2	270.4	419.9	212.0	140.2	
2	34.9	24.3	22.1	15.3	51.7	62.8	71.3	102.6	137.3	176.2	209.8	191.4	91.6	502	98.1	48.9	31.4	34.8	92.8	120.0	132.6	165.0	111.6	220.5	247.0	172.4	122.9	
3	105.1	44.8	32.1	140.7	154.7	119.9	94.6	86.1	105.0	190.1	201.4	193.7	122.4	503	50.5	21.2	15.6	28.0	71.3	170.1	136.9	109.1	139.9	134.1	198.9	148.2	102.0	
4	57.4	39.6	28.4	56.9	66.7	111.5	131.5	153.7	178.6	226.9	280.4	122.1	121.1	504	66.7	46.2	33.1	39.9	84.4	119.8	94.2	129.7	132.9	202.9	172.5	168.7	107.6	
5	71.1	35.8	37.0	36.8	109.1	178.1	174.8	198.1	153.4	179.5	210.2	89.1	122.8	505	125.3	38.7	22.6	23.9	66.0	95.8	85.0	149.0	158.4	146.6	183.4	202.8	108.1	
6	55.8	40.2	30.3	49.7	78.1	97.3	63.6	102.6	155.6	253.0	99.7	95.7	506	38.6	14.5	9.2	17.2	72.1	105.8	105.7	138.9	170.4	248.9	251.2	156.1	110.9		
7	38.2	24.4	16.0	29.0	85.8	99.7	57.0	82.2	150.0	204.6	375.3	163.6	110.5	507	178.5	56.0	30.4	22.5	60.4	72.4	102.9	127.7	166.4	189.5	257.6	164.2	119.0	
8	76.8	31.0	16.7	13.6	87.1	104.4	96.9	125.3	137.9	229.5	220.8	252.2	116.1	508	88.5	25.4	20.7	37.1	92.8	142.9	149.2	181.5	157.2	231.8	223.7	265.1	134.7	
9	45.0	32.1	28.0	21.2	74.0	102.7	98.9	120.7	108.2	131.2	101.9	82.6	78.9	509	72.8	42.7	44.9	70.6	141.8	104.1	98.5	132.4	120.4	202.7	279.6	184.2	124.6	
10	31.5	21.4	10.8	33.4	93.9	117.9	119.3	173.0	189.1	243.0	220.9	158.3	117.7	510	82.1	30.9	18.7	70.9	92.4	81.6	146.8	127.4	162.9	181.4	120.5	94.1		
11	53.2	18.9	9.2	48.9	122.7	167.7	150.3	182.0	165.9	229.7	255.3	68.3	122.7	511	56.5	32.7	19.1	11.9	62.0	122.5	132.8	196.9	179.4	234.2	181.5	87.3	109.7	
12	47.0	29.2	32.9	26.0	78.0	135.5	97.4	156.1	143.5	224.9	288.9	139.0	116.5	512	28.4	26.2	16.8	20.0	76.3	101.4	141.3	154.6	198.7	166.7	218.5	208.8		
13	69.2	30.0	17.1	31.1	82.9	99.4	87.0	121.3	153.6	228.6	318.1	128.7	113.9	513	45.7	26.8	18.4	22.2	74.8	73.5	51.2	40.3	92.5	134.2	168.3	70.8	68.2	
14	107.7	43.3	31.1	31.7	83.9	109.3	123.6	142.0	150.2	232.4	263.3	194.8	126.3	514	58.6	35.0	25.3	29.9	119.0	157.1	162.3	167.2	172.7	195.9	123.0	51.8	108.0	
15	50.8	27.0	21.5	40.2	107.3	133.7	87.3	85.1	107.6	219.4	233.9	131.3	103.8	515	74.4	44.1	40.5	42.4	116.1	121.3	143.4	169.4	119.5	197.6	210.5	296.2	131.3	
16	63.6	30.8	18.5	21.7	10.3	138.9	136.0	176.4	176.3	245.8	308.1	157.2	128.5	516	61.6	31.8	28.5	19.2	99.3	105.8	139.0	178.0	161.9	224.1	181.3	95.7		
17	42.5	23.2	16.7	23.5	81.4	120.1	105.4	93.2	122.2	168.7	131.9	70.2	83.3	517	51.4	29.4	17.8	18.8	72.7	121.2	147.4	189.3	162.2	273.6	259.6	155.0		
18	80.2	26.3	14.8	19.4	79.8	94.0	103.3	99.1	126.4	154.0	191.3	127.2	93.0	518	50.8	29.4	19.8	32.2	85.2	111.7	145.2	172.7	184.7	186.0	175.9	162.0	113.0	
19	42.7	23.2	11.8	29.7	124.8	113.3	107.9	123.4	115.3	204.3	239.9	91.5	520	40.3	36.6	27.8	35.2	74.4	137.1	158.5	190.3	177.5	175.7	165.4	131.6	112.5		
20	56.5	39.4	29.0	31.3	79.0	82.4	35.6	74.3	87.2	137.5	204.3	239.9	91.5	520	40.3	36.6	27.8	35.2	74.4	137.1	158.5	190.3	177.5	175.7	165.4	131.6	112.5	
21	230.0	59.6	30.9	93.5	92.9	116.3	118.3	119.2	162.9	159.7	148.3	104.7	81.4	521	49.1	30.3	23.0	22.8	60.3	85.4	98.1	78.0	97.3	236.7	149.4	82.0	83.5	
22	45.6	19.6	18.0	15.3	75.1	136.0	139.3	138.4	131.6	206.9	195.6	99.1	101.7	522	36.3	25.9	15.5	24.2	64.0	90.9	77.5	114.9	134.2	166.8	159.8	70.2	81.7	
23	48.7	32.0	24.9	28.1	85.4	83.9	137.7	176.3	163.9	158.1	144.1	140.4	162.8	523	31.1	24.2	23.3	25.9	75.4	79.4	81.3	101.3	155.1	185.1	254.6	170.1	103.7	
24	77.6	35.4	26.1	32.2	89.5	78.6	80.7	106.3	125.5	199.2	150.2	94.3	119.3	524	54.6	28.8	8.7	62.2	62.3	56.4	110.0	171.4	303.6	299.4	89.3	105.1		
25	70.2	50.4	30.1	46.7	75.9	110.8	128.9	129.8	146.8	167.6	171.2	131.1	102.4	525	52.5	32.7	22.0	28.7	70.6	126.4	91.8	132.6	149.3	186.0	176.2	107.7		
26	65.8	21.1	22.6	24.9	63.3	82.1	99.5	75.7	139.3	130.8	129.4	111.2	81.0	526	38.3	26.9	25.6	36.2	76.4	89.0	118.4	131.2	127.4	188.1	221.1	177.8	104.7	
27	34.9	31.7	22.3	35.9	64.7	81.8	60.3	121.9	108.8	160.7	143.7	97.8	80.4	527	55.1	32.3	16.5	52.5	128.6	284.4	21.1	93.5	148.0	218.1	202.0	153.3	109.9	
28	46.5	32.8	28.5	27.6	81.7	105.8	109.0	163.1	138.4	179.5	243.3	146.5	108.6	528	55.4	32.8	14.4	20.0	72.8	94.8	119.9	106.1	121.0	223.6	350.3	134.7	112.2	
29	50.8	38.3	21.8	60.0	121.8	177.6	187.6	182.2	149.1	185.2	261.1	132.6	93.5	529	64.3	28.5	20.2	35.1	75.4	107.7	110.7	76.0	132.5	206.1	152.4	271.7	190.5	98.3
30	54.1	44.2	30.6	14.5	66.0	125.7	93.7	110.4	130.2	175.0	224.5	94.6	97.8	530	51.1	22.1	13.7	25.1	57.3	106.4	61.0	69.2	116.2	144.4	244.5	160.8	89.3	
31	27.4	13.1	13.9	26.8	83.3	134.2	142.4	147.2	148.1	144.8	150.4	164.2	162.0	531	67.1	24.0	14.2	35.5	84.5	93.2	82.2	114.3	177.2	227.1	211.6	98.4		
32	57.9	33.4	23.5	44.6	69.8	90.6	95.5	106.5	142.6	164.2	194.9	157.7	126.6	532	56.4	32.7	10.3	109.9	101.5	103.0	150.7	153.9	186.4	266.4	116.9	110.3		
33	43.2	24.6	25.9	28.5	108.2	104.9	93.0	134.7	140.9	137.4	144.4	150.5	192.5	533	40.6	24.6	10.2	104.1	102.2	104.3	104.3	104.3	104.3	104.3	104.3	104.3		
34	51.4	33.4	34.8	44.0	108.2	104.9	93.0	134.0	147.4	142.9	160.8	173.0	177.2	534	40.6	24.6	13.2	30.7	127.4	206.1	149.7	195.3	235.5	269.9	378.6	77.7	151.5	
35	44.2	22.4	10.7	35.8	66.1	106.5	153.0	153.0	153.0	178.3	266.6	177.7	108.2	535	56.7	26.3	11.7	44.1	27.3	30.0	127.4	149.7	194.2	234.4	207.7	91.5		
36	73.7	22.1	16.4	18.9	71.3	83.0	102.0	127.4	149.8	195.9	198.5	93.2	93.6	532	72.7	37.2	22.9	64.4	105.3	140.8	120.0	156.3	154.4	177.7	210.2	106.3	113.4	
37	53.4	20.0	18.3	18.7	88.1	123.3	135.2	167.1	168.6	222.7	249.7	67.4	106.2	533	57.7	23.1	11.5	44.5	54.4	66.7	90.9	127.6	180.1	157.3	187.7	107.3		
38	64.7	32.7	18.4	22.6	67.1	102.3	110.6	146.8	167.9	203.5	225.2	152.0	105.9	534	40.2	24.7	16.9	38.5	22.5	77.8	117.7	120.6	139.3	160.6	163.3	106.3		
39	47.1	40.0	29.7	27.2	95.4	115.7	155.2	160.6	138.7	172.5	226.4	214.4	118.6	535	55.7	22.3	17.9	37.6	21.0	36.2	121.3	142.1	114.1	152.3	277.5	29.8	131.1	
40	39.2	25.0	11.8	32.2	87.1	108.1	134.5	153.7	166.9	179.2	241.0	137.9	103.0	536	30.6	16.8	12.0	18.7	77.4	118.6	108.9	163.4	171.4	223.8	214.8	108.0		
41	45.3	30.0	14.1	20.7	61.7	119.1	101.3	104.3	105.9	162.4	171.0	170.1	97.7	537	47.1	26.7	11.2	17.7	100.9	148.7	100.4	98.4	143.6	20				

GATUN DOWNSTREAM MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
101	45.2	28.4	14.8	13.1	57.5	89.9	81.4	123.6	263.6	210.3	111.0	93.3	601	51.4	26.0	16.9	33.9	66.1	67.9	77.8	119.0	135.3	154.5	167.0	92.4	84.0	
102	54.1	28.1	17.7	20.7	70.8	69.8	115.6	130.3	159.7	215.1	146.6	237.4	105.5	602	49.3	34.8	27.8	42.4	109.2	144.6	167.3	181.8	223.5	248.2	163.8	193.5	132.2
103	148.8	37.8	18.4	19.1	64.8	150.4	115.2	144.6	151.1	241.4	189.6	156.6	119.8	603	78.7	40.8	29.4	39.3	116.8	131.4	148.8	159.4	140.0	233.2	184.0	92.5	116.2
104	45.6	25.3	16.1	23.3	61.5	119.5	111.4	96.3	107.0	196.5	195.3	185.9	98.6	604	30.5	21.9	16.3	23.9	70.9	142.5	117.0	134.0	162.3	169.4	197.2	85.0	97.6
105	59.5	27.5	24.1	42.5	90.2	188.1	112.6	155.8	182.4	256.3	304.5	129.3	131.3	605	30.4	16.0	12.6	15.8	57.9	89.8	156.5	154.8	140.9	201.1	188.5	115.3	98.3
106	34.3	22.7	20.0	21.8	71.5	142.6	140.7	155.6	171.7	160.8	227.5	134.8	108.7	607	34.0	19.0	22.9	19.9	78.9	107.7	145.7	140.6	157.1	174.5	175.1	110.5	98.8
107	42.0	36.5	29.8	25.2	107.2	144.7	166.6	175.8	147.1	148.7	115.5	140.5	106.6	608	46.9	21.2	20.1	23.4	59.9	71.1	105.0	123.0	158.6	192.3	165.6	183.4	97.5
108	48.9	27.9	15.2	12.1	47.8	53.9	34.5	67.5	164.6	201.7	279.1	303.4	104.7	609	79.2	37.1	45.2	20.7	90.1	142.9	163.6	191.8	160.2	154.8	188.6	187.4	121.8
109	85.0	34.4	20.3	47.8	92.7	149.5	139.0	129.4	132.1	166.0	145.9	55.7	99.8	609	28.1	28.1	87.9	129.6	91.4	140.5	142.9	166.2	283.0	217.2	117.0		
110	29.3	18.7	12.7	15.5	62.6	70.1	113.7	137.3	124.5	175.0	180.0	148.0	90.6	610	52.1	28.1	31.7	66.3	105.0	101.5	72.8	58.3	127.5	171.3	182.1	87.4	91.3
111	29.8	21.8	24.7	12.1	87.9	104.4	160.4	169.4	161.7	204.5	208.1	195.7	124.2	611	52.9	39.3	31.7	66.3	105.0	101.5	72.8	58.3	127.5	171.3	182.1	87.4	91.3
112	72.0	16.8	27.3	32.4	77.0	118.8	94.2	126.7	139.1	196.2	310.5	270.2	125.1	612	29.0	10.4	6.9	8.5	60.3	144.6	135.4	179.1	211.6	224.5	187.3	106.9	108.7
113	68.2	33.0	19.2	32.7	83.2	93.0	91.4	113.7	160.9	197.3	140.7	89.3	93.6	613	69.9	34.9	31.4	35.9	70.8	90.2	85.7	85.8	90.5	136.1	169.4	107.9	84.0
114	40.7	34.8	35.4	68.5	124.1	152.8	119.9	127.1	92.7	155.4	146.4	145.0	103.6	614	38.4	21.4	11.5	33.4	87.8	90.3	96.2	114.3	143.3	127.2	185.6	265.6	101.3
115	103.0	59.4	27.2	33.9	93.5	127.5	87.1	111.7	130.9	176.7	153.4	80.8	98.8	615	259.2	45.0	28.0	88.6	112.5	123.4	126.9	145.2	170.6	214.4	221.0	141.9	
116	77.3	24.4	12.2	9.5	61.9	79.6	87.8	141.6	168.8	203.5	220.1	180.7	105.7	616	57.9	29.2	22.5	19.3	77.6	103.2	116.5	168.6	198.0	204.1	193.0	105.6	
117	80.4	32.5	18.1	32.5	74.6	131.9	102.6	128.6	199.2	235.2	279.4	167.3	123.5	617	54.2	30.3	17.1	21.1	73.5	125.2	152.5	166.9	190.9	119.0	162.9	117.7	
118	54.1	27.1	18.3	45.4	100.3	115.6	136.2	132.0	165.1	250.9	262.2	170.4	123.1	618	131.4	51.1	42.4	30.1	74.9	59.5	78.7	147.8	130.6	241.7	382.6	93.9	115.1
119	67.2	27.2	24.3	47.8	96.3	89.9	122.5	150.5	179.4	165.6	168.5	146.4	107.1	619	45.9	30.3	22.6	15.9	68.6	94.6	98.2	97.8	109.6	234.2	139.0	62.1	84.9
120	64.2	34.2	17.5	22.7	115.3	107.6	91.6	138.6	144.0	154.8	145.9	145.2	92.1	620	24.8	16.2	10.6	18.1	90.5	137.3	131.0	154.4	168.4	228.8	183.7	94.6	104.9
121	35.1	22.9	14.7	20.3	68.5	108.7	109.5	172.1	188.6	256.9	320.1	172.7	124.2	621	52.8	26.7	23.9	19.9	75.2	167.7	156.7	185.7	174.3	197.3	173.8	125.0	115.3
122	35.1	26.9	15.9	16.2	79.7	117.7	109.3	126.9	169.4	191.9	218.8	250.3	113.2	622	76.9	39.2	25.2	43.0	77.0	173.2	157.4	178.1	172.5	217.3	163.2	187.0	122.0
123	92.6	42.8	37.5	67.3	94.5	87.0	93.3	119.8	96.1	148.8	228.9	222.3	10.9	623	87.6	39.8	19.9	40.7	99	148.5	103.1	116.5	145.6	205.7	212.4	89.1	109.0
124	83.8	35.3	20.4	27.9	77.7	107.0	108.5	140.1	138.3	213.7	178.8	69.0	100.0	624	40.4	36.6	20.4	19.7	88.1	108.0	151.1	183.2	110.2	110.0	118.0		
125	48.1	25.5	23.4	20.1	101.4	95.3	43.7	63.5	114.2	166.5	238.4	150.9	90.9	625	44.1	24.5	18.9	24.7	119.1	155.1	166.2	190.6	180.6	210.0	131.0	118.0	
126	67.1	41.5	31.4	47.6	118.7	121.1	114.8	153.7	165.9	153.7	203.7	161.0	121.2	626	36.9	27.4	20.7	23.5	74.7	132.8	120.0	148.7	232.2	240.7	223.4	122.4	
127	39.0	16.8	12.3	17.4	74.0	83.4	82.2	124.7	126.8	194.9	190.8	120.6	86.8	627	103.1	39.0	19.1	25.1	80.1	67.1	67.4	124.6	166.1	217.8	191.0	104.6	
128	60.5	40.0	31.8	50.0	103.4	118.4	103.2	99.4	122.6	148.4	201.0	150.2	102.4	628	47.1	27.1	18.7	24.6	85.0	101.1	128.1	127.4	109.9	193.4	181.2	201.2	
129	105.8	54.7	30.8	65.3	106.3	113.7	100.2	152.0	168.5	198.7	150.2	111.4	111.4	629	47.6	37.7	19.5	100.4	57.4	88.0	91.5	143.2	149.3	210.6	269.2	109.4	
130	37.0	32.8	30.8	40.7	160.0	142.7	176.4	198.2	196.7	210.8	196.3	145.9	131.2	630	77.3	43.8	27.7	29.4	29.4	112.6	143.6	139.6	142.3	139.6	205.7	211.6	
131	67.8	41.3	18.6	24.3	16.2	113.0	105.8	130.6	158.5	241.6	276.4	120.5	107.1	631	40.8	26.7	14.6	19.1	60.6	96.3	115.3	133.6	136.8	205.0	212.1		
132	38.4	21.1	9.9	21.1	71.4	101.8	115.3	159.9	172.2	208.8	239.0	120.8	106.6	632	83.9	40.8	26.6	24.5	64.4	88.1	72.5	115.7	147.7	205.6	212.0		
133	71.8	51.5	30.5	36.5	76.8	102.6	137.6	137.9	167.9	226.2	247.5	154.5	121.3	633	78.9	38.4	23.6	22.9	99	134.9	126.7	153.1	136.1	215.6	215.8		
134	84.8	36.5	40.1	50.7	81.2	138.6	136.4	146.8	142.7	204.2	212.1	121.5	104.5	634	52.3	33.0	18.3	17.8	68.9	153.8	157.7	150.1	179.1	180.8	110.7		
135	56.5	27.7	22.7	18.6	122.7	126.6	92.7	116.6	167.5	192.2	183.3	110.8	96.1	635	41.4	24.4	17.1	27.7	62.2	135.9	133.3	162.4	235.6	236.6	126.7		
136	43.4	18.5	13.7	20.8	73.4	92.7	116.6	115.5	167.5	192.2	183.3	110.8	95.1	636	41.4	24.4	17.1	27.7	62.2	135.9	133.3	162.4	235.6	236.6	126.7		
137	33.8	28.2	17.4	20.0	79.3	119.1	146.2	134.8	166.7	230.7	216.3	162.0	110.1	637	46.3	32.0	19.0	27.8	90.2	144.6	141.8	146.3	212.3				
138	33.0	28.3	15.9	29.7	98.0	100.5	106.5	99.0	108.0	171.1	168.6	142.5	92.3	638	37.6	20.8	13.9	31.1	73.0	130.7	134.0	164.6	205.7	210.1			
139	33.0	28.3	15.9	29.7	83.0	97.1	143.6	169.9	189.2	217.1	224.7	91.6	105.8	639	44.0	25.3	15.7	30.2	70.2	125.5	126.8	130.0	137.3	145.9	211.1		
140	45.3	21.7	31.6	33.7	75.1	74.1	97.3	108.7	113.2	222.7	236.7	71.6	95.4	640	46.0	20.8	13.9	27.7	73.0	121.6	134.9	137.3	145.9	211.1			
141	41.8	19.0	18.4	32.4	86.4	112.8	159.4	188.8	190.4	207.7	232.7	121.5	117.6	641	34.0	20.6	11.9	21.1	71.1	108.6	180.3	109.9	125.8	166.7	171.1		
142	30.8	12.9	17.5	41.5	130.0	135.0	160.5	165.0	175.2	225.4	149.5	131.0	114.5	642	60.5	29											

GATUN DOWNSTREAM MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
201	45.6	41.4	25.3	27.1	92.3	99.9	61.6	92.7	124.2	152.5	224.3	113.0	91.7	701	95.3	53.7	54.3	45.1	74.5	94.3	137.6	161.7	159.1	258.2	243.1	66.7	120.3		
202	65.8	45.6	33.0	47.6	81.2	91.0	117.6	134.3	144.5	186.7	166.6	114.3	102.4	702	35.5	31.1	15.5	20.4	72.3	92.1	122.5	114.8	95.6	129.9	233.8	169.4	94.4		
203	37.3	32.6	19.3	19.8	90.8	109.4	92.8	110.6	157.9	200.1	193.9	201.9	105.5	703	61.2	40.0	30.8	29.6	76.9	114.0	110.2	183.3	144.6	198.9	220.1	188.5	116.5		
204	67.8	39.3	28.6	13.3	67.1	135.7	147.0	148.9	172.7	216.2	181.6	71.9	107.5	704	40.5	23.6	15.0	16.5	80.0	142.5	96.3	79.3	128.6	172.6	296.2	148.7	103.3		
205	32.4	28.3	17.2	53.3	89.6	98.5	114.3	136.5	177.8	226.6	143.8	49.7	99.0	705	49.6	32.9	18.9	12.9	67.0	94.5	79.5	133.7	132.1	214.2	300.1	195.8	110.9		
206	25.3	15.0	14.9	47.5	112.7	125.7	74.2	97.1	128.7	163.1	193.9	91.0	90.8	706	79.1	32.1	18.1	35.5	85.0	110.2	112.0	112.6	132.5	157.2	246.1	122.8	103.6		
207	55.4	21.6	24.9	47.9	92.5	108.6	159.7	203.5	168.8	285.7	366.2	245.1	148.3	707	40.7	31.3	20.0	19.9	70.9	125.1	127.2	137.4	173.6	207.1	239.7	175.9	114.1		
208	188.8	35.4	21.5	24.2	62.5	73.8	49.7	62.5	100.1	159.9	176.2	142.7	91.4	709	91.7	36.4	21.0	33.4	105.5	147.5	151.4	114.0	99.0	129.1	151.4	158.7	103.3		
209	72.2	44.2	41.7	39.7	88.4	177.2	169.5	165.2	140.5	160.7	200.8	116.6	118.1	710	108.8	47.0	31.6	16.3	98.1	89.7	121.3	120.0	201.2	142.1	232.6	106.4			
210	28.8	25.5	20.2	48.0	139.6	132.1	122.9	121.5	125.8	174.5	150.2	218.6	109.0	711	104.7	40.2	25.2	81.2	198.5	130.1	175.7	205.3	212.3	317.6	168.4	107.8	147.3		
211	61.1	35.1	25.2	41.4	80.6	120.1	156.6	172.9	148.8	208.2	205.2	290.0	128.8	711	71.2	42.3	19.8	11.6	56.7	73.6	79.2	103.1	138.3	213.0	272.1	177.9	107.9		
212	112.3	46.0	30.9	30.7	76.3	114.0	75.8	93.1	117.6	129.1	204.3	174.6	96.5	712	42.3	19.8	11.6	10.0	39.1	64.1	94.4	94.6	79.6	118.2	130.1	28.8	213.5	169.9	103.3
213	61.5	34.7	17.4	36.5	99.1	169.6	150.5	130.2	152.3	190.4	219.5	164.6	118.9	713	75.3	35.4	33.4	61.1	94.0	90.0	94.1	91.2	164.0	187.3	211.1	158.7	107.2		
214	39.5	28.9	21.4	28.4	101.6	101.7	161.1	144.9	117.2	227.8	305.7	164.6	116.5	714	95.5	51.0	33.4	35.6	74.5	90.0	94.1	91.2	164.0	187.3	211.1	158.7	107.2		
215	60.3	33.2	33.1	55.4	68.9	97.6	113.6	153.4	190.5	248.2	190.4	92.8	111.5	715	71.5	31.5	23.6	61.8	109.8	107.2	124.4	139.3	197.9	242.8	246.0	159.4	126.3		
216	44.5	37.0	20.5	23.3	34.0	83.3	153.8	144.4	167.8	139.2	226.6	210.4	107.9	114.6	716	51.6	27.1	20.1	44.6	80.0	153.8	110.5	130.6	199.6	215.1	88.0	88.3		
217	55.0	28.2	22.7	24.8	72.4	97.2	142.0	196.2	202.5	283.3	267.8	119.1	125.9	717	56.7	34.8	34.3	41.7	108.3	108.6	110.4	141.7	158.4	158.8	208.3	157.2	106.8		
218	53.7	30.3	17.6	23.2	77.1	129.0	134.4	138.1	106.8	187.8	263.8	63.3	102.1	718	57.2	37.7	21.0	33.1	92.6	12.2	81.2	131.8	178.8	206.2	210.7	257.2	123.1		
219	41.7	17.4	18.5	14.5	75.9	110.5	112.2	141.1	132.0	155.4	129.0	74.8	85.3	719	109.1	29.9	20.1	32.5	101.9	163.6	167.3	153.8	137.0	188.6	276.4	169.3	129.1		
220	44.6	30.5	18.0	22.9	69.5	109.4	108.7	137.4	144.6	190.9	165.1	114.4	96.3	720	63.3	32.1	31.1	40.2	102.1	96.7	132.9	143.5	136.4	202.0	185.0	168.6	115.2		
221	33.7	29.2	16.7	27.1	66.7	103.7	122.0	102.4	135.8	167.2	180.8	59.5	90.2	721	52.0	27.1	17.8	50.4	103.1	171.7	183.1	190.4	161.9	210.1	207.0	106.9			
222	30.9	32.0	18.8	18.6	77.8	105.3	127.8	158.9	154.2	214.8	218.4	109.7	105.5	722	44.3	27.0	22.7	35.0	78.8	69.2	94.2	150.5	107.0	181.6	133.2	181.5	93.8		
223	95.5	44.4	25.4	42.7	92.4	156.3	137.0	127.9	127.8	212.4	266.2	166.0	124.5	723	39.1	28.1	20.2	27.2	86.9	95.5	79.3	69.8	100.6	176.2	123.9	111.7	87.4		
224	96.2	40.5	31.5	32.9	144.4	183.1	163.7	165.0	164.6	159.5	137.7	123.7	106.5	724	51.1	23.8	17.8	32.1	64.2	98.4	90.7	133.9	102.6	148.4	257.7	133.8	96.3		
225	57.7	34.1	20.4	34.5	107.5	147.0	141.1	170.4	144.7	159.5	123.1	109.0	109.0	725	40.8	27.5	18.7	35.7	100.2	116.4	133.3	150.8	139.9	259.1	264.6	127.2	117.8		
226	46.7	30.5	18.2	23.5	108.3	95.1	51.1	36.4	92.6	141.6	194.4	195.5	86.2	726	40.8	27.5	18.7	31.1	87.1	119.9	162.3	163.6	247.8	228.7	191.2	119.7			
227	63.0	17.3	13.6	15.5	66.2	89.1	107.0	140.6	133.8	240.0	241.8	180.3	109.0	727	64.3	33.7	31.4	34.4	76.1	108.3	109.4	104.9	199.8	299.3	100.7	105.9			
228	63.7	34.2	21.3	24.7	96.9	148.1	142.7	159.0	166.6	169.1	139.8	129.1	92.4	728	59.5	46.9	43.6	57.3	93.0	119.7	94.4	95.5	115.7	203.3	212.0	119.9	106.2		
229	64.0	26.2	18.5	28.4	59.0	80.5	134.7	169.7	126.5	151.4	204.9	154.8	100.5	729	59.0	38.2	30.7	40.2	106.8	103.3	83.4	78.4	126.8	172.5	204.6	110.8	96.2		
230	49.8	27.8	22.2	55.4	113.7	102.8	111.6	110.4	117.1	182.0	195.3	63.0	95.9	730	44.9	36.6	18.6	11.2	48.3	66.9	70.7	105.8	155.1	191.6	106.3	96.7			
231	26.9	21.2	16.9	29.9	90.3	99.4	109.0	139.9	137.8	155.3	171.6	143.2	94.7	731	35.6	21.8	14.4	26.1	88.5	98.5	145.3	162.5	172.9	208.4	212.5	109.4			
232	62.0	45.7	21.9	17.5	94.2	97.0	82.4	78.8	111.2	166.0	166.0	120.1	125.4	732	46.2	33.7	31.7	42.6	87.0	128.0	96.6	120.7	125.9	205.2	244.5	109.4			
233	119.8	41.0	28.3	16.9	75.2	142.6	151.9	136.5	103.0	210.8	231.1	170.9	121.5	90.4	733	36.1	20.9	30.5	85.5	103.8	104.9	104.8	104.9	104.9	104.9	104.9			
234	52.8	14.3	14.3	18.7	63.3	110.7	170.8	178.9	217.4	228.0	94.0	107.2	734	65.3	24.6	24.6	19.4	19.2	85.4	140.9	140.4	199.8	299.3	100.7	105.9				
235	26.6	14.3	14.3	18.7	123.6	134.2	147.1	151.7	184.6	182.8	208.3	166.0	101.1	735	63.5	29.2	16.3	17.2	58.8	84.4	144.1	168.9	256.5	213.7	154.2	104.7			
236	37.0	15.4	17.2	24.5	25.9	98.2	120.0	123.5	168.0	163.6	163.6	72.8	99.8	736	33.1	29.2	16.3	17.2	58.8	84.4	144.1	168.9	256.5	213.7	154.2	104.7			
237	27.1	23.2	24.2	23.4	67.6	112.5	169.5	165.3	201.9	217.1	113.9	112.9	84.3	737	34.8	24.4	24.2	34.4	78.8	116.4	116.4	116.4	116.4	116.4	116.4	116.4			
238	45.1	28.7	16.0	15.4	75.1	63.6	74.3	97.7	119.3	163.9	148.1	61.7	75.7	738	48.7	26.9	18.6	22.2	78.8	116.4	121.6	116.4	121.6	121.6	121.6	121.6			
239	45.1	28.7	16.0	15.4	75.1	63.6	95.9	96.7	127.6	166.2	136.5	149.0	148.1	739	34.8	26.9	18.6	22.2	78.8	116.4	121.6	116.4	121.6	121.6	121.6	121.6			
240	54.7	34.2	16.1	34.5	102.7	105.4	156.2	182.6	192.3	181.6	204.0	114.2	114.2	740	36.0	4.5	4.5	4.5	78.8	116.4	121.6	116.4	121.6	121.6	121.6	121.6			
241	47.1	31.5	18.1	26.0	87.6	87.6	77.1	95.7	149.7	136.5	204.7	176.9	109.3	741	52.5	34.9	34.9	34.9											

GATUN DOWNSTREAM MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
301	165.0	44.7	29.5	25.2	77.8	126.5	131.7	161.6	175.0	222.7	233.5	215.7	134.1	801	70.6	32.5	17.7	42.6	113.1	120.2	85.6	102.2	114.7	239.1	313.9	182.1	119.5	
302	60.6	50.3	46.9	26.3	104.6	130.1	137.1	138.5	118.6	165.0	206.7	142.5	110.6	802	155.5	48.7	46.1	72.4	132.3	126.2	116.5	149.1	163.2	234.0	153.4	57.7	121.3	
303	49.5	31.0	24.2	149.5	119.6	129.7	145.1	144.7	172.9	233.6	193.1	67.2	121.7	803	32.7	26.4	15.6	24.8	95.0	148.4	157.2	103.8	135.7	169.5	123.6	111.2	95.3	
304	43.6	31.2	24.8	44.7	96.6	93.2	108.6	57.6	126.0	160.4	235.7	97.5	94.8	804	43.6	27.1	18.7	41.1	111.2	125.9	138.6	146.8	173.3	292.5	224.3	139.6	123.6	
305	45.6	21.4	23.8	13.0	58.4	71.6	75.6	139.1	170.7	226.9	239.2	79.6	97.1	805	43.4	26.1	21.8	32.2	94.8	134.5	142.3	164.3	183.7	198.3	341.9	268.0	137.6	
306	40.9	12.3	14.3	37.2	75.4	96.5	121.9	118.9	144.4	202.4	235.1	158.3	104.8	806	51.3	37.3	26.6	39.0	77.5	80.2	120.9	140.6	177.8	206.3	172.1	100.6		
307	81.3	28.5	21.3	35.3	75.2	78.2	87.5	170.1	182.1	188.1	370.9	189.4	125.6	807	218.0	50.6	34.4	54.5	84.2	135.1	150.3	147.9	117.1	189.5	234.0	189.4	133.8	
308	70.0	38.8	29.9	28.6	100.9	153.8	166.2	184.3	201.1	316.2	213.9	211.2	142.9	808	82.2	39.0	20.2	30.5	50.6	84.7	149.2	127.2	181.6	154.6	228.4	103.3	102.5	
309	122.1	55.4	19.0	25.3	55.8	101.4	122.4	126.3	175.5	192.2	403.0	278.8	139.8	809	36.4	19.2	11.7	16.9	95.1	142.4	151.5	172.2	130.4	182.6	106.9	164.8	102.5	
310	82.6	42.6	26.0	112.2	107.3	122.1	150.7	182.0	175.3	190.0	171.5	120.4	123.6	810	84.8	33.0	20.4	37.2	72.6	107.5	123.3	156.5	159.7	231.6	165.7	142.5	111.2	
311	308.0	200.0	132.2	13.0	75.3	110.7	135.0	130.9	165.5	182.5	163.6	260.3	110.0	811	62.7	27.9	14.6	21.4	133.8	155.5	127.5	199.9	184.5	221.5	242.4	184.7	131.4	
312	87.3	39.9	38.2	37.0	64.8	59.4	82.1	135.1	148.4	189.0	159.4	88.7	94.1	812	53.4	36.3	32.0	63.1	113.8	160.1	190.1	175.9	212.6	273.3	325.0	57.1	139.4	
313	32.9	15.0	12.3	19.6	69.3	130.8	126.8	167.5	173.2	200.4	235.8	61.7	103.8	813	36.2	14.0	13.6	27.0	70.5	136.7	121.7	201.7	209.9	225.6	250.6	132.4	120.0	
314	45.9	34.9	24.6	35.1	14.0	119.3	103.2	122.4	126.3	169.2	137.7	124.4	96.4	814	135.0	42.6	28.0	58.3	125.7	135.7	119.5	122.3	138.0	130.1	169.0	108.2	110.0	
315	57.4	33.2	18.6	26.1	81.3	117.4	88.9	125.7	133.4	234.6	315.6	210.7	120.2	815	62.3	29.4	21.3	40.5	74.6	126.9	111.8	113.1	182.1	217.8	221.2	253.3	119.7	
316	72.5	30.8	25.3	62.9	80.2	114.0	145.8	131.0	97.7	217.2	174.5	87.1	95.6	816	66.8	24.6	11.0	22.2	95.4	118.9	119.2	113.7	120.8	148.4	130.8	118.4	90.9	
317	47.3	20.8	18.9	35.6	14.0	115.4	156.2	171.9	183.4	269.1	308.2	205.5	137.2	817	46.3	25.7	23.9	29.9	102.8	133.2	126.7	159.9	113.0	196.4	260.9	168.7	115.6	
318	37.4	27.4	23.1	20.3	103.6	117.6	130.1	173.9	144.2	253.8	183.2	112.9	112.5	818	64.2	41.5	25.9	23.7	74.6	89.1	90.2	80.5	127.9	191.5	210.6	106.3	93.8	
319	80.2	27.7	17.7	22.1	70.5	107.9	142.9	173.7	148.4	177.3	192.0	68.5	97.0	819	46.6	28.4	21.0	17.0	76.4	96.0	141.1	187.3	186.7	218.9	183.8	174.9	114.8	
320	59.1	29.3	16.1	28.5	90.2	135.3	106.0	156.5	146.2	212.5	179.0	94.2	104.6	820	102.3	33.8	24.0	52.3	73.9	60.1	40.9	80.4	103.9	175.4	144.8	164.9	88.1	
321	57.1	26.2	19.6	39.6	75.8	97.8	79.3	88.5	123.3	161.9	210.6	60.2	86.5	821	71.8	43.5	26.2	58.2	108.9	145.3	107.0	170.8	193.6	158.8	208.0	190.1	131.9	
322	32.9	22.4	14.2	28.6	56.2	140.8	147.0	184.7	174.9	211.2	170.9	110.6	107.9	822	51.0	38.1	24.4	55.3	105.0	151.5	151.8	138.2	139.7	238.7	164.9	111.6	105.5	
323	37.6	23.6	23.7	19.8	70.9	126.3	154.1	177.2	136.4	217.2	142.8	211.1	111.8	823	43.2	24.1	18.3	18.8	101.5	111.0	104.1	127.5	109.6	190.4	97.0	97.0	97.0	
324	45.3	34.7	16.3	15.1	15.1	92.9	92.8	94.7	141.3	142.1	253.9	206.0	157.0	105.0	824	50.2	32.6	26.0	21.2	95.4	128.5	127.5	126.4	206.0	217.3	144.4	103.2	103.2
325	44.3	32.6	22.6	29.4	97.7	185.4	177.7	176.5	145.7	225.2	278.4	196.3	134.3	825	71.3	30.1	19.0	17.1	61.0	89.8	85.9	129.0	102.2	133.8	187.4	112.3	88.2	
326	69.3	26.1	10.7	17.1	79.8	91.8	91.9	122.6	99.6	136.7	121.6	14.6	93.7	826	56.4	19.2	24.1	39.4	118.6	130.5	132.1	125.4	135.0	160.1	181.3	220.4	111.9	
327	47.1	13.3	10.6	19.0	70.0	111.2	101.1	138.9	115.2	171.0	188.2	105.7	91.4	827	48.4	27.0	23.7	52.9	109.9	91.7	124.6	96.3	165.0	161.5	234.9	84.7	101.7	
328	40.7	28.1	14.9	13.0	55.5	59.6	43.6	48.6	124.9	187.7	253.2	135.7	83.7	828	31.6	24.3	14.7	19.9	88.2	145.0	145.0	150.1	160.2	173.0	21.0	154.1	108.1	
329	83.0	38.7	33.6	28.1	88.4	93.8	91.4	115.3	152.4	152.6	193.8	282.9	118.0	829	55.7	35.9	40.4	72.8	94.8	95.0	128.7	171.1	175.6	212.2	157.6	49.7		
330	28.8	17.7	7.7	20.9	84.8	142.3	132.7	138.9	130.6	183.8	141.7	132.7	96.9	830	32.8	24.3	14.5	18.3	18.8	132.7	132.7	109.6	190.4	97.0	97.0	97.0	97.0	
331	66.9	38.9	18.0	56.6	121.0	112.4	81.6	103.2	141.7	149.3	145.4	45.3	90.8	831	43.0	24.9	19.5	24.9	127.1	143.0	151.7	150.4	150.4	237.7	230.0	211.0	109.6	
332	24.7	11.2	10.0	15.4	86.4	105.7	159.2	163.6	136.1	151.9	152.4	121.1	96.7	832	30.6	14.9	9.7	51.9	97.0	112.7	160.4	150.4	150.4	150.4	150.4	150.4	93.0	
333	41.1	20.9	13.4	22.7	137.2	173.5	127.0	151.0	161.5	186.4	215.5	162.7	92.6	833	53.9	32.8	18.1	97.7	98.7	87.7	88.7	109.8	167.9	131.2	132.7	239.1	83.9	
341	107.5	41.2	35.0	111.4	155.7	175.6	119.0	120.0	157.5	180.0	108.7	111.4	114.8	842	26.3	17.5	13.1	24.5	73.0	111.0	140.1	179.5	174.1	210.3	384.4	133.6	103.0	
342	82.1	47.3	22.5	24.0	59.3	93.9	114.6	162.2	175.1	233.3	230.9	167.0	95.5	851	59.5	32.5	30.8	56.7	123.7	123.7	134.3	144.7	107.5	227.1	218.8	108.5		
343	47.1	30.8	21.3	22.2	55.4	77.0	124.0	152.5	209.8	249.3	106.9	106.6	103.3	852	55.6	25.2	12.5	14.8	77.4	106.2	182.8	145.8	172.7	217.7	218.1	124.4	120.5	
344	35.8	15.7	16.2	21.1	69.9	100.9	105.9	159.1	156.1	259.4	137.8	114.0	97.8	853	45.4	27.0	18.8	24.3	84.5	154.6	155.6	49.4	135.2	135.2	152.4	120.2	102.0	
345	85.8	31.2	19.6	26.7	73.5	81.6	96.4	135.2	118.6	164.3	209.4	146.5	95.8	854	46.4	23.3	21.7	31.1	140.4	159.5	127.5	133.6	133.6	133.6	133.6	133.6		
346	33.6	29.0	21.5	30.0	84.0	155.5	161.1	181.8	185.2	169.2	217.9	202.7	57.3	855	40.7	17.6	14.0	19.4	62.9	127.5	103.3	113.6	133.6	133.6	133.6	111.8	111.8	
347	25.2	27.7	24.6	24.6	142.6	147.3	124.6	140.3	124.6	140.3	205.0	130.1	134.3	856	45.5	17.4	12.1	16.4	92.4	152.5	152.5	152.5	152.5	152.5	152.5	152.5	152.5	
348	123.8	38.5	24.2																									

GATUN DOWNSTREAM MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
401	66.9	36.7	16.2	28.6	124.3	145.3	107.2	145.3	154.8	203.9	339.0	140.5	125.7	901	32.3	19.6	20.4	42.2	66.6	73.4	102.2	133.7	132.0	182.1	229.6	220.4	104.5
402	49.4	29.0	18.3	24.2	85.2	129.6	92.1	115.8	123.7	217.4	176.5	143.8	100.4	902	91.7	34.4	22.7	20.3	65.6	96.1	104.5	84.7	88.7	189.6	219.1	153.9	97.6
403	47.7	23.8	14.3	17.0	84.7	101.9	158.4	177.5	171.3	212.7	170.0	90.1	105.8	903	67.6	31.6	21.2	29.8	78.4	81.2	87.2	123.0	144.0	250.5	182.3	72.0	97.4
404	30.6	28.4	18.6	42.2	94.8	116.4	149.3	161.4	130.3	175.2	164.0	47.4	96.6	904	63.0	29.0	15.7	14.2	64.0	86.0	129.9	164.7	195.1	204.7	225.5	68.0	105.0
405	51.5	40.8	22.4	22.7	90.8	174.7	165.8	192.5	142.3	134.5	151.5	120.8	109.2	905	44.6	38.5	28.4	21.4	86.6	116.4	125.0	187.1	162.3	189.3	196.7	118.1	109.5
406	56.1	27.3	14.0	27.5	58.0	83.1	86.7	104.1	119.4	151.6	129.8	150.0	84.0	906	47.2	30.8	24.4	18.0	71.4	87.4	127.8	122.8	146.1	177.9	137.6	90.2	91.8
407	74.9	31.8	24.9	18.1	82.6	87.7	115.9	137.4	177.8	209.3	253.7	159.1	114.4	907	36.6	28.4	17.7	63.1	116.0	130.8	134.2	125.4	123.9	140.1	232.8	139.0	107.3
408	38.1	26.3	27.4	95.1	103.4	101.3	102.9	132.0	163.6	200.4	223.0	88.3	90.8	78.1	38.7	25.4	55.8	99.6	90.1	92.0	100.3	85.6	197.3	295.6	120.6	106.6	
409	57.9	41.6	20.1	14.7	66.5	61.8	90.6	146.1	124.6	216.3	286.4	216.9	112.0	909	41.8	30.7	33.1	50.7	127.0	93.6	52.4	74.4	115.3	186.3	169.1	71.7	87.2
410	56.2	31.1	22.9	23.0	101.9	134.2	93.2	106.4	146.3	208.7	225.8	96.3	103.8	910	47.2	18.1	13.0	19.2	68.8	86.2	71.8	67.9	128.6	210.2	182.4	169.0	90.2
411	48.5	23.1	11.6	16.4	58.1	83.9	71.0	86.8	158.3	252.9	228.8	70.4	109.8	911	39.3	28.7	15.6	32.2	85.7	147.3	138.2	170.5	168.1	160.3	192.8	265.5	120.4
412	94.3	41.3	33.0	32.2	69.8	112.6	92.2	87.2	122.5	195.3	164.8	110.7	96.3	912	199.7	49.9	27.3	30.9	87.7	135.3	130.4	155.2	129.7	209.9	291.3	95.0	128.5
413	27.7	16.4	10.9	30.0	112.1	157.5	117.0	99.3	123.4	157.6	180.5	235.8	105.7	913	30.3	18.8	9.3	22.8	99.3	92.0	130.2	173.9	185.9	192.7	198.3	158.3	109.3
414	73.1	29.7	21.0	16.9	69.4	100.0	69.4	154.1	178.1	188.1	164.6	196.9	105.1	914	47.1	36.5	27.1	18.5	67.1	110.8	128.5	152.6	132.1	189.9	156.5	61.7	94.0
415	68.1	31.6	15.9	18.9	100.1	109.0	126.4	111.6	132.1	215.2	222.6	102.8	104.5	915	34.1	16.4	12.3	14.4	62.2	126.6	163.9	172.8	208.4	240.5	239.9	124.6	124.6
416	25.7	20.9	17.8	16.2	72.4	103.8	114.5	115.9	138.6	199.2	272.3	247.1	112.1	916	58.1	26.1	20.5	19.2	60.1	87.7	111.0	108.9	126.6	124.3	139.1	85.2	80.6
417	133.8	65.8	52.4	61.2	186.6	188.1	130.3	135.3	142.4	209.6	265.3	164.7	144.6	917	61.1	42.3	35.9	25.8	61.5	84.7	74.7	103.5	164.5	203.6	168.1	133.6	96.6
418	70.3	48.4	41.9	41.3	148.9	125.6	97.5	131.5	146.6	216.0	202.4	157.7	71.7	107.0	918	36.5	22.7	16.3	106.0	151.0	122.9	121.0	167.0	207.3	188.7	76.9	102.5
419	48.0	24.3	14.5	30.6	87.8	126.5	135.4	178.2	161.6	134.3	175.3	153.2	104.1	919	35.7	31.4	19.0	33.1	93.4	92.3	134.7	148.2	133.4	20.2	120.2	175.5	97.4
420	59.0	33.7	20.8	41.9	92.8	98.8	60.6	71.7	134.5	188.1	224.4	105.5	94.3	920	42.1	27.3	19.1	29.1	71.1	102.1	118.5	166.1	191.3	269.7	416.2	238.3	142.6
421	50.1	28.5	13.5	18.3	76.8	96.0	110.3	157.6	153.3	165.5	201.8	141.2	102.9	921	83.3	55.8	49.2	30.0	106.6	123.3	164.4	164.0	217.7	237.3	262.7	137.9	107.4
422	83.4	40.5	19.7	30.9	99.8	143.7	105.2	108.9	147.1	203.9	194.3	148.6	110.5	922	72.8	50.9	30.0	22.8	83.2	124.9	112.6	109.3	188.6	165.6	91.3	97.1	
423	63.8	26.2	20.4	41.5	81.1	153.2	162.6	185.8	151.3	196.2	176.8	150.5	117.5	923	55.7	25.3	22.8	18.6	118.7	120.7	61.1	97.2	135.9	190.2	210.6	121.8	99.7
424	50.2	31.6	20.5	33.9	64.4	97.4	134.9	131.4	154.4	174.6	207.2	170.4	106.5	924	68.1	34.3	19.7	13.3	60.2	105.8	113.3	161.6	134.1	236.8	243.6	87.0	107.1
425	53.7	27.8	18.0	26.0	112.9	91.1	130.5	107.2	153.1	202.7	230.4	76.9	96.5	925	35.5	24.3	15.5	26.2	101.4	142.1	98.8	120.4	132.8	200.7	220.0	156.0	
426	41.1	32.9	27.4	50.0	95.7	139.0	178.4	166.3	174.3	209.1	211.3	102.1	118.9	926	47.7	33.3	27.1	20.5	65.7	108.7	123.0	134.0	150.7	206.8	159.2	148.7	102.1
427	48.3	22.3	15.1	14.3	87.8	76.9	70.4	60.8	104.2	138.1	189.6	153.7	81.8	927	76.1	33.4	32.6	57.7	122.4	105.7	113.0	118.2	146.0	180.9	209.4	131.6	110.6
428	97.6	40.5	24.4	112.2	114.6	136.4	131.3	173.1	160.0	217.1	214.3	125.7	125.2	928	60.5	23.7	17.3	42.5	79.1	116.5	99.9	115.8	163.2	182.0	174.5	115.1	99.2
429	48.7	29.9	22.4	66.6	76.3	112.1	98.3	134.2	198.9	197.4	174.3	133.4	107.7	929	49.4	39.3	18.4	44.1	67.5	118.4	85.1	126.0	170.6	241.2	217.1	107.4	
430	43.5	31.1	21.9	50.7	12.0	168.0	142.3	152.5	163.9	186.2	204.7	135.0	94.4	930	95.1	41.0	32.5	97.6	15.8	131.0	130.4	134.3	187.8	190.0	104.5		
431	54.7	29.5	16.8	13.1	80.0	85.5	95.6	140.0	137.9	110.8	166.8	139.7	107.0	101.8	931	55.7	23.3	19.7	31.1	72.8	116.1	98.4	136.7	139.0	182.3	200.7	163.8
432	74.1	40.3	25.7	16.7	72.5	131.9	111.7	187.5	170.7	171.6	211.4	121.4	111.0	932	94.0	40.2	17.5	57.1	94.2	140.2	142.0	121.0	142.4	144.2	193.1	190.1	97.1
433	49.3	29.3	16.9	23.6	87.9	79.6	84.7	83.7	130.8	173.7	190.9	199.5	197.5	109.5	933	88.6	46.9	41.8	87.4	122.6	110.4	115.9	135.9	144.2	191.1	101.1	98.1
434	40.9	27.3	22.8	49.1	84.6	94.1	47.9	73.4	95.8	187.7	298.0	298.0	359.3	131.2	934	50.5	21.1	22.6	32.0	118.8	103.0	124.5	126.0	179.7	184.8	73.8	101.7
435	70.5	38.4	28.5	40.7	124.8	134.7	113.5	173.7	213.9	273.7	273.7	162.1	103.4	935	94.4	33.1	22.6	32.5	104.9	187.4	150.5	165.5	168.2	209.1	210.8	101.8	
436	40.5	17.3	7.6	10.6	42.4	77.7	89.4	145.3	156.7	159.1	223.3	263.0	108.8	105.8	936	60.6	25.6	18.0	25.9	84.4	158.0	176.3	173.6	160.1	184.2	188.4	117.8
437	44.9	34.2	22.5	54.0	95.2	88.7	99.1	103.2	128.8	212.5	206.3	105.5	114.5	937	155.9	44.4	34.5	36.6	144.5	181.1	197.1	148.0	242.5	254.5	187.3	143.2	
438	46.5	23.5	14.2	14.6	84.3	107.3	89.0	111.0	125.1	196.4	120.4	134.4	88.9	946	89.8	40.8	23.5	46.0	69.6	119.1	117.8	102.6	183.8	204.5	110.9	124.5	
439	122.4	64.7	34.0	27.0	128.0	127.7	147.8	148.6	229.1	249.5	204.5	155.1	131.1	947	94.9	50.6	31.7	26.8	61.5	93.9	149.7	149.7	182.8	186.0	159.6	187.3	
440	71.1	34.1	20.4	37.0	69.6	100.8	107.5	136.5	186.8	267.6	223.3	123.5	114.9	948	25.6	9.7	9.7	14.5	46.5	94.3	149.7	128.2	182.8	177.3	77.8		
441	65.2	24.2	24.2	23.6	64.7	108.6	120.4	108.6	152.8	152.8	152.0	157.0	124.7	949	56.7												

GATUN TOTAL MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann			
1	153.9	82.5	57.1	46.3	80.5	76.8	120.9	133.9	196.3	233.8	393.2	284.7	155.0	501	68.8	45.4	34.5	138.0	266.7	197.4	218.5	211.4	212.4	395.4	547.1	350.6	223.9			
2	69.7	50.4	45.2	33.5	90.2	112.9	132.9	180.4	225.2	262.2	318.5	340.4	156.5	502	181.4	101.0	64.6	70.5	174.8	208.2	231.1	272.3	182.1	318.1	375.2	297.9	206.6			
3	204.8	91.6	66.1	369.8	309.1	211.2	175.1	152.6	174.6	278.3	318.8	343.7	224.6	503	95.2	44.6	33.7	54.4	132.7	276.6	240.1	186.2	227.1	209.8	327.0	267.9	174.6			
4	109.9	80.2	59.4	119.3	133.0	202.3	236.5	258.9	273.0	323.5	418.1	210.6	202.9	504	126.7	96.0	68.0	81.5	163.0	210.7	173.9	222.3	218.1	296.9	273.5	301.5	186.0			
5	128.5	69.3	68.9	71.0	199.2	283.3	287.1	316.4	240.5	264.1	331.1	161.6	201.9	505	249.3	76.9	48.9	125.0	248.9	171.1	157.4	251.9	251.1	225.5	301.2	368.1	189.5			
6	101.7	79.1	60.8	100.0	151.1	176.2	120.6	182.2	204.8	235.9	396.6	177.5	165.7	506	77.3	35.4	22.2	36.2	162.8	187.1	188.4	232.5	263.3	365.0	378.5	268.5	181.9			
7	73.3	49.6	34.8	56.4	157.9	174.9	104.3	146.2	242.5	301.0	520.5	276.9	178.2	507	333.1	121.5	47.3	112.7	132.1	189.0	219.0	260.7	280.7	397.1	286.3	205.4	222.5			
8	140.3	60.4	37.0	31.3	149.3	177.5	171.2	210.2	223.0	333.1	340.3	445.9	193.3	508	166.5	51.1	42.6	71.2	172.7	239.9	256.1	293.1	246.5	337.0	344.0	467.2	224.2			
9	88.3	65.0	57.1	44.1	135.3	180.4	179.1	206.0	178.4	205.4	157.8	160.7	138.1	509	141.7	87.8	85.7	151.7	265.3	183.5	179.0	224.8	198.3	295.3	419.1	317.4	212.5			
10	64.3	45.8	26.1	65.5	174.4	203.9	212.0	283.7	281.3	356.3	340.2	275.9	194.1	510	153.9	60.8	40.5	124.2	159.7	146.0	245.4	208.0	243.4	293.4	217.9	160.3				
11	99.9	41.2	22.3	22.2	225.3	271.3	256.8	250.9	256.6	334.2	385.7	121.9	200.4	511	106.0	64.6	41.7	28.6	108.3	208.4	231.1	316.1	270.4	341.5	283.3	157.2	179.8			
12	85.0	56.4	60.2	50.0	142.2	229.4	176.3	260.2	231.1	327.1	426.5	238.2	190.2	512	58.5	52.9	36.7	41.2	137.6	176.3	243.8	254.5	288.9	250.9	349.6	372.1	188.6			
13	126.0	56.8	37.4	60.9	154.6	175.5	159.3	208.1	244.5	334.2	458.9	219.3	186.5	513	89.2	54.9	40.0	45.3	136.9	130.5	93.3	73	154.7	209.2	278.2	134.1	120.0			
14	195.2	87.4	62.5	63.4	157.	192.1	219.6	239.8	239.9	368.6	395.4	336.2	210.7	514	107.2	68.4	49.0	59.2	209.6	251.1	271.1	263.5	287.1	190.0	101.6	177.7				
15	96.4	54.5	44.5	78.0	198.4	226.6	158.9	149.0	178.2	317.9	359.1	228.8	174.2	515	132.8	87.7	77.0	84.0	214.1	208.1	247.3	179.9	230.0	288.7	329.8	531.1	222.5			
16	116.7	60.3	40.0	44.4	191.5	229.7	235.3	268.7	359.6	445.3	267.1	206.7	516	121.4	64.3	57.7	40.2	172.7	179.0	230.8	288.0	250.5	251.7	400.9	384.2	264.0	202.8			
17	80.7	47.8	35.6	46.6	147.3	206.1	185.9	206.9	203.1	251.1	209.6	133.7	142.5	517	94.7	57.8	38.3	138.4	206.5	204.5	248.5	276.6	275.2	217.7	308.9	298.9	192.4	173.6		
18	145.8	52.1	32.7	40.0	142.5	163.7	184.4	204.0	225.3	271.3	256.8	334.2	190.2	190.2	512	58.5	52.9	36.7	41.2	137.6	176.3	243.8	254.5	288.9	250.9	349.6	372.1	188.0		
19	82.2	48.2	27.8	58.5	218.9	192.9	190.7	207.5	188.7	243.0	273.8	334.8	172.3	190.2	520	76.9	72.5	56.8	69.9	142.3	130.5	93.3	73	154.7	209.2	278.2	134.1	120.0		
20	109.1	80.0	60.6	63.8	149.9	148.8	66.9	136.1	143.9	212.9	323.2	434.5	161.6	190.2	521	93.6	60.5	47.9	46.2	111.2	155.2	163.4	248.2	274.5	393.8	287.7	190.0	101.6	177.7	
21	520.4	136.8	68.6	234.2	194.7	209.9	216.5	266.8	257.3	242.3	241.3	156.4	228.3	523	115.8	60.5	47.9	209.6	251.1	271.1	263.5	287.1	190.0	101.6	177.7					
22	86.0	42.2	36.7	32.9	130.7	226.7	239.5	229.2	212.9	300.2	307.3	177.1	168.5	522	90.2	54.4	38.4	50.2	52.9	141.0	142.6	149.5	176.6	248.2	274.5	393.8	297.1	190.0	101.6	177.7
23	90.4	62.7	50.5	54.4	157.3	148.3	239.0	287.4	255.0	238.7	230.0	297.9	176.3	190.2	523	103.0	57.5	33.3	24.1	105.4	105.5	99.0	188.2	265.5	456.0	428.3	154.2	168.2		
24	150.1	70.8	54.4	64.6	167.6	139.7	147.8	184.4	204.0	223.0	236.6	276.8	181.0	243.2	525	149.1	62.2	45.1	55.9	131.9	219.1	168.9	184.0	265.7	213.5	213.7	178.5			
25	128.8	105.3	63.8	97.7	156.8	198.4	203.0	221.1	222.0	236.6	276.8	306.8	211.1	209.4	526	76.4	55.4	37.5	106.7	132.9	222.7	252.3	237.7	308.9	298.9	192.4	173.6			
26	125.6	53.0	46.1	49.3	116.6	181.2	182.0	173.7	228.0	231.7	236.4	217.1	181.6	527	104.7	64.4	35.9	108.7	238.7	219.6	222.7	227.0	308.1	269.4	266.5	238.6				
27	70.1	64.2	48.0	71.8	124.1	150.1	115.0	213.3	181.5	221.7	231.7	181.6	141.1	527	104.2	64.9	35.9	108.7	238.7	219.6	222.7	227.0	308.1	269.4	266.5	238.6				
28	88.3	65.0	57.0	54.9	151.3	185.5	195.9	270.0	223.7	264.9	378.6	258.6	182.7	528	104.2	64.9	35.9	108.7	238.7	219.6	222.7	227.0	308.1	269.4	266.5	238.6				
29	95.5	76.3	47.7	126.2	231.1	285.9	304.1	294.3	253.8	317.9	358.6	215.0	224.4	529	115.8	55.8	42.0	67.8	142.9	191.3	200.6	133.6	218.4	301.3	240.5	307.6	168.2			
30	120.8	90.1	63.7	63.3	117.9	215.5	170.1	189.8	213.6	259.6	354.6	169.3	166.5	530	96.6	46.6	31.0	50.1	106.1	192.1	116.0	26.7	195.9	222.5	389.0	285.0	155.0			
31	57.3	33.0	28.9	50.0	149.9	226.1	252.0	244.6	216.0	304.7	303.8	57.6	204.9	531	126.7	49.1	32.0	30.8	144.5	134.9	144.6	145.3	188.2	261.2	357.1	173.7				
32	115.0	68.2	50.9	91.0	136.7	166.0	169.7	213.7	213.2	253.0	264.9	248.5	102.7	532	126.3	65.9	34.9	51.3	159.4	180.3	230.2	230.4	247.5	407.2	204.2	222.9				
33	78.1	49.2	41.4	49.7	122.3	174.3	182.0	208.6	207.3	302.7	260.8	247.6	251.0	204.3	541	95.1	86.3	88.9	67.0	75.0	119.7	161.4	191.9	192.2	228.1	244.8	317.1	116.0		
34	99.5	66.2	96.7	205.2	184.7	232.5	228.3	251.6	226.5	285.6	285.8	145.3	173.9	533	140.7	70.0	61.5	97.3	164.6	185.1	224.4	228.5	276.5	324.5	257.0	194.0				
35	83.1	46.3	43.6	46.3	123.3	204.7	207.7	270.0	223.7	264.9	248.2	198.4	259.5	503	137.7	52.8	35.7	43.2	119.4	193.0	264.1	214.2	281.7	365.2	364.5	185.7				
36	235.8	100.6	73.4	88.3	166.4	177.9	212.2	174.2	198.4	252.9	284.5	180.2	186.6	545	286.2	90.4	57.7	235.1	217.1	221.1	222.1	221.1	195.9	222.5	313.5	249.1	181.0			
37	107.1	69.1	50.5	38.5	156.3	209.4	274.7	281.5	221.5	299.2	311.7	280.1	196.6	546	134.1	93.5	80.8	80.8	164.2	170.4	170.8	217.3	208.2	265.2	337.5	214.6	214.6			
38	128.4	54.5	42.8	61.1	141.6	217.0	226.0	204.4	235.4	201.0	274.7	287.2	168.2	204.6	546	134.1	93.5	80.8	80.8	164.2	170.4	170.8	217.3	208.2	265.2	337.5	214.6	214.6		
39	153.8	75.7	57.4	51.7	171.2	260.4	163.2	233.8	254.1	207.4	226.4	247.8	192.7	212.7	547	113.4	74.4	57.2	104.7	113.4	172.7	212.7	247.4	241.7	408.1	208.2	214.6			
40	271.1	145.2	61.6	47.4	147.3	217.1	227.4	209.0	228.6	208.8	243.7	202.4	190.9																	

GATUN TOTAL MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
101	87.8	57.8	34.2	30.5	101.5	159.8	149.1	142.8	204.8	385.4	321.4	194.5	155.8	601	96.0	52.2	36.7	65.7	126.3	145.4	206.9	222.1	234.8	274.0	170.2	146.2		
102	99.3	55.3	38.0	42.2	128.8	124.0	205.6	219.4	251.6	314.5	229.7	431.2	178.3	602	92.5	68.7	56.1	83.7	202.4	242.1	279.0	294.6	306.1	365.4	254.9	344.9	216.0	
103	312.1	75.8	41.9	40.9	119.0	251.5	207.4	243.3	241.5	352.2	294.8	275.8	204.7	603	150.5	82.2	60.6	79.5	214.1	223.3	255.1	262.4	225.0	337.8	285.7	165.3	195.1	
104	87.2	51.7	35.6	46.9	113.5	209.9	202.3	167.9	177.3	286.6	308.7	329.7	168.1	604	61.8	45.9	35.0	47.3	130.2	239.3	208.9	226.0	254.8	253.7	318.4	154.8	164.7	
105	113.4	55.6	49.1	83.3	171.5	296.6	203.6	260.4	275.9	380.8	439.5	220.9	212.6	605	61.6	37.1	27.8	33.6	102.2	158.7	264.9	254.4	226.1	292.8	297.5	205.6	163.5	
106	67.2	46.9	40.9	43.4	129.8	238.5	243.9	257.0	264.1	424.6	362.4	239.4	181.3	606	81.0	50.4	28.1	65.9	157.1	191.3	272.9	407.7	268.0	134.1	176.7			
107	80.8	72.9	60.4	51.0	189.9	237.9	276.4	284.5	232.9	216.1	181.9	264.1	179.7	607	66.4	41.0	43.9	39.6	138.7	184.4	248.7	231.9	197.1	258.9	282.4	200.0	165.3	
108	95.1	57.1	34.9	28.9	81.8	97.6	64.1	125.5	261.5	298.9	421.6	538.8	175.5	608	88.7	44.8	40.7	45.9	109.9	128.6	190.6	202.0	251.3	283.8	265.0	330.1	165.8	
109	167.4	69.2	44.9	98.5	179.8	251.7	244.0	219.8	215.6	248.0	234.8	107.1	171.3	609	151.9	74.0	83.0	42.7	159.3	235.6	272.9	307.7	249.1	233.8	307.0	337.3	204.5	
110	59.6	40.7	28.2	33.3	110.7	123.8	202.0	229.9	203.4	203.6	258.6	289.5	265.2	153.7	610	100.4	57.0	55.6	71.9	165.5	222.4	167.5	238.2	231.2	249.0	431.8	381.6	197.7
111	61.8	46.7	49.0	28.4	82.9	191.9	274.6	280.4	253.9	288.7	327.2	345.9	216.5	611	101.4	79.4	64.3	141.1	207.3	183.1	136.8	106.4	212.5	256.1	295.0	157.9	161.9	
112	137.2	73.6	56.5	64.9	146.2	208.1	173.4	217.3	226.7	288.0	456.2	472.5	210.0	612	58.8	29.3	17.1	23.4	99.7	213.2	231.7	289.2	297.9	329.6	294.1	190.7	174.6	
113	131.3	66.1	42.6	65.8	157.4	166.4	167.6	196.3	254.9	280.8	222.3	165.2	160.5	613	127.8	68.1	61.0	69.9	158.3	163.8	152.9	152.2	148.8	210.9	280.2	197.9	148.0	
114	78.0	68.9	68.0	235.5	254.0	214.5	215.7	150.4	231.1	236.3	248.4	180.2	614	74.9	45.3	27.1	65.1	163.6	160.6	174.8	196.0	232.0	310.2	490.1	178.5			
115	199.1	136.3	61.4	72.1	178.2	220.1	160.7	193.8	215.4	262.0	246.4	150.0	174.7	615	606.9	92.4	59.3	205.3	280.8	218.7	227.8	307.7	249.1	233.8	307.0	337.3	204.5	
116	140.1	48.9	28.0	24.9	105.1	137.4	155.9	236.3	262.6	298.5	344.3	317.9	175.0	616	109.0	58.2	46.6	40.1	138.8	178.7	206.0	288.5	300.0	306.1	189.0	179.2		
117	152.1	64.2	40.0	64.9	141.8	227.7	187.9	220.1	291.4	347.1	416.2	288.1	203.5	617	100.4	59.7	37.9	43.5	134.0	220.0	221.1	176.7	195.7	251.2	321.8	198.8	190.2	
118	101.1	54.3	39.2	89.4	189.2	201.4	238.2	221.8	225.7	367.3	391.6	293.2	203.7	618	267.4	109.4	62.0	143.5	107.6	126.3	134.3	216.3	353.3	518.2	159.8	190.2		
119	124.4	54.2	48.6	92.9	182.7	160.9	217.9	251.1	272.7	249.3	273.7	264.9	182.8	619	83.9	58.8	46.1	34.4	121.3	164.7	175.8	167.5	210.5	280.8	328.2	128.2	116.3	
120	121.6	68.1	39.6	46.1	199.7	183.0	162.6	213.1	231.5	234.4	263.7	153.8	159.0	620	53.7	37.4	24.6	37.3	225.5	226.4	253.3	259.8	333.5	286.8	169.3	171.9		
121	69.1	47.7	32.6	41.4	124.4	190.0	196.6	283.3	280.9	377.8	456.8	293.3	199.5	621	97.1	53.1	47.5	40.5	134.6	268.8	264.8	299.8	265.6	289.3	243.3	282.6	189.1	
122	69.3	54.5	35.5	31.1	140.6	199.8	193.4	213.0	262.3	283.0	246.4	181.1	197.2	622	142.6	77.6	52.9	86.1	151.0	222.2	269.1	291.5	265.0	317.8	257.0	334.8	205.8	
123	182.3	87.8	74.7	145.8	188.5	159.6	207.3	158.4	207.9	235.4	262.0	246.1	197.2	623	168.2	79.7	44.8	83.5	188.8	249.1	197.7	200.2	235.3	301.4	322.8	159.4	149.2	
124	162.8	70.6	46.6	56.4	145.8	188.9	194.0	236.4	224.6	311.4	281.7	169.0	270.6	624	76.7	72.1	44.5	41.6	156.7	187.7	151.6	135.3	224.7	313.0	209.9	198.8		
125	88.0	50.6	46.1	40.4	174.0	162.5	204.9	262.9	218.8	346.0	374.9	266.0	152.5	626	72.1	55.2	43.4	47.1	130.7	224.5	213.3	248.2	280.4	341.0	367.5	391.2	201.8	
126	125.2	83.3	63.7	97.1	221.1	209.6	203.3	230.0	230.0	231.3	268.8	244.3	198.2	627	199.0	77.7	30.9	51.0	119.8	123.3	214.3	260.4	320.0	300.1	186.8	170.5		
127	75.7	38.3	27.4	36.1	131.0	145.6	149.9	142.8	210.0	280.5	302.8	215.2	146.6	627	227.7	37.7	30.9	51.0	119.8	123.3	214.3	260.4	320.0	300.1	186.8	175.5		
128	111.9	79.5	63.7	101.8	197.5	206.5	187.7	172.5	202.6	226.5	265.9	226.3	167.3	628	88.3	54.1	39.8	49.0	153.9	176.1	224.5	213.5	281.8	286.9	359.4	175.5		
129	202.3	119.2	66.0	146.4	210.8	202.1	184.7	256.5	262.5	292.8	238.6	167.3	195.8	629	92.3	76.2	44.2	26.4	134.6	268.8	205.3	207.3	225.1	242.6	201.9	171.9		
130	72.0	67.0	60.9	80.4	273.4	240.3	287.0	213.5	284.0	309.9	257.9	209.1	221.2	630	145.0	88.7	58.3	59.9	201.0	200.2	246.9	207.3	203.5	205.6	356.7	183.7		
131	126.4	82.7	42.5	34.3	114.5	197.0	190.0	221.2	250.6	353.1	309.4	409.9	176.5	631	79.0	54.1	33.5	40.2	110.6	171.8	206.8	219.7	222.5	299.7	405.7	356.6	183.7	
132	71.1	43.0	23.2	42.1	129.1	119.8	202.5	204.1	221.9	278.8	314.7	254.0	175.4	632	158.6	81.7	55.8	50.1	121.1	159.7	135.3	153.5	224.7	224.9	219.9	167.3		
133	130.7	107.9	64.1	75.0	148.5	184.6	206.9	228.0	235.6	377.0	337.0	320.9	205.1	633	159.7	121.7	81.5	124.9	236.4	297.4	260.9	331.3	355.7	203.1	156.9			
134	156.9	71.4	57.9	34.3	119.5	203.1	195.8	204.7	236.5	299.6	325.6	424.7	267.7	632	93.8	59.2	55.9	135.9	264.7	237.8	272.9	328.7	350.5	326.3	519.4	220.3		
135	157.7	79.7	43.9	31.8	183.1	178.8	184.8	220.9	208.4	280.8	323.6	217.1	165.9	633	152.8	62.3	42.8	42.8	98.1	238.8	234.0	180.6	245.8	177.7	228.8	322.9	193.5	
136	130.1	61.4	27.0	43.8	136.2	170.8	219.2	233.6	236.7	288.2	323.8	209.4	161.4	639	152.8	62.3	45.1	43.9	127.2	198.6	199.5	213.6	300.3	306.5	306.5	176.6		
137	83.9	43.8	39.9	38.9	160.3	119.5	95.8	87.7	133.3	268.4	333.2	329.6	140.3	640	84.6	45.1	49.5	255.3	326.0	216.9	187.1	252.0	282.7	350.5	236.4	201.9		
138	54.5	34.8	35.4	57.8	175.8	175.4	190.2	169.5	220.5	253.3	271.3	256.7	158.1	654	140.5	64.6	58.1	70.6	212.2	224.8	192.3	278.7	216.0	303.5	202.0	191.2		
139	112.2	82.5	57.7	114.2	170.1	212.6	195.1	236.8	250.7	307.8	326.2	326.9	178.4	661	122.9	67.5	54.9	39.6	212.2	223.2	222.9	225.0	377.3	221.1	172.6			
140	105.2	41.8	31.3	27.5	120.5	189.3	261.3	264.7	227.6	317.4	348.4	344.2	167.0	662	59.4	39.6	31.6	38.6	117.1	171.3	110.7	118.6	216.9	294.5	328.8	154.5		
141	84.0	48.1	34.3																									

GATUN TOTAL MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
201	88.5	84.8	54.5	55.7	170.5	175.4	113.5	163.3	205.7	231.8	357.6	201.6	158.6	701	185.4	117.5	102.8	93.8	147.0	172.8	243.9	269.4	251.2	378.7	366.8	118.6	204.0
202	120.8	92.7	66.8	97.3	159.1	166.4	212.8	228.4	233.5	275.5	267.0	207.0	177.3	702	67.8	60.5	34.8	42.2	131.5	162.7	216.6	194.8	155.3	202.9	371.3	301.9	162.0
203	73.1	65.0	42.3	41.6	161.7	187.3	166.3	188.5	250.0	294.0	307.6	360.7	178.2	703	116.0	80.4	62.6	59.9	145.1	200.6	199.6	299.6	232.1	290.7	343.9	332.9	197.0
204	130.6	79.4	59.2	30.8	118.2	226.8	251.2	245.7	265.0	316.1	287.0	131.0	178.4	704	79.3	49.2	33.6	35.6	141.0	235.2	171.8	230.7	211.3	256.3	442.0	258.2	170.9
205	64.0	56.0	37.5	106.8	174.4	177.5	206.8	261.4	271.6	328.2	225.5	95.3	167.5	705	93.2	64.9	41.5	30.4	117.7	164.4	143.1	225.8	215.5	311.5	438.8	338.2	182.1
206	53.9	35.3	31.1	88.5	206.8	213.5	135.8	169.3	211.9	244.7	312.5	165.2	155.7	706	148.1	63.3	39.5	70.5	161.0	194.1	201.9	193.4	217.0	237.5	383.5	217.0	177.4
207	101.6	44.8	47.9	86.9	175.0	190.5	269.6	324.4	259.5	420.7	498.0	413.6	236.3	707	78.0	62.1	43.1	41.6	124.4	224.4	230.4	266.9	304.8	369.8	308.5	189.5	
208	378.3	68.5	45.4	48.8	115.5	135.3	94.1	115.6	167.6	240.3	285.4	257.9	162.7	708	63.9	45.1	43.0	74.4	154.9	224.4	238.9	222.7	189.5	231.3	370.6	212.6	172.6
209	136.6	90.4	80.6	79.7	168.9	284.5	282.3	271.1	225.6	240.9	322.4	209.1	199.3	709	168.9	71.1	45.1	66.5	193.5	244.6	258.1	191.6	160.6	201.8	249.6	291.1	178.5
210	59.8	42.4	42.6	97.4	251.4	221.5	215.9	204.7	205.5	258.0	240.7	401.3	187.4	710	213.8	97.5	65.7	36.5	123.3	172.8	163.2	207.4	197.7	293.1	224.5	426.0	185.1
211	120.7	71.4	53.4	84.0	156.1	211.1	267.4	283.5	227.2	303.9	322.2	524.2	219.6	712	80.1	42.5	26.8	26.9	97.2	128.8	142.7	177.6	225.3	310.9	407.9	485.1	179.3
212	230.5	96.4	64.9	63.0	145.2	201.3	142.1	165.0	195.7	203.9	333.9	230.1	172.7	713	145.7	70.7	73.8	131.4	180.5	171.7	149.4	205.5	214.7	203.4	348.3	305.6	183.4
213	68.7	39.3	76.8	158.9	272.9	257.7	218.3	242.2	280.5	344.9	290.2	199.1	714	184.0	108.8	69.7	73.9	144.5	164.1	174.9	259.2	278.7	335.3	281.6	186.3		
214	115.4	58.7	39.3	76.8	158.9	272.9	257.7	218.3	242.2	280.5	344.9	290.2	199.1	714	184.0	108.8	69.7	73.9	144.5	164.1	174.9	259.2	278.7	335.3	281.6	186.3	
215	77.3	58.4	45.3	56.4	184.9	175.5	205.1	241.1	191.3	286.4	367.1	297.9	165.6	715	134.4	62.2	48.8	125.7	211.2	221.6	234.5	289.7	373.9	277.1	210.6		
216	110.9	64.9	63.5	110.1	135.5	180.1	208.7	258.4	284.6	367.1	297.9	165.6	716	96.9	54.4	42.3	32.5	113.0	149.5	97.3	210.9	215.0	292.4	337.1	157.1	148.3	
217	100.6	72.5	62.8	67.5	157.4	255.0	250.2	227.4	224.2	326.8	327.0	190.0	717	103.0	67.7	60.7	103.5	195.0	202.1	240.5	251.2	240.8	335.3	280.9	183.1		
218	97.6	59.0	38.2	46.7	140.9	219.3	234.5	230.8	174.9	174.2	273.4	401.0	113.2	718	102.8	75.4	46.3	67.3	174.0	215.7	211.2	291.1	220.2	275.6	315.7	214.5	
219	76.5	38.0	36.7	21.3	140.4	186.5	196.4	219.3	213.8	234.0	206.0	142.2	143.8	719	217.9	59.7	43.1	62.4	186.7	265.3	221.7	220.7	294.2	293.1	300.1	188.3	
220	84.3	60.4	39.4	46.6	127.9	192.5	196.4	232.2	231.1	328.0	346.6	109.8	154.5	721	99.1	54.9	38.8	100.2	295.1	274.2	295.2	304.6	250.5	304.8	323.7	189.3	210.7
221	67.3	58.3	37.5	54.5	125.0	185.9	218.8	217.7	222.1	250.1	346.6	109.8	154.5	722	83.4	54.0	46.1	67.2	148.5	124.3	217.1	252.8	175.7	266.0	210.8	332.1	161.1
222	61.4	59.0	40.3	39.0	139.1	221.1	231.1	261.7	243.8	312.7	339.9	193.2	174.7	722	83.4	54.0	46.1	67.2	148.5	124.3	217.1	252.8	175.7	266.0	210.8	332.1	161.1
223	173.1	88.3	53.5	86.5	177.3	259.3	240.3	216.5	209.1	308.6	401.3	286.7	208.4	723	78.0	57.4	43.5	54.5	160.2	168.1	144.6	213.7	166.7	239.7	338.3	196.6	149.4
224	179.2	79.9	62.8	65.2	249.5	282.4	271.7	268.0	254.8	279.0	241.6	165.5	198.2	724	83.9	49.2	38.9	48.3	151.7	186.9	201.5	189.3	215.8	224.1	365.2	192.8	162.3
225	106.7	66.8	43.9	68.6	197.2	242.7	243.6	278.6	231.2	239.4	221.2	228.7	180.7	725	95.1	48.6	37.6	61.4	120.7	178.7	168.7	224.0	203.0	234.8	263.6	219.1	193.8
226	90.1	61.3	40.2	48.0	191.0	164.7	91.4	66.5	153.1	217.5	316.0	353.4	149.4	726	116.8	65.6	60.4	66.5	135.8	157.6	215.5	208.9	262.2	349.7	334.4	199.3	
227	122.1	39.4	30.1	33.5	116.8	156.5	190.8	232.3	215.7	327.4	348.2	367.3	312.4	180.8	728	112.3	97.4	84.3	120.5	183.6	211.6	183.7	168.3	192.4	296.6	211.1	183.9
228	119.1	67.6	52.0	174.7	242.8	245.0	261.1	258.7	255.8	228.5	305.5	329.6	276.8	170.8	729	108.6	75.4	61.2	79.6	198.6	181.0	152.0	209.6	256.7	326.9	198.0	165.5
229	118.8	52.6	39.3	34.9	104.9	144.8	235.4	278.5	205.5	189.3	267.5	311.2	116.1	165.3	730	85.0	72.5	41.8	27.9	82.2	121.7	139.3	186.7	248.9	284.0	162.4	134.1
230	95.2	56.2	46.2	111.2	215.5	181.6	200.5	258.3	284.6	312.7	309.3	193.9	177.1	731	70.7	46.2	32.1	51.5	160.8	178.1	249.9	264.8	304.3	332.8	219.1	181.2	
231	56.1	44.5	35.6	57.4	156.0	173.8	196.5	225.1	223.3	234.7	279.0	259.7	162.5	731	87.2	66.5	57.2	76.6	145.5	213.7	179.2	212.6	201.0	236.5	255.6	165.7	
232	117.8	94.8	49.2	38.6	166.6	167.3	147.3	147.3	183.7	247.1	387.1	359.6	174.7	732	72.5	40.6	32.9	38.9	151.7	187.4	201.2	137.5	186.5	236.5	318.7	171.4	
233	234.5	82.1	58.1	54.7	134.9	195.8	239.6	223.3	215.0	301.7	287.3	210.7	202.1	733	62.5	41.9	30.4	40.2	149.4	234.7	228.2	222.7	339.7	347.3	198.4	216.6	
234	96.7	52.8	32.2	39.1	114.4	194.1	257.5	252.7	277.6	301.2	181.3	205.7	155.9	734	65.2	57.8	36.2	39.6	124.9	198.3	241.1	256.7	295.7	302.6	182.4	182.4	
235	241.8	97.0	64.8	129.7	177.3	221.3	211.3	197.4	201.5	274.5	254.6	221.6	163.4	734	90.3	42.5	29.9	27.1	123.5	214.7	175.9	228.5	302.1	303.4	186.8	168.6	
236	32.0	22.3	33.2	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	734	69.1	50.3	41.4	41.5	83.1	134.9	161.1	213.7	232.7	302.2	302.2	168.6	
237	170.6	78.6	43.9	67.3	124.4	165.7	191.8	160.8	202.0	270.8	327.0	316.4	167.7	736	117.1	56.1	49.3	87.3	141.3	223.7	232.7	237.7	237.7	302.2	302.2	168.6	
238	108.9	68.8	43.3	37.4	114.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	214.7	737	71.8	42.7	35.6	44.6	202.3	233.3	242.4	242.4	273.7	273.7	302.2	167.7	
239	236.6	127.6	59.5	37.4	110.7	168.9	175.0	216.6	259.6	346.7	260.5	251.7	167.6	735	318.3	100.3	42.5	29.9	188.6	202.0	247.6	269.4	314.1	363.1	499.5	252.3	
240	131.9	50.9	40.9	8.6	41.4	171.8	208.4	280.6	252.2	307.0	314.1	167.7	177.1	736	107.1	46.7	32.1	51.5	160.8	236.9	296.5	302.2	302.2	302.2	302.2	160.5	
241	80.5	60.9	41.0	41.4	102																						

GATUN TOTAL MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	
301	337.9	90.4	61.5	51.7	144.7	217.9	231.8	267.3	267.8	325.9	359.5	380.2	228.1	801	134.5	64.7	39.7	85.8	210.5	207.6	156.9	177.7	189.9	346.6	449.4	309.7	197.8	
302	116.0	107.7	92.0	54.2	189.2	219.6	237.6	230.2	193.5	245.2	329.7	253.7	189.1	802	301.4	99.6	86.6	155.5	251.3	218.4	209.5	249.9	256.0	342.6	241.0	108.8	210.2	
303	93.9	61.6	49.9	392.2	246.9	228.6	254.2	243.8	266.6	342.6	302.9	121.6	217.1	803	64.4	52.7	34.5	49.4	169.7	243.7	264.7	173.9	219.6	251.7	195.7	206.9	160.6	
304	80.2	60.3	49.7	87.0	182.6	165.7	195.6	101.6	208.5	241.5	394.2	172.3	161.6	804	84.0	54.9	40.3	80.9	205.1	215.2	240.6	243.8	266.1	435.3	339.1	241.3	203.9	
305	84.7	44.6	45.7	29.3	100.9	125.4	136.8	235.1	232.4	322.7	366.5	140.3	158.9	805	82.2	52.6	44.6	62.1	173.5	226.7	245.5	265.9	276.0	292.2	486.3	464.7	223.0	
306	76.1	31.4	88.8	67.2	140.5	171.6	217.0	282.3	232.9	296.8	362.7	277.1	175.5	806	98.6	75.1	55.7	78.7	150.3	141.9	150.1	209.8	229.3	264.3	328.8	305.5	174.0	
307	151.6	56.5	44.2	68.7	139.1	141.1	161.7	282.7	275.8	203.8	516.0	323.4	203.5	807	460.6	105.7	70.0	115.0	168.4	234.8	260.6	248.0	192.3	276.6	363.1	332.2	235.6	
308	129.5	76.5	60.5	57.2	183.3	252.3	277.0	297.2	290.1	476.4	223.3	368.3	232.6	808	155.8	77.6	44.9	94.5	171.6	162.9	255.6	210.6	268.6	248.8	416.4	180.8	180.8	
309	238.1	120.9	45.6	54.0	104.7	186.4	222.4	217.6	270.3	285.2	544.3	483.8	231.1	809	73.7	42.8	27.5	62.2	162.8	233.0	255.3	278.5	209.4	266.6	162.7	306.3	171.2	
310	158.3	86.4	55.7	282.1	221.7	217.8	261.8	297.9	268.3	280.9	275.3	217.2	218.6	810	165.8	65.8	44.4	74.5	194.5	192.7	221.6	216.1	251.9	238.1	320.0	370.4	212.3	
311	63.0	43.6	29.7	62.2	141.5	195.3	237.2	220.7	258.7	270.8	263.7	480.9	19.9	811	117.6	55.7	33.3	43.9	220.3	219.7	228.3	203.8	283.4	403.9	458.1	100.8	223.9	
312	177.3	82.0	75.9	75.0	125.1	109.5	154.4	232.8	239.6	252.6	162.1	160.4	812	101.0	72.3	63.3	130.9	219.7	264.4	303.8	285.3	283.4	403.9	458.1	100.8	193.2		
313	65.4	35.7	26.8	39.3	124.1	221.8	223.0	275.2	265.7	294.4	363.5	111.1	170.7	813	68.1	33.4	28.2	50.0	123.2	230.6	215.8	208.1	224.2	213.2	278.8	193.5	193.5	
314	82.9	66.8	49.9	68.5	206.3	203.8	184.6	207.2	206.7	251.5	204.3	203.5	814	254.6	80.0	57.4	120.8	237.2	230.8	213.5	208.1	224.2	213.2	278.8	193.5	202.0		
315	109.2	66.1	41.4	53.0	150.8	203.7	162.3	214.8	218.1	341.2	452.5	361.2	197.9	815	116.2	58.3	44.6	79.2	144.2	221.5	203.7	195.1	210.6	276.9	321.8	345.0	416.5	156.5
316	135.4	60.7	51.2	128.9	57.2	183.3	252.3	277.0	297.2	290.1	476.4	223.3	368.3	232.6	816	128.2	50.7	45.5	169.4	202.1	209.6	225.3	211.3	220.0	211.3	220.0	156.5	
317	88.7	44.1	38.6	67.5	204.2	197.1	263.5	279.2	274.8	395.4	440.7	350.5	220.4	817	89.0	52.4	48.3	58.1	223.5	223.8	218.1	203.4	284.3	395.0	292.4	191.4		
318	73.3	55.5	47.4	46.3	182.1	199.0	254.6	281.1	229.6	324.5	367.6	284.3	199.3	818	119.6	54.7	48.9	138.5	159.1	165.1	142.1	211.2	281.5	332.3	189.4	160.5		
319	145.8	54.5	37.9	44.5	128.6	188.9	171.2	262.6	237.9	216.1	307.7	125.5	164.0	819	87.3	56.3	43.8	36.2	134.8	166.5	242.0	301.7	277.8	320.1	290.1	310.6	188.9	
320	105.7	56.8	35.5	33.9	55.5	168.1	228.0	190.0	260.1	234.4	209.3	169.2	174.7	820	196.9	66.6	49.9	105.5	146.7	111.5	78.5	148.6	217.4	260.1	232.8	300.7	156.1	
321	104.4	52.2	40.7	76.2	144.7	175.7	148.6	152.7	204.8	243.5	337.1	110.7	149.3	821	137.6	89.2	56.2	150.5	216.6	247.3	284.5	316.2	284.5	240.8	336.1	339.8	225.0	
322	64.3	46.0	31.1	55.5	103.	243.9	256.7	301.6	267.8	309.7	271.8	198.9	179.2	822	98.2	76.9	52.4	116.1	214.1	181.0	260.4	231.2	225.6	346.7	258.1	199.9	188.4	
323	73.1	48.9	47.1	40.1	127.5	215.6	260.2	287.9	219.3	314.1	223.9	386.9	187.2	823	82.1	49.3	38.6	38.9	173.4	187.2	182.8	212.8	205.7	205.5	296.6	274.7	172.8	
324	89.8	70.9	38.4	32.4	140.5	161.0	169.4	236.6	229.2	324.8	319.5	276.5	175.7	824	92.7	63.7	65.7	52.5	43.2	168.0	181.8	223.0	212.5	205.5	203.0	303.4	203.0	151.9
325	84.8	64.8	47.8	58.7	178.8	291.4	290.6	285.6	285.6	321.4	325.7	412.2	339.0	217.6	825	133.6	59.6	41.1	36.7	109.7	159.7	157.4	220.1	229.4	240.0	297.9	396.3	190.3
326	129.6	52.6	25.9	36.8	141.7	159.4	159.7	207.9	162.8	211.0	345.6	299.2	161.0	826	105.1	41.5	48.0	107.5	208.5	245.5	250.6	270.7	362.0	376.2	21.6	179.9		
327	91.0	33.5	24.0	38.5	124.9	192.3	191.4	231.3	189.0	252.8	301.9	190.0	155.2	827	94.6	55.4	48.4	105.7	120.5	175.7	247.3	245.5	246.5	257.0	362.0	271.1	179.9	
328	77.9	56.2	33.8	30.2	96.9	105.2	79.3	90.0	208.7	273.7	388.3	237.0	140.1	828	63.1	49.7	32.9	41.0	155.4	180.9	247.3	248.3	248.3	248.3	385.0	355.2	183.8	
329	152.4	75.8	65.6	55.7	162.6	165.1	203.8	236.1	230.9	212.1	269.6	225.9	242.6	829	104.6	71.3	73.5	189.2	228.0	226.6	269.0	311.9	250.5	193.8	183.8			
330	59.2	39.6	19.4	42.4	151.5	236.1	230.8	207.8	267.8	301.1	342.5	336.2	203.8	830	64.3	49.2	32.2	131.1	114.0	146.2	182.1	203.7	205.0	207.7	207.7	177.7		
331	126.8	77.8	41.3	41.0	120.9	231.2	197.2	150.3	180.0	230.7	228.7	253.2	187.4	831	82.9	51.1	41.1	46.5	149.5	135.9	156.1	193.5	204.3	245.2	282.0	156.5		
332	53.3	30.2	32.5	32.8	144.1	178.3	265.5	264.7	230.5	243.8	248.7	222.5	174.7	832	62.0	35.5	20.8	81.1	170.7	223.0	220.5	205.5	205.5	203.0	303.4	223.0	156.5	
333	80.0	44.9	30.3	30.3	30.3	227.5	206.2	220.8	220.8	220.8	220.8	220.8	220.8	833	76.8	56.7	50.8	32.4	28.7	47.3	132.7	193.0	242.6	242.6	242.6	242.6	242.6	132.7
334	160.3	88.8	50.5	50.2	116.1	171.5	177.4	174.8	257.1	267.8	267.8	267.8	174.5	834	84.4	51.4	47.4	93.5	203.6	246.7	221.7	272.5	272.5	250.3	385.0	355.2	214.8	
343	89.8	61.4	45.2	45.4	150.4	215.0	245.2	279.9	350.4	210.1	169.8	251.0	260.5	835	127.2	44.5	56.1	51.2	207.9	242.3	229.5	227.5	227.5	227.5	227.5	227.5	188.5	
344	69.4	36.4	33.0	41.3	125.5	176.3	187.6	259.5	225.0	224.7	224.7	224.7	211.0	836	137.2	44.8	42.4	39.4	174.8	243.2	229.5	229.5	229.5	229.5	229.5	229.5	174.3	
345	21.1	61.5	42.1	53.3	140.1	177.2	135.0	114.0	129.8	225.0	224.7	224.7	104.7	836	77.0	39.0	30.2	39.0	112.7	217.8	186.5	190.5	218.3	218.3	218.3	218.3	187.7	
346	67.7	59.0	45.8	45.7	156.7	250.9	272.0	304.3	260.4	317.5	317.6	104.7	184.7	836	86.8	39.1	31.1	47.4	21.7	218.6	218.6	218.6	218.6	218.6	218.6	218.6	184.8	
347	53.6	44.6	40.6	46.8	145.0	133.5	154.1	177.3	170.7	218.1	41.8	141.1	150.3	835	84.3	48.2	37.0	37.0	164.6	223.2	203.7	203.7	203.7	203.7	203.7	203.7	184.8	
348	28.7	73.7	44.8	48.4	148.4	174.9	248.9	274.9	220.9	266.5	276.6	175.8	141.7	834	94.9													

GATUN TOTAL MONTHLY SYNTHETIC FLOWS GENERATED USING HEC-4 (CMS)

Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
401	127.7	73.3	37.8	58.7	220.0	238.7	190.4	242.0	245.2	298.3	484.6	237.1	204.5	901	64.1	42.2	40.8	79.2	127.2	135.5	188.3	228.8	216.7	269.0	360.5	392.2	178.7
402	91.3	57.3	39.4	48.5	154.4	219.0	166.5	198.0	203.3	315.9	277.1	255.9	168.9	902	178.1	68.2	48.2	42.4	119.9	171.3	189.5	148.1	144.1	276.5	343.6	271.1	166.8
403	49.0	49.0	32.3	36.2	147.4	174.2	264.8	286.3	261.8	309.9	267.8	163.8	173.7	903	126.5	62.3	44.8	59.0	146.7	145.6	159.8	211.0	233.5	366.9	283.6	130.0	164.1
404	62.0	56.9	40.3	83.3	180.4	203.3	256.8	266.0	211.3	258.7	263.2	92.1	164.5	904	112.8	56.4	34.7	31.7	112.5	150.8	226.7	270.3	286.2	301.0	352.1	122.4	171.5
405	93.3	80.3	48.1	46.9	163.7	183.7	198.7	230.5	208.6	281.1	148.1	906	88.6	61.1	49.9	37.9	127.9	153.1	223.9	206.4	234.2	263.3	252.3	165.4	155.4		
406	106.7	55.1	32.4	55.1	108.4	153.7	163.0	183.7	198.7	230.5	208.6	281.1	148.1	907	71.2	56.9	38.9	130.8	222.8	250.0	236.1	212.2	202.9	216.0	371.9	247.2	186.0
407	145.2	63.6	51.5	38.4	145.9	152.4	203.7	239.0	270.7	307.0	387.9	275.2	189.2	908	146.0	76.6	53.0	115.8	194.2	169.6	175.5	138.5	287.4	438.0	207.4	180.4	
408	74.1	53.3	33.5	205.1	209.5	184.2	190.3	226.3	257.7	295.8	349.3	157.7	188.1	909	78.9	60.4	62.5	98.9	233.0	164.0	94.9	132.2	192.8	274.5	270.4	132.0	149.6
409	105.2	82.5	44.7	33.4	118.1	108.6	163.3	244.5	203.7	313.9	424.4	371.3	184.5	909	87.4	39.5	28.6	38.7	122.8	151.5	103.0	120.4	213.1	307.6	288.4	301.5	152.5
410	105.8	61.7	47.7	46.7	179.3	222.8	166.4	181.7	235.4	305.0	350.9	170.1	172.8	910	41.1	39.5	18.4	64.5	161.2	247.1	241.5	280.1	260.2	241.5	311.5	486.5	205.4
411	89.6	47.2	27.1	35.2	103.0	150.1	131.0	153.7	250.0	372.1	362.4	472.4	182.8	911	77.1	58.3	35.4	64.4	166.2	231.3	230.4	258.1	210.9	305.2	431.9	164.2	222.9
412	183.1	83.3	66.2	64.7	133.4	200.6	171.4	155.1	203.7	285.3	262.2	201.1	167.6	912	44.7	103.1	59.2	64.4	166.2	232.3	282.6	277.2	283.5	314.7	281.6	180.6	
413	58.2	37.9	25.4	57.7	197.9	253.9	206.0	212.2	236.9	293.0	242.9	187.7	180.7	913	90.0	73.1	55.9	39.5	121.7	193.7	226.6	253.6	214.2	277.4	248.8	115.4	159.2
414	143.1	59.8	44.8	36.5	123.5	174.5	126.4	257.9	270.2	287.7	264.0	357.2	178.2	914	66.5	37.3	27.2	31.3	187.4	214.5	273.8	280.5	295.8	352.6	366.3	209.9	
415	131.5	63.3	36.5	40.3	174.0	185.0	219.1	187.3	214.3	312.6	344.6	180.7	174.1	915	110.0	52.9	42.9	39.7	108.4	157.7	200.3	187.4	208.4	198.1	228.8	161.0	141.3
416	54.9	44.4	37.4	34.5	124.5	176.7	184.2	202.1	195.5	224.3	291.7	411.3	403.0	916	113.0	85.2	70.5	52.2	114.7	155.2	140.4	182.8	260.5	300.7	267.7	165.3	
417	266.5	161.3	103.7	137.0	337.7	293.9	229.1	227.2	229.5	304.8	403.3	283.2	181.1	918	72.0	47.7	35.7	30.8	174.6	239.3	210.9	195.5	258.2	298.2	139.1	167.4	
418	130.2	100.6	81.3	84.0	264.5	212.4	197.9	221.2	235.5	296.4	249.4	133.8	183.1	919	69.1	61.8	41.2	65.3	127.2	170.2	229.4	249.2	217.5	193.3	306.5	320.5	170.8
419	89.0	49.2	32.2	59.3	129.0	219.9	238.6	291.6	251.3	210.3	287.5	281.5	178.5	919	82.8	56.0	41.6	58.0	133.7	182.6	213.0	275.3	284.1	399.4	564.8	400.6	224.3
420	113.0	67.4	54.5	84.5	172.1	203.5	184.3	225.5	325.1	173.0	192.1	222.3	122.3	920	921	121.1	122.3	94.3	164.3	180.1	220.4	272.5	256.5	318.3	471.2	457.2	229.5
421	93.1	56.5	31.3	38.8	137.0	253.9	195.8	260.5	268.0	249.0	307.0	263.5	187.7	922	138.8	109.2	64.0	48.5	153.8	196.2	226.0	219.1	179.1	275.6	263.6	166.1	167.2
422	156.9	80.8	44.2	61.1	184.8	239.9	189.5	187.0	237.0	298.7	307.0	263.5	187.7	923	102.8	50.8	45.7	67.9	211.8	204.4	109.7	169.1	222.7	281.0	332.8	215.8	
423	119.5	52.7	42.4	80.2	152.5	256.3	274.7	201.1	239.6	286.4	280.9	269.4	196.6	924	110.0	52.9	42.9	39.7	108.4	157.7	200.3	187.4	204.1	187.4	260.5	300.7	165.3
424	95.5	63.0	42.4	67.4	123.2	177.8	240.8	227.7	246.1	260.0	285.9	364.9	183.4	924	125.7	67.2	67.2	110.7	305.7	210.5	105.7	184.6	224.0	267.6	232.2	176.1	
425	104.3	56.5	39.2	52.2	198.4	157.5	223.9	180.3	243.2	234.4	328.7	141.5	163.8	925	68.5	49.2	34.0	51.8	180.6	214.5	196.2	231.9	252.7	240.0	302.5	251.7	164.0
426	77.8	64.6	54.7	99.1	184.8	237.0	291.9	272.2	266.3	305.9	331.0	181.0	197.2	926	87.4	64.6	45.4	51.8	181.9	230.3	185.6	202.3	201.2	235.2	267.7	332.6	233.7
427	89.8	46.0	33.0	31.6	147.9	130.3	123.4	106.0	171.8	213.3	311.0	279.0	140.3	927	114.1	66.1	63.1	116.5	230.3	202.1	257.7	270.6	280.5	207.9	169.8		
428	188.2	81.1	52.2	275.0	258.3	235.8	235.6	261.1	253.2	256.4	342.0	224.1	222.5	928	112.7	48.5	36.9	82.0	151.6	205.6	220.4	183.4	200.1	257.7	270.6	190.0	
429	91.8	59.3	46.5	137.2	154.3	203.5	184.3	231.1	291.8	293.3	240.9	224.4	184.4	929	92.3	78.6	42.0	91.4	132.8	213.5	234.4	249.0	219.7	276.4	239.5	196.0	
430	83.7	62.1	46.4	102.1	227.0	271.7	246.8	252.9	345.8	274.8	325.4	239.8	189.0	930	184.9	82.6	62.5	229.2	197.4	213.9	231.5	204.0	222.2	346.9	351.4	215.6	
431	102.5	58.6	37.4	30.4	136.7	146.2	168.3	232.7	224.4	344.5	415.7	195.4	174.2	931	67.5	59.1	32.2	36.1	97.5	137.3	107.3	180.3	223.5	346.9	319.4	209.0	
432	132.9	78.8	53.3	36.3	129.0	221.7	198.6	303.6	253.8	255.6	337.4	216.6	193.4	932	221.0	64.6	54.0	45.4	21.7	221.5	233.7	210.0	200.1	230.5	231.1	302.4	184.5
433	92.7	58.1	37.4	47.7	158.7	139.7	102.1	203.7	307.2	273.4	455.7	421.3	142.9	934	167.5	211.7	93.4	167.5	96.3	197.7	167.1	143.0	229.1	252.3	190.5		
434	78.8	55.1	46.7	83.0	135.1	251.7	192.9	173.6	157.7	137.3	274.6	214.9	182.0	935	68.6	52.0	32.0	33.9	142.5	171.3	231.0	230.1	204.8	222.2	295.6	215.5	
435	123.0	73.8	39.4	30.7	49.4	132.3	135.5	251.4	261.4	278.6	249.8	379.0	192.8	181.0	944	111.6	58.2	32.0	33.9	142.5	171.3	231.0	230.1	204.8	222.2	295.6	215.5
436	75.9	39.4	19.4	26.5	82.3	133.5	251.4	287.1	234.1	261.9	334.7	305.4	176.2	932	113.3	58.2	32.0	33.9	142.5	171.3	231.0	230.1	204.8	222.2	295.6	215.5	
437	78.1	40.6	23.6	42.8	116.7	125.2	158.3	281.7	247.1	217.1	208.2	211.8	104.9	945	163.4	85.6	62.9	229.2	197.4	213.9	234.0	207.5	230.1	305.5	327.9		
438	89.8	51.3	31.3	35.0	131.0	184.6	151.4	174.1	217.5	287.1	267.4	224.1	197.7	947	185.4	107.1	66.6	48.5	147.7	207.1	210.9	248.7	206.5	227.2	198.3		
439	65.7	49.3	31.8	32.6	146.1	184.4	157.5	188.0	204.5	286.6	184.6	249.3	150.0	946	166.5	77.7	59.1	116.1	99.7	171.3	191.0	211.2	241.5	194.8	68.3		
440	242.0	157.3	73.9	72.7	252.2	216.6	223.6	246.6	237.0	333.3	366.4	224.1	197.7	948	54.3	20.7	8.7	104.9	147.7	207.1	212.8	210.0	250.5	237.7	135.7		
441	127.0	62.0	42.6	12.7	160.3	171.1	219.0	240.4																			

**INPUT AND OUTPUT FILES
MADDEN LAKE
HEC-4 SYNTHETIC RAINFALL**

A MADDEN LAKE
 A BASIN AVERAGE MONTHLY RAINFALL IN MM
 A ESTIMATED BY MWH

B	1911	1	1	90	1000	100	1					
H 211911	54	75	36	169	397	245	129	190	318	523	307	83
H 211912	49	30	5	83	268	299	241	261	266	409	407	126
H 211913	41	30	13	20	414	340	244	288	355	322	301	148
H 211914	17	20	37	68	209	289	131	325	496	400	355	146
H 211915	19	168	42	349	229	403	502	333	265	375	463	223
H 211916	45	72	17	288	286	269	417	260	299	442	303	102
H 211917	2	4	14	53	319	297	437	384	309	259	529	187
H 211918	105	42	40	184	411	405	321	231	310	354	233	33
H 211919	100	40	17	339	198	218	253	319	427	332	261	199
H 211920	50	23	49	103	261	306	492	332	265	443	289	56
H 211921	29	74	26	207	292	349	390	469	455	496	278	268
H 211922	168	51	34	98	399	344	125	219	265	344	345	300
H 211923	49	36	12	47	232	342	251	226	335	654	274	139
H 211924	42	66	14	193	363	280	505	416	423	215	241	84
H 211925	96	25	9	144	201	465	373	260	288	460	260	162
H 211926	12	35	41	104	262	476	398	369	353	369	360	349
H 211927	80	117	86	240	471	352	613	223	325	248	416	498
H 211928	83	27	120	51	229	340	323	378	310	424	449	221
H 211929	7	51	47	48	250	334	333	375	267	333	305	128
H 211930	80	25	41	204	345	177	317	164	315	222	219	94
H 211931	81	36	146	39	493	357	293	246	386	431	818	253
H 211932	92	8	42	158	311	271	198	328	305	564	644	240
H 211933	125	22	57	82	369	324	430	305	311	178	461	237
H 211934	34	4	27	77	417	252	305	256	309	391	433	205
H 211935	76	64	22	64	396	346	585	409	298	328	1093	396
H 211936	65	18	7	82	420	197	308	309	367	376	349	74
H 211937	154	30	22	60	302	288	338	284	374	381	504	500
H 211938	37	51	30	209	665	411	281	494	329	309	286	496
H 211939	27	1	28	15	138	352	162	332	372	341	485	213
H 211940	72	35	18	58	256	199	233	308	282	316	358	70
H 211941	41	120	86	78	313	377	277	291	324	550	365	82
H 211942	30	19	73	97	310	334	230	319	307	415	190	268
H 211943	87	63	49	118	346	348	210	292	384	331	241	441
H 211944	42	29	23	213	271	320	287	442	274	498	268	369
H 211945	29	11	10	111	309	360	435	442	218	238	310	238
H 211946	18	11	21	36	349	330	429	195	377	257	218	259
H 211947	8	32	16	81	120	318	215	320	245	269	234	238
H 211948	30	8	10	33	209	264	422	234	236	284	364	93
H 211949	9	12	14	63	245	488	367	324	322	364	374	110
H 211950	17	41	10	137	325	372	536	386	263	188	354	354
H 211951	33	164	14	162	327	219	258	383	361	361	259	158
H 211952	40	8	2	114	333	311	392	371	438	520	234	432
H 211953	238	42	59	108	413	161	297	238	197	375	359	204
H 211954	32	70	32	75	392	383	423	346	382	309	459	258
H 211955	265	27	75	22	174	291	348	470	254	240	607	220
H 211956	238	88	105	134	464	307	437	312	276	339	433	163
H 211957	24	34	7	25	233	191	166	191	193	387	415	155
H 211958	123	56	63	37	288	338	369	274	310	242	321	114
H 211959	21	10	7	85	190	368	231	330	416	358	306	454

H 211960	111	23	56	243	461	267	372	317	266	336	301	545
H 211961	30	8	16	160	244	512	242	319	355	340	239	159
H 211962	58	16	28	113	359	217	291	338	267	369	310	235
H 211963	129	74	19	277	345	392	403	455	301	218	279	66
H 211964	4	15	14	122	190	398	364	383	266	416	398	104
H 211965	43	11	8	29	293	252	231	280	347	388	469	248
H 211966	88	21	36	286	381	263	322	343	390	418	577	444
H 211967	51	32	54	247	268	525	392	293	329	363	423	232
H 211968	9	66	75	46	348	308	285	306	233	453	323	133
H 211969	65	22	70	132	309	157	270	360	365	189	294	367
H 211970	384	89	68	291	457	202	300	389	347	297	356	418
H 211971	79	31	118	12	346	394	430	353	325	367	333	51
H 211972	296	40	21	232	306	370	159	204	293	357	240	120
H 211973	43	27	8	21	294	271	341	306	296	358	517	205
H 211974	32	156	35	56	166	313	258	210	346	325	330	100
H 211975	26	25	24	36	411	381	406	343	298	556	353	335
H 211976	42	29	38	123	203	199	72	233	323	257	214	32
H 211977	81	11	22	40	235	221	189	370	291	447	277	122
H 211978	30	57	64	277	401	345	329	332	296	307	357	104
H 211979	9	28	29	238	186	227	376	252	192	308	405	331
H 211980	118	95	24	55	254	340	203	322	225	301	333	235
H 211981	177	54	69	620	304	355	362	296	204	260	299	301
H 211982	81	19	12	100	196	268	320	186	256	428	137	57
H 211983	30	24	29	163	310	236	173	226	409	475	345	485
H 211984	45	58	11	20	196	325	305	467	228	377	317	88
H 211985	63	27	69	53	203	366	280	206	383	281	201	322
H 211986	62	10	48	248	299	334	146	224	339	492	295	72
H 211987	43	57	12	416	514	309	423	359	411	442	497	179
H 211988	20	117	44	58	401	317	528	449	353	517	321	125
H 211989	64	128	18	30	184	286	414	348	238	373	396	210
H 211990	78	13	52	45	326	152	274	352	353	561	282	218
H 211991	30	48	70	120	362	259	285	246	393	304	437	95
H 211992	35	20	25	173	523	405	299	426	300	329	272	158
H 211993	97	14	180	267	313	561	220	197	434	426	262	146
H 211994	39	37	85	44	416	404	255	348	251	363	511	91
H 211995	95	11	49	104	301	479	418	380	282	295	364	345
H 211996	383	127	109	202	454	394	248	367	305	328	536	325
H 211997	32	57	17	86	300	271	153	144	267	262	271	31
H 211998	33	25	32	150	407	302	400	379	394	300	370	391
H 211999	92	151	96	216	367	492	399	352	340	329	411	815
H 212000	133	43	41	126	301	461	246	433	341	482	252	660

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MADDEN LAKE
BASIN AVERAGE MONTHLY RAINFALL IN MM
ESTIMATED BY MWH

IYRA	IMNTH	IANAL	MXRCS	NYRG	NYMXG	NPASS	IPCHQ	IPCHS	NSTA	NCOMB	NTNDM	NCSTY	IGNRL	NPROJ	IYRPJ	MTHPJ	LYRPJ
1911		1	90	1000	100	1	0	0	0	0	0	0	0	0	0	0	0

MAXIMUM VOLUMES OF RECORDED FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	384.0	168.0	180.0	620.0	665.0	561.0	613.0	494.0	496.0	654.0	1093.0	815.0	1093.0	3109.0	15383.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	2.0	1.0	2.0	12.0	120.0	152.0	72.0	144.0	192.0	178.0	137.0	31.0	1.0	400.0	10206.

STA AVERAGE MONTHLY FLOW IS
21 236.41

FREQUENCY STATISTICS

STA	ITEM	1	2	3	4	5	6	7	8	9	10	11	12
21	MEAN	1.700	1.509	1.479	1.994	2.485	2.499	2.479	2.492	2.498	2.551	2.538	2.269
	STD DEV	0.400	0.383	0.361	0.354	0.136	0.119	0.164	0.113	0.087	0.114	0.138	0.300
	SKEW	-0.365	-0.498	-0.270	-0.272	-0.363	-0.442	-0.857	-0.521	-0.251	-0.263	0.566	-0.344
	INCRMT	0.73	0.45	0.41	1.32	3.17	3.24	3.18	3.17	3.18	3.64	3.60	2.28
	YEARS	90	90	90	90	90	90	90	90	90	90	90	90

C-36

RAW CORRELATION COEFFICIENTS FOR MONTH 1

STA 21 WITH CURRENT MONTH
21 1.000 WITH PRECEDING MONTH AT ABOVE STATION
21 0.211

RAW CORRELATION COEFFICIENTS FOR MONTH 2

STA 21 WITH CURRENT MONTH
21 1.000 WITH PRECEDING MONTH AT ABOVE STATION
21 0.229

RAW CORRELATION COEFFICIENTS FOR MONTH 3

STA 21 WITH CURRENT MONTH

21 1.000
WITH PRECEDING MONTH AT ABOVE STATION
21 0.265

RAW CORRELATION COEFFICIENTS FOR MONTH 4

STA 21
WITH CURRENT MONTH
21 1.000
WITH PRECEDING MONTH AT ABOVE STATION
21 0.138

RAW CORRELATION COEFFICIENTS FOR MONTH 5

STA 21
WITH CURRENT MONTH
21 1.000
WITH PRECEDING MONTH AT ABOVE STATION
21 0.289

RAW CORRELATION COEFFICIENTS FOR MONTH 6

STA 21
WITH CURRENT MONTH
21 1.000
WITH PRECEDING MONTH AT ABOVE STATION
21 0.019

G-37

RAW CORRELATION COEFFICIENTS FOR MONTH 7

STA 21
WITH CURRENT MONTH
21 1.000
WITH PRECEDING MONTH AT ABOVE STATION
21 0.230

RAW CORRELATION COEFFICIENTS FOR MONTH 8

STA 21
WITH CURRENT MONTH
21 1.000
WITH PRECEDING MONTH AT ABOVE STATION
21 0.363

RAW CORRELATION COEFFICIENTS FOR MONTH 9

STA 21
WITH CURRENT MONTH

21 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 21 0.047

RAW CORRELATION COEFFICIENTS FOR MONTH 10

STA 21
 WITH CURRENT MONTH
 21 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 21 0.149

RAW CORRELATION COEFFICIENTS FOR MONTH 11

STA 21
 WITH CURRENT MONTH
 21 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 21 -0.001

RAW CORRELATION COEFFICIENTS FOR MONTH 12

STA 21
 WITH CURRENT MONTH
 21 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 21 0.250

¹
 1. RECORDED AND RECONSTITUTED FLOWS

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	1911	54.00	75.00	36.00	169.00	397.00	245.00	129.00	190.00	318.00	523.00	307.00	83.00	2526
21	1912	49.00	30.00	5.00	83.00	268.00	299.00	241.00	261.00	266.00	409.00	407.00	126.00	2444
21	1913	41.00	30.00	13.00	20.00	414.00	340.00	244.00	288.00	355.00	322.00	301.00	148.00	2516
21	1914	17.00	20.00	37.00	68.00	209.00	289.00	131.00	325.00	496.00	400.00	355.00	146.00	2493
21	1915	19.00	168.00	42.00	349.00	229.00	403.00	502.00	333.00	265.00	375.00	463.00	223.00	3371
21	1916	45.00	72.00	17.00	288.00	286.00	269.00	417.00	260.00	299.00	442.00	303.00	102.00	2800
21	1917	2.00	4.00	14.00	53.00	319.00	297.00	437.00	384.00	309.00	259.00	529.00	187.00	2794
21	1918	105.00	42.00	40.00	184.00	411.00	405.00	321.00	231.00	310.00	354.00	233.00	33.00	2669
21	1919	100.00	40.00	17.00	339.00	198.00	218.00	253.00	319.00	427.00	332.00	261.00	199.00	2703
21	1920	50.00	23.00	49.00	103.00	261.00	306.00	492.00	332.00	265.00	443.00	289.00	56.00	2669
21	1921	29.00	74.00	26.00	207.00	292.00	349.00	390.00	469.00	455.00	496.00	278.00	268.00	3333
21	1922	168.00	51.00	34.00	98.00	399.00	344.00	125.00	219.00	265.00	344.00	345.00	300.00	2692
21	1923	49.00	36.00	12.00	47.00	232.00	342.00	251.00	226.00	335.00	654.00	274.00	139.00	2597
21	1924	42.00	66.00	14.00	193.00	363.00	280.00	505.00	416.00	423.00	215.00	241.00	84.00	2842
21	1925	96.00	25.00	9.00	144.00	201.00	465.00	373.00	260.00	288.00	460.00	260.00	162.00	2743
21	1926	12.00	35.00	41.00	104.00	262.00	476.00	398.00	369.00	353.00	369.00	360.00	349.00	3128
21	1927	80.00	117.00	86.00	240.00	471.00	352.00	613.00	223.00	325.00	248.00	416.00	498.00	3669
21	1928	83.00	27.00	120.00	51.00	229.00	340.00	323.00	378.00	310.00	424.00	449.00	221.00	2955
21	1929	7.00	51.00	47.00	48.00	250.00	334.00	333.00	375.00	267.00	333.00	305.00	128.00	2478
21	1930	80.00	25.00	41.00	204.00	345.00	177.00	317.00	164.00	315.00	222.00	219.00	94.00	2203

21	1931	81.00	36.00	146.00	39.00	493.00	357.00	293.00	246.00	386.00	431.00	818.00	253.00	3579
21	1932	92.00	8.00	42.00	158.00	311.00	271.00	198.00	328.00	305.00	564.00	644.00	240.00	3161
21	1933	125.00	22.00	57.00	82.00	369.00	324.00	430.00	305.00	311.00	178.00	461.00	237.00	2901
21	1934	34.00	4.00	27.00	77.00	417.00	252.00	305.00	256.00	309.00	391.00	433.00	205.00	2710
21	1935	76.00	64.00	22.00	64.00	396.00	346.00	585.00	409.00	298.00	328.00	1093.00	396.00	4077
21	1936	65.00	18.00	7.00	82.00	420.00	197.00	308.00	309.00	367.00	376.00	349.00	74.00	2572
21	1937	154.00	30.00	22.00	60.00	302.00	288.00	338.00	284.00	374.00	381.00	504.00	500.00	3237
21	1938	37.00	51.00	30.00	209.00	665.00	411.00	281.00	494.00	329.00	309.00	286.00	496.00	3598
21	1939	27.00	1.00	28.00	15.00	138.00	352.00	162.00	332.00	372.00	341.00	485.00	213.00	2466
21	1940	72.00	35.00	18.00	58.00	256.00	199.00	233.00	308.00	282.00	316.00	358.00	70.00	2205
21	1941	41.00	120.00	86.00	78.00	313.00	377.00	277.00	291.00	324.00	550.00	365.00	82.00	2904
21	1942	30.00	19.00	73.00	97.00	310.00	334.00	230.00	319.00	307.00	415.00	190.00	268.00	2592
21	1943	87.00	63.00	49.00	118.00	346.00	348.00	210.00	292.00	384.00	331.00	241.00	441.00	2910
21	1944	42.00	29.00	23.00	213.00	271.00	320.00	287.00	442.00	274.00	498.00	268.00	369.00	3036
21	1945	29.00	11.00	10.00	111.00	309.00	360.00	435.00	442.00	218.00	238.00	310.00	238.00	2711
21	1946	18.00	11.00	21.00	36.00	349.00	330.00	429.00	195.00	377.00	257.00	218.00	259.00	2500
21	1947	8.00	32.00	16.00	81.00	120.00	318.00	215.00	320.00	245.00	269.00	234.00	238.00	2096
21	1948	30.00	8.00	10.00	33.00	209.00	264.00	422.00	234.00	236.00	284.00	364.00	93.00	2187
21	1949	9.00	12.00	14.00	63.00	245.00	488.00	367.00	324.00	322.00	364.00	374.00	110.00	2692
21	1950	17.00	41.00	10.00	137.00	325.00	372.00	536.00	386.00	263.00	188.00	354.00	354.00	2983
21	1951	33.00	164.00	14.00	162.00	327.00	219.00	258.00	383.00	361.00	361.00	259.00	158.00	2699
21	1952	40.00	8.00	2.00	114.00	333.00	311.00	392.00	371.00	438.00	520.00	234.00	432.00	3195
21	1953	238.00	42.00	59.00	108.00	413.00	161.00	297.00	238.00	197.00	375.00	359.00	204.00	2691
21	1954	32.00	70.00	32.00	75.00	392.00	383.00	423.00	346.00	382.00	309.00	459.00	258.00	3161
21	1955	265.00	27.00	75.00	22.00	174.00	291.00	348.00	470.00	254.00	240.00	607.00	220.00	2993
21	1956	238.00	88.00	105.00	134.00	464.00	307.00	437.00	312.00	276.00	339.00	433.00	163.00	3296
21	1957	24.00	34.00	7.00	25.00	233.00	191.00	166.00	191.00	193.00	387.00	415.00	155.00	2021
21	1958	123.00	56.00	63.00	37.00	288.00	338.00	369.00	274.00	310.00	242.00	321.00	114.00	2535
21	1959	21.00	10.00	7.00	85.00	190.00	368.00	231.00	330.00	416.00	358.00	306.00	454.00	2776
21	1960	111.00	23.00	56.00	243.00	461.00	267.00	372.00	317.00	266.00	336.00	301.00	545.00	3298
21	1961	30.00	8.00	16.00	160.00	244.00	512.00	242.00	319.00	355.00	340.00	239.00	159.00	2624
21	1962	58.00	16.00	28.00	113.00	359.00	217.00	291.00	338.00	267.00	369.00	310.00	235.00	2601
21	1963	129.00	74.00	19.00	277.00	345.00	392.00	403.00	455.00	301.00	218.00	279.00	66.00	2958
21	1964	4.00	15.00	14.00	122.00	190.00	398.00	364.00	383.00	266.00	416.00	398.00	104.00	2674
21	1965	43.00	11.00	8.00	29.00	293.00	252.00	231.00	280.00	347.00	388.00	469.00	248.00	2599
21	1966	88.00	21.00	36.00	286.00	381.00	263.00	322.00	343.00	390.00	418.00	577.00	444.00	3569
21	1967	51.00	32.00	54.00	247.00	268.00	525.00	392.00	293.00	329.00	363.00	423.00	232.00	3209
21	1968	9.00	66.00	75.00	46.00	348.00	308.00	285.00	306.00	233.00	453.00	323.00	133.00	2585
21	1969	65.00	22.00	70.00	132.00	309.00	157.00	270.00	360.00	365.00	189.00	294.00	367.00	2600
21	1970	384.00	89.00	68.00	291.00	457.00	202.00	300.00	389.00	347.00	297.00	356.00	418.00	3598
21	1971	79.00	31.00	118.00	12.00	346.00	394.00	430.00	353.00	325.00	367.00	333.00	51.00	2839
21	1972	296.00	40.00	21.00	232.00	306.00	370.00	159.00	204.00	293.00	357.00	240.00	120.00	2638
21	1973	43.00	27.00	8.00	21.00	294.00	271.00	341.00	306.00	296.00	358.00	517.00	205.00	2687
21	1974	32.00	156.00	35.00	56.00	166.00	313.00	258.00	210.00	346.00	325.00	330.00	100.00	2327
21	1975	26.00	25.00	24.00	36.00	411.00	381.00	406.00	343.00	298.00	556.00	353.00	335.00	3194
21	1976	42.00	29.00	38.00	123.00	203.00	199.00	72.00	233.00	323.00	257.00	214.00	32.00	1765
21	1977	81.00	11.00	22.00	40.00	235.00	221.00	189.00	370.00	291.00	447.00	277.00	122.00	2306
21	1978	30.00	57.00	64.00	277.00	401.00	345.00	329.00	332.00	296.00	307.00	357.00	104.00	2899
21	1979	9.00	28.00	29.00	238.00	186.00	227.00	376.00	252.00	192.00	308.00	405.00	331.00	2581
21	1980	118.00	95.00	24.00	55.00	254.00	340.00	203.00	322.00	225.00	301.00	333.00	235.00	2505
21	1981	177.00	54.00	69.00	620.00	304.00	355.00	362.00	296.00	204.00	260.00	299.00	301.00	3301
21	1982	81.00	19.00	12.00	100.00	196.00	268.00	320.00	186.00	256.00	428.00	137.00	57.00	2060
21	1983	30.00	24.00	29.00	163.00	310.00	236.00	173.00	226.00	409.00	475.00	345.00	485.00	2905
21	1984	45.00	58.00	11.00	20.00	196.00	325.00	305.00	467.00	228.00	377.00	317.00	88.00	2437

21	1985	63.00	27.00	69.00	53.00	203.00	366.00	280.00	206.00	383.00	281.00	201.00	322.00	2454
21	1986	62.00	10.00	48.00	248.00	299.00	334.00	146.00	224.00	339.00	492.00	295.00	72.00	2569
21	1987	43.00	57.00	12.00	416.00	514.00	309.00	423.00	359.00	411.00	442.00	497.00	179.00	3662
21	1988	20.00	117.00	44.00	58.00	401.00	317.00	528.00	449.00	353.00	517.00	321.00	125.00	3250
21	1989	64.00	128.00	18.00	30.00	184.00	286.00	414.00	348.00	238.00	373.00	396.00	210.00	2689
21	1990	78.00	13.00	52.00	45.00	326.00	152.00	274.00	352.00	353.00	561.00	282.00	218.00	2706
21	1991	30.00	48.00	70.00	120.00	362.00	259.00	285.00	246.00	393.00	304.00	437.00	95.00	2649
21	1992	35.00	20.00	25.00	173.00	523.00	405.00	299.00	426.00	300.00	329.00	272.00	158.00	2965
21	1993	97.00	14.00	180.00	267.00	313.00	561.00	220.00	197.00	434.00	426.00	262.00	146.00	3117
21	1994	39.00	37.00	85.00	44.00	416.00	404.00	255.00	348.00	251.00	363.00	511.00	91.00	2844
21	1995	95.00	11.00	49.00	104.00	301.00	479.00	418.00	380.00	282.00	295.00	364.00	345.00	3123
21	1996	383.00	127.00	109.00	202.00	454.00	394.00	248.00	367.00	305.00	328.00	536.00	325.00	3778
21	1997	32.00	57.00	17.00	86.00	300.00	271.00	153.00	144.00	267.00	262.00	271.00	31.00	1891
21	1998	33.00	25.00	32.00	150.00	407.00	302.00	400.00	379.00	394.00	300.00	370.00	391.00	3183
21	1999	92.00	151.00	96.00	216.00	367.00	492.00	399.00	352.00	340.00	329.00	411.00	815.00	4060
21	2000	133.00	43.00	41.00	126.00	301.00	461.00	246.00	433.00	341.00	482.00	252.00	660.00	3519

1
GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 1

STA	21	MONTH 1	MEAN-0.006	STD DEVO.061
STA	21	MONTH 2	MEAN 0.002	STD DEVO.057
STA	21	MONTH 3	MEAN 0.006	STD DEVO.061
STA	21	MONTH 4	MEAN 0.011	STD DEVO.054
STA	21	MONTH 5	MEAN-0.005	STD DEVO.067
STA	21	MONTH 6	MEAN 0.000	STD DEVO.067
STA	21	MONTH 7	MEAN-0.009	STD DEVO.067
STA	21	MONTH 8	MEAN-0.005	STD DEVO.064
STA	21	MONTH 9	MEAN-0.004	STD DEVO.064
STA	21	MONTH 10	MEAN-0.006	STD DEVO.058
STA	21	MONTH 11	MEAN-0.003	STD DEVO.067
STA	21	MONTH 12	MEAN 0.001	STD DEVO.063

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	1	149.3	14.6	5.1	274.2	528.0	372.8	221.0	338.9	350.9	360.0	575.2	266.3	3456.0
21	2	39.8	58.3	74.3	66.3	375.6	289.7	259.2	356.5	386.3	418.8	307.1	172.7	2804.0
21	3	44.7	11.6	12.8	334.8	679.9	297.7	400.9	342.2	347.9	349.3	300.5	218.5	3342.0
21	4	4.7	25.8	34.0	66.1	337.9	332.8	111.5	263.3	203.6	247.3	335.3	145.9	2108.0
21	5	59.0	44.8	74.5	90.6	455.3	469.2	404.1	387.4	299.1	362.1	252.0	138.3	3036.0
21	6	43.1	15.0	47.0	257.7	287.8	174.4	223.6	290.1	297.9	428.0	443.6	394.0	2903.0
21	7	42.1	1.7	2.1	42.7	284.9	248.3	218.0	418.5	423.4	641.3	584.1	151.5	3057.0
21	8	116.3	83.1	171.9	158.7	167.4	301.7	250.5	281.7	252.0	366.0	450.5	167.9	2768.0
21	9	81.4	49.6	10.7	56.7	273.0	246.5	356.2	354.6	436.3	340.0	389.1	427.1	3022.0
21	10	68.0	11.8	16.5	61.4	214.2	472.0	365.2	282.5	339.8	290.1	363.5	98.1	2582.0
21	11	42.3	53.9	100.1	314.7	402.1	254.4	348.5	224.9	349.1	303.9	372.7	655.4	3421.0
21	12	78.1	23.0	67.6	463.8	235.3	132.7	164.1	294.6	309.1	471.3	634.8	120.9	2996.0
21	13	12.9	5.7	20.2	221.4	280.7	399.4	405.5	359.6	291.9	254.2	283.5	212.4	2747.0
21	14	88.9	36.2	16.5	192.4	323.4	420.1	366.9	239.4	382.9	385.1	305.6	138.5	2895.0
21	15	32.3	13.6	53.8	91.3	430.2	350.7	188.9	201.5	345.7	516.7	283.7	107.9	2617.0
21	16	180.5	122.5	62.2	128.4	497.2	295.5	337.7	241.9	262.9	464.9	431.0	347.8	3372.0
21	17	136.2	23.2	39.0	21.6	229.9	512.6	367.9	320.3	380.5	400.3	280.7	57.3	2769.0
21	18	54.7	40.8	13.0	153.2	392.6	245.2	197.7	312.7	438.6	445.4	271.7	606.7	3174.0
21	19	68.2	39.6	26.3	291.1	428.6	396.4	226.8	163.6	296.3	348.1	279.3	33.6	2598.0
21	20	40.1	31.4	21.5	156.8	372.8	349.4	145.5	351.7	387.1	396.9	197.8	248.7	2700.0
21	21	51.4	90.5	16.4	78.7	270.4	297.3	120.9	282.6	314.7	354.8	610.2	168.8	2657.0
21	22	43.2	46.9	2.3	62.5	379.1	359.9	203.2	401.1	403.5	528.6	473.8	305.8	3209.0

21	23	49.9	29.9	65.4	216.3	385.0	220.2	351.4	321.5	438.8	253.3	176.9	226.7	2734.0
21	24	74.2	107.8	112.1	18.4	182.1	169.4	348.3	316.4	351.6	450.2	216.5	76.8	2422.0
21	25	36.5	33.6	20.9	38.7	324.6	216.6	222.2	181.3	350.3	256.7	309.9	158.5	2151.0
21	26	15.1	10.0	43.1	122.8	357.7	202.3	186.9	289.9	315.3	406.1	245.5	195.1	2389.0
21	27	18.9	21.8	14.6	33.2	346.9	227.5	381.4	425.4	277.9	355.9	277.7	219.4	2601.0
21	28	59.4	74.9	15.7	68.6	278.5	233.2	212.6	199.0	182.2	219.9	290.9	137.7	1974.0
21	29	102.8	69.5	16.5	94.4	440.3	417.7	154.2	270.7	276.9	392.8	325.8	83.5	2646.0
21	30	27.1	24.8	31.0	197.1	329.6	342.3	465.6	265.2	370.0	481.4	290.5	290.7	3115.0
21	31	114.0	58.5	30.6	36.1	73.5	154.2	342.5	252.6	309.4	271.5	585.0	288.9	2515.0
21	32	9.9	33.5	72.5	22.1	133.9	228.3	297.9	315.5	331.2	318.5	390.3	372.3	2523.0
21	33	178.8	59.5	37.1	613.2	442.1	270.0	206.7	187.3	251.9	409.3	345.7	370.6	3372.0
21	34	46.6	83.7	43.7	217.8	184.5	381.3	420.4	365.4	378.1	424.6	479.2	146.4	3172.0
21	35	116.6	41.9	102.8	89.3	383.8	516.9	484.8	458.0	234.7	280.7	385.5	100.1	3196.0
21	36	88.4	105.9	53.3	169.0	246.3	288.5	155.1	294.0	287.4	263.6	590.1	124.9	2666.0
21	37	24.9	30.1	27.3	119.4	323.6	281.5	123.6	237.5	399.7	408.4	887.6	244.4	3107.0
21	38	107.0	17.3	12.9	17.1	368.5	298.0	269.7	314.3	301.1	493.0	335.8	521.8	3057.0
21	39	15.3	51.9	71.1	36.7	265.3	322.2	290.7	300.4	223.7	193.6	199.3	117.2	2087.0
21	40	14.3	31.4	11.0	211.5	362.9	336.0	333.4	448.3	377.4	456.3	321.1	233.9	3135.0
21	41	44.3	3.0	5.3	420.6	451.2	464.2	373.0	416.6	295.5	434.5	411.3	50.2	3369.0
21	42	66.7	42.2	133.2	53.5	275.3	438.9	221.3	405.5	277.0	457.4	506.8	184.2	3061.0
21	43	98.3	18.9	15.8	116.4	301.7	286.2	241.2	318.4	353.0	471.6	582.9	156.6	2961.0
21	44	243.6	58.6	35.2	68.1	290.5	323.2	375.7	335.7	312.0	479.8	425.8	329.6	3279.0
21	45	31.0	20.1	45.2	167.0	387.4	370.7	172.1	190.5	261.1	515.1	377.6	175.1	2713.0
21	46	85.9	25.6	20.2	52.5	435.8	385.2	363.5	270.7	399.6	496.4	513.3	216.9	3266.0
21	47	21.1	16.2	31.2	76.3	311.6	371.7	278.0	201.7	294.5	310.2	225.3	72.8	2210.0
21	48	239.6	8.7	12.5	50.2	314.0	271.9	324.5	233.4	300.3	255.7	382.7	202.3	2597.0
21	49	29.7	17.3	9.9	154.4	479.9	275.4	280.4	284.8	239.3	289.3	309.4	377.1	2745.0
21	50	48.1	85.0	47.4	75.8	270.8	227.5	78.8	257.4	216.0	244.9	467.3	587.8	2607.0
21	51	422.0	88.0	11.6	344.9	278.9	330.5	332.2	260.9	382.0	238.4	266.1	99.9	3056.0
21	52	55.4	7.3	52.4	27.5	300.6	450.5	400.9	288.0	265.1	416.4	311.1	112.9	2687.0
21	53	55.2	53.6	52.6	74.2	311.7	219.7	492.5	459.5	301.9	218.5	258.7	316.6	2816.0
21	54	118.5	33.1	39.0	87.7	320.7	192.1	257.4	291.4	289.8	409.6	233.9	111.1	2385.0
21	55	145.8	176.3	27.8	139.0	253.4	339.2	398.7	285.5	319.5	337.7	189.5	213.7	2828.0
21	56	98.3	10.8	50.9	64.4	198.5	268.0	352.6	186.6	370.7	179.2	258.1	186.3	2225.0
21	57	16.5	99.2	46.4	131.5	194.2	261.1	181.2	375.5	226.1	289.5	255.1	133.0	2209.0
21	58	51.3	65.3	74.2	64.7	292.5	314.3	321.5	431.3	254.6	309.0	480.7	230.6	2889.0
21	59	43.4	94.3	22.9	282.6	410.9	496.2	548.4	350.5	250.2	308.7	522.5	338.7	3669.0
21	60	64.0	108.9	40.5	10.3	231.3	442.8	232.7	265.3	297.4	318.7	434.2	109.9	2555.0
21	61	5.0	6.1	62.9	136.9	323.6	420.3	433.6	308.5	289.0	406.1	303.2	785.3	3480.0
21	62	26.9	36.0	35.3	173.6	213.0	283.1	285.4	245.2	351.9	553.1	219.7	38.1	2461.0
21	63	56.3	27.2	102.5	81.7	274.1	372.5	282.6	180.1	308.1	356.7	257.8	339.3	2640.0
21	64	38.0	65.1	90.8	156.3	369.8	264.4	241.4	347.1	308.0	363.7	318.9	108.8	2672.0
21	65	42.8	14.4	62.1	57.5	237.1	403.6	339.5	261.6	292.3	491.3	335.2	167.2	2705.0
21	66	144.0	42.6	44.8	138.2	152.5	312.5	507.6	421.3	291.5	466.2	357.1	121.7	3001.0
21	67	11.9	12.8	55.0	56.3	453.1	293.0	260.7	325.4	377.9	496.7	379.4	47.6	2770.0
21	68	4.9	5.3	14.5	156.6	484.3	390.4	354.4	187.5	292.4	365.9	278.2	208.6	2743.0
21	69	23.6	54.0	7.9	376.8	440.4	315.6	305.4	460.9	474.3	315.4	661.5	750.8	4187.0
21	70	160.4	160.0	8.3	49.1	258.9	214.1	213.7	180.5	255.3	288.9	315.7	171.0	2275.0
21	71	75.2	66.8	69.9	371.0	333.0	314.3	561.6	448.8	289.8	271.6	257.8	226.3	3287.0
21	72	42.2	4.2	46.0	145.5	437.4	464.1	355.3	309.7	265.2	292.4	314.7	83.4	2758.0
21	73	198.5	32.5	33.7	119.1	368.7	274.0	379.8	446.8	343.5	300.0	379.3	200.8	3078.0
21	74	303.5	76.6	42.5	104.2	281.1	279.4	371.1	213.8	280.1	315.3	213.5	290.8	2772.0
21	75	54.9	52.5	35.8	26.2	349.5	368.3	530.6	383.0	238.3	392.7	317.9	258.2	3008.0
21	76	87.3	11.5	34.8	119.0	312.6	406.3	277.8	328.5	339.4	227.5	558.0	625.5	3326.0

21	77	75.2	37.7	29.0	367.8	431.1	189.3	294.5	335.0	370.2	579.1	422.7	123.3	3254.0
21	78	21.6	29.8	74.5	115.9	327.6	306.3	506.2	380.6	354.3	271.8	474.1	212.2	3076.0
21	79	31.9	45.3	20.2	149.4	285.2	278.6	308.7	428.0	476.8	510.5	525.1	317.6	3377.0
21	80	32.5	37.7	26.4	43.6	269.8	314.0	441.4	373.7	286.4	189.9	402.3	494.0	2912.0
21	81	7.5	33.7	6.6	225.4	214.8	363.3	382.6	326.7	336.5	296.7	255.2	48.5	2499.0
21	82	18.3	38.6	40.7	50.3	268.3	268.3	376.3	316.9	332.8	363.1	331.2	103.6	2508.0
21	83	43.0	9.5	52.3	44.0	307.2	233.8	351.5	362.2	225.3	371.1	279.1	286.7	2565.0
21	84	7.1	12.5	76.1	70.1	232.6	342.6	348.6	374.2	358.6	363.2	389.0	235.3	2810.0
21	85	32.5	122.7	54.1	56.1	352.2	324.8	495.5	349.2	256.3	286.5	445.8	445.9	3222.0
21	86	81.8	92.3	34.2	171.4	305.7	517.6	532.7	408.7	301.1	382.4	259.7	73.4	3161.0
21	87	24.8	61.0	39.2	57.4	338.3	405.7	450.7	365.4	366.9	293.4	250.2	59.2	2711.0
21	88	58.6	28.2	34.2	50.7	272.8	454.0	247.7	151.4	178.7	298.5	273.3	258.5	2306.0
21	89	149.3	38.3	2.1	59.1	227.5	288.0	299.6	336.7	346.1	308.1	556.7	314.4	2925.0
21	90	100.5	40.1	29.7	65.0	270.6	403.4	477.5	376.0	327.5	415.9	247.9	54.2	2809.0
21	91	28.2	74.2	12.9	78.2	211.6	224.9	274.0	437.0	381.7	224.6	252.4	260.1	2460.0
21	92	83.2	26.1	21.0	144.1	454.2	377.1	250.5	305.2	258.8	273.2	355.3	207.5	2754.0
21	93	8.9	5.9	34.4	116.0	352.7	353.7	280.3	316.1	321.0	335.5	248.5	139.9	2513.0
21	94	74.5	48.8	94.5	28.7	190.2	434.4	280.8	242.4	234.4	302.5	314.3	448.0	2692.0
21	95	141.8	111.0	27.1	105.9	185.9	338.1	517.4	421.8	251.2	422.1	363.4	249.7	3135.0
21	96	326.1	32.0	18.6	65.4	289.1	290.4	364.6	396.0	238.3	333.6	290.2	398.6	3043.0
21	97	27.9	42.5	17.7	25.2	240.5	245.5	406.1	320.1	453.5	466.0	349.8	248.4	2843.0
21	98	21.0	16.0	5.0	223.2	339.4	404.6	366.5	337.1	396.7	393.2	239.6	127.5	2869.0
21	99	25.3	4.0	41.4	352.3	290.9	253.7	394.5	512.2	362.4	521.4	220.9	24.0	3001.0
21	100	23.7	35.9	31.5	35.6	200.5	350.1	147.1	261.7	296.8	317.7	294.4	84.8	2080.0

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MAXIMUM VOLUMES FOR PERIOD 1 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	422.0	176.3	171.9	613.2	679.9	517.6	561.6	512.2	476.8	641.3	887.6	785.3	887.6	2968.2	15206.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	4.7	1.7	2.1	10.3	73.5	132.7	78.8	151.4	178.7	179.2	176.9	24.0	1.7	351.1	9689.
STA 21 MONTH 1 MEAN	72.53	VARIANCE	5078.37	STAN. DEV.	71.26										
STA 21 MONTH 2 MEAN	44.17	VARIANCE	1230.84	STAN. DEV.	35.08										
STA 21 MONTH 3 MEAN	39.82	VARIANCE	922.66	STAN. DEV.	30.38										
STA 21 MONTH 4 MEAN	133.02	VARIANCE	12639.33	STAN. DEV.	112.42										
STA 21 MONTH 5 MEAN	315.34	VARIANCE	10035.20	STAN. DEV.	100.18										
STA 21 MONTH 6 MEAN	320.42	VARIANCE	8478.23	STAN. DEV.	92.08										
STA 21 MONTH 7 MEAN	317.06	VARIANCE	12559.46	STAN. DEV.	112.07										
STA 21 MONTH 8 MEAN	314.83	VARIANCE	7316.96	STAN. DEV.	85.54										
STA 21 MONTH 9 MEAN	314.75	VARIANCE	5003.62	STAN. DEV.	70.74										
STA 21 MONTH 10 MEAN	360.95	VARIANCE	10397.52	STAN. DEV.	101.97										
STA 21 MONTH 11 MEAN	357.06	VARIANCE	17062.07	STAN. DEV.	130.62										
STA 21 MONTH 12 MEAN	228.52	VARIANCE	24982.59	STAN. DEV.	158.06										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 2

STA 21 MONTH 1 MEAN	0.005	STD DEVO.063
STA 21 MONTH 2 MEAN	0.009	STD DEVO.053
STA 21 MONTH 3 MEAN	-0.007	STD DEVO.063
STA 21 MONTH 4 MEAN	-0.012	STD DEVO.066
STA 21 MONTH 5 MEAN	0.003	STD DEVO.063
STA 21 MONTH 6 MEAN	-0.003	STD DEVO.068
STA 21 MONTH 7 MEAN	-0.001	STD DEVO.064

STA	21	MONTH	8	MEAN	0.003	STD	DEVO	0.060
STA	21	MONTH	9	MEAN	-0.001	STD	DEVO	0.066
STA	21	MONTH	10	MEAN	0.003	STD	DEVO	0.069
STA	21	MONTH	11	MEAN	0.003	STD	DEVO	0.060
STA	21	MONTH	12	MEAN	0.011	STD	DEVO	0.073

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	101	9.1	53.8	61.1	66.5	363.7	206.0	353.6	251.8	355.8	366.2	554.8	235.4	2879.0
21	102	104.0	41.4	9.9	109.5	521.5	515.9	314.9	252.4	298.1	369.1	456.7	212.7	3206.0
21	103	68.6	11.3	44.7	311.3	224.4	188.1	255.8	167.9	350.8	477.9	232.4	297.8	2631.0
21	104	157.7	75.6	24.0	95.0	346.7	259.8	437.7	396.1	233.8	291.9	425.5	279.1	3025.0
21	105	71.6	13.9	27.9	40.2	161.5	266.6	177.9	267.2	256.3	288.8	613.1	555.6	2741.0
21	106	70.7	118.3	60.5	136.9	405.6	282.2	196.4	332.2	258.6	240.9	335.1	249.2	2687.0
21	107	21.3	23.3	3.6	46.1	229.8	406.7	483.1	461.3	257.2	224.1	310.1	102.3	2568.0
21	108	42.5	113.3	43.3	49.1	303.7	210.1	266.9	310.2	227.3	559.4	473.4	146.4	2743.0
21	109	19.4	77.5	41.5	73.7	190.6	259.6	462.8	323.3	343.3	253.2	324.4	319.3	2689.0
21	110	65.7	16.3	2.4	138.1	401.8	220.1	303.7	324.9	324.3	288.6	347.9	235.1	2669.0
21	111	147.7	102.0	110.9	669.4	443.7	346.5	546.3	485.4	253.3	300.3	318.6	258.9	3982.0
21	112	125.7	44.3	47.1	413.9	493.5	302.1	513.3	331.8	251.8	371.7	349.2	230.8	3476.0
21	113	15.0	8.0	33.0	52.3	225.9	372.3	219.0	389.9	339.1	490.3	296.1	30.2	2470.0
21	114	38.6	50.4	36.0	126.0	283.4	389.7	320.1	269.7	208.6	270.8	453.4	219.0	2666.0
21	115	79.9	18.4	29.2	87.9	171.7	272.0	335.2	292.4	326.6	461.7	437.4	85.8	2598.0
21	116	56.4	37.6	73.1	157.9	206.1	333.2	405.0	419.3	247.4	274.4	422.5	253.8	2885.0
21	117	40.0	40.7	42.1	37.9	329.8	391.0	273.1	449.3	375.2	449.5	243.3	163.2	2835.0
21	118	25.0	42.9	23.9	129.7	303.5	348.7	164.2	287.0	389.1	308.3	386.4	124.7	2533.0
21	119	31.8	83.5	23.9	66.0	273.7	310.6	479.8	245.2	386.2	238.5	475.9	88.9	2705.0
21	120	67.0	9.4	20.7	229.0	447.7	390.7	329.9	391.4	447.0	315.7	396.4	213.6	3259.0
21	121	50.1	16.1	26.8	34.7	258.3	210.7	432.0	218.8	266.6	210.4	305.9	73.1	2104.0
21	122	65.6	51.0	93.7	126.6	276.6	559.4	351.6	358.1	313.0	468.9	303.1	97.6	3067.0
21	123	68.2	28.0	24.5	110.6	359.3	473.5	202.0	312.3	272.0	384.6	853.2	180.0	3268.0
21	124	23.9	33.4	17.5	160.6	348.1	421.7	442.7	464.9	301.6	340.6	383.1	147.0	3087.0
21	125	52.5	32.7	31.4	84.0	235.0	184.2	386.8	257.7	310.7	425.3	288.6	404.9	2695.0
21	126	133.9	18.1	62.8	184.3	314.6	188.7	285.9	414.8	276.3	617.7	290.7	88.5	2878.0
21	127	63.0	25.8	25.8	99.6	244.0	298.0	374.9	215.0	227.9	313.4	396.1	198.5	2482.0
21	128	16.7	21.1	17.4	113.4	406.8	384.2	377.1	374.0	372.1	520.2	343.5	700.3	3645.0
21	129	105.7	7.0	65.0	165.9	379.3	343.9	336.3	392.1	332.9	447.6	299.7	114.3	2990.0
21	130	137.4	17.0	15.0	22.1	290.3	338.1	299.8	260.3	431.1	315.0	301.8	310.0	2737.0
21	131	21.5	34.5	13.6	23.8	185.2	329.5	222.2	198.4	321.0	614.0	256.8	116.5	2335.0
21	132	62.1	23.1	24.6	59.9	260.1	195.8	409.8	307.0	364.8	413.4	195.6	475.8	2793.0
21	133	266.7	9.8	9.0	42.3	216.8	521.9	246.1	309.2	321.6	494.1	241.9	223.2	2903.0
21	134	25.0	20.0	23.6	83.9	189.3	427.9	285.8	188.8	253.4	416.8	297.8	320.1	2533.0
21	135	49.9	13.9	64.3	178.6	325.3	552.9	168.4	329.1	393.3	508.9	455.6	144.3	3184.0
21	136	8.9	30.4	68.2	67.2	262.1	468.1	365.4	311.7	363.0	244.2	463.4	199.7	2851.0
21	137	23.1	121.3	86.1	59.6	432.1	388.2	464.5	339.5	269.0	222.1	190.9	245.4	2841.0
21	138	39.9	28.2	15.0	18.7	97.9	220.3	114.7	259.6	472.6	387.7	519.5	652.7	2828.0
21	139	70.3	16.7	19.8	218.3	331.6	430.8	328.4	225.1	285.9	291.5	231.1	45.2	2494.0
21	140	12.0	29.7	25.2	47.2	226.0	222.1	410.5	334.7	259.8	323.0	293.0	233.7	2417.0
21	141	3.5	40.5	142.7	704.7	265.2	286.6	514.6	348.6	316.2	369.1	315.0	339.5	3648.0
21	142	77.6	39.0	49.8	97.0	262.8	366.1	199.8	292.5	311.1	376.6	659.3	544.5	3277.0
21	143	46.4	22.6	19.9	126.2	306.3	256.0	231.6	269.9	390.1	364.6	197.8	97.9	2330.0
21	144	32.2	117.7	154.3	279.4	426.5	387.4	224.8	237.5	185.8	293.2	243.6	244.9	2826.0
21	145	228.0	196.1	13.9	89.1	343.0	356.3	150.9	249.9	305.0	328.5	235.2	85.0	2581.0
21	146	206.6	4.6	7.0	11.3	246.5	266.0	268.0	380.2	380.6	368.2	344.4	296.4	2780.0
21	147	108.7	16.5	15.7	129.4	257.1	420.5	213.7	281.0	483.3	436.7	437.2	237.3	3038.0

21	148	40.4	17.2	28.8	233.4	376.5	303.3	371.6	250.0	375.9	511.6	367.9	240.6	3117.0
21	149	72.4	9.7	64.0	211.3	347.4	220.8	367.0	343.7	393.4	253.7	279.6	237.3	2800.0
21	150	80.9	37.9	14.2	65.3	491.0	255.5	188.5	334.3	310.9	249.3	243.2	94.0	2365.0
21	151	19.8	34.4	25.1	71.0	251.1	357.1	290.0	439.4	387.8	492.9	501.2	236.5	3106.0
21	152	6.8	53.7	23.1	39.4	339.2	355.6	261.3	272.9	396.4	338.8	361.3	509.3	2957.0
21	153	107.2	47.2	84.6	238.5	305.4	213.0	245.1	287.5	202.7	271.4	510.6	459.9	2974.0
21	154	100.3	22.3	19.7	88.8	281.2	321.2	279.9	321.6	293.1	426.1	246.7	56.5	2457.0
21	155	70.6	22.8	77.2	48.2	433.2	232.5	56.2	187.6	316.7	324.1	484.8	235.6	2491.0
21	156	86.4	82.4	62.5	163.5	429.9	296.4	255.6	389.2	301.9	453.3	206.6	151.3	2878.0
21	157	18.7	4.5	20.9	61.8	306.0	241.7	224.4	199.0	331.3	395.1	290.1	156.8	2251.0
21	158	81.4	88.9	73.8	178.4	366.4	307.3	220.0	198.6	294.5	253.1	406.2	251.3	2719.0
21	159	230.4	136.6	26.1	237.6	358.7	286.7	214.8	365.3	361.1	352.6	211.4	99.5	2882.0
21	160	21.3	129.1	117.8	142.7	576.9	333.1	494.1	423.3	357.8	348.8	283.6	208.3	3437.0
21	161	89.8	79.3	11.1	25.1	219.9	393.9	271.3	295.7	360.6	491.9	416.8	28.3	2684.0
21	162	40.4	19.6	6.4	101.0	278.4	320.9	327.2	386.1	360.5	375.9	382.5	147.0	2746.0
21	163	121.6	182.7	34.9	101.3	250.1	306.8	417.4	345.4	338.4	433.7	373.0	214.9	3120.0
21	164	138.9	28.6	143.4	278.5	247.9	417.2	390.4	349.3	268.4	237.0	289.5	213.6	3003.0
21	165	63.3	26.5	40.1	164.2	683.1	304.4	323.5	360.0	267.4	444.7	420.4	123.0	3218.0
21	166	8.8	36.6	56.6	181.6	409.1	334.7	212.1	286.3	152.6	375.6	263.8	357.0	2677.0
21	167	22.9	29.5	14.8	316.4	182.5	246.2	206.4	235.9	397.5	478.5	399.1	229.0	2758.0
21	168	12.4	24.8	3.0	217.7	449.5	259.9	266.4	338.5	253.1	366.4	369.2	249.1	2809.0
21	169	71.6	75.6	14.9	128.1	361.8	251.9	178.1	247.5	465.3	472.7	261.2	669.4	3198.0
21	170	87.7	44.5	50.4	165.5	289.5	394.9	485.5	442.0	333.9	490.5	771.2	127.2	3682.0
21	171	127.2	114.7	101.8	13.9	238.6	165.5	360.5	354.5	268.6	497.6	278.2	790.6	3314.0
21	172	202.6	42.4	53.4	87.0	574.3	291.9	310.0	393.5	361.9	390.9	273.1	96.8	3077.0
21	173	43.1	4.7	24.3	80.7	381.8	272.1	342.3	371.0	255.9	438.8	266.7	87.9	2570.0
21	174	246.8	56.7	41.3	272.3	334.9	199.7	100.8	258.6	371.1	379.7	312.3	83.4	2658.0
21	175	21.4	10.0	9.3	110.7	292.3	285.1	463.3	332.7	366.4	418.7	304.2	234.8	2848.0
21	176	6.4	44.8	76.4	138.2	346.6	417.2	322.9	242.3	292.9	294.2	289.3	59.0	2529.0
21	177	55.3	47.6	42.5	66.8	290.5	321.8	368.4	214.1	329.3	324.7	565.6	478.9	3105.0
21	178	119.6	44.0	20.9	174.5	481.6	239.6	327.9	398.5	237.0	172.2	210.4	166.7	2593.0
21	179	22.9	39.1	13.2	187.4	394.5	416.6	304.5	428.1	317.3	441.0	556.4	378.2	3498.0
21	180	107.2	5.2	38.4	193.4	278.6	430.0	340.3	410.0	336.7	283.3	640.3	108.1	3170.0
21	181	34.7	98.2	14.9	82.4	268.7	279.2	351.4	244.6	406.0	343.9	277.6	153.1	2555.0
21	182	10.3	79.4	30.1	58.6	319.7	361.4	426.8	247.0	376.3	330.8	404.2	112.1	2756.0
21	183	23.3	57.3	20.4	130.3	397.7	255.7	270.5	202.9	253.8	334.7	272.4	223.8	2442.0
21	184	7.2	15.0	33.9	81.1	347.0	161.0	528.2	405.0	381.0	385.8	334.1	89.6	2769.0
21	185	34.6	13.5	27.8	276.0	257.9	293.4	440.5	434.8	338.7	250.1	455.1	54.3	2877.0
21	186	168.2	12.8	61.6	40.8	185.7	372.4	268.8	259.0	359.1	339.3	535.0	160.8	2764.0
21	187	72.7	16.2	54.4	125.3	315.6	380.4	583.3	470.9	280.9	273.1	464.2	356.9	3393.0
21	188	107.0	43.3	12.7	18.5	227.5	360.5	258.1	240.9	322.4	200.3	237.1	275.9	2305.0
21	189	93.9	19.3	2.3	81.3	291.5	292.4	374.9	284.1	326.9	234.4	316.1	163.1	2478.0
21	190	32.5	19.4	42.4	54.2	174.2	219.0	146.2	147.8	237.9	418.7	356.7	326.3	2175.0
21	191	49.9	89.1	44.7	218.0	283.9	346.8	238.7	312.1	348.0	257.0	378.4	418.9	2986.0
21	192	33.5	2.9	19.3	18.5	302.7	363.7	475.9	334.1	277.3	282.0	329.3	60.7	2500.0
21	193	62.2	63.1	59.3	39.1	440.4	389.4	270.6	180.1	289.4	392.6	218.1	89.3	2492.0
21	194	3.9	4.3	9.4	110.3	262.4	399.5	325.0	469.4	288.0	358.7	205.9	79.8	2515.0
21	195	49.0	17.7	15.9	73.1	300.2	530.6	525.1	276.2	318.2	298.9	286.6	532.6	3225.0
21	196	342.8	65.5	72.8	239.7	341.0	316.6	355.0	322.2	332.2	426.4	184.0	265.6	3265.0
21	197	93.0	51.8	26.8	30.8	269.8	357.1	249.9	498.6	279.7	216.7	369.2	48.6	2494.0
21	198	78.0	46.2	53.4	315.6	403.4	336.2	290.8	322.9	243.7	376.1	288.5	214.2	2968.0
21	199	28.2	57.2	124.1	76.1	257.4	281.7	203.1	269.8	258.3	489.3	353.2	55.9	2453.0
21	200	50.1	88.1	13.0	14.3	161.7	317.4	321.5	328.2	286.1	387.5	458.3	366.1	2792.0

MAXIMUM VOLUMES FOR PERIOD 2 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	342.8	196.1	154.3	704.7	683.1	559.4	583.3	498.6	483.3	617.7	853.2	790.6	853.2	2918.1	15453.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	3.5	2.9	2.3	11.3	97.9	161.0	56.2	147.8	152.6	172.2	184.0	28.3	2.3	383.2	10679.
STA 21 MONTH 1 MEAN	71.29	VARIANCE	3991.57	STAN. DEV.	63.18										
STA 21 MONTH 2 MEAN	44.12	VARIANCE	1469.13	STAN. DEV.	38.33										
STA 21 MONTH 3 MEAN	40.53	VARIANCE	1068.00	STAN. DEV.	32.68										
STA 21 MONTH 4 MEAN	132.29	VARIANCE	13169.80	STAN. DEV.	114.76										
STA 21 MONTH 5 MEAN	315.69	VARIANCE	10629.93	STAN. DEV.	103.10										
STA 21 MONTH 6 MEAN	320.62	VARIANCE	8668.25	STAN. DEV.	93.10										
STA 21 MONTH 7 MEAN	315.18	VARIANCE	12749.05	STAN. DEV.	112.91										
STA 21 MONTH 8 MEAN	314.04	VARIANCE	7444.96	STAN. DEV.	86.28										
STA 21 MONTH 9 MEAN	314.87	VARIANCE	4932.15	STAN. DEV.	70.23										
STA 21 MONTH 10 MEAN	360.25	VARIANCE	10343.90	STAN. DEV.	101.70										
STA 21 MONTH 11 MEAN	354.98	VARIANCE	16571.04	STAN. DEV.	128.73										
STA 21 MONTH 12 MEAN	225.80	VARIANCE	24848.99	STAN. DEV.	157.64										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 3

STA 21 MONTH 1 MEAN	0.005	STD DEVO	0.055
STA 21 MONTH 2 MEAN	0.003	STD DEVO	0.057
STA 21 MONTH 3 MEAN	0.003	STD DEVO	0.056
STA 21 MONTH 4 MEAN	-0.007	STD DEVO	0.056
STA 21 MONTH 5 MEAN	0.002	STD DEVO	0.067
STA 21 MONTH 6 MEAN	0.006	STD DEVO	0.065
STA 21 MONTH 7 MEAN	0.003	STD DEVO	0.065
STA 21 MONTH 8 MEAN	-0.010	STD DEVO	0.065
STA 21 MONTH 9 MEAN	-0.003	STD DEVO	0.065
STA 21 MONTH 10 MEAN	0.002	STD DEVO	0.063
STA 21 MONTH 11 MEAN	0.004	STD DEVO	0.066
STA 21 MONTH 12 MEAN	-0.001	STD DEVO	0.062

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	201	91.1	43.2	193.3	244.3	275.2	226.2	141.5	208.4	348.7	368.6	459.1	171.5	2769.0
21	202	140.0	51.2	74.5	16.4	323.3	369.7	356.1	405.8	345.3	470.1	271.5	310.2	3133.0
21	203	60.4	124.7	37.1	213.6	556.4	398.6	467.7	255.0	275.5	384.4	247.7	254.5	3275.0
21	204	178.2	62.3	60.1	45.3	253.0	181.7	300.6	287.8	257.6	507.8	247.3	94.1	2476.0
21	205	42.9	31.5	40.0	115.2	267.7	157.7	223.9	399.4	333.0	654.8	300.5	279.0	2847.0
21	206	22.4	13.3	5.8	223.1	303.8	268.9	310.6	306.0	391.2	368.8	580.8	78.5	2874.0
21	207	83.3	87.3	15.5	74.4	299.1	279.5	285.3	206.2	216.1	174.6	313.3	76.6	2110.0
21	208	48.0	10.9	61.6	150.2	332.6	309.9	486.8	436.6	364.2	348.7	364.9	162.9	3079.0
21	209	3.6	4.7	112.3	273.6	500.8	315.0	430.7	324.9	360.5	426.1	201.2	198.2	3153.0
21	210	61.2	159.0	24.4	80.2	428.3	206.6	439.5	304.6	375.7	495.6	294.1	273.8	3143.0
21	211	25.1	16.9	36.5	91.3	266.8	249.2	321.8	370.1	373.7	538.8	268.8	534.3	3093.0
21	212	86.3	40.5	24.3	89.1	304.7	346.4	324.1	321.6	382.8	442.5	404.8	122.5	2889.0
21	213	28.1	56.0	59.1	197.9	379.9	181.8	145.2	219.9	406.6	409.7	306.7	256.0	2648.0
21	214	35.7	22.4	17.8	334.5	415.4	323.6	229.1	399.2	381.3	501.1	314.8	87.7	3063.0
21	215	22.2	37.5	27.0	109.5	362.6	260.0	146.9	258.0	285.0	222.9	253.7	575.9	2563.0
21	216	10.9	13.2	16.1	117.5	258.5	317.5	189.0	276.2	250.3	375.4	325.6	117.3	2266.0
21	217	23.9	9.8	45.1	393.6	295.7	282.5	267.6	221.8	279.0	318.2	480.6	178.7	2798.0
21	218	143.1	55.9	28.1	70.5	202.8	126.7	268.1	194.7	252.6	436.2	571.4	946.9	3297.0

21	219	139.9	10.8	97.8	57.7	300.7	309.7	222.5	378.2	232.3	262.1	269.4	190.2	2472.0
21	220	9.4	67.1	11.5	114.1	453.4	339.6	244.5	247.3	352.2	336.1	270.5	185.9	2630.0
21	221	82.5	63.3	28.1	111.2	204.5	478.6	487.3	346.2	227.5	252.6	460.5	354.0	3096.0
21	222	48.4	46.9	31.6	118.1	178.5	284.7	287.1	287.4	345.8	245.1	290.5	400.6	2565.0
21	223	329.3	29.7	45.4	50.7	306.7	361.4	247.7	312.8	300.0	173.3	421.3	321.0	2899.0
21	224	14.6	64.6	25.0	26.8	222.8	340.4	125.2	337.0	192.2	243.6	349.6	81.6	2025.0
21	225	174.3	54.6	46.8	21.7	212.4	207.2	416.4	235.0	281.9	260.0	303.5	183.4	2396.0
21	226	104.9	89.9	26.2	93.2	296.5	305.1	467.3	281.8	291.2	456.2	328.1	151.1	2891.0
21	227	158.0	24.6	87.5	217.9	531.0	466.9	307.8	241.9	290.3	481.3	391.0	204.1	3403.0
21	228	186.4	46.4	4.4	56.5	422.3	214.1	236.0	284.5	290.7	424.9	249.8	31.0	2446.0
21	229	8.0	81.5	52.0	114.8	418.3	373.3	270.6	281.5	343.7	326.2	839.8	123.6	3235.0
21	230	55.4	42.3	59.0	27.8	237.6	283.5	209.4	341.2	416.4	236.8	212.8	191.7	2313.0
21	231	38.8	126.5	34.4	73.7	352.0	263.2	119.4	265.1	311.2	269.1	480.4	154.5	2487.0
21	232	106.6	110.3	60.9	174.1	260.4	254.3	365.4	326.7	317.7	336.4	265.4	153.1	2730.0
21	233	19.4	78.4	23.1	48.5	374.0	300.1	218.3	273.8	390.5	368.0	309.5	382.4	2785.0
21	234	62.2	53.6	49.0	9.4	245.7	466.2	426.2	318.7	378.7	385.6	269.3	59.4	2724.0
21	235	17.5	69.8	22.3	382.5	314.7	263.4	328.6	400.0	384.7	406.3	201.2	29.8	2821.0
21	236	6.8	16.2	48.4	407.4	428.7	315.4	120.9	247.6	318.4	294.1	360.0	104.9	2668.0
21	237	86.0	7.0	103.1	257.7	326.6	292.8	508.2	543.8	275.1	547.8	628.0	414.0	3991.0
21	238	292.9	6.8	14.4	63.0	187.9	243.7	134.7	210.5	275.7	323.6	317.4	237.7	2310.0
21	239	106.0	84.3	130.8	106.2	299.5	524.7	455.0	322.8	263.6	259.5	384.1	163.2	3100.0
21	240	5.3	59.4	52.7	300.4	504.9	301.2	280.9	255.4	278.1	323.2	243.6	478.1	3082.0
21	241	45.3	39.5	41.0	176.2	270.9	362.1	482.5	396.0	276.6	379.8	325.2	667.3	3463.0
21	242	119.4	49.3	37.1	75.3	255.3	353.1	157.0	244.2	289.7	207.6	473.0	207.9	2468.0
21	243	83.4	42.2	10.1	182.7	375.1	477.3	365.0	238.8	342.9	340.9	384.7	270.5	3114.0
21	244	15.1	42.7	41.6	103.7	399.2	253.4	322.7	354.0	229.3	481.6	569.8	236.5	3051.0
21	245	55.4	33.6	116.7	246.1	190.5	315.8	345.7	395.4	429.3	451.2	261.2	88.8	2930.0
21	246	43.0	92.5	45.1	122.8	295.3	467.6	369.9	381.4	257.1	441.9	316.9	120.1	2953.0
21	247	68.5	22.1	47.4	73.3	253.8	303.1	467.1	536.4	383.4	508.8	377.2	123.0	3162.0
21	248	55.8	30.2	15.5	74.9	290.7	404.5	369.6	300.3	208.1	377.8	527.7	45.8	2701.0
21	249	51.8	5.7	61.8	26.1	315.4	342.4	307.4	346.7	273.9	258.5	218.4	82.4	2290.0
21	250	58.3	49.0	19.0	72.7	243.6	360.2	300.7	341.1	314.2	347.3	258.7	152.2	2517.0
21	251	12.4	66.3	17.6	114.6	219.3	349.1	372.5	224.8	332.0	297.9	423.6	45.5	2476.0
21	252	17.8	97.5	28.8	44.5	307.2	319.9	382.1	389.9	312.4	396.8	347.9	126.1	2771.0
21	253	218.7	63.3	21.6	170.6	324.7	452.4	325.6	253.4	275.7	428.7	478.9	253.6	3269.0
21	254	154.0	38.8	57.4	90.6	524.7	444.9	391.7	322.4	329.6	274.9	244.8	104.5	2980.0
21	255	97.4	46.2	21.2	149.0	410.4	391.6	350.3	391.5	269.4	251.7	231.7	195.9	2806.0
21	256	40.3	40.7	18.6	76.3	443.9	223.1	86.5	114.5	290.8	282.9	403.4	412.4	2432.0
21	257	56.3	1.1	14.8	39.6	249.7	293.6	339.1	365.8	280.3	497.6	370.4	282.8	2792.0
21	258	58.1	34.2	22.8	71.4	384.8	416.1	361.4	347.9	345.7	263.4	226.5	114.0	2645.0
21	259	121.7	12.6	24.1	30.8	185.2	288.6	487.9	442.2	225.1	244.9	416.0	271.2	2751.0
21	260	37.6	23.6	46.3	335.2	405.7	239.0	295.1	251.2	266.7	357.2	335.4	49.8	2643.0
21	261	7.8	43.3	40.9	153.8	352.9	265.4	307.7	329.0	299.1	255.5	312.2	243.3	2610.0
21	262	74.8	115.2	13.0	27.0	392.0	250.0	197.5	201.0	287.3	324.9	534.3	399.6	2817.0
21	263	191.8	29.7	35.3	19.3	283.7	469.9	423.6	267.1	358.8	386.7	364.4	720.8	3552.0
21	264	44.3	20.0	21.5	87.3	270.1	345.2	414.3	249.5	307.9	305.0	508.7	122.1	2694.0
21	265	66.0	19.0	8.7	55.9	215.7	391.5	302.8	475.0	360.3	375.0	367.2	93.4	2730.0
21	266	22.4	4.0	59.7	118.1	401.1	321.4	322.2	418.8	325.5	249.1	304.1	110.6	2657.0
21	267	5.1	53.3	119.0	68.0	227.2	379.3	562.8	439.8	401.9	236.3	191.6	99.6	2784.0
21	268	53.6	37.0	13.2	30.1	305.8	165.4	250.3	287.7	290.3	305.5	248.6	54.3	2042.0
21	269	92.0	64.1	16.5	214.2	199.5	370.5	232.2	356.4	322.4	503.4	343.6	327.1	3040.0
21	270	66.1	6.7	22.7	554.0	597.9	271.2	219.0	283.9	330.5	451.6	337.6	241.8	3384.0
21	271	18.6	46.8	98.0	36.9	149.6	297.3	134.1	323.2	399.5	269.6	499.5	502.8	2776.0
21	272	127.4	20.9	21.6	171.8	250.4	424.6	411.4	244.2	282.2	418.8	401.4	255.8	3030.0

21	273	22.8	26.8	7.9	21.8	213.5	216.4	273.6	246.0	276.3	516.7	611.6	254.7	2689.0
21	274	205.7	61.2	38.3	261.5	285.9	228.4	360.0	266.9	239.2	341.1	396.9	105.6	2790.0
21	275	39.4	1.6	6.8	57.0	379.6	426.9	478.0	289.0	226.7	316.5	260.1	169.7	2652.0
21	276	197.1	41.9	10.6	132.2	193.4	300.2	324.3	219.5	473.1	497.3	279.1	90.5	2757.0
21	277	131.4	40.6	17.3	31.5	213.4	446.0	310.1	359.8	240.6	332.5	470.2	250.0	2843.0
21	278	27.1	0.8	25.7	241.6	216.7	326.6	338.3	344.2	269.5	359.5	379.8	448.9	2981.0
21	279	172.5	117.4	252.7	252.1	356.2	504.4	502.0	289.2	287.1	339.1	411.8	403.5	3887.0
21	280	72.0	47.7	136.2	387.6	320.0	482.8	311.0	246.8	338.8	377.5	375.3	80.5	3177.0
21	281	14.1	33.5	11.3	55.3	340.8	227.5	426.9	382.6	412.2	344.9	180.4	149.5	2579.0
21	282	82.2	34.7	32.3	90.4	373.7	298.6	248.2	181.4	267.7	432.1	343.6	272.1	2657.0
21	283	29.7	27.9	20.5	22.1	218.6	336.4	284.7	334.4	392.8	455.2	228.8	199.2	2551.0
21	284	60.2	78.1	47.2	34.0	287.4	377.1	440.6	268.2	267.4	412.7	379.4	163.8	2815.0
21	285	67.1	42.2	7.8	175.3	396.4	263.9	492.7	441.3	380.9	280.2	342.2	122.2	3011.0
21	286	72.7	21.5	31.6	109.3	333.6	191.0	298.3	411.7	277.8	390.9	270.1	133.8	2544.0
21	287	141.6	20.7	13.9	91.5	288.0	447.9	200.3	382.2	224.9	432.1	228.7	225.6	2699.0
21	288	15.2	18.7	61.7	316.2	416.2	306.3	411.5	500.6	279.1	398.3	348.7	193.9	3266.0
21	289	26.4	25.4	6.5	87.2	185.7	434.1	178.7	236.3	212.6	309.0	230.3	232.4	2164.0
21	290	83.0	100.9	37.8	85.9	576.2	288.6	353.3	332.8	400.1	349.5	256.5	242.9	3108.0
21	291	45.2	22.3	26.2	186.2	496.8	198.6	318.9	274.8	345.7	627.2	279.5	100.2	2921.0
21	292	53.9	14.5	39.1	157.0	428.0	388.6	487.4	349.2	311.7	397.3	291.0	197.4	3115.0
21	293	53.1	30.0	19.6	56.4	152.9	404.1	237.7	304.0	369.1	328.7	581.1	439.2	2976.0
21	294	29.8	67.9	55.6	115.7	169.3	321.4	462.7	311.8	505.4	357.2	249.2	229.1	2875.0
21	295	41.8	23.9	23.3	60.6	264.8	361.6	174.7	189.4	297.4	403.0	335.3	84.6	2261.0
21	296	35.4	14.8	25.9	267.1	402.6	344.0	382.1	410.7	427.9	392.5	901.3	372.6	3977.0
21	297	12.1	72.2	49.8	207.3	347.5	321.1	414.5	371.6	383.6	342.8	274.2	417.5	3214.0
21	298	27.1	12.2	3.3	129.7	327.4	294.4	241.4	443.7	278.6	321.9	470.5	109.6	2660.0
21	299	58.5	10.6	3.6	35.4	285.0	237.8	169.0	298.9	493.6	316.6	286.9	234.2	2432.0
21	300	38.0	22.6	12.5	80.6	169.8	419.8	300.8	383.4	355.3	210.3	784.8	782.7	3562.0

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MAXIMUM VOLUMES FOR PERIOD 3 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	329.3	159.0	252.7	554.0	597.9	524.7	562.8	543.8	505.4	654.8	901.3	946.9	946.9	2916.9	14990.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	3.6	0.8	3.3	9.4	149.6	126.7	86.5	114.5	192.2	173.3	180.4	29.8	0.8	425.0	10603.
STA 21 MONTH 1 MEAN	71.56	VARIANCE	3968.87	STAN. DEV.	63.00										
STA 21 MONTH 2 MEAN	43.75	VARIANCE	10274.49	STAN. DEV.	32.05										
STA 21 MONTH 3 MEAN	41.24	VARIANCE	1536.63	STAN. DEV.	39.20										
STA 21 MONTH 4 MEAN	131.54	VARIANCE	11221.40	STAN. DEV.	105.93										
STA 21 MONTH 5 MEAN	315.67	VARIANCE	10713.28	STAN. DEV.	103.50										
STA 21 MONTH 6 MEAN	319.75	VARIANCE	8340.98	STAN. DEV.	91.33										
STA 21 MONTH 7 MEAN	315.92	VARIANCE	12861.31	STAN. DEV.	113.41										
STA 21 MONTH 8 MEAN	313.36	VARIANCE	7380.15	STAN. DEV.	85.91										
STA 21 MONTH 9 MEAN	314.15	VARIANCE	5107.70	STAN. DEV.	71.47										
STA 21 MONTH 10 MEAN	362.01	VARIANCE	10196.14	STAN. DEV.	100.98										
STA 21 MONTH 11 MEAN	353.19	VARIANCE	17198.33	STAN. DEV.	131.14										
STA 21 MONTH 12 MEAN	222.59	VARIANCE	25114.71	STAN. DEV.	158.48										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 4

STA 21 MONTH 1 MEAN	0.013	STD DEV	0.056
STA 21 MONTH 2 MEAN	0.001	STD DEV	0.062
STA 21 MONTH 3 MEAN	-0.010	STD DEV	0.064

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STA	21	MONTH	4	MEAN	0.009	STD	DEVO	0.063
STA	21	MONTH	5	MEAN	-0.004	STD	DEVO	0.065
STA	21	MONTH	6	MEAN	-0.008	STD	DEVO	0.066
STA	21	MONTH	7	MEAN	-0.006	STD	DEVO	0.057
STA	21	MONTH	8	MEAN	-0.002	STD	DEVO	0.065
STA	21	MONTH	9	MEAN	0.001	STD	DEVO	0.068
STA	21	MONTH	10	MEAN	-0.001	STD	DEVO	0.063
STA	21	MONTH	11	MEAN	0.008	STD	DEVO	0.073
STA	21	MONTH	12	MEAN	0.004	STD	DEVO	0.065

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	301	14.5	7.7	10.4	42.8	526.9	238.4	322.8	323.5	407.4	289.6	391.9	120.9	2696.0
21	302	30.0	23.4	23.8	26.7	397.1	283.6	139.8	204.6	363.0	343.0	454.2	195.1	2485.0
21	303	20.6	68.0	59.1	102.7	601.5	179.4	366.8	416.6	409.2	477.5	279.2	52.0	3033.0
21	304	44.6	70.8	22.0	68.0	476.5	335.3	311.0	369.7	231.1	432.0	320.5	103.2	2786.0
21	305	188.0	85.4	19.9	270.1	432.3	434.1	344.0	262.4	222.6	186.1	447.4	176.7	3068.0
21	306	42.3	13.9	4.7	5.8	156.7	189.2	292.8	488.0	322.4	491.1	657.6	244.7	2910.0
21	307	24.1	19.2	62.7	102.1	445.4	315.2	186.3	252.7	272.0	250.2	214.7	66.8	2211.0
21	308	43.8	24.8	13.2	47.7	193.2	430.4	359.1	254.3	298.7	323.9	381.4	31.5	2401.0
21	309	62.0	143.1	251.3	43.2	255.5	504.9	357.0	322.9	324.9	350.8	464.1	266.6	3346.0
21	310	56.3	50.9	30.4	63.7	353.4	231.9	315.9	309.9	330.3	558.6	541.8	174.9	3018.0
21	311	32.4	19.1	35.5	90.7	242.6	279.2	282.9	395.9	314.1	212.6	286.2	143.3	2335.0
21	312	184.9	148.8	102.9	205.6	419.6	247.3	222.9	142.7	285.2	268.0	411.3	591.3	3231.0
21	313	321.5	11.3	23.2	130.1	365.7	196.1	258.1	291.4	297.1	260.3	259.8	528.3	2942.0
21	314	6.8	5.8	2.5	73.0	248.2	305.0	447.3	418.8	318.6	374.8	418.2	334.0	2953.0
21	315	23.6	14.7	35.5	55.7	411.8	232.5	291.0	497.5	353.5	451.5	352.3	156.8	2878.0
21	316	24.8	29.0	70.1	144.8	307.9	377.0	226.2	366.7	411.6	416.0	367.4	244.0	2986.0
21	317	14.2	67.9	70.1	119.5	212.2	395.5	380.4	419.3	236.2	295.6	389.1	273.7	2874.0
21	318	54.6	12.7	17.1	371.0	284.6	245.9	393.6	325.1	239.9	257.6	267.2	97.6	2569.0
21	319	50.7	24.5	20.2	58.8	340.9	301.3	519.4	442.7	400.8	502.6	343.0	44.0	3050.0
21	320	80.2	22.1	10.8	144.8	369.0	280.5	274.8	401.0	295.7	382.5	591.4	339.0	3192.0
21	321	68.2	86.2	81.4	81.9	195.3	300.7	312.7	176.3	267.3	469.7	505.9	309.8	2855.0
21	322	31.5	18.8	24.6	76.4	308.6	301.5	351.4	294.5	366.2	287.9	225.6	235.5	2522.0
21	323	32.3	80.2	16.0	280.1	249.0	129.2	190.6	291.8	292.3	463.2	344.4	268.9	2637.0
21	324	120.2	62.4	53.0	226.9	315.1	288.9	460.2	326.7	384.1	237.4	339.0	99.4	2912.0
21	325	7.4	21.3	17.3	102.4	230.8	277.0	173.8	303.7	339.7	330.2	315.2	267.5	2386.0
21	326	132.1	73.9	59.2	143.0	312.2	259.1	169.4	259.6	242.8	400.0	368.3	564.1	2983.0
21	327	206.5	23.9	69.4	125.4	284.9	259.3	432.8	393.3	309.6	231.5	282.6	105.8	2725.0
21	328	205.8	115.7	50.4	538.6	393.9	474.7	468.7	395.6	307.5	316.5	362.3	292.4	3923.0
21	329	117.2	9.2	6.0	48.5	376.9	279.8	306.2	366.4	401.4	450.0	176.7	141.7	2679.0
21	330	27.2	4.9	24.6	71.4	306.3	337.6	441.9	393.9	325.7	406.4	289.9	345.7	2976.0
21	331	291.1	32.7	29.8	54.7	283.6	412.9	367.0	352.1	366.2	409.3	346.0	389.2	3335.0
21	332	39.8	143.1	102.4	45.1	400.7	365.2	368.8	266.4	234.3	304.7	365.1	226.9	2862.0
21	333	38.2	41.0	50.8	801.0	378.9	340.1	405.4	272.4	382.2	447.7	265.8	51.7	3475.0
21	334	53.7	58.3	58.7	193.5	354.2	247.6	306.3	115.8	350.8	304.7	503.9	115.4	2664.0
21	335	44.3	13.6	89.1	17.7	196.7	260.9	233.4	393.6	388.3	434.2	352.3	68.5	2493.0
21	336	36.7	1.8	51.5	235.2	274.1	305.8	385.4	250.9	330.4	397.5	373.9	242.5	2885.0
21	337	111.1	13.1	34.5	142.3	250.3	237.8	256.9	472.4	378.1	307.3	821.4	311.2	3334.0
21	338	65.8	51.4	52.5	75.1	391.8	450.5	491.4	371.7	405.0	623.6	247.3	332.4	3559.0
21	339	167.3	99.7	4.7	68.3	145.1	407.8	403.8	273.7	416.9	333.9	939.1	567.9	3829.0
21	340	61.3	54.6	27.5	558.8	344.7	332.4	458.1	399.1	335.8	311.8	263.3	166.6	3314.0
21	341	7.2	24.9	23.2	180.0	279.9	361.8	421.4	260.7	379.8	313.8	255.7	593.5	3102.0
21	342	79.2	40.9	84.9	101.7	186.5	181.4	297.2	378.2	326.2	348.6	243.6	98.3	2366.0
21	343	14.9	8.0	28.5	80.7	270.7	458.1	341.6	379.8	353.2	347.0	378.8	45.6	2708.0

21	344	68.0	78.8	46.3	128.5	437.8	313.9	213.7	266.9	273.4	314.3	221.9	193.1	2556.0
21	345	67.9	42.7	20.3	88.8	314.0	369.7	171.7	300.1	291.3	505.0	509.4	349.7	3031.0
21	346	62.1	19.7	49.7	305.0	259.3	359.3	466.8	244.8	186.1	205.4	352.8	114.8	2626.0
21	347	58.5	11.8	50.9	169.7	447.8	300.5	498.3	353.6	374.4	524.9	437.3	318.9	3546.0
21	348	7.7	40.6	60.2	65.3	428.3	324.0	466.6	370.3	263.0	529.0	239.0	128.9	2923.0
21	349	145.2	12.8	21.7	68.0	259.8	366.6	222.5	399.9	298.0	308.3	314.9	62.1	2480.0
21	350	122.0	29.1	16.8	116.7	368.0	407.7	209.7	363.0	291.5	412.8	258.5	102.3	2698.0
21	351	83.6	19.0	36.5	185.7	262.3	309.9	172.3	212.5	306.4	304.7	379.8	50.1	2324.0
21	352	23.0	35.2	24.2	139.0	153.7	559.0	451.7	419.3	330.5	369.0	246.6	137.4	2888.0
21	353	19.5	28.1	83.1	48.7	265.9	435.8	495.8	379.0	238.6	429.5	203.0	413.6	3042.0
21	354	17.4	64.3	13.1	29.7	338.2	281.9	250.2	353.0	299.3	492.3	284.6	230.0	2653.0
21	355	22.6	56.7	40.2	100.4	384.8	553.7	514.7	310.0	261.1	441.9	437.4	322.9	3447.0
21	356	61.3	11.1	4.5	55.7	343.5	276.6	224.5	304.6	200.4	241.4	443.9	314.3	2481.0
21	357	28.0	1.3	17.7	82.8	279.4	382.1	279.3	321.0	226.5	326.8	314.7	137.0	2397.0
21	358	28.3	43.9	16.5	23.5	176.7	217.8	111.7	181.2	366.0	396.3	439.0	190.7	2193.0
21	359	134.4	44.2	68.1	67.2	333.0	264.9	341.4	359.1	242.1	380.5	508.1	144.8	2887.0
21	360	4.8	19.6	4.9	118.9	371.8	449.6	335.3	271.2	266.9	349.0	218.9	206.7	2619.0
21	361	90.5	59.7	12.3	299.9	438.4	281.1	131.9	244.1	342.2	246.6	269.3	33.2	2449.0
21	362	7.2	8.5	28.6	60.3	389.8	318.8	550.2	328.3	322.2	225.9	262.6	189.6	2693.0
21	363	25.9	14.9	19.7	94.1	568.6	457.2	227.3	298.8	274.4	311.9	655.3	828.7	3777.0
21	364	93.9	73.4	79.9	110.8	314.6	360.5	340.3	339.6	361.9	198.4	475.7	325.5	3075.0
21	365	76.9	26.1	8.5	81.8	351.5	271.4	596.2	329.7	219.0	366.9	202.7	238.4	2769.0
21	366	64.5	54.0	102.0	168.1	350.7	306.9	350.4	232.7	338.1	328.2	365.9	127.6	2789.0
21	367	85.1	124.2	27.2	64.1	261.1	251.0	285.6	239.9	411.9	404.1	211.7	174.4	2540.0
21	368	129.3	11.0	3.4	23.8	274.1	333.6	354.8	286.3	340.9	461.4	445.5	273.1	2937.0
21	369	56.4	179.7	87.0	60.7	215.9	214.1	166.7	319.7	319.0	465.4	286.4	342.7	2714.0
21	370	66.6	77.5	7.7	138.7	394.4	354.5	447.7	374.0	382.1	314.7	414.4	221.1	3194.0
21	371	196.1	40.2	62.7	494.6	481.3	441.4	182.6	237.3	336.6	276.4	388.1	440.2	3577.0
21	372	85.6	64.0	17.4	60.6	172.4	356.1	275.2	235.2	413.2	290.1	267.5	172.2	2408.0
21	373	40.6	45.3	37.2	61.5	149.3	301.1	476.6	366.4	487.2	368.9	382.8	118.0	2835.0
21	374	16.2	7.1	55.4	77.7	265.4	340.9	296.7	396.5	316.1	536.5	218.6	231.3	2757.0
21	375	122.2	17.3	22.5	89.1	280.6	318.7	139.8	161.5	199.6	315.6	239.3	176.0	2083.0
21	376	12.6	68.6	49.7	112.1	320.0	478.4	479.2	402.4	307.4	391.2	293.9	39.3	2954.0
21	377	5.5	117.9	90.7	352.5	366.2	428.1	306.1	362.8	353.6	213.2	372.9	230.5	3200.0
21	378	265.5	26.6	25.3	253.4	232.3	464.6	279.5	374.9	392.3	342.6	381.7	126.8	3166.0
21	379	21.0	42.4	30.3	63.2	240.1	354.6	404.4	398.6	417.9	318.4	562.4	284.4	3136.0
21	380	53.9	28.1	28.1	92.4	353.7	334.2	314.9	390.5	361.1	437.4	261.8	124.4	2780.0
21	381	76.0	63.3	62.2	158.8	193.0	227.8	187.9	390.1	338.5	344.4	366.3	155.3	2562.0
21	382	28.1	21.2	88.0	188.2	352.2	266.3	461.4	419.4	396.3	365.4	248.3	110.1	2942.0
21	383	49.1	31.1	34.0	149.2	274.8	212.5	245.0	262.8	229.8	261.0	602.8	83.5	2436.0
21	384	16.8	19.7	34.5	54.7	306.5	235.6	263.1	224.5	334.7	362.3	269.2	116.1	2240.0
21	385	11.4	52.2	112.2	66.9	275.3	304.2	164.8	238.3	294.3	472.3	288.3	346.5	2624.0
21	386	73.5	31.5	23.1	29.6	109.5	347.9	135.7	201.8	370.4	547.6	675.0	364.0	2911.0
21	387	12.4	102.5	23.2	97.0	315.5	263.6	429.9	230.9	263.7	287.0	334.6	70.8	2432.0
21	388	97.4	13.2	32.0	284.1	386.5	275.2	204.6	332.1	298.7	296.1	331.2	262.6	2813.0
21	389	87.8	31.6	34.4	28.1	462.1	440.1	320.3	205.3	256.9	447.8	387.0	180.3	2881.0
21	390	62.4	35.7	36.9	18.7	246.9	318.2	267.6	338.4	240.2	304.2	463.5	662.4	2994.0
21	391	36.6	50.6	18.6	103.0	374.1	273.0	311.7	293.1	192.4	400.1	376.5	87.4	2518.0
21	392	91.7	28.3	9.9	44.8	325.4	179.9	379.3	172.6	255.1	364.1	238.6	396.8	2487.0
21	393	71.3	50.9	9.0	40.8	189.2	443.4	170.9	242.6	255.4	321.3	320.0	300.2	2414.0
21	394	130.3	29.0	29.2	84.8	306.3	461.6	229.8	265.8	378.4	374.9	292.6	383.7	2967.0
21	395	29.8	91.3	71.2	433.0	559.3	299.3	179.9	254.3	392.8	434.3	315.1	423.5	3483.0
21	396	59.6	4.8	15.6	248.7	240.0	296.0	277.3	275.7	360.3	283.6	202.4	60.1	2325.0
21	397	119.9	55.9	38.0	228.1	417.0	288.5	254.5	333.1	293.7	639.0	235.7	174.9	3078.0

21	398	53.4	63.4	11.5	54.3	271.5	258.4	372.8	440.5	229.6	208.6	360.5	172.1	2495.0
21	399	202.2	37.5	24.5	144.9	277.4	187.9	263.0	297.8	259.5	461.4	274.0	284.5	2714.0
21	400	162.7	63.1	55.4	53.4	240.9	388.0	324.0	316.5	303.1	291.2	309.1	107.2	2614.0

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MAXIMUM VOLUMES FOR PERIOD 4 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	321.5	179.7	251.3	801.0	601.5	559.0	596.2	497.5	487.2	639.0	939.1	828.7	939.1	2935.3	16350.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	4.8	1.3	2.5	5.8	109.5	129.2	111.7	115.8	186.1	186.1	176.7	31.5	1.3	389.7	10668.
STA 21 MONTH 1 MEAN	70.59	VARIANCE	4062.33	STAN. DEV.	63.74										
STA 21 MONTH 2 MEAN	44.02	VARIANCE	1301.47	STAN. DEV.	36.08										
STA 21 MONTH 3 MEAN	40.04	VARIANCE	1185.42	STAN. DEV.	34.43										
STA 21 MONTH 4 MEAN	134.26	VARIANCE	16661.88	STAN. DEV.	129.08										
STA 21 MONTH 5 MEAN	314.98	VARIANCE	10304.48	STAN. DEV.	101.51										
STA 21 MONTH 6 MEAN	319.93	VARIANCE	8606.07	STAN. DEV.	92.77										
STA 21 MONTH 7 MEAN	314.88	VARIANCE	13123.42	STAN. DEV.	114.56										
STA 21 MONTH 8 MEAN	314.43	VARIANCE	7199.87	STAN. DEV.	84.85										
STA 21 MONTH 9 MEAN	314.71	VARIANCE	4904.74	STAN. DEV.	70.03										
STA 21 MONTH 10 MEAN	361.21	VARIANCE	10493.85	STAN. DEV.	102.44										
STA 21 MONTH 11 MEAN	357.55	VARIANCE	18536.97	STAN. DEV.	136.15										
STA 21 MONTH 12 MEAN	227.74	VARIANCE	23274.98	STAN. DEV.	152.56										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 5

STA 21 MONTH 1 MEAN	-0.003	STD DEVO	0.061
STA 21 MONTH 2 MEAN	-0.005	STD DEVO	0.062
STA 21 MONTH 3 MEAN	-0.005	STD DEVO	0.061
STA 21 MONTH 4 MEAN	0.002	STD DEVO	0.067
STA 21 MONTH 5 MEAN	0.005	STD DEVO	0.063
STA 21 MONTH 6 MEAN	0.005	STD DEVO	0.058
STA 21 MONTH 7 MEAN	0.001	STD DEVO	0.070
STA 21 MONTH 8 MEAN	0.000	STD DEVO	0.068
STA 21 MONTH 9 MEAN	0.000	STD DEVO	0.059
STA 21 MONTH 10 MEAN	0.009	STD DEVO	0.069
STA 21 MONTH 11 MEAN	-0.001	STD DEVO	0.062
STA 21 MONTH 12 MEAN	0.007	STD DEVO	0.055

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	401	132.3	28.3	14.6	187.7	312.2	237.0	254.4	381.9	316.6	330.4	497.1	222.4	2914.0
21	402	88.6	57.7	3.7	75.6	469.1	377.9	279.1	374.2	330.4	293.2	225.5	80.8	2657.0
21	403	116.2	27.4	100.2	87.8	246.7	340.1	414.0	414.1	345.6	211.3	202.8	43.0	2549.0
21	404	28.6	59.4	116.8	208.8	332.9	151.2	232.8	297.7	270.6	363.3	253.5	257.6	2574.0
21	405	12.3	115.5	83.7	106.4	283.9	505.3	566.7	324.9	457.9	557.0	427.3	653.8	4095.0
21	406	11.7	19.1	17.8	29.1	199.7	175.6	183.6	237.6	296.9	333.7	372.9	320.2	2200.0
21	407	138.5	132.9	37.7	96.1	551.0	392.0	277.9	243.9	250.7	376.5	296.6	34.1	2830.0
21	408	99.9	61.6	87.8	347.8	337.3	290.0	221.3	248.8	296.6	259.2	642.0	187.2	3080.0
21	409	66.8	49.8	52.1	66.9	343.8	458.5	381.7	281.7	339.6	348.5	744.4	369.8	3505.0
21	410	81.0	44.8	23.3	64.6	333.0	175.3	219.8	261.9	206.6	421.1	314.8	250.5	2397.0
21	411	67.7	12.7	46.0	158.0	514.2	321.7	181.4	309.8	301.6	388.1	377.9	74.1	2754.0
21	412	71.4	50.2	31.9	206.1	263.2	338.2	353.5	219.8	417.9	521.5	321.3	180.6	2976.0
21	413	54.2	123.8	80.6	25.0	265.5	340.7	402.0	458.2	371.1	291.0	258.6	161.1	2832.0
21	414	154.3	52.4	37.4	89.0	476.8	327.5	371.4	256.4	386.2	349.4	274.5	223.1	2997.0

21	415	36.5	57.3	23.7	64.1	279.4	458.6	562.6	451.1	417.0	404.9	265.8	186.2	3207.0
21	416	49.1	19.7	20.9	90.1	402.8	341.3	264.8	177.7	346.9	485.1	186.8	159.4	2545.0
21	417	10.0	74.6	9.7	130.2	346.4	302.2	339.8	270.1	249.3	220.9	265.7	209.1	2428.0
21	418	80.9	23.7	20.8	56.7	336.4	292.1	331.8	315.4	311.1	278.7	320.7	67.1	2436.0
21	419	112.2	22.0	31.5	40.0	313.2	356.5	168.7	294.4	271.2	407.9	192.5	73.7	2283.0
21	420	161.3	34.3	13.8	112.4	315.8	373.0	389.7	326.3	347.2	369.0	273.4	529.9	3245.0
21	421	100.4	26.4	46.6	108.4	466.7	293.5	205.5	241.9	372.4	463.7	345.6	402.1	3073.0
21	422	61.7	66.7	29.3	449.8	527.0	352.8	289.9	322.7	255.5	253.7	279.6	302.3	3193.0
21	423	75.3	26.3	41.1	210.4	422.8	328.0	392.0	275.8	244.9	236.7	375.7	164.5	2793.0
21	424	68.2	23.5	21.7	283.5	240.3	134.6	72.4	219.1	263.2	392.8	479.3	198.7	2398.0
21	425	2.6	20.8	11.8	65.7	270.2	341.1	364.5	283.0	420.9	400.4	391.2	201.3	2773.0
21	426	56.2	28.7	21.0	193.7	448.8	332.0	330.0	350.5	245.6	230.5	296.6	363.7	2898.0
21	427	21.7	31.1	9.8	31.4	244.9	483.9	446.3	232.6	245.2	396.9	370.6	142.6	2658.0
21	428	39.4	56.1	96.5	183.9	243.4	317.9	217.5	235.0	323.0	354.2	205.0	42.3	2313.0
21	429	71.9	49.3	45.8	139.6	263.4	321.5	320.4	295.4	244.1	318.7	379.4	248.0	2696.0
21	430	193.9	15.7	7.8	225.5	262.8	230.6	162.4	244.6	296.2	476.7	434.8	480.2	3033.0
21	431	47.3	43.1	6.7	101.0	485.7	374.9	211.3	335.2	332.6	379.3	762.4	175.8	3255.0
21	432	34.3	27.7	25.2	72.9	328.4	396.0	195.6	275.2	279.4	459.4	249.6	202.1	2545.0
21	433	31.0	11.3	14.9	42.3	360.8	286.8	505.3	409.9	327.3	380.4	242.5	93.2	2705.0
21	434	7.8	73.4	38.3	206.9	339.8	320.2	436.0	352.6	237.5	310.1	268.9	33.8	2625.0
21	435	90.1	125.4	25.1	49.2	352.6	544.4	426.6	434.4	220.6	180.3	299.0	204.7	2952.0
21	436	61.9	16.8	8.8	115.2	155.0	300.4	278.5	276.3	282.7	262.6	224.1	280.4	2262.0
21	437	104.0	20.3	56.1	28.0	324.7	233.2	361.6	331.9	418.9	378.3	435.1	226.4	2918.0
21	438	12.2	30.0	147.5	515.9	318.5	244.7	270.2	320.0	381.7	366.8	369.4	87.5	3064.0
21	439	78.2	106.7	14.0	17.9	239.7	164.9	336.7	412.3	245.3	446.0	515.9	359.8	2938.0
21	440	34.4	27.5	47.4	53.8	406.1	373.8	185.4	243.9	364.3	412.7	362.6	98.9	2611.0
21	441	44.8	10.2	6.1	46.6	184.4	304.7	214.4	245.2	432.6	544.3	328.2	488.0	2849.0
21	442	96.2	45.3	74.1	72.4	206.1	378.3	231.4	206.8	315.1	399.6	248.9	140.9	2414.0
21	443	3.4	9.5	15.1	189.4	461.0	438.2	235.2	192.7	298.5	278.1	336.3	518.0	2974.0
21	444	67.5	13.4	34.1	27.8	252.9	326.0	169.2	442.5	394.3	313.9	255.7	367.1	2664.0
21	445	65.2	21.8	9.5	44.9	424.6	281.5	351.1	232.6	309.7	445.1	344.6	109.1	2641.0
21	446	2.0	35.3	67.7	34.6	285.3	331.7	332.9	263.4	325.5	389.4	517.1	465.0	3049.0
21	447	195.3	226.3	91.8	137.5	541.8	444.3	228.5	259.5	307.3	408.1	469.6	237.6	3548.0
21	448	77.9	139.7	124.6	94.5	497.5	275.3	197.1	309.9	328.3	386.7	230.0	65.6	2727.0
21	449	55.5	14.4	15.2	142.7	223.8	442.1	380.3	435.0	299.2	173.9	366.5	290.4	2837.0
21	450	58.2	40.0	27.3	174.5	307.6	262.5	130.0	213.9	374.9	370.6	391.5	123.8	2475.0
21	451	46.8	26.2	7.0	50.2	307.2	283.9	326.2	401.8	377.2	253.1	380.7	221.5	2681.0
21	452	130.8	55.1	11.6	98.2	375.0	413.1	215.2	234.5	362.4	396.4	297.9	216.7	2807.0
21	453	68.3	9.8	43.1	184.6	270.9	497.5	446.4	417.2	255.8	346.2	271.3	230.5	3041.0
21	454	35.5	39.6	32.5	125.2	182.4	334.9	438.8	297.0	348.0	297.0	299.4	397.2	2826.0
21	455	34.1	17.9	25.0	85.4	451.5	194.4	397.3	223.2	384.6	254.0	406.5	82.0	2555.0
21	456	32.9	73.6	94.7	200.1	321.1	404.2	527.9	319.5	354.1	371.0	328.2	111.0	3139.0
21	457	42.6	8.4	22.0	26.5	392.3	179.2	201.9	171.2	294.5	243.0	412.0	282.7	2276.0
21	458	170.1	44.5	26.2	573.2	345.7	356.6	318.3	407.5	303.1	274.9	405.0	177.3	3401.0
21	459	37.9	33.4	52.3	350.4	219.6	351.7	249.4	331.6	495.3	329.5	265.0	189.0	2905.0
21	460	24.8	48.8	46.8	236.9	424.5	457.6	316.5	308.1	346.9	318.2	348.7	192.3	3071.0
21	461	49.7	24.9	16.6	17.2	346.5	230.9	286.9	366.6	291.1	498.1	452.2	117.9	2700.0
21	462	111.7	64.1	36.4	20.5	266.1	448.3	273.0	501.5	298.0	265.9	396.5	167.7	2849.0
21	463	40.6	29.8	18.1	72.8	346.6	188.4	144.9	250.6	350.7	359.2	239.3	132.5	2174.0
21	464	25.1	33.2	73.3	184.6	361.0	367.3	416.1	460.0	331.3	624.6	371.6	56.5	3304.0
21	465	118.8	57.8	61.6	128.5	321.4	402.8	360.8	399.6	300.4	293.4	552.3	124.7	3123.0
21	466	21.8	4.3	30.2	112.9	287.8	257.5	480.3	307.6	298.1	442.7	243.8	185.5	2672.0
21	467	18.0	4.6	8.8	92.4	222.4	207.9	300.7	498.5	270.9	300.6	382.0	152.1	2460.0
21	468	38.2	16.3	22.0	21.4	369.7	278.9	385.7	374.6	204.1	551.7	646.2	76.7	2986.0

21	469	11.7	9.5	13.2	434.3	252.8	332.0	329.4	427.0	254.8	394.2	262.6	127.5	2849.0
21	470	36.2	24.1	9.1	214.2	278.1	181.1	183.2	340.3	296.7	449.5	311.9	96.8	2420.0
21	471	115.8	62.3	40.0	570.0	195.9	386.2	454.8	459.4	387.7	313.0	214.4	175.6	3375.0
21	472	120.2	20.9	22.9	313.0	351.3	297.7	387.8	229.6	379.9	356.1	259.8	522.2	3262.0
21	473	145.0	18.4	91.7	195.6	448.0	299.4	230.8	188.1	191.9	417.9	298.9	164.9	2691.0
21	474	20.7	3.4	1.4	23.0	132.0	322.2	547.7	383.6	409.2	590.9	319.9	104.0	2858.0
21	475	29.2	68.9	40.6	250.4	318.9	210.6	242.0	249.6	238.1	207.4	250.8	186.9	2294.0
21	476	39.2	12.2	15.1	29.6	371.5	310.2	218.3	274.7	290.5	393.8	177.5	207.4	2340.0
21	477	264.2	239.5	22.0	66.0	488.4	293.3	308.2	327.0	307.9	458.8	364.6	208.4	3348.0
21	478	82.9	30.7	22.6	140.5	209.7	327.8	311.5	334.9	450.4	538.5	284.5	130.9	2868.0
21	479	28.9	37.8	33.2	49.3	228.9	289.3	429.6	342.9	205.7	287.6	307.8	533.1	2775.0
21	480	278.6	105.1	85.6	192.8	234.8	253.1	97.6	225.4	248.7	407.5	659.0	827.3	3617.0
21	481	16.4	23.8	45.3	138.6	173.3	294.1	295.3	291.8	243.7	265.9	730.8	53.6	2573.0
21	482	9.3	1.5	19.4	52.1	256.0	411.3	439.0	349.9	327.2	430.5	429.7	112.7	2837.0
21	483	22.5	38.3	20.4	217.0	223.1	308.8	556.0	423.5	378.0	386.1	301.2	114.9	2990.0
21	484	46.0	76.5	58.3	87.2	348.8	226.7	391.5	446.7	344.8	393.2	371.4	77.8	2868.0
21	485	117.5	74.5	47.8	33.4	337.0	334.2	441.8	246.9	279.4	397.5	389.4	209.8	2908.0
21	486	19.1	16.9	126.6	58.0	200.3	384.1	322.5	227.4	248.4	275.4	267.9	201.3	2347.0
21	487	38.2	19.9	19.8	128.3	279.6	478.4	461.5	451.0	405.6	382.5	195.7	260.7	3121.0
21	488	33.1	9.5	45.8	137.9	259.5	283.5	437.4	322.1	335.7	540.6	393.4	235.8	3034.0
21	489	148.3	85.2	33.4	28.8	236.2	305.8	128.4	215.0	397.4	505.5	388.3	134.4	2605.0
21	490	28.8	25.3	26.6	95.1	270.2	335.6	281.4	369.0	257.2	225.3	437.4	158.3	2509.0
21	491	143.0	14.5	93.1	42.5	91.2	262.4	310.5	289.9	391.6	381.3	400.7	386.0	2806.0
21	492	103.7	55.6	87.1	85.5	253.6	427.3	314.1	396.9	217.8	341.3	252.5	46.6	2583.0
21	493	33.7	16.9	34.2	41.8	222.5	208.1	317.7	347.8	291.4	334.5	412.0	420.4	2682.0
21	494	125.5	62.1	55.7	90.2	224.9	208.9	257.3	218.3	353.9	395.7	660.6	597.4	3250.0
21	495	36.6	75.8	50.5	72.5	219.3	412.5	410.0	332.4	220.9	287.0	271.9	571.4	2960.0
21	496	206.2	51.2	197.6	135.2	480.9	387.3	395.8	325.9	285.7	376.8	414.3	377.6	3635.0
21	497	13.4	4.8	14.0	169.6	265.8	307.3	387.4	434.4	369.2	164.2	375.1	145.7	2650.0
21	498	7.7	26.6	25.2	94.3	308.5	398.3	404.7	350.4	348.4	318.6	500.8	779.3	3562.0
21	499	50.7	30.5	19.4	80.1	386.6	320.5	352.3	385.8	344.9	374.2	507.6	173.6	3027.0
21	500	273.8	105.4	19.2	210.3	369.7	333.6	237.3	203.2	284.7	379.0	357.6	160.7	2935.0

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MAXIMUM VOLUMES FOR PERIOD 5 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	278.6	239.5	197.6	573.2	551.0	544.4	566.7	501.5	495.3	624.6	762.4	827.3	827.3	2987.6	15292.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	2.0	1.5	1.4	17.2	91.2	134.6	72.4	171.2	191.9	164.2	177.5	33.8	1.4	345.5	10466.
STA 21 MONTH 1 MEAN	68.52	VARIANCE	3162.36	STAN. DEV.	56.23										
STA 21 MONTH 2 MEAN	43.84	VARIANCE	1660.99	STAN. DEV.	40.76										
STA 21 MONTH 3 MEAN	40.81	VARIANCE	1220.05	STAN. DEV.	34.93										
STA 21 MONTH 4 MEAN	131.50	VARIANCE	13400.15	STAN. DEV.	115.76										
STA 21 MONTH 5 MEAN	313.69	VARIANCE	10378.14	STAN. DEV.	101.87										
STA 21 MONTH 6 MEAN	320.67	VARIANCE	8299.47	STAN. DEV.	91.10										
STA 21 MONTH 7 MEAN	316.07	VARIANCE	12756.80	STAN. DEV.	112.95										
STA 21 MONTH 8 MEAN	315.18	VARIANCE	7426.16	STAN. DEV.	86.18										
STA 21 MONTH 9 MEAN	314.87	VARIANCE	5019.55	STAN. DEV.	70.85										
STA 21 MONTH 10 MEAN	360.31	VARIANCE	10161.52	STAN. DEV.	100.80										
STA 21 MONTH 11 MEAN	356.01	VARIANCE	16750.26	STAN. DEV.	129.42										
STA 21 MONTH 12 MEAN	228.53	VARIANCE	26832.89	STAN. DEV.	163.81										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 6

STA	21	MONTH	1	MEAN	0.002	STD	DEVO	0.055
STA	21	MONTH	2	MEAN	-0.010	STD	DEVO	0.059
STA	21	MONTH	3	MEAN	0.009	STD	DEVO	0.062
STA	21	MONTH	4	MEAN	0.000	STD	DEVO	0.064
STA	21	MONTH	5	MEAN	0.002	STD	DEVO	0.066
STA	21	MONTH	6	MEAN	-0.009	STD	DEVO	0.062
STA	21	MONTH	7	MEAN	-0.011	STD	DEVO	0.060
STA	21	MONTH	8	MEAN	-0.004	STD	DEVO	0.067
STA	21	MONTH	9	MEAN	0.003	STD	DEVO	0.062
STA	21	MONTH	10	MEAN	0.000	STD	DEVO	0.072
STA	21	MONTH	11	MEAN	0.004	STD	DEVO	0.062
STA	21	MONTH	12	MEAN	0.009	STD	DEVO	0.055

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	501	63.0	59.1	255.7	114.9	320.0	386.4	253.6	382.3	361.7	307.4	212.3	198.5	2914.0
21	502	95.6	68.0	62.8	126.1	227.8	336.8	52.2	286.0	267.7	481.6	238.7	158.6	2404.0
21	503	16.5	108.6	6.3	37.2	211.7	279.8	474.2	437.4	354.3	393.4	216.0	142.3	2676.0
21	504	1.5	65.0	76.9	59.2	265.5	379.4	224.3	315.9	334.7	407.8	357.9	349.4	2837.0
21	505	15.9	40.0	43.4	49.9	196.2	302.9	577.6	451.1	271.5	623.2	337.3	212.7	3122.0
21	506	79.9	60.4	23.9	193.6	465.1	429.2	393.0	437.3	469.2	300.5	506.3	519.9	3877.0
21	507	186.2	3.0	15.6	12.1	326.4	368.3	251.3	420.5	283.4	664.3	482.4	206.4	3217.0
21	508	86.5	29.3	168.7	94.1	305.7	429.4	447.6	368.9	277.8	290.1	331.0	48.7	2879.0
21	509	36.4	25.2	52.3	64.8	325.4	393.0	231.7	374.6	273.1	280.4	788.8	306.9	3152.0
21	510	64.3	101.2	35.0	24.0	133.4	348.7	449.3	358.6	304.2	271.0	270.1	80.7	2440.0
21	511	9.6	33.1	24.0	68.1	432.8	313.9	425.3	385.2	300.0	404.5	190.2	220.5	2806.0
21	512	135.2	51.8	40.1	244.8	318.4	254.7	271.9	258.3	285.2	239.4	382.3	263.9	2745.0
21	513	67.1	20.9	24.8	100.3	348.1	213.2	329.2	291.5	410.4	517.7	405.1	219.1	2946.0
21	514	25.8	59.0	98.0	47.9	313.6	429.4	201.8	141.2	214.2	363.7	257.9	208.3	2361.0
21	515	14.1	61.5	54.7	251.5	304.5	472.2	374.0	399.0	412.4	471.4	399.9	47.3	3262.0
21	516	63.9	71.2	21.3	254.4	331.2	439.1	403.1	269.3	430.4	284.0	304.4	448.9	3319.0
21	517	15.6	23.6	19.3	62.3	329.6	249.7	477.6	329.5	279.6	344.6	215.0	361.4	2709.0
21	518	40.4	16.8	32.1	149.4	404.6	233.5	421.4	309.6	351.3	297.0	269.1	288.2	2813.0
21	519	25.1	42.3	57.2	54.2	267.3	224.4	190.1	280.6	274.0	399.5	194.8	97.0	2106.0
21	520	51.8	25.9	40.2	12.7	493.0	372.0	463.8	365.5	317.7	277.0	309.6	100.0	2831.0
21	521	41.4	100.3	16.8	71.7	409.5	435.7	404.5	238.2	369.6	223.6	661.4	104.8	3077.0
21	522	114.9	12.1	7.6	143.0	266.9	287.8	408.6	316.8	401.9	335.3	380.5	111.3	2788.0
21	523	95.4	45.4	30.8	175.7	587.6	426.1	285.3	244.5	373.5	463.6	402.9	221.0	3351.0
21	524	13.2	3.2	12.8	135.0	259.5	270.3	334.9	179.5	241.3	437.7	394.7	122.1	2403.0
21	525	0.9	19.9	23.3	73.5	351.2	286.2	346.0	213.5	300.6	348.6	285.8	124.4	2374.0
21	526	68.8	16.3	6.2	25.8	165.7	194.1	156.1	341.5	329.3	455.3	303.2	389.5	2450.0
21	527	66.4	79.9	22.3	125.8	245.5	357.9	406.8	243.8	336.2	500.6	259.9	30.8	2677.0
21	528	26.7	3.5	28.4	150.7	453.2	311.7	253.6	246.2	310.0	239.0	399.4	328.9	2752.0
21	529	100.2	11.1	81.2	210.9	277.4	199.2	249.9	336.5	229.4	287.6	188.7	43.3	2214.0
21	530	10.1	33.2	17.8	195.3	315.9	515.0	324.3	326.8	216.3	277.5	353.5	123.8	2710.0
21	531	19.5	21.1	26.5	533.8	521.5	237.5	312.7	267.1	283.6	562.1	737.5	307.2	3831.0
21	532	125.7	92.7	37.5	99.7	337.9	333.8	368.9	383.8	192.6	444.1	395.2	259.2	3072.0
21	533	36.0	7.3	20.5	137.2	254.5	576.6	321.9	199.2	329.4	217.8	450.9	262.8	2813.0
21	534	90.0	120.3	59.2	126.9	288.8	353.8	200.1	319.4	287.0	391.2	266.4	276.8	2779.0
21	535	241.2	27.8	18.3	63.7	214.3	320.5	222.6	409.1	330.1	231.5	369.9	428.5	2877.0
21	536	13.3	2.2	5.1	81.8	303.6	350.3	282.9	341.1	375.6	469.6	363.3	204.6	2794.0
21	537	370.2	97.5	20.6	39.2	170.0	240.8	374.2	334.7	381.8	334.0	484.9	254.3	3102.0
21	538	137.9	6.0	34.6	174.7	350.7	416.0	409.2	415.3	274.9	425.7	331.0	528.4	3505.0
21	539	58.9	73.4	162.2	261.6	466.5	209.2	220.3	322.8	251.1	400.6	515.3	295.6	3238.0

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21	540	107.3	17.0	16.4	20.5	288.2	288.1	209.5	407.1	253.6	290.4	334.4	171.1	2402.0
21	541	71.9	42.0	18.6	14.0	227.7	451.8	396.7	524.8	301.3	408.0	255.5	78.2	2791.0
21	542	7.9	68.4	25.4	65.8	304.4	307.0	464.1	348.8	428.1	254.8	426.3	413.7	3114.0
21	543	22.8	24.5	25.5	73.6	284.9	198.1	117.6	141.7	294.4	263.9	352.7	74.4	1875.0
21	544	122.1	57.1	35.5	103.4	472.0	412.4	440.0	332.1	335.1	334.0	192.7	35.2	2871.0
21	545	234.1	104.0	120.7	125.7	420.8	295.7	405.8	381.7	204.7	377.3	348.6	677.4	3698.0
21	546	35.8	27.2	74.5	36.0	417.5	269.9	425.6	430.8	293.1	405.3	263.0	95.4	2774.0
21	547	65.8	33.3	18.6	51.0	311.0	381.7	452.4	464.8	274.4	515.4	349.7	191.2	3109.0
21	548	39.3	30.8	27.1	139.6	321.0	321.9	453.5	400.9	359.3	302.2	290.3	270.2	2955.0
21	549	106.1	72.1	51.9	24.0	172.7	253.7	478.4	380.1	300.3	394.4	289.4	121.1	2643.0
21	550	28.7	106.5	65.2	125.8	246.6	450.0	481.9	447.3	308.4	277.6	280.8	195.6	3016.0
21	551	45.6	38.5	45.2	64.1	178.0	301.1	268.3	204.6	251.9	529.3	207.6	72.2	2206.0
21	552	25.8	39.6	16.5	102.1	210.8	308.4	202.2	316.4	310.6	302.7	279.5	65.4	2180.0
21	553	86.7	132.2	24.1	75.5	270.9	220.1	233.0	275.8	388.2	337.2	487.2	273.6	2804.0
21	554	46.4	24.7	8.3	6.6	255.9	189.0	176.2	351.5	425.1	605.6	386.2	62.4	2537.0
21	555	193.8	23.5	27.4	100.3	237.9	425.2	191.1	229.6	266.2	359.9	220.7	302.7	2578.0
21	556	15.9	36.8	86.6	150.1	260.7	256.1	382.9	311.2	270.3	357.7	389.0	299.9	2818.0
21	557	45.8	38.9	8.4	346.9	479.1	303.7	155.2	213.8	376.7	426.7	305.1	220.5	2922.0
21	558	52.6	41.8	5.6	66.3	281.8	291.5	380.1	236.7	282.9	460.7	673.0	156.2	2931.0
21	559	82.1	18.7	28.5	159.7	260.6	334.3	304.2	164.7	356.3	414.3	230.2	286.2	2640.0
21	560	39.1	8.7	11.2	121.2	161.0	412.0	117.6	202.8	320.5	267.2	585.0	280.7	2528.0
21	561	83.5	7.6	10.0	28.1	387.0	199.7	230.2	228.3	291.9	351.8	426.6	409.2	2655.0
21	562	41.1	32.3	25.0	94.9	449.1	237.5	258.0	379.5	314.7	329.0	519.8	140.4	2821.0
21	563	171.1	82.3	144.2	420.7	321.9	233.2	257.5	396.2	352.0	358.6	541.7	233.2	3513.0
21	564	5.2	16.5	70.1	39.3	245.4	303.2	278.3	363.2	254.4	206.8	241.5	389.9	2413.0
21	565	90.9	42.5	70.1	194.2	282.7	289.5	376.0	303.3	493.5	288.1	353.6	216.1	3000.0
21	566	108.2	10.2	13.8	71.8	224.3	382.6	522.8	249.7	213.7	369.8	304.4	545.1	3017.0
21	567	54.3	26.0	41.9	65.7	156.0	321.7	325.7	251.4	386.9	321.0	437.6	495.3	2884.0
21	568	105.2	63.7	17.1	53.6	347.6	316.0	332.1	305.8	265.9	336.2	260.0	355.2	2759.0
21	569	35.8	16.3	50.3	98.0	236.0	295.8	461.6	347.8	301.0	452.1	326.6	247.1	2869.0
21	570	85.4	3.0	15.6	335.7	417.9	289.8	436.4	356.8	270.9	249.1	273.1	335.5	3069.0
21	571	35.2	120.8	28.4	62.8	319.2	417.3	478.8	381.3	204.6	210.3	235.2	102.8	2596.0
21	572	92.4	136.5	73.0	118.4	161.0	298.6	333.5	272.5	329.8	289.3	419.3	52.6	2576.0
21	573	215.0	98.1	33.6	87.0	494.3	546.9	297.9	451.2	447.6	444.9	620.6	48.5	3786.0
21	574	24.3	21.1	6.6	42.7	163.1	245.8	236.4	281.4	303.7	382.8	415.8	381.5	2506.0
21	575	243.3	43.2	26.7	518.4	453.1	286.5	218.2	228.2	341.1	332.1	203.4	272.6	3166.0
21	576	92.1	103.8	120.8	110.5	288.8	255.7	240.9	281.7	245.8	498.0	290.0	186.4	2716.0
21	577	71.0	62.7	19.0	154.0	468.7	363.8	261.0	329.5	310.9	549.1	382.0	224.2	3196.0
21	578	62.4	27.1	16.4	140.5	187.7	279.9	271.9	191.2	380.7	354.4	385.8	211.0	2508.0
21	579	14.4	58.2	48.3	402.1	366.9	216.0	351.4	309.4	345.0	394.4	235.3	202.8	2942.0
21	580	72.1	37.8	60.8	61.9	316.6	361.7	171.8	385.4	426.1	367.5	331.5	171.3	2765.0
21	581	226.0	93.6	6.9	92.2	332.2	406.0	543.9	423.1	266.5	283.6	336.5	427.5	3438.0
21	582	76.5	44.6	24.8	353.3	367.8	381.2	228.3	368.9	306.9	306.2	380.8	127.5	2968.0
21	583	88.3	27.5	16.3	89.0	446.9	551.3	502.6	457.2	347.1	304.7	354.6	163.4	3348.0
21	584	24.5	25.0	23.5	221.3	363.2	284.0	120.3	302.4	407.6	216.6	377.8	47.0	2413.0
21	585	126.8	10.0	31.9	137.4	307.6	357.5	257.1	234.3	219.1	281.2	373.4	250.1	2586.0
21	586	30.0	24.6	14.1	147.0	300.4	352.6	335.6	315.7	260.6	336.5	236.5	304.9	2661.0
21	587	26.5	38.4	10.1	129.5	358.9	198.9	325.2	271.6	362.9	219.7	279.3	454.6	2675.0
21	588	46.1	15.3	28.4	110.7	369.2	387.8	339.2	353.7	326.0	308.5	624.0	313.0	3221.0
21	589	34.4	57.7	32.0	325.1	329.5	241.9	231.9	357.1	391.2	380.4	482.2	197.3	3059.0
21	590	104.9	34.3	140.5	360.5	394.0	303.8	351.2	258.7	246.1	299.4	440.3	237.8	3172.0
21	591	34.2	50.7	64.6	222.4	349.7	399.9	257.1	229.3	232.5	368.9	307.1	202.3	2719.0
21	592	29.3	25.8	83.0	45.2	128.5	142.0	233.7	246.1	351.9	454.5	314.0	12.5	2065.0
21	593	26.8	13.2	15.4	80.5	327.9	371.1	272.4	412.4	341.5	402.3	330.2	172.3	2763.0

21	594	37.4	24.6	54.4	263.3	360.2	342.8	392.2	255.0	228.3	310.4	478.0	83.5	2828.0
21	595	43.0	10.4	6.5	70.1	464.0	418.9	172.4	212.3	356.4	391.7	291.9	126.0	2563.0
21	596	84.4	114.2	62.0	52.6	293.2	246.9	216.6	303.6	316.4	230.6	233.5	222.8	2377.0
21	597	72.2	55.4	41.7	67.3	303.7	335.6	301.6	236.9	298.4	385.9	364.9	500.0	2964.0
21	598	17.7	8.1	58.0	59.2	217.5	214.3	248.4	283.2	409.1	441.9	502.0	153.8	2612.0
21	599	61.7	6.5	23.1	356.9	417.3	232.8	385.0	348.8	335.5	560.8	275.2	102.2	3106.0
21	600	35.3	30.1	19.0	133.1	398.9	215.8	284.4	272.3	399.1	296.1	375.3	112.9	2571.0

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MAXIMUM VOLUMES FOR PERIOD 6 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	370.2	136.5	255.7	533.8	587.6	576.6	577.6	524.8	493.5	664.3	788.8	677.4	788.8	2809.0	15602.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	0.9	2.2	5.1	6.6	128.5	142.0	52.2	141.2	192.6	206.8	188.7	12.5	0.9	306.2	10507.
STA 21 MONTH 1 MEAN	70.94	VARIANCE	3974.85	STAN. DEV.	63.05										
STA 21 MONTH 2 MEAN	44.14	VARIANCE	1143.80	STAN. DEV.	33.82										
STA 21 MONTH 3 MEAN	41.54	VARIANCE	1635.24	STAN. DEV.	40.44										
STA 21 MONTH 4 MEAN	131.03	VARIANCE	11980.46	STAN. DEV.	109.46										
STA 21 MONTH 5 MEAN	313.44	VARIANCE	10143.77	STAN. DEV.	100.72										
STA 21 MONTH 6 MEAN	321.61	VARIANCE	8602.59	STAN. DEV.	92.75										
STA 21 MONTH 7 MEAN	315.87	VARIANCE	12757.65	STAN. DEV.	112.95										
STA 21 MONTH 8 MEAN	314.73	VARIANCE	7312.04	STAN. DEV.	85.51										
STA 21 MONTH 9 MEAN	313.72	VARIANCE	4980.31	STAN. DEV.	70.57										
STA 21 MONTH 10 MEAN	361.17	VARIANCE	10877.52	STAN. DEV.	104.30										
STA 21 MONTH 11 MEAN	355.46	VARIANCE	16106.50	STAN. DEV.	126.91										
STA 21 MONTH 12 MEAN	225.58	VARIANCE	18652.53	STAN. DEV.	136.57										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 7

STA 21 MONTH 1	MEAN-0.010	STD DEVO.065
STA 21 MONTH 2	MEAN 0.003	STD DEVO.062
STA 21 MONTH 3	MEAN-0.002	STD DEVO.069
STA 21 MONTH 4	MEAN 0.000	STD DEVO.066
STA 21 MONTH 5	MEAN 0.003	STD DEVO.060
STA 21 MONTH 6	MEAN 0.003	STD DEVO.067
STA 21 MONTH 7	MEAN 0.004	STD DEVO.069
STA 21 MONTH 8	MEAN 0.002	STD DEVO.062
STA 21 MONTH 9	MEAN 0.010	STD DEVO.074
STA 21 MONTH 10	MEAN 0.002	STD DEVO.063
STA 21 MONTH 11	MEAN 0.006	STD DEVO.055
STA 21 MONTH 12	MEAN-0.009	STD DEVO.062

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	601	19.9	14.5	13.0	180.0	300.3	491.1	417.8	353.2	328.0	265.9	273.3	55.6	2713.0
21	602	126.0	37.5	65.4	121.5	320.5	417.1	344.9	230.2	291.0	287.5	197.5	294.3	2731.0
21	603	212.2	22.9	15.5	166.8	592.6	367.0	450.1	232.5	202.0	293.2	356.8	235.7	3148.0
21	604	28.3	7.8	32.2	17.8	242.4	287.9	257.4	263.2	254.9	227.6	472.9	361.8	2454.0
21	605	34.1	57.6	10.3	148.7	237.4	371.5	331.0	431.5	318.8	431.5	336.9	71.4	2781.0
21	606	50.4	142.1	179.3	87.9	232.0	293.0	326.1	391.4	314.6	384.0	239.6	262.3	2902.0
21	607	178.1	12.1	5.5	72.8	151.5	367.7	453.5	265.1	375.8	496.4	413.4	148.0	2941.0
21	608	45.5	48.0	18.7	239.9	408.5	203.9	220.9	344.2	342.8	386.3	250.7	176.7	2687.0
21	609	17.4	5.2	12.9	32.6	262.6	236.5	221.5	416.0	412.7	374.4	582.8	331.7	2907.0
21	610	74.5	73.7	26.1	41.5	343.2	238.1	162.3	273.1	338.6	275.7	319.2	33.2	2200.0

21	611	17.6	14.9	55.4	274.6	489.5	233.0	141.2	248.5	263.0	343.2	603.7	257.5	2943.0
21	612	22.9	35.1	9.6	79.4	311.9	197.5	508.3	454.0	282.0	271.0	528.6	257.2	2957.0
21	613	36.7	8.4	13.0	270.0	310.4	352.2	187.6	274.5	366.4	377.6	262.7	22.0	2481.0
21	614	60.5	68.7	12.9	104.8	327.8	326.7	230.1	303.7	332.1	484.0	485.9	526.5	3264.0
21	615	402.6	84.3	48.3	457.5	525.1	227.4	233.6	284.8	345.1	460.8	338.5	264.4	3672.0
21	616	239.6	115.6	35.5	384.4	318.1	228.7	321.2	331.6	331.0	251.0	246.4	217.6	3022.0
21	617	24.5	14.6	41.9	43.8	412.3	345.0	462.1	332.3	191.6	344.1	402.3	222.9	2837.0
21	618	65.7	26.6	53.7	96.2	252.9	174.4	192.0	347.5	316.4	401.0	267.0	182.1	2376.0
21	619	42.9	5.8	13.9	115.3	281.1	330.6	432.8	413.9	242.8	371.3	345.3	393.4	2989.0
21	620	88.9	10.1	28.0	174.7	438.2	221.2	201.3	336.2	333.1	327.0	367.5	253.7	2779.0
21	621	17.0	45.1	60.2	69.2	493.2	392.1	425.7	270.3	313.1	295.2	391.8	161.9	2934.0
21	622	66.1	32.2	39.8	27.1	286.2	415.7	263.5	337.1	272.7	313.4	522.4	159.3	2734.0
21	623	30.7	25.1	26.9	294.4	218.2	412.7	174.1	350.8	241.2	388.7	230.1	138.3	2531.0
21	624	121.4	91.7	70.2	107.1	406.4	489.3	279.0	347.3	318.9	351.4	267.6	173.5	3022.0
21	625	14.6	22.3	8.7	238.4	195.7	251.5	127.5	240.4	239.5	391.8	383.2	476.9	2591.0
21	626	71.1	25.3	170.8	103.3	352.5	310.2	437.6	331.0	262.8	394.6	306.5	158.3	2923.0
21	627	54.8	52.7	112.8	35.4	310.3	256.3	339.9	509.4	283.8	281.7	357.3	125.1	2719.0
21	628	82.0	46.8	76.4	215.0	499.8	292.1	290.6	343.4	286.6	359.9	330.7	196.7	3021.0
21	629	41.1	15.7	5.5	182.8	241.9	309.9	392.2	305.8	401.0	465.7	254.2	336.0	2953.0
21	630	103.0	35.3	7.1	93.9	451.1	259.7	559.4	359.1	258.0	387.3	300.7	166.1	2980.0
21	631	49.0	17.3	22.2	150.2	191.7	200.3	247.8	337.7	311.7	258.6	315.1	126.6	2229.0
21	632	55.9	74.1	63.6	147.0	379.0	390.0	494.1	378.6	468.6	425.0	210.2	350.5	3438.0
21	633	92.4	60.5	43.8	115.1	408.0	336.4	418.3	322.6	275.1	483.5	249.5	100.9	2906.0
21	634	7.9	31.8	36.3	87.8	245.2	472.6	277.2	284.9	366.9	275.4	364.9	101.6	2553.0
21	635	8.8	8.3	26.2	46.4	180.9	325.9	563.7	327.2	283.5	384.6	291.3	159.4	2606.0
21	636	27.3	21.8	7.1	210.6	297.9	382.0	386.3	199.0	441.6	579.8	208.4	62.3	2824.0
21	637	16.4	12.6	122.7	47.6	299.9	323.3	463.9	279.2	343.5	292.6	300.7	160.8	2665.0
21	638	40.5	8.0	59.1	70.2	165.2	234.6	374.5	308.7	371.9	349.7	257.9	357.8	2598.0
21	639	100.9	39.0	175.2	23.1	331.3	419.9	486.9	439.2	281.7	220.7	374.0	396.9	3289.0
21	640	34.9	22.7	93.4	122.2	296.8	379.4	178.4	347.1	306.9	281.3	677.4	460.6	3200.0
21	641	30.8	92.9	69.2	259.6	328.0	251.4	140.9	135.9	362.2	334.9	322.4	107.5	2436.0
21	642	6.6	0.8	5.6	15.9	260.1	527.0	371.2	430.7	441.7	373.4	262.9	132.6	2830.0
21	643	114.7	39.7	79.1	99.4	202.2	277.3	229.2	206.3	219.5	250.3	362.4	174.4	2253.0
21	644	21.2	14.7	9.2	203.4	330.5	239.5	263.8	274.0	338.2	175.4	448.0	726.0	3042.0
21	645	435.7	19.0	20.1	374.2	337.3	314.8	328.0	309.4	375.9	396.5	339.2	283.3	3532.0
21	646	50.0	21.9	42.8	37.5	288.8	309.6	336.6	465.0	409.1	330.7	296.5	135.4	2726.0
21	647	62.9	33.0	16.4	56.7	263.7	417.5	333.5	190.1	279.2	322.8	639.1	723.2	3338.0
21	648	175.1	82.0	66.6	48.1	223.7	146.6	215.7	215.7	350.3	557.0	709.4	89.6	2881.0
21	649	40.2	46.3	45.8	23.5	243.5	302.7	278.0	223.3	260.5	553.4	186.9	51.5	2256.0
21	650	3.1	20.4	16.5	73.8	399.5	401.4	335.7	332.5	357.5	439.0	252.8	106.1	2739.0
21	651	62.9	19.5	64.4	40.2	272.1	539.9	426.8	412.0	327.4	328.8	277.2	186.0	2957.0
21	652	127.4	57.1	30.0	151.2	230.9	398.8	487.8	392.7	334.9	391.0	230.6	351.3	3184.0
21	653	120.5	46.5	11.8	158.7	346.6	419.6	193.6	242.4	340.9	406.3	334.3	98.4	2720.0
21	654	28.8	125.6	23.0	40.7	348.6	308.3	178.9	204.9	265.8	280.3	367.1	170.0	2343.0
21	655	33.8	19.4	38.8	79.1	477.2	409.3	470.5	453.4	323.4	202.0	484.1	165.0	3155.0
21	656	17.2	48.3	46.0	65.5	262.1	425.9	302.7	333.9	420.0	430.0	352.9	430.5	3135.0
21	657	139.5	31.8	9.7	66.6	285.4	166.7	191.8	371.1	393.6	419.4	276.1	129.1	2481.0
21	658	41.9	26.4	30.0	76.7	320.2	284.5	390.0	264.6	231.9	405.5	286.8	408.4	2766.0
21	659	23.7	94.2	16.4	5.9	186.9	320.8	274.7	388.0	322.2	409.3	463.7	338.3	2844.0
21	660	90.6	85.4	31.1	67.9	413.5	294.6	419.8	222.8	313.8	274.6	217.3	148.1	2581.0
21	661	28.5	34.9	14.1	54.4	185.0	340.0	362.0	298.8	302.1	411.2	485.9	388.6	2905.0
21	662	101.1	54.8	30.9	49.4	183.3	289.9	182.7	321.6	333.1	552.1	542.7	154.7	2797.0
21	663	126.0	49.4	24.7	48.1	384.3	375.5	314.4	204.1	277.2	287.3	713.0	592.1	3394.0
21	664	83.6	187.2	53.9	336.8	440.4	369.1	308.8	278.6	328.6	420.5	452.7	78.9	3340.0

21	665	9.1	13.9	49.5	65.8	285.9	376.7	467.2	414.1	180.1	346.1	287.6	52.1	2549.0
21	666	45.2	25.0	29.6	107.6	400.4	374.0	342.1	358.1	287.1	460.8	733.0	204.4	3367.0
21	667	50.5	18.6	24.5	196.7	340.1	345.1	404.6	370.6	322.6	475.8	288.4	652.3	3491.0
21	668	171.1	17.1	61.4	149.5	342.8	250.4	158.6	239.2	328.7	378.6	303.2	239.5	2641.0
21	669	88.4	254.1	48.0	116.6	370.4	249.0	405.6	397.4	270.3	221.4	401.7	341.3	3163.0
21	670	103.3	74.3	42.4	45.2	282.8	106.7	307.2	260.2	389.0	280.3	343.3	108.5	2341.0
21	671	170.2	6.1	10.5	44.0	225.3	428.6	459.4	402.2	327.1	237.9	339.8	29.1	2679.0
21	672	103.8	91.1	22.0	77.0	346.7	230.5	315.2	342.4	336.7	389.0	453.6	102.9	2812.0
21	673	62.2	52.7	17.5	35.7	242.1	518.0	461.9	299.6	474.0	405.2	352.1	284.3	3205.0
21	674	90.3	27.8	56.4	285.8	462.1	336.2	461.2	528.2	258.6	463.0	530.1	494.1	3993.0
21	675	5.6	19.3	4.3	158.9	362.9	250.7	459.2	315.4	496.3	519.5	316.3	286.8	3194.0
21	676	43.9	187.1	37.4	105.5	416.4	375.7	359.7	283.0	265.1	346.9	207.9	161.7	2790.0
21	677	38.7	63.9	22.8	128.9	382.3	233.5	397.4	287.1	259.2	582.5	345.1	228.4	2968.0
21	678	150.8	40.4	8.6	14.8	264.0	392.5	349.1	313.2	249.7	285.4	253.2	73.8	2396.0
21	679	51.8	28.8	21.6	271.9	322.0	383.3	392.2	318.9	338.4	201.7	448.3	437.9	3217.0
21	680	78.7	48.1	74.4	97.4	221.8	286.2	233.5	262.3	228.3	375.6	379.0	252.0	2536.0
21	681	32.5	30.2	31.0	142.8	190.9	336.6	276.9	418.8	396.5	441.2	339.5	134.2	2772.0
21	682	89.3	113.3	18.8	123.4	423.4	208.2	82.0	139.8	318.2	288.6	380.6	98.5	2284.0
21	683	95.4	65.5	78.9	86.4	458.5	314.4	408.8	455.1	369.8	430.2	199.3	227.2	3188.0
21	684	105.0	24.4	71.8	106.5	427.8	341.0	224.2	424.8	248.6	318.6	567.0	106.2	2967.0
21	685	38.0	23.2	19.4	131.9	226.0	439.6	310.5	273.8	301.1	231.3	570.0	201.5	2765.0
21	686	27.7	40.0	46.3	203.1	222.2	399.4	290.4	354.9	263.4	287.8	447.1	141.8	2723.0
21	687	65.7	69.1	19.5	79.0	186.7	234.9	278.3	260.3	337.0	208.6	302.0	227.6	2270.0
21	688	40.7	49.4	5.1	473.6	418.2	401.0	356.2	331.3	252.8	324.6	262.9	182.1	3098.0
21	689	152.5	18.6	21.4	230.8	459.9	343.1	182.5	344.9	210.8	516.2	229.3	327.3	3037.0
21	690	18.9	8.2	38.2	65.0	243.5	375.7	298.6	414.8	284.9	392.0	260.0	306.9	2708.0
21	691	67.1	36.7	53.1	556.1	495.6	264.1	203.9	356.4	366.6	431.6	341.4	88.3	3261.0
21	692	6.3	15.8	38.5	61.5	224.6	326.5	121.2	180.8	362.9	424.5	266.7	20.8	2051.0
21	693	32.6	28.6	23.2	153.0	269.4	331.2	162.5	260.2	300.6	314.4	291.8	258.3	2425.0
21	694	25.8	6.5	7.5	24.9	135.4	215.6	374.5	351.7	367.2	347.9	515.2	262.6	2636.0
21	695	121.5	25.6	37.4	54.1	310.5	359.2	193.0	310.1	392.3	307.1	196.0	135.5	2440.0
21	696	6.8	36.5	46.4	277.4	320.1	262.7	215.3	286.8	226.0	386.8	423.0	329.1	2817.0
21	697	18.1	99.1	71.0	70.0	159.8	283.4	353.1	221.9	267.9	186.8	233.6	80.6	2046.0
21	698	52.6	21.1	55.6	98.0	517.4	273.9	310.6	195.9	261.9	364.4	275.2	111.7	2539.0
21	699	33.3	32.4	150.5	337.3	243.3	319.3	242.5	262.6	434.9	625.0	350.0	358.7	3388.0
21	700	136.4	43.5	31.9	132.6	316.1	337.3	396.0	183.1	375.5	428.3	371.8	167.6	2920.0

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MAXIMUM VOLUMES FOR PERIOD 7 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	435.7	254.1	179.3	556.1	592.6	539.9	563.7	528.2	496.3	625.0	733.0	726.0	733.0	2735.2	15516.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	3.1	0.8	4.3	5.9	135.4	106.7	82.0	135.9	180.1	175.4	186.9	20.8	0.8	352.2	10328.
STA 21 MONTH 1 MEAN	70.84	VARIANCE	4940.91	STAN.	DEV.	70.29									
STA 21 MONTH 2 MEAN	44.57	VARIANCE	1747.55	STAN.	DEV.	41.80									
STA 21 MONTH 3 MEAN	40.80	VARIANCE	1293.54	STAN.	DEV.	35.97									
STA 21 MONTH 4 MEAN	131.07	VARIANCE	11738.26	STAN.	DEV.	108.34									
STA 21 MONTH 5 MEAN	314.24	VARIANCE	10632.69	STAN.	DEV.	103.11									
STA 21 MONTH 6 MEAN	320.62	VARIANCE	8296.44	STAN.	DEV.	91.08									
STA 21 MONTH 7 MEAN	314.73	VARIANCE	12932.00	STAN.	DEV.	113.72									
STA 21 MONTH 8 MEAN	315.54	VARIANCE	7170.68	STAN.	DEV.	84.68									
STA 21 MONTH 9 MEAN	313.96	VARIANCE	5013.90	STAN.	DEV.	70.81									

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STA 21 MONTH 10 MEAN 359.83 VARIANCE 10270.71 STAN. DEV. 101.34
 STA 21 MONTH 11 MEAN 356.22 VARIANCE 16820.45 STAN. DEV. 129.69
 STA 21 MONTH 12 MEAN 226.55 VARIANCE 22544.13 STAN. DEV. 150.15

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 8

STA 21 MONTH 1 MEAN-0.008 STD DEVO.059
 STA 21 MONTH 2 MEAN 0.002 STD DEVO.067
 STA 21 MONTH 3 MEAN 0.006 STD DEVO.064
 STA 21 MONTH 4 MEAN 0.002 STD DEVO.064
 STA 21 MONTH 5 MEAN-0.010 STD DEVO.065
 STA 21 MONTH 6 MEAN-0.007 STD DEVO.063
 STA 21 MONTH 7 MEAN 0.004 STD DEVO.063
 STA 21 MONTH 8 MEAN 0.004 STD DEVO.065
 STA 21 MONTH 9 MEAN-0.004 STD DEVO.062
 STA 21 MONTH 10 MEAN 0.005 STD DEVO.054
 STA 21 MONTH 11 MEAN 0.004 STD DEVO.059
 STA 21 MONTH 12 MEAN 0.006 STD DEVO.054

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	701	10.3	26.4	37.9	55.3	573.4	272.5	123.0	282.6	202.5	418.4	362.2	267.3	2630.0
21	702	199.2	66.0	39.1	81.1	340.6	225.5	326.8	286.0	349.1	288.5	434.4	614.4	3250.0
21	703	39.8	22.5	16.9	39.4	286.3	247.7	462.5	367.0	216.4	360.8	502.0	66.7	2629.0
21	704	3.2	6.6	19.1	96.9	342.9	286.0	348.7	392.1	399.2	405.5	340.1	847.9	3488.0
21	705	152.6	24.0	10.3	22.8	200.0	378.8	333.5	395.3	294.3	473.4	350.3	367.8	3002.0
21	706	8.1	43.6	51.6	131.6	423.8	366.7	440.7	294.8	378.4	368.5	599.7	209.9	3319.0
21	707	117.1	162.6	93.0	287.0	230.5	270.8	339.4	246.0	361.1	514.3	371.9	302.8	3296.0
21	708	23.7	20.5	5.2	104.8	282.2	244.7	463.9	274.5	272.9	345.2	321.5	229.7	2589.0
21	709	62.5	22.7	3.6	58.8	434.0	349.5	586.4	364.3	363.0	277.3	259.3	44.4	2825.0
21	710	110.2	30.5	18.1	103.2	300.6	435.9	338.7	445.3	227.2	409.4	470.8	96.9	2987.0
21	711	36.2	31.6	20.5	84.5	188.2	189.4	85.3	233.2	243.6	354.0	236.5	331.1	2034.0
21	712	85.3	41.9	29.9	333.5	459.0	392.6	309.8	337.0	298.5	173.9	224.7	589.8	3277.0
21	713	167.8	124.8	42.9	237.8	316.2	391.1	398.4	199.6	349.6	379.0	710.0	145.3	3463.0
21	714	40.8	85.7	11.7	275.3	294.1	413.7	470.4	323.9	360.6	286.5	274.7	217.6	3057.0
21	715	49.0	22.8	13.5	113.4	381.6	408.7	507.7	309.4	447.5	403.7	333.3	144.4	3134.0
21	716	45.5	33.2	39.5	105.9	316.3	423.3	419.0	389.4	271.7	299.1	416.2	323.2	3081.0
21	717	113.1	59.7	7.2	26.4	214.7	461.4	388.4	314.0	350.5	316.5	291.4	115.1	2658.0
21	718	177.6	72.9	39.4	52.5	427.4	418.7	475.4	343.0	256.8	284.7	358.8	168.2	3076.0
21	719	57.9	53.8	19.2	24.1	255.7	284.7	146.4	205.0	457.1	223.1	269.2	111.2	2107.0
21	720	60.5	20.2	26.9	34.5	271.2	234.9	324.5	313.3	276.0	287.9	239.9	262.1	2352.0
21	721	222.8	27.9	20.5	73.0	205.7	277.2	262.1	386.0	295.6	475.3	362.6	159.2	2768.0
21	722	35.6	10.1	1.4	87.0	180.7	240.6	393.2	456.3	493.4	449.6	221.1	466.2	3035.0
21	723	32.4	33.5	28.2	48.8	398.5	207.2	185.1	230.6	325.6	221.8	492.6	82.7	2288.0
21	724	57.2	97.5	49.4	59.7	235.0	382.1	294.7	259.0	324.4	409.2	402.4	163.6	2734.0
21	725	58.1	10.0	88.2	282.9	330.6	201.0	173.1	350.4	364.9	337.7	369.9	185.8	2753.0
21	726	62.9	6.5	15.2	81.4	277.9	371.3	180.4	247.7	401.7	616.6	267.6	231.3	2761.0
21	727	25.8	35.2	45.6	57.7	310.3	304.5	91.3	300.5	356.5	241.2	468.4	159.1	2394.0
21	728	12.8	14.4	31.1	15.6	350.9	154.6	157.3	284.4	244.7	517.2	352.4	245.0	2380.0
21	729	10.4	12.7	6.8	223.4	214.0	280.7	191.0	261.3	316.2	437.6	467.6	151.4	2573.0
21	730	47.8	30.6	26.4	291.4	261.2	292.6	419.5	339.0	297.5	497.3	269.6	420.9	3195.0
21	731	126.4	145.5	146.0	89.5	222.8	292.6	444.7	388.2	317.5	517.4	328.4	29.8	3048.0
21	732	24.3	82.2	12.7	63.4	282.6	292.1	386.8	259.0	201.4	224.1	552.9	302.1	2683.0
21	733	64.6	80.1	62.0	71.1	271.8	368.5	281.1	497.5	248.5	356.3	351.2	315.3	2967.0
21	734	14.2	17.6	18.6	43.5	350.8	470.4	177.6	169.2	340.2	331.2	632.8	200.5	2767.0
21	735	38.6	50.7	19.5	16.6	266.3	322.4	206.0	369.7	282.4	435.9	523.9	312.5	2845.0

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21	736	97.9	20.4	13.9	152.7	322.5	329.5	289.1	252.7	307.6	271.6	505.8	147.1	2712.0
21	737	24.1	61.0	30.1	48.5	267.9	436.1	338.0	304.0	394.5	367.7	383.0	267.6	2923.0
21	738	4.2	20.5	92.1	192.1	302.1	417.3	356.3	272.3	235.8	270.6	479.8	143.2	2785.0
21	739	207.0	33.1	17.4	118.7	421.6	423.4	379.7	195.8	209.4	218.0	291.7	288.9	2805.0
21	740	233.6	79.7	37.5	16.2	244.5	333.3	238.2	315.0	262.6	415.7	208.5	497.9	2882.0
21	741	152.9	38.7	24.7	389.6	626.9	262.1	499.7	503.1	374.6	580.9	192.9	85.7	3734.0
21	742	29.7	7.9	9.8	19.6	201.5	273.1	268.3	292.8	340.0	435.9	451.7	592.4	2923.0
21	743	62.8	32.2	150.3	226.3	304.1	251.9	186.9	315.1	295.3	190.4	481.8	310.0	2806.0
21	744	173.3	125.6	37.8	84.4	243.5	274.9	267.6	225.2	436.1	335.6	347.5	233.6	2787.0
21	745	97.3	22.8	41.5	305.4	400.0	268.3	333.0	315.1	465.8	439.1	350.0	204.7	3243.0
21	746	39.2	20.2	37.4	23.4	235.4	291.9	129.0	340.6	308.4	402.0	339.5	66.8	2233.0
21	747	91.1	56.5	122.9	129.1	215.2	368.8	299.2	346.6	344.8	246.4	387.9	246.6	2856.0
21	748	56.8	70.7	19.3	118.1	361.7	203.5	433.4	466.3	317.2	354.0	322.5	556.2	3279.0
21	749	147.7	7.8	21.7	122.1	410.2	486.4	433.5	282.4	265.6	345.2	517.0	252.2	3292.0
21	750	67.4	30.1	100.3	131.8	385.8	241.3	398.0	324.8	279.7	389.5	277.6	260.4	2886.0
21	751	39.3	20.0	23.4	288.2	616.8	416.8	481.4	389.7	275.2	364.9	310.7	99.7	3326.0
21	752	36.8	29.2	62.1	138.5	285.8	176.0	318.9	420.8	197.2	361.0	206.4	332.0	2565.0
21	753	13.5	39.8	39.9	94.6	349.5	266.0	187.1	178.0	267.1	379.5	371.0	118.3	2303.0
21	754	36.1	17.5	38.6	86.2	341.2	324.0	301.6	249.0	308.5	241.0	480.2	118.7	2543.0
21	755	59.1	12.3	32.5	144.7	201.4	353.5	244.9	353.8	202.5	268.7	576.1	177.8	2628.0
21	756	22.4	35.6	31.6	163.5	401.5	319.8	358.3	337.9	279.4	550.8	366.9	123.2	2992.0
21	757	88.1	38.1	94.5	97.9	233.6	271.3	388.6	418.8	330.0	482.7	312.9	294.2	3051.0
21	758	49.3	145.9	125.8	165.5	311.9	346.7	215.1	214.1	279.3	436.9	347.2	127.0	2765.0
21	759	77.2	73.9	70.1	126.3	404.6	258.4	177.8	190.9	336.9	333.3	354.5	118.5	2523.0
21	760	38.2	94.3	14.9	10.5	106.2	298.9	221.8	336.4	389.2	352.9	165.7	97.8	2127.0
21	761	18.5	19.5	21.1	122.1	372.8	274.6	457.4	378.8	352.7	361.5	323.6	139.6	2844.0
21	762	36.0	64.5	81.8	133.0	345.4	369.1	202.7	191.1	290.3	467.4	230.9	141.7	2554.0
21	763	14.5	8.1	16.6	328.1	465.8	195.6	163.0	325.2	340.1	317.0	295.2	261.7	2731.0
21	764	189.1	69.1	16.3	97.9	239.0	258.6	306.5	316.0	215.8	217.3	407.5	248.3	2581.0
21	765	85.9	49.3	19.8	103.1	329.9	302.6	186.9	267.0	342.2	392.6	557.9	83.3	2721.0
21	766	11.9	70.5	18.6	42.6	188.7	290.0	271.8	410.7	374.1	509.2	280.8	191.8	2663.0
21	767	8.9	29.6	101.8	190.3	242.8	390.6	355.1	348.3	471.3	324.3	277.9	134.6	2876.0
21	768	44.6	23.5	36.0	196.4	226.6	317.8	250.0	394.5	262.0	379.6	266.7	59.8	2459.0
21	769	25.7	12.2	46.8	84.2	527.2	386.1	339.9	346.2	254.1	283.1	203.0	333.5	2841.0
21	770	67.0	71.5	38.4	110.0	447.3	337.9	181.8	259.2	273.0	192.0	459.1	605.8	3042.0
21	771	40.6	14.8	44.0	518.0	452.5	446.1	174.6	141.5	289.5	370.9	334.7	86.6	2916.0
21	772	13.5	35.4	4.7	73.8	286.5	291.4	247.7	225.9	232.7	435.1	400.7	101.9	2350.0
21	773	110.7	8.7	36.7	47.8	364.9	335.3	469.5	363.7	372.4	375.0	210.1	139.6	2836.0
21	774	303.0	185.5	32.4	53.1	282.3	349.5	421.1	346.6	340.3	263.0	397.2	499.4	3472.0
21	775	20.6	4.2	16.0	17.8	332.7	447.2	217.4	381.3	404.6	446.2	261.6	128.1	2678.0
21	776	89.5	17.8	65.6	179.0	218.8	280.8	379.1	377.1	337.9	276.4	317.5	57.5	2598.0
21	777	9.1	12.6	7.7	80.6	233.6	272.5	475.5	491.4	322.4	525.5	363.8	204.2	2998.0
21	778	142.5	25.8	10.8	152.2	252.6	219.5	282.4	349.4	259.8	330.1	174.5	50.0	2248.0
21	779	26.0	62.1	87.9	290.3	266.1	201.4	250.4	238.3	317.5	534.2	314.6	66.3	2654.0
21	780	64.4	8.1	18.7	106.5	199.0	553.1	485.1	313.7	264.3	477.9	322.2	105.0	2917.0
21	781	14.3	12.4	72.1	84.8	361.5	218.8	271.5	383.9	328.2	288.5	165.5	163.4	2364.0
21	782	131.4	11.3	25.9	115.8	343.2	259.9	308.7	346.1	403.5	495.4	516.0	1064.6	4022.0
21	783	160.5	50.3	144.1	320.7	262.6	286.3	287.9	359.2	386.4	379.9	360.7	623.7	3623.0
21	784	234.2	35.7	115.5	85.4	226.2	362.6	341.8	351.9	242.7	250.3	354.6	80.4	2681.0
21	785	26.3	46.5	12.6	243.1	392.4	462.9	312.5	151.3	329.9	417.9	316.6	185.6	2898.0
21	786	47.3	59.1	29.4	63.0	164.0	262.5	391.7	343.4	351.5	298.6	316.5	131.4	2457.0
21	787	10.1	13.7	29.6	77.4	334.4	437.2	433.3	244.9	341.9	375.0	458.2	258.6	3014.0
21	788	17.3	30.0	50.2	229.8	245.4	258.9	369.5	361.6	298.0	382.1	345.6	53.7	2643.0
21	789	86.1	65.8	21.2	365.9	467.9	416.5	227.5	300.1	276.3	394.8	274.4	183.8	3080.0

21	790	57.8	42.6	7.5	104.2	444.1	270.0	345.8	270.6	295.6	484.9	258.8	86.1	2669.0
21	791	44.7	27.9	85.6	34.2	400.7	196.9	381.7	233.2	353.9	253.2	291.0	344.9	2649.0
21	792	183.4	74.8	33.8	206.8	564.4	269.1	353.5	337.3	316.7	291.6	309.1	48.2	2989.0
21	793	41.0	7.4	60.0	26.5	222.3	183.9	239.5	204.0	355.0	410.0	510.1	210.6	2470.0
21	794	45.3	184.3	38.4	147.3	332.7	447.5	316.8	250.1	354.0	341.5	286.5	159.8	2905.0
21	795	99.8	121.9	11.9	125.0	267.0	371.7	571.1	339.2	272.8	366.7	251.6	224.2	3024.0
21	796	86.0	83.3	70.7	321.4	339.5	319.8	359.1	293.3	326.9	358.1	311.1	122.6	2991.0
21	797	27.6	4.1	43.0	47.7	297.1	404.3	287.4	431.8	382.4	289.8	453.7	306.3	2975.0
21	798	64.7	5.6	21.5	267.4	294.6	592.2	339.9	247.7	349.8	334.8	294.1	144.8	2959.0
21	799	30.4	22.7	41.3	28.4	174.1	305.0	364.9	330.6	250.7	323.8	259.4	160.0	2291.0
21	800	144.7	68.1	46.3	163.5	430.2	483.9	370.1	532.2	348.8	224.3	502.0	287.8	3602.0

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MAXIMUM VOLUMES FOR PERIOD 8 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	303.0	185.5	150.3	518.0	626.9	592.2	586.4	532.2	493.4	616.6	710.0	1064.6	1064.6	3134.3	15131.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	3.2	4.1	1.4	10.5	106.2	154.6	85.3	141.5	197.2	173.9	165.5	29.8	1.4	345.7	10703.
STA 21 MONTH 1 MEAN	70.70	VARIANCE	3889.17	STAN. DEV.	62.36										
STA 21 MONTH 2 MEAN	44.52	VARIANCE	1569.58	STAN. DEV.	39.62										
STA 21 MONTH 3 MEAN	40.43	VARIANCE	1153.83	STAN. DEV.	33.97										
STA 21 MONTH 4 MEAN	129.90	VARIANCE	10254.34	STAN. DEV.	101.26										
STA 21 MONTH 5 MEAN	313.02	VARIANCE	10904.14	STAN. DEV.	104.42										
STA 21 MONTH 6 MEAN	318.93	VARIANCE	8454.80	STAN. DEV.	91.95										
STA 21 MONTH 7 MEAN	315.00	VARIANCE	12774.26	STAN. DEV.	113.02										
STA 21 MONTH 8 MEAN	312.02	VARIANCE	6870.16	STAN. DEV.	82.89										
STA 21 MONTH 9 MEAN	314.23	VARIANCE	5026.12	STAN. DEV.	70.90										
STA 21 MONTH 10 MEAN	361.87	VARIANCE	10040.95	STAN. DEV.	100.20										
STA 21 MONTH 11 MEAN	351.92	VARIANCE	12948.62	STAN. DEV.	113.79										
STA 21 MONTH 12 MEAN	228.33	VARIANCE	30959.09	STAN. DEV.	175.95										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 9

STA 21 MONTH 1	MEAN	0.007	STD DEVO	0.063
STA 21 MONTH 2	MEAN	-0.005	STD DEVO	0.066
STA 21 MONTH 3	MEAN	-0.008	STD DEVO	0.065
STA 21 MONTH 4	MEAN	-0.006	STD DEVO	0.058
STA 21 MONTH 5	MEAN	-0.001	STD DEVO	0.066
STA 21 MONTH 6	MEAN	0.005	STD DEVO	0.069
STA 21 MONTH 7	MEAN	-0.003	STD DEVO	0.061
STA 21 MONTH 8	MEAN	0.009	STD DEVO	0.071
STA 21 MONTH 9	MEAN	0.004	STD DEVO	0.067
STA 21 MONTH 10	MEAN	0.010	STD DEVO	0.055
STA 21 MONTH 11	MEAN	-0.004	STD DEVO	0.064
STA 21 MONTH 12	MEAN	-0.013	STD DEVO	0.066

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	801	92.5	51.4	40.4	246.2	359.2	396.6	317.3	264.7	395.7	283.8	265.7	50.6	2764.0
21	802	48.0	43.2	30.2	63.2	471.6	259.3	273.8	369.9	253.0	360.2	246.6	51.3	2470.0
21	803	12.2	31.4	15.4	31.3	289.4	537.7	299.3	271.4	333.5	316.9	306.1	122.3	2564.0
21	804	31.8	6.4	59.9	87.6	377.0	359.8	140.9	423.7	428.3	233.7	236.9	85.5	2472.0
21	805	18.6	149.3	20.2	125.7	323.4	439.2	246.2	335.5	266.5	309.1	305.1	162.5	2701.0
21	806	11.5	74.2	26.2	23.0	193.8	383.6	310.9	383.6	301.2	273.3	481.0	336.9	2800.0

21	807	57.4	199.7	10.7	185.3	447.4	438.8	470.1	301.1	224.4	357.9	462.2	148.6	3303.0
21	808	33.1	113.9	48.4	102.2	379.2	201.6	392.1	320.0	263.9	537.4	446.6	128.6	2967.0
21	809	146.2	81.2	96.5	115.0	243.3	192.9	93.2	319.6	290.8	335.8	257.3	42.8	2215.0
21	810	1.4	5.4	4.1	96.2	553.8	319.9	469.8	495.1	310.1	281.0	290.8	354.0	3181.0
21	811	57.4	95.1	38.3	37.1	244.0	258.5	176.1	171.7	251.0	357.7	303.4	99.2	2088.0
21	812	21.3	9.0	59.7	118.8	231.7	294.2	275.4	336.1	184.5	392.8	685.7	1063.6	3674.0
21	813	25.9	22.3	120.8	112.2	309.9	327.7	313.2	388.8	330.0	361.3	388.9	192.1	2893.0
21	814	31.6	51.7	13.3	115.1	305.8	335.6	533.3	473.3	287.0	310.5	285.2	223.4	2965.0
21	815	47.8	17.4	17.3	82.2	416.0	311.2	133.6	232.7	292.8	532.1	626.5	481.4	3191.0
21	816	124.0	78.1	18.0	56.1	126.8	279.9	202.0	335.4	427.4	607.4	215.8	143.6	2614.0
21	817	66.8	54.0	8.4	79.0	288.3	291.2	192.5	223.8	438.0	200.6	230.7	27.9	2101.0
21	818	31.1	18.2	22.8	245.8	435.4	316.4	341.0	372.1	358.3	280.1	269.7	226.0	2916.0
21	819	27.9	79.2	15.2	98.0	570.5	361.6	434.1	352.8	293.5	292.5	331.7	385.4	3241.0
21	820	84.6	34.0	50.4	47.6	377.8	443.5	405.1	356.4	332.0	246.8	493.9	389.4	3261.0
21	821	69.0	11.6	47.2	143.1	436.8	207.0	226.7	329.1	339.4	359.4	247.9	121.8	2539.0
21	822	205.8	24.4	12.8	186.3	318.6	213.9	180.0	227.9	266.3	366.0	299.3	139.0	2440.0
21	823	27.9	46.8	27.6	406.8	465.3	426.5	492.8	359.9	206.8	422.8	281.1	81.9	3248.0
21	824	72.2	54.5	23.2	80.5	424.9	286.3	346.7	446.6	345.8	377.2	494.3	416.7	3368.0
21	825	45.6	9.3	19.0	98.0	154.7	254.3	441.9	436.7	343.1	303.2	284.5	166.7	2557.0
21	826	38.3	35.0	25.7	133.8	282.7	384.6	238.5	197.0	353.5	317.0	506.5	116.3	2628.0
21	827	152.5	16.8	1.7	47.6	294.8	284.8	438.4	348.1	345.2	457.5	399.9	291.2	3079.0
21	828	131.2	34.7	22.6	276.9	315.6	407.7	173.8	283.8	257.0	213.7	320.5	131.5	2570.0
21	829	52.2	14.7	16.3	31.7	304.3	348.6	289.8	293.7	347.7	472.0	429.4	316.5	2918.0
21	830	80.7	35.1	16.4	32.1	253.5	219.5	359.1	346.7	428.3	528.8	269.0	355.1	2924.0
21	831	70.7	27.4	15.5	237.6	403.6	305.1	156.5	235.9	269.5	553.8	524.6	271.9	3073.0
21	832	321.1	60.7	120.1	252.1	397.5	302.0	266.0	322.0	349.9	451.9	220.1	50.1	3114.0
21	833	20.1	61.2	23.9	102.1	376.3	429.8	441.0	161.9	325.0	311.0	210.6	168.8	2632.0
21	834	35.6	34.5	36.0	234.6	401.1	326.8	380.2	291.7	380.8	601.6	288.0	176.4	3188.0
21	835	26.0	28.1	64.6	132.1	348.4	382.8	390.5	338.6	385.2	326.1	716.1	505.3	3644.0
21	836	24.3	75.6	55.6	145.2	248.3	208.0	239.4	317.5	323.7	326.4	366.2	294.0	2624.0
21	837	462.1	52.7	40.7	187.0	253.5	406.9	436.5	280.4	225.9	378.3	414.8	325.5	3465.0
21	838	112.7	49.0	15.8	105.2	98.3	370.7	260.5	393.9	254.1	343.3	255.0	458.2	2717.0
21	839	8.3	10.7	12.7	55.9	416.5	411.4	421.7	349.9	231.9	333.6	179.6	302.1	2736.0
21	840	138.2	23.3	24.3	165.1	230.6	337.4	372.0	353.2	330.3	446.6	239.1	208.8	2868.0
21	841	77.1	18.4	10.9	70.9	531.1	395.5	264.2	487.9	324.7	370.8	386.2	296.1	3233.0
21	842	39.8	68.4	104.4	300.4	365.6	434.1	589.9	296.8	388.2	509.8	491.6	39.2	3628.0
21	843	28.9	3.4	42.5	160.3	251.1	453.3	306.3	520.1	389.7	355.3	398.4	176.4	3084.0
21	844	325.6	41.3	35.7	263.4	407.4	340.3	264.3	242.7	311.5	212.0	337.8	166.2	2947.0
21	845	98.8	24.9	41.4	198.3	238.3	404.1	274.9	237.3	455.9	398.2	346.8	430.5	3148.0
21	846	58.0	7.9	4.0	101.5	394.5	328.1	310.2	231.5	272.7	261.2	238.5	192.9	2401.0
21	847	41.6	24.1	88.1	105.5	384.2	364.4	312.6	343.0	204.2	400.7	471.2	266.6	3007.0
21	848	70.9	89.1	37.1	47.9	258.6	260.0	258.7	196.5	335.2	395.3	356.7	137.4	2444.0
21	849	44.1	36.2	48.1	28.6	297.9	283.2	479.9	447.1	356.3	368.4	276.3	285.3	2950.0
21	850	179.9	19.3	38.3	265.5	218.6	147.4	109.8	273.9	265.4	376.0	242.4	292.5	2428.0
21	851	96.9	93.3	33.1	362.9	347.5	393.8	510.3	421.7	352.9	206.8	404.9	352.5	3576.0
21	852	35.4	87.9	40.6	288.2	370.1	243.2	496.6	263.5	296.8	499.8	233.9	141.6	2999.0
21	853	32.7	21.5	41.8	45.8	422.7	289.4	253.8	285.6	228.8	476.1	297.5	115.3	2511.0
21	854	58.5	55.2	72.1	40.5	373.8	281.6	382.0	261.6	273.2	424.4	268.4	220.8	2712.0
21	855	103.6	20.7	24.6	30.3	198.8	306.3	252.3	329.8	209.1	293.7	357.3	165.8	2293.0
21	856	74.2	4.0	133.0	193.8	425.2	332.4	335.9	239.7	299.0	278.4	332.9	443.1	3091.0
21	857	26.2	24.2	74.7	302.7	373.9	210.9	390.7	195.2	426.3	263.5	473.6	101.1	2864.0
21	858	12.4	47.4	22.8	65.9	362.0	292.4	468.5	305.8	339.4	284.3	437.4	247.7	2884.0
21	859	54.1	63.9	196.0	322.3	285.2	242.1	409.6	397.7	353.3	369.3	238.3	40.6	2972.0
21	860	23.2	46.9	21.5	53.5	303.1	164.0	153.7	338.6	347.2	293.7	174.4	129.7	2050.0

21	861	41.0	26.1	49.7	72.4	315.8	196.7	265.4	288.0	285.9	305.5	384.6	120.3	2351.0
21	862	9.6	7.3	6.8	15.8	170.6	388.7	377.3	391.2	301.0	474.0	342.4	354.9	2840.0
21	863	35.8	44.3	18.6	131.3	364.6	216.0	334.6	413.0	271.9	187.2	318.8	48.2	2385.0
21	864	56.4	56.1	98.8	105.0	252.8	250.9	301.5	200.7	343.1	429.9	401.5	89.9	2587.0
21	865	159.8	83.4	26.4	21.0	238.5	353.9	181.4	230.2	198.9	220.3	249.9	198.0	2160.0
21	866	30.3	68.0	36.0	499.5	311.6	323.8	151.4	216.6	322.3	297.3	269.5	140.1	2665.0
21	867	47.5	175.5	140.5	47.8	292.2	260.4	255.4	445.0	455.6	402.5	441.5	406.7	3370.0
21	868	63.1	36.7	44.7	116.8	336.2	377.4	121.7	343.0	347.7	393.2	296.7	67.6	2546.0
21	869	37.6	49.3	20.6	680.1	311.0	186.7	313.5	181.4	362.9	389.0	394.9	499.5	3427.0
21	870	101.5	48.7	29.4	133.8	213.0	348.5	287.6	329.2	273.8	419.0	602.4	171.4	2957.0
21	871	31.3	21.9	13.3	87.5	224.7	448.1	392.6	207.7	329.9	481.3	227.6	31.1	2498.0
21	872	8.3	26.0	32.6	131.1	271.6	350.5	444.5	409.9	335.3	361.9	826.3	439.5	3639.0
21	873	33.0	12.9	7.3	32.1	326.9	320.1	444.9	302.3	381.2	383.2	468.1	61.8	2773.0
21	874	67.2	65.3	48.8	245.0	374.5	403.6	275.4	355.0	316.1	531.2	320.0	327.3	3329.0
21	875	297.6	105.7	108.8	31.0	223.7	346.4	219.6	326.8	392.5	405.2	416.6	120.0	2996.0
21	876	28.3	6.2	30.1	68.9	216.3	449.9	248.6	243.5	313.4	338.7	379.7	229.1	2552.0
21	877	31.1	4.0	16.3	287.6	361.8	541.7	359.7	356.0	266.5	261.2	231.0	326.3	3043.0
21	878	42.3	23.1	33.9	85.8	413.6	313.8	511.7	240.5	356.3	469.6	255.0	146.9	2893.0
21	879	44.4	26.3	28.4	20.9	146.9	166.4	247.6	214.4	321.7	245.6	501.0	298.3	2261.0
21	880	62.6	38.3	111.7	265.3	405.2	301.7	359.1	290.8	205.5	204.7	735.8	484.9	3466.0
21	881	222.1	52.1	83.0	86.6	366.2	365.5	139.0	295.8	323.2	584.7	272.0	155.0	2945.0
21	882	138.6	13.8	83.1	65.1	381.0	417.3	313.0	344.9	271.8	279.9	387.1	198.5	2894.0
21	883	31.6	17.3	36.0	176.7	408.5	450.7	285.1	422.4	328.8	353.9	311.7	181.0	3005.0
21	884	47.5	50.7	38.3	101.6	405.5	374.8	421.1	273.0	288.3	410.7	418.6	336.4	3168.0
21	885	91.3	8.4	8.0	38.4	416.5	344.4	306.8	333.8	290.0	302.4	296.7	459.1	2894.0
21	886	114.0	48.8	19.4	288.8	438.1	421.2	341.9	242.8	280.7	363.2	324.7	212.1	3096.0
21	887	81.7	24.1	8.4	67.4	254.0	202.4	183.1	410.0	225.4	261.8	299.1	223.2	2239.0
21	888	27.3	35.4	12.5	76.5	209.7	344.3	330.4	262.0	280.6	241.1	441.3	564.7	2826.0
21	889	38.5	26.4	24.7	28.4	228.0	289.0	448.7	304.9	382.1	394.4	317.2	152.8	2635.0
21	890	12.8	1.4	22.2	17.3	187.0	393.8	530.8	514.8	350.5	230.4	631.1	162.1	3053.0
21	891	50.0	36.7	17.5	234.3	208.4	247.8	222.2	292.8	234.5	443.0	241.8	197.7	2427.0
21	892	161.1	60.1	22.6	45.4	339.0	292.3	238.8	294.3	342.8	416.6	313.4	209.5	2735.0
21	893	12.5	110.2	109.4	98.1	182.9	239.5	416.4	371.2	301.5	378.6	335.4	224.2	2778.0
21	894	7.9	20.4	26.7	70.3	340.0	214.1	239.1	370.9	437.8	309.1	401.2	131.2	2568.0
21	895	52.0	58.4	21.9	106.9	284.7	154.2	347.9	349.5	245.1	431.9	301.0	75.7	2429.0
21	896	19.1	41.3	6.0	187.6	152.3	238.2	319.2	227.6	408.5	392.0	381.9	70.6	2445.0
21	897	17.0	8.5	65.3	24.6	228.0	236.5	264.6	291.9	358.8	468.2	295.7	180.2	2441.0
21	898	42.9	34.0	96.8	44.9	251.4	402.1	352.3	288.3	392.2	301.8	548.3	385.2	3139.0
21	899	266.2	158.3	38.7	36.6	247.3	422.1	423.9	322.6	400.6	367.3	202.3	113.0	2999.0
21	900	133.9	15.2	20.0	76.9	264.0	377.3	232.1	166.9	247.9	482.1	380.7	223.1	2620.0

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MAXIMUM VOLUMES FOR PERIOD 9 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	462.1	199.7	196.0	680.1	570.5	541.7	589.9	520.1	455.9	607.4	826.3	1063.6	1063.6	2938.1	15091.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	1.4	1.4	1.7	15.8	98.3	147.4	93.2	161.9	184.5	187.2	174.4	27.9	1.4	330.3	10220.
STA 21 MONTH 1 MEAN	72.10	VARIANCE	5900.76	STAN. DEV.	76.82										
STA 21 MONTH 2 MEAN	44.51	VARIANCE	1380.21	STAN. DEV.	37.15										
STA 21 MONTH 3 MEAN	40.92	VARIANCE	1270.47	STAN. DEV.	35.64										
STA 21 MONTH 4 MEAN	132.44	VARIANCE	12701.24	STAN. DEV.	112.70										
STA 21 MONTH 5 MEAN	314.79	VARIANCE	9904.42	STAN. DEV.	99.52										

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STA 21 MONTH 6 MEAN	320.25	VARIANCE	8290.40	STAN. DEV.	91.05
STA 21 MONTH 7 MEAN	316.14	VARIANCE	12854.37	STAN. DEV.	113.38
STA 21 MONTH 8 MEAN	315.57	VARIANCE	7238.28	STAN. DEV.	85.08
STA 21 MONTH 9 MEAN	315.25	VARIANCE	4898.01	STAN. DEV.	69.99
STA 21 MONTH 10 MEAN	359.30	VARIANCE	10310.80	STAN. DEV.	101.54
STA 21 MONTH 11 MEAN	356.24	VARIANCE	17284.97	STAN. DEV.	131.47
STA 21 MONTH 12 MEAN	226.49	VARIANCE	24416.77	STAN. DEV.	156.26

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 10

STA 21 MONTH 1 MEAN	0.001	STD DEVO	0.068
STA 21 MONTH 2 MEAN	0.003	STD DEVO	0.064
STA 21 MONTH 3 MEAN	0.004	STD DEVO	0.061
STA 21 MONTH 4 MEAN	-0.001	STD DEVO	0.068
STA 21 MONTH 5 MEAN	0.000	STD DEVO	0.066
STA 21 MONTH 6 MEAN	-0.003	STD DEVO	0.060
STA 21 MONTH 7 MEAN	0.010	STD DEVO	0.070
STA 21 MONTH 8 MEAN	0.000	STD DEVO	0.063
STA 21 MONTH 9 MEAN	0.007	STD DEVO	0.054
STA 21 MONTH 10 MEAN	-0.001	STD DEVO	0.061
STA 21 MONTH 11 MEAN	-0.004	STD DEVO	0.059
STA 21 MONTH 12 MEAN	-0.004	STD DEVO	0.061

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
21	901	129.6	69.4	23.4	68.1	335.6	291.5	540.2	288.5	324.7	384.6	441.3	72.8	2969.0
21	902	27.7	21.4	12.0	140.0	471.5	191.4	123.9	288.2	291.0	542.3	309.8	135.6	2554.0
21	903	79.2	21.4	4.3	77.7	294.5	239.7	394.3	294.8	371.5	509.7	396.5	281.9	2965.0
21	904	30.5	15.3	42.6	92.5	306.3	306.7	224.1	282.3	254.3	470.9	285.6	97.1	2408.0
21	905	97.5	33.8	14.2	68.7	405.7	323.8	281.2	395.4	311.5	406.8	395.0	30.7	2765.0
21	906	32.6	106.8	69.4	77.3	389.7	343.0	237.6	202.0	262.2	458.4	285.6	483.8	2949.0
21	907	49.1	19.0	33.5	199.1	434.0	362.2	138.5	149.5	224.9	310.1	445.3	573.0	2938.0
21	908	128.2	41.8	4.7	63.4	299.0	263.8	314.9	251.8	360.1	235.7	723.4	449.6	3137.0
21	909	61.0	28.1	120.5	517.9	298.1	516.0	527.8	439.1	451.4	223.2	300.2	129.2	3612.0
21	910	12.5	10.9	4.7	37.2	227.8	301.9	284.0	335.6	362.4	465.3	612.1	213.1	2868.0
21	911	49.8	162.4	87.5	77.1	226.0	238.4	327.7	294.6	195.7	440.8	402.6	435.6	2939.0
21	912	211.5	41.2	25.7	49.3	236.0	301.1	193.0	415.2	284.9	373.2	379.0	290.1	2800.0
21	913	34.6	48.8	99.9	150.7	260.9	358.8	306.5	477.8	350.2	388.8	355.5	147.7	2982.0
21	914	31.1	44.2	7.0	55.0	255.1	179.4	370.1	320.9	345.4	379.0	237.9	264.1	2488.0
21	915	88.2	133.5	47.9	34.0	314.3	305.8	347.4	357.0	233.3	392.0	378.0	192.9	2824.0
21	916	114.1	20.9	33.5	131.5	194.2	468.0	495.7	362.7	313.4	357.6	651.7	414.5	3560.0
21	917	11.8	25.7	36.0	184.9	501.6	395.5	238.7	236.6	311.2	491.7	357.3	211.7	3005.0
21	918	45.7	113.2	47.7	158.5	235.9	423.6	313.3	271.6	340.2	318.7	428.0	154.9	2852.0
21	919	31.1	27.2	88.1	515.8	471.5	457.3	378.7	280.9	325.0	349.0	275.1	138.9	3338.0
21	920	45.1	72.4	46.8	69.9	154.7	373.4	455.4	200.6	334.8	229.1	552.5	77.5	2613.0
21	921	65.2	46.5	29.7	125.6	253.4	235.7	141.8	213.9	333.1	402.2	280.7	134.6	2264.0
21	922	26.6	45.8	27.0	119.5	309.4	318.4	217.9	281.7	231.8	450.4	266.8	187.6	2484.0
21	923	18.4	38.7	45.1	27.3	293.4	264.7	365.4	189.1	266.7	510.0	300.1	91.3	2409.0
21	924	55.1	36.3	50.5	167.6	316.7	367.5	331.1	275.4	444.1	420.8	285.5	260.9	3012.0
21	925	58.2	106.4	34.9	44.0	230.0	405.7	437.1	362.5	395.4	364.2	439.7	180.5	3058.0
21	926	259.0	132.5	61.2	86.5	321.4	242.4	181.0	238.5	369.9	390.4	292.3	238.5	2813.0
21	927	118.8	78.5	42.9	180.1	256.9	229.5	159.7	297.2	293.4	380.7	283.7	141.0	2464.0
21	928	156.9	15.4	2.5	7.9	217.6	256.6	348.2	408.1	303.0	158.4	336.6	96.4	2308.0
21	929	31.2	24.5	35.7	142.4	265.6	469.3	375.7	372.9	313.0	358.5	308.3	137.9	2835.0
21	930	104.2	91.8	46.4	117.0	354.8	228.2	152.0	242.5	387.5	270.9	342.1	76.0	2414.0
21	931	12.9	19.4	97.7	225.1	200.4	231.1	349.8	353.3	284.0	326.1	420.7	487.0	3007.0

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21	932	110.0	17.2	26.9	45.2	219.0	337.9	311.7	194.6	225.2	403.5	374.7	260.2	2527.0
21	933	76.9	21.8	29.3	105.0	283.8	227.8	258.2	331.7	333.6	518.5	232.4	55.8	2476.0
21	934	114.3	20.0	11.5	28.2	236.3	300.7	440.4	415.0	406.3	333.5	366.9	52.8	2724.0
21	935	47.4	115.8	69.5	43.4	342.9	347.5	341.1	492.0	275.6	307.0	316.4	164.7	2864.0
21	936	36.2	42.3	62.3	35.2	266.7	276.5	420.8	275.6	337.2	306.2	242.9	107.3	2408.0
21	937	18.8	56.3	27.2	393.1	423.3	337.2	340.9	247.0	270.0	214.5	558.5	243.6	3130.0
21	938	118.3	43.5	34.2	239.4	349.1	217.3	246.5	248.3	198.5	428.5	619.4	154.7	2895.0
21	939	22.9	52.6	172.0	194.4	457.6	192.9	93.1	221.4	323.5	370.4	258.2	66.1	2424.0
21	940	55.7	4.2	17.3	74.6	262.8	280.8	195.3	189.4	376.0	433.5	262.3	304.0	2456.0
21	941	12.9	44.2	14.7	155.1	330.3	464.7	350.2	388.6	319.5	232.2	351.6	708.4	3372.0
21	942	330.0	34.3	15.5	77.5	320.9	415.1	332.7	347.7	245.7	401.7	564.1	95.6	3182.0
21	943	6.7	19.0	4.6	136.3	444.8	226.2	401.0	438.4	362.5	304.8	315.7	276.8	2938.0
21	944	27.1	77.3	61.5	33.1	231.5	394.5	383.1	358.0	256.0	341.0	231.2	49.6	2444.0
21	945	19.6	8.0	20.4	43.5	230.7	486.7	516.1	374.5	424.4	414.6	351.6	381.0	3273.0
21	946	38.8	11.3	41.1	48.1	185.4	328.1	363.0	259.5	302.9	173.9	261.8	117.7	2131.0
21	947	102.1	98.7	103.8	50.9	170.6	305.7	216.8	292.1	426.6	371.4	241.1	206.0	2587.0
21	948	12.3	21.9	30.6	27.7	499.9	427.8	269.7	242.1	399.7	373.8	277.7	70.0	2655.0
21	949	19.2	85.8	29.2	141.3	210.9	319.6	410.7	354.1	265.9	153.5	420.6	402.0	2814.0
21	950	17.5	30.9	34.8	115.4	244.8	340.1	352.3	424.5	393.0	510.2	967.7	433.4	3865.0
21	951	78.6	154.4	122.9	48.7	245.9	315.3	370.8	410.6	321.4	391.6	683.0	578.9	3723.0
21	952	54.4	128.0	31.4	41.6	314.3	342.6	349.2	235.0	247.4	370.3	249.2	105.7	2468.0
21	953	73.3	13.2	68.1	145.6	464.0	298.1	92.5	264.1	349.2	359.2	349.3	171.1	2646.0
21	954	94.7	33.0	18.5	18.5	202.9	410.4	337.4	362.0	269.8	343.2	302.8	55.2	2449.0
21	955	21.5	35.4	23.4	114.7	426.3	405.9	192.6	311.6	321.2	460.1	371.6	79.5	2763.0
21	956	47.0	58.7	76.3	42.4	217.6	392.3	365.1	306.0	333.4	381.8	223.2	250.6	2694.0
21	957	103.8	23.0	110.2	224.1	431.1	239.8	291.6	262.8	344.0	315.9	362.4	202.3	2911.0
21	958	67.1	7.3	26.3	231.2	276.8	369.6	244.8	273.7	399.3	307.5	274.1	163.9	2642.0
21	959	43.2	98.4	11.8	210.3	200.4	422.9	195.8	326.7	236.0	312.0	492.9	482.2	3032.0
21	960	120.4	37.7	64.4	420.5	297.5	377.0	334.2	320.8	268.6	336.1	221.8	146.4	2945.0
21	961	11.3	72.6	8.7	47.2	154.3	301.4	173.6	321.7	342.4	495.4	330.0	156.8	2415.0
21	962	330.2	41.2	45.6	102.5	432.8	304.5	211.7	331.2	297.6	320.1	336.6	298.6	3053.0
21	963	208.0	11.7	33.2	57.6	333.2	564.3	300.3	259.3	325.6	287.0	409.8	276.6	3067.0
21	964	137.3	79.1	111.4	95.9	297.7	367.8	270.6	316.6	312.6	347.0	296.2	113.8	2747.0
21	965	6.6	53.2	15.1	90.9	382.5	289.4	458.9	429.0	261.7	442.8	405.9	210.5	3047.0
21	966	8.6	25.8	81.3	66.4	579.8	294.5	199.4	322.6	293.4	326.8	320.8	124.0	2643.0
21	967	35.2	48.8	8.7	24.9	246.9	375.7	320.9	238.4	299.3	291.3	346.8	398.6	2636.0
21	968	108.8	52.3	52.8	203.6	503.1	341.2	564.0	420.8	218.7	458.8	383.8	323.9	3633.0
21	969	71.4	38.7	64.2	134.3	416.5	300.9	234.0	401.2	256.5	273.7	201.6	196.6	2591.0
21	970	60.1	28.5	16.9	333.3	290.2	300.8	405.9	265.2	330.1	263.8	205.9	71.1	2571.0
21	971	44.3	13.4	7.9	99.2	580.9	257.9	238.5	327.1	286.9	322.4	264.4	146.4	2587.0
21	972	8.8	62.8	26.0	178.0	384.3	173.2	493.8	508.6	219.6	232.9	246.1	101.0	2636.0
21	973	242.8	17.0	30.4	110.6	460.3	238.4	346.6	269.2	291.0	322.2	300.4	69.9	2698.0
21	974	111.0	23.9	6.3	37.6	356.7	298.2	412.5	330.6	261.1	452.9	398.7	227.3	2918.0
21	975	335.1	7.6	40.5	248.8	495.7	417.8	267.5	196.3	331.4	457.9	261.6	143.5	3205.0
21	976	173.8	45.5	28.3	176.1	204.7	416.1	320.8	259.7	445.4	471.4	248.2	446.9	3237.0
21	977	115.7	93.1	35.3	54.9	168.3	162.6	364.8	306.8	307.0	273.0	193.9	15.9	2092.0
21	978	7.8	2.9	20.0	484.3	378.6	449.3	548.4	379.2	267.1	302.9	480.6	244.2	3565.0
21	979	143.9	35.8	10.5	63.7	237.7	221.4	125.3	195.0	325.2	327.0	243.9	107.1	2037.0
21	980	12.4	62.1	34.6	47.8	267.0	291.8	352.5	162.7	364.2	585.5	994.7	129.3	3306.0
21	981	31.0	121.3	36.3	104.0	327.2	313.7	423.4	371.0	320.1	402.5	306.0	144.0	2900.0
21	982	73.6	10.9	26.7	96.1	333.4	506.3	512.3	337.1	291.0	301.6	361.6	207.9	3059.0
21	983	23.9	15.7	20.3	228.6	336.8	176.0	215.0	271.3	435.7	575.1	478.1	405.5	3182.0
21	984	112.1	15.2	13.9	11.0	218.6	236.7	362.4	473.0	464.5	240.2	316.2	274.7	2739.0
21	985	77.4	6.2	17.5	86.2	280.8	227.4	194.5	438.7	191.6	219.8	178.9	141.7	2061.0

21	986	24.7	21.5	60.2	225.1	342.0	339.2	396.5	399.5	259.4	278.8	370.7	140.4	2858.0
21	987	118.6	12.7	23.2	527.3	435.4	405.9	353.5	305.6	275.5	344.4	487.6	322.0	3613.0
21	988	47.0	50.0	14.1	192.1	490.1	360.2	357.4	356.0	237.5	454.3	436.0	262.8	3256.0
21	989	15.5	48.2	39.7	247.1	220.1	277.2	355.4	366.1	317.0	263.2	279.9	622.7	3052.0
21	990	32.5	10.8	42.7	99.8	202.7	235.8	207.1	236.3	329.9	323.6	281.0	134.2	2138.0
21	991	66.6	25.7	99.4	252.1	480.5	442.1	352.3	190.9	380.5	312.8	231.7	271.2	3106.0
21	992	76.7	20.9	20.4	243.5	310.1	351.9	502.2	412.4	329.9	478.1	457.2	192.7	3396.0
21	993	12.6	17.9	24.4	16.9	202.9	441.0	479.6	402.3	278.5	298.5	310.3	173.4	2658.0
21	994	49.0	24.0	33.9	77.4	381.7	243.3	147.1	324.1	283.5	474.1	233.2	453.5	2725.0
21	995	21.7	0.7	8.9	95.8	277.2	429.6	350.8	371.0	381.6	423.9	382.1	432.2	3177.0
21	996	47.1	20.6	66.9	92.3	414.9	190.3	280.4	241.8	220.0	321.8	269.5	212.4	2377.0
21	997	19.8	14.7	8.1	112.8	354.2	290.5	283.3	357.2	389.8	447.8	394.7	297.4	2970.0
21	998	48.1	14.3	8.1	70.6	200.4	381.3	363.4	473.7	416.1	304.6	496.1	289.0	3065.0
21	999	38.0	13.5	55.3	182.7	320.9	195.9	216.6	242.6	453.4	523.8	343.0	836.3	3423.0
21	1000	82.9	115.8	76.2	179.5	316.9	283.2	332.2	372.8	377.1	235.3	210.4	105.6	2688.0

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MAXIMUM VOLUMES FOR PERIOD 10 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	335.1	162.4	172.0	527.3	580.9	564.3	564.0	508.6	464.5	585.5	994.7	836.3	994.7	3081.2	15075.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
21	6.6	0.7	2.5	7.9	154.3	162.6	92.5	149.5	191.6	153.5	178.9	15.9	0.7	371.8	10492.
STA 21 MONTH 1 MEAN	72.17	VARIANCE	4871.00	STAN. DEV.	69.79										
STA 21 MONTH 2 MEAN	43.69	VARIANCE	1333.58	STAN. DEV.	36.52										
STA 21 MONTH 3 MEAN	39.80	VARIANCE	1013.64	STAN. DEV.	31.84										
STA 21 MONTH 4 MEAN	131.16	VARIANCE	12671.58	STAN. DEV.	112.57										
STA 21 MONTH 5 MEAN	314.21	VARIANCE	10962.84	STAN. DEV.	104.70										
STA 21 MONTH 6 MEAN	321.03	VARIANCE	8600.00	STAN. DEV.	92.74										
STA 21 MONTH 7 MEAN	315.34	VARIANCE	12783.08	STAN. DEV.	113.06										
STA 21 MONTH 8 MEAN	313.60	VARIANCE	7399.26	STAN. DEV.	86.02										
STA 21 MONTH 9 MEAN	313.95	VARIANCE	4987.79	STAN. DEV.	70.62										
STA 21 MONTH 10 MEAN	361.74	VARIANCE	9735.81	STAN. DEV.	98.67										
STA 21 MONTH 11 MEAN	359.98	VARIANCE	21138.06	STAN. DEV.	145.39										
STA 21 MONTH 12 MEAN	228.27	VARIANCE	24792.45	STAN. DEV.	157.46										

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**INPUT AND OUTPUT FILES
GATUN DOWNSTREAM
HEC-4 SYNTHETIC RAINFALL**

A GATUN LAKE DOWNSTREAM
 A BASIN AVERAGE MONTHLY RAINFALL IN MM
 A ESTIMATED BY MWL

B	1911	1	1	90	1000	100							
H	221911	44	43	38	135	451	275	177	190	230	456	289	33
H	221912	23	50	20	62	253	255	257	288	320	457	393	213
H	221913	90	40	9	71	373	253	243	374	343	268	352	163
H	221914	29	21	23	67	301	360	122	287	414	385	418	165
H	221915	60	155	43	315	227	321	347	231	292	393	343	190
H	221916	61	72	56	147	326	243	299	278	272	478	371	130
H	221917	48	26	9	96	297	296	336	349	344	313	646	244
H	221918	111	15	26	154	356	221	165	250	297	439	211	59
H	221919	72	22	19	249	208	236	222	227	298	374	265	163
H	221920	32	20	23	38	193	242	360	274	255	495	247	54
H	221921	45	65	24	106	242	283	321	383	377	345	310	238
H	221922	189	40	10	33	347	268	137	252	286	362	257	220
H	221923	52	23	13	30	246	308	185	261	288	757	340	77
H	221924	13	68	32	174	309	340	383	274	341	313	481	171
H	221925	87	23	14	95	181	274	338	214	333	412	371	89
H	221926	18	33	10	11	209	407	367	358	360	381	533	284
H	221927	87	42	35	209	393	385	354	230	298	249	366	233
H	221928	78	36	97	84	270	330	240	436	307	390	421	195
H	221929	13	24	51	51	302	244	230	348	233	330	307	124
H	221930	64	28	12	143	272	182	232	239	268	226	249	134
H	221931	66	23	102	73	316	281	364	201	282	339	601	92
H	221932	87	34	27	168	287	340	239	251	185	438	679	209
H	221933	77	13	31	40	240	246	233	208	281	250	627	287
H	221934	56	12	31	116	333	237	198	262	376	412	404	317
H	221935	100	80	23	88	318	306	537	302	328	302	874	343
H	221936	29	14	28	96	379	187	268	290	337	417	312	87
H	221937	93	18	20	101	332	233	248	286	390	359	401	628
H	221938	41	20	22	87	423	456	277	389	302	376	391	402
H	221939	22	5	25	39	158	256	144	229	343	322	581	264
H	221940	68	40	28	33	233	207	186	284	266	347	279	57
H	221941	92	85	32	57	228	272	282	354	325	430	327	131
H	221942	59	30	78	129	309	280	234	273	357	507	216	447
H	221943	80	52	59	141	389	359	254	290	339	275	391	404
H	221944	68	34	22	182	376	231	222	413	229	437	323	349
H	221945	49	10	17	79	308	209	274	331	270	288	456	396
H	221946	52	15	29	37	239	190	308	223	341	272	307	264
H	221947	12	42	29	71	164	307	234	288	380	415	246	172
H	221948	49	5	13	33	295	186	327	296	252	278	439	79
H	221949	18	9	13	55	291	383	254	326	300	379	544	235
H	221950	19	43	21	95	261	385	373	280	265	283	581	418
H	221951	52	114	15	169	292	176	234	242	287	355	333	237
H	221952	66	22	5	112	301	270	221	203	246	424	233	349
H	221953	164	20	27	88	297	170	270	256	244	411	416	141
H	221954	34	31	21	125	351	350	404	355	354	300	431	174
H	221955	243	28	33	27	292	334	245	348	275	292	485	249
H	221956	186	47	86	94	397	195	381	236	278	439	328	108
H	221957	20	11	7	10	269	219	232	300	277	392	314	149
H	221958	111	84	75	80	279	244	273	256	264	348	202	134
H	221959	17	3	6	66	210	266	217	245	314	291	251	552

H 221960	112	19	112	252	327	303	302	243	249	400	374	465
H 221961	33	12	17	116	197	367	208	325	363	379	299	181
H 221962	65	24	18	75	328	231	267	285	300	274	328	301
H 221963	163	48	17	144	260	295	308	430	317	262	355	105
H 221964	21	12	19	131	314	341	318	299	290	374	410	122
H 221965	114	16	17	39	272	203	186	278	288	471	574	134
H 221966	66	26	28	116	302	265	308	348	331	297	575	372
H 221967	48	22	30	134	228	352	301	271	265	339	390	100
H 221968	5	86	55	30	293	308	197	340	259	394	314	56
H 221969	56	19	22	106	270	184	277	340	356	342	349	256
H 221970	227	58	65	181	327	218	306	313	257	321	500	418
H 221971	142	50	68	17	373	260	254	319	271	304	308	30
H 221972	168	41	30	220	215	282	139	198	320	338	211	113
H 221973	59	15	4	35	238	294	250	219	311	369	460	123
H 221974	10	26	24	38	197	316	301	220	272	500	394	97
H 221975	18	25	46	29	279	273	282	353	281	498	358	368
H 221976	32	16	5	120	220	222	88	201	360	337	196	69
H 221977	38	12	7	28	258	191	176	378	265	409	324	103
H 221978	45	30	62	265	253	273	308	316	248	310	281	67
H 221979	9	25	7	238	246	282	281	287	228	283	280	151
H 221980	126	55	6	40	301	264	259	287	182	290	306	179
H 221981	203	35	82	359	363	345	308	294	175	320	497	342
H 221982	144	18	14	112	234	204	194	201	254	390	153	30
H 221983	22	4	8	74	257	241	204	222	323	298	321	259
H 221984	75	69	15	50	252	269	188	385	310	410	384	47
H 221985	68	26	22	19	245	303	230	246	305	245	240	250
H 221986	36	11	37	164	171	252	160	212	266	447	204	61
H 221987	21	36	5	224	354	232	270	298	444	475	295	192
H 221988	8	32	8	39	269	263	260	313	356	385	311	164
H 221989	21	62	25	22	175	185	255	284	212	348	353	177
H 221990	50	6	42	72	344	178	265	259	395	463	288	209
H 221991	25	22	91	60	354	240	247	202	347	266	354	94
H 221992	25	11	9	167	364	311	245	298	342	280	274	132
H 221993	90	19	83	170	239	322	224	213	415	373	376	161
H 221994	52	9	54	41	273	307	167	269	250	333	404	46
H 221995	115	17	20	131	330	348	320	296	259	312	389	258
H 221996	339	89	93	75	325	301	223	262	295	317	416	127
H 221997	24	22	3	28	237	225	178	164	242	210	223	35
H 221998	12	19	28	187	270	304	281	276	247	282	271	351
H 221999	72	66	94	154	215	353	226	412	328	275	445	529
H 222000	123	21	9	97	271	371	208	292	222	436	214	391

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GATUN LAKE DOWNSTREAM
 BASIN AVERAGE MONTHLY RAINFALL IN MM
 ESTIMATED BY MWH

TYRA	IMNTH	IANAL	MXRCS	NYRG	NYMXG	NPASS	IPCHQ	IPCHS	NSTA	NCOMB	NTNDM	NCSTY	IGNRL	NPROJ	IYRPJ	MTHPJ	LYRPJ
1911		1	90	1000	100	0	0	0	0	0	0	0	0	0	0	0	0

MAXIMUM VOLUMES OF RECORDED FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	339.0	155.0	112.0	359.0	451.0	456.0	537.0	436.0	444.0	757.0	874.0	628.0	874.0	2686.0	14309.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	5.0	3.0	3.0	10.0	158.0	170.0	88.0	164.0	175.0	210.0	153.0	30.0	3.0	291.0	9376.

STA AVERAGE MONTHLY FLOW IS
 22 214.65

FREQUENCY STATISTICS

STA	ITEM	1	2	3	4	5	6	7	8	9	10	11	12
22	MEAN	1.712	1.419	1.374	1.914	2.448	2.434	2.400	2.449	2.472	2.553	2.549	2.224
	STD DEV	0.364	0.321	0.357	0.326	0.096	0.095	0.122	0.089	0.078	0.093	0.137	0.304
	SKEW	-0.252	-0.242	-0.121	-0.431	-0.315	-0.117	-0.608	0.001	-0.363	0.270	0.185	-0.435
	INCRMT	0.70	0.34	0.32	1.04	2.84	2.75	2.58	2.85	2.98	3.62	3.68	2.06
	YEARS	90	90	90	90	90	90	90	90	90	90	90	90

69-G

RAW CORRELATION COEFFICIENTS FOR MONTH 1

STA	22	WITH CURRENT MONTH
22	1.000	WITH PRECEDING MONTH AT ABOVE STATION
22	0.276	

RAW CORRELATION COEFFICIENTS FOR MONTH 2

STA	22	WITH CURRENT MONTH
22	1.000	WITH PRECEDING MONTH AT ABOVE STATION
22	0.238	

RAW CORRELATION COEFFICIENTS FOR MONTH 3

STA	22	WITH CURRENT MONTH
-----	----	--------------------

1

22 1.000 WITH PRECEDING MONTH AT ABOVE STATION
22 0.314

RAW CORRELATION COEFFICIENTS FOR MONTH 4

STA 22 WITH CURRENT MONTH
22 1.000 WITH PRECEDING MONTH AT ABOVE STATION
22 0.237

RAW CORRELATION COEFFICIENTS FOR MONTH 5

STA 22 WITH CURRENT MONTH
22 1.000 WITH PRECEDING MONTH AT ABOVE STATION
22 0.217

RAW CORRELATION COEFFICIENTS FOR MONTH 6

STA 22 WITH CURRENT MONTH
22 1.000 WITH PRECEDING MONTH AT ABOVE STATION
22 0.025

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RAW CORRELATION COEFFICIENTS FOR MONTH 7

STA 22 WITH CURRENT MONTH
22 1.000 WITH PRECEDING MONTH AT ABOVE STATION
22 0.198

RAW CORRELATION COEFFICIENTS FOR MONTH 8

STA 22 WITH CURRENT MONTH
22 1.000 WITH PRECEDING MONTH AT ABOVE STATION
22 0.227

RAW CORRELATION COEFFICIENTS FOR MONTH 9

STA 22 WITH CURRENT MONTH

22 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 22 0.091

RAW CORRELATION COEFFICIENTS FOR MONTH 10

STA 22
 WITH CURRENT MONTH
 22 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 22 0.049

RAW CORRELATION COEFFICIENTS FOR MONTH 11

STA 22
 WITH CURRENT MONTH
 22 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 22 -0.113

RAW CORRELATION COEFFICIENTS FOR MONTH 12

STA 22
 WITH CURRENT MONTH
 22 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 22 0.331

¹
 1. RECORDED AND RECONSTITUTED FLOWS

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	1911	44.00	43.00	38.00	135.00	451.00	275.00	177.00	190.00	230.00	456.00	289.00	33.00	2361
22	1912	23.00	50.00	20.00	62.00	253.00	255.00	257.00	288.00	320.00	457.00	393.00	213.00	2591
22	1913	90.00	40.00	9.00	71.00	373.00	253.00	243.00	374.01	343.00	268.00	352.00	163.00	2579
22	1914	29.00	21.00	23.00	67.00	301.00	360.00	122.00	287.00	414.00	385.00	418.00	165.00	2592
22	1915	60.00	155.00	43.00	315.00	227.00	321.00	347.00	231.00	292.00	393.00	343.00	190.00	2917
22	1916	61.00	72.00	56.00	147.00	326.00	243.00	299.00	278.00	272.00	478.00	371.00	130.00	2733
22	1917	48.00	26.00	9.00	96.00	297.00	296.00	336.00	349.00	344.00	313.00	646.00	244.00	3004
22	1918	111.00	15.00	26.00	154.00	356.00	221.00	165.00	250.00	297.00	439.00	211.00	59.00	2304
22	1919	72.00	22.00	19.00	249.00	208.00	236.00	222.00	227.00	298.00	374.00	265.00	163.00	2355
22	1920	32.00	20.00	23.00	38.00	193.00	242.00	360.00	274.00	255.00	495.00	247.00	54.00	2233
22	1921	45.00	65.00	24.00	106.00	242.00	283.00	321.00	382.99	377.00	345.00	310.00	238.00	2739
22	1922	189.00	40.00	10.00	33.00	347.00	268.00	137.00	252.00	286.00	362.00	257.00	220.00	2401
22	1923	52.00	23.00	13.00	30.00	246.00	308.00	185.00	261.00	288.00	757.00	340.00	77.00	2580
22	1924	13.00	68.00	32.00	174.00	309.00	340.00	383.00	274.00	341.00	313.00	481.00	171.00	2899
22	1925	87.00	23.00	14.00	95.00	181.00	274.00	338.00	214.00	333.00	412.00	371.00	89.00	2431
22	1926	18.00	33.00	10.00	11.00	209.00	407.00	367.00	357.99	360.00	381.00	533.00	284.00	2971
22	1927	87.00	42.00	35.00	209.00	393.00	385.00	354.00	230.00	298.00	249.00	366.00	233.00	2881
22	1928	78.00	36.00	97.00	84.00	270.00	330.00	240.00	435.99	307.00	390.00	421.00	195.00	2884
22	1929	13.00	24.00	51.00	51.00	302.00	244.00	230.00	348.00	233.00	330.00	307.00	124.00	2257
22	1930	64.00	28.00	12.00	143.00	272.00	182.00	232.00	239.00	268.00	226.00	249.00	134.00	2049

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22	1931	66.00	23.00	102.00	73.00	316.00	281.00	364.00	201.00	282.00	339.00	601.00	92.00	2740
22	1932	87.00	34.00	27.00	168.00	287.00	340.00	239.00	251.00	185.00	438.00	679.00	209.00	2944
22	1933	77.00	13.00	31.00	40.00	240.00	246.00	233.00	208.00	281.00	250.00	627.00	287.00	2533
22	1934	56.00	12.00	31.00	116.00	333.00	237.00	198.00	262.00	376.00	412.00	404.00	317.00	2754
22	1935	100.00	80.00	23.00	88.00	318.00	306.00	537.00	302.00	328.00	302.00	874.00	343.00	3601
22	1936	29.00	14.00	28.00	96.00	379.00	187.00	268.00	290.01	337.00	417.00	312.00	87.00	2444
22	1937	93.00	18.00	20.00	101.00	332.00	233.00	248.00	285.99	390.00	359.00	401.00	628.00	3109
22	1938	41.00	20.00	22.00	87.00	423.00	456.00	277.00	389.01	302.00	376.00	391.00	402.00	3186
22	1939	22.00	5.00	25.00	39.00	158.00	256.00	144.00	229.00	343.00	322.00	581.00	264.00	2388
22	1940	68.00	40.00	28.00	33.00	233.00	207.00	186.00	284.00	266.00	347.00	279.00	57.00	2028
22	1941	92.00	85.00	32.00	57.00	228.00	272.00	282.00	353.99	325.00	430.00	327.00	131.00	2615
22	1942	59.00	30.00	78.00	129.00	309.00	280.00	234.00	273.00	357.00	507.00	216.00	447.00	2919
22	1943	80.00	52.00	59.00	141.00	389.00	359.00	254.00	290.01	339.00	275.00	391.00	404.00	3033
22	1944	68.00	34.00	22.00	182.00	376.00	231.00	222.00	413.00	229.00	437.00	323.00	349.00	2886
22	1945	49.00	10.00	17.00	79.00	308.00	209.00	274.00	331.01	270.00	288.00	456.00	396.00	2687
22	1946	52.00	15.00	29.00	37.00	239.00	190.00	308.00	223.00	341.00	272.00	307.00	264.00	2277
22	1947	12.00	42.00	29.00	71.00	164.00	307.00	234.00	288.00	380.00	415.00	246.00	172.00	2360
22	1948	49.00	5.00	13.00	33.00	295.00	186.00	327.00	296.00	252.00	278.00	439.00	79.00	2252
22	1949	18.00	9.00	13.00	55.00	291.00	383.00	254.00	325.99	300.00	379.00	544.00	235.00	2807
22	1950	19.00	43.00	21.00	95.00	261.00	385.00	373.00	280.00	265.00	283.00	581.00	418.00	3024
22	1951	52.00	114.00	15.00	169.00	292.00	176.00	234.00	242.00	287.00	355.00	333.00	237.00	2506
22	1952	66.00	22.00	5.00	112.00	301.00	270.00	221.00	203.00	246.00	424.00	233.00	349.00	2452
22	1953	164.00	20.00	27.00	88.00	297.00	170.00	270.00	256.00	244.00	411.00	416.00	141.00	2504
22	1954	34.00	31.00	21.00	125.00	351.00	350.00	404.00	355.00	354.00	300.00	431.00	174.00	2930
22	1955	243.00	28.00	33.00	27.00	292.00	334.00	245.00	348.00	275.00	292.00	485.00	249.00	2851
22	1956	186.00	47.00	86.00	94.00	397.00	195.00	381.00	236.00	278.00	439.00	328.00	108.00	2775
22	1957	20.00	11.00	7.00	10.00	269.00	219.00	232.00	300.00	277.00	392.00	314.00	149.00	2200
22	1958	111.00	84.00	75.00	80.00	279.00	244.00	273.00	256.00	264.00	348.00	202.00	134.00	2350
22	1959	17.00	3.00	6.00	66.00	210.00	266.00	217.00	245.00	314.00	291.00	251.00	552.00	2438
22	1960	112.00	19.00	112.00	252.00	327.00	303.00	302.00	243.00	249.00	400.00	374.00	465.00	3158
22	1961	33.00	12.00	17.00	116.00	197.00	367.00	208.00	325.01	363.00	379.00	299.00	181.00	2497
22	1962	65.00	24.00	18.00	75.00	328.00	231.00	267.00	284.99	300.00	274.00	328.00	301.00	2496
22	1963	163.00	48.00	17.00	144.00	260.00	295.00	308.00	430.00	317.00	262.00	355.00	105.00	2704
22	1964	21.00	12.00	19.00	131.00	314.00	341.00	318.00	299.00	290.00	374.00	410.00	122.00	2651
22	1965	114.00	16.00	17.00	39.00	272.00	203.00	186.00	278.00	288.00	471.00	574.00	134.00	2592
22	1966	66.00	26.00	28.00	116.00	302.00	265.00	308.00	348.00	331.00	297.00	575.00	372.00	3034
22	1967	48.00	22.00	30.00	134.00	228.00	352.00	301.00	271.00	265.00	339.00	390.00	100.00	2480
22	1968	5.00	86.00	55.00	30.00	293.00	308.00	197.00	339.99	259.00	394.00	314.00	56.00	2337
22	1969	56.00	19.00	22.00	106.00	270.00	184.00	277.00	339.99	356.00	342.00	349.00	256.00	2577
22	1970	227.00	58.00	65.00	181.00	327.00	218.00	306.00	313.00	257.00	321.00	500.00	418.00	3191
22	1971	142.00	50.00	68.00	17.00	373.00	260.00	254.00	319.00	271.00	304.00	308.00	30.00	2396
22	1972	168.00	41.00	30.00	220.00	215.00	282.00	139.00	198.00	320.00	338.00	211.00	113.00	2275
22	1973	59.00	15.00	4.00	35.00	238.00	294.00	250.00	219.00	311.00	369.00	460.00	123.00	2377
22	1974	10.00	26.00	24.00	38.00	197.00	316.00	301.00	220.00	272.00	500.00	394.00	97.00	2395
22	1975	18.00	25.00	46.00	29.00	279.00	273.00	282.00	353.00	281.00	498.00	358.00	368.00	2810
22	1976	32.00	16.00	5.00	120.00	220.00	222.00	88.00	201.00	360.00	337.00	196.00	69.00	1866
22	1977	38.00	12.00	7.00	28.00	258.00	191.00	176.00	378.01	265.00	409.00	324.00	103.00	2189
22	1978	45.00	30.00	62.00	265.00	253.00	273.00	308.00	316.01	248.00	310.00	281.00	67.00	2458
22	1979	9.00	25.00	7.00	238.00	246.00	282.00	281.00	287.00	228.00	283.00	280.00	151.00	2317
22	1980	126.00	55.00	6.00	40.00	301.00	264.00	259.00	287.00	182.00	290.00	306.00	179.00	2295
22	1981	203.00	35.00	82.00	359.00	363.00	345.00	308.00	294.01	175.00	320.00	497.00	342.00	3323
22	1982	144.00	18.00	14.00	112.00	234.00	204.00	194.00	201.00	254.00	390.00	153.00	30.00	1948
22	1983	22.00	4.00	8.00	74.00	257.00	241.00	204.00	222.00	323.00	298.00	321.00	259.00	2233
22	1984	75.00	69.00	15.00	50.00	252.00	269.00	188.00	385.00	310.00	410.00	384.00	47.00	2454

22	1985	68.00	26.00	22.00	19.00	245.00	303.00	230.00	246.00	305.00	245.00	240.00	250.00	2199
22	1986	36.00	11.00	37.00	164.00	171.00	252.00	160.00	212.00	266.00	447.00	204.00	61.00	2021
22	1987	21.00	36.00	5.00	224.00	354.00	232.00	270.00	297.99	444.00	475.00	295.00	192.00	2846
22	1988	8.00	32.00	8.00	39.00	269.00	263.00	260.00	313.00	356.00	385.00	311.00	164.00	2408
22	1989	21.00	62.00	25.00	22.00	175.00	185.00	255.00	284.00	212.00	348.00	353.00	177.00	2119
22	1990	50.00	6.00	42.00	72.00	344.00	178.00	265.00	259.00	395.00	463.00	288.00	209.00	2571
22	1991	25.00	22.00	91.00	60.00	354.00	240.00	247.00	202.00	347.00	266.00	354.00	94.00	2302
22	1992	25.00	11.00	9.00	167.00	364.00	311.00	245.00	297.99	342.00	280.00	274.00	132.00	2458
22	1993	90.00	19.00	83.00	170.00	239.00	322.00	224.00	213.00	415.00	373.00	376.00	161.00	2685
22	1994	52.00	9.00	54.00	41.00	273.00	307.00	167.00	269.00	250.00	333.00	404.00	46.00	2205
22	1995	115.00	17.00	20.00	131.00	330.00	348.00	320.00	296.00	259.00	312.00	389.00	258.00	2795
22	1996	339.00	89.00	93.00	75.00	325.00	301.00	223.00	262.00	295.00	317.00	416.00	127.00	2862
22	1997	24.00	22.00	3.00	28.00	237.00	225.00	178.00	164.00	242.00	210.00	223.00	35.00	1591
22	1998	12.00	19.00	28.00	187.00	270.00	304.00	281.00	276.00	247.00	282.00	271.00	351.00	2528
22	1999	72.00	66.00	94.00	154.00	215.00	353.00	226.00	411.99	328.00	275.00	445.00	529.00	3169
22	2000	123.00	21.00	9.00	97.00	271.00	371.00	208.00	291.99	222.00	436.00	214.00	391.00	2655

1
GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 1

STA	22	MONTH 1	MEAN-0.005	STD DEVO.061
STA	22	MONTH 2	MEAN 0.002	STD DEVO.057
STA	22	MONTH 3	MEAN 0.006	STD DEVO.060
STA	22	MONTH 4	MEAN 0.011	STD DEVO.052
STA	22	MONTH 5	MEAN-0.006	STD DEVO.066
STA	22	MONTH 6	MEAN 0.000	STD DEVO.067
STA	22	MONTH 7	MEAN-0.009	STD DEVO.067
STA	22	MONTH 8	MEAN-0.004	STD DEVO.063
STA	22	MONTH 9	MEAN-0.005	STD DEVO.065
STA	22	MONTH 10	MEAN-0.005	STD DEVO.056
STA	22	MONTH 11	MEAN-0.002	STD DEVO.066
STA	22	MONTH 12	MEAN 0.001	STD DEVO.064

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	1	144.4	13.6	4.2	179.9	407.4	308.5	195.5	305.8	328.5	348.4	578.2	261.8	3076.0
22	2	43.9	42.8	59.4	64.4	327.7	250.5	221.8	317.0	357.1	393.1	315.4	153.5	2546.0
22	3	45.1	11.2	9.7	227.8	494.2	256.5	310.6	293.2	325.0	340.0	314.4	195.2	2823.0
22	4	6.7	20.9	25.8	58.0	302.1	279.8	122.7	259.3	199.2	278.7	363.0	137.9	2055.0
22	5	58.1	33.5	58.6	85.4	375.3	381.1	307.9	328.3	285.6	357.4	257.0	119.0	2647.0
22	6	42.3	13.5	34.8	202.5	262.6	173.6	202.7	269.0	283.0	415.8	448.0	358.7	2708.0
22	7	46.8	3.0	1.8	28.0	265.5	222.5	196.7	376.8	388.0	619.8	540.6	145.1	2836.0
22	8	109.5	58.7	146.1	155.4	181.8	257.7	215.8	259.8	242.6	368.0	462.4	161.6	2621.0
22	9	79.5	36.8	8.9	44.8	258.4	221.3	283.7	307.0	394.7	322.6	411.1	387.9	2757.0
22	10	72.4	11.6	12.5	49.7	217.2	382.1	283.0	251.1	316.7	295.0	390.0	94.4	2375.0
22	11	42.0	39.2	80.4	259.0	335.9	226.8	278.7	213.9	322.5	304.3	397.9	574.5	3075.0
22	12	85.3	19.8	51.9	340.9	224.5	145.4	164.8	278.3	293.1	455.5	603.6	121.7	2785.0
22	13	15.4	6.6	14.6	163.9	257.4	326.8	310.4	305.8	278.6	273.7	304.8	192.1	2451.0
22	14	86.1	28.1	13.0	144.8	286.3	342.4	285.5	221.7	349.7	364.4	317.0	124.4	2562.0
22	15	33.2	12.6	39.8	81.8	359.2	292.6	175.3	208.1	319.9	493.9	281.6	92.3	2391.0
22	16	157.2	84.4	51.2	116.0	398.4	254.7	270.8	225.8	250.4	458.6	430.6	315.2	3013.0
22	17	134.1	19.7	29.6	20.0	233.7	415.5	283.8	278.1	350.5	377.8	287.9	50.1	2483.0
22	18	49.6	30.3	10.4	115.5	331.0	220.7	183.7	288.1	396.2	408.9	274.9	498.6	2808.0
22	19	72.6	30.8	20.6	216.2	350.4	325.3	198.6	180.0	277.1	345.5	289.9	29.4	2337.0
22	20	36.4	24.1	16.5	122.9	319.2	291.4	146.3	325.0	358.5	374.2	188.9	198.5	2399.0
22	21	50.7	63.1	13.6	64.4	255.7	255.2	130.2	272.8	297.8	348.9	607.7	171.5	2533.0
22	22	45.7	35.1	2.3	42.7	325.3	298.9	184.3	361.5	372.3	495.3	464.3	281.2	2908.0

22	23	53.1	24.1	50.4	181.0	326.7	204.1	281.6	281.8	395.6	260.1	168.8	182.0	2410.0
22	24	70.4	74.7	94.3	20.5	200.4	170.1	281.5	278.6	327.6	427.0	209.1	61.5	2215.0
22	25	34.2	25.6	16.1	32.9	295.3	201.7	200.4	192.8	322.7	269.6	336.3	147.6	2076.0
22	26	17.6	9.9	31.4	104.4	311.9	192.3	177.9	272.0	298.0	392.9	246.2	164.5	2218.0
22	27	21.0	18.2	11.3	27.0	309.9	209.0	300.2	365.7	268.7	355.4	287.0	191.9	2365.0
22	28	59.0	53.1	12.9	56.2	261.8	212.5	193.7	205.2	176.7	260.5	315.9	127.4	1935.0
22	29	95.9	49.6	13.5	76.1	363.6	341.2	150.9	259.7	264.8	387.4	335.9	75.8	2415.0
22	30	27.4	20.1	23.4	155.4	290.9	286.3	350.9	232.8	339.8	453.3	291.9	248.6	2720.0
22	31	109.3	42.8	24.3	32.5	104.7	159.4	278.2	233.4	290.8	284.4	606.3	289.0	2453.0
22	32	13.6	26.5	56.4	22.4	160.7	208.8	247.7	281.5	311.2	317.7	413.3	341.9	2401.0
22	33	175.4	44.0	29.5	416.6	353.9	237.2	188.9	197.5	239.8	406.7	354.3	326.6	2972.0
22	34	50.1	59.5	35.2	177.4	191.5	313.2	320.3	309.1	349.8	399.4	483.1	141.9	2829.0
22	35	109.8	31.8	82.1	87.5	331.8	419.8	359.4	383.7	230.4	300.5	411.9	97.2	2846.0
22	36	82.5	73.4	43.5	145.4	237.2	249.2	154.2	277.7	274.7	281.0	612.0	131.1	2561.0
22	37	27.6	24.0	20.9	98.4	289.6	244.7	132.4	239.2	364.7	382.0	809.6	253.1	2887.0
22	38	108.4	15.6	10.1	13.6	326.6	256.2	228.2	282.6	286.1	479.2	336.9	442.8	2787.0
22	39	19.5	38.6	56.4	36.7	257.5	272.3	240.6	270.2	217.4	236.8	203.1	99.3	1949.0
22	40	15.8	24.3	8.8	151.8	310.3	282.0	266.8	392.1	352.4	428.7	326.6	206.4	2766.0
22	41	45.8	4.2	4.1	258.6	358.9	376.7	288.3	356.9	283.6	422.7	416.8	47.6	2866.0
22	42	60.4	31.3	107.8	56.5	263.7	356.7	194.1	362.8	268.3	448.6	499.4	176.6	2827.0
22	43	95.2	16.5	12.2	90.8	274.5	247.8	210.4	288.3	329.5	447.3	563.5	154.5	2731.0
22	44	224.4	43.0	27.9	60.6	270.9	273.0	293.6	290.0	295.3	463.3	425.2	298.8	2966.0
22	45	35.0	17.4	34.1	139.1	329.1	306.6	163.8	201.8	248.2	512.1	374.8	157.9	2520.0
22	46	81.9	21.0	15.5	44.0	364.1	317.4	284.4	243.4	363.9	462.7	502.9	206.4	2907.0
22	47	24.4	14.6	23.2	65.5	284.0	307.1	231.3	202.3	276.7	315.4	228.5	61.3	2032.0
22	48	201.8	8.9	9.4	39.5	286.3	238.3	263.1	221.0	282.5	273.8	415.1	194.2	2433.0
22	49	32.7	15.4	7.8	112.9	383.6	241.1	235.5	259.9	231.2	306.4	329.2	334.4	2490.0
22	50	51.8	60.4	38.3	69.6	257.6	208.7	99.8	259.8	210.8	275.3	500.3	540.4	2573.0
22	51	427.4	64.1	10.0	237.1	253.6	277.8	266.1	239.0	350.1	254.3	287.4	91.2	2757.0
22	52	52.8	7.8	37.8	26.0	282.0	365.8	306.2	252.5	253.4	411.0	317.8	100.7	2414.0
22	53	52.7	38.9	41.2	68.4	285.2	203.7	372.6	386.3	289.6	247.4	279.4	279.9	2545.0
22	54	115.6	26.3	30.1	77.0	289.8	185.5	223.6	267.0	275.9	400.3	231.9	92.4	2216.0
22	55	127.2	121.9	23.5	115.6	242.2	283.9	307.6	251.4	299.9	334.1	180.5	170.6	2458.0
22	56	90.7	10.5	37.3	58.7	206.9	235.3	280.7	188.6	338.3	215.4	285.2	170.7	2119.0
22	57	19.1	68.9	37.6	114.8	200.9	230.6	172.3	341.7	222.4	308.7	266.0	116.8	2101.0
22	58	49.6	46.5	59.3	63.0	273.6	266.9	260.0	376.9	248.6	320.3	500.8	224.5	2691.0
22	59	46.5	66.4	18.8	210.3	339.7	402.4	404.4	285.4	241.1	320.4	539.1	326.1	3199.0
22	60	68.4	77.0	33.2	9.8	237.6	359.6	201.2	248.8	281.6	321.9	456.1	108.1	2404.0
22	61	6.9	6.8	45.3	119.1	289.9	342.7	327.9	264.8	274.5	397.2	310.7	645.1	3031.0
22	62	33.1	28.5	27.4	141.6	212.9	245.4	238.2	231.5	325.9	532.0	207.8	29.0	2253.0
22	63	48.1	21.3	79.4	80.0	260.4	307.5	234.2	187.8	287.4	351.0	264.5	288.3	2408.0
22	64	40.8	47.0	73.6	142.5	319.8	233.5	211.2	311.2	293.2	357.4	332.3	99.2	2460.0
22	65	42.1	13.1	46.1	54.2	235.5	329.9	268.8	238.6	276.5	479.1	336.3	148.4	2468.0
22	66	131.8	32.2	34.7	118.3	168.9	265.0	379.9	348.1	279.5	454.2	360.6	110.5	2684.0
22	67	13.9	11.9	40.5	52.3	375.8	253.0	222.7	291.9	349.5	467.4	381.0	43.7	2504.0
22	68	6.2	6.1	10.5	116.6	386.5	321.2	278.6	188.7	273.9	361.0	286.9	182.4	2419.0
22	69	25.9	39.4	6.7	246.9	354.1	268.1	250.0	408.3	426.2	300.8	665.9	692.7	3685.0
22	70	172.6	115.6	7.7	38.8	249.3	199.9	194.9	192.7	242.5	303.8	336.7	157.3	2213.0
22	71	72.9	47.9	56.0	287.8	290.9	266.9	418.6	366.8	278.4	286.8	272.1	199.0	2845.0
22	72	43.7	5.3	32.6	121.6	360.5	376.8	277.2	271.4	254.4	305.5	335.2	77.4	2460.0
22	73	173.4	25.4	25.8	100.2	318.8	239.9	297.7	386.0	324.7	302.3	405.2	190.4	2789.0
22	74	279.7	55.0	34.1	92.0	262.9	243.2	292.0	205.2	264.3	321.3	213.0	239.9	2502.0
22	75	55.2	38.6	28.1	24.1	314.2	305.0	394.7	313.1	231.5	394.5	326.8	228.5	2653.0
22	76	85.4	11.2	25.6	99.5	282.6	332.2	230.4	292.2	318.4	250.3	595.3	588.1	3109.0

22	77	84.6	30.0	22.7	265.4	350.6	183.8	247.1	297.1	343.5	557.6	412.4	113.4	2909.0
22	78	23.3	23.5	57.4	106.1	293.8	261.5	379.3	313.9	330.6	280.3	505.4	210.1	2784.0
22	79	35.4	34.2	16.0	117.8	262.8	242.6	253.0	375.4	426.9	463.8	512.8	297.3	3038.0
22	80	36.8	29.3	20.5	38.1	258.4	266.7	335.9	314.4	274.2	228.8	449.3	460.5	2713.0
22	81	11.3	26.8	5.6	155.1	211.0	300.5	296.7	282.4	315.3	300.4	267.1	42.5	2214.0
22	82	18.5	28.7	31.2	45.9	257.3	235.8	295.6	276.1	312.1	353.2	346.0	95.5	2296.0
22	83	42.2	9.5	38.1	41.0	284.4	213.1	281.2	313.6	220.3	377.5	286.3	247.4	2353.0
22	84	9.6	11.8	56.8	66.7	231.8	286.2	276.1	323.0	335.0	350.0	406.1	219.2	2573.0
22	85	35.6	85.5	44.6	53.7	313.2	274.4	371.5	290.3	246.8	302.1	471.9	414.0	2903.0
22	86	86.9	66.0	27.9	141.1	276.5	419.9	392.5	333.3	287.1	374.4	264.4	63.1	2732.0
22	87	24.8	43.1	30.8	52.1	303.4	332.0	339.5	306.4	340.7	294.9	261.8	51.9	2381.0
22	88	53.0	22.2	25.8	45.1	260.1	368.3	210.4	170.6	171.6	323.0	285.7	226.4	2162.0
22	89	140.5	29.6	2.1	40.0	224.9	248.7	247.0	297.3	324.0	308.1	573.3	308.0	2744.0
22	90	103.0	31.1	23.2	56.7	257.4	329.9	357.2	312.4	308.7	399.7	248.5	45.3	2473.0
22	91	26.9	51.3	10.6	62.2	214.2	206.7	232.9	388.5	355.8	245.2	272.0	230.8	2297.0
22	92	82.0	21.5	16.2	113.7	369.8	311.4	214.1	276.9	249.3	291.5	382.0	195.0	2522.0
22	93	11.6	6.7	24.6	96.5	308.6	294.4	233.3	282.7	302.8	332.3	255.4	120.9	2270.0
22	94	69.7	35.9	75.3	30.1	204.7	352.8	231.5	229.2	225.4	317.5	332.9	392.9	2498.0
22	95	141.2	78.6	22.5	89.7	195.1	282.8	386.1	347.3	244.1	419.5	370.7	225.3	2803.0
22	96	300.0	25.6	14.6	54.1	269.2	250.7	287.6	340.5	232.9	342.8	302.6	344.7	2767.0
22	97	32.0	32.4	14.0	21.2	239.7	220.6	315.2	276.3	406.0	425.1	356.4	222.4	2560.0
22	98	24.0	14.4	4.2	149.4	294.1	330.9	285.6	291.5	363.8	369.7	241.1	107.8	2476.0
22	99	26.0	5.0	29.1	258.2	262.6	225.9	307.6	455.1	342.0	496.4	210.8	18.0	2637.0
22	100	21.5	26.6	23.9	31.7	210.1	291.3	147.3	254.0	281.7	321.3	310.1	76.9	1996.0

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MAXIMUM VOLUMES FOR PERIOD 1 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	427.4	121.9	146.1	416.6	494.2	419.9	418.6	455.1	426.9	619.8	809.6	692.7	809.6	2743.9	13739.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	6.2	3.0	1.8	9.8	104.7	145.4	99.8	170.6	171.6	215.4	168.8	18.0	1.8	331.9	9100.
STA 22 MONTH 1 MEAN	71.02	VARIANCE	4452.12	STAN. DEV.	66.72										
STA 22 MONTH 2 MEAN	33.04	VARIANCE	562.52	STAN. DEV.	23.72										
STA 22 MONTH 3 MEAN	31.23	VARIANCE	605.04	STAN. DEV.	24.60										
STA 22 MONTH 4 MEAN	104.73	VARIANCE	6050.04	STAN. DEV.	77.78										
STA 22 MONTH 5 MEAN	282.04	VARIANCE	4480.24	STAN. DEV.	66.93										
STA 22 MONTH 6 MEAN	272.44	VARIANCE	4459.74	STAN. DEV.	66.78										
STA 22 MONTH 7 MEAN	256.59	VARIANCE	5334.41	STAN. DEV.	73.04										
STA 22 MONTH 8 MEAN	281.99	VARIANCE	4218.24	STAN. DEV.	64.95										
STA 22 MONTH 9 MEAN	295.49	VARIANCE	3712.06	STAN. DEV.	60.93										
STA 22 MONTH 10 MEAN	358.42	VARIANCE	7660.14	STAN. DEV.	87.52										
STA 22 MONTH 11 MEAN	365.22	VARIANCE	16324.31	STAN. DEV.	127.77										
STA 22 MONTH 12 MEAN	206.19	VARIANCE	19664.21	STAN. DEV.	140.23										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 2

STA 22 MONTH 1	MEAN 0.005	STD DEVO.064
STA 22 MONTH 2	MEAN 0.009	STD DEVO.053
STA 22 MONTH 3	MEAN-0.006	STD DEVO.063
STA 22 MONTH 4	MEAN-0.012	STD DEVO.067
STA 22 MONTH 5	MEAN 0.004	STD DEVO.062
STA 22 MONTH 6	MEAN-0.003	STD DEVO.068
STA 22 MONTH 7	MEAN-0.001	STD DEVO.065

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STA 22 MONTH 8 MEAN 0.003 STD DEVO 0.059
 STA 22 MONTH 9 MEAN -0.001 STD DEVO 0.066
 STA 22 MONTH 10 MEAN 0.003 STD DEVO 0.069
 STA 22 MONTH 11 MEAN 0.003 STD DEVO 0.060
 STA 22 MONTH 12 MEAN 0.011 STD DEVO 0.072

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	101	10.8	38.6	47.5	62.9	320.5	194.8	283.5	231.8	329.3	353.3	554.0	228.6	2657.0
22	102	102.9	31.9	8.2	84.4	410.1	419.6	250.6	233.4	281.3	362.5	465.6	201.7	2853.0
22	103	69.2	11.1	33.0	227.1	216.7	182.3	223.1	182.0	323.0	452.5	225.8	248.3	2393.0
22	104	146.2	54.2	19.4	80.0	305.7	230.3	334.7	333.5	227.6	308.4	451.4	265.2	2756.0
22	105	73.9	13.1	20.9	36.6	180.9	234.2	170.6	255.9	246.1	303.5	622.0	528.3	2686.0
22	106	79.4	85.3	49.8	119.4	342.0	245.5	182.4	303.8	249.8	267.7	370.0	233.9	2528.0
22	107	25.1	19.5	3.2	35.1	228.8	332.3	360.0	387.3	250.0	255.9	345.1	95.9	2338.0
22	108	42.2	78.3	35.0	46.8	282.8	197.4	229.4	280.4	220.5	565.3	443.6	133.6	2554.0
22	109	21.7	54.5	33.0	66.9	200.9	229.7	350.9	273.7	320.5	269.5	357.5	295.9	2477.0
22	110	68.6	14.8	2.2	94.2	334.2	204.0	252.0	288.4	305.8	296.7	375.9	219.5	2456.0
22	111	140.4	72.3	92.2	452.0	352.5	289.4	405.6	404.1	246.8	312.8	340.4	236.6	3345.0
22	112	120.9	33.7	36.6	288.8	385.2	259.0	383.7	275.3	241.7	371.1	361.1	210.3	2968.0
22	113	18.2	8.4	24.1	47.1	227.9	307.2	194.4	349.7	320.5	467.1	293.7	24.5	2282.0
22	114	34.3	35.9	27.8	105.2	262.8	320.0	256.9	245.5	201.9	295.0	482.7	212.4	2481.0
22	115	80.3	16.2	22.0	75.0	185.1	237.8	269.6	261.2	306.6	441.0	431.9	79.0	2406.0
22	116	53.3	28.5	56.5	135.1	208.8	279.5	311.4	356.7	240.7	293.6	453.1	243.0	2661.0
22	117	43.7	31.3	32.6	36.4	301.4	321.2	227.9	400.0	351.2	423.0	240.9	137.8	2547.0
22	118	26.5	31.9	18.7	104.5	275.4	290.7	159.5	271.5	358.4	305.5	413.4	118.5	2373.0
22	119	33.4	58.6	19.3	57.7	259.8	264.3	360.6	218.4	352.6	256.1	520.3	89.4	2490.0
22	120	64.3	9.4	15.4	166.8	361.2	321.2	263.1	339.2	404.7	306.2	423.3	202.7	2876.0
22	121	52.3	14.5	20.1	31.8	252.8	197.6	332.7	204.9	252.3	245.2	343.5	68.5	2017.0
22	122	60.8	37.1	74.1	114.7	259.9	456.5	272.0	308.3	296.8	450.4	302.8	84.4	2718.0
22	123	62.6	22.2	18.8	90.7	312.6	384.1	181.2	286.4	261.0	379.5	770.1	183.2	2952.0
22	124	27.6	26.3	13.8	122.8	302.3	343.8	333.1	395.8	289.4	339.2	401.6	137.7	2734.0
22	125	52.4	25.6	24.1	72.7	231.9	180.0	305.0	233.7	291.8	409.6	292.3	350.9	2471.0
22	126	131.1	16.2	47.5	151.5	281.7	183.1	242.0	366.5	267.1	623.8	275.4	72.9	2658.0
22	127	57.0	20.6	19.6	82.9	236.8	255.6	293.6	205.4	217.8	325.8	417.7	187.2	2322.0
22	128	19.9	17.9	13.4	90.2	341.5	316.4	292.6	319.9	346.0	491.4	338.2	595.2	3182.0
22	129	111.5	8.0	47.9	138.3	323.8	287.6	268.3	339.5	314.6	427.1	301.9	99.6	2669.0
22	130	121.3	14.9	11.6	19.6	276.3	283.5	245.9	240.7	389.1	306.8	323.2	280.5	2513.0
22	131	25.4	27.0	10.9	21.0	200.8	277.0	197.5	203.8	299.6	606.8	242.2	94.7	2208.0
22	132	57.0	18.9	18.6	52.3	250.9	187.7	319.2	266.5	337.9	391.9	186.0	386.4	2474.0
22	133	249.8	10.1	7.1	34.6	220.8	423.4	207.8	279.6	303.4	473.6	235.0	186.6	2633.0
22	134	27.1	17.0	17.9	70.6	198.3	347.8	234.7	193.0	240.4	410.7	302.0	280.3	2340.0
22	135	52.4	13.0	48.1	147.5	288.9	450.9	157.8	302.8	362.8	476.6	441.7	133.3	2877.0
22	136	11.3	23.9	52.2	63.8	253.2	379.5	282.9	271.9	336.8	261.7	505.6	197.5	2641.0
22	137	26.8	85.0	71.1	59.7	365.0	319.6	348.3	284.9	257.5	253.4	194.2	209.5	2475.0
22	138	41.5	22.7	11.8	16.9	129.9	203.3	128.1	257.2	421.4	358.6	522.3	595.1	2708.0
22	139	79.2	15.4	15.3	160.6	289.7	350.6	261.0	214.4	269.9	302.3	240.5	37.6	2237.0
22	140	12.8	22.8	19.2	42.2	228.3	205.0	318.6	286.9	249.7	329.8	308.9	210.0	2235.0
22	141	5.7	30.5	115.4	474.8	240.2	247.7	384.8	287.8	298.3	360.4	327.6	303.2	3077.0
22	142	79.0	30.3	38.6	86.1	251.1	302.9	182.3	272.0	294.3	367.3	633.6	513.2	3050.0
22	143	54.3	19.6	15.5	100.4	277.1	227.6	205.6	253.2	358.2	348.5	192.4	79.4	2131.0
22	144	31.3	80.4	129.7	231.6	351.0	318.7	197.8	230.1	180.2	315.4	253.9	214.1	2534.0
22	145	208.0	140.6	12.2	73.2	303.1	296.3	150.4	245.4	288.3	328.9	241.8	72.2	2359.0
22	146	174.7	5.6	5.5	9.4	248.1	234.3	228.2	336.6	353.6	352.5	359.6	269.6	2579.0
22	147	106.8	15.0	12.1	100.5	243.6	342.6	189.8	261.9	428.9	397.9	439.9	221.2	2761.0

22	148	43.3	15.3	21.7	174.1	318.1	259.5	291.5	228.9	345.3	481.8	362.5	215.0	2757.0
22	149	71.8	9.8	47.2	169.3	301.8	204.3	291.3	297.6	362.1	266.2	306.6	216.9	2545.0
22	150	80.0	29.3	11.4	54.3	396.5	227.8	178.1	306.6	295.5	269.3	261.3	83.1	2191.0
22	151	21.1	26.2	19.3	61.3	243.7	296.5	239.2	388.2	360.9	462.0	482.6	220.9	2822.0
22	152	9.6	39.3	18.3	35.7	306.4	295.9	221.5	252.4	363.0	327.7	382.2	458.9	2711.0
22	153	111.4	36.3	67.2	193.4	274.5	199.1	215.6	265.2	197.3	296.2	535.6	436.8	2828.0
22	154	106.0	19.3	15.3	73.4	262.6	271.6	234.0	287.3	279.3	413.2	245.7	46.2	2253.0
22	155	61.5	18.5	58.4	47.9	366.5	212.5	81.6	212.5	297.2	324.1	502.1	227.4	2409.0
22	156	86.6	59.0	50.2	138.5	355.5	255.1	219.6	345.6	288.8	437.3	196.5	122.5	2556.0
22	157	20.1	5.5	15.1	52.4	281.3	218.2	201.5	204.5	308.2	380.2	297.8	138.5	2120.0
22	158	76.7	62.4	59.5	151.0	315.7	262.3	196.8	204.2	277.1	273.2	443.7	241.5	2564.0
22	159	217.5	97.1	21.8	178.6	307.1	248.3	194.0	329.3	337.9	342.2	210.6	82.4	2567.0
22	160	22.0	88.2	98.4	130.6	445.3	280.8	369.7	350.9	335.0	339.5	296.8	185.7	2943.0
22	161	86.1	56.4	9.4	22.0	226.2	322.9	226.6	268.0	335.0	464.9	409.6	24.6	2452.0
22	162	36.4	16.2	5.3	75.4	258.4	271.3	263.2	335.3	337.2	361.0	396.1	136.6	2490.0
22	163	112.5	128.3	29.2	88.2	241.7	261.6	320.1	293.9	317.4	413.4	377.2	195.6	2778.0
22	164	130.3	23.1	115.0	227.6	235.8	340.0	299.9	298.6	257.7	264.0	318.9	196.9	2709.0
22	165	63.6	21.7	30.5	132.9	502.1	261.2	261.7	314.0	257.5	434.8	417.7	113.4	2812.0
22	166	11.1	27.8	43.4	148.9	341.5	281.3	191.1	266.5	149.6	392.1	267.3	307.5	2427.0
22	167	26.7	23.7	11.7	215.5	185.4	220.5	189.6	231.1	363.0	446.2	396.4	208.6	2519.0
22	168	15.5	20.4	2.8	142.8	360.0	230.5	227.5	302.1	244.5	366.5	381.9	228.8	2523.0
22	169	72.1	54.2	12.3	100.4	312.5	225.0	171.2	241.7	415.1	431.8	260.2	557.3	2853.0
22	170	92.6	34.4	39.4	136.9	265.7	323.8	362.0	368.5	315.8	468.2	683.5	125.8	3218.0
22	171	118.4	80.4	84.5	16.2	245.9	167.7	289.5	307.2	258.3	487.2	273.2	650.9	2978.0
22	172	204.3	33.3	41.8	79.0	445.9	252.5	253.7	343.7	338.7	373.3	280.0	83.9	2731.0
22	173	41.5	5.6	17.4	67.6	328.7	238.6	274.3	321.5	247.5	431.3	266.2	74.2	2313.0
22	174	207.8	40.9	32.3	204.4	291.4	190.4	118.5	258.4	343.9	362.8	324.2	74.2	2447.0
22	175	22.4	9.8	7.2	83.7	267.5	247.0	350.5	280.5	339.6	396.4	310.6	208.0	2522.0
22	176	8.9	33.4	59.7	121.3	304.9	340.5	258.0	226.4	276.4	303.6	309.7	52.5	2296.0
22	177	50.6	34.7	32.8	61.0	271.9	272.1	288.9	205.1	306.1	323.2	573.7	454.5	2875.0
22	178	125.1	34.3	16.7	134.1	384.1	217.2	266.4	346.8	231.2	221.1	227.7	148.1	2352.0
22	179	25.1	29.6	10.6	137.7	329.9	340.1	246.6	375.1	302.7	423.4	535.9	354.5	3112.0
22	180	109.5	6.4	27.8	150.9	256.7	349.7	268.3	354.4	318.2	291.7	650.4	110.9	2894.0
22	181	36.6	68.7	12.4	67.9	254.4	243.0	279.6	226.7	369.0	330.6	291.4	136.3	2317.0
22	182	12.6	55.6	24.0	52.8	291.7	299.9	324.6	222.9	345.2	323.4	426.3	106.5	2486.0
22	183	25.2	41.4	16.3	103.9	335.3	227.7	230.1	204.0	241.4	339.8	284.0	198.0	2246.0
22	184	9.7	13.5	25.2	70.5	307.3	164.8	398.9	332.6	353.0	366.8	346.5	80.8	2469.0
22	185	34.3	12.3	20.6	199.2	239.9	252.4	335.3	367.6	320.0	267.8	494.8	53.6	2598.0
22	186	145.5	12.0	45.6	40.1	200.5	307.2	225.6	241.9	332.7	331.7	544.3	158.0	2586.0
22	187	72.0	14.5	40.7	107.6	284.8	313.3	432.2	383.8	270.6	289.3	495.0	341.4	3046.0
22	188	109.5	33.5	10.4	16.5	233.3	299.0	219.3	230.1	302.0	234.4	261.0	248.4	2195.0
22	189	92.3	16.8	2.2	58.0	267.3	252.0	293.8	252.2	306.3	257.5	351.6	153.5	2302.0
22	190	34.7	16.7	31.8	50.2	189.9	202.7	150.6	175.3	226.1	415.0	361.1	292.6	2148.0
22	191	53.1	63.4	35.9	171.8	260.0	289.3	207.5	283.4	325.5	271.8	415.5	390.8	2767.0
22	192	39.3	4.3	14.0	16.8	285.8	301.6	356.5	279.9	264.6	296.1	356.0	55.7	2272.0
22	193	56.9	44.8	46.5	39.0	372.0	320.5	226.5	188.4	271.7	383.6	214.8	73.1	2240.0
22	194	5.3	5.1	7.1	83.1	247.3	327.0	259.7	414.5	278.5	355.6	202.2	64.7	2250.0
22	195	44.9	15.1	12.1	60.2	276.2	431.2	385.6	234.4	297.7	304.7	306.4	468.3	2836.0
22	196	329.7	48.8	58.4	192.5	297.3	268.6	280.7	281.4	311.9	407.7	169.9	212.9	2861.0
22	197	87.3	38.2	21.1	28.8	261.6	296.7	214.3	457.7	272.4	249.0	413.7	46.6	2388.0
22	198	69.9	33.9	41.3	234.2	333.5	282.2	240.4	287.2	235.5	376.2	296.6	189.3	2620.0
22	199	30.7	41.6	100.8	76.1	250.3	244.7	186.6	255.4	247.7	480.6	348.8	48.4	2313.0
22	200	45.7	60.6	10.8	13.0	184.8	268.6	259.8	288.7	273.1	379.9	462.8	339.9	2590.0

MAXIMUM VOLUMES FOR PERIOD 2 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	329.7	140.6	129.7	474.8	502.1	456.5	432.2	457.7	428.9	623.8	770.1	650.9	770.1	2521.8	13758.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	5.3	4.3	2.2	9.4	129.9	164.8	81.6	175.3	149.6	221.1	169.9	24.5	2.2	362.8	9924.
STA 22 MONTH 1 MEAN	69.72	VARIANCE	3380.61	STAN. DEV.	58.14										
STA 22 MONTH 2 MEAN	33.09	VARIANCE	678.67	STAN. DEV.	26.05										
STA 22 MONTH 3 MEAN	31.90	VARIANCE	706.16	STAN. DEV.	26.57										
STA 22 MONTH 4 MEAN	104.59	VARIANCE	6286.33	STAN. DEV.	79.29										
STA 22 MONTH 5 MEAN	282.22	VARIANCE	4658.38	STAN. DEV.	68.25										
STA 22 MONTH 6 MEAN	272.73	VARIANCE	4634.99	STAN. DEV.	68.08										
STA 22 MONTH 7 MEAN	255.41	VARIANCE	5447.88	STAN. DEV.	73.81										
STA 22 MONTH 8 MEAN	281.72	VARIANCE	4360.19	STAN. DEV.	66.03										
STA 22 MONTH 9 MEAN	295.61	VARIANCE	3674.82	STAN. DEV.	60.62										
STA 22 MONTH 10 MEAN	357.93	VARIANCE	7823.40	STAN. DEV.	88.45										
STA 22 MONTH 11 MEAN	363.30	VARIANCE	15550.82	STAN. DEV.	124.70										
STA 22 MONTH 12 MEAN	203.70	VARIANCE	19408.62	STAN. DEV.	139.31										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 3

STA 22 MONTH 1 MEAN	0.004	STD DEVO	0.055
STA 22 MONTH 2 MEAN	0.003	STD DEVO	0.057
STA 22 MONTH 3 MEAN	0.003	STD DEVO	0.056
STA 22 MONTH 4 MEAN	-0.007	STD DEVO	0.057
STA 22 MONTH 5 MEAN	0.003	STD DEVO	0.066
STA 22 MONTH 6 MEAN	0.006	STD DEVO	0.065
STA 22 MONTH 7 MEAN	0.003	STD DEVO	0.064
STA 22 MONTH 8 MEAN	-0.010	STD DEVO	0.064
STA 22 MONTH 9 MEAN	-0.004	STD DEVO	0.066
STA 22 MONTH 10 MEAN	0.003	STD DEVO	0.062
STA 22 MONTH 11 MEAN	0.003	STD DEVO	0.066
STA 22 MONTH 12 MEAN	0.000	STD DEVO	0.062

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	201	95.7	33.3	163.1	214.8	256.6	207.7	146.3	216.4	323.2	355.7	470.7	166.1	2650.0
22	202	131.7	38.1	59.1	17.7	300.5	306.0	280.2	349.7	325.3	445.5	271.6	261.5	2787.0
22	203	61.1	87.4	30.8	168.9	428.1	327.5	351.1	226.2	260.9	378.9	250.7	214.8	2786.0
22	204	163.2	45.4	47.9	44.5	248.1	178.4	251.1	261.0	247.3	500.3	240.9	76.4	2303.0
22	205	40.2	24.4	30.4	98.0	253.1	162.4	203.4	358.6	315.9	654.1	287.8	231.9	2659.0
22	206	25.1	12.3	4.7	150.8	271.2	236.1	254.5	273.1	359.3	350.9	578.3	80.7	2596.0
22	207	77.9	61.3	12.9	61.8	275.4	243.3	238.4	205.1	207.5	225.2	353.5	74.3	2034.0
22	208	46.4	10.5	45.0	127.2	295.0	264.0	366.1	365.4	340.7	338.3	383.3	152.5	2734.0
22	209	5.6	5.7	82.2	219.9	395.2	268.0	329.1	278.0	334.6	402.7	192.4	157.4	2671.0
22	210	58.1	110.9	20.7	69.5	357.7	195.3	338.2	263.1	346.1	464.4	294.2	234.3	2751.0
22	211	28.0	15.0	27.1	78.8	253.5	222.9	262.1	322.7	347.4	508.6	263.9	435.6	2766.0
22	212	88.3	31.3	19.1	75.1	278.6	289.2	260.7	283.4	353.0	414.0	409.7	114.6	2617.0
22	213	29.7	40.6	46.6	162.6	323.5	178.6	150.2	224.4	369.5	382.2	316.0	225.9	2450.0
22	214	38.3	18.8	13.7	229.4	340.1	273.5	201.8	356.6	354.9	469.3	315.1	76.4	2688.0
22	215	22.9	28.3	20.8	90.9	314.9	230.5	149.2	251.1	271.3	253.2	274.5	494.0	2401.0
22	216	15.3	12.5	12.2	92.0	245.6	268.9	175.9	260.4	241.1	375.3	336.9	106.1	2142.0
22	217	25.3	9.6	32.7	276.8	264.9	245.1	227.1	216.5	264.1	324.1	498.1	176.2	2561.0
22	218	135.7	41.3	22.4	61.7	209.5	141.2	232.9	199.2	240.1	429.5	551.7	822.7	3088.0

22	219	153.7	11.1	74.3	57.4	279.9	263.9	197.9	338.6	227.5	286.9	287.7	170.1	2350.0
22	220	11.9	47.8	9.6	88.7	369.5	284.9	211.2	235.3	326.5	329.5	282.6	163.5	2363.0
22	221	78.6	45.7	22.4	93.1	208.8	387.3	361.9	288.7	220.7	280.3	491.9	341.2	2821.0
22	222	53.9	35.6	24.9	99.0	189.5	246.2	239.2	261.1	322.4	263.7	316.9	358.4	2410.0
22	223	311.0	24.3	34.9	47.6	283.5	299.9	212.6	282.7	285.2	218.3	476.2	316.8	2794.0
22	224	19.2	47.2	20.1	24.8	227.9	284.8	132.2	314.4	189.9	277.9	380.0	78.5	1996.0
22	225	153.0	39.9	36.8	21.7	221.9	195.1	323.1	216.9	266.1	279.8	328.6	169.1	2253.0
22	226	99.5	63.5	21.4	79.4	273.2	260.6	353.2	244.6	275.4	441.3	331.5	134.1	2577.0
22	227	142.0	20.3	67.4	180.8	414.3	379.6	247.7	227.0	274.2	465.9	389.8	185.5	2994.0
22	228	171.5	34.9	3.9	42.9	353.4	200.2	209.3	263.2	276.5	412.5	250.1	24.8	2242.0
22	229	8.6	55.7	41.3	101.0	350.4	308.7	226.7	257.6	320.6	322.9	789.3	134.6	2919.0
22	230	57.1	32.2	46.1	28.1	239.3	245.9	190.1	308.9	380.6	252.8	221.8	164.3	2167.0
22	231	39.6	88.0	28.5	66.2	310.9	232.6	129.8	259.2	294.3	283.7	509.8	155.7	2400.0
22	232	102.6	77.6	50.2	147.6	246.9	226.2	289.2	284.6	299.9	333.8	276.2	134.0	2470.0
22	233	21.3	55.1	18.7	43.2	326.4	257.6	195.5	256.3	358.2	350.3	323.3	336.3	2541.0
22	234	65.4	39.9	38.7	9.9	249.0	378.1	322.0	273.0	348.9	365.9	276.8	50.9	2419.0
22	235	18.0	48.8	17.9	261.9	276.8	232.4	265.9	347.8	357.0	382.6	193.8	22.1	2426.0
22	236	7.4	13.8	35.3	286.3	348.2	267.9	129.7	245.8	299.6	301.4	385.7	100.1	2421.0
22	237	80.2	7.6	76.1	208.4	288.7	252.3	381.2	479.8	268.8	540.5	576.0	385.8	3545.0
22	238	283.7	7.8	10.7	51.4	198.1	219.0	141.0	218.4	261.8	328.7	335.1	215.3	2271.0
22	239	102.2	60.0	110.3	103.4	276.8	426.3	339.3	273.6	252.6	281.4	415.5	158.0	2798.0
22	240	7.7	42.9	41.6	228.1	396.1	258.5	235.2	238.7	264.4	328.1	251.1	400.3	2693.0
22	241	49.5	30.6	31.9	142.8	253.2	300.0	361.7	329.5	266.0	375.1	336.5	568.1	3046.0
22	242	124.6	37.6	29.3	67.2	246.8	293.7	153.9	239.8	274.8	242.2	518.4	211.1	2440.0
22	243	84.5	32.3	8.4	132.9	318.6	387.2	283.0	221.4	317.8	334.3	404.0	252.1	2776.0
22	244	18.9	32.4	32.4	90.1	338.8	226.2	262.6	309.4	223.5	479.9	541.1	226.7	2782.0
22	245	57.9	26.5	93.1	205.4	196.5	267.3	274.9	341.8	391.2	415.3	262.8	74.9	2607.0
22	246	40.6	64.0	36.4	106.1	271.6	379.2	286.2	326.8	249.0	434.6	320.8	106.0	2622.0
22	247	64.1	18.4	35.5	66.4	246.0	259.1	353.1	475.9	359.3	476.7	375.6	111.5	2841.0
22	248	53.9	23.8	12.1	61.4	269.6	330.9	287.7	264.0	202.3	384.7	525.0	45.7	2462.0
22	249	48.3	6.4	44.0	26.0	292.6	286.6	250.5	304.3	263.2	279.8	225.5	69.6	2096.0
22	250	53.2	35.8	15.0	61.1	238.0	298.6	245.7	300.3	297.8	343.0	267.3	132.0	2288.0
22	251	14.5	47.1	14.3	92.0	218.7	290.6	290.9	212.1	308.3	302.6	449.7	45.0	2287.0
22	252	18.8	67.2	23.4	40.7	284.1	270.9	297.8	333.7	297.2	384.4	358.5	115.4	2492.0
22	253	193.2	45.8	17.4	132.7	288.0	367.3	258.9	233.8	261.9	418.4	476.1	239.5	2933.0
22	254	147.8	30.1	44.7	82.3	415.6	362.5	300.7	278.4	309.5	286.2	258.0	91.5	2606.0
22	255	87.5	34.3	16.7	117.2	342.6	321.9	276.0	337.6	260.3	275.3	243.2	169.8	2483.0
22	256	41.2	30.8	14.7	63.6	366.7	206.2	106.0	155.6	271.3	295.6	431.5	383.7	2368.0
22	257	61.8	2.3	10.4	32.8	244.3	252.6	271.5	317.4	269.2	484.8	368.2	251.3	2566.0
22	258	59.7	26.9	17.8	60.9	331.0	340.0	282.3	300.5	323.8	276.6	236.4	98.1	2354.0
22	259	107.8	11.8	17.7	27.6	199.4	249.0	367.4	370.6	221.1	275.0	449.8	262.0	2560.0
22	260	41.9	19.8	35.0	245.4	335.6	216.5	245.8	235.1	254.2	357.3	349.8	45.3	2382.0
22	261	9.1	31.8	31.4	126.7	307.4	234.0	252.8	290.8	284.5	275.1	339.5	224.3	2407.0
22	262	75.0	81.0	11.2	23.7	340.0	224.0	183.4	207.1	271.0	328.3	545.0	383.1	2672.0
22	263	191.5	24.3	27.2	18.7	272.1	381.2	320.3	236.8	331.4	369.2	377.4	620.4	3169.0
22	264	52.1	17.6	16.4	72.5	255.4	288.2	317.6	226.0	288.9	310.5	527.5	123.7	2497.0
22	265	65.0	16.5	7.0	44.4	218.5	321.0	246.2	423.2	339.9	359.9	381.7	87.3	2509.0
22	266	23.8	5.1	42.0	102.1	339.4	272.1	260.3	365.1	309.5	268.3	331.7	103.3	2421.0
22	267	7.0	38.6	96.5	68.8	229.1	312.3	417.9	359.3	370.0	253.5	192.7	82.1	2428.0
22	268	49.5	28.0	10.5	25.8	283.8	167.7	220.0	264.7	276.2	313.1	258.9	46.4	1946.0
22	269	79.0	45.4	13.3	158.1	201.6	305.5	202.4	318.6	305.5	482.2	342.7	285.6	2741.0
22	270	67.6	7.5	16.5	352.5	443.3	238.4	196.8	263.8	310.2	430.3	342.3	214.9	2882.0
22	271	21.7	34.9	78.3	38.8	172.9	254.7	139.3	302.2	367.6	276.5	530.3	477.8	2695.0
22	272	133.9	18.4	16.6	132.3	238.5	345.6	313.6	222.4	266.7	408.1	407.3	235.4	2739.0

22	273	26.4	21.8	6.5	17.9	220.6	201.1	232.9	233.0	262.5	505.3	569.3	244.5	2542.0
22	274	195.7	45.1	30.5	199.1	261.0	209.2	286.6	241.8	229.9	348.0	413.4	100.8	2562.0
22	275	39.6	2.7	5.0	43.3	327.0	348.1	357.1	248.3	218.5	329.7	270.5	148.0	2339.0
22	276	175.9	31.8	8.7	100.1	198.9	256.7	262.0	211.5	417.7	450.3	279.5	76.9	2471.0
22	277	113.7	30.5	13.7	27.7	220.0	361.9	249.4	314.1	233.9	340.9	484.2	240.9	2632.0
22	278	31.2	1.9	17.4	175.6	213.3	274.9	270.0	299.8	259.2	359.0	394.5	403.6	2700.0
22	279	171.1	83.7	232.4	229.2	310.0	409.4	371.5	246.4	271.7	339.7	429.5	371.7	3466.0
22	280	76.5	36.2	112.3	300.2	282.7	391.3	249.1	230.0	315.1	364.2	389.1	75.4	2820.0
22	281	15.8	25.8	9.0	45.1	303.5	208.8	329.3	324.2	377.2	330.2	169.9	116.9	2256.0
22	282	74.0	26.7	24.8	77.7	323.2	256.5	214.6	190.6	252.9	422.8	349.2	242.3	2456.0
22	283	32.9	22.6	15.8	19.9	225.3	281.9	236.4	296.5	361.6	424.0	224.7	163.0	2305.0
22	284	57.8	55.2	37.8	33.3	272.7	311.0	333.7	236.8	254.4	405.2	386.8	151.1	2536.0
22	285	65.5	31.9	6.6	125.7	331.7	233.1	371.5	369.4	354.2	285.6	370.2	116.1	2663.0
22	286	69.4	18.1	23.8	91.5	296.6	184.7	249.4	361.9	268.7	384.6	275.7	115.5	2341.0
22	287	125.8	17.5	10.7	72.8	266.6	363.7	180.4	343.6	220.9	431.8	224.0	184.2	2444.0
22	288	17.5	16.0	46.1	238.2	342.7	261.7	316.9	439.8	271.6	391.1	358.5	176.1	2876.0
22	289	29.0	20.7	5.4	65.8	194.5	352.4	166.5	232.1	205.8	325.7	235.1	196.4	2029.0
22	290	79.5	70.7	30.9	76.3	445.4	250.3	280.8	290.1	366.7	334.9	265.6	209.8	2701.0
22	291	46.6	18.7	19.9	143.7	393.3	190.1	262.1	250.3	321.8	614.9	268.7	82.1	2613.0
22	292	49.7	13.0	28.7	127.4	353.7	319.7	364.4	291.4	294.7	384.8	298.8	173.1	2700.0
22	293	53.0	23.8	15.2	48.2	172.2	329.9	205.1	276.6	342.1	322.1	587.3	423.4	2798.0
22	294	36.3	49.7	44.7	102.6	183.3	271.1	349.5	266.0	443.1	330.2	257.6	197.1	2532.0
22	295	43.1	19.7	17.8	52.3	253.6	299.8	165.5	200.3	279.3	391.6	344.7	76.6	2146.0
22	296	34.8	13.2	19.1	194.2	334.2	287.7	297.2	351.8	390.3	365.9	814.5	377.9	3480.0
22	297	17.1	52.4	40.1	167.5	302.7	271.7	318.4	315.6	354.6	331.5	286.7	359.7	2819.0
22	298	31.6	11.7	2.9	89.7	288.9	253.4	210.3	398.2	270.6	327.5	487.9	108.9	2482.0
22	299	57.5	10.4	3.0	26.4	267.6	215.5	164.8	279.6	436.4	301.8	305.6	210.1	2278.0
22	300	40.3	18.9	9.8	64.3	183.5	341.6	244.1	334.9	333.1	239.4	795.0	753.4	3357.0

G-08

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MAXIMUM VOLUMES FOR PERIOD 3 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	311.0	110.9	232.4	352.5	445.4	426.3	417.9	479.8	443.1	654.1	814.5	822.7	822.7	2699.8	13534.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	5.6	1.9	2.9	9.9	172.2	141.2	106.0	155.6	189.9	218.3	169.9	22.1	1.9	388.6	9677.
STA 22 MONTH 1 MEAN	69.89	VARIANCE	3409.12	STAN. DEV.	58.39										
STA 22 MONTH 2 MEAN	32.71	VARIANCE	466.18	STAN. DEV.	21.59										
STA 22 MONTH 3 MEAN	32.68	VARIANCE	1111.16	STAN. DEV.	33.33										
STA 22 MONTH 4 MEAN	104.21	VARIANCE	5644.39	STAN. DEV.	75.13										
STA 22 MONTH 5 MEAN	282.26	VARIANCE	4657.51	STAN. DEV.	68.25										
STA 22 MONTH 6 MEAN	271.93	VARIANCE	4384.98	STAN. DEV.	66.22										
STA 22 MONTH 7 MEAN	255.75	VARIANCE	5434.56	STAN. DEV.	73.72										
STA 22 MONTH 8 MEAN	281.35	VARIANCE	4516.19	STAN. DEV.	67.20										
STA 22 MONTH 9 MEAN	294.92	VARIANCE	3743.01	STAN. DEV.	61.18										
STA 22 MONTH 10 MEAN	359.40	VARIANCE	7825.99	STAN. DEV.	88.46										
STA 22 MONTH 11 MEAN	360.95	VARIANCE	15759.82	STAN. DEV.	125.54										
STA 22 MONTH 12 MEAN	200.27	VARIANCE	19511.01	STAN. DEV.	139.68										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 4

STA 22 MONTH 1 MEAN	0.013	STD DEVO	0.056
STA 22 MONTH 2 MEAN	0.001	STD DEVO	0.062
STA 22 MONTH 3 MEAN	-0.010	STD DEVO	0.064

STA	22	MONTH	4	MEAN	0.007	STD	DEVO	0.063
STA	22	MONTH	5	MEAN	-0.005	STD	DEVO	0.065
STA	22	MONTH	6	MEAN	-0.008	STD	DEVO	0.066
STA	22	MONTH	7	MEAN	-0.006	STD	DEVO	0.057
STA	22	MONTH	8	MEAN	-0.001	STD	DEVO	0.066
STA	22	MONTH	9	MEAN	0.001	STD	DEVO	0.068
STA	22	MONTH	10	MEAN	-0.001	STD	DEVO	0.063
STA	22	MONTH	11	MEAN	0.008	STD	DEVO	0.073
STA	22	MONTH	12	MEAN	0.005	STD	DEVO	0.065

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	301	21.4	8.6	8.0	34.8	418.3	216.6	263.7	285.5	372.2	289.4	419.5	117.8	2456.0
22	302	31.5	19.4	18.2	24.4	344.4	246.6	144.1	213.2	334.4	333.4	469.6	189.9	2367.0
22	303	23.8	48.8	46.9	92.8	458.9	177.6	293.7	359.0	376.2	442.3	281.6	43.4	2646.0
22	304	40.0	49.5	17.6	58.5	387.2	282.1	253.0	322.1	225.8	431.1	326.0	91.3	2484.0
22	305	164.1	59.9	16.4	194.8	351.0	353.5	270.5	239.7	214.9	232.6	491.9	180.2	2770.0
22	306	45.1	12.9	4.0	4.5	182.5	183.1	246.5	436.9	309.0	470.8	610.2	241.3	2747.0
22	307	28.2	16.7	47.0	91.7	367.5	268.0	174.5	243.0	259.5	273.6	221.5	55.4	2048.0
22	308	39.9	20.0	10.4	39.8	203.7	349.8	279.8	233.3	281.6	326.1	401.4	29.6	2216.0
22	309	54.4	98.1	226.0	51.9	253.7	409.5	276.4	281.5	305.8	344.3	476.4	256.4	3032.0
22	310	59.6	38.0	24.0	56.8	312.4	211.8	259.4	275.9	310.2	539.6	511.2	167.1	2766.0
22	311	34.7	16.5	26.5	78.2	237.1	242.9	237.0	346.8	299.4	243.5	314.8	133.0	2212.0
22	312	167.8	104.2	86.9	177.7	348.4	222.1	200.3	167.4	266.8	285.0	439.9	540.7	3007.0
22	313	320.1	11.4	17.4	103.6	315.2	188.1	224.5	266.4	282.1	278.5	277.1	452.9	2736.0
22	314	10.1	6.8	2.2	51.2	238.8	260.3	339.9	353.3	302.9	365.0	430.1	310.5	2671.0
22	315	28.0	13.5	26.3	50.3	349.8	212.4	243.9	447.5	335.0	427.3	358.2	141.9	2634.0
22	316	26.5	23.1	53.4	125.7	279.5	310.9	198.4	326.1	377.3	387.1	378.0	223.2	2708.0
22	317	17.2	48.7	55.7	107.6	215.4	323.9	294.2	358.7	231.3	312.2	411.7	257.9	2635.0
22	318	57.6	12.1	13.0	247.0	255.9	220.6	307.5	281.9	232.1	282.6	285.4	87.0	2284.0
22	319	47.9	19.9	15.5	50.2	304.1	258.2	388.7	368.5	369.6	467.6	345.0	38.4	2673.0
22	320	69.0	18.1	8.6	107.5	315.4	244.1	232.0	352.0	283.9	374.9	578.6	330.7	2915.0
22	321	73.3	61.8	66.2	78.8	205.3	257.2	254.8	185.1	252.2	459.6	492.7	291.3	2678.0
22	322	35.8	16.5	18.7	64.9	282.0	258.2	279.1	262.2	338.7	291.8	233.4	199.7	2281.0
22	323	34.0	56.6	13.3	197.7	234.2	142.9	183.7	271.9	278.4	448.7	348.1	238.7	2449.0
22	324	115.8	45.5	41.9	180.7	280.9	249.6	349.0	278.5	353.3	255.0	372.2	95.6	2619.0
22	325	9.2	17.8	13.3	81.9	227.3	241.3	167.1	281.2	318.6	326.4	332.9	241.3	2257.0
22	326	127.3	53.1	47.3	123.8	282.2	229.7	164.8	249.4	234.0	398.8	377.3	494.5	2782.0
22	327	208.5	20.4	52.9	111.1	265.1	229.7	332.2	332.8	294.7	257.0	307.9	97.2	2510.0
22	328	181.5	80.5	41.1	365.7	324.0	385.0	348.8	330.6	292.7	319.6	383.4	270.6	3326.0
22	329	115.9	9.5	4.9	37.4	326.2	243.8	251.7	320.1	368.9	418.1	161.0	105.5	2363.0
22	330	26.5	5.8	17.5	60.2	280.6	283.1	335.4	332.1	308.2	390.9	297.8	298.5	2636.0
22	331	274.6	26.1	23.0	49.1	267.6	337.2	285.4	303.4	340.4	387.4	356.6	345.9	2996.0
22	332	44.2	100.9	86.5	47.9	346.7	303.0	288.1	241.3	225.5	319.4	386.2	212.2	2602.0
22	333	40.9	31.2	39.2	502.3	310.7	284.7	311.8	243.4	350.4	418.6	268.8	42.8	2845.0
22	334	47.3	41.5	45.8	159.1	307.0	222.1	252.8	146.5	319.7	305.3	521.8	117.4	2486.0
22	335	45.1	12.6	66.4	19.4	213.0	230.7	206.4	349.1	360.0	406.1	360.6	62.2	2331.0
22	336	35.1	3.0	35.3	180.8	253.2	260.9	300.2	230.2	308.0	382.1	385.0	223.0	2596.0
22	337	107.9	12.4	25.5	115.7	239.9	215.3	222.1	423.3	354.2	305.2	776.8	325.3	3122.0
22	338	72.3	38.8	41.3	69.5	336.5	366.3	364.9	309.6	370.8	597.3	237.9	267.0	3072.0
22	339	155.5	70.2	4.5	52.0	164.6	332.5	308.5	244.1	377.3	320.8	852.6	567.6	3450.0
22	340	72.4	41.3	22.0	362.5	292.2	279.3	346.2	335.2	316.6	312.7	276.6	146.2	2802.0
22	341	9.2	20.2	17.7	137.9	257.9	299.8	321.3	234.5	348.1	309.4	268.1	498.6	2722.0
22	342	84.2	31.7	66.6	94.8	197.7	177.9	249.6	331.2	309.0	342.5	250.1	83.0	2220.0
22	343	15.9	8.3	20.5	68.5	256.5	371.6	268.1	327.3	330.8	338.0	396.7	43.0	2446.0

22	344	60.6	55.0	36.8	110.3	361.0	267.1	192.3	251.1	261.1	321.8	225.6	161.2	2304.0
22	345	64.7	32.1	16.0	73.6	284.5	305.7	163.4	278.2	277.8	490.9	491.3	325.2	2803.0
22	346	66.2	17.2	37.3	227.2	242.0	297.9	351.0	221.5	180.3	250.0	388.4	111.7	2390.0
22	347	57.1	11.2	37.2	138.9	364.9	257.9	374.2	295.9	346.3	494.4	429.6	290.8	3098.0
22	348	10.7	30.9	46.6	61.9	360.1	274.1	352.2	311.1	253.6	523.2	232.2	103.4	2560.0
22	349	126.0	11.9	16.1	57.4	249.8	303.3	196.3	355.1	286.1	314.4	334.4	56.6	2306.0
22	350	105.8	23.0	13.1	92.1	316.9	333.6	187.1	324.3	279.5	402.0	262.0	86.2	2426.0
22	351	74.8	16.2	27.2	146.4	246.6	263.7	165.3	216.3	287.9	310.3	402.8	47.9	2205.0
22	352	23.1	26.8	18.7	110.9	169.7	455.2	335.0	351.9	312.7	358.6	252.1	116.4	2532.0
22	353	20.7	22.3	63.4	48.9	257.8	354.4	368.2	315.1	231.9	427.1	194.6	324.8	2629.0
22	354	20.3	46.3	10.9	25.7	305.7	245.2	216.5	313.4	285.7	476.3	284.7	195.7	2427.0
22	355	24.8	41.2	31.5	87.5	329.9	452.0	378.0	261.7	249.9	434.2	437.2	297.9	3026.0
22	356	64.6	10.9	3.8	41.7	303.9	241.5	200.3	277.9	196.3	275.1	474.4	305.0	2396.0
22	357	32.9	2.5	12.4	66.5	261.4	314.5	231.6	285.8	220.5	338.5	330.7	124.5	2219.0
22	358	29.4	32.8	13.2	21.0	194.6	202.0	125.6	199.6	336.2	376.1	447.5	182.1	2161.0
22	359	128.0	33.5	53.1	64.4	300.4	233.7	274.1	311.6	235.3	381.7	507.8	142.7	2666.0
22	360	6.9	16.7	4.2	85.1	317.3	365.3	264.6	246.1	254.8	350.6	219.4	170.2	2301.0
22	361	84.3	43.2	10.2	205.1	353.0	244.6	138.5	241.2	319.0	264.6	290.7	29.3	2224.0
22	362	7.9	8.5	20.6	52.5	335.2	270.3	410.1	273.2	302.7	251.9	284.9	170.9	2389.0
22	363	28.0	13.5	14.8	76.5	438.3	372.1	197.2	272.6	262.8	319.8	645.1	764.3	3406.0
22	364	108.7	54.3	64.9	102.4	285.9	299.2	270.3	295.8	336.7	230.5	520.7	325.2	2894.0
22	365	82.2	21.7	7.1	63.4	307.7	238.0	446.6	270.6	212.2	373.6	197.3	190.5	2411.0
22	366	61.7	39.4	81.2	148.4	306.8	262.0	278.3	220.0	313.9	324.8	386.0	120.5	2543.0
22	367	80.4	86.5	22.6	57.1	251.6	224.2	239.7	228.4	373.1	376.7	208.4	140.8	2289.0
22	368	115.5	10.6	3.0	17.9	262.4	280.2	280.2	256.0	317.9	438.0	443.9	254.2	2679.0
22	369	59.0	126.9	74.1	61.5	222.0	199.7	164.4	294.5	302.0	445.9	289.0	291.6	2531.0
22	370	67.6	55.4	6.8	102.5	331.2	295.1	338.7	315.2	353.3	310.1	437.1	212.6	2825.0
22	371	186.4	31.0	48.7	341.2	377.1	359.2	168.8	232.0	313.7	286.2	416.4	407.9	3168.0
22	372	91.0	47.0	14.3	51.7	187.5	295.4	229.7	225.4	373.9	289.1	284.7	153.2	2243.0
22	373	41.1	33.8	28.9	56.0	170.4	257.3	359.3	307.3	431.7	340.3	400.3	111.9	2537.0
22	374	18.2	7.6	39.6	70.4	254.2	285.2	243.7	345.7	300.9	519.0	208.9	182.5	2477.0
22	375	111.0	15.2	17.0	73.9	262.4	269.9	143.0	183.9	191.9	333.2	245.9	149.4	1996.0
22	376	14.5	48.6	39.3	98.6	288.4	387.9	355.8	335.4	292.8	380.5	303.1	33.7	2579.0
22	377	6.3	79.9	74.2	270.7	311.3	348.7	247.0	316.3	330.9	241.0	412.5	223.9	2862.0
22	378	252.1	22.0	19.4	186.0	223.8	376.2	229.3	328.0	362.2	330.2	401.0	120.6	2850.0
22	379	23.0	31.8	23.5	56.1	237.1	294.7	310.7	338.9	382.1	309.4	571.8	283.9	2864.0
22	380	58.6	23.0	21.6	78.3	310.1	280.9	255.3	339.2	337.7	413.0	264.8	105.2	2488.0
22	381	69.6	45.2	49.0	135.5	199.8	208.5	178.0	350.6	320.1	337.8	384.2	145.7	2425.0
22	382	30.0	17.9	66.7	159.6	306.5	234.6	350.6	352.9	365.7	347.6	255.2	93.6	2584.0
22	383	46.2	24.3	25.9	121.2	256.2	198.7	215.5	246.7	222.0	286.2	613.7	89.1	2345.0
22	384	19.0	16.8	25.8	49.4	283.0	214.2	226.2	219.4	311.3	352.2	278.8	100.8	2096.0
22	385	13.0	37.8	89.3	67.7	263.2	260.0	160.5	234.5	278.5	457.0	290.1	294.4	2445.0
22	386	74.0	25.1	18.0	27.0	139.6	289.3	139.3	211.3	340.2	518.6	614.8	349.4	2746.0
22	387	16.6	72.5	19.3	81.7	285.3	232.7	330.2	214.9	250.3	301.8	357.6	66.2	2229.0
22	388	86.9	12.2	23.5	206.7	323.2	240.6	187.6	300.5	284.9	304.9	353.4	241.2	2567.0
22	389	87.5	25.2	26.4	26.8	384.6	358.6	255.6	203.1	244.0	440.5	390.0	165.5	2607.0
22	390	61.6	27.7	28.4	18.4	248.1	269.6	226.2	300.3	233.3	318.3	481.6	603.1	2816.0
22	391	44.8	38.4	15.1	83.9	321.8	239.2	255.3	263.8	188.1	409.0	383.9	80.7	2324.0
22	392	83.0	22.6	8.1	36.6	294.7	177.3	301.4	180.4	241.1	364.8	242.1	329.4	2281.0
22	393	72.4	37.9	7.7	33.5	201.1	359.7	160.9	236.5	244.7	329.7	337.5	270.3	2292.0
22	394	127.0	23.5	22.4	72.8	280.2	374.5	198.4	248.6	348.1	357.0	304.4	333.6	2691.0
22	395	33.7	64.6	57.7	312.5	423.9	257.3	170.8	244.7	359.4	405.2	323.0	367.3	3020.0
22	396	63.3	6.0	11.5	174.7	228.4	254.1	232.9	253.3	333.8	289.3	203.7	48.1	2098.0
22	397	100.1	40.0	29.7	176.3	343.9	249.6	219.0	297.4	280.3	646.9	223.3	137.5	2743.0

22	398	50.3	45.2	9.6	44.9	258.3	229.1	294.0	379.9	225.9	248.0	397.2	167.1	2349.0
22	399	188.5	29.1	19.2	115.4	257.7	182.4	227.9	270.8	249.5	453.5	275.1	240.5	2509.0
22	400	152.1	45.9	43.8	51.5	239.6	318.7	259.3	279.4	287.5	300.7	330.3	98.5	2407.0

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MAXIMUM VOLUMES FOR PERIOD 4 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	320.1	126.9	226.0	502.3	458.9	455.2	446.6	447.5	431.7	646.9	852.6	764.3	852.6	2670.9	14455.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	6.3	2.5	2.2	4.5	139.6	142.9	125.6	146.5	180.3	230.5	161.0	29.3	2.2	369.2	9896.
STA 22 MONTH 1 MEAN	69.01	VARIANCE	3519.56	STAN. DEV.	59.33										
STA 22 MONTH 2 MEAN	32.94	VARIANCE	591.80	STAN. DEV.	24.33										
STA 22 MONTH 3 MEAN	31.62	VARIANCE	852.69	STAN. DEV.	29.20										
STA 22 MONTH 4 MEAN	104.85	VARIANCE	7245.28	STAN. DEV.	85.12										
STA 22 MONTH 5 MEAN	281.73	VARIANCE	4615.12	STAN. DEV.	67.93										
STA 22 MONTH 6 MEAN	272.22	VARIANCE	4593.14	STAN. DEV.	67.77										
STA 22 MONTH 7 MEAN	255.33	VARIANCE	5541.29	STAN. DEV.	74.44										
STA 22 MONTH 8 MEAN	281.67	VARIANCE	4131.60	STAN. DEV.	64.28										
STA 22 MONTH 9 MEAN	295.49	VARIANCE	3684.05	STAN. DEV.	60.70										
STA 22 MONTH 10 MEAN	358.89	VARIANCE	8040.28	STAN. DEV.	89.67										
STA 22 MONTH 11 MEAN	365.10	VARIANCE	16744.20	STAN. DEV.	129.40										
STA 22 MONTH 12 MEAN	205.94	VARIANCE	19238.03	STAN. DEV.	138.70										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 5

STA 22 MONTH 1	MEAN-0.002	STD DEVO.060
STA 22 MONTH 2	MEAN-0.005	STD DEVO.062
STA 22 MONTH 3	MEAN-0.005	STD DEVO.061
STA 22 MONTH 4	MEAN 0.002	STD DEVO.067
STA 22 MONTH 5	MEAN 0.004	STD DEVO.064
STA 22 MONTH 6	MEAN 0.005	STD DEVO.058
STA 22 MONTH 7	MEAN 0.001	STD DEVO.069
STA 22 MONTH 8	MEAN-0.001	STD DEVO.067
STA 22 MONTH 9	MEAN 0.000	STD DEVO.059
STA 22 MONTH 10	MEAN 0.009	STD DEVO.068
STA 22 MONTH 11	MEAN-0.002	STD DEVO.061
STA 22 MONTH 12	MEAN 0.006	STD DEVO.055

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	401	120.1	22.7	11.5	139.7	277.8	215.0	219.8	339.7	301.8	329.3	513.4	219.3	2711.0
22	402	88.7	42.4	3.6	56.7	378.2	312.2	232.2	329.8	312.9	299.5	232.7	68.2	2358.0
22	403	102.9	21.9	76.9	83.3	242.4	284.5	317.7	352.2	325.9	240.3	211.6	35.8	2296.0
22	404	27.4	42.1	93.4	178.5	293.5	158.2	208.5	273.7	259.3	361.0	258.7	218.9	2372.0
22	405	14.8	80.1	68.9	98.6	266.2	409.6	418.9	265.5	408.9	518.5	413.0	560.8	3525.0
22	406	15.8	16.8	13.7	25.6	212.6	174.2	175.6	233.6	280.3	333.6	393.0	295.3	2172.0
22	407	136.0	93.7	31.5	84.5	427.5	322.8	231.2	230.3	239.3	374.7	305.4	29.3	2506.0
22	408	86.2	43.7	69.5	265.2	291.9	250.4	197.4	238.1	280.2	277.0	662.7	198.9	2860.0
22	409	69.1	37.3	40.8	62.0	306.8	372.3	294.6	249.4	316.3	341.2	714.2	372.4	3175.0
22	410	86.1	34.3	18.6	56.0	298.9	174.4	199.4	248.2	200.2	422.1	318.3	218.8	2274.0
22	411	67.3	12.1	33.7	129.7	402.3	272.7	171.0	286.9	287.0	378.4	388.8	69.1	2499.0
22	412	66.5	36.8	25.0	160.3	246.5	283.1	279.4	209.4	376.4	487.4	317.5	156.2	2643.0
22	413	53.5	85.9	66.6	26.4	262.1	285.2	310.1	395.9	348.4	294.7	274.5	142.8	2545.0
22	414	141.9	38.6	29.3	77.9	385.0	276.7	291.1	233.0	353.1	337.4	286.3	195.5	2646.0

22	415	38.2	41.7	18.9	55.7	264.2	371.9	416.7	369.6	382.8	380.1	270.6	159.5	2772.0
22	416	48.9	16.9	15.9	74.4	339.6	286.0	224.0	186.6	318.9	461.1	169.5	119.3	2261.0
22	417	11.5	52.1	8.4	99.4	301.5	258.7	271.7	244.7	238.6	253.2	291.6	190.5	2222.0
22	418	79.2	19.8	16.0	48.8	301.6	252.0	267.0	278.3	294.1	290.2	347.5	63.1	2257.0
22	419	101.2	18.3	23.6	36.5	289.4	296.4	161.8	276.1	260.2	399.8	180.5	55.4	2099.0
22	420	136.9	26.3	11.0	88.5	283.6	308.0	301.5	281.7	324.2	357.1	282.2	446.5	2847.0
22	421	102.2	21.8	35.4	94.0	377.8	253.3	187.3	234.4	342.9	437.3	347.6	350.1	2783.0
22	422	64.4	48.3	23.5	304.9	400.1	294.2	239.5	287.0	246.3	276.5	303.3	271.6	2758.0
22	423	76.1	21.7	31.2	165.3	346.5	276.7	304.0	245.1	234.5	264.8	414.8	161.4	2542.0
22	424	68.0	19.6	16.7	203.6	228.5	146.6	95.8	231.9	251.5	387.3	481.7	191.2	2323.0
22	425	4.3	17.6	9.3	53.3	256.9	285.3	286.3	252.0	381.2	375.5	402.4	187.5	2511.0
22	426	57.0	23.1	16.3	147.1	361.5	279.5	265.0	305.7	238.0	260.5	327.2	330.9	2611.0
22	427	25.6	24.8	8.1	26.2	243.6	392.0	335.5	211.9	232.8	393.2	378.9	131.4	2404.0
22	428	40.2	40.8	76.6	158.2	235.6	269.0	194.3	228.6	302.0	347.4	200.8	32.6	2127.0
22	429	62.3	35.7	35.4	117.6	249.7	271.6	259.1	264.2	234.9	327.3	401.0	232.6	2492.0
22	430	184.8	14.4	6.4	157.1	243.7	210.5	160.0	240.1	280.1	461.0	427.9	426.9	2812.0
22	431	51.9	33.0	5.9	76.8	386.5	310.1	189.3	303.9	313.9	367.3	716.8	184.2	2939.0
22	432	37.5	22.5	19.4	62.6	295.2	324.8	178.7	258.9	266.4	446.8	245.5	166.5	2325.0
22	433	32.2	10.9	11.3	35.7	318.2	248.6	379.5	339.6	309.8	368.9	244.8	77.8	2378.0
22	434	9.2	51.2	30.3	163.4	296.1	271.0	332.4	298.5	230.0	321.3	282.2	29.0	2313.0
22	435	78.1	85.8	20.8	44.2	313.3	443.7	321.5	368.7	217.1	227.0	340.0	195.4	2655.0
22	436	62.8	15.0	7.1	87.3	171.7	256.6	233.2	253.5	268.7	280.7	233.6	239.2	2110.0
22	437	100.3	17.5	42.0	27.6	299.8	212.7	287.3	288.9	381.6	357.7	448.3	215.6	2680.0
22	438	15.2	23.9	117.1	373.3	277.8	219.9	229.5	287.1	352.9	351.9	385.5	82.2	2716.0
22	439	73.2	74.0	12.0	16.0	243.5	167.3	273.6	359.4	239.8	439.6	502.0	335.4	2736.0
22	440	38.6	22.5	36.0	50.0	346.6	309.1	172.6	237.2	336.6	392.1	371.3	90.9	2405.0
22	441	44.0	10.0	5.0	36.5	197.8	259.8	192.6	236.0	389.8	508.9	322.2	410.4	2613.0
22	442	97.3	34.4	58.0	68.7	214.6	311.3	201.9	208.0	294.0	386.4	250.4	118.4	2242.0
22	443	4.9	9.4	11.2	139.8	368.0	356.8	203.3	198.1	279.3	290.6	364.6	464.5	2690.0
22	444	72.4	12.8	25.2	26.0	251.3	274.9	162.7	407.6	368.2	309.9	268.4	316.0	2495.0
22	445	66.9	18.5	7.7	36.7	356.3	245.2	279.4	218.3	289.7	428.3	347.8	97.8	2393.0
22	446	3.2	26.8	51.7	34.5	273.2	279.0	266.7	240.3	304.3	376.5	517.7	434.1	2809.0
22	447	195.7	171.2	80.6	125.5	421.3	362.0	199.1	244.6	289.6	395.0	471.4	225.7	3182.0
22	448	78.3	98.0	106.4	92.4	399.1	241.3	182.3	285.6	309.6	374.0	229.4	53.1	2448.0
22	449	50.6	13.0	11.5	109.5	221.0	358.6	293.9	374.6	287.7	217.7	423.1	285.9	2649.0
22	450	61.8	30.9	21.4	137.4	276.3	231.9	137.0	221.0	344.5	355.5	406.8	117.4	2340.0
22	451	46.9	21.2	5.9	39.9	282.1	246.4	263.7	350.1	351.8	267.1	419.3	215.3	2509.0
22	452	127.1	40.7	9.7	77.9	321.4	337.5	191.1	228.1	334.4	378.3	306.3	190.5	2542.0
22	453	67.3	9.9	31.2	147.3	252.5	402.9	335.2	351.0	248.5	348.6	280.8	200.4	2675.0
22	454	37.2	30.1	25.2	104.0	193.3	280.5	333.7	256.6	323.4	300.7	321.2	353.2	2558.0
22	455	38.1	15.9	18.9	71.9	369.4	187.3	311.0	209.7	350.3	267.0	446.5	82.9	2369.0
22	456	33.8	52.0	76.2	170.0	286.0	330.7	392.5	265.5	328.5	358.0	341.9	101.2	2737.0
22	457	42.2	8.7	16.0	23.6	341.1	177.2	187.7	186.5	275.3	265.4	452.8	275.7	2253.0
22	458	166.4	34.0	20.7	372.3	291.0	296.1	257.0	355.6	290.6	288.2	437.8	173.7	2984.0
22	459	40.2	26.2	40.0	256.8	214.2	292.2	213.9	297.5	438.9	313.7	279.0	166.6	2580.0
22	460	26.8	36.0	36.4	185.2	346.9	371.7	253.8	273.4	323.8	316.8	371.7	179.8	2723.0
22	461	50.9	20.5	12.9	15.4	314.7	211.4	240.5	323.4	279.1	483.9	439.7	109.9	2502.0
22	462	103.8	46.1	28.9	19.9	262.3	364.1	226.8	458.5	289.7	282.2	431.0	164.5	2678.0
22	463	42.5	23.8	14.2	60.9	306.2	183.1	149.1	246.4	326.3	348.7	243.4	111.8	2056.0
22	464	26.1	25.7	56.0	154.5	311.0	304.1	318.5	395.9	315.6	620.7	352.6	48.1	2930.0
22	465	103.6	41.5	48.2	112.3	288.6	329.7	282.6	344.1	287.7	302.2	572.7	129.6	2845.0
22	466	24.5	5.4	21.3	92.8	266.2	228.5	363.1	261.4	281.7	427.8	240.5	152.8	2365.0
22	467	19.8	5.6	6.7	70.7	221.7	195.5	249.6	453.1	265.7	310.7	407.8	146.1	2356.0
22	468	39.8	14.5	16.5	19.4	328.5	243.4	301.3	320.9	200.3	561.8	580.6	75.1	2702.0

22	469	13.5	9.5	10.0	279.5	233.1	278.6	264.4	372.9	248.8	390.0	265.8	108.5	2474.0
22	470	36.1	19.7	7.4	151.9	254.3	177.9	175.2	312.0	284.0	434.7	313.8	84.4	2251.0
22	471	104.4	44.7	31.6	378.9	194.1	316.5	342.9	390.9	361.2	309.7	217.0	146.4	2839.0
22	472	110.6	17.8	17.4	221.5	299.1	255.6	302.0	214.1	346.9	343.2	268.4	438.1	2835.0
22	473	143.7	16.3	69.5	164.6	363.5	257.2	203.4	195.7	183.9	421.4	301.8	143.2	2463.0
22	474	22.6	4.5	1.4	16.3	159.0	271.5	408.4	312.8	374.5	564.2	309.0	87.8	2532.0
22	475	29.3	48.6	32.1	192.6	281.6	197.5	212.6	237.5	228.5	244.5	274.8	169.3	2150.0
22	476	40.6	11.6	11.5	25.5	327.0	264.5	195.1	257.0	275.9	384.6	161.7	157.3	2114.0
22	477	233.8	181.6	19.6	58.1	393.5	253.3	252.3	289.2	292.0	441.8	365.6	187.1	2968.0
22	478	80.7	24.4	17.5	111.9	211.9	275.7	253.3	294.8	405.9	500.6	278.7	109.6	2567.0
22	479	29.4	28.7	25.6	44.8	231.7	249.7	328.9	291.6	200.5	307.1	329.3	466.9	2536.0
22	480	274.2	75.0	70.8	164.4	229.4	225.4	113.5	232.6	238.5	402.6	626.4	746.0	3397.0
22	481	22.3	20.3	34.4	116.3	186.4	252.5	243.9	263.5	234.6	286.5	731.0	60.5	2452.0
22	482	11.3	2.7	13.4	43.8	249.0	335.8	332.2	295.7	308.1	412.7	431.6	106.5	2544.0
22	483	24.2	29.1	16.1	162.2	218.5	262.7	414.8	345.8	351.4	368.3	311.4	102.1	2605.0
22	484	45.1	53.8	46.4	79.7	308.5	208.4	306.3	386.2	326.6	378.0	382.4	72.3	2593.0
22	485	106.2	52.6	38.0	32.6	306.7	280.9	335.9	222.1	263.5	389.1	398.1	194.1	2621.0
22	486	21.8	14.9	96.9	58.7	212.2	315.6	259.0	216.2	236.3	293.1	286.0	179.6	2191.0
22	487	39.7	17.1	15.1	101.9	259.7	387.5	345.5	381.3	374.8	362.6	187.5	206.5	2680.0
22	488	34.3	9.5	33.0	114.9	246.9	245.8	334.1	275.2	314.3	520.9	382.4	209.7	2721.0
22	489	140.2	60.4	27.1	27.4	239.8	261.0	135.1	221.8	362.3	474.4	383.6	121.7	2454.0
22	490	30.1	20.6	20.2	79.9	255.7	281.4	234.4	325.3	249.3	255.9	482.6	161.1	2396.0
22	491	136.7	13.5	69.8	42.8	125.5	230.9	254.1	261.1	359.2	362.7	414.3	353.0	2623.0
22	492	105.1	41.3	69.3	81.0	247.1	347.7	252.9	346.0	214.1	349.3	259.0	39.0	2351.0
22	493	31.9	14.6	25.2	38.1	228.0	195.7	260.3	305.2	278.6	335.0	431.6	387.9	2533.0
22	494	126.9	45.7	44.2	81.8	226.4	196.2	222.3	214.7	326.6	378.6	635.2	561.9	3061.0
22	495	43.4	55.0	40.6	66.8	223.6	336.4	313.5	284.5	214.4	305.0	288.5	487.7	2660.0
22	496	204.1	38.6	165.5	130.4	387.6	319.1	305.1	280.9	272.2	370.6	425.6	346.6	3248.0
22	497	17.1	5.9	10.3	126.0	248.1	261.9	301.5	374.0	346.1	207.9	437.8	150.1	2486.0
22	498	10.2	21.6	19.2	78.9	280.8	326.4	310.5	299.1	326.0	317.0	520.8	703.7	3214.0
22	499	59.0	24.9	15.3	66.9	330.6	271.6	279.2	333.3	324.8	361.8	513.3	171.2	2752.0
22	500	256.0	74.4	16.2	159.0	313.6	280.3	206.7	205.3	267.9	372.3	369.7	148.0	2669.0

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MAXIMUM VOLUMES FOR PERIOD 5 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	274.2	181.6	165.5	378.9	427.5	443.7	418.9	458.5	438.9	620.7	731.0	746.0	746.0	2585.6	13946.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	3.2	2.7	1.4	15.4	125.5	146.6	95.8	186.5	183.9	207.9	161.7	29.0	1.4	347.0	9533.
STA 22 MONTH 1 MEAN	67.16	VARIANCE	2738.91	STAN. DEV.	52.33										
STA 22 MONTH 2 MEAN	33.15	VARIANCE	837.97	STAN. DEV.	28.95										
STA 22 MONTH 3 MEAN	32.15	VARIANCE	802.50	STAN. DEV.	28.33										
STA 22 MONTH 4 MEAN	103.54	VARIANCE	6236.34	STAN. DEV.	78.97										
STA 22 MONTH 5 MEAN	281.00	VARIANCE	4621.89	STAN. DEV.	67.98										
STA 22 MONTH 6 MEAN	272.51	VARIANCE	4351.48	STAN. DEV.	65.97										
STA 22 MONTH 7 MEAN	255.96	VARIANCE	5433.45	STAN. DEV.	73.71										
STA 22 MONTH 8 MEAN	282.65	VARIANCE	4458.87	STAN. DEV.	66.77										
STA 22 MONTH 9 MEAN	295.62	VARIANCE	3718.33	STAN. DEV.	60.98										
STA 22 MONTH 10 MEAN	357.79	VARIANCE	7581.94	STAN. DEV.	87.07										
STA 22 MONTH 11 MEAN	364.30	VARIANCE	15946.77	STAN. DEV.	126.28										
STA 22 MONTH 12 MEAN	206.08	VARIANCE	21293.67	STAN. DEV.	145.92										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 6

STA	22	MONTH	1	MEAN	0.003	STD	DEVO	0.055
		MONTH	2	MEAN	-0.010	STD	DEVO	0.059
		MONTH	3	MEAN	0.008	STD	DEVO	0.062
		MONTH	4	MEAN	0.000	STD	DEVO	0.065
		MONTH	5	MEAN	0.002	STD	DEVO	0.065
		MONTH	6	MEAN	-0.009	STD	DEVO	0.062
		MONTH	7	MEAN	-0.011	STD	DEVO	0.060
		MONTH	8	MEAN	-0.002	STD	DEVO	0.067
		MONTH	9	MEAN	0.003	STD	DEVO	0.062
		MONTH	10	MEAN	0.000	STD	DEVO	0.073
		MONTH	11	MEAN	0.004	STD	DEVO	0.062
		MONTH	12	MEAN	0.009	STD	DEVO	0.055

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	501	61.6	42.9	223.4	118.4	291.5	317.8	215.8	337.4	338.8	308.5	215.8	165.3	2636.0
22	502	89.6	48.7	49.9	111.2	225.5	282.1	75.6	281.9	258.0	467.4	231.4	127.5	2249.0
22	503	17.9	75.0	5.8	30.1	217.4	243.3	358.2	368.1	333.2	376.3	212.8	114.9	2352.0
22	504	2.5	45.9	60.8	57.8	256.3	312.5	197.4	286.2	314.6	390.4	366.1	312.3	2603.0
22	505	19.4	30.7	33.6	46.7	206.7	258.8	430.6	370.1	262.8	623.1	318.6	178.8	2782.0
22	506	76.5	43.8	19.1	149.1	374.1	349.9	301.7	374.6	422.1	295.7	532.7	495.2	3435.0
22	507	191.7	4.3	11.4	10.5	302.9	305.0	214.8	372.0	274.3	673.0	436.1	183.8	2980.0
22	508	83.7	23.4	135.6	94.0	282.1	349.6	336.5	310.8	266.5	302.7	356.6	45.5	2590.0
22	509	35.0	20.3	39.3	59.9	295.3	322.6	201.8	332.7	264.0	296.1	766.6	322.8	2957.0
22	510	70.0	72.2	28.7	23.3	160.4	290.0	339.7	302.8	289.0	286.5	291.3	72.7	2226.0
22	511	11.1	25.4	18.5	58.5	361.8	267.1	325.5	326.3	286.5	391.8	179.0	170.7	2421.0
22	512	122.4	38.1	31.3	188.6	281.9	226.7	230.8	241.6	270.4	265.3	422.7	256.1	2576.0
22	513	69.6	17.9	18.9	83.2	306.1	199.4	268.1	261.6	373.6	480.9	395.8	197.6	2674.0
22	514	28.4	42.9	78.4	49.1	290.5	349.7	181.9	166.4	203.3	367.9	263.5	177.6	2198.0
22	515	16.3	44.2	43.0	197.5	273.2	382.5	288.4	341.3	378.5	437.2	397.9	43.0	2843.0
22	516	57.9	50.2	17.2	186.8	289.0	356.8	307.7	240.7	387.4	286.5	331.1	401.7	2913.0
22	517	19.8	19.8	14.9	52.8	296.7	223.6	361.6	279.2	266.8	344.5	214.9	294.9	2391.0
22	518	42.5	14.9	23.9	120.5	339.4	213.0	325.5	268.7	326.9	301.5	287.1	254.6	2519.0
22	519	28.1	32.1	44.3	51.7	257.5	206.7	179.5	263.2	262.0	390.7	184.9	74.2	1975.0
22	520	47.3	20.7	30.2	12.6	409.5	308.3	349.0	307.1	300.6	289.7	336.3	93.4	2505.0
22	521	41.0	69.8	14.1	60.3	346.7	354.8	308.7	219.9	339.0	249.0	695.6	117.5	2818.0
22	522	111.0	11.6	6.1	104.1	248.8	248.7	315.4	274.5	367.4	325.8	402.4	106.6	2522.0
22	523	89.6	34.0	24.1	139.4	447.3	348.1	234.7	230.6	343.1	434.6	401.1	201.9	2929.0
22	524	16.0	4.4	9.4	101.6	244.5	237.0	269.6	185.8	228.6	429.3	394.4	112.2	2233.0
22	525	1.9	16.7	17.6	62.3	309.9	248.1	276.1	207.2	281.5	345.2	298.4	110.2	2175.0
22	526	65.2	14.4	5.1	20.5	184.1	186.3	157.5	313.4	311.6	433.1	304.4	331.7	2327.0
22	527	68.3	57.1	18.2	102.2	236.5	296.9	312.2	223.7	312.1	474.7	254.3	23.8	2380.0
22	528	24.6	4.5	19.9	118.7	368.6	265.6	217.8	234.0	291.3	263.3	441.4	318.2	2569.0
22	529	102.7	11.0	60.3	173.8	256.7	190.0	218.7	301.1	223.6	305.5	184.8	33.0	2063.0
22	530	10.6	25.1	13.9	146.1	280.5	417.7	256.4	286.6	210.8	299.2	381.6	118.4	2448.0
22	531	21.6	17.7	20.0	346.7	399.0	215.8	257.0	245.3	269.2	548.2	638.8	294.9	3275.0
22	532	125.6	66.2	30.4	87.0	300.5	280.5	289.0	329.5	190.0	444.6	392.3	234.2	2770.0
22	533	38.6	7.9	15.0	107.3	241.7	471.7	253.4	198.2	305.2	247.4	501.2	265.5	2653.0
22	534	92.4	85.2	48.7	112.2	267.5	294.3	182.5	290.9	274.5	382.1	271.3	235.7	2537.0
22	535	224.1	22.6	14.3	53.8	217.6	270.8	197.8	364.5	313.9	257.0	412.6	404.0	2754.0
22	536	17.6	3.4	4.0	60.0	276.0	291.8	234.9	301.3	348.3	440.1	363.1	183.2	2523.0
22	537	343.7	69.1	17.1	35.1	187.2	217.1	295.1	290.4	352.5	326.6	501.7	248.9	2884.0
22	538	135.7	6.9	24.9	137.9	304.5	339.5	312.2	353.0	265.7	413.9	335.4	452.9	3082.0
22	539	63.4	53.2	134.9	222.9	376.3	197.1	199.7	292.7	243.0	394.9	508.4	282.1	2968.0

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22	540	107.8	15.3	12.6	18.1	274.9	249.3	190.3	364.2	247.8	305.3	359.7	160.2	2305.0
22	541	70.6	31.9	14.8	12.7	234.6	366.5	303.3	467.8	292.1	395.0	257.4	65.0	2512.0
22	542	9.2	48.0	20.2	57.4	280.4	262.0	350.8	294.5	388.2	266.7	467.7	397.5	2842.0
22	543	27.9	20.5	19.5	63.1	266.5	189.3	130.4	172.1	274.8	281.9	385.7	72.2	1905.0
22	544	110.6	41.5	27.9	88.8	383.5	337.5	332.2	283.1	314.1	330.7	187.6	26.3	2464.0
22	545	189.6	71.5	100.1	118.0	353.4	254.7	313.5	325.1	201.2	381.5	358.3	581.1	3247.0
22	546	42.0	22.5	57.2	36.3	358.3	237.5	327.0	366.5	281.9	393.5	266.0	80.5	2468.0
22	547	60.6	25.7	14.5	43.8	285.7	314.4	341.0	396.1	266.5	500.5	342.2	167.0	2759.0
22	548	40.2	24.4	20.8	112.6	286.7	272.1	343.3	337.2	336.2	304.9	311.0	242.8	2632.0
22	549	103.7	51.9	41.4	24.2	192.4	225.8	361.8	318.2	286.2	383.2	296.4	105.6	2390.0
22	550	29.4	73.9	53.0	111.9	238.8	364.9	358.6	375.7	295.2	291.0	302.9	177.2	2673.0
22	551	46.6	29.5	34.8	58.8	191.9	257.4	227.0	205.2	239.3	518.7	192.1	53.0	2054.0
22	552	24.5	29.4	13.0	82.0	212.6	262.5	185.0	288.6	294.6	309.2	297.7	58.4	2058.0
22	553	77.8	91.4	20.1	65.4	257.1	203.8	207.3	256.6	356.3	328.3	503.2	266.8	2633.0
22	554	50.2	20.6	6.8	5.4	256.8	183.4	171.4	319.7	388.1	571.0	367.6	54.0	2395.0
22	555	166.3	19.3	20.7	83.8	232.5	345.9	175.0	226.2	253.3	358.3	220.5	248.1	2350.0
22	556	18.5	28.2	67.3	132.1	247.8	227.5	300.1	272.2	258.6	356.1	403.4	277.3	2588.0
22	557	49.0	30.0	7.1	227.9	376.2	260.1	154.2	218.2	345.4	401.5	310.6	192.9	2573.0
22	558	52.9	31.6	4.9	50.9	263.2	251.4	297.3	220.7	267.0	444.5	618.9	156.6	2660.0
22	559	80.9	16.3	21.5	126.7	245.6	280.4	248.6	177.4	325.9	393.0	228.3	234.1	2378.0
22	560	40.5	9.0	8.6	92.0	174.1	335.5	125.6	213.1	299.5	282.4	609.1	287.6	2477.0
22	561	87.2	8.3	7.7	23.1	337.2	190.8	206.4	223.7	275.5	348.8	441.2	379.0	2528.0
22	562	46.0	25.8	19.4	79.5	369.6	215.9	222.7	335.5	299.9	328.9	532.1	142.0	2618.0
22	563	160.7	58.7	120.8	321.9	282.5	212.5	222.4	350.1	331.4	348.4	544.4	230.9	3184.0
22	564	7.6	14.7	52.3	38.9	244.1	259.2	233.4	319.7	246.7	245.0	265.1	343.6	2271.0
22	565	92.2	32.5	54.7	161.8	260.8	249.9	294.7	266.8	435.1	285.4	385.7	205.9	2727.0
22	566	105.7	10.2	10.5	58.1	223.7	314.5	388.4	220.9	205.0	373.3	314.1	465.6	2690.0
22	567	59.0	21.5	31.8	59.5	174.6	271.3	262.2	233.4	353.7	316.3	461.0	460.3	2705.0
22	568	110.4	47.0	14.1	46.0	309.4	268.3	266.6	271.4	254.8	339.3	270.0	304.0	2500.0
22	569	38.9	14.6	37.4	86.3	232.1	254.1	349.4	293.9	285.9	434.0	328.1	216.3	2570.0
22	570	83.3	4.2	11.2	226.2	340.2	250.4	333.3	302.8	260.3	273.4	297.7	300.4	2681.0
22	571	38.7	84.9	23.6	56.1	290.8	340.5	357.5	318.4	200.7	251.2	255.4	91.6	2310.0
22	572	84.8	94.9	60.4	107.5	176.7	255.5	267.8	247.5	308.4	297.6	449.2	52.5	2405.0
22	573	188.5	68.5	27.2	76.2	398.2	446.3	239.5	396.3	407.3	409.8	589.3	49.3	3295.0
22	574	24.9	17.6	5.5	33.7	180.0	220.3	208.6	260.3	287.4	372.9	425.2	350.2	2386.0
22	575	237.4	33.2	21.0	339.7	359.1	248.3	196.0	224.0	316.8	328.5	201.9	221.6	2727.0
22	576	87.9	72.8	100.9	105.8	269.5	227.4	211.2	260.1	236.8	487.5	284.7	156.8	2502.0
22	577	67.9	45.2	15.4	120.3	377.7	302.0	221.1	293.9	294.9	529.0	368.6	197.3	2833.0
22	578	62.1	21.9	12.8	108.9	194.0	243.1	229.9	196.3	346.8	342.0	403.6	198.5	2361.0
22	579	17.3	42.3	37.9	286.9	309.5	201.2	281.8	273.2	322.2	377.9	236.0	168.2	2553.0
22	580	69.0	28.9	46.8	58.5	290.1	300.0	163.9	348.1	390.0	348.6	347.0	156.6	2549.0
22	581	207.5	66.2	6.2	70.9	294.9	332.1	402.9	347.8	257.7	299.0	363.5	388.1	3036.0
22	582	80.4	34.0	19.6	247.3	309.9	313.9	199.9	328.3	293.0	312.2	406.2	122.9	2667.0
22	583	84.3	22.2	12.7	72.2	368.0	450.0	370.3	382.6	327.7	307.7	380.5	154.9	2933.0
22	584	26.8	20.5	18.0	165.7	310.3	246.5	130.3	285.6	373.4	242.3	427.1	47.9	2293.0
22	585	113.0	9.8	23.2	111.4	278.1	296.9	218.6	225.5	211.0	301.6	401.7	237.2	2429.0
22	586	33.4	20.4	11.1	112.1	271.9	293.4	267.6	278.2	250.4	340.2	242.0	256.3	2375.0
22	587	29.1	29.4	8.4	98.1	310.1	190.0	266.1	247.9	335.5	246.8	312.2	409.0	2482.0
22	588	51.0	14.0	21.2	91.6	319.1	318.9	269.0	307.0	307.9	312.2	627.6	316.4	2956.0
22	589	39.5	42.6	25.4	235.3	286.7	218.2	205.9	318.9	361.6	361.8	488.6	191.9	2777.0
22	590	102.5	26.9	112.6	282.7	329.1	260.0	278.9	236.9	235.6	312.7	464.7	231.4	2876.0
22	591	37.7	37.8	50.6	180.4	303.5	327.6	217.6	222.0	222.9	369.9	317.5	179.7	2468.0
22	592	31.3	21.0	63.4	45.2	154.6	151.5	210.5	236.0	326.3	429.1	316.0	9.9	1995.0
22	593	24.0	11.8	11.6	65.0	293.6	306.7	227.9	362.6	323.1	385.2	339.1	154.8	2507.0

22	594	38.5	20.2	41.0	203.6	308.5	286.7	303.4	232.0	219.2	323.0	496.5	84.2	2557.0
22	595	42.9	10.2	5.3	53.5	378.5	342.3	163.1	215.6	328.9	374.3	300.4	110.7	2325.0
22	596	78.5	79.5	50.6	51.3	275.7	221.7	196.1	278.1	299.0	257.2	251.9	196.6	2237.0
22	597	71.0	40.6	32.7	61.2	280.5	281.7	247.0	224.9	280.8	376.0	375.7	442.0	2716.0
22	598	22.1	8.6	42.1	55.2	221.7	199.8	217.2	260.9	372.8	411.2	493.0	148.7	2454.0
22	599	61.5	7.2	16.8	244.9	340.0	212.5	302.3	300.6	315.4	537.1	265.2	82.9	2685.0
22	600	34.1	23.5	14.7	105.0	335.9	201.3	240.0	250.8	364.4	297.2	405.0	109.6	2382.0

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MAXIMUM VOLUMES FOR PERIOD 6 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	343.7	94.9	223.4	346.7	447.3	471.7	430.6	467.8	435.1	673.0	766.6	581.1	766.6	2488.6	14142.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	1.9	3.4	4.0	5.4	154.6	151.5	75.6	166.4	190.0	242.3	179.0	9.9	1.9	310.9	9841.
STA 22 MONTH 1 MEAN	69.28	VARIANCE	3283.94	STAN. DEV.	57.31										
STA 22 MONTH 2 MEAN	32.98	VARIANCE	515.39	STAN. DEV.	22.70										
STA 22 MONTH 3 MEAN	32.97	VARIANCE	1141.94	STAN. DEV.	33.79										
STA 22 MONTH 4 MEAN	103.49	VARIANCE	5704.73	STAN. DEV.	75.53										
STA 22 MONTH 5 MEAN	280.79	VARIANCE	4564.49	STAN. DEV.	67.56										
STA 22 MONTH 6 MEAN	273.41	VARIANCE	4620.49	STAN. DEV.	67.97										
STA 22 MONTH 7 MEAN	255.74	VARIANCE	5409.97	STAN. DEV.	73.55										
STA 22 MONTH 8 MEAN	282.02	VARIANCE	4206.11	STAN. DEV.	64.85										
STA 22 MONTH 9 MEAN	294.64	VARIANCE	3683.94	STAN. DEV.	60.70										
STA 22 MONTH 10 MEAN	359.25	VARIANCE	8546.85	STAN. DEV.	92.45										
STA 22 MONTH 11 MEAN	363.80	VARIANCE	15548.83	STAN. DEV.	124.69										
STA 22 MONTH 12 MEAN	204.18	VARIANCE	15190.68	STAN. DEV.	123.25										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 7

STA 22 MONTH 1	MEAN-0.010	STD DEVO.0.066
STA 22 MONTH 2	MEAN 0.003	STD DEVO.0.062
STA 22 MONTH 3	MEAN-0.002	STD DEVO.0.069
STA 22 MONTH 4	MEAN 0.000	STD DEVO.0.066
STA 22 MONTH 5	MEAN 0.003	STD DEVO.0.059
STA 22 MONTH 6	MEAN 0.003	STD DEVO.0.067
STA 22 MONTH 7	MEAN 0.004	STD DEVO.0.069
STA 22 MONTH 8	MEAN 0.002	STD DEVO.0.062
STA 22 MONTH 9	MEAN 0.010	STD DEVO.0.074
STA 22 MONTH 10	MEAN 0.001	STD DEVO.0.063
STA 22 MONTH 11	MEAN 0.005	STD DEVO.0.056
STA 22 MONTH 12	MEAN-0.008	STD DEVO.0.062

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	601	22.7	13.3	10.0	132.6	269.5	397.9	316.1	298.6	308.8	279.1	296.6	50.2	2397.0
22	602	109.1	28.5	50.4	108.4	288.7	340.3	272.0	217.1	274.5	299.0	198.7	245.4	2431.0
22	603	193.3	19.4	12.1	126.3	448.0	304.5	340.3	211.9	194.3	315.9	379.7	219.0	2764.0
22	604	31.6	8.3	23.4	16.3	245.8	249.0	220.6	246.5	244.3	259.1	512.6	349.9	2407.0
22	605	39.3	42.5	8.7	111.4	228.5	306.6	264.3	375.1	303.7	414.8	341.8	63.9	2501.0
22	606	47.6	97.5	154.7	92.3	233.2	252.2	263.4	339.8	299.1	373.4	242.9	222.6	2618.0
22	607	163.0	11.7	4.6	53.8	168.5	303.5	342.2	233.0	345.3	465.0	405.8	135.7	2632.0
22	608	45.9	35.6	14.8	177.0	336.5	193.3	199.8	311.7	322.2	371.0	256.0	152.0	2417.0
22	609	19.7	6.1	9.6	26.5	255.1	214.7	199.2	374.4	379.9	351.8	573.4	319.4	2729.0
22	610	77.4	53.2	21.1	37.2	309.3	216.0	160.3	262.4	317.2	285.1	347.4	30.6	2115.0

22	611	18.2	13.2	40.8	213.6	386.0	212.7	146.0	246.6	251.9	347.1	591.8	252.7	2722.0
22	612	27.1	27.5	7.9	61.8	282.6	188.9	384.1	377.6	271.6	288.0	551.2	253.8	2723.0
22	613	40.7	8.9	9.8	188.5	273.0	293.1	174.3	260.3	339.8	360.2	271.0	18.1	2238.0
22	614	52.1	47.7	10.6	82.4	291.6	275.5	202.3	278.2	312.2	461.8	468.0	470.3	2952.0
22	615	389.8	61.1	39.0	326.0	402.2	209.0	207.3	264.4	322.4	436.8	340.3	234.2	3231.0
22	616	219.5	81.2	29.1	277.9	277.4	209.4	262.3	291.8	311.5	268.2	266.4	193.9	2686.0
22	617	27.2	13.4	31.0	40.3	353.3	288.7	348.7	279.5	186.7	360.7	414.3	207.8	2552.0
22	618	66.1	21.8	40.9	86.1	244.5	173.5	181.9	317.8	300.4	387.8	272.4	157.8	2251.0
22	619	43.4	6.7	10.3	88.6	259.9	278.0	329.8	348.3	236.1	374.7	356.3	349.7	2682.0
22	620	89.7	10.3	20.7	137.1	357.8	204.8	186.6	307.2	314.0	324.4	388.6	235.4	2577.0
22	621	20.5	33.8	46.9	65.0	400.3	322.6	323.8	238.5	294.1	302.2	418.5	155.0	2622.0
22	622	65.3	25.4	30.5	25.6	274.6	339.4	221.3	300.3	261.8	321.6	533.1	157.8	2556.0
22	623	33.4	20.7	20.5	215.4	211.8	336.4	164.1	321.1	234.6	390.5	230.0	115.9	2294.0
22	624	108.7	63.9	56.7	98.5	344.6	397.1	229.3	306.6	301.9	345.6	278.5	152.5	2687.0
22	625	17.2	18.6	7.0	165.6	195.6	224.1	135.7	242.1	230.7	393.4	389.8	423.3	2444.0
22	626	74.8	21.1	138.1	103.8	312.8	264.4	333.6	280.9	252.0	391.4	314.2	140.7	2628.0
22	627	53.9	38.6	90.7	37.7	291.5	228.0	273.2	457.7	275.4	296.0	385.2	118.8	2547.0
22	628	77.8	34.8	60.0	180.6	395.4	252.3	241.4	303.5	274.1	357.4	344.6	178.7	2701.0
22	629	42.7	14.2	4.6	126.5	229.1	263.6	304.4	266.2	366.7	431.4	253.6	282.5	2586.0
22	630	99.3	27.6	6.0	70.6	368.3	230.4	418.7	290.7	247.8	385.7	309.0	147.4	2602.0
22	631	48.9	15.2	16.7	118.0	196.8	190.3	217.0	303.6	295.8	275.6	345.3	118.7	2143.0
22	632	54.8	52.4	50.6	128.7	324.8	320.5	368.9	311.9	419.1	385.6	206.4	287.1	2912.0
22	633	89.5	44.0	34.5	100.0	344.0	282.5	320.4	276.2	262.8	473.8	244.7	83.7	2557.0
22	634	9.7	24.5	27.6	76.3	239.1	382.9	228.5	259.5	339.8	282.1	397.0	97.7	2365.0
22	635	11.1	8.6	19.1	40.2	195.3	274.5	419.9	266.5	269.3	378.8	300.0	140.9	2324.0
22	636	29.1	18.2	5.8	146.3	265.9	314.3	298.8	194.3	394.6	537.6	194.2	47.5	2447.0
22	637	16.9	11.6	93.2	49.2	282.6	273.3	350.5	242.0	319.5	296.9	324.3	147.6	2407.0
22	638	41.6	8.5	43.0	64.5	182.4	213.0	295.4	270.2	344.0	337.1	268.7	308.8	2377.0
22	639	98.9	30.2	143.9	26.9	309.1	342.8	363.3	364.6	270.9	251.6	416.5	372.1	2991.0
22	640	40.0	19.3	72.1	112.4	273.7	312.6	167.7	317.6	292.4	292.8	673.0	448.4	3022.0
22	641	37.1	66.3	56.3	211.3	288.2	224.5	145.2	168.0	332.1	326.4	341.7	98.9	2295.0
22	642	8.7	1.9	4.2	11.6	255.9	428.2	285.8	368.9	401.3	347.4	273.0	116.2	2503.0
22	643	104.0	30.2	61.6	92.5	209.0	241.5	203.0	209.4	210.9	279.9	395.0	166.3	2203.0
22	644	24.2	13.4	7.3	144.2	287.6	216.6	226.0	253.9	316.2	216.1	510.0	671.1	2886.0
22	645	440.6	17.3	15.6	258.0	288.5	267.1	264.0	274.0	347.5	374.5	350.3	254.7	3152.0
22	646	52.2	18.6	32.3	35.0	274.5	263.8	269.6	408.3	377.6	318.4	315.3	122.9	2489.0
22	647	60.7	25.8	12.9	47.1	253.3	340.5	264.8	191.6	263.1	327.9	627.0	664.0	3079.0
22	648	181.0	59.8	54.1	47.4	228.7	154.9	198.4	217.5	324.8	533.7	620.1	87.8	2708.0
22	649	40.5	34.3	35.5	22.8	246.1	259.0	233.1	217.4	248.1	553.7	167.8	37.3	2095.0
22	650	4.2	16.7	12.6	60.0	339.8	329.0	266.6	290.3	333.2	414.6	253.7	89.8	2412.0
22	651	58.6	16.6	48.3	39.1	263.5	439.4	320.8	346.0	309.7	326.5	292.3	165.7	2627.0
22	652	117.8	41.7	23.7	123.1	225.5	326.4	364.3	323.9	315.2	376.2	232.0	293.8	2763.0
22	653	115.1	35.0	9.7	119.0	300.4	342.2	176.8	236.4	317.9	388.1	343.1	89.0	2472.0
22	654	29.6	86.2	19.1	36.2	312.8	263.1	169.7	212.0	252.8	296.7	395.1	161.2	2235.0
22	655	36.0	16.8	29.1	69.6	388.4	335.2	352.7	380.1	307.2	235.1	535.2	168.6	2854.0
22	656	20.6	35.9	35.8	60.1	253.1	346.8	245.4	294.1	382.7	396.7	360.3	380.0	2812.0
22	657	136.6	25.6	8.0	52.4	266.2	168.4	182.0	338.0	364.1	391.6	281.9	112.5	2327.0
22	658	41.5	21.3	22.8	66.1	290.2	246.7	303.8	237.6	222.9	407.4	291.5	349.9	2503.0
22	659	27.7	66.3	13.7	5.0	209.1	271.2	230.6	342.0	305.8	394.1	462.5	313.2	2642.0
22	660	91.3	60.9	25.2	60.2	350.8	253.9	322.6	208.0	293.4	286.8	226.4	127.6	2307.0
22	661	29.8	26.8	11.2	44.6	196.9	284.2	284.5	263.3	285.8	399.0	480.5	358.6	2666.0
22	662	102.1	40.8	24.5	44.4	197.4	249.9	172.5	297.0	313.8	532.9	501.1	145.2	2620.0
22	663	116.9	36.7	19.5	42.2	334.3	310.2	254.0	201.9	261.9	300.5	696.8	564.4	3140.0
22	664	91.1	133.7	45.7	258.9	355.5	305.5	250.7	253.0	308.0	402.7	451.2	74.9	2933.0

STA 22 MONTH 10 MEAN 357.58 VARIANCE 7663.86 STAN. DEV. 87.54
 STA 22 MONTH 11 MEAN 364.32 VARIANCE 15842.92 STAN. DEV. 125.87
 STA 22 MONTH 12 MEAN 204.85 VARIANCE 18542.62 STAN. DEV. 136.17

GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 8														
STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	701	12.6	21.3	28.6	50.5	447.3	239.5	132.5	271.8	197.8	425.3	367.1	241.0	2436.0
22	702	186.2	47.9	31.2	72.5	303.5	207.6	266.0	257.8	325.0	293.9	460.3	565.7	3018.0
22	703	46.5	19.3	13.1	34.1	270.4	222.1	351.6	308.0	211.0	369.8	503.3	65.6	2414.0
22	704	4.8	7.2	13.8	77.8	302.3	247.8	277.8	338.1	368.4	378.9	351.4	718.8	3087.0
22	705	157.3	20.5	8.3	19.3	211.4	311.8	265.6	341.5	282.2	458.1	352.0	324.3	2751.0
22	706	11.2	32.9	40.1	113.1	352.9	304.0	334.0	255.6	348.1	351.3	588.9	211.3	2943.0
22	707	114.3	114.7	79.8	231.7	223.6	237.1	272.3	229.1	333.2	484.3	369.7	269.9	2960.0
22	708	27.2	17.5	4.4	76.5	260.6	220.0	352.6	240.7	259.1	347.0	336.8	207.8	2351.0
22	709	62.8	19.1	3.2	43.5	360.2	291.8	436.6	293.9	336.9	284.5	276.7	38.2	2448.0
22	710	95.3	23.9	14.1	83.2	274.5	354.5	267.5	386.6	223.7	411.6	468.3	93.0	2696.0
22	711	37.0	24.8	15.9	70.3	197.5	183.2	105.9	240.2	234.4	359.0	240.6	277.7	1986.0
22	712	83.6	31.9	23.3	237.3	366.3	322.6	250.7	296.0	284.2	219.0	244.6	505.5	2866.0
22	713	166.1	88.2	35.7	186.6	281.1	321.0	306.1	195.1	321.6	363.4	670.4	151.1	3086.0
22	714	43.2	60.5	10.0	191.6	263.7	337.4	352.0	273.9	334.6	291.3	293.8	194.6	2647.0
22	715	50.1	19.1	10.5	88.2	325.5	334.3	377.5	260.8	401.4	370.8	345.7	131.1	2715.0
22	716	45.7	25.9	30.2	91.1	285.9	345.0	318.4	328.8	261.7	310.9	438.5	306.6	2790.0
22	717	112.5	43.9	6.3	21.8	221.3	373.9	297.9	272.5	326.6	314.5	309.1	103.4	2405.0
22	718	158.3	51.8	31.5	49.0	360.8	342.1	355.4	287.6	246.8	301.6	383.5	159.0	2727.0
22	719	58.1	39.5	15.4	21.9	252.1	246.8	148.4	214.0	407.3	240.2	296.8	102.0	2041.0
22	720	58.3	17.2	20.2	31.4	261.3	213.6	264.2	277.7	263.9	301.7	250.9	225.7	2186.0
22	721	204.5	22.7	15.9	61.5	211.0	241.4	223.8	340.7	283.5	459.7	363.5	143.3	2573.0
22	722	36.9	10.0	1.4	58.7	188.9	216.8	307.0	393.2	440.6	403.3	218.5	377.6	2654.0
22	723	35.7	26.4	21.8	43.8	342.6	195.7	176.6	229.0	304.5	249.1	530.3	86.2	2242.0
22	724	56.3	68.0	40.2	56.6	234.5	314.3	241.4	240.3	303.6	392.8	409.8	153.0	2511.0
22	725	57.9	10.0	65.1	222.0	289.8	191.3	168.8	320.1	341.1	329.1	389.3	174.5	2558.0
22	726	62.9	7.3	11.2	65.3	260.3	306.7	169.3	240.6	366.6	586.2	259.4	190.2	2525.0
22	727	27.8	27.2	34.9	53.6	285.8	260.3	108.2	289.3	333.4	260.0	503.2	161.5	2344.0
22	728	15.8	13.2	23.0	14.9	318.8	160.7	159.6	270.3	236.3	515.0	348.4	215.9	2292.0
22	729	13.2	12.0	5.4	152.0	209.6	243.6	178.2	249.7	297.7	419.7	464.1	144.5	2391.0
22	730	48.7	24.3	20.3	209.9	242.3	251.8	322.2	289.5	282.8	480.9	268.0	350.7	2792.0
22	731	122.3	102.2	127.1	91.0	225.5	251.9	338.5	326.3	301.1	497.3	326.8	24.6	2735.0
22	732	23.5	56.7	10.6	52.4	265.0	251.8	301.5	234.9	194.5	263.1	579.4	305.7	2539.0
22	733	68.6	57.4	50.2	67.5	259.5	304.7	233.3	448.7	245.0	360.7	365.2	286.4	2747.0
22	734	17.8	15.5	14.1	37.6	312.3	381.8	165.4	187.0	314.1	326.6	622.9	205.5	2602.0
22	735	42.0	37.7	15.7	15.3	261.3	272.6	187.1	332.0	272.0	424.7	510.8	297.3	2669.0

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22	736	98.3	17.7	10.9	115.2	286.0	277.4	239.4	236.6	289.3	285.9	528.9	149.6	2535.0
22	737	27.1	44.1	23.9	44.3	257.7	354.6	267.1	268.9	361.8	348.7	398.7	249.0	2647.0
22	738	6.5	17.5	70.1	162.9	274.2	340.3	278.9	245.4	226.5	293.5	502.8	143.8	2563.0
22	739	190.9	26.2	13.7	94.1	350.4	345.5	293.6	193.6	199.8	257.6	319.7	264.3	2550.0
22	740	219.1	57.1	30.3	16.3	247.1	280.0	207.3	285.1	252.6	409.8	202.7	396.5	2604.0
22	741	146.1	30.0	19.4	265.9	462.1	232.4	376.2	430.2	351.5	552.9	176.7	62.3	3105.0
22	742	28.6	8.2	7.4	16.3	212.9	238.7	227.8	266.6	318.1	414.0	451.2	533.2	2723.0
22	743	68.7	25.8	121.9	195.6	275.4	224.8	176.4	290.1	281.7	230.3	528.1	312.2	2731.0
22	744	170.4	88.7	31.6	75.6	238.4	240.0	227.4	219.5	391.5	319.3	368.5	216.6	2586.0
22	745	94.8	19.2	31.3	224.8	331.7	236.0	268.5	278.2	416.4	397.8	358.7	185.7	2844.0
22	746	41.0	17.3	28.0	22.6	238.7	251.6	136.2	316.5	294.2	389.6	349.4	59.8	2145.0
22	747	82.0	40.8	99.8	120.7	217.6	304.5	244.6	304.4	323.5	264.5	422.5	238.3	2666.0
22	748	59.1	50.8	15.8	95.3	313.5	193.1	334.1	399.4	303.4	348.2	337.6	486.6	2936.0
22	749	147.6	8.5	15.9	97.1	343.3	394.7	326.2	247.1	253.0	348.1	521.1	246.8	2949.0
22	750	69.3	24.2	78.4	119.9	330.6	218.1	310.3	280.8	267.1	383.3	285.1	225.5	2592.0
22	751	41.2	17.2	17.7	205.5	458.7	341.1	359.6	323.6	264.5	363.2	323.1	89.0	2805.0
22	752	36.8	23.1	47.3	119.6	264.8	174.6	262.8	367.2	195.3	374.0	202.6	268.0	2337.0
22	753	16.3	30.2	30.8	82.7	308.1	234.5	176.3	193.0	252.3	376.4	382.4	109.6	2191.0
22	754	37.0	15.3	28.6	75.2	303.2	273.7	247.4	233.3	289.9	263.9	512.9	121.4	2401.0
22	755	59.1	11.8	23.9	116.7	204.9	293.5	211.0	314.9	198.8	296.9	586.5	182.7	2503.0
22	756	25.9	27.7	24.4	130.7	336.8	271.0	282.9	293.3	267.4	542.6	359.5	109.0	2672.0
22	757	81.9	29.1	74.1	92.4	231.7	237.6	303.2	357.9	313.0	459.9	314.8	255.6	2752.0
22	758	51.1	101.9	108.8	151.1	282.5	289.4	192.4	215.1	264.1	425.7	352.6	114.2	2549.0
22	759	73.0	52.3	56.3	112.8	342.1	229.6	170.4	202.2	312.4	328.7	373.9	110.7	2364.0
22	760	38.9	65.7	12.5	9.6	139.1	255.6	197.6	303.3	359.6	337.9	150.5	71.9	1944.0
22	761	19.0	16.4	15.9	97.3	320.1	240.2	347.5	317.6	330.1	349.3	338.6	126.8	2518.0
22	762	37.0	46.2	65.5	119.4	304.7	305.4	183.9	200.4	272.8	452.4	226.8	114.6	2329.0
22	763	16.2	8.4	12.1	222.1	369.1	188.0	162.2	300.8	320.1	316.2	313.1	234.6	2462.0
22	764	176.6	49.9	13.4	79.5	233.1	229.1	252.2	280.9	209.9	256.5	444.8	242.9	2470.0
22	765	86.3	36.9	15.9	84.4	294.0	259.0	175.2	254.1	319.6	376.0	548.8	83.6	2534.0
22	766	14.1	49.9	15.2	37.5	201.1	250.0	229.6	361.6	349.7	477.4	280.1	162.7	2429.0
22	767	11.2	23.4	79.0	163.4	234.4	320.3	278.8	301.1	421.4	307.9	294.9	120.1	2554.0
22	768	44.4	19.4	27.1	153.8	221.3	268.8	215.1	349.1	254.4	378.0	273.5	50.2	2254.0
22	769	25.6	11.4	34.0	74.6	417.6	318.4	269.7	300.8	245.3	300.9	204.3	274.5	2478.0
22	770	66.7	51.1	30.7	94.8	368.1	283.8	171.1	248.8	260.4	233.1	504.7	575.7	2890.0
22	771	47.8	13.9	32.7	345.2	359.2	362.7	163.9	168.8	270.2	365.4	347.8	78.5	2556.0
22	772	15.3	27.1	4.1	55.2	265.4	251.3	214.5	221.1	222.9	433.9	402.3	94.1	2205.0
22	773	101.2	9.0	26.4	43.5	321.8	281.8	353.7	304.2	345.4	357.5	208.4	113.0	2465.0
22	774	262.8	129.4	27.7	49.3	267.4	291.3	321.7	294.9	319.1	276.5	428.6	464.5	3133.0
22	775	25.8	5.4	11.6	15.6	305.0	363.6	191.5	340.1	373.1	413.1	264.6	108.2	2419.0
22	776	82.3	15.6	48.9	148.8	217.2	243.8	296.8	322.8	318.4	286.4	342.8	52.9	2377.0
22	777	10.8	11.7	6.1	61.4	229.1	238.3	359.3	420.2	308.4	505.0	360.0	181.8	2691.0
22	778	132.4	21.2	8.6	112.9	239.3	203.2	238.4	308.9	250.9	336.9	162.9	36.1	2051.0
22	779	24.7	43.7	69.9	229.7	247.6	191.3	218.8	229.8	297.5	514.4	311.9	56.0	2437.0
22	780	58.7	8.4	13.6	84.7	203.9	450.1	358.4	264.9	252.5	468.8	323.3	91.6	2580.0
22	781	16.1	11.6	52.9	78.3	317.3	203.2	231.7	338.5	311.2	296.4	152.8	125.0	2134.0
22	782	116.3	10.9	19.0	94.1	301.9	230.3	253.6	303.9	370.6	458.2	498.6	909.7	3568.0
22	783	170.6	38.5	119.6	259.3	245.5	247.6	239.7	315.9	357.7	359.6	374.8	549.1	3279.0
22	784	231.6	28.3	92.3	83.8	227.5	300.3	271.3	305.1	235.3	277.7	384.5	76.8	2514.0
22	785	27.5	34.4	10.2	172.0	326.9	375.6	250.6	168.3	303.9	399.2	324.8	165.0	2559.0
22	786	47.9	42.8	23.3	56.0	181.0	231.4	305.3	295.2	328.3	301.2	338.9	121.1	2271.0
22	787	12.4	12.6	21.8	66.5	299.0	355.7	327.2	222.2	316.8	361.2	466.5	247.2	2709.0
22	788	20.9	24.0	38.3	180.6	234.0	229.2	291.6	311.2	284.2	374.1	357.6	48.3	2394.0
22	789	77.0	46.7	17.1	251.0	370.3	340.3	198.7	274.5	264.3	388.5	281.1	158.9	2667.0

22	790	56.8	32.1	6.3	78.7	363.7	237.4	276.5	245.6	279.4	468.7	257.1	70.5	2374.0
22	791	42.4	22.2	65.6	35.4	348.1	188.9	301.5	218.5	326.6	268.2	316.7	311.9	2447.0
22	792	175.5	53.9	27.3	162.0	432.4	237.1	281.5	293.5	299.5	299.8	331.1	43.5	2635.0
22	793	39.1	7.8	42.9	26.5	229.2	179.8	212.5	207.4	327.4	388.6	506.2	204.4	2370.0
22	794	47.8	129.2	32.8	123.9	294.8	363.5	253.6	232.6	327.6	333.1	301.0	142.2	2584.0
22	795	93.5	84.7	10.4	97.2	250.7	306.9	424.1	276.7	260.2	364.9	257.8	191.2	2618.0
22	796	82.3	58.7	57.3	246.5	294.6	270.7	283.3	260.3	306.6	349.8	325.4	110.3	2645.0
22	797	29.0	5.2	30.1	43.8	277.7	330.9	236.4	379.0	356.8	291.8	479.2	297.3	2757.0
22	798	67.8	6.6	15.5	190.3	264.6	486.7	264.4	229.0	324.0	328.3	310.0	129.8	2618.0
22	799	31.9	18.9	31.0	27.4	192.5	260.1	287.2	287.2	241.7	333.1	270.2	138.9	2120.0
22	800	131.5	48.8	36.9	135.8	355.2	392.8	286.0	478.6	332.3	249.3	539.0	289.9	3277.0

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MAXIMUM VOLUMES FOR PERIOD 8 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	262.8	129.4	127.1	345.2	462.1	486.7	436.6	478.6	440.6	586.2	670.4	909.7	909.7	2794.5	13627.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	4.8	5.2	1.4	9.6	139.1	160.7	105.9	168.3	194.5	219.0	150.5	24.6	1.4	299.5	9880.
STA 22 MONTH 1 MEAN	69.21	VARIANCE	3307.09	STAN. DEV.	57.51										
STA 22 MONTH 2 MEAN	33.35	VARIANCE	719.71	STAN. DEV.	26.83										
STA 22 MONTH 3 MEAN	31.88	VARIANCE	771.40	STAN. DEV.	27.77										
STA 22 MONTH 4 MEAN	103.03	VARIANCE	5140.90	STAN. DEV.	71.70										
STA 22 MONTH 5 MEAN	280.52	VARIANCE	4729.45	STAN. DEV.	68.77										
STA 22 MONTH 6 MEAN	271.50	VARIANCE	4522.82	STAN. DEV.	67.25										
STA 22 MONTH 7 MEAN	255.25	VARIANCE	5430.81	STAN. DEV.	73.69										
STA 22 MONTH 8 MEAN	279.83	VARIANCE	4004.48	STAN. DEV.	63.28										
STA 22 MONTH 9 MEAN	294.97	VARIANCE	3711.65	STAN. DEV.	60.92										
STA 22 MONTH 10 MEAN	359.06	VARIANCE	7440.77	STAN. DEV.	86.26										
STA 22 MONTH 11 MEAN	361.35	VARIANCE	13380.44	STAN. DEV.	115.67										
STA 22 MONTH 12 MEAN	205.15	VARIANCE	23560.87	STAN. DEV.	153.50										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 9

STA 22 MONTH 1 MEAN	0.006	STD DEVO	0.064
STA 22 MONTH 2 MEAN	-0.006	STD DEVO	0.066
STA 22 MONTH 3 MEAN	-0.008	STD DEVO	0.065
STA 22 MONTH 4 MEAN	-0.007	STD DEVO	0.058
STA 22 MONTH 5 MEAN	-0.001	STD DEVO	0.066
STA 22 MONTH 6 MEAN	0.005	STD DEVO	0.069
STA 22 MONTH 7 MEAN	-0.003	STD DEVO	0.061
STA 22 MONTH 8 MEAN	0.009	STD DEVO	0.073
STA 22 MONTH 9 MEAN	0.004	STD DEVO	0.067
STA 22 MONTH 10 MEAN	0.009	STD DEVO	0.056
STA 22 MONTH 11 MEAN	-0.005	STD DEVO	0.064
STA 22 MONTH 12 MEAN	-0.013	STD DEVO	0.066

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	801	95.2	38.6	31.9	190.1	308.4	325.2	255.0	243.5	361.4	285.9	283.1	45.4	2462.0
22	802	44.2	31.9	23.4	56.0	384.8	230.4	232.1	324.7	245.6	363.4	251.5	43.7	2231.0
22	803	13.1	24.1	12.0	26.9	272.9	437.3	239.9	248.5	311.5	316.8	324.5	112.1	2340.0
22	804	32.8	7.1	42.8	79.2	326.1	298.9	142.9	383.6	393.3	249.5	253.4	76.1	2285.0
22	805	19.9	102.5	17.2	101.7	288.8	357.0	209.5	298.6	256.7	319.8	322.9	147.8	2443.0
22	806	14.1	52.3	21.1	21.6	207.8	315.3	251.2	332.3	288.0	288.5	506.3	322.3	2620.0

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22	807	61.7	143.7	9.8	136.5	362.4	357.1	351.0	259.4	216.5	366.4	470.6	143.7	2880.0
22	808	35.2	79.1	39.7	91.9	326.8	191.9	308.4	278.7	253.1	531.0	433.6	119.7	2690.0
22	809	131.9	57.3	79.0	108.9	238.2	185.8	112.3	301.4	278.6	337.3	266.6	37.0	2134.0
22	810	2.3	6.1	3.3	66.9	426.8	271.5	354.5	423.0	298.3	293.3	311.1	313.1	2769.0
22	811	60.2	67.2	31.2	35.8	242.6	229.2	169.2	190.0	237.8	361.1	315.5	89.5	2029.0
22	812	22.6	9.1	43.1	103.8	228.8	253.0	231.8	297.7	181.4	406.5	645.1	914.0	3337.0
22	813	34.9	19.5	95.3	107.9	283.3	276.2	254.5	336.8	312.6	352.1	404.4	179.9	2656.0
22	814	34.2	38.1	10.9	89.4	277.1	281.6	397.4	394.3	277.3	318.3	301.0	199.0	2617.0
22	815	49.0	15.4	13.2	66.7	348.6	265.2	139.0	233.4	276.9	517.1	579.7	441.3	2945.0
22	816	126.7	56.6	15.0	48.2	151.8	242.9	185.5	302.7	389.2	566.3	203.3	114.0	2402.0
22	817	61.5	39.1	7.1	60.8	266.9	251.2	179.1	223.4	393.1	227.1	249.2	24.5	1982.0
22	818	28.9	15.4	17.0	178.7	353.9	268.7	272.2	321.1	335.2	287.2	287.6	201.2	2567.0
22	819	30.6	55.9	12.7	78.7	438.9	300.7	329.9	299.3	279.7	303.5	354.3	345.4	2831.0
22	820	86.4	26.9	38.9	45.8	330.0	360.7	308.7	303.6	312.6	266.3	525.3	372.6	2979.0
22	821	74.0	11.5	34.7	119.8	359.5	195.5	204.1	296.4	319.0	349.1	254.3	105.2	2323.0
22	822	178.1	20.1	10.1	135.1	282.4	199.7	173.2	227.3	253.5	365.6	310.5	124.5	2279.0
22	823	29.4	34.6	21.6	277.6	368.7	347.7	366.7	300.2	201.9	429.0	284.5	71.2	2734.0
22	824	65.3	39.4	18.4	68.2	354.9	248.3	276.8	385.8	327.4	362.8	500.0	386.2	3032.0
22	825	51.0	9.7	14.1	78.5	171.7	225.9	338.0	368.7	324.3	305.7	301.9	150.2	2340.0
22	826	39.4	27.1	19.9	107.8	261.9	316.2	206.0	202.9	325.5	314.3	522.2	116.9	2459.0
22	827	139.2	15.0	1.7	32.5	271.8	246.9	334.9	295.9	323.1	431.9	403.2	264.2	2761.0
22	828	126.2	27.4	17.6	199.1	279.0	333.1	163.8	265.8	247.0	250.5	353.0	124.9	2388.0
22	829	51.8	13.4	12.3	27.1	282.7	290.8	239.2	265.4	324.2	444.7	428.6	288.3	2668.0
22	830	81.6	27.6	13.0	27.8	248.5	203.4	286.8	300.5	389.3	483.7	267.3	296.7	2628.0
22	831	71.0	22.3	12.1	169.4	334.4	260.8	154.9	234.0	256.6	547.3	496.7	252.2	2811.0
22	832	294.7	44.7	98.6	214.0	334.1	258.8	225.8	287.7	327.1	426.0	215.3	40.3	2768.0
22	833	19.8	43.0	18.9	84.7	323.6	350.1	332.1	171.8	299.3	313.0	212.0	141.4	2310.0
22	834	36.1	26.6	27.6	179.7	334.4	275.7	296.4	258.7	350.3	570.9	281.9	149.7	2789.0
22	835	27.7	22.4	49.1	116.1	306.1	315.2	301.2	291.4	355.3	317.6	694.6	484.8	3281.0
22	836	30.9	54.8	44.9	125.9	239.6	195.7	212.0	286.7	305.5	325.4	386.5	269.9	2478.0
22	837	441.3	39.5	32.2	151.0	241.2	332.3	329.8	247.4	217.5	383.8	424.0	298.2	3137.0
22	838	111.2	36.9	12.8	83.8	125.2	305.1	220.0	345.0	247.3	349.2	262.7	384.8	2484.0
22	839	11.7	10.6	9.7	45.0	350.6	336.5	320.3	297.8	225.1	344.8	168.5	238.4	2360.0
22	840	126.8	19.4	18.5	128.3	225.3	282.5	290.8	303.9	311.3	424.8	237.8	174.6	2544.0
22	841	73.2	16.0	8.5	55.7	417.3	325.1	222.1	434.8	311.6	360.9	400.3	271.2	2897.0
22	842	43.3	49.3	85.2	243.4	312.9	353.2	437.0	248.5	354.8	472.7	479.0	37.9	3117.0
22	843	28.3	4.5	29.5	129.2	240.0	367.5	246.5	466.5	365.4	339.7	415.9	166.9	2798.0
22	844	292.6	31.6	27.8	198.4	337.5	285.1	223.6	231.8	292.4	244.1	373.9	158.9	2698.0
22	845	94.2	20.6	31.3	157.5	230.4	330.2	228.2	227.4	406.4	364.0	360.5	379.8	2830.0
22	846	62.0	8.5	3.3	70.7	332.0	276.7	252.6	222.0	258.3	282.7	250.6	168.2	2189.0
22	847	42.5	19.9	67.4	98.6	330.5	302.2	253.0	300.0	199.9	409.0	471.0	249.9	2743.0
22	848	72.1	63.1	30.1	45.0	251.5	230.2	222.4	202.0	310.4	378.7	368.5	126.9	2300.0
22	849	44.3	27.9	36.9	28.4	280.8	245.9	362.3	374.8	335.2	354.1	286.5	248.0	2624.0
22	850	167.0	16.8	28.7	199.5	215.0	155.3	126.3	265.5	254.8	374.4	245.5	246.3	2293.0
22	851	93.1	65.6	27.0	258.7	298.3	323.0	379.5	348.7	331.4	237.4	447.9	334.9	3146.0
22	852	40.5	62.6	32.9	217.9	314.3	219.3	375.0	233.5	279.3	482.4	228.2	116.6	2602.0
22	853	32.8	17.9	31.2	42.9	357.5	250.5	218.6	262.1	221.2	475.8	298.1	100.5	2311.0
22	854	55.2	39.9	56.9	41.4	329.0	245.1	299.1	238.4	259.5	415.3	271.8	189.5	2439.0
22	855	97.2	17.6	18.6	27.4	210.2	261.1	216.9	294.4	204.4	316.5	379.0	155.4	2197.0
22	856	72.0	5.2	98.0	170.0	352.4	279.7	268.5	226.1	281.2	292.2	357.8	395.2	2798.0
22	857	31.2	20.3	57.1	235.5	317.2	197.9	307.1	195.4	381.8	269.0	505.4	102.8	2620.0
22	858	14.9	35.0	18.0	56.7	317.0	252.3	354.4	263.4	316.7	292.1	464.0	238.0	2622.0
22	859	56.8	46.4	166.7	273.7	262.2	218.3	317.8	337.4	331.6	355.2	242.4	34.1	2642.0
22	860	22.5	34.0	16.8	46.4	279.9	166.8	157.2	310.2	326.4	298.2	164.3	103.1	1925.0

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22	861	39.3	21.0	37.4	66.4	288.0	188.5	229.0	263.6	272.1	314.3	407.1	115.3	2241.0
22	862	12.0	7.8	5.3	12.3	189.6	318.8	292.5	333.6	287.7	456.5	345.3	310.1	2573.0
22	863	39.5	33.5	14.9	103.4	314.4	201.3	271.7	356.6	263.4	230.9	356.1	46.8	2233.0
22	864	52.1	40.3	78.9	100.3	245.1	224.1	249.6	202.7	316.8	407.1	408.0	84.8	2410.0
22	865	140.5	58.5	21.4	19.9	240.6	294.3	170.1	228.2	192.3	261.8	267.7	175.9	2071.0
22	866	32.4	48.5	28.6	334.4	273.5	273.3	150.8	221.1	301.2	303.4	285.0	125.2	2377.0
22	867	46.9	121.9	123.2	53.4	276.7	230.7	220.4	392.6	413.6	368.1	451.4	371.9	3071.0
22	868	67.4	28.8	34.6	101.1	298.4	311.2	129.0	315.6	327.0	375.5	306.6	60.4	2356.0
22	869	36.1	35.9	16.3	420.5	269.8	181.6	259.5	190.1	332.1	369.1	407.4	443.5	2963.0
22	870	104.6	36.9	23.3	109.7	214.3	290.2	237.7	291.4	262.7	410.6	580.0	169.5	2731.0
22	871	34.2	18.5	10.4	69.0	223.4	363.4	300.5	202.3	305.6	456.7	222.3	24.6	2230.0
22	872	9.0	20.4	24.4	107.5	254.9	291.9	336.7	344.3	316.9	351.8	763.6	429.7	3252.0
22	873	39.7	12.5	5.9	25.2	296.3	271.1	338.0	262.3	350.6	362.2	476.8	61.0	2501.0
22	874	62.2	46.5	38.6	192.6	318.4	330.4	228.7	311.8	300.0	510.6	318.3	281.5	2940.0
22	875	273.5	74.7	91.5	34.7	230.6	289.0	195.1	294.4	361.7	378.7	426.5	114.3	2765.0
22	876	30.0	7.0	21.5	59.3	219.5	364.7	210.5	232.8	294.0	336.1	398.1	213.2	2386.0
22	877	34.2	5.2	11.8	196.8	307.1	440.8	277.3	306.0	256.6	283.6	241.1	278.3	2639.0
22	878	44.9	19.4	25.6	74.3	348.1	267.0	383.0	217.6	327.9	440.5	254.9	124.6	2529.0
22	879	43.6	21.2	21.5	19.6	171.8	167.9	218.8	214.7	300.1	266.3	531.9	291.5	2271.0
22	880	66.3	29.8	89.1	220.4	338.2	258.6	284.0	259.4	199.4	249.7	740.9	478.1	3213.0
22	881	224.8	39.6	66.6	83.5	320.4	302.9	141.4	277.6	305.0	567.4	265.4	130.2	2725.0
22	882	123.3	12.8	62.0	63.6	331.0	340.8	251.8	301.2	261.2	296.9	413.3	188.7	2647.0
22	883	34.5	15.3	26.8	140.4	340.6	366.2	233.5	367.5	312.8	346.5	326.3	163.6	2675.0
22	884	48.1	37.3	30.0	88.3	342.5	309.7	321.0	243.5	272.7	400.1	425.0	306.9	2825.0
22	885	91.9	8.9	6.3	30.1	351.9	288.2	250.0	293.6	276.8	311.5	314.9	399.2	2623.0
22	886	114.2	36.8	15.6	204.6	354.4	343.7	269.6	227.4	265.4	360.8	338.1	191.4	2722.0
22	887	79.3	20.0	6.8	52.0	244.5	192.1	175.6	367.3	222.2	289.5	321.1	202.6	2173.0
22	888	30.3	27.4	10.1	61.1	213.4	287.2	264.5	241.1	266.1	267.3	474.8	516.5	2659.0
22	889	45.5	22.0	19.0	26.0	231.6	249.6	341.4	264.0	351.4	371.1	329.0	138.1	2389.0
22	890	15.3	2.6	15.2	15.3	203.0	322.6	393.8	437.4	332.3	253.6	652.6	170.2	2814.0
22	891	52.5	28.5	13.8	169.5	207.5	221.7	199.5	269.6	226.9	441.5	239.8	165.3	2238.0
22	892	144.4	43.6	18.1	40.3	304.3	252.2	208.9	269.3	320.5	395.9	322.0	186.3	2505.0
22	893	15.4	76.4	91.6	96.7	195.8	216.3	322.2	315.4	287.3	370.5	348.0	202.7	2538.0
22	894	10.7	17.4	20.1	60.4	302.7	200.0	211.7	328.5	398.1	299.8	426.7	127.2	2403.0
22	895	51.9	42.3	17.6	87.6	264.3	160.1	282.6	303.8	237.6	428.6	305.8	66.9	2251.0
22	896	20.1	30.7	5.2	129.0	166.1	215.1	260.9	219.3	370.0	365.3	395.4	66.9	2243.0
22	897	18.5	8.7	47.2	25.1	233.5	214.6	227.0	266.1	333.4	439.2	299.2	157.4	2269.0
22	898	43.4	26.4	75.6	46.9	248.1	329.0	276.6	257.6	359.3	299.1	563.6	369.7	2896.0
22	899	258.3	113.0	32.9	35.8	245.2	343.9	321.3	277.4	366.6	347.0	198.5	92.5	2631.0
22	900	116.0	13.7	15.0	63.4	251.7	310.9	202.2	183.7	234.4	476.3	380.1	201.3	2448.0

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MAXIMUM VOLUMES FOR PERIOD 9 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	441.3	143.7	166.7	420.5	438.9	440.8	437.0	466.5	413.6	570.9	763.6	914.0	914.0	2676.4	13464.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	2.3	2.6	1.7	12.3	125.2	155.3	112.3	171.8	181.4	227.1	164.3	24.5	1.7	342.4	9520.

STA 22 MONTH 1 MEAN 70.59 VARIANCE 5008.26 STAN. DEV. 70.77

STA 22 MONTH 2 MEAN 33.33 VARIANCE 641.07 STAN. DEV. 25.32

STA 22 MONTH 3 MEAN 32.29 VARIANCE 850.51 STAN. DEV. 29.16

STA 22 MONTH 4 MEAN 104.41 VARIANCE 6004.32 STAN. DEV. 77.49

STA 22 MONTH 5 MEAN 281.66 VARIANCE 4495.23 STAN. DEV. 67.05

STA 22 MONTH 6 MEAN 272.20 VARIANCE 4320.35 STAN. DEV. 65.73
 STA 22 MONTH 7 MEAN 256.01 VARIANCE 5455.17 STAN. DEV. 73.86
 STA 22 MONTH 8 MEAN 282.81 VARIANCE 4342.46 STAN. DEV. 65.90
 STA 22 MONTH 9 MEAN 296.00 VARIANCE 3659.67 STAN. DEV. 60.50
 STA 22 MONTH 10 MEAN 356.97 VARIANCE 7671.99 STAN. DEV. 87.59
 STA 22 MONTH 11 MEAN 364.53 VARIANCE 16452.70 STAN. DEV. 128.27
 STA 22 MONTH 12 MEAN 204.72 VARIANCE 19693.11 STAN. DEV. 140.33

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 10

STA 22 MONTH 1 MEAN 0.001 STD DEVO.068
 STA 22 MONTH 2 MEAN 0.003 STD DEVO.064
 STA 22 MONTH 3 MEAN 0.004 STD DEVO.062
 STA 22 MONTH 4 MEAN 0.000 STD DEVO.068
 STA 22 MONTH 5 MEAN 0.000 STD DEVO.066
 STA 22 MONTH 6 MEAN-0.003 STD DEVO.060
 STA 22 MONTH 7 MEAN 0.010 STD DEVO.070
 STA 22 MONTH 8 MEAN-0.001 STD DEVO.062
 STA 22 MONTH 9 MEAN 0.006 STD DEVO.054
 STA 22 MONTH 10 MEAN-0.001 STD DEVO.061
 STA 22 MONTH 11 MEAN-0.004 STD DEVO.058
 STA 22 MONTH 12 MEAN-0.005 STD DEVO.061

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
22	901	121.5	49.9	18.9	59.2	300.7	251.5	403.8	242.1	302.8	372.0	452.7	70.0	2647.0
22	902	28.5	17.8	9.4	106.1	378.9	185.2	134.4	278.4	277.9	527.5	302.8	116.6	2364.0
22	903	74.0	18.0	3.8	58.2	270.4	216.7	307.6	258.4	342.8	479.5	392.5	253.1	2674.0
22	904	33.7	13.9	31.4	80.6	280.2	261.7	198.9	262.7	244.2	460.6	283.5	83.1	2235.0
22	905	87.9	26.1	11.3	56.7	344.2	273.9	234.7	348.4	297.7	392.9	404.1	28.2	2506.0
22	906	31.2	72.9	56.3	73.0	336.3	287.2	206.8	205.3	248.1	446.7	284.8	406.3	2654.0
22	907	52.6	16.7	25.1	154.6	355.2	300.7	141.3	176.7	213.2	323.2	468.6	521.0	2750.0
22	908	131.5	32.5	4.3	48.9	274.9	232.8	257.1	234.1	332.6	257.0	749.3	450.4	3004.0
22	909	67.5	23.2	94.7	368.0	264.5	418.5	389.9	359.8	408.8	243.5	334.7	122.1	3096.0
22	910	14.9	10.5	4.0	29.0	228.6	258.2	236.8	298.0	338.0	438.5	586.2	207.4	2650.0
22	911	52.0	114.3	74.2	75.0	227.6	215.6	265.7	263.5	190.2	442.2	403.4	387.2	2711.0
22	912	203.9	31.9	20.3	44.1	235.3	257.7	178.9	377.5	276.2	367.7	392.8	265.6	2653.0
22	913	37.9	36.4	79.3	133.6	248.0	297.6	249.6	426.5	332.9	373.2	367.9	135.9	2719.0
22	914	32.7	33.0	6.0	43.9	246.4	176.8	294.1	279.8	322.8	365.2	238.6	222.9	2263.0
22	915	84.9	93.2	39.7	33.7	292.1	261.3	276.4	309.2	226.8	390.7	387.8	177.6	2574.0
22	916	108.1	17.8	25.2	108.2	200.0	378.8	368.5	299.1	296.4	351.3	643.5	400.4	3196.0
22	917	16.0	21.3	27.3	146.3	396.5	325.1	206.4	228.6	291.9	471.1	355.9	188.7	2675.0
22	918	46.8	78.9	39.1	132.7	229.5	344.8	252.3	247.3	317.0	318.1	453.0	150.1	2610.0
22	919	33.4	22.0	67.3	359.0	371.4	371.6	292.7	248.8	304.1	343.1	285.3	122.7	2821.0
22	920	44.8	51.2	37.2	64.2	173.7	307.5	343.6	190.9	308.4	254.0	597.9	82.1	2456.0
22	921	63.2	34.6	23.2	103.7	242.2	213.9	145.9	221.4	310.4	385.9	286.0	117.6	2148.0
22	922	27.9	33.9	21.1	98.5	280.1	269.7	194.7	262.8	224.0	444.7	264.4	159.3	2281.0
22	923	20.6	29.4	34.6	26.7	278.9	233.6	288.7	189.2	250.6	497.3	295.4	78.1	2224.0
22	924	51.9	27.7	38.5	138.1	283.5	304.1	264.7	248.9	398.9	389.2	291.0	227.0	2664.0
22	925	58.7	74.4	28.6	41.3	232.1	331.6	331.0	304.8	363.9	348.3	456.7	173.0	2745.0
22	926	237.6	93.1	50.8	80.2	291.5	218.7	172.4	235.2	341.2	371.8	300.8	209.9	2604.0
22	927	112.4	55.9	34.4	146.3	243.0	209.8	158.3	280.8	279.8	372.7	291.0	124.1	2308.0
22	928	141.3	13.9	2.3	5.9	227.7	227.9	278.1	353.0	290.3	208.7	390.6	96.1	2236.0
22	929	32.6	20.1	26.9	116.6	250.0	380.3	290.4	318.7	297.4	352.1	321.3	124.4	2530.0
22	930	96.6	64.3	37.4	101.6	310.6	209.3	153.2	240.9	355.8	279.6	373.3	72.5	2295.0
22	931	14.8	16.5	73.5	185.0	202.8	210.6	279.8	306.4	272.0	329.5	442.8	444.5	2779.0

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22	932	112.5	15.6	20.3	40.5	223.5	282.9	253.2	195.6	214.0	401.8	382.6	236.4	2378.0
22	933	76.5	18.5	22.2	87.9	263.9	208.8	222.5	297.7	314.4	494.7	221.7	44.0	2273.0
22	934	97.5	16.8	9.0	24.0	237.1	257.5	335.6	349.2	374.5	323.7	389.4	49.9	2464.0
22	935	45.0	79.5	56.8	43.5	310.1	290.3	271.5	437.9	269.4	315.8	336.6	151.2	2608.0
22	936	37.7	31.9	48.2	35.0	259.8	241.3	323.6	242.7	313.8	309.0	251.6	93.3	2189.0
22	937	20.3	40.5	21.5	270.2	343.0	283.0	271.6	228.6	256.0	248.5	606.6	248.8	2838.0
22	938	117.1	33.3	26.8	182.2	301.3	202.0	215.4	236.9	191.8	429.8	594.1	152.7	2683.0
22	939	25.7	38.6	141.0	173.3	373.0	186.2	111.4	232.4	303.4	360.5	263.3	56.6	2265.0
22	940	51.5	5.2	12.4	61.0	250.7	244.0	180.9	199.9	343.7	407.6	262.9	258.0	2279.0
22	941	15.8	33.1	11.9	118.6	291.1	377.0	274.5	334.4	303.7	257.5	390.2	627.9	3036.0
22	942	322.5	27.7	12.5	64.1	289.6	339.0	264.7	302.5	237.8	397.4	556.6	94.9	2910.0
22	943	8.8	16.2	4.0	97.5	361.7	208.2	312.4	375.7	340.8	306.1	337.7	251.6	2621.0
22	944	30.4	55.0	49.3	33.3	235.4	323.5	296.7	306.2	247.1	344.5	232.7	41.0	2194.0
22	945	19.9	8.2	14.8	37.7	231.5	394.3	382.3	306.2	386.1	386.2	361.8	338.9	2868.0
22	946	42.5	11.1	30.0	44.3	198.7	275.9	285.5	235.6	284.8	218.9	293.6	109.9	2033.0
22	947	94.8	68.9	85.6	52.2	188.6	260.5	194.1	270.7	387.5	351.0	244.1	175.8	2375.0
22	948	14.7	18.3	23.0	25.9	408.8	349.6	225.3	230.0	364.1	355.2	286.6	61.3	2363.0
22	949	20.2	59.3	23.6	115.4	211.7	270.0	315.9	301.0	255.6	207.4	488.3	391.8	2660.0
22	950	22.3	24.9	26.7	97.1	237.0	284.4	278.6	367.1	365.1	477.2	831.4	422.1	3433.0
22	951	83.6	110.0	106.2	51.5	244.9	267.5	290.8	352.5	305.9	378.7	659.4	542.6	3395.0
22	952	61.2	91.0	26.4	39.0	290.3	286.7	276.7	219.9	235.3	369.6	251.6	90.1	2238.0
22	953	67.7	12.2	49.9	124.3	376.9	256.5	109.0	263.6	326.5	348.8	365.8	157.9	2460.0
22	954	90.2	25.9	14.6	16.9	215.5	335.1	267.7	313.6	259.8	344.7	316.3	49.4	2250.0
22	955	22.1	26.9	18.1	93.6	354.1	332.5	176.7	287.6	303.7	439.4	373.9	72.3	2502.0
22	956	45.2	42.2	60.1	42.6	224.3	321.7	285.4	268.1	312.2	368.8	220.4	208.4	2398.0
22	957	97.9	19.3	84.7	186.5	354.6	217.2	243.2	243.5	320.0	315.7	386.5	189.5	2659.0
22	958	66.9	7.9	19.0	171.5	253.7	305.3	210.6	254.4	365.2	304.9	290.1	146.8	2396.0
22	959	43.8	68.5	10.2	153.6	200.9	343.9	178.2	299.0	229.4	323.7	513.8	449.8	2816.0
22	960	123.0	29.7	50.0	300.2	264.8	310.6	266.4	281.7	257.4	339.0	221.6	123.0	2568.0
22	961	13.2	51.0	7.6	38.9	173.4	257.4	166.0	298.1	322.1	470.2	328.7	138.3	2264.0
22	962	294.2	31.4	35.3	89.6	360.1	260.7	191.1	301.6	284.2	323.4	357.2	271.7	2800.0
22	963	196.2	11.5	24.4	51.4	300.4	461.6	241.5	239.1	304.4	295.8	441.0	263.1	2828.0
22	964	133.2	56.7	91.5	92.0	276.1	304.4	227.0	284.1	296.0	342.9	309.3	102.2	2515.0
22	965	8.5	38.4	12.3	73.9	328.0	250.3	348.1	359.9	253.9	432.5	408.0	193.4	2706.0
22	966	11.2	21.0	61.8	63.7	451.8	254.4	183.4	296.1	280.3	329.1	338.9	113.8	2405.0
22	967	36.1	36.0	7.4	21.0	245.1	309.9	258.2	224.0	281.1	301.2	373.1	362.3	2454.0
22	968	109.0	39.1	41.5	164.2	397.5	286.2	420.2	339.9	213.6	455.5	383.5	289.4	3138.0
22	969	72.4	29.9	49.6	116.6	348.7	258.2	205.4	359.1	250.2	292.4	200.5	164.2	2346.0
22	970	58.4	22.8	13.3	228.6	259.7	257.4	313.4	236.6	307.6	278.7	208.0	59.4	2244.0
22	971	41.7	12.2	6.3	75.4	445.2	229.7	209.4	295.9	274.5	326.3	275.2	129.0	2320.0
22	972	10.9	44.8	20.7	139.4	325.2	172.9	374.8	437.9	217.9	265.9	262.6	90.0	2364.0
22	973	212.2	15.1	22.6	92.0	375.4	216.4	277.7	244.0	275.1	325.5	316.8	63.2	2436.0
22	974	98.7	19.6	5.3	30.2	316.0	256.2	317.8	282.9	250.5	441.9	399.7	207.4	2627.0
22	975	306.5	8.3	29.2	187.9	390.6	341.5	224.1	199.2	306.9	435.5	259.4	121.6	2810.0
22	976	154.5	34.0	22.2	138.5	205.8	338.9	257.1	238.4	399.3	433.1	244.3	368.6	2835.0
22	977	112.9	66.0	28.8	50.5	185.2	165.3	291.3	269.9	290.1	287.2	190.6	11.8	1950.0
22	978	8.4	3.9	13.8	307.8	312.9	364.9	406.2	306.7	256.3	313.3	505.5	237.4	3036.0
22	979	138.7	28.1	8.7	51.9	233.9	204.4	134.6	209.8	303.2	325.8	250.6	92.5	1983.0
22	980	14.2	44.1	27.2	44.1	257.5	251.5	279.9	172.9	331.4	560.3	825.2	132.6	2940.0
22	981	33.4	84.4	30.0	90.2	293.3	266.6	324.4	313.4	303.1	388.0	313.5	128.1	2567.0
22	982	70.0	10.7	19.6	80.1	296.9	410.9	379.3	277.9	276.1	309.8	387.0	195.0	2714.0
22	983	26.9	14.2	15.3	167.9	292.7	174.6	196.3	256.2	393.6	536.9	457.8	363.8	2897.0
22	984	111.7	14.1	10.8	9.8	228.9	214.6	287.6	415.1	421.4	254.1	350.7	255.6	2576.0
22	985	77.9	7.1	12.8	70.0	262.2	208.5	181.6	401.2	191.5	259.1	172.5	116.0	1961.0

22	986	25.8	17.9	44.8	178.6	297.9	284.2	306.5	339.8	251.4	295.8	400.2	134.2	2578.0
22	987	110.8	12.0	17.2	337.8	347.2	332.2	277.9	268.7	262.8	344.9	502.7	306.0	3121.0
22	988	50.8	37.4	11.6	142.7	388.0	299.5	281.5	307.2	230.5	447.5	433.7	241.6	2872.0
22	989	18.8	35.8	30.9	189.0	215.3	241.2	282.0	315.9	300.7	279.5	301.6	536.4	2747.0
22	990	38.0	10.8	31.2	86.1	207.9	213.8	189.5	231.5	308.0	322.8	295.1	120.0	2055.0
22	991	63.7	20.9	76.1	203.9	383.3	360.0	276.5	190.5	345.8	310.1	237.4	231.9	2700.0
22	992	75.1	17.9	15.6	177.6	275.2	292.9	375.6	339.8	312.0	455.2	451.7	179.8	2970.0
22	993	15.4	15.6	18.3	15.8	216.1	358.1	358.3	333.1	267.7	308.8	331.0	158.9	2397.0
22	994	49.5	19.9	25.6	67.6	329.7	219.4	149.5	303.6	272.4	458.8	225.0	367.5	2491.0
22	995	25.2	1.8	6.4	72.4	258.0	349.6	275.6	319.7	354.1	399.0	390.4	385.4	2837.0
22	996	51.2	17.8	50.3	83.9	350.4	184.4	237.7	230.0	211.3	333.3	280.1	186.8	2216.0
22	997	22.4	13.4	6.5	85.0	307.5	250.8	236.7	315.5	360.8	419.0	399.4	269.9	2687.0
22	998	50.6	13.3	6.5	55.4	206.1	313.4	284.5	414.7	384.8	301.8	524.0	281.1	2837.0
22	999	41.9	12.8	40.7	148.6	285.7	187.8	196.8	235.3	405.6	481.4	340.6	690.6	3070.0
22	1000	88.8	82.5	63.3	153.2	284.1	245.8	267.4	323.8	350.8	255.8	217.4	90.8	2423.0

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MAXIMUM VOLUMES FOR PERIOD 10 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	322.5	114.3	141.0	368.0	451.8	461.6	420.2	437.9	421.4	560.3	831.4	690.6	831.4	2741.5	13665.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
22	8.4	1.8	2.3	5.9	173.4	165.3	109.0	172.9	190.2	207.4	172.5	11.8	1.8	353.1	9770.
STA 22 MONTH 1 MEAN	70.29	VARIANCE	4063.20	STAN. DEV.	63.74										
STA 22 MONTH 2 MEAN	32.73	VARIANCE	604.74	STAN. DEV.	24.59										
STA 22 MONTH 3 MEAN	31.25	VARIANCE	656.61	STAN. DEV.	25.62										
STA 22 MONTH 4 MEAN	103.22	VARIANCE	5901.71	STAN. DEV.	76.82										
STA 22 MONTH 5 MEAN	281.24	VARIANCE	4789.91	STAN. DEV.	69.21										
STA 22 MONTH 6 MEAN	272.93	VARIANCE	4545.94	STAN. DEV.	67.42										
STA 22 MONTH 7 MEAN	255.42	VARIANCE	5438.61	STAN. DEV.	73.75										
STA 22 MONTH 8 MEAN	281.37	VARIANCE	4344.43	STAN. DEV.	65.91										
STA 22 MONTH 9 MEAN	294.79	VARIANCE	3696.68	STAN. DEV.	60.80										
STA 22 MONTH 10 MEAN	358.67	VARIANCE	7025.55	STAN. DEV.	83.82										
STA 22 MONTH 11 MEAN	367.02	VARIANCE	18067.15	STAN. DEV.	134.41										
STA 22 MONTH 12 MEAN	206.14	VARIANCE	19635.59	STAN. DEV.	140.13										

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**INPUT AND OUTPUT FILES
GATUN TOTAL
HEC-4 SYNTHETIC RAINFALL**

A	GATUN LAKE TOTAL BASIN AVERAGE MONTHLY RAINFALL IN MM ESTIMATED BY MWH												
B	1911	1	1	90	1000	100							
H 231911	47	53	38	145	435	267	163	190	257	477	295	48	
H 231912	31	44	15	69	258	269	253	280	304	444	398	187	
H 231913	75	37	11	56	386	280	244	349	347	285	338	159	
H 231914	26	20	27	67	274	339	125	299	440	390	400	160	
H 231915	47	159	42	326	228	346	395	263	285	388	380	201	
H 231916	56	72	44	190	314	251	335	273	280	468	351	122	
H 231917	34	19	11	83	304	297	367	360	334	297	611	227	
H 231918	109	23	31	163	373	277	213	245	301	414	218	51	
H 231919	81	27	19	277	205	231	232	255	338	362	264	174	
H 231920	38	21	31	58	214	262	401	292	259	480	261	55	
H 231921	41	68	25	137	257	304	342	410	401	392	301	248	
H 231922	183	43	17	52	363	292	133	243	280	357	284	245	
H 231923	51	27	13	35	242	319	205	250	302	727	321	96	
H 231924	22	68	27	181	326	323	421	318	366	284	409	145	
H 231925	90	24	12	110	188	333	349	228	320	427	338	112	
H 231926	16	34	19	39	226	428	377	362	359	378	481	304	
H 231927	85	65	50	218	417	375	434	228	307	249	382	314	
H 231928	79	34	104	74	258	334	266	419	308	401	430	203	
H 231929	11	32	50	50	287	272	262	357	244	332	307	126	
H 231930	69	27	21	162	294	181	258	217	283	225	240	122	
H 231931	70	27	116	63	371	304	343	215	314	368	668	141	
H 231932	88	26	31	166	294	320	227	275	222	477	670	219	
H 231933	92	15	39	53	280	270	293	237	290	228	578	273	
H 231934	50	10	30	105	359	242	231	260	356	406	414	284	
H 231935	93	76	23	81	342	318	553	335	320	310	943	360	
H 231936	40	15	22	92	393	190	281	296	347	405	324	83	
H 231937	112	21	21	89	324	250	276	286	386	367	433	590	
H 231938	40	29	24	124	497	443	279	422	311	356	360	432	
H 231939	23	4	26	32	152	286	150	261	352	328	554	249	
H 231940	69	39	25	41	241	205	200	292	271	338	304	61	
H 231941	77	96	49	64	254	305	281	336	325	467	339	116	
H 231942	50	27	77	120	310	297	233	288	342	480	209	394	
H 231943	82	55	56	134	376	356	241	291	353	292	346	416	
H 231944	60	32	22	192	345	259	242	423	243	456	307	356	
H 231945	43	11	15	89	309	255	323	365	254	273	413	349	
H 231946	41	14	26	36	273	232	345	215	352	269	280	263	
H 231947	11	39	25	74	151	311	228	298	340	371	243	193	
H 231948	43	6	12	33	269	210	356	278	248	280	417	83	
H 231949	15	10	13	58	277	416	289	326	307	375	494	198	
H 231950	19	42	18	108	281	381	423	313	265	255	513	400	
H 231951	47	129	15	167	303	189	242	285	310	358	311	213	
H 231952	58	18	4	113	311	283	274	255	304	454	234	375	
H 231953	187	27	37	94	333	168	279	251	230	401	400	161	
H 231954	33	43	24	110	364	361	411	353	363	303	440	200	
H 231955	250	28	46	25	257	322	276	385	269	277	523	241	
H 231956	202	59	92	106	418	230	399	259	278	410	361	125	
H 231957	22	18	7	14	259	211	212	267	252	391	345	151	
H 231958	115	75	72	67	282	273	303	262	278	316	239	129	
H 231959	18	5	6	72	204	298	222	271	345	312	268	523	

H 231960	112	20	95	250	368	292	323	266	255	382	353	491
H 231961	32	10	17	129	212	412	219	324	361	368	281	174
H 231962	63	18	5	6	72	204	298	222	271	345	312	268
H 231963	523	112	20	95	250	368	292	323	266	255	382	353
H 231964	491	32	10	17	129	212	412	219	324	361	368	281
H 231965	174	63	21	21	87	338	227	275	302	291	303	323
H 231966	282	25	31	168	327	264	313	347	349	334	577	395
H 231967	49	25	38	168	240	406	329	278	285	347	401	140
H 231968	6	80	61	35	310	309	224	331	252	413	317	79
H 231969	59	20	37	114	283	176	275	347	360	296	333	291
H 231970	275	67	66	215	367	213	305	337	285	315	458	419
H 231971	123	45	83	16	365	301	307	330	288	323	316	36
H 231972	207	41	28	224	243	309	145	200	312	344	220	115
H 231973	55	19	5	31	255	287	278	246	307	366	478	148
H 231974	16	65	27	43	188	316	288	218	295	448	376	98
H 231975	21	25	39	31	320	306	320	350	287	517	357	359
H 231976	35	20	15	121	215	215	84	211	349	313	202	58
H 231977	51	12	12	32	251	200	180	376	273	421	311	109
H 231978	41	39	63	269	298	295	315	321	263	310	305	78
H 231979	9	26	14	239	229	266	311	277	218	291	318	206
H 231980	124	67	12	44	287	287	242	298	195	294	315	197
H 231981	195	41	78	439	346	348	325	296	185	303	438	330
H 231982	125	18	13	109	223	224	233	197	255	402	148	38
H 231983	24	10	14	101	273	240	195	224	350	353	329	328
H 231984	66	66	13	41	236	287	224	411	285	401	364	59
H 231985	66	27	36	29	232	323	246	234	329	256	229	273
H 231986	44	11	40	190	210	277	156	216	289	461	232	64
H 231987	28	42	7	283	403	256	317	317	435	466	357	189
H 231988	12	58	19	45	309	280	342	355	356	426	315	153
H 231989	34	82	23	25	178	216	304	304	220	356	367	188
H 231990	59	8	45	64	339	170	269	288	383	494	287	212
H 231991	26	30	85	78	357	246	259	216	362	278	380	94
H 231992	28	14	14	169	413	340	262	338	330	295	274	140
H 231993	92	18	112	200	262	395	223	208	421	390	342	157
H 231994	48	17	64	42	317	337	194	294	251	343	437	60
H 231995	109	16	29	123	322	388	350	322	267	307	382	285
H 231996	353	101	98	114	365	330	231	294	299	320	453	188
H 231997	26	33	7	45	257	240	170	158	250	226	238	34
H 231998	18	21	29	176	312	304	318	308	292	288	301	364
H 231999	78	92	95	173	262	396	279	395	332	292	435	617
H 232000	126	28	19	106	281	399	220	335	259	451	226	474

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GATUN LAKE TOTAL
 BASIN AVERAGE MONTHLY RAINFALL IN MM
 ESTIMATED BY MWH

IYRA	IMNTH	IANAL	MXRCS	NYRG	NYMXG	NPASS	IPCHQ	IPCHS	NSTA	NCOMB	NTNDM	NCSTY	IGNRL	NPROJ	IYRPJ	MTHPJ	LYRPJ
1911		1	90	1000	100	0	0	0	0	0	0	0	0	0	0	0	0

MAXIMUM VOLUMES OF RECORDED FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	523.0	159.0	116.0	439.0	497.0	443.0	553.0	423.0	440.0	727.0	943.0	617.0	943.0	2821.0	14665.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	6.0	4.0	4.0	6.0	72.0	168.0	84.0	158.0	185.0	225.0	148.0	34.0	4.0	335.0	9888.

STA AVERAGE MONTHLY FLOW IS
 23 221.88

FREQUENCY STATISTICS

STA	ITEM	1	2	3	4	5	6	7	8	9	10	11	12
23	MEAN	1.756	1.481	1.424	1.925	2.445	2.457	2.430	2.460	2.482	2.553	2.546	2.260
	STD DEV	0.380	0.314	0.330	0.342	0.133	0.097	0.130	0.088	0.072	0.092	0.128	0.291
	SKEW	0.191	-0.142	-0.048	-0.458	-1.602	-0.296	-0.799	-0.243	-0.188	0.254	0.330	-0.480
	INCRMT	0.84	0.38	0.35	1.09	2.87	2.90	2.78	2.92	3.04	3.62	3.64	2.19
	YEARS	90	90	90	90	90	90	90	90	90	90	90	90

1

RAW CORRELATION COEFFICIENTS FOR MONTH 1

STA	23	WITH CURRENT MONTH
23	1.000	WITH PRECEDING MONTH AT ABOVE STATION
23	0.284	

RAW CORRELATION COEFFICIENTS FOR MONTH 2

STA	23	WITH CURRENT MONTH
23	1.000	WITH PRECEDING MONTH AT ABOVE STATION
23	0.215	

RAW CORRELATION COEFFICIENTS FOR MONTH 3

STA	23	WITH CURRENT MONTH
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23 1.000 WITH PRECEDING MONTH AT ABOVE STATION
23 0.286

RAW CORRELATION COEFFICIENTS FOR MONTH 4

STA 23 WITH CURRENT MONTH
23 1.000 WITH PRECEDING MONTH AT ABOVE STATION
23 0.278

RAW CORRELATION COEFFICIENTS FOR MONTH 5

STA 23 WITH CURRENT MONTH
23 1.000 WITH PRECEDING MONTH AT ABOVE STATION
23 0.337

RAW CORRELATION COEFFICIENTS FOR MONTH 6

STA 23 WITH CURRENT MONTH
23 1.000 WITH PRECEDING MONTH AT ABOVE STATION
23 0.107

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RAW CORRELATION COEFFICIENTS FOR MONTH 7

STA 23 WITH CURRENT MONTH
23 1.000 WITH PRECEDING MONTH AT ABOVE STATION
23 0.152

RAW CORRELATION COEFFICIENTS FOR MONTH 8

STA 23 WITH CURRENT MONTH
23 1.000 WITH PRECEDING MONTH AT ABOVE STATION
23 0.241

RAW CORRELATION COEFFICIENTS FOR MONTH 9

STA 23 WITH CURRENT MONTH

23 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 23 0.035

RAW CORRELATION COEFFICIENTS FOR MONTH 10

STA 23
 WITH CURRENT MONTH
 23 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 23 0.075

RAW CORRELATION COEFFICIENTS FOR MONTH 11

STA 23
 WITH CURRENT MONTH
 23 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 23 -0.146

RAW CORRELATION COEFFICIENTS FOR MONTH 12

STA 23
 WITH CURRENT MONTH
 23 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 23 0.322

¹
 1. RECORDED AND RECONSTITUTED FLOWS

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	1911	47.00	53.00	38.00	145.00	435.00	267.00	163.00	190.00	257.00	477.00	295.00	48.00	2415
23	1912	31.00	44.00	15.00	69.00	258.00	269.00	253.00	280.00	304.00	444.00	398.00	187.00	2552
23	1913	75.00	37.00	11.00	56.00	386.00	280.00	244.00	349.00	347.00	285.00	338.00	159.00	2567
23	1914	26.00	20.00	27.00	67.00	274.00	339.00	125.00	299.00	440.00	390.00	400.00	160.00	2567
23	1915	47.00	159.00	42.00	326.00	228.00	346.00	395.00	263.00	285.00	388.00	380.00	201.00	3060
23	1916	56.00	72.00	44.00	190.00	314.00	251.00	335.00	273.00	280.00	468.00	351.00	122.00	2756
23	1917	34.00	19.00	11.00	83.00	304.00	297.00	367.00	360.00	334.00	297.00	611.00	227.00	2944
23	1918	109.00	23.00	31.00	163.00	373.00	277.00	213.00	245.00	301.00	414.00	218.00	51.00	2418
23	1919	81.00	27.00	19.00	277.00	205.00	231.00	232.00	255.00	338.00	362.00	264.00	174.00	2465
23	1920	38.00	21.00	31.00	58.00	214.00	262.00	401.00	292.00	259.00	480.00	261.00	55.00	2372
23	1921	41.00	68.00	25.00	137.00	257.00	304.00	342.00	410.00	401.00	392.00	301.00	248.00	2926
23	1922	183.00	43.00	17.00	52.00	363.00	292.00	133.00	243.00	280.00	357.00	284.00	245.00	2492
23	1923	51.00	27.00	13.00	35.00	242.00	319.00	205.00	250.00	302.00	727.00	321.00	96.00	2588
23	1924	22.00	68.00	27.00	181.00	326.00	323.00	421.00	318.00	366.00	284.00	409.00	145.00	2890
23	1925	90.00	24.00	12.00	110.00	188.00	333.00	349.00	228.00	320.00	427.00	338.00	112.00	2531
23	1926	16.00	34.00	19.00	39.00	226.00	428.00	377.00	362.00	359.00	378.00	481.00	304.00	3023
23	1927	85.00	65.00	50.00	218.00	417.00	375.00	434.00	228.00	307.00	249.00	382.00	314.00	3124
23	1928	79.00	34.00	104.00	74.00	258.00	334.00	266.00	419.00	308.00	401.00	430.00	203.00	2910
23	1929	11.00	32.00	50.00	50.00	287.00	272.00	262.00	357.00	244.00	332.00	307.00	126.00	2330
23	1930	69.00	27.00	21.00	162.00	294.00	181.00	258.00	217.00	283.00	225.00	240.00	122.00	2099

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23	1931	70.00	27.00	116.00	63.00	371.00	304.00	343.00	215.00	314.00	368.00	668.00	141.00	3000
23	1932	88.00	26.00	31.00	166.00	294.00	320.00	227.00	275.00	222.00	477.00	670.00	219.00	3015
23	1933	92.00	15.00	39.00	53.00	280.00	270.00	293.00	237.00	290.00	228.00	578.00	273.00	2648
23	1934	50.00	10.00	30.00	105.00	359.00	242.00	231.00	260.00	356.00	406.00	414.00	284.00	2747
23	1935	93.00	76.00	23.00	81.00	342.00	318.00	553.00	335.00	320.00	310.00	943.00	360.00	3754
23	1936	40.00	15.00	22.00	92.00	393.00	190.00	281.00	296.00	347.00	405.00	324.00	83.00	2488
23	1937	112.00	21.00	21.00	89.00	324.00	250.00	276.00	286.00	386.00	367.00	433.00	590.00	3155
23	1938	40.00	29.00	24.00	124.00	497.00	443.00	279.00	422.00	311.00	356.00	360.00	432.00	3317
23	1939	23.00	4.00	26.00	32.00	152.00	286.00	150.00	261.00	352.00	328.00	554.00	249.00	2417
23	1940	69.00	39.00	25.00	41.00	241.00	205.00	200.00	292.00	271.00	338.00	304.00	61.00	2086
23	1941	77.00	96.00	49.00	64.00	254.00	305.00	281.00	336.00	325.00	467.00	339.00	116.00	2709
23	1942	50.00	27.00	77.00	120.00	310.00	297.00	233.00	288.00	342.00	480.00	209.00	394.00	2827
23	1943	82.00	55.00	56.00	134.00	376.00	356.00	241.00	291.00	353.00	292.00	346.00	416.00	2998
23	1944	60.00	32.00	22.00	192.00	345.00	259.00	242.00	423.00	243.00	456.00	307.00	356.00	2937
23	1945	43.00	11.00	15.00	89.00	309.00	255.00	323.00	365.00	254.00	273.00	413.00	349.00	2699
23	1946	41.00	14.00	26.00	36.00	273.00	232.00	345.00	215.00	352.00	269.00	280.00	263.00	2346
23	1947	11.00	39.00	25.00	74.00	151.00	311.00	228.00	298.00	340.00	371.00	243.00	193.00	2284
23	1948	43.00	6.00	12.00	33.00	269.00	210.00	356.00	278.00	248.00	280.00	417.00	83.00	2235
23	1949	15.00	10.00	13.00	58.00	277.00	416.00	289.00	326.00	307.00	375.00	494.00	198.00	2778
23	1950	19.00	42.00	18.00	108.00	281.00	381.00	423.00	313.00	265.00	255.00	513.00	400.00	3018
23	1951	47.00	129.00	15.00	167.00	303.00	189.00	242.00	285.00	310.00	358.00	311.00	213.00	2569
23	1952	58.00	18.00	4.00	113.00	311.00	283.00	274.00	255.00	304.00	454.00	234.00	375.00	2683
23	1953	187.00	27.00	37.00	94.00	333.00	168.00	279.00	251.00	230.00	401.00	400.00	161.00	2568
23	1954	33.00	43.00	24.00	110.00	364.00	361.00	411.00	353.00	363.00	303.00	440.00	200.00	3005
23	1955	250.00	28.00	46.00	25.00	257.00	322.00	276.00	385.00	269.00	277.00	523.00	241.00	2899
23	1956	202.00	59.00	92.00	106.00	418.00	230.00	399.00	259.00	278.00	410.00	361.00	125.00	2939
23	1957	22.00	18.00	7.00	14.00	259.00	211.00	212.00	267.00	252.00	391.00	345.00	151.00	2149
23	1958	115.00	75.00	72.00	67.00	282.00	273.00	303.00	262.00	278.00	316.00	239.00	129.00	2411
23	1959	18.00	5.00	6.00	72.00	204.00	298.00	222.00	271.00	345.00	312.00	268.00	523.00	2544
23	1960	112.00	20.00	95.00	250.00	368.00	292.00	323.00	266.00	255.00	382.00	353.00	491.00	3207
23	1961	32.00	10.00	17.00	129.00	212.00	412.00	219.00	324.00	361.00	368.00	281.00	174.00	2539
23	1962	63.00	18.00	5.00	6.00	72.00	204.00	298.00	222.00	271.00	345.00	312.00	268.00	2084
23	1963	523.00	112.00	20.00	95.00	250.00	368.00	292.00	323.00	266.00	255.00	382.00	353.00	3239
23	1964	491.00	32.00	10.00	17.00	129.00	212.00	412.00	219.00	324.00	361.00	368.00	281.00	2856
23	1965	174.00	63.00	21.00	21.00	87.00	338.00	227.00	275.00	302.00	291.00	303.00	323.00	2425
23	1966	282.00	25.00	31.00	168.00	327.00	264.00	313.00	347.00	349.00	334.00	577.00	395.00	3412
23	1967	49.00	25.00	38.00	168.00	240.00	406.00	329.00	278.00	285.00	347.00	401.00	140.00	2706
23	1968	6.00	80.00	61.00	35.00	310.00	309.00	224.00	331.00	252.00	413.00	317.00	79.00	2417
23	1969	59.00	20.00	37.00	114.00	283.00	176.00	275.00	347.00	360.00	296.00	333.00	291.00	2591
23	1970	275.00	67.00	66.00	215.00	367.00	213.00	305.00	337.00	285.00	315.00	458.00	419.00	3322
23	1971	123.00	45.00	83.00	16.00	365.00	301.00	307.00	330.00	288.00	323.00	316.00	36.00	2533
23	1972	207.00	41.00	28.00	224.00	243.00	309.00	145.00	200.00	312.00	344.00	220.00	115.00	2388
23	1973	55.00	19.00	5.00	31.00	255.00	287.00	278.00	246.00	307.00	366.00	478.00	148.00	2475
23	1974	16.00	65.00	27.00	43.00	188.00	316.00	288.00	218.00	295.00	448.00	376.00	98.00	2378
23	1975	21.00	25.00	39.00	31.00	320.00	306.00	320.00	350.00	287.00	517.00	357.00	359.00	2932
23	1976	35.00	20.00	15.00	121.00	215.00	215.00	84.00	211.00	349.00	313.00	202.00	58.00	1838
23	1977	51.00	12.00	12.00	32.00	251.00	200.00	180.00	376.00	273.00	421.00	311.00	109.00	2228
23	1978	41.00	39.00	63.00	269.00	298.00	295.00	315.00	321.00	263.00	310.00	305.00	78.00	2597
23	1979	9.00	26.00	14.00	239.00	229.00	266.00	311.00	277.00	218.00	291.00	318.00	206.00	2404
23	1980	124.00	67.00	12.00	44.00	287.00	287.00	242.00	298.00	195.00	294.00	315.00	197.00	2362
23	1981	195.00	41.00	78.00	439.00	346.00	348.00	325.00	296.00	185.00	303.00	438.00	330.00	3324
23	1982	125.00	18.00	13.00	109.00	223.00	224.00	233.00	197.00	255.00	402.00	148.00	38.00	1985
23	1983	24.00	10.00	14.00	101.00	273.00	240.00	195.00	224.00	350.00	353.00	329.00	328.00	2441
23	1984	66.00	66.00	13.00	41.00	236.00	287.00	224.00	411.00	285.00	401.00	364.00	59.00	2453

23	1985	66.00	27.00	36.00	29.00	232.00	323.00	246.00	234.00	329.00	256.00	229.00	273.00	2280
23	1986	44.00	11.00	40.00	190.00	210.00	277.00	156.00	216.00	289.00	461.00	232.00	64.00	2190
23	1987	28.00	42.00	7.00	283.00	403.00	256.00	317.00	317.00	435.00	466.00	357.00	189.00	3100
23	1988	12.00	58.00	19.00	45.00	309.00	280.00	342.00	355.00	356.00	426.00	315.00	153.00	2670
23	1989	34.00	82.00	23.00	25.00	178.00	216.00	304.00	304.00	220.00	356.00	367.00	188.00	2297
23	1990	59.00	8.00	45.00	64.00	339.00	170.00	269.00	288.00	383.00	494.00	287.00	212.00	2618
23	1991	26.00	30.00	85.00	78.00	357.00	246.00	259.00	216.00	362.00	278.00	380.00	94.00	2411
23	1992	28.00	14.00	14.00	169.00	413.00	340.00	262.00	338.00	330.00	295.00	274.00	140.00	2617
23	1993	92.00	18.00	112.00	200.00	262.00	395.00	223.00	208.00	421.00	390.00	342.00	157.00	2820
23	1994	48.00	17.00	64.00	42.00	317.00	337.00	194.00	294.00	251.00	343.00	437.00	60.00	2404
23	1995	109.00	16.00	29.00	123.00	322.00	388.00	350.00	322.00	267.00	307.00	382.00	285.00	2900
23	1996	353.00	101.00	98.00	114.00	365.00	330.00	231.00	294.00	299.00	320.00	453.00	188.00	3146
23	1997	26.00	33.00	7.00	45.00	257.00	240.00	170.00	158.00	250.00	226.00	238.00	34.00	1684
23	1998	18.00	21.00	29.00	176.00	312.00	304.00	318.00	308.00	292.00	288.00	301.00	364.00	2731
23	1999	78.00	92.00	95.00	173.00	262.00	396.00	279.00	395.00	332.00	292.00	435.00	617.00	3446
23	2000	126.00	28.00	19.00	106.00	281.00	399.00	220.00	335.00	259.00	451.00	226.00	474.00	2924

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 1

STA	23	MONTH	1	MEAN-0.005	STD DEVO.061
STA	23	MONTH	2	MEAN 0.002	STD DEVO.057
STA	23	MONTH	3	MEAN 0.006	STD DEVO.061
STA	23	MONTH	4	MEAN 0.011	STD DEVO.052
STA	23	MONTH	5	MEAN-0.004	STD DEVO.066
STA	23	MONTH	6	MEAN 0.000	STD DEVO.068
STA	23	MONTH	7	MEAN-0.009	STD DEVO.066
STA	23	MONTH	8	MEAN-0.004	STD DEVO.063
STA	23	MONTH	9	MEAN-0.004	STD DEVO.064
STA	23	MONTH	10	MEAN-0.006	STD DEVO.057
STA	23	MONTH	11	MEAN-0.002	STD DEVO.065
STA	23	MONTH	12	MEAN 0.001	STD DEVO.064

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	1	174.7	15.4	5.6	178.8	393.6	336.8	206.5	314.2	331.3	350.0	561.1	277.0	3145.0
23	2	45.2	49.0	61.9	68.8	345.7	269.4	239.8	325.9	359.5	395.1	312.0	167.7	2640.0
23	3	46.3	13.1	11.9	237.0	405.3	288.1	342.5	304.4	328.6	341.7	312.9	212.2	2843.0
23	4	8.8	24.9	29.0	59.4	319.4	298.3	120.4	265.9	212.0	277.2	361.6	152.8	2129.0
23	5	60.5	38.0	61.4	92.2	379.3	405.0	330.8	336.7	288.9	356.8	260.6	132.5	2743.0
23	6	43.5	15.7	38.4	220.8	285.6	180.4	222.5	278.8	289.1	413.8	433.7	373.8	2796.0
23	7	48.5	3.8	2.8	23.9	264.1	233.6	211.1	380.6	388.8	616.7	512.0	154.9	2843.0
23	8	121.8	66.0	147.9	177.8	153.9	266.0	230.1	268.0	251.7	365.5	449.9	175.3	2675.0
23	9	84.9	41.5	10.6	42.1	260.0	232.2	311.9	317.4	399.2	327.0	402.7	404.8	2834.0
23	10	77.5	13.4	14.9	48.5	197.6	390.6	300.7	258.6	322.4	297.3	385.0	105.3	2412.0
23	11	43.0	44.8	83.0	291.6	363.2	245.4	307.4	220.2	330.5	306.8	391.7	585.3	3212.0
23	12	93.9	22.4	55.4	380.1	237.7	146.3	179.1	288.2	298.3	452.6	579.3	131.6	2864.0
23	13	16.9	8.1	17.6	172.1	274.7	343.1	334.7	315.3	283.3	274.7	307.2	210.7	2559.0
23	14	93.8	31.6	15.1	148.4	309.5	360.8	306.8	227.6	357.3	367.2	314.3	137.3	2670.0
23	15	34.1	14.7	43.7	87.2	370.0	316.3	182.8	211.5	328.3	492.0	279.4	102.2	2462.0
23	16	191.1	95.6	52.1	124.3	390.1	279.3	297.2	233.0	260.7	453.4	416.2	330.4	3122.0
23	17	158.3	22.0	32.4	19.4	216.6	422.1	300.1	286.3	354.7	380.0	287.6	56.8	2536.0
23	18	50.7	34.4	12.3	116.0	351.2	237.3	196.9	297.3	401.8	412.7	274.9	512.9	2898.0
23	19	78.1	34.9	23.0	229.6	370.1	349.8	208.5	179.6	288.6	345.9	290.6	33.8	2435.0
23	20	36.9	27.6	18.9	126.8	342.1	312.3	148.0	331.6	360.5	376.5	199.4	217.6	2499.0
23	21	52.8	72.7	15.4	63.0	260.5	268.8	129.9	280.2	303.0	349.4	590.1	184.6	2571.0
23	22	46.8	40.0	3.2	37.3	337.3	319.3	192.5	365.9	373.0	495.3	445.2	295.1	2949.0

23	23	55.0	27.4	53.7	199.1	352.9	219.0	312.3	292.8	401.5	264.6	183.7	203.1	2566.0
23	24	75.2	86.0	94.7	21.2	163.3	171.0	312.7	289.6	331.8	427.0	216.5	69.8	2259.0
23	25	35.0	29.4	18.5	31.6	306.2	212.9	217.6	195.4	332.1	272.5	336.1	163.2	2150.0
23	26	19.1	12.0	35.4	111.4	334.8	204.3	191.8	281.3	303.2	392.3	250.1	180.5	2315.0
23	27	22.3	21.3	13.5	25.2	320.6	221.9	331.9	373.0	271.7	354.0	287.8	209.1	2453.0
23	28	61.6	60.6	14.7	54.5	267.7	222.9	208.3	209.2	194.1	259.0	318.7	142.5	2016.0
23	29	105.7	55.8	15.3	75.3	371.3	365.4	151.4	266.4	272.3	385.4	331.3	84.7	2478.0
23	30	28.3	23.2	26.3	164.8	316.5	305.0	380.7	241.1	346.6	453.6	289.3	265.6	2841.0
23	31	123.5	47.9	26.4	31.7	26.1	151.4	308.0	241.8	298.4	286.0	594.6	305.8	2442.0
23	32	15.4	31.0	60.1	22.9	97.7	210.4	270.1	291.3	315.5	319.3	405.6	360.0	2399.0
23	33	224.2	48.8	31.6	451.8	377.2	258.5	202.5	200.5	252.4	403.3	347.7	344.0	3142.0
23	34	52.1	68.5	37.3	190.6	170.4	323.3	345.2	318.7	352.5	401.0	466.8	153.8	2879.0
23	35	123.0	35.5	84.6	96.2	351.7	437.0	383.3	387.3	236.0	299.1	406.2	108.4	2947.0
23	36	88.4	84.0	45.0	156.2	244.2	261.7	158.6	285.7	280.7	281.9	601.0	143.5	2632.0
23	37	28.6	27.7	23.6	101.7	310.0	260.6	133.6	245.3	371.5	385.1	786.3	265.7	2942.0
23	38	121.5	17.6	12.1	11.9	332.5	274.2	246.6	291.9	291.4	474.9	329.7	456.6	2861.0
23	39	21.1	44.9	59.4	38.2	259.7	286.6	259.1	279.2	228.2	236.7	215.8	113.8	2043.0
23	40	17.5	28.5	10.7	154.0	335.2	301.9	289.6	394.5	351.6	429.2	321.2	222.2	2857.0
23	41	47.2	5.2	5.7	263.8	375.5	400.5	309.3	362.8	285.9	419.8	404.5	53.2	2934.0
23	42	61.9	35.4	110.7	62.3	273.8	371.9	200.2	366.4	271.4	443.8	480.9	189.5	2868.0
23	43	104.1	18.7	14.4	91.2	290.1	262.7	225.9	297.4	333.1	446.7	540.9	166.0	2791.0
23	44	306.5	47.2	29.9	61.6	282.0	288.8	319.6	300.1	299.8	460.1	410.7	313.9	3122.0
23	45	36.1	20.1	37.5	149.6	352.3	328.8	168.0	204.1	259.9	504.6	363.4	170.7	2595.0
23	46	87.7	23.7	17.9	42.9	368.9	341.3	307.9	251.4	370.5	464.1	482.3	219.6	2978.0
23	47	25.5	17.1	26.4	67.2	299.6	324.9	246.7	205.5	286.7	316.2	236.1	70.2	2123.0
23	48	266.2	10.1	11.5	37.4	296.5	252.7	287.8	227.5	291.2	275.3	410.3	211.3	2576.0
23	49	33.9	17.9	9.7	112.6	383.4	263.2	257.4	269.1	241.2	305.4	328.5	354.7	2576.0
23	50	54.1	69.5	40.3	72.4	265.7	218.7	96.7	266.8	222.6	274.3	492.8	553.0	2628.0
23	51	759.7	70.0	11.4	243.2	273.0	293.5	288.3	246.6	356.5	257.7	291.5	103.2	3194.0
23	52	54.6	9.3	42.1	26.3	289.5	381.4	328.2	260.8	262.0	407.6	314.2	111.6	2487.0
23	53	54.2	44.2	43.7	71.7	302.0	215.1	407.7	392.5	290.7	248.8	284.9	302.6	2660.0
23	54	133.5	29.4	32.7	80.0	308.2	194.9	246.5	277.0	282.5	398.4	237.2	103.6	2323.0
23	55	147.3	142.1	24.7	118.8	247.9	298.1	333.9	260.4	306.1	335.2	192.8	189.3	2596.0
23	56	99.7	12.2	41.1	61.6	183.8	243.6	306.7	191.0	348.1	218.6	291.6	189.8	2190.0
23	57	20.7	81.2	39.7	121.9	181.2	238.6	180.7	348.2	230.0	306.9	270.5	130.8	2151.0
23	58	51.3	53.1	61.5	67.1	287.1	282.7	282.1	381.2	252.8	319.0	489.4	240.8	2768.0
23	59	48.0	76.7	20.7	221.1	362.8	422.6	429.0	296.0	249.2	319.2	526.4	342.8	3315.0
23	60	72.5	88.7	34.9	9.0	216.5	370.5	207.8	255.2	288.7	322.5	446.1	119.4	2433.0
23	61	8.9	8.6	50.6	130.5	313.6	361.4	353.3	274.2	281.2	395.3	308.1	650.8	3136.0
23	62	34.8	32.8	30.2	150.3	204.2	255.5	257.7	238.4	332.7	528.9	213.9	33.2	2313.0
23	63	48.8	24.2	83.2	88.0	272.6	323.7	249.7	189.0	298.0	351.6	267.4	308.5	2505.0
23	64	42.4	54.0	75.8	157.7	345.4	251.0	228.6	320.4	296.8	357.3	328.9	110.3	2568.0
23	65	43.1	15.2	50.2	57.3	230.5	343.2	287.7	245.7	284.4	474.6	329.1	161.4	2521.0
23	66	153.7	35.7	37.2	125.6	125.9	271.7	409.2	357.0	282.4	449.9	351.9	121.4	2722.0
23	67	15.5	14.2	44.8	54.9	377.2	275.2	241.3	301.4	353.0	467.3	369.6	48.8	2562.0
23	68	8.0	7.6	13.2	119.2	385.0	347.7	301.6	190.7	285.0	360.8	287.5	199.0	2506.0
23	69	27.2	45.5	8.3	252.2	372.5	291.1	272.0	408.4	428.9	306.0	650.2	689.9	3752.0
23	70	221.2	133.5	8.9	35.3	244.6	207.8	210.5	195.2	255.2	303.6	335.3	173.1	2325.0
23	71	77.4	54.3	58.1	319.1	324.4	285.6	447.8	375.1	280.8	287.4	276.5	218.2	3004.0
23	72	45.3	6.5	37.0	131.0	373.0	400.1	296.8	280.2	262.1	305.2	333.9	87.2	2558.0
23	73	217.5	28.1	28.3	104.3	340.4	257.5	327.2	390.4	324.4	304.2	398.9	206.8	2926.0
23	74	402.2	60.4	35.8	96.0	275.9	256.9	319.7	210.1	274.9	321.5	222.1	261.3	2736.0
23	75	57.9	43.9	30.5	23.5	325.0	324.4	423.5	324.1	239.4	390.1	323.1	245.8	2750.0
23	76	92.7	12.9	28.9	104.4	302.3	350.2	244.2	300.7	322.0	252.7	587.5	597.0	3195.0

23	77	92.9	33.8	25.2	284.6	371.8	197.5	275.2	308.1	346.7	554.1	395.8	123.1	3010.0
23	78	24.3	27.2	61.1	115.8	316.9	279.1	410.8	325.2	333.1	282.8	495.9	226.5	2899.0
23	79	36.6	39.2	18.3	120.8	277.7	256.4	275.7	380.1	431.1	467.8	491.1	310.8	3106.0
23	80	37.9	33.6	23.1	37.4	259.8	280.7	365.4	324.8	278.8	230.1	447.1	479.4	2798.0
23	81	13.3	31.6	7.1	154.6	199.8	312.3	320.4	292.0	319.5	302.4	271.3	49.0	2273.0
23	82	19.8	33.4	34.1	46.7	260.8	248.0	324.1	286.5	316.7	354.2	341.5	106.2	2372.0
23	83	43.2	11.3	42.2	42.5	296.4	225.1	310.2	324.0	229.1	373.2	286.9	266.3	2448.0
23	84	11.6	14.3	61.9	72.2	227.3	299.3	298.5	331.8	337.0	351.8	397.1	235.5	2638.0
23	85	36.7	100.3	46.2	55.5	330.4	293.5	402.4	301.6	254.3	301.5	463.0	430.7	3015.0
23	86	95.2	75.2	29.8	148.5	298.3	432.2	415.9	342.0	290.1	373.4	266.9	71.5	2837.0
23	87	25.8	49.8	33.3	53.1	319.9	351.2	366.2	316.4	343.4	297.6	266.5	59.5	2481.0
23	88	54.5	25.3	28.7	45.4	264.3	382.1	218.6	168.4	191.3	319.4	288.2	245.8	2230.0
23	89	168.7	32.9	3.0	34.6	205.1	258.8	267.5	306.8	327.3	310.2	559.6	324.4	2800.0
23	90	115.2	34.9	25.6	57.1	262.5	345.2	384.1	322.4	311.7	399.1	252.0	51.7	2562.0
23	91	27.7	59.4	12.4	60.2	194.5	213.1	254.2	391.6	355.2	248.3	277.8	252.1	2346.0
23	92	89.1	24.3	18.6	116.8	377.1	336.6	227.6	285.5	257.1	291.4	378.3	212.2	2614.0
23	93	13.5	8.4	28.5	101.8	330.7	314.4	250.2	291.7	307.4	333.3	259.7	134.8	2374.0
23	94	73.6	40.6	77.9	31.6	174.1	361.7	243.0	234.7	237.3	316.1	331.4	412.3	2535.0
23	95	170.7	89.3	24.1	91.4	167.1	292.4	414.7	356.2	249.7	414.6	362.4	241.5	2873.0
23	96	443.5	27.9	16.6	52.9	277.8	264.9	314.4	349.0	239.6	340.3	302.7	364.7	2996.0
23	97	33.4	37.3	16.2	19.6	225.5	229.5	346.2	287.1	413.1	429.3	347.9	238.0	2622.0
23	98	25.3	16.9	5.6	147.4	317.6	350.1	307.7	300.8	367.6	372.5	245.7	120.3	2579.0
23	99	27.1	6.3	33.5	283.1	288.8	239.2	338.3	447.9	339.0	493.8	217.0	20.8	2734.0
23	100	22.4	30.8	26.7	31.2	182.0	301.8	147.6	260.5	288.5	321.8	309.9	86.7	2011.0

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MAXIMUM VOLUMES FOR PERIOD 1 OF 100 YEARS OF SYNTHETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	759.7	142.1	147.9	451.8	405.3	437.0	447.8	447.9	431.1	616.7	786.3	689.9	786.3	2755.3	14168.

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MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	8.0	3.8	2.8	9.0	26.1	146.3	96.7	168.4	191.3	218.6	183.7	20.8	2.8	313.8	9471.
STA 23 MONTH 1 MEAN	84.67	VARIANCE	10578.96	STAN. DEV.	102.85										
STA 23 MONTH 2 MEAN	37.83	VARIANCE	739.93	STAN. DEV.	27.20										
STA 23 MONTH 3 MEAN	33.70	VARIANCE	619.88	STAN. DEV.	24.90										
STA 23 MONTH 4 MEAN	109.88	VARIANCE	7183.41	STAN. DEV.	84.75										
STA 23 MONTH 5 MEAN	286.62	VARIANCE	5983.28	STAN. DEV.	77.35										
STA 23 MONTH 6 MEAN	287.50	VARIANCE	4922.77	STAN. DEV.	70.16										
STA 23 MONTH 7 MEAN	276.36	VARIANCE	6535.68	STAN. DEV.	80.84										
STA 23 MONTH 8 MEAN	289.08	VARIANCE	4290.49	STAN. DEV.	65.50										
STA 23 MONTH 9 MEAN	301.49	VARIANCE	3516.53	STAN. DEV.	59.30										
STA 23 MONTH 10 MEAN	358.30	VARIANCE	7453.08	STAN. DEV.	86.33										
STA 23 MONTH 11 MEAN	360.80	VARIANCE	14442.44	STAN. DEV.	120.18										
STA 23 MONTH 12 MEAN	219.73	VARIANCE	20030.43	STAN. DEV.	141.53										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 2

STA 23 MONTH 1	MEAN 0.005	STD DEVO.064
STA 23 MONTH 2	MEAN 0.009	STD DEVO.053
STA 23 MONTH 3	MEAN-0.007	STD DEVO.063
STA 23 MONTH 4	MEAN-0.013	STD DEVO.067
STA 23 MONTH 5	MEAN 0.002	STD DEVO.064
STA 23 MONTH 6	MEAN-0.002	STD DEVO.068
STA 23 MONTH 7	MEAN-0.001	STD DEVO.065

STA 23 MONTH 8 MEAN 0.003 STD DEVO 0.059
 STA 23 MONTH 9 MEAN -0.001 STD DEVO 0.066
 STA 23 MONTH 10 MEAN 0.003 STD DEVO 0.069
 STA 23 MONTH 11 MEAN 0.003 STD DEVO 0.060
 STA 23 MONTH 12 MEAN 0.011 STD DEVO 0.073

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	101	12.6	45.4	50.7	66.4	337.3	206.1	314.8	240.3	335.5	355.1	535.2	243.9	2742.0
23	102	114.5	35.6	9.9	83.3	391.1	444.2	264.6	239.3	289.2	362.3	451.7	217.0	2902.0
23	103	72.9	12.9	36.6	243.4	224.5	186.9	246.0	183.3	332.4	452.3	230.7	266.2	2488.0
23	104	176.6	60.2	21.3	81.1	324.5	245.3	366.6	343.9	236.0	307.2	443.2	283.3	2888.0
23	105	78.9	15.1	23.8	36.7	134.1	239.7	179.0	263.3	255.5	303.2	607.8	538.8	2677.0
23	106	86.3	97.8	51.4	126.9	360.8	264.9	194.7	312.6	257.1	268.0	369.7	253.4	2644.0
23	107	26.5	22.9	4.4	32.3	209.2	345.0	384.9	391.2	254.6	256.1	347.4	108.1	2382.0
23	108	43.3	90.7	37.0	47.8	293.1	206.6	252.6	290.6	231.4	553.8	422.2	144.4	2614.0
23	109	22.8	63.3	35.4	69.2	176.5	237.0	381.8	284.9	324.8	271.5	357.2	316.4	2540.0
23	110	73.2	17.0	3.2	89.6	350.0	217.5	278.8	299.1	309.9	298.1	372.4	237.5	2545.0
23	111	167.8	81.0	93.0	491.9	380.4	314.9	434.0	407.7	251.3	311.9	339.1	255.3	3528.0
23	112	139.8	37.5	39.2	309.5	389.8	283.5	415.1	287.2	250.9	368.9	354.9	226.8	3104.0
23	113	19.8	10.3	27.6	48.3	215.4	320.5	203.2	355.0	321.5	465.2	290.2	27.8	2304.0
23	114	34.6	41.0	30.3	109.7	278.6	337.2	275.2	253.0	216.0	293.5	474.5	229.5	2574.0
23	115	86.4	18.5	24.8	77.0	151.0	244.6	293.6	270.5	311.9	439.8	415.6	87.3	2422.0
23	116	54.5	32.3	59.7	145.8	202.3	291.6	337.2	363.9	247.1	293.0	446.1	261.1	2734.0
23	117	45.2	35.7	35.4	37.1	311.8	340.4	242.3	400.1	349.8	423.5	244.6	151.6	2618.0
23	118	27.6	36.9	21.1	107.5	294.1	308.3	164.1	279.0	362.2	308.4	406.3	131.0	2445.0
23	119	34.4	67.6	21.4	58.0	264.9	278.7	390.1	225.4	359.5	259.1	513.3	99.9	2571.0
23	120	66.9	11.1	18.0	173.4	374.9	346.6	283.5	346.9	407.2	310.2	415.1	219.2	2973.0
23	121	54.2	16.8	23.0	31.7	247.3	204.6	366.2	210.7	263.8	246.1	346.6	78.2	2090.0
23	122	63.2	42.0	77.0	124.6	277.5	465.1	285.0	315.8	300.5	448.1	298.9	93.7	2792.0
23	123	64.8	25.2	21.3	92.9	332.9	403.6	185.2	293.5	267.9	377.8	743.8	195.9	3006.0
23	124	28.6	30.4	16.0	125.6	326.2	364.3	357.8	398.2	290.6	339.1	393.7	151.1	2822.0
23	125	54.1	29.2	26.7	74.7	227.7	184.1	338.3	242.7	299.3	408.7	290.8	368.6	2546.0
23	126	154.9	18.2	51.0	163.1	308.6	191.3	268.7	373.4	270.8	612.0	271.2	80.6	2764.0
23	127	58.4	23.4	22.2	85.0	237.2	268.0	319.8	210.1	232.2	324.4	410.1	203.3	2392.0
23	128	21.4	21.1	15.8	91.5	356.8	339.5	316.3	329.1	347.6	490.4	328.8	599.7	3258.0
23	129	127.9	9.3	52.3	149.3	348.8	309.1	291.0	347.5	316.3	426.2	298.7	110.3	2786.0
23	130	138.3	16.8	13.7	18.6	273.1	299.0	264.7	248.0	395.6	310.7	322.5	299.9	2602.0
23	131	26.9	31.4	12.9	19.8	159.0	286.2	208.1	206.6	308.2	599.8	242.3	104.4	2205.0
23	132	58.7	21.6	21.2	52.6	251.1	193.8	352.9	277.8	342.2	393.1	197.0	406.8	2570.0
23	133	356.4	11.3	8.8	32.9	197.5	430.1	212.6	286.5	307.9	471.1	238.4	202.4	2754.0
23	134	28.3	19.9	20.6	71.9	172.2	358.3	247.0	194.2	253.4	407.7	299.7	298.2	2371.0
23	135	54.6	15.1	52.2	159.1	316.3	463.2	155.2	308.6	365.2	476.9	422.5	144.5	2933.0
23	136	13.1	28.2	56.1	67.9	259.1	393.9	300.7	280.3	340.7	264.2	498.5	214.5	2717.0
23	137	28.1	99.9	72.8	63.6	370.2	344.1	375.7	295.5	264.9	254.1	208.5	231.4	2609.0
23	138	43.2	26.1	14.0	15.8	50.5	201.0	130.1	264.2	429.2	363.4	503.6	599.6	2641.0
23	139	86.1	17.7	17.7	166.3	316.8	370.3	278.5	218.9	279.5	302.9	248.2	43.6	2347.0
23	140	14.4	26.9	21.9	42.3	213.8	211.5	350.3	298.2	257.7	329.0	309.3	227.9	2302.0
23	141	7.7	36.6	120.7	521.2	279.0	262.3	415.3	299.7	302.8	360.7	324.4	321.6	3253.0
23	142	85.3	34.1	41.4	90.6	259.8	318.7	189.8	279.7	299.7	367.3	611.0	521.8	3100.0
23	143	56.9	22.5	17.9	102.5	295.4	240.6	222.5	261.6	363.0	351.2	203.6	90.1	2228.0
23	144	32.3	93.7	131.2	257.7	373.5	344.1	208.6	235.8	197.1	312.7	260.3	233.6	2681.0
23	145	280.7	162.7	13.5	72.0	319.9	315.6	153.4	251.5	295.2	329.6	248.3	82.0	2525.0
23	146	219.3	6.6	7.1	8.2	223.9	243.9	247.4	344.5	354.6	354.6	353.6	287.3	2652.0
23	147	120.4	17.0	14.3	101.7	249.6	357.9	196.3	268.9	437.2	402.7	424.1	236.2	2826.0

23	148	44.6	17.8	24.6	182.9	345.8	279.0	318.6	236.3	351.5	481.6	350.8	229.6	2865.0
23	149	75.9	11.5	51.4	183.1	331.7	216.9	322.5	308.8	364.8	269.2	309.9	236.4	2681.0
23	150	86.4	33.0	13.3	53.4	384.2	247.7	191.3	315.6	299.3	270.7	268.5	94.5	2258.0
23	151	22.4	30.6	21.9	62.2	242.9	311.1	256.0	390.3	359.9	462.1	460.8	234.7	2855.0
23	152	11.5	46.5	20.7	35.4	316.2	314.8	236.5	260.1	367.9	330.7	375.7	474.2	2789.0
23	153	127.7	40.5	69.8	210.6	304.3	209.4	236.5	274.8	211.1	294.5	525.5	452.8	2958.0
23	154	120.2	21.8	17.6	74.1	272.1	286.8	251.9	296.4	284.9	411.3	249.4	52.5	2339.0
23	155	63.3	21.1	62.2	50.8	369.6	228.7	78.0	215.6	305.4	325.3	488.9	243.7	2453.0
23	156	94.0	66.5	52.2	148.1	370.8	276.4	237.9	352.9	291.6	434.8	205.5	136.0	2668.0
23	157	21.5	6.9	18.1	52.9	292.0	229.9	218.3	208.4	316.5	380.9	296.6	152.2	2194.0
23	158	81.6	70.6	61.3	162.7	342.9	281.7	210.4	207.6	286.9	274.5	438.5	260.1	2679.0
23	159	297.9	109.0	23.2	185.3	335.9	266.0	207.9	337.1	339.2	343.9	219.9	93.3	2758.0
23	160	23.2	104.0	99.7	143.1	401.3	310.0	400.7	360.3	335.6	341.0	297.2	202.5	3018.0
23	161	93.5	63.5	11.0	20.4	200.3	335.1	239.5	275.9	339.1	464.3	394.0	27.8	2463.0
23	162	36.6	18.8	6.8	73.2	265.1	286.1	285.2	343.5	338.4	362.4	386.8	149.7	2553.0
23	163	126.7	149.1	30.5	90.6	245.6	274.9	348.1	304.5	320.8	413.2	367.0	210.6	2884.0
23	164	152.0	25.7	118.8	253.3	256.2	356.0	321.6	307.9	264.5	264.5	322.2	215.8	2859.0
23	165	67.1	24.7	33.5	140.2	405.3	292.1	287.6	324.0	263.8	431.1	403.6	124.2	2797.0
23	166	12.8	32.8	46.9	159.7	362.7	303.7	202.7	274.6	168.6	384.8	270.0	327.0	2549.0
23	167	28.2	27.6	13.8	222.6	168.4	226.9	203.0	237.5	369.2	447.7	382.5	223.2	2551.0
23	168	17.1	24.1	3.8	139.3	371.7	249.3	248.9	312.0	252.4	364.4	374.2	245.6	2602.0
23	169	76.6	61.3	14.1	100.9	333.3	240.0	182.6	248.9	423.3	435.8	260.9	567.4	2945.0
23	170	103.1	38.6	42.0	145.4	287.0	341.6	388.3	375.0	316.5	466.0	649.8	135.7	3289.0
23	171	133.6	90.6	85.2	16.7	230.7	170.0	322.5	318.7	264.8	481.6	271.9	653.8	3042.0
23	172	277.1	36.5	44.3	83.0	400.1	278.6	278.4	352.1	339.5	374.5	280.8	94.0	2839.0
23	173	42.4	6.9	20.6	69.1	344.4	255.8	301.0	331.3	254.4	427.1	267.2	83.2	2402.0
23	174	275.0	44.7	34.4	216.6	322.9	200.5	122.1	266.1	348.4	364.7	320.9	83.2	2599.0
23	175	23.5	11.8	9.1	82.9	279.6	260.9	381.1	291.7	343.1	397.5	307.3	224.3	2612.0
23	176	10.9	39.5	63.4	131.2	330.5	361.5	275.8	232.2	285.1	304.4	311.0	59.9	2405.0
23	177	51.8	39.3	35.5	63.1	282.8	287.9	313.9	209.6	314.5	324.8	557.3	467.8	2948.0
23	178	146.4	38.1	18.8	137.9	384.2	235.9	294.7	355.5	238.8	221.4	240.8	166.8	2480.0
23	179	26.5	34.4	12.6	139.8	351.9	362.9	263.3	378.8	303.7	421.9	513.3	368.4	3178.0
23	180	123.8	7.6	31.4	160.0	276.5	366.7	286.3	360.2	319.2	293.3	636.4	122.2	2982.0
23	181	37.4	79.3	14.2	67.3	259.0	255.4	305.4	233.7	375.6	333.9	292.5	150.6	2403.0
23	182	14.4	65.5	26.3	53.5	304.7	318.2	351.0	229.6	351.7	326.0	417.0	117.9	2576.0
23	183	26.3	47.8	18.4	106.0	353.6	244.5	251.8	208.2	253.7	338.8	286.2	215.7	2351.0
23	184	11.7	16.4	28.7	73.0	325.3	170.9	434.9	345.3	354.2	368.7	340.9	90.2	2560.0
23	185	35.1	14.5	23.6	209.8	257.0	265.8	364.9	374.6	320.5	269.6	487.7	60.8	2685.0
23	186	172.4	13.5	49.3	41.8	169.3	317.8	238.9	248.6	338.2	333.7	528.0	171.5	2623.0
23	187	76.0	16.7	44.3	114.5	307.0	332.4	456.0	390.0	273.6	289.6	486.2	359.7	3147.0
23	188	124.5	37.3	12.2	15.3	208.2	311.4	232.5	235.9	309.0	236.3	270.2	270.9	2261.0
23	189	102.3	19.1	3.2	53.8	272.3	265.8	320.7	261.4	312.1	259.3	352.7	169.8	2392.0
23	190	35.9	19.4	35.1	51.8	154.0	206.4	157.8	174.1	241.4	411.4	353.0	309.6	2149.0
23	191	55.3	72.6	38.0	182.2	283.0	306.2	220.3	291.9	329.1	274.0	411.4	409.9	2873.0
23	192	41.0	5.4	16.9	16.2	284.3	318.4	383.8	290.6	271.7	296.4	354.3	63.4	2341.0
23	193	58.5	50.7	49.0	40.3	371.1	345.0	241.7	189.4	282.8	382.8	222.8	82.7	2318.0
23	194	7.3	6.7	9.2	82.7	251.6	342.5	277.5	412.7	279.9	354.7	212.4	73.8	2312.0
23	195	45.9	17.5	14.4	60.0	286.9	443.2	406.8	241.8	304.8	306.0	307.8	486.0	2922.0
23	196	513.7	52.8	60.1	207.8	328.8	287.4	305.8	291.4	316.1	407.4	182.8	232.0	3186.0
23	197	95.4	42.8	23.4	28.4	258.3	312.0	227.4	447.2	273.1	249.7	412.7	53.5	2422.0
23	198	73.1	38.1	44.0	251.5	361.7	304.7	259.9	296.6	244.7	373.5	296.2	205.8	2751.0
23	199	31.8	47.9	104.0	83.2	258.5	257.4	198.5	263.3	257.1	474.9	339.3	54.3	2370.0
23	200	46.3	69.2	12.5	11.8	127.4	275.6	280.0	298.0	279.1	378.7	448.1	355.9	2583.0

MAXIMUM VOLUMES FOR PERIOD 2 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	513.7	162.7	131.2	521.2	405.3	465.1	456.0	447.2	437.2	612.0	743.8	653.8	743.8	2537.1	14156.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	7.3	5.4	3.2	8.2	50.5	170.0	78.0	174.1	168.6	221.4	182.8	27.8	3.2	321.6	10210.
STA 23 MONTH 1 MEAN	81.16	VARIANCE	6610.58	STAN. DEV.	81.31										
STA 23 MONTH 2 MEAN	37.95	VARIANCE	896.25	STAN. DEV.	29.94										
STA 23 MONTH 3 MEAN	34.35	VARIANCE	720.82	STAN. DEV.	26.85										
STA 23 MONTH 4 MEAN	109.67	VARIANCE	7542.79	STAN. DEV.	86.85										
STA 23 MONTH 5 MEAN	286.12	VARIANCE	5661.09	STAN. DEV.	75.24										
STA 23 MONTH 6 MEAN	287.73	VARIANCE	5046.43	STAN. DEV.	71.04										
STA 23 MONTH 7 MEAN	274.88	VARIANCE	6675.53	STAN. DEV.	81.70										
STA 23 MONTH 8 MEAN	288.69	VARIANCE	4382.81	STAN. DEV.	66.20										
STA 23 MONTH 9 MEAN	301.58	VARIANCE	3477.10	STAN. DEV.	58.97										
STA 23 MONTH 10 MEAN	357.78	VARIANCE	7541.95	STAN. DEV.	86.84										
STA 23 MONTH 11 MEAN	358.95	VARIANCE	13644.53	STAN. DEV.	116.81										
STA 23 MONTH 12 MEAN	217.17	VARIANCE	19800.99	STAN. DEV.	140.72										

1
GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 3

STA 23 MONTH 1 MEAN	0.004	STD DEVO	0.055
STA 23 MONTH 2 MEAN	0.002	STD DEVO	0.057
STA 23 MONTH 3 MEAN	0.003	STD DEVO	0.056
STA 23 MONTH 4 MEAN	-0.007	STD DEVO	0.057
STA 23 MONTH 5 MEAN	0.002	STD DEVO	0.067
STA 23 MONTH 6 MEAN	0.006	STD DEVO	0.064
STA 23 MONTH 7 MEAN	0.003	STD DEVO	0.064
STA 23 MONTH 8 MEAN	-0.010	STD DEVO	0.064
STA 23 MONTH 9 MEAN	-0.003	STD DEVO	0.065
STA 23 MONTH 10 MEAN	0.003	STD DEVO	0.062
STA 23 MONTH 11 MEAN	0.003	STD DEVO	0.066
STA 23 MONTH 12 MEAN	-0.001	STD DEVO	0.062

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	201	106.2	37.4	169.3	243.4	281.3	217.5	152.1	221.1	330.8	357.4	456.7	179.8	2751.0
23	202	153.8	42.4	61.3	18.0	307.6	324.9	302.8	356.8	326.1	444.7	271.6	279.3	2890.0
23	203	64.1	100.8	32.3	177.6	398.8	359.6	380.4	233.7	270.6	377.5	254.8	233.2	2884.0
23	204	203.5	50.3	49.8	46.2	247.2	182.1	278.4	271.0	256.2	493.8	243.8	85.3	2407.0
23	205	40.9	27.9	33.4	102.8	263.4	164.5	224.1	365.7	316.7	645.4	282.3	246.3	2713.0
23	206	26.2	14.6	6.3	150.1	291.2	249.5	278.0	282.9	363.6	353.7	558.9	88.8	2665.0
23	207	82.1	69.3	14.6	60.9	286.8	257.0	258.9	209.2	222.5	225.0	356.7	84.9	2129.0
23	208	47.7	12.4	49.4	137.2	319.9	281.9	397.6	372.9	340.7	340.1	376.3	166.7	2843.0
23	209	7.6	7.3	90.4	245.9	391.7	294.6	360.5	288.9	338.7	403.7	202.5	173.9	2807.0
23	210	60.7	129.5	22.1	69.8	366.7	208.9	374.5	274.4	351.0	465.0	291.1	250.7	2864.0
23	211	29.2	17.6	30.5	82.0	261.3	233.1	287.4	332.2	349.1	507.7	263.4	450.6	2843.0
23	212	97.0	35.2	21.4	76.3	293.7	306.6	281.6	292.8	356.7	415.7	397.0	125.3	2700.0
23	213	30.5	46.6	49.2	174.8	349.2	188.2	159.7	230.5	377.1	385.5	312.7	242.9	2548.0
23	214	39.5	21.7	16.0	238.9	363.8	296.3	215.1	362.4	355.2	469.5	309.6	84.7	2773.0
23	215	23.9	32.7	23.4	93.5	335.5	246.2	154.7	258.6	279.0	254.2	280.8	515.7	2499.0
23	216	17.3	15.1	14.7	93.3	250.6	282.5	183.2	268.1	250.5	372.8	332.8	117.6	2199.0
23	217	26.4	11.6	36.7	299.0	294.1	259.8	245.8	221.9	274.1	324.1	485.4	190.8	2670.0
23	218	159.9	45.9	24.4	62.5	188.5	137.0	260.3	203.6	252.9	425.8	529.7	807.2	3097.0

G-III

23	219	191.0	12.7	79.1	62.2	294.5	279.8	210.1	345.7	235.1	285.8	291.6	187.9	2476.0
23	220	13.8	55.9	11.4	88.0	374.8	309.6	225.7	242.1	332.9	331.6	284.6	179.7	2452.0
23	221	84.3	51.5	24.5	95.5	192.4	397.2	385.4	298.4	230.7	279.2	483.9	360.0	2883.0
23	222	56.4	40.5	27.3	102.5	160.5	253.1	258.2	269.8	327.4	265.8	319.0	380.6	2460.0
23	223	472.5	26.6	37.5	48.9	295.8	317.8	225.2	291.2	290.5	219.5	474.6	338.5	3039.0
23	224	20.9	54.8	22.3	24.2	208.4	296.4	130.2	321.1	202.1	275.8	378.0	88.6	2022.0
23	225	185.3	44.2	38.9	21.7	198.1	198.7	356.4	223.9	276.1	280.6	329.2	186.2	2339.0
23	226	110.7	71.7	23.2	80.7	287.4	275.9	384.2	254.0	283.2	438.8	325.5	146.6	2682.0
23	227	168.6	22.7	70.8	197.9	396.2	410.6	263.9	232.8	283.0	462.7	377.5	199.3	3087.0
23	228	214.9	38.6	5.1	39.5	359.9	213.7	229.1	272.6	283.3	410.7	253.4	28.5	2349.0
23	229	10.4	65.3	43.7	106.8	365.1	333.4	242.4	265.8	325.8	324.7	770.0	145.5	2999.0
23	230	58.8	36.4	48.9	28.8	229.0	256.3	201.3	317.3	383.7	256.2	232.3	183.5	2231.0
23	231	41.2	102.4	30.2	67.6	328.9	248.0	131.3	266.6	300.3	285.0	499.7	170.1	2471.0
23	232	114.1	88.0	51.4	157.7	260.2	236.9	317.7	295.1	304.5	334.6	278.9	148.6	2589.0
23	233	22.7	63.9	20.8	42.8	339.7	276.3	208.2	264.4	363.5	353.2	320.6	355.1	2631.0
23	234	69.3	45.1	41.2	9.6	233.5	390.9	344.1	282.1	353.1	368.2	278.1	57.8	2472.0
23	235	19.3	56.5	20.0	274.5	306.8	246.6	291.6	355.8	357.7	384.6	204.0	25.8	2545.0
23	236	9.2	16.6	39.4	309.9	371.5	291.3	130.0	252.3	306.1	302.7	380.7	111.5	2522.0
23	237	85.5	9.0	82.1	231.2	319.5	269.3	413.3	468.3	268.5	532.2	547.2	396.0	3620.0
23	238	409.9	8.9	13.0	50.6	166.3	223.7	143.9	222.8	271.9	328.6	332.8	233.2	2407.0
23	239	114.2	67.6	110.8	113.7	297.2	440.9	361.3	282.7	260.5	281.4	410.5	173.5	2915.0
23	240	9.7	50.5	44.5	245.8	391.7	284.3	256.1	246.4	273.1	327.9	256.5	421.8	2808.0
23	241	52.0	34.9	34.6	151.1	268.5	316.4	390.5	339.2	270.6	373.4	332.3	579.1	3142.0
23	242	146.9	42.0	31.6	69.2	249.3	308.4	155.8	245.7	282.9	243.3	512.7	229.0	2517.0
23	243	91.7	36.4	10.1	133.1	341.5	408.7	302.2	226.8	325.3	336.0	395.7	269.5	2877.0
23	244	20.4	37.6	35.3	94.4	356.0	243.2	289.1	319.6	232.5	472.3	517.6	239.8	2858.0
23	245	60.0	30.1	96.6	227.8	185.2	277.3	297.9	349.6	393.2	418.4	264.1	83.9	2684.0
23	246	41.4	73.4	38.3	111.4	289.6	396.5	305.4	334.7	255.0	430.2	316.3	117.0	2707.0
23	247	66.7	21.0	38.8	69.4	248.5	271.9	383.7	464.5	355.4	476.4	363.8	121.7	2882.0
23	248	55.3	27.1	14.3	60.8	279.4	348.3	309.4	272.8	215.1	380.1	507.7	51.0	2520.0
23	249	48.9	7.8	48.9	27.0	301.7	304.3	270.1	313.5	269.0	280.0	235.1	80.0	2187.0
23	250	55.0	40.6	17.1	60.9	233.9	312.5	263.1	309.2	301.7	343.5	270.5	146.4	2355.0
23	251	16.2	54.9	16.4	92.9	208.3	302.8	314.6	217.2	316.6	304.4	440.6	50.8	2336.0
23	252	19.9	78.2	25.4	40.6	294.3	287.2	324.5	342.6	299.7	383.8	351.8	127.1	2575.0
23	253	250.9	50.5	19.3	136.1	311.1	386.9	275.4	240.2	271.0	415.9	459.1	254.3	3069.0
23	254	178.2	33.5	47.3	87.0	394.0	393.0	324.5	287.9	314.0	287.8	264.1	103.5	2714.0
23	255	94.9	38.5	18.8	120.0	360.2	346.4	298.1	345.5	265.1	275.4	251.4	188.6	2601.0
23	256	42.8	35.2	16.9	63.6	371.7	221.9	105.1	150.8	285.1	296.6	424.2	402.1	2417.0
23	257	65.4	3.1	13.1	32.1	236.7	264.1	295.6	326.8	274.1	479.9	357.5	266.6	2616.0
23	258	62.3	30.5	20.2	61.3	346.3	363.0	303.8	309.8	326.8	278.6	244.8	111.2	2458.0
23	259	121.2	13.6	20.5	27.1	162.5	256.0	398.0	377.4	228.3	273.8	444.1	281.2	2603.0
23	260	43.4	22.9	38.4	264.0	362.0	233.1	270.7	243.1	263.9	356.1	345.1	51.3	2493.0
23	261	10.9	37.2	34.4	133.9	332.0	250.0	276.9	300.9	289.6	276.0	339.5	243.8	2526.0
23	262	80.4	92.8	12.8	22.0	346.5	239.6	196.2	211.2	281.2	328.5	529.8	398.7	2741.0
23	263	251.7	27.0	29.7	18.3	271.9	396.6	342.6	244.0	337.7	370.9	369.4	626.6	3288.0
23	264	54.9	20.3	19.0	73.5	262.2	303.5	344.6	233.0	297.0	311.5	514.3	135.6	2569.0
23	265	67.8	18.9	8.7	42.4	198.1	332.9	261.9	419.7	337.7	361.2	373.9	97.0	2521.0
23	266	24.8	6.4	47.3	110.0	357.9	294.0	283.3	371.1	310.2	269.8	332.6	116.0	2523.0
23	267	9.0	45.5	100.1	75.4	224.2	326.0	444.1	367.5	370.5	256.5	206.1	94.5	2519.0
23	268	51.3	31.9	12.5	24.4	288.7	171.6	243.6	274.7	282.9	313.4	264.1	53.3	2012.0
23	269	83.8	51.0	15.2	161.6	186.8	316.9	211.8	326.2	308.3	479.5	334.3	301.6	2778.0
23	270	71.4	8.9	19.5	373.9	402.6	265.5	213.0	272.9	315.4	429.7	335.3	230.6	2939.0
23	271	23.0	40.3	81.5	41.4	123.2	259.8	139.4	309.5	370.5	279.7	519.4	492.4	2678.0
23	272	159.9	20.7	19.0	136.5	245.0	360.8	336.8	228.4	276.2	406.3	395.8	251.1	2836.0

23	273	27.6	25.3	8.1	16.2	191.9	205.0	254.6	240.5	271.7	499.9	542.2	257.1	2540.0
23	274	255.6	49.7	32.5	210.7	283.6	219.2	316.5	250.7	241.2	345.9	404.5	111.5	2724.0
23	275	40.5	3.6	6.8	41.4	339.5	370.3	384.1	257.2	230.5	327.6	274.3	163.8	2439.0
23	276	223.7	35.1	10.4	99.3	175.2	265.2	283.9	216.5	429.7	455.4	277.9	85.5	2556.0
23	277	127.6	34.0	15.7	26.5	196.1	373.0	263.3	322.0	241.7	338.8	471.6	257.4	2669.0
23	278	32.3	2.6	21.3	185.9	209.5	286.6	292.1	309.3	265.5	357.5	386.2	420.3	2768.0
23	279	217.7	94.4	241.1	261.9	342.5	430.0	396.1	254.9	279.7	339.5	419.7	388.8	3667.0
23	280	82.4	40.8	114.7	334.9	317.7	410.7	263.1	235.8	322.0	365.4	380.5	84.0	2952.0
23	281	17.2	30.0	11.0	43.6	316.9	220.4	363.2	335.0	379.5	333.5	183.9	132.0	2367.0
23	282	78.9	30.1	27.4	80.0	341.9	275.4	230.9	192.5	265.3	420.1	342.2	258.8	2543.0
23	283	34.1	26.0	18.3	19.1	201.7	293.0	252.9	305.4	364.7	425.8	230.4	178.8	2350.0
23	284	60.2	62.7	39.8	33.8	278.4	328.0	360.7	244.8	264.0	402.7	377.1	164.4	2617.0
23	285	68.5	36.1	8.1	124.7	351.8	250.6	405.3	377.2	354.0	288.2	367.0	129.0	2761.0
23	286	73.1	20.7	26.7	94.9	317.2	193.0	276.7	369.2	272.0	382.6	277.1	128.2	2432.0
23	287	145.4	19.8	12.8	72.3	277.2	380.5	183.8	348.8	228.9	425.8	230.3	201.4	2527.0
23	288	19.1	19.0	50.3	259.3	366.8	283.9	347.2	435.7	272.2	388.7	351.8	191.1	2985.0
23	289	30.1	24.0	7.0	63.3	162.1	361.7	166.9	236.9	219.6	323.4	242.6	215.7	2054.0
23	290	85.8	80.5	32.6	78.7	400.2	277.4	309.4	300.7	370.4	338.0	268.9	228.3	2770.0
23	291	48.3	21.6	22.6	149.9	388.5	205.6	292.4	260.1	327.5	609.5	266.0	90.5	2683.0
23	292	50.7	15.2	32.1	134.7	368.7	345.4	393.5	302.2	299.2	384.3	297.6	188.7	2813.0
23	293	54.9	27.2	17.5	47.8	122.2	336.8	212.8	284.3	346.0	324.5	570.3	437.2	2781.0
23	294	37.8	57.0	47.0	108.8	151.0	279.1	378.3	276.1	454.4	336.1	261.5	215.1	2601.0
23	295	44.6	22.7	20.4	52.5	255.9	315.1	169.2	202.4	289.5	391.0	338.9	85.4	2187.0
23	296	35.6	15.5	22.1	204.3	358.5	310.8	323.8	359.4	391.9	369.4	788.7	389.1	3570.0
23	297	18.7	61.0	42.5	179.0	330.4	291.1	347.4	325.8	356.8	334.0	288.1	379.9	2954.0
23	298	33.1	13.9	4.1	85.9	306.2	269.3	225.6	399.2	272.4	326.8	475.7	119.9	2532.0
23	299	59.3	12.2	4.2	23.7	266.3	224.9	173.5	288.4	445.9	307.2	306.0	228.3	2338.0
23	300	41.8	21.9	11.9	63.5	143.9	349.9	257.8	341.7	334.3	241.5	790.1	749.4	3348.0

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MAXIMUM VOLUMES FOR PERIOD 3 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	472.5	129.5	241.1	373.9	402.6	440.9	444.1	468.3	454.4	645.4	790.1	807.2	807.2	2714.8	13985.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	7.6	2.6	4.1	9.6	122.2	137.0	105.1	150.8	202.1	219.5	183.9	25.8	2.6	420.6	9978.
STA 23 MONTH 1 MEAN	81.24	VARIANCE	6454.59	STAN. DEV.	80.34										
STA 23 MONTH 2 MEAN	37.40	VARIANCE	610.88	STAN. DEV.	24.72										
STA 23 MONTH 3 MEAN	35.30	VARIANCE	1171.04	STAN. DEV.	34.22										
STA 23 MONTH 4 MEAN	109.48	VARIANCE	6802.20	STAN. DEV.	82.48										
STA 23 MONTH 5 MEAN	285.27	VARIANCE	5842.79	STAN. DEV.	76.44										
STA 23 MONTH 6 MEAN	287.02	VARIANCE	4882.66	STAN. DEV.	69.88										
STA 23 MONTH 7 MEAN	275.44	VARIANCE	6740.29	STAN. DEV.	82.10										
STA 23 MONTH 8 MEAN	288.24	VARIANCE	4437.14	STAN. DEV.	66.61										
STA 23 MONTH 9 MEAN	301.03	VARIANCE	3575.90	STAN. DEV.	59.80										
STA 23 MONTH 10 MEAN	359.22	VARIANCE	7554.61	STAN. DEV.	86.92										
STA 23 MONTH 11 MEAN	356.69	VARIANCE	13907.18	STAN. DEV.	117.93										
STA 23 MONTH 12 MEAN	213.68	VARIANCE	19750.71	STAN. DEV.	140.54										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 4

STA 23 MONTH 1	MEAN 0.013	STD DEVO.056
STA 23 MONTH 2	MEAN 0.000	STD DEVO.062
STA 23 MONTH 3	MEAN-0.010	STD DEVO.064

STA	23	MONTH	4	MEAN	0.007	STD	DEVO	0.064
STA	23	MONTH	5	MEAN	-0.004	STD	DEVO	0.066
STA	23	MONTH	6	MEAN	-0.009	STD	DEVO	0.066
STA	23	MONTH	7	MEAN	-0.006	STD	DEVO	0.057
STA	23	MONTH	8	MEAN	-0.001	STD	DEVO	0.066
STA	23	MONTH	9	MEAN	0.001	STD	DEVO	0.068
STA	23	MONTH	10	MEAN	-0.001	STD	DEVO	0.063
STA	23	MONTH	11	MEAN	0.008	STD	DEVO	0.074
STA	23	MONTH	12	MEAN	0.005	STD	DEVO	0.065

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	301	23.1	10.4	10.1	33.3	391.5	236.5	292.7	296.2	376.4	292.9	412.2	130.1	2503.0
23	302	32.4	22.4	20.8	23.7	349.9	264.9	148.4	217.3	342.2	335.9	456.8	204.7	2419.0
23	303	25.0	56.3	49.5	98.6	402.6	194.2	331.0	367.9	377.2	444.2	280.7	48.9	2676.0
23	304	40.5	56.4	19.6	58.4	381.8	307.2	274.8	331.1	233.9	425.4	321.5	101.1	2550.0
23	305	201.6	66.8	18.1	201.3	370.4	379.1	289.7	246.9	227.4	232.4	487.6	197.4	2918.0
23	306	46.7	15.1	5.3	3.5	113.8	181.6	271.8	433.0	307.4	467.8	582.8	253.8	2683.0
23	307	29.2	19.5	51.1	98.2	375.3	291.3	183.8	250.1	268.3	274.1	231.6	64.1	2135.0
23	308	40.9	23.0	12.4	38.4	170.9	359.7	297.3	239.7	289.6	326.6	393.9	33.6	2227.0
23	309	55.3	113.8	236.9	58.8	259.1	422.0	291.2	289.8	310.2	345.2	462.9	272.8	3118.0
23	310	62.2	43.0	26.3	57.6	328.6	224.8	286.8	286.2	314.9	535.6	486.8	178.2	2832.0
23	311	35.5	19.1	29.7	81.3	236.3	253.9	257.0	354.2	301.3	245.0	318.0	148.6	2279.0
23	312	210.5	119.2	86.7	194.5	369.3	240.1	217.8	165.7	279.8	286.0	432.5	554.5	3156.0
23	313	493.2	12.8	20.0	106.5	337.2	198.5	248.9	276.3	288.3	279.5	281.7	474.8	3016.0
23	314	12.2	8.5	3.3	47.3	229.5	272.1	369.5	361.3	304.4	365.0	418.6	327.5	2719.0
23	315	29.3	15.9	29.7	51.6	359.7	227.8	269.5	441.6	332.3	426.9	350.1	154.6	2691.0
23	316	27.6	26.7	57.3	136.0	302.9	329.8	207.8	333.5	379.6	390.1	369.1	239.2	2801.0
23	317	18.8	56.5	58.5	115.6	207.1	336.7	315.6	364.8	237.7	310.6	404.8	276.4	2705.0
23	318	60.2	14.1	15.4	257.9	280.8	232.2	338.9	292.7	241.3	281.9	289.4	98.5	2402.0
23	319	49.3	22.9	17.9	50.0	318.4	275.3	419.9	376.0	369.9	468.6	336.8	43.0	2748.0
23	320	71.2	20.7	10.4	107.4	337.0	261.5	252.5	359.1	286.5	373.8	558.4	345.4	2981.0
23	321	78.0	70.2	68.1	84.5	185.6	266.6	275.7	186.3	264.8	455.6	473.0	305.6	2715.0
23	322	36.9	19.1	21.4	65.9	296.1	273.9	304.6	271.5	343.6	294.5	241.4	219.7	2389.0
23	323	35.4	65.2	15.1	203.5	244.9	141.8	204.0	282.1	284.6	445.7	340.6	254.9	2518.0
23	324	132.0	50.9	44.2	193.6	309.0	265.7	380.8	289.4	357.5	258.0	370.3	107.3	2758.0
23	325	11.1	21.1	15.7	82.8	220.3	251.4	174.6	289.7	322.7	328.0	330.5	260.0	2308.0
23	326	148.9	59.5	49.3	132.1	305.5	243.5	173.8	257.0	244.4	395.2	369.0	508.0	2886.0
23	327	283.8	22.7	56.4	119.6	282.9	242.2	364.5	342.7	297.5	258.2	310.9	109.7	2692.0
23	328	232.1	90.6	42.5	393.6	359.2	408.4	373.0	339.3	295.6	320.1	377.5	289.3	3521.0
23	329	133.0	11.0	6.4	34.9	336.4	260.8	275.2	329.4	371.3	420.3	175.0	118.9	2471.0
23	330	27.6	7.2	20.8	61.3	293.6	300.1	364.0	341.4	310.3	390.6	296.6	317.4	2731.0
23	331	394.3	28.7	25.4	49.5	274.1	354.0	305.7	312.5	343.2	388.9	349.8	363.4	3189.0
23	332	45.9	118.2	87.1	51.2	357.9	326.1	312.3	249.2	237.0	317.9	380.6	229.6	2713.0
23	333	42.2	35.7	42.2	537.8	353.7	307.3	339.8	251.9	356.4	420.4	269.8	48.4	3005.0
23	334	48.0	47.1	48.4	171.0	335.3	237.1	278.5	141.2	332.9	308.0	508.1	128.7	2583.0
23	335	46.1	14.7	71.6	20.2	181.2	237.6	221.5	355.9	360.8	407.9	352.7	69.2	2340.0
23	336	35.7	3.9	40.5	196.0	273.9	275.7	327.5	237.5	315.2	382.7	376.1	239.1	2705.0
23	337	121.4	14.2	28.6	121.4	246.3	224.3	242.1	421.2	352.1	307.6	758.3	339.7	3176.0
23	338	76.8	43.8	43.9	72.8	352.5	389.1	390.3	319.5	373.7	595.4	239.8	283.8	3182.0
23	339	190.8	78.9	5.6	48.2	107.1	338.5	329.4	251.7	384.1	324.6	831.8	571.5	3462.0
23	340	77.5	46.7	24.2	384.8	330.8	299.3	376.1	344.6	318.4	314.2	279.8	161.9	2959.0
23	341	11.2	23.9	20.4	143.2	274.7	316.6	347.6	242.1	354.6	312.4	272.0	517.7	2837.0
23	342	92.7	35.8	69.8	102.6	175.4	179.0	276.9	340.7	311.2	343.3	255.2	93.7	2277.0
23	343	17.4	10.1	23.9	70.4	263.2	386.8	284.1	335.0	332.6	339.7	388.6	48.4	2500.0

23	344	62.1	62.3	38.9	116.2	372.6	290.0	204.9	259.0	269.3	321.5	233.9	178.8	2410.0
23	345	68.2	36.3	18.2	74.1	300.2	324.1	166.8	286.1	283.7	486.3	470.4	338.7	2852.0
23	346	69.6	19.7	40.8	245.1	261.2	313.9	378.9	228.2	196.9	248.6	387.3	125.0	2516.0
23	347	59.3	13.1	41.2	148.9	376.6	280.6	406.9	307.3	349.5	493.9	412.8	305.1	3196.0
23	348	12.6	36.2	50.0	65.4	368.4	296.9	383.3	321.8	259.8	515.5	236.2	114.6	2660.0
23	349	145.1	13.6	18.7	57.7	250.4	318.4	205.1	360.4	288.4	314.7	332.7	64.1	2369.0
23	350	117.1	25.8	15.2	92.9	337.2	355.4	193.7	331.5	283.4	400.1	264.5	96.4	2512.0
23	351	79.0	18.6	30.3	154.8	260.1	277.7	171.3	220.6	296.5	311.4	396.0	54.1	2271.0
23	352	24.0	30.9	21.2	114.3	127.3	453.5	351.6	357.6	313.9	359.1	256.5	129.7	2541.0
23	353	22.0	25.9	67.7	52.2	262.2	370.1	393.1	324.7	239.8	421.9	204.6	346.9	2732.0
23	354	22.0	53.6	12.7	24.2	312.9	260.6	233.9	322.5	289.7	472.5	283.2	211.4	2500.0
23	355	26.0	47.4	34.1	91.3	348.9	468.0	399.4	270.5	258.5	430.2	422.6	313.5	3109.0
23	356	67.9	12.8	5.1	38.7	314.6	256.8	215.1	287.1	208.9	273.4	467.0	324.4	2472.0
23	357	34.3	3.3	15.4	67.3	269.2	330.9	245.9	294.6	230.5	336.0	328.7	137.8	2293.0
23	358	30.5	37.6	15.3	19.8	148.5	204.4	127.3	201.9	344.9	378.3	433.8	196.2	2138.0
23	359	148.5	37.3	55.9	68.2	318.5	248.6	301.3	321.7	243.0	378.4	491.2	154.8	2766.0
23	360	8.8	20.0	5.6	82.1	335.7	386.4	281.5	253.5	263.7	349.5	227.7	188.0	2402.0
23	361	91.6	48.6	11.9	209.6	371.7	265.5	142.4	248.0	325.2	266.9	294.5	34.0	2310.0
23	362	9.8	10.5	24.0	53.6	348.7	290.8	439.8	284.5	307.8	253.6	289.9	189.4	2504.0
23	363	29.4	15.9	17.4	77.5	399.0	403.1	205.0	280.5	269.9	319.5	627.3	757.4	3402.0
23	364	124.7	61.2	66.9	110.3	307.8	318.0	291.8	305.3	339.8	232.9	514.5	345.3	3018.0
23	365	89.4	24.6	8.7	61.3	323.6	253.7	473.6	282.6	223.7	369.7	207.9	209.8	2531.0
23	366	65.0	44.7	84.1	163.1	335.0	280.9	304.1	226.2	321.5	326.6	379.4	132.9	2664.0
23	367	85.8	99.2	24.2	57.3	253.1	234.2	261.9	235.3	380.7	380.2	217.1	156.2	2384.0
23	368	131.7	12.3	4.1	15.6	252.4	294.3	303.4	264.8	323.4	437.6	428.1	269.1	2736.0
23	369	61.4	149.8	74.2	65.4	209.9	205.0	174.5	303.6	306.0	444.1	287.5	309.6	2590.0
23	370	71.6	62.9	8.2	100.3	349.9	317.2	367.5	325.3	355.6	312.9	427.6	229.1	2929.0
23	371	241.1	34.3	51.4	371.2	388.1	387.9	171.9	237.4	320.6	288.3	409.9	426.6	3328.0
23	372	100.7	53.0	16.2	50.8	147.0	304.1	243.4	230.9	381.7	293.0	287.7	169.5	2278.0
23	373	42.5	38.6	31.6	57.4	120.2	262.9	388.4	317.8	439.5	345.8	391.1	123.2	2558.0
23	374	19.6	9.3	44.4	74.9	261.3	300.4	261.7	352.8	302.8	514.4	215.7	198.9	2556.0
23	375	125.6	17.3	19.5	75.0	271.9	284.9	144.7	183.8	209.2	330.3	252.1	165.9	2081.0
23	376	16.3	56.6	41.9	104.1	309.7	405.8	379.2	343.7	295.5	379.8	301.8	38.3	2673.0
23	377	8.2	95.0	76.2	297.5	346.1	371.7	262.7	324.6	333.1	243.2	409.5	243.2	3010.0
23	378	357.8	24.3	21.8	194.4	228.2	389.2	238.9	334.9	364.0	333.1	392.8	132.7	3012.0
23	379	24.1	36.7	26.1	57.0	231.3	308.3	335.9	347.2	384.1	313.0	555.5	300.1	2919.0
23	380	61.2	26.2	24.2	80.3	329.6	300.5	276.4	347.1	338.9	413.6	266.5	116.8	2580.0
23	381	73.0	51.1	51.4	145.4	184.1	213.7	189.8	357.2	321.1	338.9	377.3	159.5	2462.0
23	382	31.1	20.7	71.4	175.3	335.5	251.0	384.0	361.8	366.6	350.3	259.3	104.9	2712.0
23	383	47.4	27.7	28.7	126.9	270.8	206.8	236.2	255.2	233.6	285.3	600.5	98.5	2419.0
23	384	20.3	19.7	29.0	50.5	294.6	225.3	247.6	225.4	319.0	353.5	280.6	112.5	2180.0
23	385	14.7	44.0	93.2	73.8	274.4	274.5	166.0	240.6	286.5	454.1	288.3	312.3	2522.0
23	386	79.1	28.4	20.3	26.3	65.2	291.8	136.8	214.2	348.1	518.0	584.0	360.1	2671.0
23	387	18.2	84.9	21.2	82.8	302.6	246.5	362.4	221.3	261.3	301.7	354.7	74.6	2333.0
23	388	93.3	14.1	26.7	219.3	351.9	259.0	200.8	309.7	289.5	305.5	350.6	260.1	2681.0
23	389	95.5	28.4	29.1	26.7	377.0	384.5	272.6	206.3	256.0	436.4	379.1	178.9	2671.0
23	390	64.1	31.3	31.1	18.1	234.8	282.1	242.3	309.4	241.6	316.8	470.2	611.3	2852.0
23	391	47.0	43.9	17.1	84.6	340.8	256.3	279.9	273.3	202.1	402.4	375.1	89.5	2412.0
23	392	88.4	25.5	9.8	34.7	303.6	183.9	336.6	182.2	254.8	363.2	247.7	351.0	2382.0
23	393	77.8	42.8	9.2	31.4	163.8	368.7	159.4	241.6	254.8	328.7	335.0	289.7	2304.0
23	394	148.7	26.4	25.0	74.5	295.4	391.9	204.0	255.2	353.8	359.5	303.3	353.1	2790.0
23	395	35.2	74.7	59.8	340.8	400.3	285.1	181.2	252.2	365.5	407.7	318.6	384.8	3107.0
23	396	66.9	7.2	14.0	180.8	234.0	266.0	251.3	261.7	339.2	291.8	214.9	55.8	2184.0
23	397	110.2	44.8	32.0	186.5	365.6	270.3	237.5	306.9	285.3	635.6	227.0	150.2	2853.0

23	398	51.7	51.4	11.3	43.1	258.5	239.9	323.0	385.1	232.3	247.5	395.5	184.1	2421.0
23	399	245.2	32.2	21.4	118.8	271.6	188.4	252.4	280.8	257.7	448.7	275.2	258.2	2650.0
23	400	185.7	51.1	46.0	53.4	234.8	333.0	276.9	288.3	292.8	301.5	329.4	110.2	2503.0

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MAXIMUM VOLUMES FOR PERIOD 4 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	493.2	149.8	236.9	537.8	402.6	468.0	473.6	441.6	439.5	635.6	831.8	757.4	831.8	2693.0	14859.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	8.2	3.3	3.3	3.5	65.2	141.8	127.3	141.2	196.9	232.4	175.0	33.6	3.3	349.7	10182.
STA 23 MONTH 1 MEAN	80.46	VARIANCE	6914.87	STAN. DEV.	83.16										
STA 23 MONTH 2 MEAN	37.77	VARIANCE	787.58	STAN. DEV.	28.06										
STA 23 MONTH 3 MEAN	34.16	VARIANCE	899.00	STAN. DEV.	29.98										
STA 23 MONTH 4 MEAN	109.91	VARIANCE	8504.45	STAN. DEV.	92.22										
STA 23 MONTH 5 MEAN	285.55	VARIANCE	6304.54	STAN. DEV.	79.40										
STA 23 MONTH 6 MEAN	287.16	VARIANCE	5015.83	STAN. DEV.	70.82										
STA 23 MONTH 7 MEAN	274.78	VARIANCE	6770.60	STAN. DEV.	82.28										
STA 23 MONTH 8 MEAN	288.80	VARIANCE	4230.97	STAN. DEV.	65.05										
STA 23 MONTH 9 MEAN	301.45	VARIANCE	3456.03	STAN. DEV.	58.79										
STA 23 MONTH 10 MEAN	358.71	VARIANCE	7760.69	STAN. DEV.	88.09										
STA 23 MONTH 11 MEAN	360.66	VARIANCE	14813.31	STAN. DEV.	121.71										
STA 23 MONTH 12 MEAN	219.50	VARIANCE	19641.85	STAN. DEV.	140.15										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 5

STA 23 MONTH 1	MEAN-0.002	STD DEVO 0.060
STA 23 MONTH 2	MEAN-0.005	STD DEVO 0.062
STA 23 MONTH 3	MEAN-0.005	STD DEVO 0.061
STA 23 MONTH 4	MEAN 0.002	STD DEVO 0.067
STA 23 MONTH 5	MEAN 0.004	STD DEVO 0.063
STA 23 MONTH 6	MEAN 0.006	STD DEVO 0.059
STA 23 MONTH 7	MEAN 0.001	STD DEVO 0.069
STA 23 MONTH 8	MEAN-0.001	STD DEVO 0.067
STA 23 MONTH 9	MEAN 0.000	STD DEVO 0.059
STA 23 MONTH 10	MEAN 0.009	STD DEVO 0.068
STA 23 MONTH 11	MEAN-0.002	STD DEVO 0.061
STA 23 MONTH 12	MEAN 0.006	STD DEVO 0.055

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	401	137.5	25.4	13.5	142.8	300.6	227.3	238.6	347.7	303.4	330.0	499.8	235.0	2802.0
23	402	96.5	47.8	4.6	53.0	377.1	338.2	248.8	337.8	314.5	301.0	240.9	78.2	2439.0
23	403	114.4	24.6	81.0	90.2	245.7	298.4	345.3	359.9	325.9	242.4	224.3	42.5	2393.0
23	404	28.5	48.6	96.9	197.2	325.4	164.2	229.7	283.8	267.0	359.9	262.3	237.7	2501.0
23	405	16.6	95.3	70.8	105.9	282.5	422.5	443.2	275.7	415.8	519.7	394.9	563.8	3609.0
23	406	17.5	19.8	16.2	24.7	176.9	175.0	187.4	240.5	288.8	334.1	386.1	313.6	2181.0
23	407	161.7	107.7	32.8	87.1	397.8	353.9	247.9	236.7	250.9	372.7	304.0	33.5	2588.0
23	408	92.0	49.2	72.0	291.0	329.2	268.5	210.3	245.1	288.4	278.3	652.2	214.3	2988.0
23	409	72.9	42.1	43.4	64.5	324.7	391.3	316.7	257.5	322.3	342.5	693.6	385.3	3256.0
23	410	93.6	38.6	20.7	56.1	313.9	182.0	217.3	256.7	214.5	416.6	314.3	235.2	2360.0
23	411	71.0	13.9	37.5	138.1	392.9	300.2	178.7	295.4	292.1	377.8	379.7	77.0	2554.0
23	412	69.2	41.6	27.3	168.6	261.0	298.1	303.1	214.2	385.6	488.3	310.4	168.9	2736.0
23	413	55.1	100.0	67.8	27.1	258.4	299.6	337.1	398.5	346.1	296.9	278.9	158.9	2624.0
23	414	170.0	43.0	31.5	80.4	383.6	302.4	318.3	240.7	359.8	340.0	287.5	213.1	2771.0

23	415	39.4	47.8	21.1	55.9	269.6	386.3	442.3	376.5	382.1	382.3	271.8	174.8	2849.0
23	416	50.5	19.4	18.4	75.5	355.6	308.4	240.1	187.7	329.5	460.3	181.3	133.0	2357.0
23	417	13.3	61.3	9.9	98.8	322.8	276.6	296.5	253.1	249.5	253.9	297.4	210.7	2344.0
23	418	85.6	22.4	18.4	48.5	315.2	268.6	291.3	288.2	299.3	291.5	346.5	71.6	2347.0
23	419	111.7	20.7	26.4	36.5	297.9	313.9	165.1	283.7	267.6	397.6	192.1	63.6	2178.0
23	420	161.0	29.2	12.9	88.6	301.0	326.2	327.0	291.5	328.0	358.2	283.2	464.5	2971.0
23	421	115.2	24.6	38.5	99.0	381.7	276.9	198.9	241.1	349.5	437.7	339.1	365.7	2868.0
23	422	67.8	55.0	25.6	324.4	395.9	324.2	259.0	296.5	254.3	276.8	306.7	293.7	2881.0
23	423	81.9	24.6	34.2	176.0	368.4	300.3	332.4	253.9	245.7	265.2	412.2	177.9	2672.0
23	424	71.8	22.3	19.1	213.5	237.0	146.7	93.9	237.7	262.0	385.4	465.8	205.1	2361.0
23	425	6.3	21.1	11.4	52.3	257.6	299.8	310.7	260.7	387.3	378.4	391.6	202.1	2579.0
23	426	59.2	26.3	18.6	152.6	375.9	304.3	288.5	315.4	245.9	260.8	330.1	354.0	2732.0
23	427	27.1	28.8	9.8	24.5	227.2	401.7	359.4	216.8	246.1	390.6	370.2	143.8	2447.0
23	428	41.2	46.7	79.8	173.1	246.0	282.5	204.7	234.4	309.8	348.3	210.9	38.0	2216.0
23	429	64.6	40.4	38.0	124.2	260.9	286.0	280.6	273.2	245.1	326.4	394.4	250.2	2583.0
23	430	239.0	16.1	8.0	158.5	254.5	219.7	167.0	247.0	288.3	457.9	411.7	438.6	2908.0
23	431	54.0	37.6	7.3	74.6	383.3	337.1	198.5	312.1	316.7	367.8	693.2	196.3	2979.0
23	432	38.4	25.8	22.0	63.4	311.2	343.8	184.2	266.2	274.3	443.3	248.2	181.7	2401.0
23	433	33.2	12.8	13.6	34.7	329.2	265.9	412.2	349.8	311.2	369.0	249.5	87.8	2470.0
23	434	11.1	60.4	32.9	173.1	325.4	290.0	362.7	309.3	239.0	320.2	285.3	33.6	2442.0
23	435	82.6	98.9	22.4	43.7	326.6	456.6	343.5	373.6	224.6	227.1	345.1	216.3	2762.0
23	436	66.3	17.3	8.8	86.4	122.8	261.8	250.0	261.5	276.7	281.6	242.6	261.8	2139.0
23	437	112.5	19.8	45.6	28.1	308.1	225.0	316.6	299.6	385.4	360.6	435.3	230.8	2769.0
23	438	16.8	27.9	123.2	417.8	320.6	234.6	250.1	296.9	356.0	354.0	377.5	91.4	2868.0
23	439	77.0	85.0	13.5	14.6	221.0	169.1	303.7	367.2	245.3	434.6	482.0	349.0	2763.0
23	440	39.8	25.9	39.3	51.6	358.2	332.5	178.1	243.2	343.0	393.2	362.5	100.5	2467.0
23	441	45.0	11.7	6.5	34.2	155.0	266.9	202.2	242.4	397.5	509.6	313.9	423.2	2609.0
23	442	107.9	38.7	60.9	72.9	196.6	322.5	211.2	211.3	303.6	386.3	253.9	131.4	2297.0
23	443	6.9	11.6	13.8	144.2	378.9	383.3	213.0	200.2	290.3	291.9	362.4	482.8	2779.0
23	444	77.8	14.7	28.5	25.8	240.9	287.8	166.6	405.8	365.4	312.5	272.6	337.8	2537.0
23	445	71.1	21.1	9.4	34.9	361.4	265.1	306.5	224.6	298.8	426.8	340.0	107.7	2468.0
23	446	5.1	32.1	56.0	35.8	277.5	294.5	289.1	248.1	311.2	376.8	499.9	446.4	2871.0
23	447	258.8	206.4	78.9	135.0	397.9	393.1	208.4	251.4	296.9	394.3	455.3	240.3	3315.0
23	448	83.6	114.1	106.4	100.5	390.7	265.3	193.8	294.6	313.6	374.3	235.6	60.6	2534.0
23	449	51.9	15.0	13.8	111.5	212.7	369.8	315.3	378.9	288.7	219.2	425.2	309.0	2711.0
23	450	65.3	35.1	23.8	143.3	299.4	245.9	138.7	225.6	352.0	357.7	397.0	129.0	2413.0
23	451	48.1	24.3	7.4	37.6	287.9	260.5	287.5	357.6	351.6	269.7	415.4	233.8	2583.0
23	452	148.5	45.5	11.4	77.0	339.9	359.2	198.6	233.4	341.4	379.7	304.1	206.6	2646.0
23	453	70.9	11.5	35.1	157.1	269.2	415.5	359.2	358.0	253.5	347.1	282.9	218.4	2778.0
23	454	38.5	34.6	27.8	108.3	165.0	289.3	362.0	266.1	328.8	302.7	321.3	374.1	2618.0
23	455	39.6	18.4	21.7	73.4	375.2	201.7	345.6	216.0	358.9	270.1	441.1	93.0	2455.0
23	456	34.7	60.0	78.8	186.0	316.0	350.5	421.2	276.0	333.2	359.3	337.3	112.3	2864.0
23	457	43.2	10.3	18.9	22.9	347.0	187.3	203.5	188.1	287.5	267.0	448.0	295.5	2319.0
23	458	209.2	37.7	22.9	397.0	332.2	317.2	277.8	362.0	292.2	289.2	431.6	189.7	3159.0
23	459	41.5	30.0	43.2	278.0	219.4	305.0	226.5	306.0	446.7	318.4	281.5	183.3	2678.0
23	460	28.0	41.6	39.3	198.3	369.8	396.3	271.2	282.1	328.0	318.6	367.0	196.0	2836.0
23	461	52.7	23.4	15.1	14.2	317.3	223.9	263.3	332.7	282.9	479.1	421.6	119.3	2545.0
23	462	114.6	51.8	31.0	19.3	253.9	377.5	238.5	447.6	287.5	282.9	425.8	180.4	2711.0
23	463	43.8	27.3	16.5	60.8	322.7	192.6	156.2	253.9	332.2	350.3	248.7	125.0	2130.0
23	464	27.2	29.7	59.9	167.8	340.4	325.8	346.3	398.7	314.2	611.5	338.8	53.0	3014.0
23	465	113.4	46.5	50.6	119.6	312.2	349.0	305.0	351.5	289.9	302.9	560.0	141.9	2943.0
23	466	25.6	6.7	25.0	96.8	280.6	241.0	396.4	272.3	288.6	425.7	244.2	167.7	2472.0
23	467	21.2	6.9	8.7	69.8	206.1	200.4	273.9	445.8	265.6	310.4	401.8	160.6	2372.0
23	468	40.9	16.9	19.2	18.5	333.8	260.4	330.6	331.0	211.4	548.7	549.6	81.2	2743.0

23	469	15.0	11.4	12.3	292.7	250.4	292.9	286.3	377.7	252.9	387.2	267.9	120.7	2567.0
23	470	37.1	22.8	9.1	153.9	269.9	183.9	187.6	321.0	287.9	432.1	309.3	93.6	2309.0
23	471	115.6	50.1	33.8	408.4	192.4	328.0	370.4	394.3	359.1	312.1	226.3	163.4	2952.0
23	472	125.5	20.0	19.9	233.2	332.3	274.2	330.8	220.0	355.0	345.7	271.2	457.2	2985.0
23	473	174.5	18.4	73.9	180.5	378.8	281.0	217.9	198.2	202.6	415.6	299.5	156.9	2598.0
23	474	23.8	5.7	2.2	13.8	81.9	273.8	436.7	324.0	376.5	561.7	301.1	96.1	2499.0
23	475	30.1	56.1	34.5	205.1	311.6	208.6	231.4	245.1	240.7	245.0	282.5	188.9	2280.0
23	476	42.1	13.6	13.8	24.3	334.6	283.4	206.8	265.0	283.3	383.5	175.9	175.2	2202.0
23	477	329.1	219.7	20.4	57.4	385.3	277.4	275.6	299.2	296.7	439.5	355.7	201.2	3156.0
23	478	86.4	27.6	19.9	115.2	198.0	286.4	273.1	304.1	410.6	501.8	275.6	120.1	2619.0
23	479	30.3	33.0	28.3	45.3	217.3	260.0	359.0	302.4	212.8	305.4	329.4	485.9	2607.0
23	480	396.4	83.9	71.6	178.2	236.3	235.2	110.6	237.9	250.0	399.7	602.5	735.9	3539.0
23	481	23.9	23.6	37.9	123.4	155.4	259.6	263.1	272.3	244.8	286.5	720.1	67.4	2477.0
23	482	13.0	3.5	16.7	43.8	243.9	349.6	358.5	305.7	311.7	411.9	417.2	116.5	2594.0
23	483	25.3	33.6	18.4	168.6	215.9	274.0	444.3	355.8	351.4	369.8	309.1	113.4	2679.0
23	484	46.2	61.8	48.7	83.9	329.5	221.8	338.3	391.2	325.2	378.2	373.6	80.5	2678.0
23	485	117.8	59.2	40.1	32.8	317.2	299.3	365.8	229.1	273.9	387.8	387.8	209.0	2720.0
23	486	23.1	17.5	103.6	64.0	191.3	326.3	277.5	221.1	249.1	293.2	289.9	198.0	2254.0
23	487	41.1	19.7	17.6	104.3	272.1	401.3	370.8	385.4	373.3	364.7	198.6	226.4	2775.0
23	488	35.6	11.3	37.2	122.2	256.8	258.4	365.2	286.0	318.8	516.9	367.9	222.8	2799.0
23	489	166.2	67.9	28.9	26.9	223.3	272.2	134.3	226.1	369.9	474.8	370.1	132.1	2492.0
23	490	30.9	23.7	22.9	81.9	263.0	296.3	251.4	333.5	255.3	256.5	478.4	177.2	2470.0
23	491	162.0	15.2	74.6	45.4	47.5	228.8	274.8	270.0	364.0	364.9	403.5	369.3	2619.0
23	492	118.2	46.4	71.9	86.8	252.1	362.1	269.6	352.5	222.7	346.6	263.3	44.9	2438.0
23	493	32.6	17.0	28.4	38.5	209.1	200.7	286.2	315.5	283.3	335.1	422.1	404.8	2572.0
23	494	148.8	51.2	46.4	86.0	218.6	201.9	242.0	220.1	334.7	379.8	611.8	565.9	3108.0
23	495	45.0	63.3	42.9	69.6	210.5	348.2	337.9	294.2	225.5	303.8	291.8	507.3	2740.0
23	496	276.9	42.7	172.6	146.6	388.6	347.8	332.0	291.0	278.6	369.6	414.3	363.0	3426.0
23	497	18.7	7.3	12.8	129.3	258.4	275.6	329.0	379.6	344.7	210.2	440.3	167.4	2573.0
23	498	12.1	25.5	22.0	80.9	296.9	344.4	335.9	308.9	328.7	318.8	507.7	702.7	3285.0
23	499	62.4	28.4	17.6	67.3	347.1	292.2	304.5	342.1	325.8	362.6	496.8	184.5	2831.0
23	500	360.9	83.1	17.6	163.5	341.3	301.2	219.9	208.8	279.1	371.7	362.5	161.6	2872.0

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MAXIMUM VOLUMES FOR PERIOD 5 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	396.4	219.7	172.6	417.8	397.9	456.6	444.3	447.6	446.7	611.5	720.1	735.9	735.9	2613.1	14376.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	5.1	3.5	2.2	13.8	47.5	146.7	93.9	187.7	202.6	210.2	175.9	33.5	2.2	284.3	9966.
STA 23 MONTH 1 MEAN	76.85	VARIANCE	4877.14	STAN. DEV.	69.84										
STA 23 MONTH 2 MEAN	38.20	VARIANCE	1177.75	STAN. DEV.	34.32										
STA 23 MONTH 3 MEAN	34.66	VARIANCE	836.05	STAN. DEV.	28.91										
STA 23 MONTH 4 MEAN	108.67	VARIANCE	7414.70	STAN. DEV.	86.11										
STA 23 MONTH 5 MEAN	284.29	VARIANCE	6080.43	STAN. DEV.	77.98										
STA 23 MONTH 6 MEAN	287.53	VARIANCE	4849.50	STAN. DEV.	69.64										
STA 23 MONTH 7 MEAN	275.55	VARIANCE	6665.16	STAN. DEV.	81.64										
STA 23 MONTH 8 MEAN	289.58	VARIANCE	4410.00	STAN. DEV.	66.41										
STA 23 MONTH 9 MEAN	301.59	VARIANCE	3523.63	STAN. DEV.	59.36										
STA 23 MONTH 10 MEAN	357.67	VARIANCE	7340.37	STAN. DEV.	85.68										
STA 23 MONTH 11 MEAN	359.93	VARIANCE	14117.17	STAN. DEV.	118.82										
STA 23 MONTH 12 MEAN	219.42	VARIANCE	21475.83	STAN. DEV.	146.55										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 6

STA 23 MONTH 1 MEAN 0.003 STD DEVO.055
 STA 23 MONTH 2 MEAN-0.010 STD DEVO.059
 STA 23 MONTH 3 MEAN 0.009 STD DEVO.062
 STA 23 MONTH 4 MEAN 0.001 STD DEVO.065
 STA 23 MONTH 5 MEAN 0.002 STD DEVO.066
 STA 23 MONTH 6 MEAN-0.009 STD DEVO.063
 STA 23 MONTH 7 MEAN-0.011 STD DEVO.060
 STA 23 MONTH 8 MEAN-0.003 STD DEVO.067
 STA 23 MONTH 9 MEAN 0.003 STD DEVO.062
 STA 23 MONTH 10 MEAN 0.000 STD DEVO.073
 STA 23 MONTH 11 MEAN 0.004 STD DEVO.062
 STA 23 MONTH 12 MEAN 0.009 STD DEVO.055

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	501	64.2	48.6	239.0	135.7	317.9	337.3	228.3	344.5	339.5	310.2	225.6	183.8	2774.0
23	502	98.3	54.9	52.1	118.7	224.7	294.8	66.4	288.3	265.1	463.6	235.5	140.6	2303.0
23	503	19.3	88.0	7.0	27.5	189.7	251.8	388.9	375.2	332.7	377.1	221.0	128.5	2408.0
23	504	4.4	54.8	64.2	61.5	262.3	327.8	206.4	294.5	318.5	390.8	357.8	328.7	2670.0
23	505	20.9	35.5	36.6	47.9	180.7	267.8	457.1	377.8	266.0	613.2	308.6	190.7	2805.0
23	506	81.0	49.3	21.2	154.7	380.7	376.2	325.4	379.5	424.3	299.4	520.1	507.1	3517.0
23	507	253.8	5.3	13.9	9.6	301.5	322.5	227.6	376.0	276.4	661.7	411.2	193.7	3054.0
23	508	89.3	26.4	141.2	105.1	303.6	367.4	361.5	320.4	271.8	302.8	354.6	52.2	2696.0
23	509	35.7	23.4	42.7	62.6	311.6	341.4	211.6	339.8	268.4	296.0	753.3	337.9	3025.0
23	510	74.3	82.5	30.5	22.8	96.0	294.2	365.7	312.8	293.2	287.3	295.2	83.1	2237.0
23	511	12.8	29.8	21.1	59.1	367.8	289.6	355.7	336.3	289.7	390.9	191.0	188.7	2534.0
23	512	142.2	42.5	33.7	200.4	310.6	241.3	251.8	249.5	278.9	266.1	419.7	276.0	2713.0
23	513	74.2	20.5	21.5	85.1	325.8	211.7	297.0	271.6	378.9	482.3	380.3	210.3	2760.0
23	514	29.3	49.2	81.4	52.4	304.7	367.4	186.7	163.2	221.7	365.4	266.8	194.6	2282.0
23	515	17.9	51.4	45.8	212.8	301.5	398.7	307.6	348.5	379.5	439.0	384.1	48.1	2934.0
23	516	59.1	56.8	19.2	194.1	317.6	375.7	330.4	248.3	394.7	289.8	331.1	421.6	3039.0
23	517	21.4	23.2	17.4	52.6	310.5	237.5	395.1	290.6	273.6	344.0	223.9	317.0	2507.0
23	518	44.3	17.4	27.0	126.3	358.7	229.6	359.4	279.6	331.4	303.3	290.3	275.3	2641.0
23	519	29.5	36.9	47.4	53.9	261.9	216.1	192.1	271.9	269.9	389.3	196.3	84.6	2049.0
23	520	48.7	23.7	33.3	12.1	384.7	334.7	378.2	317.7	303.9	290.7	336.4	105.2	2570.0
23	521	42.1	80.5	15.8	59.6	357.4	377.3	332.3	225.6	346.6	251.2	689.2	129.8	2907.0
23	522	125.1	13.4	7.7	103.1	256.3	261.5	344.5	284.8	371.8	328.5	394.6	118.1	2610.0
23	523	97.1	38.1	26.4	145.7	401.5	380.3	250.8	236.9	349.9	435.7	387.3	215.6	2966.0
23	524	17.5	5.6	11.8	103.1	250.7	248.7	294.7	187.4	243.7	426.1	382.4	122.9	2295.0
23	525	3.7	20.3	20.5	63.2	326.6	265.3	302.3	212.0	291.6	345.6	298.6	122.8	2273.0
23	526	68.2	16.6	6.6	18.5	130.6	186.9	166.1	322.0	314.1	432.4	300.6	348.1	2312.0
23	527	72.4	64.9	20.1	104.3	239.0	310.7	337.7	230.1	319.8	473.8	255.0	27.2	2455.0
23	528	25.3	5.7	23.5	124.5	376.7	289.3	235.0	241.0	299.1	264.5	437.5	338.5	2660.0
23	529	115.7	12.7	65.1	190.4	279.1	198.6	240.4	311.2	233.0	304.4	198.4	39.2	2187.0
23	530	12.4	29.5	16.2	150.7	304.4	430.9	269.8	294.9	222.0	297.9	378.6	131.9	2539.0
23	531	22.9	20.7	22.8	369.8	394.8	238.0	284.9	254.3	277.6	542.7	601.9	304.2	3336.0
23	532	145.0	74.5	32.2	89.9	320.9	299.4	314.4	338.5	201.8	437.9	380.4	249.1	2882.0
23	533	39.7	9.5	17.8	110.5	247.9	473.3	263.2	199.8	314.9	249.1	497.0	285.3	2708.0
23	534	102.0	97.6	50.1	119.0	285.8	311.1	190.3	299.2	280.1	381.1	273.0	253.9	2643.0
23	535	311.4	25.0	16.4	53.2	199.3	281.4	208.6	369.2	314.1	258.3	410.8	424.3	2870.0
23	536	19.3	4.5	5.6	57.7	285.8	308.4	251.7	310.4	350.8	440.9	352.8	196.9	2586.0
23	537	538.6	76.0	18.7	34.0	142.8	221.3	323.3	300.8	355.6	328.8	488.0	265.0	3094.0
23	538	160.8	8.1	28.4	145.8	330.5	359.9	336.4	360.1	269.2	411.5	329.4	466.4	3205.0
23	539	67.1	60.5	137.9	250.1	385.4	214.8	219.1	302.7	250.9	392.4	490.0	296.6	3067.0

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23	540	121.3	17.4	14.9	16.9	271.7	262.7	202.0	369.3	252.4	304.6	357.4	176.3	2366.0
23	541	74.8	36.0	16.9	11.7	209.0	376.2	323.6	456.1	289.8	393.6	260.1	73.5	2523.0
23	542	11.0	56.2	22.5	57.9	292.4	277.8	381.3	305.4	392.2	269.7	461.4	415.9	2943.0
23	543	29.3	23.8	22.3	64.1	275.8	197.4	134.8	170.5	287.8	283.0	383.0	81.8	1953.0
23	544	124.3	46.3	30.1	91.9	382.2	364.0	359.1	293.2	318.2	331.8	199.9	31.1	2571.0
23	545	244.2	79.8	100.5	129.3	368.9	276.6	343.8	335.1	211.9	377.5	352.2	589.0	3410.0
23	546	43.8	25.9	61.1	38.1	363.3	256.9	359.3	373.9	283.8	392.2	267.9	90.4	2556.0
23	547	62.8	29.2	16.7	43.1	295.3	331.8	368.0	398.9	268.4	495.3	332.5	179.7	2822.0
23	548	41.1	27.9	23.4	116.8	308.6	289.7	373.2	346.6	337.0	306.6	311.9	262.5	2746.0
23	549	116.7	58.4	43.5	24.3	148.8	230.9	393.3	329.0	289.8	382.4	295.4	117.3	2428.0
23	550	30.3	85.8	54.8	119.5	245.6	377.8	383.1	380.7	295.8	291.7	305.6	195.2	2767.0
23	551	48.3	33.6	37.7	60.9	158.8	265.1	243.3	208.8	252.2	512.9	200.4	60.1	2082.0
23	552	25.4	33.9	15.1	82.5	197.0	272.7	194.0	297.2	299.1	310.0	299.8	66.8	2093.0
23	553	82.7	105.2	21.7	65.6	262.8	212.9	225.5	265.4	361.5	330.8	489.1	282.9	2707.0
23	554	51.9	23.6	8.5	4.5	233.5	188.3	184.0	328.5	390.6	571.1	352.1	59.4	2395.0
23	555	203.4	21.5	23.3	86.0	230.2	358.6	178.0	230.8	263.8	357.4	228.5	268.7	2450.0
23	556	20.1	32.8	71.2	144.1	262.2	239.2	329.6	282.5	266.3	355.2	394.5	294.3	2691.0
23	557	50.8	34.2	8.6	232.3	383.9	284.6	160.3	222.9	353.1	403.3	307.0	208.3	2649.0
23	558	54.8	35.9	6.3	48.0	266.3	264.8	324.7	227.1	277.0	442.2	590.2	167.2	2704.0
23	559	86.1	18.6	24.3	132.2	256.5	295.0	267.8	177.1	336.9	394.5	234.1	252.8	2476.0
23	560	41.9	10.7	10.7	92.1	132.9	342.0	120.0	215.7	308.2	283.8	597.5	304.6	2461.0
23	561	95.1	9.7	9.7	21.6	342.0	202.8	226.5	230.3	284.7	348.9	429.8	394.6	2597.0
23	562	47.8	29.5	21.9	81.2	374.4	234.3	244.4	344.2	301.9	329.4	517.4	154.7	2679.0
23	563	197.9	65.5	121.7	359.3	321.2	226.5	243.4	357.7	331.7	349.6	526.9	245.7	3347.0
23	564	9.6	17.7	57.1	40.9	239.2	271.6	251.5	328.5	253.2	245.1	273.9	369.3	2357.0
23	565	102.9	36.6	57.6	175.3	282.9	264.6	322.2	276.6	445.0	289.7	381.5	223.5	2861.0
23	566	118.9	11.9	12.7	57.4	210.1	326.4	415.1	227.6	219.9	370.3	312.2	481.0	2763.0
23	567	62.3	24.6	34.9	61.6	129.7	277.8	282.5	240.2	360.4	318.8	450.2	474.1	2717.0
23	568	126.3	52.7	15.9	44.9	322.2	286.5	290.0	280.9	262.8	338.6	273.5	324.7	2619.0
23	569	40.4	17.1	41.2	91.3	231.2	265.8	379.7	304.7	290.7	432.3	322.0	231.7	2648.0
23	570	89.9	5.2	13.8	236.4	364.7	271.7	365.1	313.8	266.4	273.6	302.1	323.1	2826.0
23	571	40.3	99.0	25.3	56.4	304.6	358.4	383.8	328.1	211.7	250.3	264.9	105.3	2427.0
23	572	92.0	109.4	61.3	114.9	141.9	262.3	290.0	255.7	314.6	299.0	441.3	59.6	2442.0
23	573	242.1	76.4	28.9	78.0	387.4	466.5	250.7	396.6	407.2	412.8	563.2	54.4	3363.0
23	574	25.6	20.5	7.0	31.4	129.4	224.0	224.0	268.8	293.8	372.7	413.4	365.8	2376.0
23	575	335.6	36.6	23.2	360.6	379.5	271.4	210.7	229.9	324.3	330.0	212.6	242.7	2958.0
23	576	96.5	83.0	101.8	115.8	288.8	240.6	228.6	268.9	246.8	482.2	282.0	170.3	2607.0
23	577	71.3	51.1	17.3	122.9	380.9	328.1	236.7	303.0	299.1	525.2	354.9	209.9	2900.0
23	578	64.6	25.0	15.0	110.7	169.9	250.8	247.8	198.9	356.2	344.5	394.6	214.2	2393.0
23	579	18.8	49.1	40.7	309.8	344.6	215.4	312.7	283.9	326.6	378.8	241.4	184.8	2708.0
23	580	73.0	32.7	49.9	61.4	305.6	318.2	168.1	353.7	391.0	351.5	342.1	171.1	2619.0
23	581	278.4	73.7	7.5	68.0	310.3	350.6	429.3	356.6	262.1	298.7	361.3	407.7	3204.0
23	582	87.4	38.4	21.9	260.6	342.4	335.8	210.4	335.8	295.7	312.7	399.9	135.9	2777.0
23	583	90.8	25.1	14.9	72.2	372.6	466.8	393.0	386.6	326.7	309.0	376.0	170.1	3005.0
23	584	28.0	23.8	20.6	173.2	337.9	264.8	131.8	293.7	377.1	244.9	425.5	55.2	2378.0
23	585	127.3	11.4	26.4	116.5	298.5	314.7	232.6	231.2	225.0	300.5	397.2	255.8	2536.0
23	586	34.7	23.6	13.2	113.6	289.7	310.4	289.1	287.6	258.4	339.2	248.3	277.1	2485.0
23	587	30.5	33.9	10.1	97.6	330.7	201.4	295.7	257.2	341.2	248.8	316.8	432.1	2596.0
23	588	53.6	16.3	24.2	94.8	339.5	340.2	289.8	316.2	311.0	313.2	611.6	331.9	3043.0
23	589	40.8	48.8	27.7	249.6	319.0	232.5	223.5	328.0	363.3	364.0	472.5	206.0	2877.0
23	590	114.0	30.2	116.6	316.4	361.1	281.7	305.2	244.9	246.9	312.0	455.3	248.5	3032.0
23	591	38.9	43.2	53.5	195.2	333.5	348.5	230.1	227.1	236.1	367.7	315.3	195.7	2585.0
23	592	32.4	24.3	67.6	48.0	94.9	146.7	232.1	243.9	332.8	429.6	310.9	11.4	1975.0
23	593	24.6	14.0	14.0	64.9	309.1	325.3	242.9	367.8	323.1	385.6	333.6	168.8	2575.0

23	594	39.5	23.3	44.5	220.0	339.6	307.6	330.1	239.4	232.3	321.7	484.9	93.7	2678.0
23	595	43.7	12.1	6.9	51.2	375.9	367.6	166.2	219.4	336.8	375.8	299.0	122.7	2378.0
23	596	83.7	90.9	52.0	53.3	286.2	233.9	211.0	287.3	303.9	258.4	260.7	217.8	2339.0
23	597	75.9	45.9	35.2	63.1	294.0	298.5	266.4	230.9	289.7	375.7	367.5	456.1	2800.0
23	598	23.7	10.4	46.9	58.3	208.5	205.8	236.8	270.0	378.1	413.5	473.0	160.2	2485.0
23	599	63.8	8.6	19.8	259.1	365.6	229.9	334.8	311.7	318.6	534.1	263.3	91.6	2803.0
23	600	34.8	27.0	17.0	107.2	354.4	216.0	265.3	259.9	370.2	300.0	399.1	121.9	2472.0

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MAXIMUM VOLUMES FOR PERIOD 6 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	538.6	109.4	239.0	369.8	401.5	473.3	457.1	456.1	445.0	661.7	753.3	589.0	753.3	2497.0	14506.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	3.7	4.5	5.6	4.5	94.9	146.7	66.4	163.2	201.8	244.9	191.0	11.4	3.7	268.2	10037.
STA 23 MONTH 1 MEAN	80.34	VARIANCE	6528.23	STAN. DEV.			80.80								
STA 23 MONTH 2 MEAN	37.71	VARIANCE	666.97	STAN. DEV.			25.83								
STA 23 MONTH 3 MEAN	35.54	VARIANCE	1212.42	STAN. DEV.			34.82								
STA 23 MONTH 4 MEAN	108.57	VARIANCE	6773.50	STAN. DEV.			82.30								
STA 23 MONTH 5 MEAN	284.33	VARIANCE	6474.70	STAN. DEV.			80.47								
STA 23 MONTH 6 MEAN	288.32	VARIANCE	5034.33	STAN. DEV.			70.95								
STA 23 MONTH 7 MEAN	275.31	VARIANCE	6656.11	STAN. DEV.			81.58								
STA 23 MONTH 8 MEAN	289.08	VARIANCE	4279.66	STAN. DEV.			65.42								
STA 23 MONTH 9 MEAN	300.67	VARIANCE	3495.50	STAN. DEV.			59.12								
STA 23 MONTH 10 MEAN	359.04	VARIANCE	8239.31	STAN. DEV.			90.77								
STA 23 MONTH 11 MEAN	359.41	VARIANCE	13752.75	STAN. DEV.			117.27								
STA 23 MONTH 12 MEAN	218.20	VARIANCE	15966.43	STAN. DEV.			126.36								

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 7

STA 23 MONTH 1	MEAN-0.010	STD DEVO.066
STA 23 MONTH 2	MEAN 0.004	STD DEVO.062
STA 23 MONTH 3	MEAN-0.002	STD DEVO.069
STA 23 MONTH 4	MEAN 0.000	STD DEVO.065
STA 23 MONTH 5	MEAN 0.003	STD DEVO.060
STA 23 MONTH 6	MEAN 0.003	STD DEVO.066
STA 23 MONTH 7	MEAN 0.004	STD DEVO.068
STA 23 MONTH 8	MEAN 0.002	STD DEVO.062
STA 23 MONTH 9	MEAN 0.010	STD DEVO.074
STA 23 MONTH 10	MEAN 0.002	STD DEVO.063
STA 23 MONTH 11	MEAN 0.005	STD DEVO.057
STA 23 MONTH 12	MEAN-0.008	STD DEVO.062

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	601	23.9	15.7	12.2	135.2	289.7	414.2	337.8	307.7	312.4	280.9	300.3	57.6	2488.0
23	602	121.9	31.8	53.3	116.6	312.0	360.2	291.9	222.1	283.6	299.7	211.3	267.6	2573.0
23	603	255.2	21.5	14.2	128.7	401.2	334.9	370.4	217.9	210.4	313.1	375.6	237.0	2879.0
23	604	32.8	10.0	26.9	15.6	228.4	260.0	237.0	254.1	254.2	259.3	505.8	369.5	2454.0
23	605	40.8	48.8	10.4	111.0	227.3	321.0	284.1	379.3	304.9	413.5	335.1	71.3	2546.0
23	606	48.6	114.2	157.0	103.7	237.0	264.4	286.6	348.0	301.7	373.1	248.2	241.2	2724.0
23	607	202.9	13.2	6.0	50.4	115.6	311.3	368.8	240.6	351.1	465.8	390.2	147.2	2663.0
23	608	46.9	40.5	16.9	183.9	360.0	205.7	218.1	321.4	324.8	372.0	259.8	167.2	2517.0
23	609	21.2	7.5	11.9	24.9	246.7	223.3	214.3	378.8	380.1	355.3	551.8	334.7	2751.0
23	610	82.9	60.3	23.1	36.4	319.3	228.5	168.5	270.6	322.0	287.3	346.5	35.3	2179.0

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23	611	19.5	15.6	45.0	233.8	388.7	231.1	152.7	253.9	261.2	345.7	571.9	268.4	2788.0
23	612	28.3	31.7	9.7	59.6	294.1	196.6	419.8	385.8	274.9	288.2	539.1	271.4	2800.0
23	613	42.1	10.6	12.1	195.2	299.8	311.4	180.5	267.6	344.2	362.4	273.3	20.9	2319.0
23	614	53.0	54.2	12.4	81.4	308.9	293.1	214.7	286.7	316.5	460.2	447.3	480.5	3007.0
23	615	652.1	66.6	40.5	354.3	395.8	228.2	226.7	273.8	327.0	436.6	332.8	250.1	3586.0
23	616	299.8	91.1	30.6	297.8	312.8	221.2	289.2	302.5	315.2	270.2	273.3	213.3	2916.0
23	617	28.6	15.7	34.7	41.1	359.2	310.9	378.8	290.4	201.2	355.5	405.0	224.2	2645.0
23	618	69.5	24.7	44.2	91.3	250.6	177.1	197.0	327.0	303.7	387.3	274.1	172.9	2320.0
23	619	44.7	8.1	12.7	89.1	270.8	293.6	358.6	356.7	243.3	371.2	350.6	367.8	2769.0
23	620	98.5	11.9	23.7	144.1	371.8	219.9	201.6	316.6	317.1	325.8	382.0	253.1	2667.0
23	621	22.0	39.3	50.1	68.5	387.5	349.9	351.3	246.7	301.0	303.5	411.4	169.8	2700.0
23	622	68.5	28.8	33.3	25.3	274.8	356.4	233.0	308.4	268.2	321.0	518.3	171.7	2607.0
23	623	34.5	23.8	23.3	229.0	214.9	350.6	165.6	327.4	242.7	386.5	236.7	129.1	2364.0
23	624	122.0	72.2	58.3	105.6	361.2	419.5	240.7	314.4	305.4	346.2	280.9	167.9	2793.0
23	625	18.7	21.8	8.8	167.9	180.2	231.1	137.6	248.3	242.0	389.5	380.2	438.7	2466.0
23	626	80.2	24.0	144.2	117.5	337.7	283.4	364.2	291.8	260.0	388.5	311.7	154.5	2758.0
23	627	55.7	43.8	93.7	40.2	302.4	241.0	300.0	449.9	276.3	295.9	381.4	131.9	2612.0
23	628	82.9	39.2	62.8	198.3	391.1	276.1	263.5	313.3	279.5	356.5	340.3	194.5	2796.0
23	629	44.0	16.5	6.0	124.6	229.7	276.2	331.6	276.0	371.1	433.8	255.7	300.6	2667.0
23	630	110.5	30.9	7.5	67.6	371.3	248.7	450.3	303.7	255.8	382.8	307.2	161.7	2700.0
23	631	50.4	17.6	19.3	122.0	177.7	193.4	236.7	313.4	299.9	277.0	345.4	132.4	2184.0
23	632	56.8	59.8	52.9	138.8	348.9	343.3	397.7	322.6	424.2	390.9	215.1	307.2	3059.0
23	633	98.2	49.6	36.8	105.2	360.4	304.7	349.4	286.6	270.0	468.6	247.6	93.3	2671.0
23	634	11.5	28.9	30.7	79.2	239.8	396.7	239.0	266.6	344.2	285.0	392.5	109.1	2424.0
23	635	12.9	10.5	22.4	40.2	159.0	283.8	447.3	277.9	276.5	377.3	299.2	155.0	2361.0
23	636	30.2	21.2	7.4	146.3	285.7	332.2	323.0	197.0	404.2	540.5	202.1	53.6	2542.0
23	637	18.2	13.8	99.7	53.8	295.6	289.9	380.7	251.1	325.2	299.1	324.5	163.0	2515.0
23	638	42.9	10.1	47.5	68.4	145.5	217.2	324.4	280.5	348.0	339.7	272.1	329.0	2424.0
23	639	110.3	33.9	149.2	29.2	319.0	362.9	390.5	371.4	274.6	252.3	414.5	393.0	3101.0
23	640	41.6	22.3	76.5	123.8	295.7	331.2	171.7	324.6	296.0	293.8	656.5	462.4	3097.0
23	641	38.5	76.9	58.4	231.6	321.4	238.7	150.0	165.4	342.0	329.3	338.5	110.1	2401.0
23	642	10.6	2.7	6.0	9.8	236.5	437.7	302.3	372.8	402.7	351.8	275.2	128.9	2539.0
23	643	115.7	33.7	64.6	100.0	196.4	250.8	216.5	213.4	225.5	278.8	392.2	182.8	2271.0
23	644	25.5	15.8	9.2	145.7	312.1	229.1	246.6	262.7	321.5	218.3	508.4	679.6	2975.0
23	645	798.1	18.8	17.7	272.2	323.1	285.5	287.2	283.6	351.2	376.8	344.0	271.9	3631.0
23	646	54.2	21.3	35.5	35.4	278.9	278.7	293.2	408.8	376.7	321.9	314.8	136.3	2555.0
23	647	63.2	29.3	15.0	45.8	251.9	356.2	283.0	193.1	274.2	327.8	607.3	664.7	3111.0
23	648	234.8	66.8	55.8	49.3	217.3	154.4	218.1	223.5	331.7	531.3	583.4	95.0	2761.0
23	649	41.1	39.1	38.2	22.5	233.3	271.1	251.1	222.6	259.0	544.3	179.8	42.6	2144.0
23	650	6.1	20.2	15.0	59.5	351.6	351.9	286.9	299.5	336.3	415.3	256.5	100.2	2499.0
23	651	60.7	19.0	52.1	40.6	266.3	450.1	340.8	352.6	311.6	327.6	294.1	182.0	2699.0
23	652	134.8	46.6	25.9	128.3	226.2	341.0	391.5	333.8	317.6	376.6	238.4	314.0	2875.0
23	653	132.0	39.1	11.4	119.3	323.2	362.9	181.3	241.8	323.9	389.0	337.2	98.8	2559.0
23	654	30.5	101.4	20.9	35.1	322.4	280.6	176.9	215.8	263.6	296.8	390.5	176.9	2313.0
23	655	37.2	19.4	32.4	72.2	382.8	361.9	381.0	385.4	308.1	236.8	530.3	185.0	2931.0
23	656	22.0	41.7	38.7	62.3	257.2	362.9	260.6	302.6	386.2	400.2	351.7	396.0	2883.0
23	657	162.5	28.5	9.7	50.0	270.6	172.0	197.8	346.3	365.3	394.1	281.9	124.5	2404.0
23	658	42.6	24.4	25.6	67.4	305.7	262.0	332.8	246.1	235.2	402.6	291.0	368.4	2604.0
23	659	29.1	77.4	15.5	4.1	156.1	279.9	246.6	349.0	307.9	393.6	446.1	329.0	2635.0
23	660	100.1	69.0	27.1	60.8	360.2	273.6	353.4	213.5	301.9	288.4	236.3	143.0	2427.0
23	661	31.0	31.0	13.3	43.0	161.6	294.2	307.6	272.4	292.0	397.8	462.5	373.7	2681.0
23	662	114.0	45.7	26.7	44.3	163.5	258.1	179.5	305.1	317.3	528.8	474.2	155.9	2614.0
23	663	132.1	40.9	21.7	41.5	344.1	331.9	273.4	205.2	272.6	300.9	679.1	572.5	3215.0
23	664	100.6	158.7	46.5	280.8	376.4	331.0	270.5	261.2	313.6	402.6	434.9	82.8	3060.0

23	665	12.8	15.1	40.5	62.8	279.6	328.0	379.2	353.2	191.2	358.9	298.7	51.9	2373.0
23	666	43.0	23.1	25.1	92.8	355.2	331.9	293.4	319.3	279.7	444.8	624.2	213.9	3046.0
23	667	54.4	18.8	21.2	158.2	322.9	307.8	338.7	324.4	308.1	453.7	285.7	551.2	3145.0
23	668	213.3	17.4	49.8	139.2	327.7	238.3	164.7	244.6	314.3	367.2	312.2	230.0	2618.0
23	669	92.8	245.2	41.8	109.1	342.7	238.3	346.9	347.2	265.9	253.7	441.3	346.4	3071.0
23	670	117.3	60.5	36.0	42.9	274.6	124.4	292.0	251.6	362.1	286.9	370.7	115.0	2334.0
23	671	184.1	8.1	9.9	32.7	206.8	361.6	369.8	343.3	311.3	261.2	376.2	32.0	2497.0
23	672	95.9	71.1	19.7	65.1	323.1	223.1	284.9	311.3	319.7	374.8	443.1	108.6	2641.0
23	673	61.9	43.7	16.0	29.1	227.9	430.4	366.2	263.6	429.1	374.2	356.2	274.2	2872.0
23	674	97.1	25.6	46.3	243.1	382.2	307.4	379.3	454.8	255.6	451.2	482.2	459.0	3583.0
23	675	10.9	20.2	5.1	106.6	329.8	238.5	383.1	279.3	446.9	471.8	308.4	264.8	2866.0
23	676	47.5	156.7	32.8	95.7	363.4	334.1	305.9	260.7	262.3	348.4	217.2	149.6	2575.0
23	677	40.0	52.3	20.3	106.9	346.1	226.9	342.6	263.1	257.4	577.5	320.5	211.1	2764.0
23	678	163.9	34.3	8.8	10.0	242.9	337.1	295.6	283.6	249.6	301.9	274.1	74.0	2277.0
23	679	50.0	26.0	19.0	208.2	311.2	335.1	327.3	285.0	321.0	235.8	496.7	439.9	3055.0
23	680	91.3	41.2	61.6	97.6	219.3	258.5	219.3	255.3	232.4	377.1	379.3	247.4	2478.0
23	681	36.8	27.7	26.6	122.1	178.5	292.8	247.3	374.0	367.0	412.5	337.6	132.6	2558.0
23	682	89.2	89.9	17.3	100.3	364.4	209.3	101.4	174.6	306.8	298.4	402.7	105.7	2259.0
23	683	95.4	52.7	65.2	88.1	379.6	290.7	344.8	393.9	345.3	406.0	201.9	201.2	2865.0
23	684	107.2	22.7	58.2	104.7	369.6	309.1	210.2	384.5	248.3	327.6	551.4	117.8	2812.0
23	685	40.2	22.2	17.3	106.4	217.1	370.5	264.8	256.2	291.5	258.5	592.7	222.9	2661.0
23	686	32.7	35.3	38.8	177.0	220.8	341.1	253.1	320.3	260.6	302.5	461.8	152.6	2597.0
23	687	67.7	56.1	17.8	65.6	167.6	218.4	256.1	251.1	320.5	240.6	344.0	233.8	2240.0
23	688	44.9	42.0	5.8	294.7	362.7	352.8	301.7	297.1	252.0	331.9	278.6	176.5	2742.0
23	689	164.9	18.3	18.7	179.5	378.8	311.8	178.2	323.3	217.6	514.7	224.3	282.9	2814.0
23	690	23.3	10.4	31.5	59.4	236.5	324.6	260.8	368.2	277.7	383.4	267.6	281.7	2526.0
23	691	71.2	32.2	43.9	421.0	391.2	255.1	200.8	331.7	343.8	407.6	340.2	88.5	2927.0
23	692	10.1	16.7	32.1	56.5	215.6	287.5	127.9	201.7	342.2	402.2	271.7	19.4	1984.0
23	693	30.3	25.5	20.2	124.9	264.3	293.7	161.8	259.2	291.5	319.2	310.6	250.3	2351.0
23	694	30.3	8.8	7.7	17.1	92.4	200.3	325.5	313.6	343.9	338.7	505.2	269.7	2453.0
23	695	135.8	23.8	31.3	49.7	297.9	316.3	184.2	294.5	364.6	305.9	208.7	127.0	2340.0
23	696	10.7	32.7	38.8	232.1	313.8	246.5	208.3	275.9	230.5	387.0	414.5	318.6	2710.0
23	697	23.6	81.7	59.9	71.6	140.0	252.3	305.4	216.7	264.9	230.0	268.8	84.0	2000.0
23	698	51.6	20.3	45.3	93.2	392.6	262.7	279.3	200.8	260.2	363.3	285.7	109.4	2364.0
23	699	34.6	28.9	125.4	314.9	254.7	284.7	223.9	254.4	398.8	591.7	323.0	321.2	3157.0
23	700	152.4	36.8	27.3	114.5	305.4	300.8	333.1	185.3	351.6	403.9	367.4	166.7	2744.0

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MAXIMUM VOLUMES FOR PERIOD 7 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	798.1	245.2	157.0	421.0	401.2	450.1	450.3	454.8	446.9	591.7	679.1	679.6	798.1	2788.6	14430.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	6.1	2.7	5.1	4.1	92.4	124.4	101.4	165.4	191.2	218.3	179.8	19.4	2.7	323.3	9845.
STA 23 MONTH 1 MEAN	83.19	VARIANCE	11861.36	STAN.	DEV.	108.91									
STA 23 MONTH 2 MEAN	38.76	VARIANCE	1242.55	STAN.	DEV.	35.25									
STA 23 MONTH 3 MEAN	34.66	VARIANCE	891.69	STAN.	DEV.	29.86									
STA 23 MONTH 4 MEAN	108.46	VARIANCE	6730.97	STAN.	DEV.	82.04									
STA 23 MONTH 5 MEAN	284.00	VARIANCE	6241.60	STAN.	DEV.	79.00									
STA 23 MONTH 6 MEAN	287.53	VARIANCE	4836.18	STAN.	DEV.	69.54									
STA 23 MONTH 7 MEAN	274.48	VARIANCE	6737.46	STAN.	DEV.	82.08									
STA 23 MONTH 8 MEAN	289.82	VARIANCE	4248.12	STAN.	DEV.	65.18									
STA 23 MONTH 9 MEAN	300.86	VARIANCE	3517.50	STAN.	DEV.	59.31									

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STA 23 MONTH 10 MEAN 357.44 VARIANCE 7430.29 STAN. DEV. 86.20
 STA 23 MONTH 11 MEAN 359.94 VARIANCE 13896.87 STAN. DEV. 117.88
 STA 23 MONTH 12 MEAN 218.49 VARIANCE 18978.08 STAN. DEV. 137.76

1

GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 8

STA 23 MONTH 1 MEAN-0.008 STD DEVO.060
 STA 23 MONTH 2 MEAN 0.003 STD DEVO.066
 STA 23 MONTH 3 MEAN 0.006 STD DEVO.064
 STA 23 MONTH 4 MEAN 0.003 STD DEVO.065
 STA 23 MONTH 5 MEAN-0.010 STD DEVO.066
 STA 23 MONTH 6 MEAN-0.008 STD DEVO.064
 STA 23 MONTH 7 MEAN 0.004 STD DEVO.063
 STA 23 MONTH 8 MEAN 0.004 STD DEVO.065
 STA 23 MONTH 9 MEAN-0.004 STD DEVO.062
 STA 23 MONTH 10 MEAN 0.006 STD DEVO.054
 STA 23 MONTH 11 MEAN 0.004 STD DEVO.060
 STA 23 MONTH 12 MEAN 0.006 STD DEVO.054

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	701	14.3	24.9	31.8	51.8	399.6	265.2	136.0	280.0	211.2	418.3	359.1	257.3	2449.0
23	702	240.4	53.2	33.2	74.7	322.0	220.2	293.8	267.6	330.0	296.1	450.6	575.3	3157.0
23	703	48.6	22.2	15.4	33.1	272.7	233.3	384.6	319.3	221.7	365.5	487.5	73.1	2477.0
23	704	6.8	9.0	16.8	79.3	321.1	264.6	304.0	346.7	369.1	381.7	345.0	716.3	3161.0
23	705	196.2	22.9	10.1	17.7	175.2	321.5	284.4	348.6	285.2	454.6	343.7	340.1	2801.0
23	706	13.1	38.5	43.3	120.4	367.8	328.4	362.5	265.2	353.1	354.0	568.1	225.2	3038.0
23	707	129.5	133.5	79.2	253.1	234.6	248.1	297.6	236.4	339.9	484.3	358.3	284.8	3078.0
23	708	28.4	20.4	5.8	73.6	268.0	230.8	385.7	250.1	268.5	346.1	333.7	224.9	2437.0
23	709	65.9	21.7	4.3	40.0	363.5	315.0	462.7	306.0	339.9	286.9	281.1	44.3	2532.0
23	710	103.8	26.8	16.2	83.8	289.3	371.4	285.5	388.8	230.2	405.9	452.5	102.4	2756.0
23	711	37.7	28.4	18.3	70.9	169.2	185.1	105.0	246.5	245.7	356.7	246.7	298.4	2008.0
23	712	90.9	36.0	25.7	250.9	380.4	349.5	269.8	305.2	289.1	220.1	255.2	529.2	3002.0
23	713	211.6	100.9	37.0	197.6	309.3	340.3	330.7	198.1	330.9	365.3	645.8	162.6	3231.0
23	714	44.2	69.6	11.5	194.9	286.6	354.9	378.4	283.9	338.6	293.8	296.4	213.1	2767.0
23	715	52.0	21.9	12.6	88.3	344.0	356.3	405.1	270.8	407.8	375.6	339.8	143.9	2819.0
23	716	47.0	29.6	33.1	95.2	305.5	363.5	342.6	337.4	266.8	310.3	429.7	324.6	2885.0
23	717	128.1	49.3	7.7	19.7	192.0	382.8	317.4	281.2	330.7	316.5	309.4	115.6	2451.0
23	718	193.7	57.9	33.4	49.8	366.4	366.4	382.8	298.0	254.8	300.9	379.0	174.5	2857.0
23	719	60.5	44.8	17.4	20.8	241.7	258.3	152.1	218.0	417.5	244.6	301.1	115.3	2091.0
23	720	60.7	19.7	23.0	31.1	260.0	223.2	290.5	287.9	271.0	301.6	257.5	246.2	2272.0
23	721	274.3	25.2	18.1	61.6	190.2	249.9	241.0	348.1	286.5	456.3	354.0	155.8	2660.0
23	722	37.9	11.8	2.2	53.5	149.0	221.1	336.5	396.6	443.7	409.0	225.4	396.9	2684.0
23	723	37.2	30.3	24.4	44.1	352.6	208.8	190.5	235.8	311.9	251.0	521.9	96.5	2305.0
23	724	58.1	78.1	41.9	58.5	228.3	327.7	257.3	247.3	310.4	393.1	398.2	166.2	2563.0
23	725	60.1	11.7	70.5	245.1	323.1	202.1	181.1	328.8	342.6	331.3	382.1	189.8	2669.0
23	726	65.8	8.7	13.7	65.2	267.1	322.5	173.7	246.8	372.7	586.0	258.5	204.5	2585.0
23	727	28.9	31.3	38.0	55.6	299.1	276.4	104.6	296.5	336.4	262.3	494.4	176.6	2400.0
23	728	17.5	15.7	26.3	14.5	322.7	166.3	172.5	279.7	246.1	506.8	339.3	230.6	2337.0
23	729	14.9	14.3	7.1	152.3	200.4	253.0	187.3	257.2	304.1	418.9	447.2	156.5	2411.0
23	730	49.9	27.7	22.8	220.9	259.8	265.2	351.7	300.2	288.0	477.2	268.2	367.8	2900.0
23	731	141.9	118.2	125.8	100.1	222.8	263.0	368.5	336.2	303.7	493.9	320.0	27.9	2823.0
23	732	24.4	65.6	12.3	50.9	270.1	265.4	329.3	243.0	209.9	261.6	569.8	323.9	2626.0
23	733	72.7	65.4	52.1	71.0	268.1	320.6	248.9	440.4	247.6	357.7	359.4	304.3	2808.0
23	734	19.4	18.3	16.7	37.0	323.7	400.0	166.3	186.8	324.1	328.7	603.2	219.7	2644.0
23	735	43.2	43.0	17.8	14.3	251.2	286.0	196.4	339.1	276.1	421.8	490.7	311.5	2691.0

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23	736	108.7	20.0	12.9	116.5	307.3	295.1	258.1	243.8	297.0	287.1	517.0	163.4	2626.0
23	737	28.2	50.9	26.3	44.5	259.1	369.2	284.7	277.4	366.0	351.9	389.5	265.7	2713.0
23	738	8.6	20.8	75.5	179.5	300.8	358.8	299.4	253.1	238.3	292.4	492.2	157.6	2677.0
23	739	247.4	29.0	15.7	95.0	363.8	369.6	316.4	196.2	216.9	256.6	322.6	286.0	2716.0
23	740	302.0	63.6	32.0	15.8	231.8	292.7	219.6	293.7	260.2	406.5	212.1	417.1	2749.0
23	741	178.0	33.5	21.6	280.0	404.1	260.1	411.4	429.6	348.4	550.4	187.4	70.6	3174.0
23	742	29.5	9.8	9.5	14.9	176.0	246.0	245.7	275.5	322.8	414.3	435.2	540.4	2719.0
23	743	73.1	29.3	125.8	219.4	305.6	238.7	187.6	299.1	286.9	231.4	522.6	332.1	2852.0
23	744	215.5	101.2	32.8	77.6	237.7	251.0	245.8	225.2	400.1	324.0	362.8	233.6	2709.0
23	745	104.3	21.7	34.4	240.7	359.5	255.1	295.1	288.5	422.9	403.1	350.6	200.3	2975.0
23	746	42.2	20.0	31.2	22.5	223.0	262.4	137.1	323.6	297.4	388.8	343.4	67.2	2157.0
23	747	87.2	46.0	102.2	133.1	214.3	317.2	261.3	313.1	326.1	266.5	417.3	257.0	2740.0
23	748	61.9	57.9	17.7	96.5	334.2	204.6	369.5	403.2	303.0	348.3	334.2	501.2	3032.0
23	749	180.1	9.8	18.7	99.6	359.4	416.2	349.4	255.2	262.5	346.8	505.0	262.4	3064.0
23	750	73.2	27.4	82.2	131.4	353.3	234.5	342.5	291.9	273.8	381.6	285.7	243.4	2721.0
23	751	42.6	19.8	20.4	215.7	403.5	375.2	388.6	333.6	269.5	361.7	320.7	99.5	2853.0
23	752	37.7	26.5	50.8	128.5	283.6	180.8	292.5	374.1	205.7	368.4	212.9	289.8	2452.0
23	753	18.0	35.2	33.7	86.3	328.4	250.6	187.0	195.0	265.0	374.9	374.1	120.9	2269.0
23	754	37.9	17.7	32.0	78.3	322.4	292.4	267.7	240.3	297.8	265.3	503.8	134.2	2489.0
23	755	61.3	13.7	27.1	122.4	190.4	304.6	222.7	322.9	210.5	294.3	573.1	197.6	2540.0
23	756	27.1	31.9	27.1	136.9	357.6	292.7	308.8	303.4	273.5	535.4	348.4	119.0	2761.0
23	757	87.2	32.7	77.3	100.3	232.3	248.2	331.8	365.3	313.7	458.1	310.1	272.0	2828.0
23	758	52.9	119.7	108.2	166.6	309.7	308.0	202.4	219.5	274.5	423.3	345.2	125.6	2657.0
23	759	76.9	59.4	58.3	121.0	360.7	248.0	180.8	205.6	321.3	330.6	368.0	122.7	2454.0
23	760	39.9	75.9	14.2	8.6	57.8	255.9	207.6	311.5	361.9	340.9	167.1	83.0	1925.0
23	761	20.5	19.2	18.5	99.7	340.8	257.9	380.0	328.5	331.9	350.8	334.8	140.0	2624.0
23	762	38.1	53.0	68.0	129.3	330.0	326.0	191.8	202.8	283.7	449.8	232.4	127.3	2432.0
23	763	17.8	10.1	14.8	231.9	381.1	203.1	174.4	310.2	323.0	317.9	312.9	253.5	2551.0
23	764	225.1	55.6	15.1	79.2	229.2	238.8	275.2	290.8	221.7	255.4	440.4	262.2	2588.0
23	765	94.0	41.6	17.9	85.2	312.7	276.0	183.9	261.7	325.0	377.2	528.5	91.9	2596.0
23	766	15.7	58.1	17.2	36.5	166.7	257.6	246.8	367.1	349.2	477.3	278.7	176.9	2449.0
23	767	13.0	27.5	83.8	180.5	246.0	335.2	299.7	310.3	426.9	313.1	296.1	133.6	2665.0
23	768	45.7	22.3	30.2	162.7	222.4	281.0	229.4	355.4	259.2	375.4	275.6	57.2	2315.0
23	769	26.6	13.4	38.0	78.6	394.1	347.7	292.1	310.3	252.9	300.0	215.8	298.0	2568.0
23	770	71.0	58.2	32.9	98.7	375.1	308.2	178.6	256.0	269.2	233.8	499.7	587.8	2970.0
23	771	50.1	16.1	36.3	373.2	380.2	389.3	166.4	166.0	283.5	365.3	342.8	87.8	2655.0
23	772	16.9	31.5	5.4	52.0	270.1	264.8	230.3	226.8	236.3	428.6	390.5	103.7	2256.0
23	773	111.4	10.4	30.0	44.5	335.1	301.7	383.7	315.0	347.7	359.7	217.8	126.8	2584.0
23	774	372.0	150.0	28.5	49.3	273.6	307.2	348.7	305.1	322.3	278.5	422.1	480.6	3338.0
23	775	27.3	6.7	14.3	14.7	307.5	381.1	197.5	345.8	373.8	415.6	266.2	120.1	2471.0
23	776	88.1	17.7	52.9	161.1	216.2	254.1	324.2	332.4	320.3	288.2	341.6	60.5	2456.0
23	777	12.6	14.0	7.8	59.6	218.5	248.1	390.8	420.1	306.9	501.1	349.5	195.4	2725.0
23	778	154.7	23.7	10.4	112.9	243.6	211.0	261.5	318.7	257.7	335.5	178.3	42.5	2150.0
23	779	25.8	50.4	72.6	252.1	270.9	199.3	240.0	237.0	305.2	511.2	306.2	62.6	2533.0
23	780	60.4	9.9	16.3	86.1	183.0	451.3	378.8	273.6	261.1	463.7	317.8	101.3	2603.0
23	781	17.6	13.8	58.0	84.3	337.5	216.4	254.9	347.0	312.7	297.7	169.9	142.2	2253.0
23	782	133.4	12.5	21.9	97.0	323.1	245.6	277.9	313.9	373.0	460.2	476.6	882.2	3618.0
23	783	217.5	42.8	121.7	289.9	270.9	261.5	260.1	325.0	359.4	362.2	367.2	558.7	3436.0
23	784	326.8	31.3	95.2	91.6	224.6	313.4	292.1	314.3	243.6	276.9	381.5	86.8	2679.0
23	785	28.6	39.5	12.1	175.4	351.9	397.5	266.2	166.2	315.7	400.0	320.6	179.6	2654.0
23	786	49.3	48.8	25.6	56.7	138.7	236.3	333.5	305.6	331.3	303.2	337.2	134.6	2302.0
23	787	14.2	15.0	25.1	68.4	316.3	374.7	351.7	228.4	324.3	362.8	452.1	262.8	2795.0
23	788	22.3	27.9	41.7	194.1	245.7	240.0	319.8	321.4	288.4	373.2	351.5	54.6	2480.0
23	789	81.2	52.8	19.0	262.3	382.4	367.6	208.4	282.6	271.5	386.6	282.0	174.2	2771.0

23	790	59.0	36.4	7.8	76.4	370.2	257.4	304.2	254.5	287.1	465.6	258.8	79.1	2455.0
23	791	43.3	25.4	69.6	37.5	356.2	201.4	335.4	225.9	334.2	270.8	318.4	333.3	2549.0
23	792	224.5	60.2	29.1	169.9	399.6	262.7	310.9	304.3	303.6	300.9	330.3	49.9	2746.0
23	793	39.9	9.4	47.8	27.4	210.9	183.0	232.8	212.2	335.7	390.4	487.5	218.3	2394.0
23	794	49.2	154.3	33.8	129.2	319.0	382.7	269.7	238.9	334.1	335.3	301.2	156.9	2704.0
23	795	102.4	97.4	11.8	96.2	258.1	322.2	449.8	288.0	267.7	363.4	261.8	208.8	2727.0
23	796	88.9	66.8	59.0	267.8	328.9	290.0	308.8	269.7	312.1	350.8	322.9	122.5	2789.0
23	797	30.1	6.5	34.6	45.4	286.9	348.0	251.2	381.9	355.5	294.5	468.4	314.9	2817.0
23	798	71.8	7.9	18.5	199.6	289.0	490.6	276.0	234.3	330.7	330.4	309.6	143.7	2704.0
23	799	32.9	21.8	34.3	27.7	150.1	267.3	311.7	297.0	250.2	331.5	274.0	154.2	2153.0
23	800	154.2	54.6	38.9	143.6	370.4	416.0	305.8	463.9	327.8	251.0	530.4	308.5	3366.0

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MAXIMUM VOLUMES FOR PERIOD 8 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	372.0	154.3	125.8	373.2	404.1	490.6	462.7	463.9	443.7	586.0	645.8	882.2	882.2	2783.8	14145.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	6.8	6.5	2.2	8.6	57.8	166.3	104.6	166.0	205.7	220.1	167.1	27.9	2.2	310.2	10178.
STA 23 MONTH 1 MEAN	80.61	VARIANCE	5993.58	STAN. DEV.	77.42										
STA 23 MONTH 2 MEAN	38.30	VARIANCE	965.41	STAN. DEV.	31.07										
STA 23 MONTH 3 MEAN	34.31	VARIANCE	780.73	STAN. DEV.	27.94										
STA 23 MONTH 4 MEAN	108.07	VARIANCE	6104.16	STAN. DEV.	78.13										
STA 23 MONTH 5 MEAN	283.30	VARIANCE	5778.54	STAN. DEV.	76.02										
STA 23 MONTH 6 MEAN	286.32	VARIANCE	4933.80	STAN. DEV.	70.24										
STA 23 MONTH 7 MEAN	274.80	VARIANCE	6702.06	STAN. DEV.	81.87										
STA 23 MONTH 8 MEAN	287.03	VARIANCE	4061.56	STAN. DEV.	63.73										
STA 23 MONTH 9 MEAN	301.10	VARIANCE	3528.47	STAN. DEV.	59.40										
STA 23 MONTH 10 MEAN	358.91	VARIANCE	7215.21	STAN. DEV.	84.94										
STA 23 MONTH 11 MEAN	356.93	VARIANCE	11739.50	STAN. DEV.	108.35										
STA 23 MONTH 12 MEAN	218.25	VARIANCE	23434.80	STAN. DEV.	153.08										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 9

STA 23 MONTH 1	MEAN 0.005	STD DEVO.064
STA 23 MONTH 2	MEAN-0.006	STD DEVO.066
STA 23 MONTH 3	MEAN-0.008	STD DEVO.065
STA 23 MONTH 4	MEAN-0.007	STD DEVO.058
STA 23 MONTH 5	MEAN-0.002	STD DEVO.066
STA 23 MONTH 6	MEAN 0.005	STD DEVO.069
STA 23 MONTH 7	MEAN-0.003	STD DEVO.061
STA 23 MONTH 8	MEAN 0.009	STD DEVO.073
STA 23 MONTH 9	MEAN 0.004	STD DEVO.067
STA 23 MONTH 10	MEAN 0.009	STD DEVO.055
STA 23 MONTH 11	MEAN-0.006	STD DEVO.064
STA 23 MONTH 12	MEAN-0.013	STD DEVO.066

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	801	105.5	43.3	34.3	202.3	337.7	346.4	273.2	250.9	367.4	289.4	286.4	51.9	2587.0
23	802	45.1	36.3	25.9	56.8	381.2	250.6	254.6	334.0	252.0	360.8	256.1	49.9	2304.0
23	803	14.7	28.2	14.2	25.6	274.5	446.1	248.7	255.1	317.6	318.4	323.2	124.5	2392.0
23	804	33.8	8.6	47.8	85.1	345.8	320.2	143.7	385.5	392.6	253.0	260.9	86.7	2366.0
23	805	21.3	122.1	18.8	102.7	309.0	375.0	218.2	306.8	263.2	318.9	322.1	162.9	2541.0
23	806	15.8	61.2	23.3	20.9	172.2	325.4	267.4	340.0	290.8	289.1	495.6	340.5	2641.0

23	807	65.0	172.5	11.0	135.2	373.8	381.5	377.2	268.7	228.6	362.7	457.3	156.6	2991.0
23	808	36.1	92.1	41.4	96.5	347.1	204.2	343.3	289.8	261.0	523.4	416.2	130.0	2780.0
23	809	153.0	64.2	80.2	118.9	243.6	192.0	113.5	310.0	283.5	337.0	270.2	42.5	2207.0
23	810	4.2	7.8	4.8	63.5	396.0	298.1	386.7	422.9	297.0	293.8	312.2	334.2	2821.0
23	811	63.5	77.1	33.1	35.9	234.8	239.4	178.1	191.1	252.0	359.2	313.8	99.9	2077.0
23	812	23.8	11.0	47.9	112.1	227.8	264.9	250.0	307.1	195.4	398.8	622.1	891.1	3352.0
23	813	36.7	22.6	100.5	120.4	306.2	293.8	275.4	345.0	314.0	352.7	395.3	195.0	2757.0
23	814	35.3	43.7	12.7	88.8	292.9	298.5	426.5	398.6	278.4	317.7	302.0	217.0	2712.0
23	815	50.8	17.8	15.6	66.6	360.7	286.2	141.2	239.2	285.5	512.5	551.8	451.2	2980.0
23	816	147.8	63.5	16.7	47.0	87.0	246.3	194.7	311.2	392.4	568.2	209.9	125.9	2410.0
23	817	63.9	44.3	8.6	58.1	274.3	265.2	188.7	228.8	401.9	231.0	257.9	28.8	2052.0
23	818	29.7	17.9	19.7	186.7	371.5	291.4	297.3	330.6	336.7	289.4	290.7	219.9	2682.0
23	819	31.9	64.6	14.5	78.0	399.2	330.1	359.3	309.9	284.6	303.8	351.6	365.4	2893.0
23	820	94.6	30.4	41.8	47.5	344.3	381.4	331.2	313.0	315.6	268.0	515.5	390.9	3074.0
23	821	79.3	13.3	38.5	128.0	372.6	210.5	224.5	306.5	322.1	350.4	258.6	117.5	2423.0
23	822	226.0	22.3	12.0	136.2	304.5	210.6	186.1	233.6	264.0	364.1	309.1	137.6	2406.0
23	823	30.4	39.8	24.0	293.9	382.4	373.9	394.0	310.7	213.6	421.7	284.4	79.8	2849.0
23	824	67.9	44.5	20.5	68.6	365.3	268.6	303.9	390.2	326.2	363.7	484.0	401.6	3106.0
23	825	53.1	11.4	16.8	79.4	125.1	230.6	369.1	375.6	323.9	307.2	303.1	165.7	2361.0
23	826	40.6	31.0	22.4	111.2	276.1	332.8	216.1	205.6	334.4	316.8	508.0	128.3	2523.0
23	827	164.2	16.9	2.5	28.1	272.2	260.4	365.7	306.7	326.2	432.1	390.8	280.2	2846.0
23	828	146.7	30.5	19.9	207.5	306.1	351.8	166.0	273.2	255.9	250.5	353.5	139.2	2503.0
23	829	53.6	15.6	14.7	26.0	287.6	307.4	256.6	274.0	328.9	444.9	413.7	303.9	2729.0
23	830	87.9	31.1	15.1	26.5	239.9	211.3	317.0	311.2	392.7	487.0	266.9	314.4	2701.0
23	831	75.5	25.3	14.3	173.7	357.6	281.5	160.4	240.1	266.6	539.9	473.5	265.8	2875.0
23	832	430.7	48.8	99.8	238.2	361.3	279.8	244.5	297.2	330.5	426.5	222.4	46.0	3026.0
23	833	21.0	49.8	21.1	86.1	343.0	371.2	357.1	170.8	311.4	314.8	221.7	157.6	2426.0
23	834	37.3	30.5	30.4	190.7	358.8	297.5	323.5	268.0	355.2	570.2	278.6	162.6	2905.0
23	835	28.7	25.9	52.9	125.5	330.8	335.7	325.6	301.2	358.3	320.7	674.9	495.8	3377.0
23	836	32.2	63.3	47.2	134.6	247.0	203.3	231.9	296.6	309.6	326.4	380.0	288.2	2560.0
23	837	789.9	42.6	34.1	159.4	251.5	347.4	354.4	255.7	230.0	379.6	412.9	315.4	3572.0
23	838	126.3	41.3	14.7	83.4	53.3	307.3	230.3	351.3	252.7	347.0	266.6	405.6	2479.0
23	839	13.7	12.9	12.0	43.8	359.3	359.3	345.5	307.6	234.5	341.9	182.9	260.7	2475.0
23	840	149.0	21.9	21.0	132.7	223.4	295.5	314.9	313.6	314.4	424.3	242.3	190.8	2643.0
23	841	77.8	18.3	10.5	53.9	393.1	353.1	236.5	430.0	309.1	360.9	391.2	288.7	2923.0
23	842	44.8	56.5	87.5	270.4	345.7	374.8	460.0	258.0	360.5	474.5	458.7	42.0	3234.0
23	843	28.8	5.6	34.0	138.4	248.0	381.0	259.7	454.6	360.6	342.2	406.2	181.4	2841.0
23	844	426.5	34.5	30.0	210.0	361.9	307.7	240.1	238.3	300.3	245.5	373.2	175.3	2943.0
23	845	103.6	23.3	34.3	167.7	235.5	344.3	240.7	232.9	415.8	369.6	353.5	397.0	2920.0
23	846	65.4	10.1	4.6	66.6	347.1	297.2	273.9	227.9	268.9	282.9	257.5	186.2	2289.0
23	847	44.0	22.9	71.7	107.9	351.6	324.2	272.7	309.4	211.9	402.4	455.9	265.7	2841.0
23	848	76.5	71.9	32.0	45.6	250.9	241.4	241.2	205.4	319.8	380.0	360.9	139.3	2365.0
23	849	45.4	31.8	39.9	28.8	287.1	260.2	394.2	381.5	334.3	355.6	287.4	267.0	2713.0
23	850	209.7	18.9	31.7	212.7	214.0	156.3	132.5	274.2	263.1	372.4	250.5	266.0	2401.0
23	851	102.6	74.5	28.8	274.0	331.2	343.8	407.2	357.3	331.7	239.4	443.7	355.5	3291.0
23	852	42.1	72.2	35.0	232.2	344.5	235.1	409.7	242.4	287.8	479.1	233.1	129.1	2742.0
23	853	33.8	20.7	34.6	44.1	364.7	270.8	236.7	271.0	232.7	468.3	295.4	111.2	2385.0
23	854	56.9	45.3	59.5	43.6	343.0	263.1	328.4	246.6	269.0	412.7	272.9	206.0	2547.0
23	855	107.3	20.0	21.2	26.7	178.8	270.6	231.4	303.5	216.0	313.4	374.4	170.5	2232.0
23	856	76.3	6.3	106.4	192.5	371.8	303.2	292.4	232.6	290.1	293.1	355.2	414.9	2933.0
23	857	32.7	23.5	61.3	259.3	348.7	211.4	341.4	199.2	392.4	273.3	495.0	113.8	2751.0
23	858	16.5	40.7	20.3	56.8	333.3	270.1	386.4	273.8	321.8	294.0	454.5	255.5	2723.0
23	859	59.2	52.8	173.2	313.1	293.2	230.9	350.3	347.2	332.4	356.7	247.8	39.1	2795.0
23	860	23.5	39.2	19.1	45.9	289.8	172.2	169.5	319.7	328.6	300.2	179.7	117.2	2006.0

23	861	40.6	24.1	40.8	69.8	304.8	197.9	253.3	273.3	279.3	314.3	400.1	127.5	2325.0
23	862	13.8	9.6	7.0	10.8	135.0	326.6	313.2	341.6	290.5	453.5	337.8	327.1	2569.0
23	863	40.9	38.4	17.0	104.9	336.2	214.2	301.6	364.6	267.0	231.2	357.8	53.8	2328.0
23	864	53.4	45.8	81.6	109.9	253.3	235.0	273.3	206.6	326.0	408.3	396.1	93.7	2483.0
23	865	165.3	65.5	23.2	19.0	224.7	307.3	174.7	233.4	208.2	260.0	274.3	194.7	2149.0
23	866	33.7	55.9	30.9	357.8	307.7	291.1	154.2	225.7	309.4	305.0	287.8	139.3	2499.0
23	867	48.3	144.5	121.8	58.5	289.9	244.0	239.3	395.3	413.9	372.9	437.3	387.7	3154.0
23	868	71.4	32.6	37.4	106.6	320.9	330.8	126.5	322.7	328.9	376.7	304.9	67.9	2429.0
23	869	36.8	41.0	18.4	443.6	306.4	190.4	289.4	192.8	342.1	371.7	396.9	458.5	3088.0
23	870	118.0	41.3	25.5	113.5	203.1	302.3	254.0	300.4	269.1	407.9	557.9	182.1	2775.0
23	871	35.1	21.4	12.5	68.2	210.9	374.6	320.3	205.4	315.1	456.3	228.1	28.2	2275.0
23	872	10.8	24.1	27.5	112.5	266.8	307.6	364.5	352.8	317.8	352.6	740.5	441.4	3319.0
23	873	41.1	14.6	7.6	23.0	302.7	287.8	367.6	272.1	355.3	365.0	461.8	67.9	2568.0
23	874	64.2	52.6	40.8	206.4	347.0	352.4	242.7	320.3	303.1	507.0	312.2	298.1	3046.0
23	875	390.7	83.1	91.4	37.0	217.4	301.6	204.3	302.9	364.6	381.6	414.0	125.3	2914.0
23	876	30.9	8.5	25.0	60.9	204.0	375.5	217.8	238.2	301.8	336.9	390.3	229.9	2420.0
23	877	35.4	6.4	14.5	204.8	336.2	454.7	292.0	314.3	262.8	283.3	249.0	300.8	2753.0
23	878	46.8	22.3	28.6	76.9	361.7	288.3	414.5	224.5	335.8	441.6	257.0	137.4	2635.0
23	879	44.8	24.3	24.3	19.0	111.7	166.2	241.0	220.2	308.8	268.0	521.9	309.9	2260.0
23	880	70.1	33.8	92.5	245.9	364.5	279.9	311.1	268.8	213.1	248.2	733.6	492.5	3355.0
23	881	313.9	43.7	68.7	90.1	341.4	324.0	141.7	285.3	309.6	562.7	264.4	142.4	2888.0
23	882	141.4	14.5	66.4	68.8	348.4	362.5	268.7	310.2	267.3	296.5	407.0	205.3	2757.0
23	883	35.7	17.8	30.1	148.7	361.3	388.7	246.5	372.1	312.8	347.1	323.8	178.9	2764.0
23	884	49.6	42.5	32.5	91.9	359.0	332.6	347.9	251.8	281.0	398.6	412.5	323.6	2927.0
23	885	100.9	10.4	8.0	27.9	357.2	310.0	270.3	303.1	282.2	311.5	314.9	419.3	2715.0
23	886	131.6	41.3	17.6	212.0	372.6	368.4	289.4	233.6	275.2	359.9	334.3	207.8	2844.0
23	887	85.0	22.7	8.5	49.5	240.0	198.7	188.9	372.9	229.3	287.6	322.0	221.2	2227.0
23	888	31.5	31.6	12.0	59.6	192.6	298.5	284.7	248.5	275.0	267.9	467.3	531.5	2704.0
23	889	47.7	25.3	21.6	25.3	213.5	260.2	371.7	274.0	356.0	373.8	325.0	151.5	2447.0
23	890	16.9	3.5	18.7	14.7	161.1	332.0	419.4	433.9	329.0	255.3	641.9	184.8	2811.0
23	891	54.2	32.4	16.0	174.4	197.4	229.8	214.4	278.5	237.4	435.7	244.2	181.0	2294.0
23	892	173.2	48.5	20.1	39.5	317.1	268.8	224.4	278.2	325.1	396.7	318.2	202.0	2611.0
23	893	17.0	90.1	93.1	106.2	171.9	222.6	353.7	326.0	291.0	369.9	342.9	219.1	2604.0
23	894	12.5	20.6	23.1	61.5	319.7	211.6	232.0	337.6	400.4	304.1	418.1	139.9	2483.0
23	895	53.5	48.1	19.6	88.8	276.4	164.1	317.2	315.2	245.6	423.6	303.3	74.9	2331.0
23	896	21.3	35.5	6.6	126.3	120.0	218.8	285.4	225.3	378.0	369.3	385.7	74.5	2247.0
23	897	19.8	10.5	52.3	26.2	218.0	222.7	247.4	275.4	337.9	440.0	296.5	171.6	2318.0
23	898	44.6	30.2	79.4	50.6	248.3	343.7	296.2	265.9	364.3	302.4	548.7	386.1	2960.0
23	899	367.7	128.9	33.7	35.6	238.5	357.5	344.4	286.8	370.6	350.5	208.8	104.3	2828.0
23	900	131.9	15.5	17.5	63.6	254.6	326.1	211.7	183.6	249.3	470.7	369.0	216.1	2511.0

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MAXIMUM VOLUMES FOR PERIOD 9 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	789.9	172.5	173.2	443.6	399.2	454.7	460.0	454.6	415.8	570.2	740.5	891.1	891.1	2664.6	14002.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	4.2	3.5	2.5	10.8	53.3	156.3	113.5	170.8	195.4	231.0	179.7	28.2	2.5	303.7	9802.
STA 23 MONTH 1 MEAN	85.10	VARIANCE	12249.40	STAN.	DEV.	110.68									
STA 23 MONTH 2 MEAN	38.25	VARIANCE	872.75	STAN.	DEV.	29.54									
STA 23 MONTH 3 MEAN	34.78	VARIANCE	877.39	STAN.	DEV.	29.62									
STA 23 MONTH 4 MEAN	109.59	VARIANCE	7099.75	STAN.	DEV.	84.26									
STA 23 MONTH 5 MEAN	285.91	VARIANCE	6636.56	STAN.	DEV.	81.47									

STA 23 MONTH 6 MEAN 287.28 VARIANCE 4832.67 STAN. DEV. 69.52
 STA 23 MONTH 7 MEAN 275.61 VARIANCE 6708.14 STAN. DEV. 81.90
 STA 23 MONTH 8 MEAN 289.83 VARIANCE 4303.05 STAN. DEV. 65.60
 STA 23 MONTH 9 MEAN 301.89 VARIANCE 3452.26 STAN. DEV. 58.76
 STA 23 MONTH 10 MEAN 356.89 VARIANCE 7453.29 STAN. DEV. 86.33
 STA 23 MONTH 11 MEAN 360.24 VARIANCE 14613.67 STAN. DEV. 120.89
 STA 23 MONTH 12 MEAN 218.26 VARIANCE 19905.38 STAN. DEV. 141.09

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 10

STA 23 MONTH 1 MEAN 0.001 STD DEVO.068
 STA 23 MONTH 2 MEAN 0.003 STD DEVO.064
 STA 23 MONTH 3 MEAN 0.004 STD DEVO.061
 STA 23 MONTH 4 MEAN 0.000 STD DEVO.069
 STA 23 MONTH 5 MEAN 0.000 STD DEVO.067
 STA 23 MONTH 6 MEAN-0.003 STD DEVO.059
 STA 23 MONTH 7 MEAN 0.011 STD DEVO.069
 STA 23 MONTH 8 MEAN-0.001 STD DEVO.063
 STA 23 MONTH 9 MEAN 0.007 STD DEVO.054
 STA 23 MONTH 10 MEAN-0.001 STD DEVO.061
 STA 23 MONTH 11 MEAN-0.004 STD DEVO.057
 STA 23 MONTH 12 MEAN-0.005 STD DEVO.061

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
23	901	139.5	55.6	20.8	59.3	315.9	268.0	435.2	252.3	309.8	372.5	439.7	77.6	2747.0
23	902	29.3	20.7	11.4	107.0	380.4	199.3	139.4	287.1	284.0	522.2	297.0	127.5	2403.0
23	903	78.1	20.5	5.0	55.2	277.5	226.9	338.6	268.6	347.6	479.2	378.6	268.1	2745.0
23	904	34.7	16.3	35.1	84.4	297.3	277.8	211.1	270.9	253.8	456.0	281.5	92.2	2311.0
23	905	94.7	29.4	13.2	55.9	354.7	295.7	253.3	355.3	299.1	392.1	393.4	31.8	2568.0
23	906	31.8	84.3	58.1	77.1	352.2	309.8	219.8	208.7	260.9	443.4	283.0	423.6	2753.0
23	907	54.9	19.3	28.2	163.0	371.2	326.6	141.7	175.1	230.9	322.0	458.9	534.5	2826.0
23	908	156.1	36.2	5.5	45.9	281.0	244.9	280.8	241.6	339.1	259.3	744.9	465.6	3101.0
23	909	71.8	26.4	99.3	407.3	303.6	434.8	415.2	366.8	409.4	246.9	337.0	136.6	3255.0
23	910	16.6	12.8	5.4	26.8	207.2	267.8	254.9	307.1	340.3	438.6	561.9	220.3	2660.0
23	911	53.6	133.7	74.4	79.8	222.7	222.8	291.2	273.2	205.1	435.6	391.4	402.8	2787.0
23	912	273.4	35.1	22.4	44.0	225.1	268.5	186.7	380.2	277.8	366.6	384.4	283.1	2747.0
23	913	39.1	41.7	82.7	145.7	263.3	313.4	268.2	422.9	329.4	373.7	360.7	148.8	2790.0
23	914	33.7	37.9	7.5	41.7	240.3	179.8	326.2	291.0	326.7	366.2	243.6	241.9	2337.0
23	915	92.3	107.0	40.9	34.0	300.6	277.3	301.3	319.0	235.9	387.3	378.9	192.3	2666.0
23	916	121.4	20.1	28.1	112.9	181.8	387.7	393.9	309.1	300.3	351.6	625.3	414.5	3246.0
23	917	17.7	25.0	30.6	154.5	389.9	355.3	218.4	234.4	300.2	468.9	346.0	202.9	2744.0
23	918	48.2	90.9	40.7	140.1	234.0	358.8	268.8	254.6	323.0	319.7	443.6	163.9	2688.0
23	919	34.4	25.4	71.7	394.1	386.5	401.3	315.7	257.1	310.5	344.0	286.4	136.1	2961.0
23	920	46.0	58.5	39.5	66.6	129.6	314.1	370.5	193.6	318.9	256.0	591.9	91.6	2478.0
23	921	65.7	39.1	25.6	107.3	248.7	222.3	150.0	226.3	318.4	386.5	285.5	130.0	2205.0
23	922	29.0	39.0	23.6	101.5	299.1	286.5	205.7	270.8	235.4	439.7	265.0	174.1	2371.0
23	923	22.0	34.1	37.7	27.0	282.0	245.8	316.6	191.8	264.4	492.6	291.2	86.5	2293.0
23	924	53.2	31.4	41.6	146.9	308.6	323.5	285.8	257.0	405.8	392.9	289.4	244.3	2780.0
23	925	61.3	85.3	30.4	41.5	219.6	344.4	357.0	314.6	365.9	350.7	444.5	187.2	2802.0
23	926	332.7	104.3	51.4	84.1	310.5	231.4	182.1	241.9	347.5	373.6	299.2	227.0	2785.0
23	927	127.6	62.7	36.3	154.3	255.9	218.2	165.2	289.3	285.7	372.1	290.7	137.1	2395.0
23	928	168.2	15.7	3.3	4.7	187.1	233.6	304.0	360.5	292.0	209.9	394.6	108.9	2283.0
23	929	33.7	23.3	30.0	122.3	262.3	395.1	310.8	327.1	300.2	352.3	319.0	137.4	2612.0
23	930	106.3	72.5	39.2	106.4	332.9	222.6	159.9	247.8	361.7	282.4	370.7	81.6	2384.0
23	931	16.3	19.5	79.2	203.4	197.9	216.1	307.3	316.8	277.1	329.3	433.6	460.9	2856.0

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23	932	128.7	17.7	23.1	40.6	205.6	293.9	272.6	198.2	230.4	398.3	373.6	253.0	2437.0
23	933	81.7	21.1	25.0	90.7	277.0	218.3	242.0	307.5	317.5	492.3	225.9	49.7	2348.0
23	934	106.3	19.0	10.9	22.6	219.1	267.7	365.6	357.7	374.2	326.4	382.9	56.2	2509.0
23	935	45.9	91.7	58.3	45.2	323.6	310.0	294.5	432.9	269.4	315.3	335.1	166.4	2687.0
23	936	38.9	36.5	51.4	36.2	260.0	252.9	354.1	251.8	320.3	310.6	257.1	105.0	2275.0
23	937	21.7	46.9	23.9	285.4	368.7	307.7	295.8	235.6	266.6	249.3	602.4	267.2	2972.0
23	938	134.4	37.1	29.1	192.1	330.9	214.2	234.8	244.6	207.9	424.0	572.0	164.4	2785.0
23	939	26.7	44.5	146.6	193.9	382.4	201.0	111.8	238.3	310.9	361.3	265.9	64.0	2347.0
23	940	52.9	6.5	15.1	61.4	252.8	255.6	190.1	202.5	352.8	409.4	263.9	276.4	2338.0
23	941	17.5	38.6	13.9	120.6	313.6	396.3	293.7	341.9	305.3	258.8	389.0	640.1	3131.0
23	942	499.3	30.2	14.3	63.5	304.0	358.2	284.0	311.4	246.0	394.3	537.6	103.9	3146.0
23	943	10.7	19.4	5.4	95.3	370.2	224.6	345.7	382.4	339.3	307.9	336.1	270.9	2707.0
23	944	31.7	63.4	51.6	34.3	223.0	336.5	320.0	315.6	254.3	343.3	239.3	47.0	2259.0
23	945	21.1	10.0	17.7	37.5	217.3	404.4	407.5	316.3	388.5	389.0	354.0	356.3	2918.0
23	946	44.0	13.1	33.8	45.6	166.8	284.2	309.3	243.1	293.0	220.3	301.0	124.6	2079.0
23	947	104.5	77.9	86.7	55.7	153.2	267.2	204.0	278.8	392.1	354.3	248.6	192.7	2416.0
23	948	16.4	21.6	26.1	25.7	386.6	378.6	239.3	236.0	370.9	358.1	286.8	69.1	2416.0
23	949	21.4	68.9	25.7	119.6	202.2	280.5	343.6	311.3	262.3	208.1	491.0	414.6	2749.0
23	950	23.9	28.9	29.7	101.3	240.2	298.0	301.8	372.7	363.7	477.3	798.1	430.3	3466.0
23	951	90.2	127.4	105.5	55.2	244.3	280.3	316.6	359.9	306.7	378.5	638.2	549.8	3451.0
23	952	64.4	105.2	27.9	38.9	299.6	304.2	300.2	225.9	248.2	367.8	255.5	101.0	2339.0
23	953	71.1	14.2	54.4	133.9	381.5	280.6	105.6	270.5	331.1	350.3	359.8	172.4	2524.0
23	954	98.2	29.2	16.7	15.9	180.9	344.8	286.2	322.1	265.6	343.8	315.0	55.9	2275.0
23	955	23.2	31.1	20.5	96.0	366.2	358.4	182.2	295.3	307.8	438.1	363.5	80.0	2562.0
23	956	46.1	47.9	62.8	44.7	209.2	333.8	307.3	277.1	317.1	369.4	227.3	227.2	2469.0
23	957	108.7	21.8	89.3	205.3	373.3	235.6	267.2	252.1	326.2	317.5	381.0	205.9	2783.0
23	958	70.5	9.4	22.2	180.3	273.7	322.1	222.5	261.9	370.3	307.9	292.0	162.2	2493.0
23	959	45.1	78.8	11.8	155.5	187.4	354.6	181.6	306.2	238.5	322.3	502.4	465.3	2849.0
23	960	143.4	33.1	52.9	325.4	299.1	329.8	287.4	291.0	264.9	338.3	229.5	137.4	2730.0
23	961	15.0	59.7	9.1	37.0	120.5	261.6	170.5	305.8	324.8	468.8	321.4	150.6	2246.0
23	962	429.2	34.1	37.6	93.6	369.9	283.4	202.9	310.3	288.7	323.8	353.5	290.9	3019.0
23	963	259.4	13.0	27.5	52.4	314.6	473.3	252.4	245.1	311.4	297.3	434.0	281.7	2960.0
23	964	157.4	63.4	92.9	99.7	295.1	322.6	242.0	292.8	300.7	343.4	308.4	113.7	2632.0
23	965	10.4	45.3	14.3	74.0	344.3	269.1	380.5	368.1	258.3	428.8	395.6	207.9	2796.0
23	966	13.0	24.8	66.5	68.2	400.8	283.2	195.1	305.0	285.3	329.2	336.3	126.2	2433.0
23	967	37.0	41.1	8.9	19.4	229.2	323.0	277.1	229.9	290.4	302.2	369.6	382.3	2509.0
23	968	124.0	43.8	43.9	175.2	390.9	314.8	450.0	350.8	222.9	449.0	372.5	305.7	3244.0
23	969	77.0	33.8	52.7	124.6	365.3	280.2	220.0	364.8	254.8	292.1	211.9	182.9	2461.0
23	970	61.2	26.0	15.4	237.8	285.9	272.6	342.5	244.9	314.7	280.4	218.9	68.4	2369.0
23	971	42.8	14.4	8.0	74.1	399.5	254.8	227.5	305.6	280.0	326.3	278.1	143.3	2354.0
23	972	12.8	52.5	23.1	144.9	349.0	181.9	412.4	436.8	223.4	265.0	269.6	102.2	2473.0
23	973	286.7	16.8	25.4	95.1	378.3	235.1	306.9	253.1	283.5	325.8	316.1	71.3	2593.0
23	974	108.4	22.1	6.8	28.1	323.4	273.5	347.7	293.6	258.6	438.1	387.5	222.2	2709.0
23	975	456.1	9.4	32.6	200.1	389.2	371.9	238.5	201.9	316.8	435.1	260.3	134.0	3045.0
23	976	188.1	37.6	24.3	144.0	195.4	350.3	274.2	245.2	407.0	436.3	246.7	387.3	2935.0
23	977	129.1	74.3	30.5	51.2	145.1	162.3	323.0	280.7	296.0	288.3	203.1	14.1	1997.0
23	978	10.2	5.1	17.1	326.1	348.4	388.7	433.3	317.7	262.7	312.9	495.0	254.5	3171.0
23	979	165.1	31.2	10.4	50.3	224.0	210.2	136.7	213.3	312.3	327.2	255.6	104.0	2039.0
23	980	15.9	51.5	29.8	44.7	258.7	264.0	305.4	172.5	343.1	558.4	785.1	140.8	2970.0
23	981	34.0	98.1	31.7	93.3	313.4	284.3	354.2	323.8	305.9	387.7	310.5	140.9	2677.0
23	982	73.7	12.4	22.6	82.4	315.8	428.2	404.9	288.1	282.4	310.2	382.2	211.9	2814.0
23	983	28.1	16.7	17.9	174.7	320.7	181.9	214.0	265.2	399.7	538.0	435.9	376.3	2970.0
23	984	126.6	16.0	12.9	8.9	196.2	219.8	315.6	415.2	420.3	257.7	351.2	276.3	2617.0
23	985	83.9	8.5	15.5	70.7	270.9	217.5	193.3	401.6	201.1	257.7	188.1	132.2	2040.0

23	986	27.1	21.0	48.9	192.8	328.1	304.4	334.1	348.5	256.7	295.5	395.9	148.2	2701.0
23	987	125.1	13.8	19.9	357.5	373.4	359.6	300.6	277.9	270.6	344.3	489.5	323.1	3256.0
23	988	52.7	42.5	13.4	145.4	386.1	327.8	306.5	317.0	239.2	442.4	418.9	256.8	2948.0
23	989	20.3	41.6	33.7	200.8	217.4	250.8	308.0	325.7	303.5	280.7	304.4	554.6	2843.0
23	990	39.8	12.9	35.1	90.5	192.1	219.1	201.7	237.9	315.4	324.2	296.2	133.4	2098.0
23	991	66.7	23.8	80.5	223.9	387.4	390.0	298.0	192.5	355.8	312.9	244.1	252.3	2828.0
23	992	80.6	20.4	18.1	184.7	301.5	311.3	405.8	349.5	313.1	453.5	434.4	192.9	3066.0
23	993	17.0	18.5	21.2	15.2	181.8	367.4	384.1	341.9	271.9	308.8	330.2	174.7	2433.0
23	994	51.2	22.8	28.5	69.7	345.6	234.9	155.0	311.9	277.5	455.3	229.7	386.8	2571.0
23	995	26.7	2.5	8.6	72.1	265.0	365.5	295.5	328.1	355.1	400.4	379.9	401.5	2902.0
23	996	53.3	20.5	54.4	89.5	363.7	196.5	262.8	237.8	225.8	331.5	282.6	204.4	2323.0
23	997	23.8	15.9	8.3	84.0	326.3	268.2	256.6	324.6	362.0	420.4	387.3	286.0	2763.0
23	998	52.4	15.4	8.3	53.8	179.9	323.5	306.4	413.4	381.6	304.6	512.7	298.6	2851.0
23	999	43.3	15.0	44.9	159.6	312.5	196.7	213.4	242.7	414.0	484.3	331.2	689.8	3147.0
23	1000	97.9	94.2	64.4	164.8	311.2	261.7	292.2	333.1	351.6	258.2	228.1	103.5	2560.0

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MAXIMUM VOLUMES FOR PERIOD 10 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	499.3	133.7	146.6	407.3	400.8	473.3	450.0	436.8	420.3	558.4	798.1	689.8	798.1	2744.0	13976.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
23	10.2	2.5	3.3	4.7	120.5	162.3	105.6	172.5	201.1	208.1	188.1	14.1	2.5	350.6	10039.
STA 23 MONTH 1	MEAN	82.97	VARIANCE	8356.93	STAN. DEV.	91.42									
STA 23 MONTH 2	MEAN	37.52	VARIANCE	797.13	STAN. DEV.	28.23									
STA 23 MONTH 3	MEAN	33.72	VARIANCE	679.08	STAN. DEV.	26.06									
STA 23 MONTH 4	MEAN	108.22	VARIANCE	7011.12	STAN. DEV.	83.73									
STA 23 MONTH 5	MEAN	283.37	VARIANCE	6057.33	STAN. DEV.	77.83									
STA 23 MONTH 6	MEAN	287.88	VARIANCE	5019.10	STAN. DEV.	70.85									
STA 23 MONTH 7	MEAN	274.92	VARIANCE	6699.39	STAN. DEV.	81.85									
STA 23 MONTH 8	MEAN	288.34	VARIANCE	4358.07	STAN. DEV.	66.02									
STA 23 MONTH 9	MEAN	300.86	VARIANCE	3501.86	STAN. DEV.	59.18									
STA 23 MONTH 10	MEAN	358.54	VARIANCE	6839.17	STAN. DEV.	82.70									
STA 23 MONTH 11	MEAN	362.60	VARIANCE	16121.26	STAN. DEV.	126.97									
STA 23 MONTH 12	MEAN	219.64	VARIANCE	20113.52	STAN. DEV.	141.82									

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**INPUT AND OUTPUT FILES
MADDEN LAKE
HEC-4 SYNTHETIC FLOWS**

A MONTHLY INFLOWS TO MADDEN LAKE
A FLOWS IN CUBIC METERS PER SECOND
A ESTIMATED BY MWH

B 1911 1 1 90 1000 100

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H 241941	34.0	54.0	41.4	26.4	62.7	106.1	81.0	103.0	90.6	188.1	157.7	98.5
H 241942	44.2	33.2	36.0	63.3	54.3	96.0	88.7	88.2	101.8	130.9	90.7	88.8
H 241943	65.8	45.1	32.7	39.4	85.1	101.2	74.8	93.3	89.2	103.4	95.8	193.5
H 241944	56.0	47.5	23.0	41.5	108.2	79.7	108.0	121.8	93.2	148.4	146.7	257.0
H 241945	64.0	36.3	23.2	23.1	69.1	77.2	89.7	108.6	89.9	82.7	78.1	151.8
H 241946	40.6	28.0	19.0	25.1	63.3	77.4	116.5	93.7	85.7	73.4	68.3	165.1
H 241947	44.6	30.0	18.0	23.4	40.5	74.9	102.7	98.1	75.9	78.7	82.0	97.7
H 241948	36.5	19.8	13.9	13.8	38.8	61.3	104.3	78.4	73.9	89.7	108.9	65.1
H 241949	32.1	19.9	14.2	18.3	62.7	109.9	131.4	117.5	97.0	112.5	139.2	130.6
H 241950	43.6	39.4	23.7	47.5	104.8	81.0	163.2	118.4	80.9	66.0	123.1	159.0
H 241951	45.6	105.0	54.1	49.3	73.5	78.4	76.6	71.5	76.1	70.6	73.4	78.4
H 241952	42.5	27.1	18.3	24.8	61.8	62.9	91.8	109.8	91.7	123.5	75.4	134.3
H 241953	99.9	65.9	29.3	29.5	96.2	67.8	82.6	76.4	68.9	79.2	105.5	83.6
H 241954	39.8	29.6	26.3	33.3	66.1	90.1	98.0	107.8	89.2	62.6	159.4	160.4
H 241955	148.1	38.4	27.9	22.4	42.7	45.8	82.8	131.9	74.2	61.7	189.2	101.7
H 241956	140.5	50.2	47.0	47.3	119.3	92.9	145.7	82.1	85.3	94.0	189.2	108.4
H 241957	37.2	24.7	18.0	15.2	36.7	37.4	33.7	42.0	47.8	77.9	136.0	89.8
H 241958	86.1	36.0	27.7	19.0	48.4	53.2	73.0	70.9	82.7	70.5	89.9	72.4
H 241959	31.5	19.9	15.3	23.9	48.1	59.3	55.2	60.9	104.4	86.5	163.9	227.7
H 241960	123.6	28.2	22.1	68.0	80.4	81.3	82.4	77.7	70.8	81.5	95.0	227.6
H 241961	50.5	23.3	18.3	28.0	48.6	102.0	80.3	82.0	72.3	93.8	99.8	71.1
H 241962	40.5	24.1	19.2	21.1	69.1	56.0	96.7	112.7	89.3	90.5	99.1	74.9
H 241963	89.7	40.2	26.1	55.1	108.6	102.2	112.8	115.2	111.1	79.9	102.1	53.5
H 241964	30.9	23.3	19.6	36.0	69.9	117.6	83.0	74.4	75.0	68.4	96.5	50.0
H 241965	41.6	28.9	24.0	21.2	58.7	96.2	70.6	68.4	95.4	114.9	131.4	125.0
H 241966	59.7	35.6	27.2	82.7	102.2	78.5	78.9	75.6	95.3	95.7	208.2	182.7
H 241967	70.5	40.4	29.7	73.9	108.8	116.0	121.3	82.8	84.8	70.9	103.0	97.3
H 241968	30.5	28.5	21.5	23.8	58.6	57.6	74.9	91.5	95.3	85.7	83.0	50.1
H 241969	30.0	29.4	24.0	43.6	70.7	49.4	61.3	85.0	78.9	67.0	87.1	213.0
H 241970	147.1	35.4	33.9	82.2	111.8	80.8	89.7	104.0	103.0	120.7	119.8	173.8
H 241971	87.0	40.7	30.6	21.0	55.4	110.6	132.4	95.2	77.5	77.8	92.0	48.9
H 241972	175.2	39.1	23.4	55.6	66.6	67.0	48.1	61.6	73.5	84.8	83.8	57.6
H 241973	29.0	19.0	11.1	10.2	48.3	68.8	81.4	84.1	68.6	80.6	157.1	107.9
H 241974	59.0	28.5	20.0	15.4	33.3	53.6	64.7	77.3	69.1	93.9	109.5	64.0
H 241975	25.9	16.0	11.9	10.8	64.4	88.7	123.5	146.7	87.7	110.3	132.6	151.7
H 241976	55.3	29.7	24.5	34.3	51.5	53.4	35.8	41.0	59.5	90.4	109.8	37.9
H 241977	34.5	23.1	17.0	17.7	35.6	41.4	56.6	81.1	73.1	138.3	106.7	90.0
H 241978	29.8	27.7	20.5	70.2	94.8	99.8	96.2	114.8	79.2	78.4	99.1	52.7
H 241979	26.1	19.3	14.5	52.0	47.3	67.3	67.0	83.0	67.0	71.8	102.0	121.7
H 241980	73.3	42.9	22.6	23.6	62.4	90.2	49.9	56.0	55.6	78.1	97.7	98.5
H 241981	58.9	40.5	34.3	247.8	115.2	88.3	112.9	91.8	61.7	81.1	105.6	160.5
H 241982	73.2	32.9	20.5	30.0	49.5	47.6	86.0	85.4	73.7	118.2	74.9	45.9
H 241983	34.8	19.2	14.2	21.8	91.5	65.9	61.2	62.7	75.5	95.4	101.8	219.2
H 241984	53.9	34.2	19.5	13.5	44.2	81.1	93.4	149.2	100.6	113.5	123.9	79.0
H 241985	38.1	26.6	26.4	20.0	55.0	91.8	67.0	56.6	98.5	81.3	77.6	128.1
H 241986	39.9	24.4	23.5	63.2	121.9	89.0	73.2	65.8	102.2	120.7	138.1	58.0
H 241987	26.5	25.9	16.1	83.8	162.1	96.3	91.2	109.0	125.5	98.6	148.0	68.2
H 241988	28.8	31.7	19.6	16.0	57.3	51.6	132.7	151.4	85.9	123.5	100.2	75.9
H 241989	43.3	44.0	25.0	17.3	50.4	84.8	102.6	106.3	74.7	132.0	152.1	82.7

H 241990	75.2	41.8	33.9	42.5	154.2	56.5	55.7	98.0	101.7	133.1	123.7	121.9
H 241991	40.0	26.1	31.3	25.4	97.3	58.0	55.7	63.5	108.6	77.4	157.7	74.7
H 241992	34.8	21.6	18.0	39.7	143.5	104.5	88.7	138.3	103.3	77.5	115.9	78.9
H 241993	59.6	28.9	39.8	77.1	85.4	112.4	84.4	63.9	98.4	143.2	108.9	82.3
H 241994	32.2	21.5	17.1	14.9	73.5	109.1	91.8	106.5	83.7	83.7	151.4	63.2
H 241995	35.8	19.0	12.0	19.4	54.3	97.5	118.2	89.0	71.5	71.8	104.0	138.4
H 241996	167.8	64.1	54.7	46.3	124.1	104.5	99.0	105.4	74.5	87.4	202.6	211.5
H 241997	53.7	39.4	20.9	17.7	78.7	74.4	44.5	41.0	49.6	60.3	51.0	38.3
H 241998	23.2	16.8	9.7	37.9	84.6	60.7	88.8	95.5	85.9	77.4	78.9	132.0
H 241999	72.2	54.2	40.1	57.1	78.7	96.2	120.9	130.5	96.0	93.4	122.2	317.2
H 242000	112.9	45.1	30.0	17.4	65.9	117.5	75.0	87.6	89.4	119.9	84.2	187.4

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MONTHLY INFLOWS TO MADDEN LAKE
FLOWS IN CUBIC METERS PER SECOND
ESTIMATED BY MWH

IYRA IMNTH IANAL MXRCS NYRG NYMXG NPASS IPCHQ IPCHS NSTA NCOMB NTNDM NCSTY IGNRL NPROJ IYRPJ MTHPJ LYRPJ
1911 1 1 90 1000 100 0

MAXIMUM VOLUMES OF RECORDED FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	175.2	105.0	54.7	247.8	162.1	117.6	163.2	151.4	125.5	188.1	208.2	317.2	317.2	880.2	4779.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	23.2	16.0	9.7	10.2	33.3	37.4	33.7	41.0	47.8	60.3	51.0	37.9	9.7	165.7	3217.

STA AVERAGE MONTHLY FLOW IS
24 75.08

FREQUENCY STATISTICS

STA	ITEM	1	2	3	4	5	6	7	8	9	10	11	12
24	MEAN	1.714	1.503	1.366	1.503	1.850	1.893	1.926	1.947	1.921	1.966	2.048	2.015
	STD DEV	0.222	0.158	0.161	0.267	0.164	0.124	0.139	0.129	0.082	0.107	0.124	0.220
	SKEW	0.786	0.592	0.132	0.654	0.224	-0.516	-0.560	-0.513	-0.608	0.642	0.135	0.115
	INCRMT	0.59	0.34	0.25	0.39	0.75	0.80	0.88	0.91	0.84	0.94	1.15	1.16
	YEARS	60	60	60	60	60	60	60	60	60	60	60	60

1

RAW CORRELATION COEFFICIENTS FOR MONTH 1

STA	24	WITH CURRENT MONTH
24	1.000	WITH PRECEDING MONTH AT ABOVE STATION
24	0.579	

RAW CORRELATION COEFFICIENTS FOR MONTH 2

STA	24	WITH CURRENT MONTH
24	1.000	WITH PRECEDING MONTH AT ABOVE STATION
24	0.683	

RAW CORRELATION COEFFICIENTS FOR MONTH 3

STA	24	WITH CURRENT MONTH
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24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.858

RAW CORRELATION COEFFICIENTS FOR MONTH 4

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.492

RAW CORRELATION COEFFICIENTS FOR MONTH 5

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.659

RAW CORRELATION COEFFICIENTS FOR MONTH 6

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.414

RAW CORRELATION COEFFICIENTS FOR MONTH 7

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.441

RAW CORRELATION COEFFICIENTS FOR MONTH 8

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.698

RAW CORRELATION COEFFICIENTS FOR MONTH 9

STA 24 WITH CURRENT MONTH

24 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 24 0.414

RAW CORRELATION COEFFICIENTS FOR MONTH 10

STA 24
 WITH CURRENT MONTH
 24 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 24 0.380

RAW CORRELATION COEFFICIENTS FOR MONTH 11

STA 24
 WITH CURRENT MONTH
 24 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 24 0.216

RAW CORRELATION COEFFICIENTS FOR MONTH 12

STA 24
 WITH CURRENT MONTH
 24 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 24 0.252

1
 RECORDED AND RECONSTITUTED FLOWS

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	1911	48.27E	31.01E	23.07E	29.63E	71.08E	79.92E	81.96E	86.42E	83.41E	87.17E	107.55E	108.24E	837
24	1912	49.17E	30.71E	22.91E	30.42E	68.67E	79.44E	85.72E	89.11E	84.30E	88.10E	109.07E	103.80E	841
24	1913	49.74E	30.45E	22.36E	30.53E	72.24E	81.11E	85.03E	90.09E	84.69E	89.14E	112.95E	103.07E	851
24	1914	47.73E	30.73E	23.28E	29.54E	70.03E	79.09E	84.92E	90.11E	85.16E	89.99E	109.51E	101.11E	842
24	1915	47.53E	29.84E	22.23E	30.50E	73.77E	80.42E	87.68E	91.14E	84.90E	89.13E	109.09E	102.12E	848
24	1916	45.35E	29.73E	22.40E	28.77E	68.77E	79.34E	82.19E	87.54E	81.75E	86.60E	109.00E	99.91E	822
24	1917	47.62E	30.50E	23.15E	29.72E	71.07E	82.10E	87.90E	91.98E	84.38E	89.17E	107.82E	100.02E	845
24	1918	47.27E	29.88E	22.64E	30.43E	69.10E	76.65E	83.67E	88.37E	83.53E	89.49E	111.64E	105.23E	838
24	1919	48.19E	29.37E	21.56E	27.88E	67.28E	77.43E	83.59E	90.34E	85.66E	92.42E	114.07E	100.79E	838
24	1920	48.82E	31.17E	23.89E	30.93E	67.67E	78.51E	84.42E	88.62E	82.87E	88.58E	111.44E	100.78E	839
24	1921	48.25E	30.71E	22.65E	29.05E	68.17E	77.72E	85.83E	90.27E	85.83E	89.26E	110.80E	105.66E	845
24	1922	48.91E	30.22E	22.55E	28.96E	67.10E	80.78E	86.62E	89.62E	84.45E	88.14E	110.02E	98.42E	836
24	1923	46.94E	30.43E	23.20E	31.14E	71.24E	78.90E	86.31E	88.48E	84.33E	88.24E	110.21E	108.13E	845
24	1924	49.55E	30.70E	23.30E	31.85E	69.28E	75.76E	82.44E	87.90E	83.58E	89.95E	113.71E	99.50E	838
24	1925	45.83E	29.16E	21.94E	29.63E	68.31E	80.18E	87.17E	91.06E	84.06E	87.56E	108.18E	101.78E	835
24	1926	48.56E	30.62E	22.74E	30.35E	69.67E	80.95E	86.94E	89.09E	84.93E	89.48E	109.32E	100.06E	843
24	1927	46.93E	29.76E	22.62E	29.23E	70.28E	80.12E	84.06E	87.25E	83.99E	90.53E	109.12E	99.13E	833
24	1928	49.17E	31.50E	23.65E	30.64E	72.32E	79.94E	86.52E	88.97E	83.16E	89.81E	111.58E	104.58E	853
24	1929	49.76E	30.69E	23.10E	28.47E	67.24E	81.39E	86.83E	90.36E	85.16E	89.79E	108.81E	96.56E	838
24	1930	46.93E	30.23E	22.40E	29.77E	70.14E	78.36E	83.76E	88.92E	85.55E	90.35E	108.75E	107.95E	843

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24	1931	49.35E	30.95E	23.10E	31.17E	71.64E	81.27E	85.11E	87.00E	83.24E	88.41E	108.35E	94.55E	833
24	1932	46.16E	29.88E	22.34E	29.66E	69.76E	79.93E	83.16E	89.41E	85.00E	89.65E	105.90E	102.85E	834
24	1933	48.02E	31.09E	22.96E	29.62E	68.56E	78.72E	82.23E	87.83E	83.65E	88.64E	113.09E	100.81E	837
24	1934	47.41E	30.49E	22.12E	28.78E	69.34E	79.94E	84.17E	90.55E	85.47E	91.28E	112.58E	104.08E	845
24	1935	48.22E	30.49E	23.13E	30.68E	70.76E	78.12E	86.11E	89.96E	85.81E	88.03E	104.30E	102.19E	837
24	1936	48.38E	31.28E	23.75E	28.79E	66.74E	75.74E	85.07E	89.19E	84.49E	90.08E	106.85E	97.72E	828
24	1937	46.65E	30.09E	22.46E	28.43E	68.43E	77.25E	83.73E	86.46E	83.88E	87.33E	108.72E	100.38E	822
24	1938	46.12E	29.45E	22.35E	29.30E	69.31E	77.28E	83.23E	88.25E	83.76E	89.31E	107.66E	101.61E	826
24	1939	46.60E	29.93E	22.28E	28.16E	68.51E	77.48E	86.16E	91.48E	83.91E	88.91E	108.46E	102.11E	833
24	1940	48.07E	30.95E	22.88E	29.41E	68.54E	77.61E	83.67E	86.82E	81.18E	85.98E	107.85E	99.58E	824
24	1941	34.00	54.00	41.40	26.40	62.70	106.10	81.00	103.00	90.60	188.10	157.70	98.50	1044
24	1942	44.20	33.20	36.00	63.30	54.30	96.00	88.70	88.20	101.80	130.90	90.70	88.80	916
24	1943	65.80	45.10	32.70	39.40	85.10	101.20	74.80	93.30	89.20	103.40	95.80	193.50	1019
24	1944	56.00	47.50	23.00	41.50	108.20	79.70	108.00	121.80	93.20	148.40	146.70	257.00	1231
24	1945	64.00	36.30	23.20	23.10	69.10	77.20	89.70	108.60	89.90	82.70	78.10	151.80	894
24	1946	40.60	28.00	19.00	25.10	63.30	77.40	116.50	93.70	85.70	73.40	68.30	165.10	855
24	1947	44.60	30.00	18.00	23.40	40.50	74.90	102.70	98.10	75.90	78.70	82.00	97.70	767
24	1948	36.50	19.80	13.90	13.80	38.80	61.30	104.30	78.40	73.90	89.70	108.90	65.10	704
24	1949	32.10	19.90	14.20	18.30	62.70	109.90	131.40	117.50	97.00	112.50	139.20	130.60	985
24	1950	43.60	39.40	23.70	47.50	104.80	81.00	163.20	118.40	80.90	66.00	123.10	159.00	1051
24	1951	45.60	105.00	54.10	49.30	73.50	78.40	76.60	71.50	76.10	70.60	73.40	78.40	853
24	1952	42.50	27.10	18.30	24.80	61.80	62.90	91.80	109.80	91.70	123.50	75.40	134.30	864
24	1953	99.90	65.90	29.30	29.50	96.20	67.80	82.60	76.40	68.90	79.20	105.50	83.60	886
24	1954	39.80	29.60	26.30	33.30	66.10	90.10	98.00	107.80	89.20	62.60	159.40	160.40	962
24	1955	148.10	38.40	27.90	22.40	42.70	45.80	82.80	131.90	74.20	61.70	189.20	101.70	967
24	1956	140.50	50.20	47.00	47.30	119.30	92.90	145.70	82.10	85.30	94.00	189.20	108.40	1201
24	1957	37.20	24.70	18.00	15.20	36.70	37.40	33.70	42.00	47.80	77.90	136.00	89.80	597
24	1958	86.10	36.00	27.70	19.00	48.40	53.20	73.00	70.90	82.70	70.50	89.90	72.40	729
24	1959	31.50	19.90	15.30	23.90	48.10	59.30	55.20	60.90	104.40	86.50	163.90	227.70	895
24	1960	123.60	28.20	22.10	68.00	80.40	81.30	82.40	77.70	70.80	81.50	95.00	227.60	1038
24	1961	50.50	23.30	18.30	28.00	48.60	102.00	80.30	82.00	72.30	93.80	99.80	71.10	769
24	1962	40.50	24.10	19.20	21.10	69.10	56.00	96.70	112.70	89.30	90.50	99.10	74.90	793
24	1963	89.70	40.20	26.10	55.10	108.60	102.20	112.80	115.20	111.10	79.90	102.10	53.50	996
24	1964	30.90	23.30	19.60	36.00	69.90	117.60	83.00	74.40	75.00	68.40	96.50	50.00	744
24	1965	41.60	28.90	24.00	21.20	58.70	96.20	70.60	68.40	95.40	114.90	131.40	125.00	876
24	1966	59.70	35.60	27.20	82.70	102.20	78.50	78.90	75.60	95.30	95.70	208.20	182.70	1123
24	1967	70.50	40.40	29.70	73.90	108.80	116.00	121.30	82.80	84.80	70.90	103.00	97.30	999
24	1968	30.50	28.50	21.50	23.80	58.60	57.60	74.90	91.50	95.30	85.70	83.00	50.10	703
24	1969	30.00	29.40	24.00	43.60	70.70	49.40	61.30	85.00	78.90	67.00	87.10	213.00	839
24	1970	147.10	35.40	33.90	82.20	111.80	80.80	89.70	104.00	103.00	120.70	119.80	173.80	1203
24	1971	87.00	40.70	30.60	21.00	55.40	110.60	132.40	95.20	77.50	77.80	92.00	48.90	870
24	1972	175.20	39.10	23.40	55.60	66.60	67.00	48.10	61.60	73.50	84.80	83.80	57.60	838
24	1973	29.00	19.00	11.10	10.20	48.30	68.80	81.40	84.10	68.60	80.60	157.10	107.90	766
24	1974	59.00	28.50	20.00	15.40	33.30	53.60	64.70	77.30	69.10	93.90	109.50	64.00	687
24	1975	25.90	16.00	11.90	10.80	64.40	88.70	123.50	146.70	87.70	110.30	132.60	151.70	972
24	1976	55.30	29.70	24.50	34.30	51.50	53.40	35.80	41.00	59.50	90.40	109.80	37.90	622
24	1977	34.50	23.10	17.00	17.70	35.60	41.40	56.60	81.10	73.10	138.30	106.70	90.00	715
24	1978	29.80	27.70	20.50	70.20	94.80	99.80	96.20	114.80	79.20	78.40	99.10	52.70	863
24	1979	26.10	19.30	14.50	52.00	47.30	67.30	67.00	83.00	67.00	71.80	102.00	121.70	738
24	1980	73.30	42.90	22.60	23.60	62.40	90.20	49.90	56.00	55.60	78.10	97.70	98.50	752
24	1981	58.90	40.50	34.30	247.80	115.20	88.30	112.90	91.80	61.70	81.10	105.60	160.50	1199
24	1982	73.20	32.90	20.50	30.00	49.50	47.60	86.00	85.40	73.70	118.20	74.90	45.90	737
24	1983	34.80	19.20	14.20	21.80	91.50	65.90	61.20	62.70	75.50	95.40	101.80	219.20	864
24	1984	53.90	34.20	19.50	13.50	44.20	81.10	93.40	149.20	100.60	113.50	123.90	79.00	904

24	1985	38.10	26.60	26.40	20.00	55.00	91.80	67.00	56.60	98.50	81.30	77.60	128.10	767
24	1986	39.90	24.40	23.50	63.20	121.90	89.00	73.20	65.80	102.20	120.70	138.10	58.00	919
24	1987	26.50	25.90	16.10	83.80	162.10	96.30	91.20	109.00	125.50	98.60	148.00	68.20	1050
24	1988	28.80	31.70	19.60	16.00	57.30	51.60	132.70	151.40	85.90	123.50	100.20	75.90	875
24	1989	43.30	44.00	25.00	17.30	50.40	84.80	102.60	106.30	74.70	132.00	152.10	82.70	915
24	1990	75.20	41.80	33.90	42.50	154.20	56.50	55.70	98.00	101.70	133.10	123.70	121.90	1040
24	1991	40.00	26.10	31.30	25.40	97.30	58.00	55.70	63.50	108.60	77.40	157.70	74.70	815
24	1992	34.80	21.60	18.00	39.70	143.50	104.50	88.70	138.30	103.30	77.50	115.90	78.90	967
24	1993	59.60	28.90	39.80	77.10	85.40	112.40	84.40	63.90	98.40	143.20	108.90	82.30	983
24	1994	32.20	21.50	17.10	14.90	73.50	109.10	91.80	106.50	83.70	83.70	151.40	63.20	849
24	1995	35.80	19.00	12.00	19.40	54.30	97.50	118.20	89.00	71.50	71.80	104.00	138.40	829
24	1996	167.80	64.10	54.70	46.30	124.10	104.50	99.00	105.40	74.50	87.40	202.60	211.50	1341
24	1997	53.70	39.40	20.90	17.70	78.70	74.40	44.50	41.00	49.60	60.30	51.00	38.30	569
24	1998	23.20	16.80	9.70	37.90	84.60	60.70	88.80	95.50	85.90	77.40	78.90	132.00	792
24	1999	72.20	54.20	40.10	57.10	78.70	96.20	120.90	130.50	96.00	93.40	122.20	317.20	1278
24	2000	112.90	45.10	30.00	17.40	65.90	117.50	75.00	87.60	89.40	119.90	84.20	187.40	1032

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ADJUSTED FREQUENCY STATISTICS

STA	ITEM	1	2	3	4	5	6	7	8	9	10	11	12
24	MEAN	1.704	1.498	1.365	1.495	1.849	1.896	1.928	1.950	1.924	1.962	2.047	2.014
	STD DEV	0.181	0.129	0.131	0.217	0.134	0.101	0.114	0.105	0.067	0.088	0.101	0.179
	SKEW	1.106	0.838	0.191	0.906	0.295	-0.710	-0.745	-0.702	-0.841	0.916	0.193	0.154
	INCRMT	0.59	0.34	0.25	0.39	0.75	0.80	0.88	0.91	0.84	0.94	1.15	1.16

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CONSISTENT CORRELATION MATRIX FOR MONTH 1

STA	24	WITH CURRENT MONTH
24	1.000	WITH PRECEDING MONTH AT ABOVE STATION
24	0.576	

CONSISTENT CORRELATION MATRIX FOR MONTH 2

STA	24	WITH CURRENT MONTH
24	1.000	WITH PRECEDING MONTH AT ABOVE STATION
24	0.683	

CONSISTENT CORRELATION MATRIX FOR MONTH 3

STA	24	WITH CURRENT MONTH
24	1.000	WITH PRECEDING MONTH AT ABOVE STATION
24	0.858	

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CONSISTENT CORRELATION MATRIX FOR MONTH 4

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.492

CONSISTENT CORRELATION MATRIX FOR MONTH 5

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.659

CONSISTENT CORRELATION MATRIX FOR MONTH 6

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.414

CONSISTENT CORRELATION MATRIX FOR MONTH 7

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.441

CONSISTENT CORRELATION MATRIX FOR MONTH 8

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.698

CONSISTENT CORRELATION MATRIX FOR MONTH 9

STA 24 WITH CURRENT MONTH
24 1.000 WITH PRECEDING MONTH AT ABOVE STATION
24 0.414

CONSISTENT CORRELATION MATRIX FOR MONTH 10

STA 24	WITH CURRENT MONTH
24 1.000	WITH PRECEDING MONTH AT ABOVE STATION
24 0.381	

CONSISTENT CORRELATION MATRIX FOR MONTH 11

STA 24	WITH CURRENT MONTH
24 1.000	WITH PRECEDING MONTH AT ABOVE STATION
24 0.217	

CONSISTENT CORRELATION MATRIX FOR MONTH 12

STA 24	WITH CURRENT MONTH
24 1.000	WITH PRECEDING MONTH AT ABOVE STATION
24 0.251	

1 MAXIMUM VOLUMES FOR PERIOD 1 OF 90 YEARS OF RECORDED AND RECONSTITUTED FLOWS

STA 1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24 175.2	105.0	54.7	247.8	162.1	117.6	163.2	151.4	125.5	188.1	208.2	317.2	317.2	880.2	4779.

MINIMUM VOLUMES

STA 1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24 23.2	16.0	9.7	10.2	33.3	37.4	33.7	41.0	47.8	60.3	51.0	37.9	9.7	165.7	3217.

STA 24 MONTH 1 MEAN	54.11	VARIANCE	920.21	STAN. DEV.	30.33
STA 24 MONTH 2 MEAN	32.20	VARIANCE	153.95	STAN. DEV.	12.41
STA 24 MONTH 3 MEAN	23.67	VARIANCE	69.32	STAN. DEV.	8.33
STA 24 MONTH 4 MEAN	35.73	VARIANCE	803.39	STAN. DEV.	28.34
STA 24 MONTH 5 MEAN	72.62	VARIANCE	668.33	STAN. DEV.	25.85
STA 24 MONTH 6 MEAN	78.58	VARIANCE	364.17	STAN. DEV.	19.08
STA 24 MONTH 7 MEAN	85.79	VARIANCE	558.06	STAN. DEV.	23.62
STA 24 MONTH 8 MEAN	89.63	VARIANCE	538.24	STAN. DEV.	23.20
STA 24 MONTH 9 MEAN	83.09	VARIANCE	234.25	STAN. DEV.	15.31
STA 24 MONTH 10 MEAN	91.26	VARIANCE	526.38	STAN. DEV.	22.94
STA 24 MONTH 11 MEAN	112.36	VARIANCE	925.95	STAN. DEV.	30.43
STA 24 MONTH 12 MEAN	109.36	VARIANCE	2605.89	STAN. DEV.	51.05

1 GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 1

STA 24 MONTH 1 MEAN	0.000	STD DEVO	0.062
STA 24 MONTH 2 MEAN	0.004	STD DEVO	0.059
STA 24 MONTH 3 MEAN	0.005	STD DEVO	0.054
STA 24 MONTH 4 MEAN	0.005	STD DEVO	0.056

STA	24	MONTH	5	MEAN-0.005	STD	DEVO.061
STA	24	MONTH	6	MEAN 0.001	STD	DEVO.069
STA	24	MONTH	7	MEAN 0.005	STD	DEVO.064
STA	24	MONTH	8	MEAN 0.006	STD	DEVO.067
STA	24	MONTH	9	MEAN-0.009	STD	DEVO.065
STA	24	MONTH	10	MEAN-0.009	STD	DEVO.065
STA	24	MONTH	11	MEAN 0.004	STD	DEVO.063
STA	24	MONTH	12	MEAN 0.004	STD	DEVO.065

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	1	72.6	41.1	29.5	23.1	29.5	29.0	65.7	62.8	78.4	74.7	149.2	124.4	779.0
24	2	32.1	25.5	23.4	16.7	34.8	46.8	64.9	76.6	85.8	82.5	117.5	149.9	757.0
24	3	102.3	46.6	34.0	216.2	152.8	85.0	66.9	56.9	64.8	88.6	109.7	150.9	1176.0
24	4	51.1	41.3	31.4	64.3	57.0	86.7	101.6	103.6	98.9	107.4	145.6	86.8	976.0
24	5	59.1	33.5	34.0	34.9	92.8	115.9	123.6	130.4	80.2	78.4	114.5	68.8	966.0
24	6	46.9	40.9	32.2	53.2	68.1	73.7	49.2	69.8	75.7	73.6	149.1	76.2	809.0
24	7	33.7	24.9	18.4	28.3	71.1	73.0	42.4	56.1	92.1	97.4	210.7	115.6	863.0
24	8	65.2	28.6	18.9	15.4	66.9	74.7	71.8	82.4	81.8	110.7	113.0	198.3	928.0
24	9	40.2	32.4	29.4	21.9	58.9	76.8	75.5	81.1	64.2	66.0	61.9	72.6	681.0
24	10	30.2	23.7	14.6	34.0	80.9	85.8	87.7	113.9	100.5	116.4	110.2	115.0	914.0
24	11	45.3	20.5	11.7	45.9	106.0	110.9	103.6	116.3	88.8	105.0	130.0	51.5	936.0
24	12	38.4	27.7	29.9	24.4	62.0	97.7	68.2	99.7	80.9	104.5	150.3	98.5	882.0
24	13	57.9	27.9	19.1	29.9	68.5	73.2	66.2	81.1	90.5	110.7	167.2	90.2	883.0
24	14	93.4	43.3	31.7	31.7	70.5	80.8	93.2	95.0	86.9	111.6	135.1	142.5	1017.0
24	15	43.8	26.4	22.4	38.5	92.2	94.3	59.4	54.9	66.3	105.9	122.4	96.0	821.0
24	16	53.9	29.0	20.6	21.9	90.1	96.1	96.6	85.1	98.4	122.0	156.8	109.9	981.0
24	17	36.3	23.6	18.2	22.7	64.8	87.5	76.6	62.2	75.7	78.7	74.3	59.2	681.0
24	18	71.0	24.9	16.7	19.4	62.3	68.3	79.8	68.6	78.4	73.2	111.0	99.7	773.0
24	19	38.0	24.1	14.9	29.4	105.6	79.3	77.7	80.0	67.9	75.4	95.8	149.4	837.0
24	20	51.3	41.5	32.2	33.0	67.0	60.9	29.4	53.1	54.2	68.5	123.8	203.1	818.0
24	21	314.1	79.0	36.5	136.0	90.3	87.2	88.7	79.6	94.9	74.6	84.5	68.4	1233.0
24	22	39.9	21.4	18.3	16.0	56.0	97.2	100.7	89.3	76.4	95.0	102.8	74.9	787.0
24	23	41.4	31.1	26.2	27.8	70.8	60.2	109.0	121.2	90.9	72.6	81.6	132.0	865.0
24	24	73.2	34.6	27.8	32.3	76.0	55.5	65.2	74.3	77.5	93.3	80.4	74.3	763.0
24	25	61.0	59.6	35.0	53.7	71.0	84.0	98.3	87.4	86.7	86.0	64.2	106.0	893.0
24	26	59.9	25.5	22.8	23.8	47.9	62.0	81.4	58.3	88.6	66.9	78.6	93.6	711.0
24	27	32.7	33.6	26.3	38.2	53.0	62.9	50.6	84.3	65.2	75.0	81.7	79.4	683.0
24	28	41.1	32.9	29.8	27.8	67.7	78.3	82.5	108.2	78.3	80.7	134.9	109.3	871.0
24	29	43.9	39.3	25.8	69.5	113.4	116.3	135.2	117.8	80.6	81.7	143.3	140.1	1106.0
24	30	56.1	47.6	33.9	16.8	50.2	93.8	68.0	72.4	78.7	80.7	125.8	72.4	797.0
24	31	26.8	18.4	14.8	24.1	65.8	95.8	107.2	96.0	83.0	96.0	101.0	273.3	1002.0
24	32	53.3	33.5	26.2	46.6	58.7	69.5	72.6	68.5	87.7	126.6	80.4	46.7	771.0
24	33	35.6	24.4	24.5	26.3	61.8	86.7	77.0	57.5	77.2	84.7	85.5	141.6	784.0
24	34	46.4	36.1	34.3	50.3	96.9	75.7	69.0	88.3	84.4	89.1	103.2	73.0	845.0
24	35	38.1	23.0	20.7	21.1	51.8	88.1	86.7	78.0	79.2	108.9	112.4	93.8	802.0
24	36	68.6	35.6	29.0	43.0	46.9	70.1	111.9	115.8	87.9	111.0	118.5	79.0	919.0
24	37	30.1	20.9	17.5	19.2	87.0	79.0	72.8	85.7	95.3	119.7	126.0	50.9	804.0
24	38	25.6	17.7	10.3	21.6	92.1	97.3	95.4	66.8	76.7	86.3	91.7	104.2	786.0
24	39	36.6	30.1	17.2	62.7	115.5	88.7	85.5	116.0	110.5	93.6	174.0	260.7	1191.0
24	40	135.5	88.8	34.8	32.2	66.1	57.8	56.9	49.0	63.1	73.6	96.4	90.7	845.0
24	41	49.4	36.2	32.0	99.0	97.9	85.7	129.8	129.2	91.0	79.6	84.0	108.3	1022.0
24	42	43.4	20.9	17.6	29.1	95.1	109.1	99.3	95.0	77.8	78.1	98.2	63.0	826.0
24	43	65.7	31.7	24.7	35.2	87.4	75.6	93.8	115.2	96.2	84.5	115.9	101.4	927.0
24	44	118.7	52.2	37.7	45.4	75.1	73.9	90.9	69.1	74.6	79.3	70.8	126.9	915.0

24	45	50.6	34.7	26.6	19.3	71.3	88.8	123.2	115.5	77.1	92.9	104.0	119.6	925.0
24	46	60.0	26.0	21.3	31.1	71.5	95.3	79.4	89.7	90.3	72.7	143.1	215.9	996.0
24	47	74.1	37.3	27.5	92.1	126.6	64.1	77.3	88.7	94.8	141.5	140.7	80.9	1046.0
24	48	33.6	24.9	23.1	30.7	74.3	78.7	116.5	111.8	97.4	80.6	133.6	104.0	911.0
24	49	39.4	29.7	20.5	35.7	68.3	71.7	78.4	105.7	109.3	139.2	163.4	141.4	1001.0
24	50	44.4	30.4	22.4	21.1	58.0	74.9	102.2	104.5	84.3	68.2	111.4	177.6	898.0
24	51	33.3	26.5	15.0	37.9	54.4	82.5	93.3	93.0	90.7	81.5	83.9	49.6	741.0
24	52	29.0	23.6	18.5	19.4	55.0	64.9	87.4	87.6	88.8	90.5	106.7	71.3	743.0
24	53	37.8	21.7	18.6	18.4	60.0	59.7	82.0	93.9	67.9	85.9	91.8	126.8	766.0
24	54	30.7	21.4	19.6	21.7	51.1	77.3	85.3	98.4	95.0	93.4	121.4	112.8	827.0
24	55	40.8	42.2	32.8	28.5	81.6	84.0	116.4	106.7	78.8	78.0	126.6	168.8	987.0
24	56	68.5	48.9	33.6	58.7	84.0	114.6	130.8	125.1	92.1	97.3	89.1	60.9	1005.0
24	57	31.9	27.9	21.8	22.5	70.7	94.9	110.4	107.9	98.3	83.9	83.1	54.3	807.0
24	58	37.6	25.3	19.7	20.4	56.9	98.2	73.0	50.3	44.2	71.7	85.1	115.6	698.0
24	59	77.6	36.3	16.7	22.4	51.6	67.4	73.8	86.4	90.6	82.8	150.0	133.5	889.0
24	60	67.7	35.6	26.5	27.5	63.4	92.5	113.9	110.8	93.1	103.0	86.6	53.3	875.0
24	61	31.7	29.0	17.8	23.9	49.5	54.0	65.2	100.5	98.4	74.2	80.6	116.8	742.0
24	62	57.7	30.1	21.5	36.4	108.7	98.2	77.4	85.4	73.8	74.8	106.1	101.6	872.0
24	63	30.2	19.4	14.5	23.1	70.6	86.1	77.2	85.7	86.3	85.4	83.0	83.1	744.0
24	64	47.7	32.3	31.7	20.6	46.1	90.6	75.8	70.2	64.2	75.9	97.2	169.0	822.0
24	65	93.9	60.0	36.3	46.4	55.4	78.5	116.9	118.6	80.6	99.3	117.2	117.9	1021.0
24	66	142.9	40.8	27.1	29.1	68.2	73.9	89.2	104.0	73.7	82.7	93.8	157.5	984.0
24	67	43.7	31.3	21.0	17.6	50.3	58.4	90.4	88.6	105.0	120.1	118.5	119.6	865.0
24	68	37.2	23.8	13.2	34.0	75.6	96.1	96.2	97.6	100.2	101.3	83.7	80.5	839.0
24	69	34.5	19.5	15.3	44.8	69.6	67.1	92.8	124.9	100.6	134.7	81.7	39.2	826.0
24	70	28.8	23.0	17.0	16.9	42.8	74.4	45.0	61.1	75.3	79.4	93.7	63.6	621.0
24	71	28.2	25.5	21.1	19.3	73.4	56.6	84.9	76.2	90.9	93.9	153.5	122.4	845.0
24	72	72.2	37.5	20.9	27.8	121.3	119.5	99.1	87.4	83.4	92.4	135.8	113.8	1011.0
24	73	56.5	26.4	21.9	57.0	64.9	50.5	65.3	51.9	84.2	115.8	87.8	149.6	832.0
24	74	106.8	52.8	31.7	32.5	86.2	71.5	104.6	110.6	74.7	77.9	123.3	135.7	1011.0
24	75	62.4	28.4	21.1	16.6	40.5	56.8	49.7	64.9	67.9	74.8	151.0	238.5	874.0
24	76	82.5	60.8	43.0	50.0	112.7	81.2	65.3	86.3	74.2	70.5	101.3	122.8	950.0
24	77	38.6	26.5	13.2	15.2	46.7	85.8	112.3	123.7	83.4	70.8	96.1	68.8	781.0
24	78	38.6	38.0	27.6	20.1	66.3	55.6	68.8	80.9	65.2	131.8	150.4	91.5	835.0
24	79	34.9	32.6	24.4	22.6	49.0	59.8	102.4	95.5	92.9	75.5	101.8	149.9	842.0
24	80	62.7	29.4	13.9	25.5	86.0	62.8	78.8	88.3	88.0	79.5	108.7	120.1	843.0
24	81	88.0	54.7	48.0	409.7	175.2	100.6	133.5	137.6	86.7	83.1	103.7	129.7	1552.0
24	82	83.2	40.1	31.2	116.2	158.7	90.9	125.3	110.2	79.2	92.8	114.0	120.8	1162.0
24	83	35.5	22.0	16.5	16.1	47.4	80.2	64.3	94.4	91.7	128.4	108.4	39.2	743.0
24	84	32.1	26.5	19.6	26.3	65.2	90.3	87.6	83.0	61.2	72.1	124.4	112.2	800.0
24	85	59.8	29.2	21.7	23.4	46.1	60.9	79.9	81.5	87.0	115.5	139.3	65.7	811.0
24	86	41.8	29.0	26.0	35.6	56.9	77.5	98.0	111.8	78.1	76.1	121.7	126.0	879.0
24	87	47.3	32.2	25.1	17.3	66.7	90.9	79.4	111.4	100.4	123.6	92.3	98.0	883.0
24	88	37.9	29.3	20.1	28.1	70.5	84.7	57.0	74.5	95.3	84.2	118.8	79.4	779.0
24	89	37.5	34.3	22.4	21.1	61.1	74.6	110.7	85.5	97.5	74.2	129.7	63.8	814.0
24	90	43.6	23.2	16.0	34.7	103.3	99.1	94.5	108.5	107.9	92.6	124.1	114.3	962.0
24	91	49.7	27.0	19.7	15.4	52.1	50.8	94.7	72.1	72.8	66.9	92.7	56.3	671.0
24	92	41.1	30.5	28.8	32.3	69.3	116.9	101.4	106.3	90.2	122.0	109.3	71.1	918.0
24	93	46.2	28.4	19.9	25.4	79.1	107.2	71.5	86.6	77.4	93.4	195.4	101.3	930.0
24	94	37.6	27.8	18.0	30.3	79.7	99.5	112.3	126.1	92.6	92.0	121.1	88.9	926.0
24	95	45.7	29.6	21.8	22.9	55.8	46.5	86.0	76.5	82.9	103.7	102.0	189.3	864.0
24	96	109.7	35.4	31.5	48.3	84.9	55.6	73.7	101.4	81.6	170.9	112.0	68.8	974.0
24	97	44.5	27.6	19.6	23.6	57.1	70.8	91.0	71.7	63.4	77.5	117.5	106.1	772.0
24	98	35.0	24.8	16.2	22.8	84.3	94.3	100.1	106.9	99.4	148.2	123.9	322.6	1178.0

24	99	130.6	31.6	29.6	41.8	97.0	90.1	92.7	107.2	93.6	117.8	107.7	77.9	1020.0
24	100	66.6	29.0	18.8	13.8	53.9	76.8	79.0	76.7	101.4	87.7	101.3	149.7	856.0

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MAXIMUM VOLUMES FOR PERIOD 1 OF 100 YEARS OF SYNTHETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	314.1	88.8	48.0	409.7	175.2	119.5	135.2	137.6	110.5	170.9	210.7	322.6	409.7	1043.2	4987.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	25.6	17.7	10.3	13.8	29.5	29.0	29.4	49.0	44.2	66.0	61.9	39.2	10.3	167.7	3327.
STA 24 MONTH 1 MEAN	55.35	VARIANCE	1312.09	STAN. DEV.	36.22										
STA 24 MONTH 2 MEAN	32.44	VARIANCE	149.84	STAN. DEV.	12.24										
STA 24 MONTH 3 MEAN	23.77	VARIANCE	58.69	STAN. DEV.	7.66										
STA 24 MONTH 4 MEAN	38.80	VARIANCE	2153.15	STAN. DEV.	46.40										
STA 24 MONTH 5 MEAN	72.89	VARIANCE	684.83	STAN. DEV.	26.17										
STA 24 MONTH 6 MEAN	79.15	VARIANCE	375.72	STAN. DEV.	19.38										
STA 24 MONTH 7 MEAN	85.82	VARIANCE	525.79	STAN. DEV.	22.93										
STA 24 MONTH 8 MEAN	89.84	VARIANCE	519.07	STAN. DEV.	22.78										
STA 24 MONTH 9 MEAN	83.08	VARIANCE	221.11	STAN. DEV.	14.87										
STA 24 MONTH 10 MEAN	91.78	VARIANCE	515.36	STAN. DEV.	22.70										
STA 24 MONTH 11 MEAN	112.27	VARIANCE	883.97	STAN. DEV.	29.73										
STA 24 MONTH 12 MEAN	110.02	VARIANCE	2642.35	STAN. DEV.	51.40										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 2

STA 24 MONTH 1 MEAN	0.008	STD DEVO	0.069
STA 24 MONTH 2 MEAN	0.012	STD DEVO	0.057
STA 24 MONTH 3 MEAN	0.009	STD DEVO	0.058
STA 24 MONTH 4 MEAN	-0.006	STD DEVO	0.062
STA 24 MONTH 5 MEAN	0.003	STD DEVO	0.067
STA 24 MONTH 6 MEAN	-0.005	STD DEVO	0.067
STA 24 MONTH 7 MEAN	-0.009	STD DEVO	0.065
STA 24 MONTH 8 MEAN	-0.010	STD DEVO	0.062
STA 24 MONTH 9 MEAN	-0.003	STD DEVO	0.065
STA 24 MONTH 10 MEAN	0.002	STD DEVO	0.071
STA 24 MONTH 11 MEAN	-0.002	STD DEVO	0.064
STA 24 MONTH 12 MEAN	0.009	STD DEVO	0.072

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	101	40.4	28.6	18.3	15.3	41.1	70.0	65.9	59.2	78.9	143.4	103.2	80.5	744.0
24	102	45.1	26.7	19.5	20.7	55.1	49.6	95.6	92.8	93.6	101.6	76.5	195.6	875.0
24	103	165.3	35.1	21.1	19.9	49.6	107.9	81.8	92.2	86.3	116.7	94.7	116.2	987.0
24	104	39.7	25.3	18.4	23.1	46.8	91.5	84.0	65.9	66.3	91.6	105.0	144.1	801.0
24	105	52.8	26.8	24.5	41.3	77.1	120.9	73.3	94.9	98.0	128.3	150.9	89.8	978.0
24	106	30.5	23.6	20.9	21.3	55.6	102.3	102.0	100.7	94.9	74.1	130.6	102.7	860.0
24	107	37.1	38.2	32.4	26.0	90.3	99.7	120.6	114.4	81.2	69.7	67.0	116.3	892.0
24	108	44.7	28.3	18.6	14.5	30.5	40.5	35.7	55.7	100.7	97.3	153.2	250.9	871.0
24	109	80.0	32.8	22.8	50.0	81.7	104.8	99.0	82.4	77.6	76.5	81.9	47.9	838.0
24	110	27.8	21.4	15.2	16.6	46.0	51.1	94.8	97.6	74.9	80.5	99.9	115.0	742.0
24	111	28.7	24.1	25.4	164.8	82.3	79.1	123.6	115.7	90.5	92.8	109.7	150.3	1087.0
24	112	64.5	36.0	28.8	32.4	64.1	88.5	69.4	82.7	82.2	90.0	171.6	213.4	1022.0
24	113	61.1	31.7	21.9	32.9	70.2	68.8	71.2	77.5	94.4	91.6	75.4	70.9	768.0
24	114	35.9	35.8	36.0	78.6	113.9	104.2	82.2	78.9	51.8	72.6	83.8	116.8	892.0
24	115	101.1	86.1	34.3	38.9	83.9	92.7	61.9	71.8	78.6	81.3	84.8	65.0	881.0

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24	116	67.2	23.4	14.4	12.4	42.8	58.4	71.5	97.2	96.4	93.8	117.0	136.9	830.0
24	117	72.2	30.4	20.4	32.1	61.5	97.0	74.1	83.0	106.3	113.9	143.4	120.2	953.0
24	118	45.9	26.1	19.9	44.9	87.0	83.4	101.1	87.1	94.4	126.0	130.9	122.4	968.0
24	119	57.1	25.6	23.7	45.4	82.5	64.5	95.1	101.8	99.2	76.3	94.8	115.3	881.0
24	120	57.5	33.5	20.9	23.1	95.6	75.3	66.3	89.4	83.5	72.5	83.6	67.3	767.0
24	121	32.0	24.3	17.5	20.7	53.2	82.1	83.3	115.0	100.5	127.3	159.8	121.0	936.0
24	122	31.3	27.2	18.9	17.5	62.6	85.7	80.1	82.9	96.4	87.9	118.6	202.3	912.0
24	123	88.7	44.1	38.0	77.0	86.1	63.8	73.8	82.2	57.0	71.2	135.8	180.5	999.0
24	124	79.6	34.1	23.2	28.2	64.2	80.0	82.3	93.1	81.0	99.2	92.9	54.5	811.0
24	125	40.3	24.9	23.2	19.6	80.0	66.3	31.7	43.8	73.6	78.7	137.5	114.9	735.0
24	126	59.1	43.0	33.5	51.1	106.2	86.3	82.7	107.5	85.7	107.6	81.4	91.3	934.0
24	127	34.5	19.8	14.0	17.5	56.2	60.2	66.1	59.3	80.9	91.7	103.1	91.6	696.0
24	128	52.1	40.9	33.4	53.7	92.6	85.6	75.0	65.6	75.3	71.3	118.4	118.0	882.0
24	129	102.4	69.0	35.8	82.8	100.3	83.3	73.9	99.2	94.1	90.2	79.8	71.4	981.0
24	130	33.0	34.9	32.6	42.3	137.8	98.2	127.1	131.9	100.1	93.4	101.9	108.9	1042.0
24	131	58.8	42.2	22.9	17.3	48.2	86.3	80.3	87.0	91.8	118.8	140.4	41.0	834.0
24	132	32.2	21.8	12.5	20.8	55.5	76.2	88.6	107.2	95.5	95.5	126.1	88.5	820.0
24	133	60.9	61.2	34.9	39.8	66.3	78.1	105.7	107.1	92.3	106.3	127.4	112.3	991.0
24	134	73.9	34.1	36.6	80.4	73.7	100.6	107.7	110.6	80.0	71.1	94.5	106.6	971.0
24	135	50.3	29.1	23.3	38.8	163.1	95.8	99.7	110.3	79.7	103.5	136.8	80.7	1011.0
24	136	29.7	23.8	20.1	35.7	88.4	89.7	74.2	84.2	42.9	80.7	92.5	153.3	816.0
24	137	42.3	28.4	18.6	57.1	55.0	61.1	62.9	66.0	93.3	114.6	135.4	117.6	852.0
24	138	34.2	24.6	12.7	33.1	91.9	75.5	81.0	96.2	73.0	86.4	119.7	120.8	849.0
24	139	56.1	40.9	23.7	36.2	82.7	71.6	62.4	69.8	102.6	119.5	101.2	262.6	1030.0
24	140	92.8	45.0	34.0	53.4	77.2	97.8	122.7	132.1	96.6	125.5	204.0	83.3	1165.0
24	141	60.6	48.2	40.3	17.0	51.9	41.3	84.3	96.5	76.5	112.9	105.0	303.2	1037.0
24	142	180.9	56.2	40.1	38.8	139.3	90.6	95.1	113.9	97.0	99.5	100.6	70.9	1124.0
24	143	38.6	20.4	15.0	19.9	69.5	71.7	91.6	105.7	75.9	100.5	99.1	67.6	778.0
24	144	76.6	40.1	29.4	72.9	90.1	61.6	43.5	63.2	88.4	91.5	108.6	65.1	831.0
24	145	32.3	20.6	12.6	21.4	57.6	70.0	110.5	105.7	96.3	104.8	110.3	118.7	861.0
24	146	30.9	25.9	23.5	33.1	76.7	101.2	96.7	84.8	79.5	77.2	97.6	54.1	781.0
24	147	37.4	27.7	21.9	22.5	61.1	78.9	97.0	76.4	84.7	82.3	152.9	190.6	934.0
24	148	91.1	43.3	27.2	49.3	116.7	76.1	93.5	112.8	73.1	64.3	70.0	89.9	906.0
24	149	35.5	26.8	17.0	35.4	85.1	103.2	94.7	119.9	91.2	108.2	164.0	164.5	1046.0
24	150	79.4	26.1	22.0	41.6	68.5	100.9	98.8	117.8	94.0	79.7	162.0	73.1	964.0
24	151	36.7	34.2	20.5	25.3	60.0	69.9	91.7	80.2	97.3	89.1	99.0	90.1	794.0
24	152	31.0	29.2	20.9	21.1	64.1	87.4	109.3	89.5	95.0	86.5	126.9	75.4	835.0
24	153	34.1	28.2	19.0	30.0	83.2	72.4	80.3	67.4	66.7	79.6	94.4	111.8	766.0
24	154	30.9	21.6	16.7	21.0	66.2	45.2	116.4	119.4	100.7	100.5	116.7	68.1	824.0
24	155	36.1	22.3	16.7	43.4	63.6	74.3	108.4	123.5	95.5	75.5	130.2	51.8	840.0
24	156	53.8	24.9	22.5	18.5	44.1	80.0	77.5	77.7	89.8	85.8	150.2	92.0	818.0
24	157	49.9	26.2	22.9	31.5	70.7	93.2	137.3	141.7	90.1	78.2	133.6	152.1	1027.0
24	158	75.3	39.4	23.1	15.8	47.7	79.9	76.1	73.5	82.5	67.0	79.0	124.3	783.0
24	159	63.3	29.8	14.7	22.1	59.8	72.5	96.3	90.6	87.1	71.4	100.6	90.6	799.0
24	160	38.7	24.5	20.1	19.6	43.1	49.0	46.4	39.5	54.9	87.5	117.5	145.1	687.0
24	161	52.9	43.0	30.7	61.8	77.3	89.3	78.4	90.8	90.5	74.6	115.6	169.9	976.0
24	162	49.1	21.6	15.8	13.5	50.9	82.0	114.6	108.3	81.4	76.6	106.5	54.7	777.0
24	163	38.7	30.3	25.3	19.4	81.9	97.8	86.8	66.5	74.6	89.9	81.9	67.5	761.0
24	164	26.6	17.7	10.1	18.6	50.2	88.2	90.5	123.2	86.5	89.9	77.9	63.8	744.0
24	165	38.4	23.6	16.0	20.4	59.2	112.9	131.1	107.5	89.4	80.6	98.4	207.5	985.0
24	166	221.9	68.6	48.0	100.8	101.2	89.4	100.8	102.4	90.4	103.5	72.4	129.0	1227.0
24	167	65.1	38.8	26.3	18.9	56.6	83.7	76.9	123.1	84.6	69.7	110.3	48.6	804.0
24	168	39.5	28.1	23.4	63.8	100.2	92.7	90.5	98.6	71.5	87.7	101.4	110.0	907.0
24	169	40.0	31.6	31.8	28.2	61.2	71.0	65.4	75.0	69.2	106.6	122.9	54.5	757.0

24 170 36.7 32.3 19.2 13.9 37.3 64.9 81.6 91.6 79.2 91.3 139.6 158.0 846.0
 24 171 68.8 37.2 41.9 73.7 78.2 67.9 54.7 53.4 82.2 87.2 140.7 90.7 877.0
 24 172 61.9 36.0 31.6 18.0 63.4 90.2 99.6 114.8 94.4 113.6 101.9 128.0 954.0
 24 173 53.7 49.3 32.5 62.0 150.3 111.8 128.1 99.1 79.1 90.7 89.5 112.2 1057.0
 24 174 77.6 42.8 34.1 26.3 59.7 51.6 79.5 79.1 69.8 107.5 93.0 70.3 791.0
 24 175 38.7 25.8 21.1 29.2 60.8 46.3 64.2 95.7 88.3 157.5 117.5 123.4 869.0
 24 176 40.7 23.3 14.3 34.1 67.1 73.0 87.7 88.4 96.3 93.2 167.3 64.0 848.0
 24 177 44.1 35.9 22.5 26.6 65.5 74.6 83.5 64.0 56.2 63.7 93.6 59.9 691.0
 24 178 37.2 21.2 18.9 29.9 70.8 82.2 120.2 128.1 99.7 93.1 122.2 89.2 912.0
 24 179 28.7 18.1 17.0 36.4 106.9 91.9 115.6 106.3 95.4 104.4 76.3 99.8 896.0
 24 180 48.5 51.3 30.1 33.1 97.1 67.9 110.7 97.9 96.0 119.2 109.8 119.7 981.0
 24 181 41.2 24.3 20.0 25.5 58.4 65.7 86.8 100.6 95.8 130.0 103.7 181.2 933.0
 24 182 72.7 37.7 26.5 31.6 70.2 88.7 94.4 95.8 96.5 107.5 136.5 78.9 938.0
 24 183 36.7 28.9 24.8 43.8 89.2 60.3 54.5 55.5 92.0 96.9 108.4 113.2 803.0
 24 184 43.8 26.1 18.7 53.0 98.7 92.0 80.2 106.9 98.0 122.5 116.5 68.8 926.0
 24 185 33.8 25.0 18.9 27.0 74.8 73.7 56.9 65.6 72.6 69.0 83.1 176.7 779.0
 24 186 39.0 23.3 16.7 26.3 56.8 78.4 65.2 72.8 66.6 85.0 109.4 75.6 715.0
 24 187 35.1 20.7 17.4 51.4 71.7 77.3 81.6 67.4 72.1 78.9 140.2 91.4 804.0
 24 188 62.5 37.2 26.4 28.1 51.6 35.5 67.9 52.0 61.9 91.4 164.6 265.2 944.0
 24 189 113.7 31.8 32.6 27.4 67.7 81.2 73.7 98.5 68.2 72.8 89.4 93.4 850.0
 24 190 32.0 28.3 17.9 27.7 92.8 93.4 83.1 75.6 88.0 85.0 94.6 94.4 813.0
 24 191 51.8 35.9 25.5 34.1 53.8 103.8 123.7 113.8 71.3 72.7 131.7 130.7 951.0
 24 192 50.0 33.1 24.8 34.2 49.4 68.8 80.3 80.3 87.7 73.6 95.3 141.5 818.0
 24 193 129.9 40.5 32.1 27.0 68.9 90.8 81.1 88.7 81.1 65.9 117.8 121.0 946.0
 24 194 36.6 30.9 22.1 18.1 47.9 78.1 50.3 78.8 52.7 68.8 106.2 62.6 654.0
 24 195 55.8 34.1 27.3 18.5 47.5 51.9 97.9 74.0 74.3 73.0 98.3 91.7 744.0
 24 196 55.3 41.8 27.7 33.3 69.8 81.1 116.6 95.8 81.3 103.4 116.0 86.9 909.0
 24 197 64.0 29.9 28.9 51.9 133.3 119.0 104.1 85.9 79.0 106.7 133.0 101.1 1037.0
 24 198 75.1 37.9 19.9 23.3 84.3 66.5 73.9 78.0 76.8 95.3 91.3 45.2 766.0
 24 199 27.2 25.1 20.5 28.1 86.2 97.6 88.6 85.8 88.6 84.1 202.0 77.1 911.0
 24 200 42.3 28.8 25.0 18.7 50.6 68.9 66.1 86.0 98.9 74.8 73.7 94.4 729.0

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MAXIMUM VOLUMES FOR PERIOD 2 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	221.9	86.1	48.0	164.8	163.1	120.9	137.3	141.7	106.3	157.5	204.0	303.2	303.2	875.0	4936.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	26.6	17.7	10.1	12.4	30.5	35.5	31.7	39.5	42.9	63.7	67.0	41.0	10.1	168.1	3408.
STA 24 MONTH 1 MEAN	55.17	VARIANCE	1020.96	STAN. DEV.											
STA 24 MONTH 2 MEAN	32.38	VARIANCE	138.89	STAN. DEV.											
STA 24 MONTH 3 MEAN	23.72	VARIANCE	61.03	STAN. DEV.											
STA 24 MONTH 4 MEAN	35.16	VARIANCE	498.03	STAN. DEV.											
STA 24 MONTH 5 MEAN	72.86	VARIANCE	650.75	STAN. DEV.											
STA 24 MONTH 6 MEAN	79.27	VARIANCE	376.29	STAN. DEV.											
STA 24 MONTH 7 MEAN	85.97	VARIANCE	521.52	STAN. DEV.											
STA 24 MONTH 8 MEAN	89.76	VARIANCE	515.31	STAN. DEV.											
STA 24 MONTH 9 MEAN	83.17	VARIANCE	233.68	STAN. DEV.											
STA 24 MONTH 10 MEAN	91.56	VARIANCE	430.12	STAN. DEV.											
STA 24 MONTH 11 MEAN	112.60	VARIANCE	891.74	STAN. DEV.											
STA 24 MONTH 12 MEAN	110.75	VARIANCE	2716.78	STAN. DEV.											

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 3

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STA	24	MONTH	1	MEAN	0.005	STD	DEVO	0.055							
STA	24	MONTH	2	MEAN	0.001	STD	DEVO	0.055							
STA	24	MONTH	3	MEAN	-0.002	STD	DEVO	0.060							
STA	24	MONTH	4	MEAN	-0.003	STD	DEVO	0.062							
STA	24	MONTH	5	MEAN	0.000	STD	DEVO	0.066							
STA	24	MONTH	6	MEAN	0.002	STD	DEVO	0.064							
STA	24	MONTH	7	MEAN	0.005	STD	DEVO	0.063							
STA	24	MONTH	8	MEAN	0.003	STD	DEVO	0.068							
STA	24	MONTH	9	MEAN	0.001	STD	DEVO	0.067							
STA	24	MONTH	10	MEAN	0.000	STD	DEVO	0.060							
STA	24	MONTH	11	MEAN	0.008	STD	DEVO	0.068							
STA	24	MONTH	12	MEAN	0.000	STD	DEVO	0.063							
STA	YEAR		1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	201		41.4	45.9	29.8	29.1	79.4	73.1	45.9	63.3	77.0	72.8	129.8	86.8	774.0
24	202		57.1	49.5	35.4	51.8	71.5	68.9	92.7	91.9	85.4	85.6	90.8	88.7	870.0
24	203		33.6	33.3	22.9	21.2	74.6	79.0	68.1	73.6	93.0	93.2	103.8	158.9	856.0
24	204		61.4	39.8	30.6	15.4	50.2	98.6	108.4	97.3	96.3	100.2	94.9	55.9	848.0
24	205		29.4	28.6	20.3	57.4	80.0	73.4	88.0	104.4	98.1	106.7	74.9	42.1	802.0
24	206		25.4	19.4	16.3	44.7	97.0	88.1	50.7	63.0	78.5	76.2	109.6	71.2	739.0
24	207		47.4	22.3	23.3	43.4	78.2	78.9	121.0	139.4	89.0	148.4	177.9	174.2	1141.0
24	208		190.3	30.6	22.0	23.2	47.1	56.1	42.6	49.4	65.9	76.9	100.8	113.2	818.0
24	209		65.9	47.4	41.7	41.0	76.8	116.8	121.2	105.2	78.4	73.2	112.9	89.7	970.0
24	210		27.8	27.0	22.8	50.1	123.9	90.5	86.4	77.9	74.5	79.9	83.4	183.9	929.0
24	211		57.3	35.5	27.7	43.1	69.5	89.3	118.2	115.1	83.2	94.1	107.8	244.2	1084.0
24	212		115.0	48.7	33.2	31.6	63.8	85.6	56.0	63.4	72.9	65.9	123.2	101.1	861.0
24	213		55.0	34.1	21.0	38.1	86.8	112.5	105.5	82.1	87.9	86.8	118.7	124.6	954.0
24	214		35.3	29.2	23.7	28.4	85.8	72.7	87.2	95.6	67.7	107.9	159.1	116.7	910.0
24	215		50.4	31.4	31.6	55.6	57.5	76.0	89.5	103.6	103.3	123.6	95.9	68.8	887.0
24	216		37.6	36.9	27.7	34.8	71.0	107.1	103.4	108.5	77.5	104.5	108.0	79.1	896.0
24	217		45.9	26.9	23.3	24.0	57.1	73.1	110.3	134.2	103.5	148.9	129.1	82.2	957.0
24	218		43.6	28.5	19.8	23.1	61.7	93.7	98.8	90.3	61.2	85.2	144.2	48.9	799.0
24	219		34.9	19.8	18.2	15.2	55.8	79.9	83.2	92.5	77.0	72.4	74.1	62.9	686.0
24	220		39.3	30.4	21.1	23.6	55.2	83.1	82.8	91.5	84.6	87.1	89.4	88.6	777.0
24	221		31.0	30.1	20.4	28.1	53.6	80.3	94.8	72.1	83.6	78.3	122.9	48.3	743.0
24	222		28.5	30.6	22.0	19.9	62.0	78.4	97.1	105.5	87.4	98.8	114.1	80.8	825.0
24	223		82.9	44.2	27.8	44.7	81.3	107.7	96.7	81.6	75.1	98.6	140.6	121.0	1004.0
24	224		85.7	38.8	31.6	32.3	121.9	114.0	112.4	102.3	90.0	77.6	83.1	71.5	961.0
24	225		50.0	33.1	23.1	35.0	93.1	100.8	100.0	109.1	80.2	72.6	78.0	100.0	875.0
24	226		42.0	30.6	21.4	24.2	90.5	67.1	37.2	29.8	62.7	70.9	115.3	161.1	753.0
24	227		58.6	20.0	15.1	16.2	48.3	66.7	84.4	95.4	78.9	117.9	123.0	132.1	856.0
24	228		54.6	32.7	23.5	24.9	80.5	101.7	101.2	101.4	92.2	76.5	77.7	74.6	843.0
24	229		56.3	25.5	20.0	17.1	42.4	62.2	109.1	117.1	72.2	70.7	117.4	121.1	829.0
24	230		44.3	27.6	23.7	57.2	101.6	73.4	83.4	74.5	71.2	84.0	107.3	50.7	798.0
24	231		26.3	23.3	19.1	29.1	75.3	72.2	83.5	89.3	81.3	72.7	97.9	113.8	782.0
24	232		55.9	51.4	27.0	19.8	78.0	69.7	62.0	56.0	70.6	78.3	141.8	159.9	871.0
24	233		120.1	39.8	29.5	18.1	58.5	103.0	110.3	88.4	91.7	97.5	117.5	261.5	1136.0
24	234		68.0	31.8	23.3	27.1	61.9	83.3	104.0	81.1	81.4	79.1	138.1	77.3	855.0
24	235		44.6	25.8	17.0	19.4	47.6	84.7	82.4	115.5	96.8	99.2	118.5	69.2	821.0
24	236		32.3	19.1	17.2	23.3	78.1	84.2	89.4	108.9	90.3	74.3	96.7	73.0	785.0
24	237		26.7	25.2	25.3	23.2	52.6	85.3	129.8	126.0	104.3	76.7	66.9	69.8	812.0
24	238		39.9	28.6	19.2	17.1	58.3	43.6	63.4	71.6	75.1	77.3	84.1	52.2	630.0
24	239		42.4	33.6	22.0	42.3	55.3	85.2	70.4	90.2	85.6	123.4	117.7	146.2	913.0
24	240		60.8	24.3	19.3	75.2	163.9	90.0	75.8	80.3	85.0	108.3	113.7	118.7	1015.0

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24	241	36.5	30.3	29.0	20.5	40.8	62.9	43.0	71.1	93.4	76.5	135.2	188.9	828.0
24	242	100.3	34.8	25.0	40.6	64.6	98.3	107.7	82.5	76.7	97.4	125.3	121.7	975.0
24	243	38.7	27.1	17.2	15.3	43.9	48.3	66.9	64.4	70.4	115.0	167.9	122.9	797.0
24	244	106.2	48.9	33.1	68.2	80.4	66.0	91.8	79.7	66.3	80.6	118.9	72.0	912.0
24	245	37.0	18.4	11.9	16.1	64.0	98.1	118.9	95.9	67.6	78.1	87.4	92.9	786.0
24	246	84.2	38.7	23.1	34.4	52.6	70.6	83.5	66.5	102.1	133.2	102.2	69.8	861.0
24	247	57.1	33.3	22.6	18.6	47.9	94.2	86.3	96.8	70.7	81.1	132.6	117.4	859.0
24	248	39.8	18.2	14.4	30.0	51.7	75.1	87.1	93.0	76.2	86.7	117.7	176.7	867.0
24	249	119.6	72.9	64.6	106.5	110.1	120.6	131.8	104.1	83.1	86.0	123.8	163.3	1288.0
24	250	66.5	39.3	38.2	97.4	93.7	114.9	97.2	81.2	87.0	93.1	118.7	63.9	991.0
24	251	29.3	24.2	16.2	18.6	64.0	60.0	100.5	104.2	101.5	94.5	66.0	88.7	768.0
24	252	51.9	31.4	24.3	27.6	80.6	80.6	74.9	56.7	66.7	94.4	112.1	126.3	828.0
24	253	42.1	28.3	20.8	16.1	45.9	73.6	75.9	86.8	95.9	116.6	85.2	106.4	794.0
24	254	50.0	41.0	30.4	21.4	62.2	89.1	110.1	87.7	74.8	95.7	120.3	93.0	875.0
24	255	48.9	32.6	19.6	35.4	89.2	75.9	118.4	122.4	101.2	82.7	108.4	78.0	912.0
24	256	46.4	26.8	21.6	27.6	72.2	54.6	76.8	101.1	79.6	93.9	93.9	83.1	779.0
24	257	64.9	29.4	20.4	25.6	63.3	101.4	69.1	95.9	66.5	96.7	82.6	112.9	829.0
24	258	34.4	24.0	22.0	49.6	100.0	87.1	107.6	129.3	87.0	100.7	114.7	103.1	960.0
24	259	38.0	26.4	16.4	22.4	45.3	90.7	59.5	62.8	55.0	73.6	77.9	111.1	678.0
24	260	57.9	48.8	32.0	32.8	138.1	90.1	100.0	98.2	99.2	93.9	90.2	117.7	999.0
24	261	46.9	27.8	21.5	36.9	113.5	66.2	86.6	80.1	87.6	169.8	105.6	74.6	919.0
24	262	41.5	24.1	20.5	31.2	92.3	100.0	123.2	109.9	88.7	99.9	100.6	104.2	936.0
24	263	47.2	29.6	21.3	21.5	41.1	82.9	68.6	78.7	90.8	85.3	152.7	173.1	893.0
24	264	47.7	39.5	30.9	36.2	49.9	73.4	108.6	94.3	109.1	101.9	89.5	114.4	895.0
24	265	45.2	27.9	21.1	21.7	57.0	84.1	58.7	52.8	71.7	90.5	109.2	65.3	706.0
24	266	35.0	22.6	17.8	38.7	90.2	91.8	103.0	112.9	104.7	108.7	206.2	157.4	1090.0
24	267	36.3	35.2	27.7	47.1	86.3	86.7	107.1	106.9	98.7	92.7	94.8	169.3	989.0
24	268	46.0	25.1	14.8	25.2	67.6	75.6	71.1	106.2	80.9	82.4	133.2	73.5	801.0
24	269	41.9	22.9	13.7	15.7	52.1	57.2	50.5	69.7	104.3	88.1	97.0	114.2	728.0
24	270	43.6	27.2	18.7	23.0	43.7	87.4	82.1	99.0	92.9	69.6	168.6	266.3	1023.0
24	271	46.8	23.2	15.4	17.8	91.2	66.6	82.6	89.7	99.4	81.3	121.4	78.5	814.0
24	272	36.8	24.9	18.4	16.4	68.4	69.7	50.0	53.9	85.1	83.9	136.0	104.6	748.0
24	273	36.9	34.2	27.6	35.0	139.1	61.3	90.8	110.1	103.1	131.3	102.0	53.3	924.0
24	274	36.0	32.6	21.5	25.2	95.5	87.9	86.5	101.4	69.7	97.4	108.6	73.5	836.0
24	275	76.8	49.7	27.5	80.0	115.2	108.9	98.8	86.7	64.2	63.4	120.7	93.6	987.0
24	276	43.1	23.8	13.7	11.8	32.2	31.7	60.3	107.2	89.7	123.0	189.4	125.4	851.0
24	277	41.2	25.5	23.2	30.3	93.4	83.5	64.0	70.3	71.5	69.5	70.4	56.5	699.0
24	278	36.2	24.6	16.3	18.8	43.4	85.7	88.0	77.7	79.3	80.4	118.6	40.9	710.0
24	279	35.6	43.0	46.8	28.5	61.8	107.1	96.2	96.6	88.6	88.5	140.0	129.1	964.0
24	280	56.0	37.3	25.8	27.2	75.4	61.1	78.9	85.0	86.8	140.3	170.2	102.2	945.0
24	281	41.7	25.3	20.4	26.9	55.4	63.8	72.2	98.5	86.6	68.3	90.0	84.4	732.0
24	282	82.1	71.7	47.9	94.2	120.4	75.1	70.1	48.1	68.7	70.4	119.9	229.2	1097.0
24	283	301.5	36.4	25.8	41.5	85.8	55.8	69.0	77.7	78.7	71.9	84.6	210.1	1141.0
24	284	35.9	20.6	11.1	18.6	48.6	65.5	97.7	111.3	90.4	94.7	132.1	152.5	879.0
24	285	44.0	24.9	20.3	21.6	78.2	62.0	75.3	118.2	97.1	118.2	121.2	94.7	875.0
24	286	37.6	26.6	24.3	38.3	71.8	89.3	71.0	94.9	100.7	109.0	123.4	124.3	911.0
24	287	35.9	34.1	28.6	39.1	56.6	86.9	93.8	111.8	73.6	76.4	118.6	129.1	886.0
24	288	55.0	25.5	18.1	67.2	73.5	63.8	91.8	92.7	69.8	70.6	86.1	68.6	784.0
24	289	40.5	25.8	18.4	21.4	66.2	72.7	113.5	121.9	104.2	143.7	122.3	49.6	900.0
24	290	41.8	25.1	16.1	31.1	77.0	72.1	75.2	101.7	83.9	93.0	166.9	153.5	937.0
24	291	67.0	50.8	38.4	39.0	55.3	68.3	78.1	56.8	67.1	101.0	153.1	145.2	919.0
24	292	47.4	26.7	20.0	25.1	64.5	72.1	86.3	85.1	92.8	78.9	76.6	117.7	793.0
24	293	43.7	40.0	23.2	69.6	69.1	34.8	50.8	69.0	75.3	104.0	116.4	132.3	828.0
24	294	84.5	46.7	33.5	76.1	86.5	76.8	106.7	99.5	98.3	73.6	105.7	69.6	959.0

24	295	27.9	21.5	14.9	23.8	50.6	61.0	52.5	73.4	85.6	82.8	103.3	128.7	727.0
24	296	87.5	51.0	35.9	55.3	81.7	69.2	56.7	67.8	63.9	87.6	118.2	228.0	1004.0
24	297	189.3	41.7	35.0	48.2	73.8	66.8	98.8	108.1	88.2	71.0	90.4	71.7	983.0
24	298	79.3	59.1	36.5	224.6	126.1	116.6	120.4	120.4	90.9	84.5	115.7	137.0	1311.0
24	299	84.5	26.5	15.9	19.4	69.2	69.3	78.8	96.2	99.7	117.7	64.2	89.7	831.0
24	300	37.8	19.9	15.2	20.3	58.5	76.7	101.1	109.2	91.3	102.0	101.0	157.9	891.0

1

MAXIMUM VOLUMES FOR PERIOD 3 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	301.5	72.9	64.6	224.6	163.9	120.6	131.8	139.4	109.1	169.8	206.2	266.3	301.5	919.1	4654.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	25.4	18.2	11.1	11.8	32.2	31.7	37.2	29.8	55.0	63.4	64.2	40.9	11.1	156.4	3246.
STA 24 MONTH 1 MEAN	55.99	VARIANCE	1441.12	STAN. DEV.	37.96										
STA 24 MONTH 2 MEAN	32.37	VARIANCE	121.69	STAN. DEV.	11.03										
STA 24 MONTH 3 MEAN	23.91	VARIANCE	73.92	STAN. DEV.	8.60										
STA 24 MONTH 4 MEAN	35.83	VARIANCE	729.14	STAN. DEV.	27.00										
STA 24 MONTH 5 MEAN	72.78	VARIANCE	643.39	STAN. DEV.	25.37										
STA 24 MONTH 6 MEAN	79.13	VARIANCE	373.31	STAN. DEV.	19.32										
STA 24 MONTH 7 MEAN	85.69	VARIANCE	531.48	STAN. DEV.	23.05										
STA 24 MONTH 8 MEAN	89.61	VARIANCE	507.70	STAN. DEV.	22.53										
STA 24 MONTH 9 MEAN	83.14	VARIANCE	222.10	STAN. DEV.	14.90										
STA 24 MONTH 10 MEAN	91.58	VARIANCE	507.80	STAN. DEV.	22.53										
STA 24 MONTH 11 MEAN	112.24	VARIANCE	871.65	STAN. DEV.	29.52										
STA 24 MONTH 12 MEAN	109.80	VARIANCE	2456.82	STAN. DEV.	49.57										

1

GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 4

STA 24 MONTH 1	MEAN 0.011	STD DEVO 0.055
STA 24 MONTH 2	MEAN 0.008	STD DEVO 0.054
STA 24 MONTH 3	MEAN 0.002	STD DEVO 0.052
STA 24 MONTH 4	MEAN 0.011	STD DEVO 0.060
STA 24 MONTH 5	MEAN 0.005	STD DEVO 0.064
STA 24 MONTH 6	MEAN 0.004	STD DEVO 0.065
STA 24 MONTH 7	MEAN -0.005	STD DEVO 0.066
STA 24 MONTH 8	MEAN -0.011	STD DEVO 0.063
STA 24 MONTH 9	MEAN -0.005	STD DEVO 0.070
STA 24 MONTH 10	MEAN 0.001	STD DEVO 0.064
STA 24 MONTH 11	MEAN -0.001	STD DEVO 0.071
STA 24 MONTH 12	MEAN 0.005	STD DEVO 0.063

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	301	178.6	43.7	30.7	25.4	63.4	92.8	97.3	106.0	96.3	103.1	120.3	166.0	1123.0
24	302	53.2	61.0	48.9	27.8	89.6	92.0	99.5	89.4	68.8	75.8	116.0	109.8	932.0
24	303	43.5	30.6	25.8	233.1	117.3	93.2	106.7	94.3	96.7	111.7	98.9	51.3	1103.0
24	304	36.4	30.0	25.7	44.7	84.1	67.4	83.6	43.9	81.8	77.0	145.7	73.6	795.0
24	305	39.0	22.4	22.5	14.3	40.3	52.5	63.6	96.6	97.3	108.7	123.2	58.4	739.0
24	306	34.5	17.5	14.0	31.4	59.5	71.5	94.3	81.5	86.4	94.5	125.1	118.0	827.0
24	307	71.9	26.7	21.8	33.4	59.6	57.5	71.3	116.3	99.2	85.0	203.3	137.4	983.0
24	308	59.7	37.7	30.8	28.5	85.1	105.2	120.2	120.5	103.5	187.1	99.8	155.3	1134.0
24	309	114.4	66.2	24.8	27.8	42.6	82.0	97.3	87.9	99.9	88.8	222.5	218.8	1174.0
24	310	74.2	43.2	28.9	162.6	104.1	89.4	112.8	121.7	94.8	84.5	92.7	92.3	1102.0
24	311	29.1	22.5	15.9	31.3	61.9	83.1	102.8	88.1	95.2	83.6	90.2	227.3	930.0

24	312	87.5	40.7	38.1	37.6	52.5	42.4	72.7	97.1	88.2	87.2	87.4	68.9	800.0
24	313	30.2	19.2	13.9	19.1	52.4	95.7	92.9	109.5	95.0	90.1	124.9	47.4	790.0
24	314	37.7	33.7	26.3	35.2	98.3	84.3	73.8	78.8	74.9	77.9	78.2	100.0	799.0
24	315	51.6	32.8	22.0	26.8	67.5	86.6	64.8	81.7	79.0	113.7	161.2	154.4	944.0
24	316	62.2	28.7	25.2	65.1	69.9	85.7	110.9	88.3	56.3	64.6	105.8	71.0	834.0
24	317	41.7	22.2	19.5	33.1	95.6	81.0	116.3	113.8	98.8	138.0	150.1	147.0	1057.0
24	318	32.9	27.5	24.3	22.9	84.7	83.0	111.3	114.9	80.6	124.0	91.6	82.6	881.0
24	319	68.2	25.7	18.9	21.5	54.5	80.9	70.8	103.8	84.6	80.2	105.7	54.0	771.0
24	320	49.1	27.7	18.5	27.9	76.6	96.0	74.6	99.8	82.7	96.8	94.1	71.1	816.0
24	321	48.1	25.3	20.5	37.7	62.7	73.6	61.4	60.1	77.2	76.5	119.8	48.5	713.0
24	322	29.7	23.6	16.7	27.9	41.7	106.1	110.3	123.9	94.4	94.8	89.9	83.6	844.0
24	323	33.4	24.5	23.8	19.7	54.4	93.0	115.3	118.1	76.1	98.6	75.6	173.9	906.0
24	324	41.3	36.0	21.0	17.3	63.0	67.9	73.1	94.6	83.1	114.0	105.1	116.3	832.0
24	325	38.5	32.4	25.1	29.7	82.9	119.3	127.0	112.7	80.1	102.6	142.4	144.6	1037.0
24	326	59.7	25.0	13.7	18.0	62.3	66.5	68.6	82.6	58.3	67.5	127.1	133.5	784.0
24	327	42.5	18.2	12.2	18.4	52.4	82.6	80.1	91.6	67.1	78.2	104.9	81.4	728.0
24	328	35.9	28.2	18.3	15.2	38.7	43.0	40.2	41.8	83.2	90.7	138.9	100.7	675.0
24	329	72.8	37.2	33.0	27.6	73.3	68.0	88.2	102.2	73.1	87.8	152.1	85.0	900.0
24	330	27.3	20.8	11.0	21.2	68.3	100.3	94.9	88.8	75.8	83.3	78.5	105.4	775.0
24	331	60.5	39.3	22.3	65.9	111.9	80.5	58.5	67.4	85.3	71.5	90.0	40.3	792.0
24	332	25.3	17.6	11.9	15.9	63.9	75.4	120.8	109.6	90.5	71.1	88.0	97.3	788.0
24	333	37.1	22.7	16.0	22.5	110.7	110.8	83.7	92.0	78.0	78.7	173.3	302.0	1128.0
24	334	116.7	59.5	47.2	47.1	81.3	89.2	94.0	102.4	95.0	68.6	134.1	137.3	1071.0
24	335	63.8	30.9	17.9	23.8	70.9	68.5	127.7	112.7	70.4	85.5	73.3	115.9	862.0
24	336	54.4	36.7	36.2	50.4	87.8	80.7	93.9	78.6	87.1	83.0	119.3	78.7	887.0
24	337	50.6	50.5	30.2	27.3	60.8	60.8	76.7	71.3	96.4	99.9	78.9	96.8	801.0
24	338	69.9	25.3	13.3	14.2	48.1	71.3	88.2	86.4	88.9	109.5	146.1	129.5	888.0
24	339	54.5	70.7	50.0	33.3	57.6	51.7	54.8	78.6	83.3	106.6	104.4	151.9	899.0
24	340	63.7	46.5	22.4	37.7	90.3	90.3	110.6	116.0	100.1	86.8	132.0	110.0	1006.0
24	341	98.6	39.5	34.1	147.0	146.7	113.6	78.2	76.9	86.5	75.5	121.1	175.1	1194.0
24	342	77.8	46.2	26.9	25.5	45.7	74.5	76.6	70.6	96.5	79.7	92.6	93.4	808.0
24	343	41.7	30.6	23.8	22.7	40.4	60.7	102.7	107.7	109.2	103.0	129.6	77.1	851.0
24	344	31.5	19.3	16.4	19.8	52.7	75.2	81.0	106.6	88.5	131.0	85.0	118.3	825.0
24	345	76.8	28.9	21.1	26.0	61.2	74.7	55.4	46.0	49.6	72.3	81.8	93.3	687.0
24	346	31.6	30.5	24.8	30.8	71.1	105.9	117.6	124.7	91.0	97.8	104.8	44.9	878.0
24	347	25.2	28.9	26.5	72.8	94.7	103.9	93.5	108.3	94.9	70.3	114.7	109.5	943.0
24	348	123.5	36.2	25.8	60.8	64.4	101.8	86.5	107.0	99.7	91.2	126.0	79.3	1003.0
24	349	33.4	27.0	20.1	21.1	51.6	77.2	97.6	113.6	103.7	88.9	163.0	130.1	928.0
24	350	53.4	29.8	22.3	27.0	74.5	82.2	87.8	109.3	96.0	109.8	97.3	80.1	868.0
24	351	49.0	36.4	30.8	44.7	54.5	53.4	58.5	94.6	89.6	86.8	120.8	88.6	809.0
24	352	36.9	24.1	24.1	39.8	80.7	70.5	107.3	121.5	102.5	98.2	91.1	74.1	871.0
24	353	40.5	26.9	21.0	33.4	63.5	53.4	68.8	72.7	63.6	69.8	157.2	61.0	732.0
24	354	29.8	21.4	16.5	17.9	57.0	55.8	71.5	65.2	83.6	86.6	95.0	75.3	676.0
24	355	29.6	26.6	27.4	23.7	59.3	71.1	59.1	64.6	75.8	103.5	104.4	152.7	799.0
24	356	67.0	33.4	23.4	17.7	32.9	63.6	48.2	50.4	86.1	126.4	197.3	160.2	905.0
24	357	37.0	41.3	25.6	30.9	71.2	67.1	101.0	79.6	73.3	74.3	108.1	56.9	766.0
24	358	45.8	23.0	18.1	47.0	89.1	74.5	69.4	90.0	82.1	77.4	108.7	121.4	845.0
24	359	64.1	32.4	25.1	17.6	84.6	103.2	94.7	74.0	70.6	97.3	129.1	98.1	891.0
24	360	49.7	30.6	24.0	15.4	48.2	68.5	74.2	91.6	70.2	76.0	137.2	245.1	930.0
24	361	61.4	39.6	24.8	31.8	82.8	72.4	85.6	88.1	57.6	85.8	122.9	64.5	818.0
24	362	47.5	27.5	16.6	17.8	60.4	44.7	86.5	57.7	66.2	81.7	84.5	164.4	757.0
24	363	68.3	39.9	21.4	19.7	44.5	89.2	62.5	67.7	68.4	77.0	105.7	132.9	798.0
24	364	84.5	34.4	25.5	28.1	67.8	102.3	78.9	81.3	93.7	93.3	103.5	162.7	954.0
24	365	47.3	44.5	36.6	132.9	175.5	92.8	73.1	77.3	95.0	106.1	112.6	177.6	1173.0

24 366 65.7 22.5 15.8 40.0 58.5 69.2 77.3 80.0 90.7 77.5 71.5 53.2 723.0
 24 367 48.3 33.4 25.5 52.6 101.9 80.1 79.8 95.1 82.3 158.9 93.7 100.5 952.0
 24 368 47.7 36.7 20.8 21.4 57.1 60.8 89.5 117.4 73.4 66.9 109.5 90.3 791.0
 24 369 86.9 36.5 25.3 39.0 67.6 49.2 70.9 80.9 72.2 100.8 99.6 132.6 863.0
 24 370 98.8 48.5 37.3 27.0 57.9 86.4 88.6 94.6 84.0 77.4 103.1 71.0 874.0
 24 371 54.8 28.3 18.9 37.2 73.9 67.7 75.0 102.5 87.5 86.1 138.1 110.5 882.0
 24 372 56.2 36.9 17.7 22.5 93.9 97.2 88.5 108.9 90.9 81.0 81.9 67.6 843.0
 24 373 50.2 27.3 28.5 26.6 59.0 81.0 106.3 121.6 95.4 70.5 72.1 51.4 789.0
 24 374 29.5 26.3 27.3 45.3 82.3 51.5 67.3 80.3 75.3 87.2 91.0 120.5 781.0
 24 375 31.1 36.8 32.6 33.0 69.5 109.1 139.8 121.1 107.0 180.9 144.4 232.1 1238.0
 24 376 37.1 24.4 17.3 14.8 42.3 42.2 51.0 58.0 74.9 81.3 115.3 135.0 692.0
 24 377 81.7 66.0 39.6 38.0 138.9 106.7 93.0 83.4 72.8 89.0 101.9 48.6 961.0
 24 378 40.7 31.2 29.9 82.6 94.1 83.1 73.6 74.3 78.9 72.4 149.7 98.2 909.0
 24 379 46.5 32.3 27.4 23.7 73.4 103.9 107.5 96.9 90.3 90.4 172.7 148.8 1013.0
 24 380 62.6 35.7 24.9 23.2 71.1 53.9 64.4 71.0 60.3 92.4 106.9 119.3 785.0
 24 381 51.4 24.1 21.3 33.0 114.6 92.3 68.3 87.1 82.2 94.7 120.6 66.1 855.0
 24 382 40.7 29.9 22.7 43.6 67.9 84.1 97.1 76.1 96.3 141.3 116.8 103.8 921.0
 24 383 44.4 46.9 38.8 18.4 57.7 80.5 103.9 128.7 99.6 84.3 91.5 93.6 889.0
 24 384 70.2 37.8 28.8 29.1 106.2 91.8 104.8 89.5 94.9 92.1 97.4 112.0 955.0
 24 385 39.6 32.0 22.4 21.7 60.5 99.7 136.5 140.9 106.4 118.0 99.7 104.2 983.0
 24 386 42.8 24.8 18.1 22.6 80.1 88.1 82.4 60.3 84.0 117.5 75.0 96.5 791.0
 24 387 28.7 28.9 16.8 27.5 74.2 79.8 94.1 86.8 73.1 67.6 87.0 103.2 769.0
 24 388 51.6 27.2 19.7 19.4 66.4 75.4 90.8 95.1 85.5 76.9 103.3 61.9 772.0
 24 389 47.3 25.3 20.1 16.9 59.8 83.8 59.7 78.2 75.0 95.5 74.4 66.3 701.0
 24 390 59.4 30.4 19.8 27.7 70.1 90.3 105.3 104.6 92.6 96.0 98.0 190.3 984.0
 24 391 81.9 33.2 28.4 31.9 105.9 85.9 71.6 72.3 89.8 116.1 118.7 161.4 997.0
 24 392 57.2 40.6 28.2 120.2 159.9 103.5 95.2 102.2 77.6 72.2 92.5 128.3 1077.0
 24 393 55.6 29.0 24.3 45.9 102.5 91.2 108.1 95.4 74.3 69.6 109.9 91.5 897.0
 24 394 45.4 26.0 19.0 50.3 64.4 42.6 28.8 44.8 65.1 87.5 135.9 104.3 713.0
 24 395 25.4 19.9 12.3 16.6 51.4 77.5 95.5 89.4 98.7 105.9 126.0 107.2 825.0
 24 396 45.5 27.5 19.8 38.4 103.0 91.9 97.2 107.2 76.7 69.5 94.8 142.1 913.0
 24 397 36.7 26.4 16.3 15.1 48.0 97.7 114.6 86.8 72.6 93.0 118.7 88.9 816.0
 24 398 37.4 30.5 30.2 45.5 65.8 80.0 69.9 68.8 81.9 87.2 77.1 52.6 726.0
 24 399 37.4 28.2 23.4 32.7 64.0 79.8 89.6 90.5 72.8 79.7 115.8 116.3 830.0
 24 400 94.6 29.0 17.7 42.3 66.6 64.1 54.6 63.6 76.2 110.8 135.3 180.1 936.0

1

MAXIMUM VOLUMES FOR PERIOD 4 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	178.6	70.7	50.0	233.1	175.5	119.3	139.8	140.9	109.2	187.1	222.5	302.0	302.0	925.2	5068.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	25.2	17.5	11.0	14.2	32.9	42.2	28.8	41.8	49.6	64.6	71.5	40.3	11.0	175.0	3314.
STA 24 MONTH 1 MEAN	53.10	VARIANCE	603.53	STAN. DEV.	24.57										
STA 24 MONTH 2 MEAN	32.21	VARIANCE	118.74	STAN. DEV.	10.90										
STA 24 MONTH 3 MEAN	23.81	VARIANCE	63.73	STAN. DEV.	7.98										
STA 24 MONTH 4 MEAN	36.75	VARIANCE	1053.07	STAN. DEV.	32.45										
STA 24 MONTH 5 MEAN	72.81	VARIANCE	697.78	STAN. DEV.	26.42										
STA 24 MONTH 6 MEAN	79.32	VARIANCE	378.35	STAN. DEV.	19.45										
STA 24 MONTH 7 MEAN	86.08	VARIANCE	516.40	STAN. DEV.	22.72										
STA 24 MONTH 8 MEAN	90.03	VARIANCE	508.68	STAN. DEV.	22.55										
STA 24 MONTH 9 MEAN	83.32	VARIANCE	225.73	STAN. DEV.	15.02										
STA 24 MONTH 10 MEAN	91.65	VARIANCE	566.44	STAN. DEV.	23.80										

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STA 24 MONTH 11 MEAN 112.09 VARIANCE 965.65 STAN. DEV. 31.07
 STA 24 MONTH 12 MEAN 109.44 VARIANCE 2373.91 STAN. DEV. 48.72

1

GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 5

STA 24	MONTH 1	MEAN-0.005	STD DEVO.061
STA 24	MONTH 2	MEAN-0.010	STD DEVO.066
STA 24	MONTH 3	MEAN-0.006	STD DEVO.068
STA 24	MONTH 4	MEAN-0.007	STD DEVO.069
STA 24	MONTH 5	MEAN-0.004	STD DEVO.065
STA 24	MONTH 6	MEAN 0.002	STD DEVO.063
STA 24	MONTH 7	MEAN 0.002	STD DEVO.065
STA 24	MONTH 8	MEAN 0.004	STD DEVO.069
STA 24	MONTH 9	MEAN 0.004	STD DEVO.062
STA 24	MONTH 10	MEAN 0.009	STD DEVO.071
STA 24	MONTH 11	MEAN 0.002	STD DEVO.063
STA 24	MONTH 12	MEAN 0.005	STD DEVO.054

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	401	59.3	36.1	20.2	29.9	106.8	99.1	73.0	90.8	87.6	92.6	185.7	97.7	980.0
24	402	41.4	27.9	20.4	24.1	69.2	93.1	65.6	74.9	73.8	102.2	91.4	108.6	792.0
24	403	41.6	24.1	16.8	17.8	65.7	73.2	119.6	119.0	93.5	96.4	88.0	69.3	826.0
24	404	28.6	29.1	21.7	43.9	83.8	85.2	111.2	106.7	73.7	79.2	90.4	41.9	796.0
24	405	43.2	42.2	26.2	24.2	76.0	115.7	116.5	125.1	75.0	65.6	89.8	100.3	899.0
24	406	50.6	27.0	17.2	27.6	44.1	65.7	72.7	75.0	74.5	72.7	75.5	127.0	731.0
24	407	71.3	30.8	26.1	18.9	64.8	62.7	90.3	93.1	100.0	97.1	134.7	115.5	905.0
24	408	33.7	26.5	27.0	109.5	96.4	74.4	78.4	88.0	94.3	92.4	119.2	66.5	903.0
24	409	48.4	42.8	24.3	17.0	50.8	42.7	78.6	102.4	73.7	101.2	151.6	159.3	893.0
24	410	48.3	30.0	24.3	23.0	83.0	93.7	64.6	68.3	87.3	97.4	119.4	71.4	809.0
24	411	40.9	23.3	14.4	17.4	41.5	64.6	59.4	63.6	95.6	133.1	119.1	208.3	881.0
24	412	87.1	41.1	33.4	32.2	57.1	85.9	70.1	61.1	77.1	91.5	88.7	86.3	811.0
24	413	27.1	20.2	13.6	28.8	93.1	105.7	78.9	63.0	74.6	74.1	103.8	200.1	884.0
24	414	69.3	28.8	22.7	17.9	52.7	74.8	53.9	101.2	98.2	85.1	88.8	158.3	852.0
24	415	62.2	30.6	19.2	20.0	80.9	77.2	93.4	74.9	80.0	101.6	116.4	75.7	832.0
24	416	25.8	23.1	19.7	17.2	54.8	76.7	87.3	78.6	83.6	92.6	148.1	190.9	900.0
24	417	135.3	107.6	56.2	76.8	174.1	117.5	84.6	81.7	81.3	95.4	140.7	118.8	1271.0
24	418	60.4	54.8	42.8	44.0	131.6	86.6	68.1	83.5	85.1	92.8	83.4	57.8	891.0
24	419	40.9	24.3	16.8	29.5	54.9	94.7	100.6	117.8	88.5	66.1	103.8	126.1	866.0
24	420	53.7	33.5	23.8	43.8	78.5	73.2	47.1	54.2	85.1	88.5	122.4	79.5	784.0
24	421	42.8	27.7	16.8	19.4	60.4	70.7	85.2	105.1	97.1	76.0	114.0	109.4	824.0
24	422	75.9	40.5	23.5	32.3	86.5	100.7	73.1	69.9	87.5	94.6	102.9	112.2	901.0
24	423	55.7	25.4	21.2	39.4	68.2	107.7	117.2	121.7	81.7	86.9	93.6	115.3	934.0
24	424	43.9	31.1	23.1	34.2	51.9	76.2	106.5	92.5	90.7	80.4	98.4	165.8	895.0
24	425	48.6	27.6	20.5	25.9	93.6	62.8	99.3	74.2	92.0	74.3	117.9	62.0	799.0
24	426	35.9	32.9	28.8	52.2	85.4	99.3	130.7	109.1	95.5	94.9	110.5	75.7	951.0
24	427	41.0	22.7	16.9	15.5	66.0	51.6	56.8	46.9	68.7	69.3	115.1	125.6	698.0
24	428	95.6	40.6	27.2	157.7	112.9	97.8	94.5	112.2	87.8	77.3	119.5	95.6	1120.0
24	429	42.2	29.2	24.0	72.3	67.6	85.8	74.9	89.1	106.9	90.6	93.0	102.5	878.0
24	430	38.3	31.0	24.3	53.4	108.8	111.4	97.6	95.3	91.1	83.7	111.2	102.1	947.0
24	431	47.3	28.6	19.6	15.2	60.6	60.5	75.1	94.1	80.9	114.9	143.9	79.9	821.0
24	432	61.2	39.2	27.6	18.1	56.0	96.0	80.7	123.0	89.3	76.7	117.5	92.4	878.0
24	433	42.7	28.6	19.7	23.9	72.0	55.7	46.3	60.2	82.6	86.4	84.6	82.6	687.0
24	434	36.3	27.5	24.2	42.6	88.2	94.1	110.0	126.0	95.6	170.6	136.1	57.0	1008.0
24	435	55.2	36.0	28.8	40.1	81.0	97.9	100.4	112.3	87.4	79.8	146.7	78.3	943.0
24	436	34.6	20.3	15.6	23.8	60.2	65.7	112.7	96.6	83.4	103.8	89.9	103.3	811.0

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24	437	35.6	20.7	13.4	20.9	48.4	50.6	73.7	117.0	82.7	79.9	116.4	87.9	748.0
24	438	41.3	25.2	18.5	15.4	63.4	70.8	96.7	104.1	64.8	121.4	181.4	64.0	865.0
24	439	29.8	20.8	14.0	52.4	65.8	81.7	89.2	112.0	78.5	93.6	93.2	81.7	813.0
24	440	39.9	26.7	16.9	38.8	68.2	53.1	53.6	80.5	78.3	102.1	108.5	71.1	739.0
24	441	59.2	38.1	27.6	151.8	72.2	93.1	115.6	127.5	103.1	87.9	77.3	97.7	1051.0
24	442	69.1	30.5	22.0	63.8	94.2	83.9	102.8	78.3	92.3	89.5	91.3	209.4	1026.0
24	443	113.2	34.3	31.6	56.6	120.1	89.2	75.4	60.1	49.6	87.4	101.0	93.7	912.0
24	444	35.9	20.1	10.7	13.2	30.9	58.7	119.4	111.8	102.5	162.5	121.1	77.3	863.0
24	445	37.3	33.3	24.7	57.5	85.8	64.7	69.7	69.6	63.4	66.1	79.1	95.3	746.0
24	446	42.4	24.3	17.0	16.2	64.7	77.0	66.0	73.7	75.6	90.8	65.0	109.0	722.0
24	447	125.4	105.8	41.2	39.5	127.6	89.3	91.0	95.3	84.6	107.7	122.8	111.2	1141.0
24	448	60.7	32.3	22.7	36.9	57.5	77.6	83.9	92.2	103.2	141.2	108.2	86.8	904.0
24	449	38.4	29.0	21.8	21.2	52.1	68.0	102.8	99.7	64.1	74.7	97.8	205.4	875.0
24	450	192.9	71.1	47.0	85.4	79.0	71.8	38.9	53.3	60.7	88.1	168.4	310.6	1267.0
24	451	46.6	29.5	24.0	36.6	51.3	68.7	77.7	80.5	67.7	72.3	164.9	50.1	772.0
24	452	27.7	17.6	11.8	15.6	46.4	85.3	107.8	103.8	90.0	104.3	136.1	77.1	824.0
24	453	34.9	27.8	19.4	42.5	60.5	75.5	129.2	125.0	101.6	101.6	105.6	77.9	903.0
24	454	42.4	36.3	28.2	31.6	81.5	66.8	98.4	118.1	95.6	99.7	122.0	63.3	883.0
24	455	56.7	39.6	29.1	21.5	70.9	83.6	110.8	84.6	76.9	92.4	123.5	109.3	899.0
24	456	36.6	24.6	24.7	22.6	49.1	82.8	86.0	70.6	66.3	72.9	87.3	102.4	727.0
24	457	43.2	26.6	19.0	30.4	65.1	104.0	118.6	127.6	105.0	102.8	73.7	128.5	946.0
24	458	44.6	24.1	20.3	31.5	62.3	71.6	106.4	97.5	89.9	131.7	135.1	122.9	939.0
24	459	88.2	50.1	31.7	21.9	56.2	73.0	44.8	53.0	88.1	116.8	130.6	86.2	841.0
24	460	38.2	26.6	19.7	26.4	61.3	80.4	79.1	97.4	75.1	69.3	119.5	87.2	779.0
24	461	71.5	28.4	27.1	21.6	33.7	51.4	73.0	76.3	93.0	94.0	126.5	166.3	862.0
24	462	81.2	42.5	35.1	36.2	67.6	97.6	90.4	108.0	69.2	82.7	87.2	48.5	846.0
24	463	34.0	23.3	18.2	17.9	47.4	50.0	76.6	89.7	79.9	83.3	124.1	173.8	818.0
24	464	92.9	45.9	33.6	37.3	62.7	57.2	69.0	61.6	83.9	92.9	171.4	233.9	1043.0
24	465	56.3	42.9	31.1	31.3	58.7	92.0	105.9	100.6	68.2	75.2	89.5	218.0	969.0
24	466	151.7	49.3	47.9	59.2	137.3	106.0	111.8	104.0	83.0	91.5	128.3	162.9	1233.0
24	467	37.2	21.3	14.8	29.2	60.2	75.0	97.7	115.6	98.4	66.1	105.4	82.0	802.0
24	468	29.2	23.9	17.5	24.1	64.6	91.9	105.4	104.1	93.3	84.7	141.2	292.0	1071.0
24	469	70.6	35.2	23.7	28.4	85.3	85.5	96.0	107.5	93.4	94.5	147.3	97.5	963.0
24	470	120.8	59.4	31.5	69.0	105.8	92.6	76.8	64.0	72.1	87.1	114.6	92.2	986.0
24	471	51.0	35.3	41.9	43.2	83.4	93.1	76.6	99.4	94.8	81.1	76.3	105.7	881.0
24	472	63.7	39.9	32.3	42.0	63.2	77.9	29.6	60.2	66.8	101.7	89.6	95.4	763.0
24	473	35.8	36.9	20.1	19.5	47.7	59.7	100.9	114.8	97.0	98.0	81.5	89.3	801.0
24	474	26.7	26.5	23.7	22.5	57.6	83.0	66.6	81.6	86.4	95.1	119.8	157.4	848.0
24	475	40.3	30.1	24.6	22.3	47.8	64.2	120.4	124.3	85.6	159.8	128.1	119.3	966.0
24	476	62.7	38.6	26.4	49.9	120.0	107.2	105.3	120.9	110.5	86.1	145.8	209.3	1182.0
24	477	131.8	25.8	19.5	14.2	55.4	79.8	70.2	102.5	81.8	169.8	165.3	117.4	1034.0
24	478	64.6	32.1	35.1	35.0	75.2	97.8	108.9	108.6	82.8	76.5	105.9	49.7	874.0
24	479	35.7	25.0	21.6	22.5	66.5	88.8	70.2	94.9	77.9	74.1	177.4	136.7	891.0
24	480	59.3	45.5	30.9	20.2	38.8	66.9	97.0	99.0	85.3	74.2	90.2	62.8	770.0
24	481	29.8	24.5	18.3	21.4	82.7	79.6	101.3	107.8	86.7	96.0	72.0	116.1	837.0
24	482	79.5	39.3	29.7	64.0	88.7	69.8	74.4	72.8	74.8	68.8	111.3	121.6	895.0
24	483	57.5	29.0	22.0	28.8	76.5	57.3	79.8	80.3	97.7	127.1	139.5	118.8	916.0
24	484	42.3	33.4	31.0	24.3	68.9	95.8	66.8	45.5	50.2	78.3	88.8	108.0	732.0
24	485	35.6	31.2	25.9	55.1	81.0	106.1	99.8	111.5	103.8	121.0	136.9	52.0	961.0
24	486	42.3	33.7	23.2	53.6	86.0	102.3	103.8	87.7	101.8	79.0	100.9	184.1	999.0
24	487	41.8	27.5	20.1	22.2	66.9	62.0	104.4	96.8	80.1	83.3	77.7	158.6	842.0
24	488	52.9	27.5	22.2	35.1	92.4	65.9	98.1	91.5	91.7	78.6	91.9	133.5	882.0
24	489	43.1	31.0	26.5	23.8	59.9	54.2	54.1	68.1	70.8	88.5	72.2	71.4	662.0
24	490	43.8	27.3	22.5	14.7	81.9	89.7	109.9	107.9	90.0	76.1	100.8	70.4	836.0

24	491	40.7	37.5	23.7	26.6	87.9	102.0	104.0	81.1	92.5	69.4	155.7	70.4	893.0
24	492	57.9	25.8	16.8	29.6	61.0	67.5	93.8	90.7	98.7	86.4	121.5	76.1	828.0
24	493	55.7	33.4	25.1	43.5	152.0	110.7	90.2	79.0	92.5	109.5	134.5	117.5	1043.0
24	494	36.1	20.2	14.2	24.4	55.2	61.5	79.6	56.1	60.3	91.6	126.7	80.7	707.0
24	495	25.8	21.1	15.6	19.8	65.3	68.7	84.3	66.0	76.3	81.9	97.5	80.4	703.0
24	496	50.0	26.3	16.5	15.8	37.7	37.0	41.1	72.2	82.6	102.6	108.5	172.5	762.0
24	497	66.8	44.1	28.2	40.4	65.7	82.6	97.8	78.3	86.3	115.5	98.8	43.2	848.0
24	498	32.6	19.4	14.9	25.6	88.9	80.8	73.9	70.7	79.3	69.2	114.8	141.6	813.0
24	499	73.4	27.6	26.9	48.5	73.2	53.4	65.5	83.6	64.7	72.8	65.9	46.9	703.0
24	500	28.6	23.7	16.8	33.4	71.0	109.4	91.8	95.1	65.0	72.0	108.1	78.0	793.0

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MAXIMUM VOLUMES FOR PERIOD 5 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	192.9	107.6	56.2	157.7	174.1	117.5	130.7	127.6	110.5	170.6	185.7	310.6	310.6	820.8	4792.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	25.8	17.6	10.7	13.2	30.9	37.0	29.6	45.5	49.6	65.6	65.0	41.9	10.7	169.2	3282.
STA 24 MONTH 1 MEAN	54.71	VARIANCE	840.81	STAN. DEV.	29.00										
STA 24 MONTH 2 MEAN	32.75	VARIANCE	202.68	STAN. DEV.	14.24										
STA 24 MONTH 3 MEAN	23.85	VARIANCE	68.28	STAN. DEV.	8.26										
STA 24 MONTH 4 MEAN	35.42	VARIANCE	596.60	STAN. DEV.	24.43										
STA 24 MONTH 5 MEAN	72.64	VARIANCE	661.81	STAN. DEV.	25.73										
STA 24 MONTH 6 MEAN	78.82	VARIANCE	372.12	STAN. DEV.	19.29										
STA 24 MONTH 7 MEAN	85.83	VARIANCE	529.49	STAN. DEV.	23.01										
STA 24 MONTH 8 MEAN	89.70	VARIANCE	522.60	STAN. DEV.	22.86										
STA 24 MONTH 9 MEAN	83.44	VARIANCE	222.76	STAN. DEV.	14.93										
STA 24 MONTH 10 MEAN	91.98	VARIANCE	548.42	STAN. DEV.	23.42										
STA 24 MONTH 11 MEAN	112.16	VARIANCE	856.92	STAN. DEV.	29.27										
STA 24 MONTH 12 MEAN	110.99	VARIANCE	2763.97	STAN. DEV.	52.57										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 6

STA 24 MONTH 1	MEAN 0.008	STD DEVO 0.052
STA 24 MONTH 2	MEAN -0.002	STD DEVO 0.057
STA 24 MONTH 3	MEAN 0.001	STD DEVO 0.063
STA 24 MONTH 4	MEAN 0.006	STD DEVO 0.065
STA 24 MONTH 5	MEAN 0.006	STD DEVO 0.068
STA 24 MONTH 6	MEAN -0.008	STD DEVO 0.064
STA 24 MONTH 7	MEAN -0.011	STD DEVO 0.064
STA 24 MONTH 8	MEAN -0.004	STD DEVO 0.065
STA 24 MONTH 9	MEAN -0.002	STD DEVO 0.060
STA 24 MONTH 10	MEAN -0.002	STD DEVO 0.062
STA 24 MONTH 11	MEAN 0.008	STD DEVO 0.056
STA 24 MONTH 12	MEAN 0.006	STD DEVO 0.056

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	501	31.8	23.1	18.1	72.9	130.5	79.1	89.9	81.6	77.4	144.5	213.4	144.5	1106.0
24	502	84.1	52.4	33.5	36.0	80.3	87.3	98.2	108.6	61.6	101.1	127.8	125.7	996.0
24	503	43.3	22.1	17.1	26.3	56.4	116.0	95.9	69.2	83.8	66.9	121.0	118.7	836.0
24	504	61.0	52.3	36.3	43.0	74.1	89.0	69.0	84.6	78.6	93.4	91.1	130.3	902.0
24	505	127.7	36.8	24.7	24.1	51.8	73.7	66.9	100.0	90.4	69.9	107.4	166.7	941.0
24	506	35.8	18.9	11.8	17.6	54.8	80.4	79.4	91.7	96.1	124.2	125.4	111.0	847.0
24	507	183.4	65.7	33.5	23.8	46.7	55.5	87.0	91.1	96.9	87.8	142.4	122.0	1036.0

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24	508	79.9	24.2	20.9	34.2	77.3	100.2	107.6	118.9	84.9	106.6	112.7	207.8	1076.0
24	509	66.0	44.8	43.4	80.3	129.2	72.7	72.2	86.3	70.9	93.1	151.2	135.2	1044.0
24	510	72.8	28.8	20.6	15.2	53.0	67.9	63.2	97.8	74.2	75.0	102.7	94.3	766.0
24	511	49.6	31.9	22.0	14.3	44.9	92.1	99.6	133.9	93.5	107.0	90.6	65.8	847.0
24	512	27.0	27.0	19.8	20.8	60.8	75.3	108.7	104.3	105.2	76.4	123.9	165.4	914.0
24	513	41.1	27.0	20.8	22.4	59.6	52.5	42.7	33.7	65.0	68.8	102.9	60.4	598.0
24	514	51.1	34.3	25.8	30.1	100.7	105.2	115.3	106.7	93.4	87.4	65.7	45.5	861.0
24	515	63.3	45.7	39.8	43.3	102.2	85.7	105.2	111.2	65.9	88.3	111.9	247.7	1110.0
24	516	56.6	31.2	29.0	19.7	79.5	74.6	104.0	118.7	88.4	102.6	92.1	72.2	869.0
24	517	43.2	28.3	20.1	19.5	60.8	88.7	110.0	127.4	87.0	138.7	124.3	107.7	955.0
24	518	42.3	28.2	21.6	31.4	71.1	82.1	109.7	115.6	98.7	83.2	95.0	126.2	905.0
24	519	69.5	43.6	32.5	18.7	43.6	56.1	103.9	106.6	86.8	98.4	99.1	81.1	840.0
24	520	35.1	37.5	30.1	36.2	62.6	100.7	117.9	128.0	93.6	78.0	90.4	102.7	914.0
24	521	43.2	29.9	24.8	23.0	45.7	66.6	72.1	58.1	63.5	121.1	76.1	64.2	688.0
24	522	32.2	26.1	18.3	24.3	49.8	70.3	62.1	79.0	81.9	77.7	90.0	58.3	669.0
24	523	43.7	45.0	27.3	27.5	62.7	58.6	66.4	71.8	93.7	86.4	142.2	127.5	852.0
24	524	47.5	28.0	17.7	12.2	43.5	42.6	49.6	78.6	99.9	190.4	141.7	61.7	815.0
24	525	68.0	29.2	22.6	27.2	56.1	94.0	66.6	64.0	68.6	83.6	74.5	136.3	792.0
24	526	35.3	27.8	26.7	35.7	63.8	66.7	93.7	90.3	76.6	86.4	120.9	135.4	860.0
24	527	48.4	31.6	19.2	57.7	116.0	89.9	63.0	60.2	89.4	104.5	105.1	114.4	898.0
24	528	47.8	31.8	18.1	21.2	58.1	71.1	93.6	74.0	75.3	108.4	188.5	93.5	882.0
24	529	52.8	26.7	21.2	33.3	61.9	81.0	84.1	54.2	84.7	99.0	80.9	134.2	814.0
24	530	45.7	23.0	16.1	24.5	42.6	84.2	47.3	49.7	76.0	71.0	148.9	125.3	755.0
24	531	60.4	23.8	16.5	15.1	64.2	54.4	64.9	60.7	73.3	83.2	127.8	166.4	809.0
24	532	50.5	30.8	22.8	26.9	92.0	71.3	76.4	98.8	87.5	84.2	147.5	85.8	873.0
24	533	74.7	45.7	42.3	128.2	98.2	72.3	77.1	102.6	94.7	92.8	156.4	116.3	1101.0
24	534	28.3	21.5	20.2	16.9	48.9	68.7	74.8	93.4	73.4	65.2	73.4	153.6	738.0
24	535	69.9	36.5	31.6	50.2	73.9	77.1	96.2	90.6	109.3	83.5	111.3	109.9	940.0
24	536	65.2	25.2	18.2	21.0	49.7	83.6	119.0	87.5	62.3	85.0	99.4	207.1	922.0
24	537	62.9	31.4	25.9	24.0	43.3	68.9	81.9	72.2	93.8	83.4	130.3	191.4	908.0
24	538	87.1	45.7	27.0	23.8	72.8	81.5	90.0	89.1	75.3	82.2	86.1	151.0	912.0
24	539	46.1	25.7	22.9	26.2	55.1	70.7	106.5	102.7	86.2	113.4	113.1	123.6	892.0
24	540	61.6	21.3	16.1	44.4	93.0	82.4	108.7	107.2	81.2	71.0	85.2	141.5	912.0
24	541	44.5	46.6	29.0	26.0	70.0	98.1	117.5	116.0	67.3	65.4	71.8	69.9	822.0
24	542	48.2	48.5	36.0	40.1	50.3	69.0	84.4	78.2	85.7	76.4	122.5	52.6	790.0
24	543	64.8	45.3	29.9	30.8	108.4	124.2	99.0	124.8	110.0	131.9	186.8	53.6	1110.0
24	544	30.4	22.4	14.0	15.8	37.5	50.3	60.9	69.1	77.9	90.5	128.8	160.3	758.0
24	545	149.3	44.6	29.6	130.0	132.8	89.6	76.2	68.5	85.5	83.0	68.6	127.3	1086.0
24	546	64.6	50.0	42.2	41.8	74.3	70.4	71.9	76.4	67.0	115.1	102.8	104.6	881.0
24	547	52.2	37.1	24.1	37.5	105.5	98.4	84.7	94.0	85.9	147.4	134.7	118.9	1020.0
24	548	52.5	29.3	20.5	31.3	49.9	65.0	73.0	55.4	88.9	87.5	120.6	108.9	783.0
24	549	32.6	29.8	24.6	73.8	95.3	67.7	91.5	90.0	91.1	99.1	82.6	108.4	888.0
24	550	53.3	31.9	27.8	23.9	67.2	87.8	62.5	95.2	103.1	98.3	110.7	97.9	859.0
24	551	99.4	53.6	24.9	30.5	74.8	97.8	128.3	127.8	85.8	77.3	104.3	170.0	1074.0
24	552	67.6	37.0	25.7	73.8	96.8	99.7	78.7	99.7	86.3	80.0	116.0	81.1	944.0
24	553	50.8	28.5	20.0	24.3	87.9	121.2	128.4	135.5	101.4	85.6	112.4	93.7	989.0
24	554	35.1	25.0	19.1	37.7	80.8	78.0	50.6	72.9	96.6	68.4	108.0	49.1	722.0
24	555	47.3	22.6	18.8	27.6	65.6	86.5	77.8	69.0	58.3	70.8	108.9	116.7	771.0
24	556	39.5	26.2	18.3	29.5	65.8	85.7	90.9	91.6	74.7	82.2	79.1	136.5	820.0
24	557	40.3	29.6	18.8	28.7	75.5	58.3	83.2	77.5	91.2	68.1	85.2	173.3	829.0
24	558	53.4	26.5	21.2	27.3	76.7	95.4	95.0	102.0	90.5	81.5	164.7	137.8	971.0
24	559	43.9	34.4	25.3	65.6	85.9	71.0	71.4	92.2	98.3	98.9	146.8	106.1	939.0
24	560	63.3	32.6	34.5	86.1	107.6	88.5	97.5	82.9	69.2	75.1	125.9	114.3	976.0
24	561	40.9	31.8	27.7	49.4	85.8	100.0	83.2	71.3	62.6	84.1	99.8	105.9	843.0

24	562	38.2	26.1	25.4	19.7	37.3	29.5	54.6	57.5	84.1	109.2	108.6	32.0	622.0
24	563	27.7	19.8	14.0	18.6	59.6	86.2	79.7	106.7	93.9	103.4	111.8	98.8	822.0
24	564	40.2	26.2	23.4	48.3	85.9	90.5	103.1	84.0	65.1	76.0	134.1	64.9	840.0
24	565	36.2	21.6	13.8	18.2	79.3	100.9	66.9	61.4	86.3	94.8	98.9	82.5	761.0
24	566	50.4	46.0	34.0	25.4	65.9	65.5	65.5	78.0	82.8	68.3	73.0	108.3	762.0
24	567	52.7	35.7	27.4	25.2	66.2	82.8	84.6	71.8	78.0	91.4	117.1	195.5	929.0
24	568	40.6	22.4	21.0	19.8	48.2	50.7	65.0	71.7	96.7	113.6	156.3	93.3	800.0
24	569	46.9	21.9	17.4	48.8	95.3	71.2	97.8	100.8	91.9	159.5	104.1	77.5	932.0
24	570	36.7	26.2	19.0	28.3	81.9	63.9	78.3	76.5	96.4	79.9	114.7	76.1	777.0
24	571	29.4	21.8	14.5	28.2	63.8	111.5	117.5	112.3	94.9	78.0	90.2	44.2	805.0
24	572	44.7	30.1	26.4	32.3	72.7	103.0	103.1	81.9	79.7	76.8	68.2	120.2	839.0
24	573	113.0	35.6	22.5	38.8	130.4	106.6	125.7	92.9	56.9	74.0	107.3	101.5	1007.0
24	574	34.2	21.3	17.1	13.4	44.6	65.8	73.1	73.7	67.3	67.9	123.6	136.1	738.0
24	575	39.5	35.1	19.8	33.2	59.6	90.4	95.9	116.2	93.7	110.6	115.8	52.1	862.0
24	576	33.6	44.1	42.7	35.1	62.6	76.5	91.8	106.8	90.7	97.4	86.4	114.0	882.0
24	577	93.8	29.1	16.6	21.1	41.9	80.0	113.1	90.3	99.0	130.9	138.3	79.9	934.0
24	578	37.1	31.3	20.5	45.2	92.9	65.8	71.0	90.3	92.6	97.6	89.8	87.2	821.0
24	579	29.6	19.3	12.9	14.0	46.5	56.1	63.8	98.6	105.2	101.9	162.6	135.5	846.0
24	580	56.4	44.7	27.4	21.3	69.4	67.0	56.7	70.4	87.2	76.2	100.4	34.7	710.0
24	581	25.4	19.7	16.9	37.4	100.3	74.4	55.7	66.3	67.4	81.4	155.1	109.4	807.0
24	582	33.0	27.7	16.7	21.4	62.1	54.7	119.9	126.4	88.3	77.7	140.8	108.5	878.0
24	583	37.8	22.2	15.1	37.7	70.0	90.8	68.1	76.9	94.3	95.7	92.8	30.0	732.0
24	584	30.3	29.6	18.0	25.1	67.5	84.9	75.5	85.0	89.4	119.5	150.9	201.0	977.0
24	585	451.8	89.1	45.8	195.1	168.6	84.3	81.9	85.3	92.2	114.9	117.2	116.4	1642.0
24	586	126.4	73.4	37.7	128.7	98.1	73.3	93.2	97.0	92.0	74.7	81.9	96.5	1072.0
24	587	32.5	22.9	19.2	17.3	70.7	89.4	120.3	108.2	57.1	81.1	120.4	99.1	836.0
24	588	46.0	29.1	24.9	27.6	59.8	48.3	57.7	83.4	85.3	97.3	94.4	88.9	742.0
24	589	37.5	21.0	14.5	22.4	57.6	81.6	112.0	118.4	76.0	90.6	112.2	153.1	897.0
24	590	66.2	26.5	20.8	35.4	93.1	70.0	67.8	87.8	90.1	85.4	115.2	109.2	867.0
24	591	30.8	28.5	24.5	23.2	93.3	104.1	119.2	97.3	88.7	80.4	117.9	80.3	888.0
24	592	42.4	29.4	23.3	16.6	55.4	96.1	83.7	94.9	77.9	80.5	141.6	79.4	820.0
24	593	32.7	25.1	18.9	47.1	59.8	97.8	65.8	91.0	67.8	89.8	81.9	74.2	753.0
24	594	55.8	46.9	35.1	37.3	93.3	118.8	97.0	104.8	91.3	91.0	93.0	85.5	949.0
24	595	28.6	23.1	14.2	33.8	51.7	62.6	45.8	58.7	58.2	86.2	118.8	178.0	761.0
24	596	62.2	32.4	37.1	34.9	81.4	86.3	116.3	106.4	78.5	95.2	104.3	81.0	914.0
24	597	39.7	33.1	32.2	20.0	63.6	68.8	92.5	126.9	88.5	79.3	110.3	68.5	825.0
24	598	43.8	32.8	29.0	50.7	117.5	90.8	92.8	100.6	82.9	89.7	108.5	92.5	933.0
24	599	37.4	24.3	14.1	29.2	56.5	77.1	103.5	95.1	103.5	125.5	95.7	140.4	902.0
24	600	70.3	36.6	19.5	26.1	88.9	77.7	136.1	119.4	80.9	95.4	102.9	83.5	937.0

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MAXIMUM VOLUMES FOR PERIOD 6 OF 100 YEARS OF SYN'THETIC FLOWS															
STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	451.8	89.1	45.8	195.1	168.6	124.2	136.1	135.5	110.0	190.4	213.4	247.7	451.8	1151.4	5085.

MINIMUM VOLUMES															
STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	25.4	18.9	11.8	12.2	37.3	29.5	42.7	33.7	56.9	65.2	65.7	30.0	11.8	170.5	3315.
STA 24 MONTH 1 MEAN	56.51	VARIANCE	2284.42	STAN. DEV.	47.80										
STA 24 MONTH 2 MEAN	32.39	VARIANCE	146.90	STAN. DEV.	12.12										
STA 24 MONTH 3 MEAN	23.82	VARIANCE	65.15	STAN. DEV.	8.07										
STA 24 MONTH 4 MEAN	36.00	VARIANCE	763.77	STAN. DEV.	27.64										
STA 24 MONTH 5 MEAN	72.49	VARIANCE	644.89	STAN. DEV.	25.39										
STA 24 MONTH 6 MEAN	79.11	VARIANCE	372.86	STAN. DEV.	19.31										

STA 24 MONTH 7 MEAN 85.22 VARIANCE 511.04 STAN. DEV. 22.61
 STA 24 MONTH 8 MEAN 89.43 VARIANCE 506.30 STAN. DEV. 22.50
 STA 24 MONTH 9 MEAN 83.28 VARIANCE 226.71 STAN. DEV. 15.06
 STA 24 MONTH 10 MEAN 91.73 VARIANCE 546.34 STAN. DEV. 23.37
 STA 24 MONTH 11 MEAN 112.26 VARIANCE 887.33 STAN. DEV. 29.79
 STA 24 MONTH 12 MEAN 109.41 VARIANCE 1870.48 STAN. DEV. 43.25

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 7

STA 24 MONTH 1 MEAN-0.011 STD DEVO.067
 STA 24 MONTH 2 MEAN-0.002 STD DEVO.067
 STA 24 MONTH 3 MEAN-0.005 STD DEVO.067
 STA 24 MONTH 4 MEAN-0.007 STD DEVO.068
 STA 24 MONTH 5 MEAN-0.008 STD DEVO.064
 STA 24 MONTH 6 MEAN-0.003 STD DEVO.066
 STA 24 MONTH 7 MEAN 0.003 STD DEVO.072
 STA 24 MONTH 8 MEAN 0.000 STD DEVO.067
 STA 24 MONTH 9 MEAN 0.012 STD DEVO.073
 STA 24 MONTH 10 MEAN 0.007 STD DEVO.067
 STA 24 MONTH 11 MEAN 0.009 STD DEVO.055
 STA 24 MONTH 12 MEAN-0.001 STD DEVO.062

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	601	44.1	25.5	18.9	32.5	53.1	50.0	66.3	84.6	82.4	73.3	97.7	74.1	702.0
24	602	43.0	34.8	29.4	43.4	95.8	100.4	122.0	119.7	109.6	118.9	80.3	147.9	1045.0
24	603	70.7	41.1	31.1	40.4	101.9	92.3	108.4	103.6	79.6	109.9	92.2	69.1	940.0
24	604	28.5	23.4	18.5	23.6	56.0	102.5	84.0	86.1	92.5	77.7	111.3	66.5	769.0
24	605	28.6	19.7	14.5	16.5	41.0	69.0	122.9	107.5	82.2	92.0	99.9	87.0	782.0
24	606	37.1	25.0	15.1	35.3	70.4	92.7	101.4	75.1	101.0	152.2	83.4	55.9	843.0
24	607	30.3	21.0	21.7	19.1	60.0	78.2	109.8	94.1	90.5	79.8	97.7	85.8	788.0
24	608	40.9	22.3	20.3	22.1	44.4	53.1	87.3	87.8	93.5	89.2	89.8	145.3	795.0
24	609	72.9	36.3	41.0	20.8	71.6	99.4	119.2	127.7	86.2	70.8	108.5	150.4	1005.0
24	610	46.7	27.9	27.8	35.5	74.1	93.4	65.2	89.7	82.6	76.2	163.7	169.8	954.0
24	611	46.8	41.1	33.8	76.6	97.6	74.7	54.8	42.4	82.4	81.4	103.7	69.0	805.0
24	612	27.8	17.1	9.3	11.8	40.0	102.5	97.6	117.0	106.6	102.7	94.8	79.4	808.0
24	613	59.3	33.0	30.6	34.6	58.1	68.6	67.9	61.4	56.4	68.1	103.9	87.3	729.0
24	614	34.8	22.9	14.6	32.9	74.0	65.9	74.8	78.0	86.1	65.4	116.4	238.0	904.0
24	615	378.9	44.6	29.7	108.2	106.5	89.3	93.3	94.7	95.5	99.2	114.5	125.1	1378.0
24	616	50.1	28.1	23.6	19.6	60.6	75.8	88.3	118.1	103.3	91.8	101.2	79.3	840.0
24	617	46.1	29.1	19.8	21.7	58.3	94.5	91.9	69.0	72.9	78.6	160.5	246.8	989.0
24	618	138.2	58.7	43.3	31.3	63.0	40.9	59.4	58.1	83.9	126.1	198.2	65.4	965.0
24	619	37.8	28.9	23.7	17.1	51.6	70.5	76.1	68.0	68.2	116.4	71.1	50.3	680.0
24	620	25.3	20.1	13.4	18.6	70.7	95.8	93.7	99.0	93.4	107.3	92.7	70.8	801.0
24	621	44.4	25.8	23.7	19.7	58.0	113.0	111.7	121.0	92.9	87.1	94.5	94.6	887.0
24	622	67.5	38.6	27.5	44.5	66.6	94.6	118.0	119.3	93.8	98.8	83.9	145.2	1000.0
24	623	80.8	39.3	23.5	43.0	87.8	103.6	71.5	73.4	85.7	95.3	112.0	67.1	883.0
24	624	35.0	37.4	24.3	21.3	72.3	79.6	62.1	59.8	67.3	72.4	108.4	87.1	725.0
24	625	39.0	24.9	20.5	24.1	95.8	103.4	118.9	130.4	94.2	70.2	128.0	85.0	933.0
24	626	33.1	27.8	22.8	23.7	60.0	96.6	87.4	96.4	101.4	110.4	121.2	169.8	950.0
24	627	96.1	37.4	22.3	25.8	66.1	46.7	56.8	86.7	96.1	103.6	98.8	78.3	815.0
24	628	40.3	26.5	20.5	24.2	68.8	73.8	97.5	85.9	65.6	88.8	97.6	159.6	851.0
24	629	42.5	39.4	24.1	13.5	40.7	67.8	73.4	97.5	87.0	97.7	141.7	140.7	866.0
24	630	68.1	45.7	30.6	30.5	95.9	83.0	106.3	82.2	82.9	75.3	73.2	81.3	855.0
24	631	36.6	27.1	18.0	20.2	45.8	74.8	90.5	89.0	81.7	95.4	145.1	154.8	880.0
24	632	75.3	40.7	28.8	25.2	51.0	67.9	58.3	79.5	85.3	128.0	168.4	88.0	895.0

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24	633	65.3	36.4	25.4	23.3	80.9	94.4	90.6	72.2	73.1	74.5	166.9	206.2	1008.0
24	634	77.1	72.6	44.2	140.4	149.8	105.2	95.5	91.5	87.4	99.8	140.3	60.3	1164.0
24	635	28.3	20.7	17.3	19.7	57.7	87.1	112.1	119.6	59.3	80.2	94.6	48.5	746.0
24	636	35.6	24.5	18.9	26.7	83.6	94.9	95.5	104.6	82.1	106.3	193.2	101.9	970.0
24	637	46.7	26.4	20.0	40.0	82.3	89.5	104.5	110.0	89.9	114.6	104.8	237.8	1067.0
24	638	134.6	35.4	31.7	47.3	90.8	72.8	57.8	64.9	81.5	88.6	101.8	110.8	920.0
24	639	60.4	80.3	44.0	55.3	105.5	75.7	102.8	113.4	80.5	69.7	112.9	134.5	1034.0
24	640	70.6	43.7	32.0	25.5	67.5	31.7	72.9	71.6	93.0	77.9	106.8	68.9	764.0
24	641	67.7	24.0	16.1	17.9	48.6	91.9	110.9	117.2	92.0	73.7	103.4	37.5	801.0
24	642	41.9	35.2	23.4	27.2	77.3	64.9	83.6	94.6	89.1	94.7	138.4	68.6	839.0
24	643	43.6	31.7	21.2	19.1	53.3	108.2	115.6	102.5	108.0	110.5	121.0	126.7	963.0
24	644	65.0	32.0	27.9	69.2	127.7	96.6	117.3	140.6	84.6	111.1	160.2	188.4	1221.0
24	645	32.6	24.0	13.6	28.1	76.1	68.9	108.4	100.1	109.5	146.7	118.7	130.7	959.0
24	646	48.8	56.7	34.9	42.9	107.4	100.2	101.1	93.8	75.3	83.3	72.8	86.8	904.0
24	647	40.6	32.8	22.7	34.8	89.2	68.6	99.0	91.0	73.2	129.1	123.6	111.5	918.0
24	648	81.3	37.2	21.5	15.6	52.5	87.6	92.2	93.6	71.5	74.6	83.1	56.4	769.0
24	649	38.6	26.1	18.9	48.2	81.8	96.2	104.0	101.0	90.9	68.9	120.6	160.5	956.0
24	650	66.6	37.6	33.3	36.9	63.1	72.3	70.0	73.9	61.6	82.9	117.2	113.3	829.0
24	651	41.9	28.1	21.8	34.7	54.6	78.7	78.2	106.3	99.9	112.6	118.3	80.5	857.0
24	652	53.4	44.8	26.8	39.7	103.9	65.9	39.6	37.2	72.4	73.4	111.8	64.8	734.0
24	653	49.8	35.3	31.5	32.8	106.8	89.0	106.4	125.1	99.8	111.5	75.3	110.2	973.0
24	654	65.9	30.9	28.8	34.6	100.3	92.8	75.5	108.3	74.2	79.7	150.1	68.2	909.0
24	655	37.5	25.1	17.9	29.2	56.7	97.6	88.6	85.5	80.9	70.1	141.5	95.6	828.0
24	656	37.9	28.5	23.6	45.4	63.7	93.6	85.0	99.2	75.7	75.8	126.4	79.1	834.0
24	657	46.6	35.4	23.3	27.7	51.8	56.9	73.1	73.3	84.9	68.2	91.3	102.7	735.0
24	658	43.2	31.7	17.3	79.7	114.1	105.5	102.1	103.8	74.6	80.5	88.2	92.5	933.0
24	659	73.6	29.8	21.8	49.4	115.0	95.8	68.8	91.8	61.1	106.6	85.0	139.4	939.0
24	660	38.6	22.4	18.6	20.9	53.8	85.3	83.3	108.1	82.1	93.2	91.5	131.3	829.0
24	661	57.4	33.0	27.9	139.7	158.4	86.7	72.5	95.3	94.0	105.6	117.0	64.2	1051.0
24	662	27.4	20.7	16.4	18.9	48.9	73.8	46.8	47.7	83.7	96.1	94.2	34.2	609.0
24	663	30.6	23.2	16.8	29.7	63.0	80.9	58.3	69.2	76.9	78.4	94.8	114.3	736.0
24	664	39.3	21.8	13.6	14.4	34.1	42.5	42.6	92.4	93.5	89.1	147.4	117.3	787.0
24	665	72.9	32.2	25.8	24.0	69.0	88.2	66.5	82.9	95.5	82.9	68.7	78.6	788.0
24	666	28.5	24.1	19.9	48.1	81.1	73.0	68.2	78.4	62.0	84.6	127.3	135.6	830.0
24	667	37.8	37.5	31.5	29.7	49.4	65.9	87.6	71.9	70.9	64.7	72.2	57.2	676.0
24	668	38.7	24.7	21.8	27.2	108.6	81.2	88.4	69.1	69.0	83.1	92.5	70.6	776.0
24	669	36.7	26.5	29.2	74.6	75.3	83.0	75.1	77.1	100.2	168.6	131.6	154.0	1032.0
24	670	90.7	40.0	29.0	42.7	82.9	88.3	102.9	72.0	91.5	102.2	123.4	90.5	956.0
24	671	31.9	24.2	19.8	20.8	109.3	78.8	54.8	72.9	56.1	86.5	115.1	127.7	798.0
24	672	97.9	46.9	33.8	36.1	82.0	63.5	85.4	84.9	86.3	79.4	127.3	215.5	1039.0
24	673	57.1	29.9	21.4	20.2	57.5	60.1	103.3	107.0	67.4	84.1	143.8	64.2	814.0
24	674	26.7	18.5	12.8	20.0	61.2	69.0	88.2	106.2	96.6	101.7	115.0	285.8	1003.0
24	675	129.9	38.1	24.0	18.6	45.1	78.2	86.1	106.0	81.9	106.1	119.0	158.4	991.0
24	676	34.9	28.7	24.6	35.5	95.4	93.4	110.2	99.5	93.3	93.5	167.8	112.4	989.0
24	677	68.3	63.3	46.9	116.5	78.0	72.1	89.1	78.8	86.9	114.5	127.0	141.7	1084.0
24	678	42.4	26.2	15.9	25.6	59.4	60.3	103.7	89.4	74.9	83.6	103.8	116.8	802.0
24	679	53.2	28.4	16.2	20.9	80.5	86.7	130.6	120.7	95.3	82.0	86.5	54.5	855.0
24	680	48.7	28.4	20.4	28.8	65.8	96.8	93.6	119.7	72.5	92.8	142.2	76.5	888.0
24	681	39.1	27.0	19.8	25.5	46.3	43.4	35.6	50.5	59.2	79.1	78.8	143.5	648.0
24	682	65.7	35.8	26.8	79.5	127.8	103.2	94.4	102.3	82.1	67.3	70.0	203.1	1058.0
24	683	112.3	68.7	42.2	95.0	97.0	98.0	105.2	77.3	85.2	90.8	185.1	92.4	1148.0
24	684	42.7	37.6	22.6	60.9	78.2	97.1	114.5	106.9	92.4	81.7	90.7	113.1	939.0
24	685	48.3	27.6	19.1	29.2	80.3	96.7	120.1	106.6	102.1	105.0	114.2	94.0	943.0
24	686	44.5	28.9	23.8	31.3	70.9	96.4	106.1	115.1	80.2	80.3	124.0	141.2	941.0

24	687	74.5	41.8	23.2	19.3	47.6	93.1	98.3	96.9	88.9	84.2	96.2	82.2	846.0
24	688	72.5	43.0	31.6	27.7	93.4	101.2	117.0	112.1	77.1	77.8	109.9	97.8	961.0
24	689	48.4	34.0	23.4	18.2	51.7	64.8	52.8	54.2	93.8	72.8	85.3	79.1	678.0
24	690	45.4	26.0	20.4	18.4	53.0	55.6	80.5	86.9	74.6	76.8	78.9	124.4	740.0
24	691	103.4	35.8	25.5	28.8	51.9	63.7	72.5	98.0	80.3	105.0	121.9	98.6	887.0
24	692	42.1	22.9	12.2	20.6	41.0	50.6	88.1	115.4	106.8	119.3	82.4	187.6	889.0
24	693	51.0	31.5	24.1	22.9	79.4	58.7	60.9	63.1	77.8	70.2	130.8	68.4	739.0
24	694	42.4	38.5	29.9	27.8	56.7	84.7	83.1	79.3	81.4	93.8	127.6	98.8	844.0
24	695	48.8	23.8	24.0	54.8	83.0	58.5	59.0	86.0	88.4	86.3	116.8	104.5	833.0
24	696	51.2	22.8	16.7	22.6	56.5	82.6	63.4	68.7	90.1	139.0	101.3	123.6	839.0
24	697	41.7	29.1	24.5	24.0	65.0	74.0	44.3	70.3	83.9	73.2	129.3	93.9	753.0
24	698	33.2	22.3	17.8	14.2	56.3	39.7	49.7	66.9	63.7	102.3	118.5	124.0	708.0
24	699	34.3	22.4	14.2	34.0	51.9	64.3	60.8	69.0	77.6	95.9	143.0	95.1	762.0
24	700	45.3	28.6	21.9	57.2	69.5	73.5	100.9	102.1	81.9	110.2	97.1	173.7	962.0

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MAXIMUM VOLUMES FOR PERIOD 7 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	378.9	80.3	46.9	140.4	158.4	113.0	130.6	140.6	109.6	168.6	198.2	285.8	378.9	962.8	4834.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	25.3	17.1	9.3	11.8	34.1	31.7	35.6	37.2	56.1	64.7	68.7	34.2	9.3	165.7	3186.
STA 24 MONTH 1 MEAN	55.73	VARIANCE	1628.96	STAN. DEV.	40.36										
STA 24 MONTH 2 MEAN	32.37	VARIANCE	137.28	STAN. DEV.	11.72										
STA 24 MONTH 3 MEAN	23.75	VARIANCE	61.35	STAN. DEV.	7.83										
STA 24 MONTH 4 MEAN	35.37	VARIANCE	611.59	STAN. DEV.	24.73										
STA 24 MONTH 5 MEAN	72.66	VARIANCE	637.77	STAN. DEV.	25.25										
STA 24 MONTH 6 MEAN	79.31	VARIANCE	380.71	STAN. DEV.	19.51										
STA 24 MONTH 7 MEAN	85.71	VARIANCE	533.64	STAN. DEV.	23.10										
STA 24 MONTH 8 MEAN	89.64	VARIANCE	513.94	STAN. DEV.	22.67										
STA 24 MONTH 9 MEAN	83.24	VARIANCE	221.48	STAN. DEV.	14.88										
STA 24 MONTH 10 MEAN	91.39	VARIANCE	477.64	STAN. DEV.	21.85										
STA 24 MONTH 11 MEAN	112.35	VARIANCE	896.95	STAN. DEV.	29.95										
STA 24 MONTH 12 MEAN	109.64	VARIANCE	2456.98	STAN. DEV.	49.57										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 8

STA 24 MONTH 1	MEAN-0.006	STD DEVO.062
STA 24 MONTH 2	MEAN-0.001	STD DEVO.068
STA 24 MONTH 3	MEAN 0.001	STD DEVO.067
STA 24 MONTH 4	MEAN 0.002	STD DEVO.064
STA 24 MONTH 5	MEAN-0.001	STD DEVO.068
STA 24 MONTH 6	MEAN-0.001	STD DEVO.067
STA 24 MONTH 7	MEAN-0.001	STD DEVO.060
STA 24 MONTH 8	MEAN 0.007	STD DEVO.066
STA 24 MONTH 9	MEAN-0.002	STD DEVO.063
STA 24 MONTH 10	MEAN 0.004	STD DEVO.055
STA 24 MONTH 11	MEAN 0.000	STD DEVO.059
STA 24 MONTH 12	MEAN-0.004	STD DEVO.062

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	701	89.6	66.4	54.0	49.4	64.7	72.4	109.1	110.4	90.2	130.4	119.7	49.8	1005.0
24	702	30.8	30.6	19.1	21.5	57.6	69.0	96.7	80.2	57.2	66.1	141.5	134.4	805.0
24	703	55.0	41.4	32.9	30.7	64.3	85.5	82.6	121.8	79.2	87.9	116.4	144.3	942.0

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24	704	36.2	24.4	17.5	17.6	62.2	100.6	65.4	52.5	80.4	80.9	166.7	110.1	814.0
24	705	42.7	32.2	22.0	15.3	50.1	70.9	61.8	89.7	78.3	100.2	157.0	145.0	865.0
24	706	69.6	30.1	20.5	35.1	71.9	81.4	83.8	75.8	80.3	74.1	141.0	92.8	856.0
24	707	35.8	31.3	23.0	21.0	56.0	93.0	94.3	90.3	97.6	95.7	126.2	132.0	896.0
24	708	29.3	23.0	21.8	36.9	68.4	94.9	99.8	86.3	67.6	72.0	134.9	91.2	826.0
24	709	82.7	34.4	23.3	33.4	90.5	101.9	107.9	73.4	57.8	65.6	91.9	131.2	894.0
24	710	111.3	51.3	34.6	18.4	53.0	74.4	69.7	82.4	72.4	93.5	77.3	195.4	931.0
24	711	106.4	40.1	27.8	99.7	180.6	88.0	128.7	138.6	104.3	179.5	78.9	77.6	1252.0
24	712	36.1	21.4	13.9	13.3	38.5	54.7	67.2	74.9	85.7	102.6	143.3	221.6	873.0
24	713	68.6	34.2	36.4	66.7	81.3	69.7	61.1	79.9	78.6	65.5	129.4	136.3	908.0
24	714	92.3	60.4	37.4	39.1	64.1	68.7	75.3	66.0	98.1	88.3	115.6	121.3	925.0
24	715	63.5	29.9	24.6	64.3	98.5	77.2	93.1	92.0	105.9	119.6	123.7	115.8	1009.0
24	716	44.0	26.4	21.4	15.9	46.8	63.6	43.2	76.1	79.9	93.4	115.2	66.5	691.0
24	717	47.5	33.5	33.0	40.8	58.1	83.1	84.6	94.7	91.1	73.8	118.4	122.2	881.0
24	718	50.5	38.2	24.8	34.9	80.5	59.2	104.9	122.1	92.6	92.7	110.7	210.2	1022.0
24	719	108.4	27.8	21.3	30.9	85.3	109.7	119.0	97.1	77.4	84.4	149.1	125.7	1035.0
24	720	54.8	30.7	30.0	38.6	87.4	69.0	101.9	96.2	79.8	92.5	98.7	129.8	910.0
24	721	45.7	26.8	20.0	51.0	146.9	109.9	130.0	122.3	85.7	92.0	107.5	79.2	1018.0
24	722	38.0	26.6	23.5	33.4	65.2	48.4	79.2	104.3	61.8	82.6	74.5	148.4	785.0
24	723	36.0	28.7	22.9	27.5	72.6	69.7	60.3	51.1	65.0	83.5	119.4	84.9	722.0
24	724	38.6	24.4	19.9	23.7	67.4	78.7	84.9	75.1	80.3	70.6	133.9	83.0	781.0
24	725	44.1	23.9	19.1	30.1	50.1	76.6	71.2	90.5	59.7	70.7	149.9	101.4	788.0
24	726	36.1	27.5	21.1	35.4	86.0	83.7	98.6	98.6	80.3	130.9	130.0	89.8	919.0
24	727	53.4	31.8	30.2	32.8	58.1	65.5	96.2	110.7	92.1	121.7	114.1	142.5	950.0
24	728	51.4	52.9	44.6	65.4	84.9	88.4	72.4	64.5	71.6	95.8	117.8	89.1	899.0
24	729	50.2	38.0	31.8	41.0	93.5	74.0	61.2	54.9	80.3	81.3	114.8	84.7	806.0
24	730	39.1	37.3	22.9	14.2	31.1	53.3	56.2	78.8	94.1	90.4	60.6	78.8	656.0
24	731	32.6	23.4	17.0	25.6	72.7	71.3	111.9	109.7	95.6	94.8	111.6	93.2	861.0
24	732	39.8	33.3	29.6	39.2	79.9	90.7	70.0	58.7	72.3	101.5	86.2	94.7	797.0
24	733	32.6	20.9	14.6	41.2	97.7	61.4	54.9	79.2	86.6	81.8	100.5	128.4	800.0
24	734	95.4	46.4	27.8	35.0	60.4	64.0	80.9	86.1	62.2	66.2	116.8	120.2	860.0
24	735	59.2	35.8	24.1	31.5	72.8	76.8	62.2	71.0	85.2	93.5	160.7	72.9	847.0
24	736	29.9	29.3	19.7	18.7	43.4	61.3	70.9	99.6	96.2	131.7	106.2	112.7	820.0
24	737	31.4	25.2	24.5	40.5	60.6	87.8	96.6	99.6	107.5	93.3	98.9	91.5	857.0
24	738	42.0	26.5	21.2	39.6	57.5	73.9	72.5	98.8	76.3	89.5	94.9	63.3	757.0
24	739	32.9	21.7	18.1	21.7	95.5	97.0	99.7	101.8	75.7	75.5	71.6	147.1	860.0
24	740	58.4	40.8	29.7	37.3	100.5	90.3	66.9	72.6	72.3	64.9	124.7	211.1	970.0
24	741	55.1	27.1	23.1	98.6	118.4	110.4	72.2	49.7	69.8	83.6	111.0	73.6	893.0
24	742	30.5	25.2	14.3	19.7	55.1	67.7	70.0	63.9	60.6	91.4	128.8	79.8	707.0
24	743	55.6	24.0	19.8	18.9	66.3	80.3	115.7	108.8	98.2	99.0	78.8	93.9	860.0
24	744	111.5	78.7	41.2	33.1	69.5	84.2	108.5	103.4	92.5	76.7	121.9	190.4	1110.0
24	745	42.8	21.3	15.3	13.4	52.6	92.8	70.4	96.7	99.8	116.1	98.3	91.0	810.0
24	746	54.0	27.0	24.6	40.7	57.2	66.9	94.7	102.7	91.7	78.3	104.8	61.4	805.0
24	747	28.0	20.5	12.5	18.2	46.3	59.7	108.6	126.5	94.5	139.3	130.5	116.8	900.0
24	748	76.7	32.2	20.6	35.8	60.9	56.3	74.2	89.6	73.5	80.7	62.6	58.5	723.0
24	749	32.3	29.2	26.7	62.1	70.5	55.9	69.1	65.9	79.5	121.6	114.6	67.6	797.0
24	750	42.5	22.2	16.2	23.3	46.3	105.6	122.5	103.1	78.6	110.9	114.8	82.4	867.0
24	751	31.6	21.7	19.6	22.4	68.7	58.7	73.7	96.4	88.5	78.9	58.7	99.5	720.0
24	752	66.9	26.2	20.4	28.5	71.5	68.1	83.7	93.5	99.2	129.6	163.5	360.7	1214.0
24	753	162.6	50.4	48.0	130.0	83.4	77.2	83.6	97.0	97.6	98.7	121.8	229.6	1281.0
24	754	163.8	43.4	41.4	38.8	60.9	83.3	93.0	98.7	72.2	70.9	109.7	69.7	946.0
24	755	33.7	28.0	18.1	42.5	86.7	106.8	97.0	59.0	80.7	95.7	110.0	108.0	867.0
24	756	45.4	34.4	24.9	24.7	44.2	56.8	92.0	94.0	92.0	81.4	105.7	89.1	784.0
24	757	30.3	21.7	16.6	20.3	62.1	95.6	112.9	85.1	89.0	92.9	141.5	128.9	897.0

24	758	36.6	27.0	22.8	46.1	62.5	64.9	93.1	99.2	84.0	92.9	116.6	60.7	808.0
24	759	44.8	34.2	23.2	75.5	118.2	106.1	82.3	87.9	77.0	91.9	97.6	107.1	946.0
24	760	48.5	32.1	19.0	27.5	88.7	75.0	94.1	83.0	79.8	111.3	96.7	75.4	831.0
24	761	39.5	26.7	25.2	18.5	72.6	55.2	93.6	73.0	88.0	73.4	96.1	149.1	811.0
24	762	101.7	49.2	33.1	65.9	148.8	85.7	101.8	100.7	87.9	79.5	103.2	57.3	1015.0
24	763	35.3	20.8	18.3	14.9	43.2	40.6	58.7	53.1	82.9	94.5	152.3	115.1	730.0
24	764	45.8	56.0	34.7	52.6	84.6	104.2	96.9	81.8	90.1	87.1	99.8	99.0	934.0
24	765	58.5	49.6	26.5	39.9	66.6	87.0	135.5	112.6	82.8	90.6	90.7	119.1	962.0
24	766	59.5	42.9	34.8	96.0	94.8	86.1	100.2	90.8	87.5	89.5	107.0	87.0	977.0
24	767	36.4	20.1	16.5	16.8	53.6	86.6	82.6	109.9	99.4	83.2	136.6	140.7	884.0
24	768	56.5	23.1	17.6	42.3	68.2	119.0	104.3	84.8	90.2	86.2	101.5	94.1	888.0
24	769	38.1	25.6	21.0	16.5	40.1	61.7	87.6	90.1	71.8	79.4	90.0	98.1	721.0
24	770	69.9	41.4	31.3	50.1	103.7	113.1	110.5	138.3	101.0	74.9	140.9	133.7	1109.0
24	771	73.1	37.6	27.9	54.3	91.8	102.2	94.8	84.3	98.7	81.8	88.3	46.2	881.0
24	772	36.5	27.1	19.9	20.8	89.3	75.1	78.8	99.6	75.4	87.4	84.0	46.9	740.0
24	773	28.2	22.8	14.9	15.0	51.8	111.3	90.0	83.8	88.7	83.8	100.0	72.8	764.0
24	774	37.6	20.7	17.8	20.7	71.3	89.9	54.5	102.5	105.3	76.9	78.4	59.4	735.0
24	775	31.6	37.5	22.8	31.6	73.8	104.4	80.8	94.9	77.5	79.9	98.4	85.5	820.0
24	776	31.6	30.1	20.8	16.1	43.3	81.7	81.8	102.4	86.5	77.3	136.7	137.9	847.0
24	777	58.6	64.3	28.6	51.6	113.8	112.8	125.0	104.8	70.2	85.9	137.2	81.5	1036.0
24	778	39.4	38.8	28.2	31.9	85.8	61.1	95.8	93.8	76.7	127.4	145.6	77.4	902.0
24	779	72.1	42.4	36.1	39.4	65.4	53.2	34.5	69.5	75.9	82.1	85.9	42.8	698.0
24	780	24.2	17.3	8.7	15.4	84.2	85.9	115.8	136.0	96.2	82.9	95.6	144.8	907.0
24	781	60.0	44.3	30.1	22.3	56.9	64.5	54.0	45.2	60.1	80.1	98.1	64.6	679.0
24	782	33.1	20.7	17.5	23.1	52.0	69.5	73.6	89.1	53.9	85.5	178.5	384.1	1083.0
24	783	64.7	30.8	31.1	33.5	73.7	84.9	87.5	106.8	92.9	94.7	124.0	96.4	922.0
24	784	41.2	30.9	19.3	27.1	67.0	84.1	125.0	134.8	91.9	86.5	95.1	105.6	909.0
24	785	48.8	25.8	17.8	21.8	80.0	83.4	51.9	60.3	74.4	120.3	182.1	189.6	956.0
24	786	107.7	49.8	28.6	26.3	41.4	60.7	55.8	81.3	101.8	180.6	82.9	84.7	903.0
24	787	51.4	33.5	19.2	23.5	62.2	73.5	60.3	60.1	99.5	69.6	74.0	35.0	662.0
24	788	30.6	21.5	15.1	30.9	89.3	86.9	94.3	106.2	97.4	81.7	89.4	105.7	849.0
24	789	40.8	35.1	21.5	27.2	121.3	101.5	116.3	111.5	87.6	80.9	105.5	153.7	1003.0
24	790	74.9	33.9	27.3	22.5	77.6	106.1	109.9	109.6	94.1	75.8	138.3	153.2	1023.0
24	791	67.1	26.3	22.2	30.9	93.9	64.3	67.3	86.2	89.9	91.7	85.3	73.4	797.0
24	792	86.6	31.0	20.0	35.7	74.1	60.8	55.7	58.9	67.9	84.0	98.2	78.4	752.0
24	793	37.2	28.6	20.6	58.5	114.6	111.0	128.1	118.1	68.9	97.8	96.5	59.5	942.0
24	794	45.5	31.6	21.6	24.5	86.3	80.1	93.2	119.9	98.1	102.0	149.9	166.9	1020.0
24	795	57.9	24.7	17.7	23.2	42.1	55.8	97.6	116.4	96.9	86.0	94.7	87.7	802.0
24	796	42.2	28.2	20.3	29.0	64.3	92.2	74.6	59.8	86.7	82.0	144.3	70.4	793.0
24	797	69.6	27.3	13.7	17.0	55.5	69.2	102.9	102.0	94.5	118.6	132.5	129.7	934.0
24	798	89.7	35.3	24.2	53.5	81.2	101.5	65.9	78.3	71.0	67.1	96.1	73.5	837.0
24	799	43.6	24.0	16.4	15.7	55.3	81.6	80.0	83.1	90.9	117.8	139.5	137.5	886.0
24	800	69.6	33.3	21.8	18.3	53.5	54.4	84.4	94.0	104.2	152.2	99.9	152.7	937.0

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MAXIMUM VOLUMES FOR PERIOD 8 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	163.8	78.7	54.0	130.0	180.6	119.0	135.5	138.6	107.5	180.6	182.1	384.1	384.1	1009.1	4807.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	24.2	17.3	8.7	13.3	31.1	40.6	34.5	45.2	53.9	64.9	58.7	35.0	8.7	173.2	3246.

STA 24 MONTH 1 MEAN 54.01 VARIANCE 730.73 STAN. DEV. 27.03

STA 24 MONTH 2 MEAN 32.33 VARIANCE 133.80 STAN. DEV. 11.57

STA 24 MONTH 3 MEAN	23.79	VARIANCE	66.73	STAN. DEV.	8.17
STA 24 MONTH 4 MEAN	34.85	VARIANCE	421.07	STAN. DEV.	20.52
STA 24 MONTH 5 MEAN	72.83	VARIANCE	658.26	STAN. DEV.	25.66
STA 24 MONTH 6 MEAN	79.31	VARIANCE	375.14	STAN. DEV.	19.37
STA 24 MONTH 7 MEAN	85.76	VARIANCE	532.93	STAN. DEV.	23.09
STA 24 MONTH 8 MEAN	89.66	VARIANCE	514.23	STAN. DEV.	22.68
STA 24 MONTH 9 MEAN	83.05	VARIANCE	223.56	STAN. DEV.	14.95
STA 24 MONTH 10 MEAN	91.20	VARIANCE	522.72	STAN. DEV.	22.86
STA 24 MONTH 11 MEAN	112.11	VARIANCE	796.06	STAN. DEV.	28.21
STA 24 MONTH 12 MEAN	110.52	VARIANCE	3162.93	STAN. DEV.	56.24

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 9

STA 24 MONTH 1 MEAN	0.005	STD DEVO	0.063
STA 24 MONTH 2 MEAN	0.003	STD DEVO	0.065
STA 24 MONTH 3 MEAN	0.003	STD DEVO	0.067
STA 24 MONTH 4 MEAN	-0.003	STD DEVO	0.066
STA 24 MONTH 5 MEAN	-0.006	STD DEVO	0.063
STA 24 MONTH 6 MEAN	-0.001	STD DEVO	0.069
STA 24 MONTH 7 MEAN	0.000	STD DEVO	0.065
STA 24 MONTH 8 MEAN	-0.002	STD DEVO	0.065
STA 24 MONTH 9 MEAN	0.005	STD DEVO	0.065
STA 24 MONTH 10 MEAN	0.011	STD DEVO	0.055
STA 24 MONTH 11 MEAN	0.002	STD DEVO	0.059
STA 24 MONTH 12 MEAN	-0.009	STD DEVO	0.059

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	801	62.3	31.0	20.5	43.4	99.4	85.7	60.4	66.2	69.4	119.2	160.3	129.8	946.0
24	802	153.7	50.1	43.0	80.6	121.4	89.0	83.1	95.5	91.9	111.0	79.2	47.3	1046.0
24	803	29.6	26.7	18.7	25.1	78.7	102.8	112.9	67.3	82.0	78.8	70.7	90.5	786.0
24	804	39.0	27.3	21.1	41.4	97.1	89.4	100.9	95.2	96.7	165.7	107.0	98.8	979.0
24	805	37.1	25.8	22.6	30.6	78.9	95.2	102.9	106.4	99.2	88.9	184.1	206.7	1079.0
24	806	44.9	38.0	29.1	40.6	66.7	57.3	66.3	84.4	84.8	82.3	114.2	133.0	841.0
24	807	262.3	53.7	35.3	59.3	75.4	98.6	110.9	96.9	66.8	85.6	126.4	144.2	1215.0
24	808	74.5	38.2	23.5	31.4	36.6	75.5	70.6	102.9	74.5	82.6	85.4	189.7	886.0
24	809	33.9	21.8	14.6	17.8	74.5	98.6	108.4	111.1	71.7	81.0	60.4	136.3	831.0
24	810	81.8	31.6	22.8	37.3	60.7	81.7	94.6	104.9	90.5	109.7	85.4	107.6	911.0
24	811	54.5	26.8	17.4	21.6	106.9	102.8	85.8	130.8	94.9	97.1	123.6	136.1	1000.0
24	812	46.0	36.2	32.5	69.1	104.1	108.6	139.4	114.6	101.4	139.8	157.4	42.5	1091.0
24	813	30.8	18.2	14.1	23.6	53.5	98.6	87.5	135.8	104.6	100.1	127.3	95.1	889.0
24	814	126.9	40.5	28.9	61.8	113.3	94.8	83.9	77.7	81.3	67.4	100.2	87.0	964.0
24	815	55.2	28.3	22.8	39.8	62.6	94.2	82.0	74.6	102.5	103.8	115.5	184.0	967.0
24	816	59.7	24.2	14.1	22.3	77.3	84.9	86.7	74.5	72.5	71.0	76.9	97.1	761.0
24	817	41.6	26.0	24.5	28.7	85.3	93.6	90.1	102.6	62.1	87.8	139.3	124.5	907.0
24	818	55.5	42.8	28.9	24.8	61.0	66.6	71.6	58.5	81.2	91.0	114.8	80.5	778.0
24	819	40.1	27.8	22.6	17.9	58.9	70.3	109.1	128.0	99.1	98.8	95.2	132.9	901.0
24	820	96.3	31.3	24.8	52.6	63.1	41.9	37.8	61.1	66.6	83.2	81.8	133.1	774.0
24	821	66.2	46.8	29.9	83.8	103.4	102.3	125.3	132.3	99.8	71.5	117.4	149.4	1127.0
24	822	45.4	39.6	27.9	62.9	102.5	73.8	116.0	93.5	82.2	116.7	84.6	84.1	930.0
24	823	37.5	24.4	19.8	19.1	80.1	78.1	75.4	82.7	63.7	100.3	101.6	73.2	755.0
24	824	42.5	31.6	27.0	21.5	77.3	75.9	96.2	84.8	75.0	95.5	92.3	110.4	830.0
24	825	63.1	28.5	21.0	18.0	44.8	68.5	68.9	88.2	59.6	72.5	107.7	88.0	731.0
24	826	49.2	20.8	22.0	34.3	96.9	90.3	93.9	80.1	79.5	74.4	103.0	181.2	924.0
24	827	43.9	27.2	24.8	53.8	97.5	65.5	96.3	67.7	97.9	76.5	134.2	65.7	852.0
24	828	29.2	25.3	17.8	20.7	70.9	76.2	109.8	100.3	91.3	78.8	128.2	116.6	865.0

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24	829	48.4	35.7	38.2	80.3	86.6	70.3	100.0	115.9	96.4	96.5	83.2	42.3	892.0
24	830	29.6	25.0	17.4	19.1	59.5	44.5	46.7	79.5	87.6	78.1	57.9	76.9	621.0
24	831	38.6	25.5	21.3	23.0	66.5	54.5	70.0	78.9	76.0	76.9	116.0	72.9	720.0
24	832	28.7	19.2	11.4	12.6	33.3	75.6	89.2	109.1	86.0	113.9	116.4	158.7	854.0
24	833	46.9	32.1	21.3	31.8	83.7	63.6	85.6	113.1	81.0	65.8	94.7	43.6	765.0
24	834	35.6	28.6	26.5	30.1	61.7	64.9	78.5	61.9	83.6	98.7	127.7	63.3	763.0
24	835	61.3	41.2	26.5	18.5	52.2	81.1	60.3	63.3	50.8	64.4	76.8	96.7	691.0
24	836	37.8	32.5	23.7	82.6	90.2	87.6	59.3	61.1	79.3	76.0	87.5	79.9	797.0
24	837	40.8	49.6	41.2	28.8	71.7	70.2	73.0	115.2	108.0	113.2	140.6	176.7	1030.0
24	838	61.1	33.4	26.2	33.5	80.3	94.7	53.9	88.2	89.7	96.0	100.4	54.3	811.0
24	839	34.3	27.5	18.9	91.8	89.3	58.1	81.0	58.0	86.2	91.8	124.1	206.1	967.0
24	840	83.6	40.3	27.4	38.8	59.2	83.3	80.8	94.5	77.2	95.9	168.0	92.7	942.0
24	841	38.0	24.7	16.4	22.3	50.5	96.5	100.7	73.8	84.2	111.4	81.8	37.9	738.0
24	842	25.9	20.6	15.3	23.5	57.3	82.7	106.2	120.7	94.6	94.4	204.3	184.6	1031.0
24	843	47.8	24.8	15.4	16.2	58.9	77.5	105.1	97.4	97.1	98.6	142.5	51.8	833.0
24	844	39.7	31.6	24.7	48.5	96.0	102.4	87.1	104.9	88.0	131.1	113.0	150.8	1018.0
24	845	157.5	66.5	48.3	27.7	59.5	83.0	68.8	89.3	96.9	102.6	132.3	74.9	1007.0
24	846	35.0	20.1	15.4	18.8	46.0	94.6	75.3	72.9	80.5	82.4	117.3	111.1	768.0
24	847	39.9	20.1	14.1	33.4	79.1	118.7	105.0	112.9	80.2	73.5	75.6	142.1	894.0
24	848	47.5	27.3	21.3	25.2	87.5	84.8	120.3	90.3	92.3	115.6	91.4	85.9	888.0
24	849	41.1	26.2	19.7	15.8	36.0	34.9	57.0	54.0	77.2	69.5	134.4	130.7	697.0
24	850	53.3	31.8	30.6	58.6	110.5	87.2	97.6	93.7	60.5	64.7	165.3	189.1	1043.0
24	851	136.7	46.9	37.9	37.3	93.1	95.5	58.8	80.1	83.8	141.1	99.7	90.0	1002.0
24	852	67.4	26.5	25.3	24.1	80.8	101.3	92.1	104.2	79.1	75.3	115.7	99.5	891.0
24	853	38.7	23.9	19.0	32.0	91.0	108.6	90.2	120.2	93.4	92.2	103.6	96.1	909.0
24	854	43.4	31.5	23.8	29.4	91.2	96.6	109.0	94.5	80.7	96.0	130.8	149.7	977.0
24	855	67.8	24.9	15.9	17.2	74.7	87.1	86.5	98.4	81.6	78.6	95.7	188.5	918.0
24	856	85.4	40.4	25.4	61.0	120.8	109.1	101.5	85.8	77.1	85.8	105.2	106.0	1002.0
24	857	55.3	28.4	17.4	21.6	54.9	51.8	53.6	98.3	66.0	70.5	92.9	106.8	718.0
24	858	38.0	27.4	17.6	22.3	48.8	77.8	85.1	79.9	75.4	69.5	123.2	220.5	885.0
24	859	53.6	29.8	21.6	18.0	49.0	67.3	101.8	95.5	96.8	100.7	107.1	86.9	829.0
24	860	31.0	17.6	12.1	12.7	35.0	77.8	116.0	141.5	101.1	75.5	161.5	87.0	869.0
24	861	42.5	28.6	19.3	40.1	56.5	62.4	63.6	77.9	63.7	93.8	83.8	102.3	735.0
24	862	77.9	40.7	26.0	23.3	73.6	77.1	72.0	83.2	88.0	99.7	105.8	106.7	875.0
24	863	32.2	35.4	31.3	33.1	51.9	58.8	94.6	106.6	85.6	92.6	109.9	111.0	844.0
24	864	30.2	22.5	16.7	20.1	65.8	58.1	66.4	96.1	103.5	87.1	124.0	77.9	768.0
24	865	41.7	32.0	21.6	28.8	66.1	44.3	80.7	95.9	70.8	95.8	101.6	57.6	739.0
24	866	30.5	25.0	14.4	29.0	42.5	53.8	75.7	66.0	94.9	96.9	122.6	55.5	706.0
24	867	29.7	19.5	16.8	14.7	43.5	53.7	66.7	77.6	89.5	111.7	103.1	97.5	725.0
24	868	42.3	28.2	26.7	21.6	56.2	91.3	93.4	90.6	97.3	83.0	152.0	163.6	946.0
24	869	148.0	83.9	42.0	29.0	64.5	97.8	107.7	104.7	101.0	98.0	71.3	72.4	1020.0
24	870	59.6	26.0	18.7	22.8	57.5	87.6	72.0	52.4	60.8	98.0	122.6	111.1	790.0
24	871	71.1	43.3	27.8	28.5	78.1	77.0	130.9	104.1	90.0	92.7	132.6	61.9	939.0
24	872	32.3	23.3	15.7	27.4	99.6	62.6	46.6	69.3	76.0	120.4	109.0	88.2	770.0
24	873	50.1	27.5	16.0	22.1	61.3	62.4	99.0	90.5	93.1	125.9	131.1	139.7	918.0
24	874	41.2	24.9	20.9	25.8	67.2	76.4	70.3	78.1	71.8	100.9	99.2	72.4	748.0
24	875	50.8	30.3	20.3	23.3	84.2	83.9	85.3	107.0	88.1	96.5	124.3	42.1	835.0
24	876	30.7	32.8	27.0	27.6	87.3	87.8	77.7	65.0	70.3	96.8	98.3	204.0	906.0
24	877	55.9	28.8	23.0	45.4	109.5	95.1	58.6	46.9	57.8	70.7	122.9	223.9	940.0
24	878	99.6	41.8	21.6	24.9	67.1	68.9	86.4	77.3	88.9	68.6	162.2	182.5	990.0
24	879	58.5	31.7	31.8	147.4	98.3	114.0	138.0	136.8	109.0	73.5	95.1	81.6	1117.0
24	880	29.5	20.7	12.3	14.7	42.7	64.9	76.1	89.2	91.4	111.2	169.5	114.7	838.0
24	881	45.7	53.2	39.2	36.4	62.7	62.9	86.8	85.8	61.5	91.3	124.4	186.3	935.0
24	882	135.0	44.6	29.7	25.4	57.9	72.2	61.7	100.0	82.0	87.0	117.9	137.8	952.0

24	883	42.5	32.4	30.3	44.1	70.2	86.0	89.7	123.1	96.6	98.0	115.9	91.1	920.0
24	884	36.6	29.0	17.4	19.9	53.7	47.9	89.4	90.5	89.5	90.4	83.6	130.3	779.0
24	885	61.6	55.6	36.0	23.8	71.9	77.7	95.4	102.8	73.7	87.8	118.0	105.7	912.0
24	886	64.4	29.6	23.4	34.9	53.3	96.0	125.2	116.5	90.8	88.4	166.9	178.2	1066.0
24	887	34.3	25.8	20.7	38.6	121.7	101.7	83.8	76.7	81.7	111.0	119.3	114.6	932.0
24	888	44.3	43.9	31.2	50.4	67.8	95.0	93.3	86.3	88.1	79.4	124.8	91.4	894.0
24	889	36.5	26.0	24.7	108.2	144.4	112.8	114.7	99.5	89.0	85.3	92.8	86.8	1021.0
24	890	40.2	34.8	26.9	26.9	44.4	77.7	112.2	75.6	85.3	67.4	137.4	61.1	789.0
24	891	40.4	30.0	22.4	32.9	62.7	62.3	48.4	54.3	79.2	88.7	95.2	85.6	701.0
24	892	34.6	28.5	21.0	30.5	71.4	79.7	70.3	78.4	67.4	94.9	92.8	104.9	774.0
24	893	33.4	27.2	22.2	16.8	56.7	65.2	93.8	65.4	71.4	108.9	104.5	70.5	735.0
24	894	40.3	28.4	23.8	40.2	78.6	89.6	96.1	87.9	100.7	105.9	100.0	131.0	923.0
24	895	51.0	46.0	30.4	24.2	56.1	88.1	113.1	111.0	99.7	93.5	132.6	102.0	948.0
24	896	111.6	67.6	42.6	43.3	87.5	70.6	61.2	65.6	87.5	90.3	98.6	121.5	949.0
24	897	70.3	45.5	32.0	57.7	74.7	65.0	54.2	74.0	77.6	85.5	95.1	87.6	821.0
24	898	71.0	28.2	15.5	12.3	39.2	54.9	85.0	105.4	86.3	62.0	94.9	67.1	721.0
24	899	33.6	24.3	19.4	31.0	62.7	99.6	105.7	111.2	89.4	87.7	102.0	86.6	854.0
24	900	56.2	43.7	31.3	40.9	90.9	68.6	54.3	63.6	89.3	72.3	103.9	61.5	776.0

1

MAXIMUM VOLUMES FOR PERIOD 9 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	262.3	83.9	48.3	147.4	144.4	118.7	139.4	141.5	109.0	165.7	204.3	223.9	262.3	804.9	4685.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	25.9	17.6	11.4	12.3	33.3	34.9	37.8	46.9	50.8	62.0	57.9	37.9	11.4	173.8	3184.
STA 24 MONTH 1 MEAN	55.73	VARIANCE	1252.77	STAN. DEV.	35.39										
STA 24 MONTH 2 MEAN	32.20	VARIANCE	133.53	STAN. DEV.	11.56										
STA 24 MONTH 3 MEAN	23.68	VARIANCE	62.56	STAN. DEV.	7.91										
STA 24 MONTH 4 MEAN	34.88	VARIANCE	486.35	STAN. DEV.	22.05										
STA 24 MONTH 5 MEAN	72.14	VARIANCE	538.59	STAN. DEV.	23.21										
STA 24 MONTH 6 MEAN	79.27	VARIANCE	379.47	STAN. DEV.	19.48										
STA 24 MONTH 7 MEAN	86.05	VARIANCE	520.04	STAN. DEV.	22.80										
STA 24 MONTH 8 MEAN	89.91	VARIANCE	509.19	STAN. DEV.	22.57										
STA 24 MONTH 9 MEAN	83.20	VARIANCE	226.85	STAN. DEV.	15.06										
STA 24 MONTH 10 MEAN	91.44	VARIANCE	410.15	STAN. DEV.	20.25										
STA 24 MONTH 11 MEAN	112.18	VARIANCE	857.09	STAN. DEV.	29.28										
STA 24 MONTH 12 MEAN	110.26	VARIANCE	2132.20	STAN. DEV.	46.18										

1

GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 10

STA 24 MONTH 1	MEAN-0.004	STD DEVO.068
STA 24 MONTH 2	MEAN-0.003	STD DEVO.063
STA 24 MONTH 3	MEAN 0.000	STD DEVO.066
STA 24 MONTH 4	MEAN 0.001	STD DEVO.065
STA 24 MONTH 5	MEAN 0.002	STD DEVO.068
STA 24 MONTH 6	MEAN 0.003	STD DEVO.062
STA 24 MONTH 7	MEAN 0.011	STD DEVO.068
STA 24 MONTH 8	MEAN 0.009	STD DEVO.066
STA 24 MONTH 9	MEAN 0.010	STD DEVO.052
STA 24 MONTH 10	MEAN-0.005	STD DEVO.061
STA 24 MONTH 11	MEAN-0.008	STD DEVO.064
STA 24 MONTH 12	MEAN 0.001	STD DEVO.064

G-164

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
24	901	29.6	21.9	20.9	39.6	53.4	55.0	85.1	94.1	79.6	83.7	127.0	175.7	867.0
24	902	87.0	32.4	24.3	20.7	50.1	73.5	82.1	61.7	55.9	89.2	120.1	116.7	814.0
24	903	59.5	30.0	22.9	29.2	64.4	59.0	70.7	84.8	86.6	128.0	91.3	54.8	781.0
24	904	51.9	27.1	18.0	15.6	46.6	64.5	102.5	112.5	103.9	93.3	119.8	52.0	808.0
24	905	37.3	39.0	30.4	22.3	70.9	84.6	92.3	124.0	86.6	83.6	105.5	89.0	866.0
24	906	40.7	30.3	25.8	18.8	55.0	64.6	100.2	85.6	87.9	82.2	86.6	71.2	750.0
24	907	32.8	28.9	20.9	71.7	107.2	92.7	96.7	81.5	73.4	68.3	139.1	107.6	921.0
24	908	70.6	38.0	27.5	61.0	90.2	65.1	72.0	69.9	51.1	92.5	163.5	86.7	889.0
24	909	35.9	30.2	31.9	50.7	112.1	64.3	39.9	51.7	74.4	87.6	92.2	57.1	728.0
24	910	40.3	20.2	14.6	18.7	51.5	63.5	58.0	51.2	84.4	102.4	96.6	130.7	732.0
24	911	35.3	29.2	19.3	33.3	73.3	104.4	98.8	110.0	91.1	73.2	108.6	230.0	1005.0
24	912	257.8	53.7	30.3	32.2	75.3	97.5	94.2	100.2	73.1	95.6	156.4	68.1	1134.0
24	913	28.0	21.2	12.4	22.8	81.4	64.2	99.2	116.4	99.2	86.3	106.3	120.9	856.0
24	914	41.2	37.4	29.5	19.8	51.9	84.4	97.6	101.8	76.0	85.7	84.1	50.3	760.0
24	915	30.6	19.7	14.2	15.4	44.2	94.5	122.1	115.1	106.6	114.5	121.6	152.9	953.0
24	916	50.3	25.4	21.4	19.2	43.8	67.8	89.0	77.5	79.0	64.9	84.0	71.6	694.0
24	917	54.5	45.4	37.4	26.6	47.8	66.4	62.4	73.7	98.1	96.2	89.3	102.7	800.0
24	918	33.0	24.0	18.7	15.3	81.9	101.1	83.9	75.5	95.3	95.8	99.4	59.1	782.0
24	919	31.6	31.7	22.4	34.1	54.6	72.7	100.3	101.5	78.1	63.5	113.2	145.6	849.0
24	920	38.5	28.0	21.9	29.4	57.8	78.0	91.5	111.3	102.0	139.9	226.3	169.0	1093.0
24	921	71.4	70.6	49.6	31.5	63.7	76.2	95.1	110.3	91.4	100.3	176.0	203.6	1139.0
24	922	64.4	61.1	34.4	24.8	69.9	83.4	93.4	76.2	66.3	87.0	89.6	71.1	820.0
24	923	47.8	24.7	22.8	33.1	99.7	83.8	42.7	62.3	82.8	88.4	114.5	91.4	794.0
24	924	59.0	32.7	22.3	15.3	43.2	81.6	87.4	98.0	77.8	86.3	103.2	52.6	759.0
24	925	31.4	24.9	18.1	25.8	84.4	98.5	68.3	83.2	84.0	110.8	125.3	63.3	817.0
24	926	39.6	32.1	27.8	20.7	50.2	83.1	93.9	90.2	88.4	95.9	83.8	115.3	821.0
24	927	68.8	31.7	31.2	58.6	109.1	74.3	83.6	78.4	87.0	83.2	115.4	99.7	921.0
24	928	52.5	23.5	18.5	40.2	66.1	86.8	74.5	77.0	95.3	83.8	95.4	88.9	804.0
24	929	43.0	41.1	23.1	49.7	57.5	92.1	65.1	83.7	65.2	78.5	137.0	172.8	910.0
24	930	91.0	40.8	33.0	125.3	90.4	95.9	95.3	95.8	77.1	84.9	81.1	83.9	994.0
24	931	31.1	30.3	17.9	18.4	39.1	59.6	51.1	73.6	84.8	119.2	117.3	89.6	732.0
24	932	135.1	45.0	32.8	37.7	101.4	85.5	70.3	87.3	80.5	82.7	109.7	126.1	993.0
24	933	111.7	31.0	24.7	22.9	68.6	116.6	92.6	83.4	85.3	78.7	122.7	119.3	959.0
24	934	81.4	50.6	41.5	40.9	76.0	90.1	81.2	88.6	84.0	88.0	102.1	73.8	898.0
24	935	28.2	25.9	17.3	22.8	73.8	74.8	111.2	119.8	82.7	109.2	132.3	104.8	903.0
24	936	31.2	24.1	22.3	21.5	111.6	85.5	68.3	84.9	78.9	83.3	106.4	76.6	794.0
24	937	38.6	30.4	18.3	15.4	47.8	78.7	84.5	72.3	76.7	77.4	109.7	151.1	801.0
24	938	79.9	43.4	32.5	61.0	131.6	97.8	136.8	131.4	77.0	112.0	128.2	136.9	1169.0
24	939	61.9	35.7	29.8	40.2	97.5	83.9	74.2	101.8	75.7	75.8	72.5	97.3	847.0
24	940	49.7	29.8	20.5	62.5	75.6	77.9	102.8	86.0	86.9	75.9	73.9	58.1	800.0
24	941	37.8	22.8	14.6	21.7	108.0	77.5	74.1	87.6	78.4	82.6	92.5	83.5	783.0
24	942	29.9	28.3	20.3	36.6	85.1	53.4	113.6	132.6	77.0	71.9	83.9	67.8	801.0
24	943	86.7	30.5	23.6	30.8	98.5	71.5	92.4	82.8	78.2	82.4	101.4	58.1	837.0
24	944	52.1	28.2	17.0	16.8	63.4	72.4	101.5	97.8	76.0	107.1	130.2	109.5	870.0
24	945	157.2	30.3	25.6	57.3	123.9	108.6	88.0	68.3	82.2	108.5	97.5	84.9	1031.0
24	946	79.5	39.6	27.2	47.9	58.5	91.5	89.0	79.9	102.1	123.9	95.7	172.3	1009.0
24	947	89.7	58.6	35.1	28.5	48.4	38.1	82.7	82.6	81.1	76.0	70.0	32.6	724.0
24	948	25.7	16.9	11.0	41.6	79.3	103.9	133.0	122.5	85.2	82.7	137.1	111.1	951.0
24	949	80.9	37.5	22.4	23.8	54.7	53.5	41.9	45.6	72.6	80.3	86.3	71.0	671.0
24	950	30.5	28.4	21.4	19.3	54.7	67.3	88.7	56.5	84.5	144.8	231.0	81.6	908.0
24	951	38.2	41.9	28.0	33.8	75.9	80.3	106.4	108.2	90.8	102.3	108.1	84.6	898.0
24	952	51.3	24.7	19.3	24.6	68.1	108.6	127.1	112.5	87.0	82.4	114.9	101.2	921.0
24	953	37.8	24.0	17.6	38.6	75.8	51.4	61.7	69.2	98.3	154.3	155.5	162.9	948.0

24	954	85.7	31.3	21.2	13.6	42.7	49.7	84.3	114.6	109.7	78.7	103.7	118.9	856.0
24	955	60.0	24.0	17.8	22.5	58.3	56.3	57.1	98.7	57.4	67.5	62.3	79.8	662.0
24	956	35.6	24.5	21.5	42.7	79.5	86.1	103.2	112.5	80.0	77.6	114.7	80.9	861.0
24	957	62.1	26.6	20.2	95.6	115.6	105.6	102.5	96.8	79.1	86.8	140.2	132.8	1065.0
24	958	51.0	35.8	22.4	44.4	115.0	98.1	101.3	105.4	72.8	106.8	137.7	119.4	1009.0
24	959	35.8	30.0	23.3	51.7	60.8	67.7	90.1	99.6	87.7	76.4	94.3	209.3	927.0
24	960	52.5	25.9	22.0	26.9	50.3	54.3	58.2	60.2	78.7	81.7	96.5	79.6	686.0
24	961	48.0	28.4	27.5	57.2	119.5	111.4	103.9	73.3	92.2	83.8	83.8	119.2	946.0
24	962	59.9	29.8	21.4	49.5	76.6	87.5	121.7	122.1	96.2	126.3	146.4	100.7	1037.0
24	963	33.0	23.2	17.5	13.5	39.8	84.0	112.6	115.2	84.9	81.5	103.4	91.3	799.0
24	964	45.2	27.6	21.7	23.8	76.3	66.4	51.1	75.9	73.8	109.2	89.1	172.4	832.0
24	965	43.3	18.7	12.4	19.0	52.7	90.5	93.3	103.0	98.9	110.8	127.6	166.3	936.0
24	966	55.9	29.6	26.6	28.9	88.3	58.2	76.6	69.8	57.0	78.0	92.3	101.9	764.0
24	967	36.2	23.3	15.0	23.4	68.9	73.2	79.0	94.1	97.9	115.7	131.4	129.9	887.0
24	968	51.3	26.4	16.9	20.8	46.2	78.7	92.0	119.6	106.2	89.0	142.6	124.3	914.0
24	969	46.2	25.3	22.3	38.4	74.3	55.6	62.9	64.1	99.4	136.2	123.2	283.5	1030.0
24	970	94.6	70.3	45.2	74.8	90.9	79.1	91.1	102.8	98.2	74.6	74.9	69.8	967.0
24	971	51.2	27.7	20.9	36.5	102.9	101.1	44.6	64.7	69.9	67.0	103.5	88.5	781.0
24	972	44.5	29.9	25.6	43.2	82.4	92.0	82.1	103.8	108.3	95.2	109.3	79.5	895.0
24	973	40.3	34.0	25.2	36.4	90.6	93.2	95.0	113.0	86.1	151.5	155.5	77.6	997.0
24	974	59.7	37.6	27.9	24.0	47.5	62.6	83.5	91.4	81.3	93.1	125.4	400.6	1135.0
24	975	101.7	45.2	33.5	27.1	85.9	97.3	78.2	62.5	82.8	101.5	130.2	152.3	998.0
24	976	63.2	27.9	21.3	11.9	46.9	57.0	99.7	84.0	84.0	76.4	154.2	54.1	780.0
24	977	29.9	20.3	13.8	32.3	93.1	96.9	98.0	76.8	81.3	64.3	131.3	172.3	909.0
24	978	48.5	28.9	23.6	19.7	61.7	82.7	94.9	100.5	97.7	78.1	114.8	126.9	881.0
24	979	40.9	22.8	16.5	64.1	113.3	79.6	131.7	124.8	96.9	106.3	128.2	94.5	1020.0
24	980	61.5	49.8	38.3	50.4	117.4	124.0	87.8	109.2	103.5	135.4	69.1	79.0	1024.0
24	981	27.5	24.5	19.7	19.3	81.5	75.3	134.8	139.2	97.9	109.6	105.9	284.1	1120.0
24	982	75.1	38.4	32.1	54.6	92.5	77.4	67.9	78.1	57.3	80.1	99.4	138.3	889.0
24	983	45.9	32.4	26.5	21.4	76.2	71.1	62.8	106.4	90.9	94.9	149.3	112.3	888.0
24	984	32.9	18.8	13.7	27.1	69.3	77.4	61.9	64.4	63.5	69.5	106.9	94.2	699.0
24	985	40.4	38.4	26.4	47.3	94.5	83.9	96.2	67.4	88.1	114.4	120.7	120.6	936.0
24	986	80.3	37.3	23.2	25.4	56.4	67.5	50.3	71.1	83.6	92.7	96.0	95.9	779.0
24	987	46.4	33.2	19.7	28.5	62.9	101.3	120.9	123.7	95.4	84.3	127.8	198.9	1043.0
24	988	47.6	32.9	28.4	19.8	36.3	36.7	67.6	66.0	82.1	73.9	127.5	142.0	761.0
24	989	90.2	37.5	33.8	39.3	96.0	110.6	117.7	120.9	69.7	93.2	132.5	89.0	1031.0
24	990	68.9	35.8	30.9	42.5	64.3	106.3	74.4	78.8	97.9	77.2	100.6	86.2	864.0
24	991	38.2	29.3	19.1	47.5	76.3	73.4	79.0	63.7	94.0	87.6	92.7	109.1	809.0
24	992	58.3	42.2	24.2	48.3	75.1	92.2	73.5	72.2	89.5	80.5	115.1	145.9	916.0
24	993	44.1	27.8	17.5	17.1	52.8	62.3	85.9	62.2	71.2	87.4	100.7	121.0	749.0
24	994	30.0	38.0	28.8	57.4	91.7	88.1	67.9	75.0	69.3	83.3	147.2	79.7	856.0
24	995	38.7	35.0	30.1	41.9	57.9	90.5	52.7	93.2	68.3	101.5	85.1	58.1	752.0
24	996	43.1	25.7	18.2	32.2	67.4	101.0	85.3	96.5	76.0	100.9	115.9	105.8	868.0
24	997	62.0	71.9	47.4	38.4	62.2	93.3	109.2	115.3	93.1	76.4	70.4	73.0	910.0
24	998	46.5	26.3	18.0	25.4	42.2	47.8	87.8	99.7	78.3	63.2	96.9	94.0	725.0
24	999	41.4	32.0	21.9	30.2	49.8	68.7	76.7	77.4	75.1	92.9	91.0	54.0	711.0
24	1000	28.2	18.5	10.4	12.8	52.1	76.2	101.4	97.6	100.2	100.3	139.4	91.2	826.0

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MAXIMUM VOLUMES FOR PERIOD 10 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	257.8	71.9	49.6	125.3	131.6	124.0	136.8	139.2	109.7	154.3	231.0	400.6	400.6	893.5	4668.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
24	25.7	16.9	10.4	11.9	36.3	36.7	39.9	45.6	51.1	63.2	62.3	32.6	10.4	174.6	3380.
STA 24 MONTH 1 MEAN			54.97	VARIANCE	988.30	STAN. DEV.	31.44								
STA 24 MONTH 2 MEAN			32.37	VARIANCE	125.34	STAN. DEV.	11.20								
STA 24 MONTH 3 MEAN			23.87	VARIANCE	60.74	STAN. DEV.	7.79								
STA 24 MONTH 4 MEAN			34.42	VARIANCE	340.22	STAN. DEV.	18.44								
STA 24 MONTH 5 MEAN			72.67	VARIANCE	566.99	STAN. DEV.	23.81								
STA 24 MONTH 6 MEAN			79.15	VARIANCE	378.27	STAN. DEV.	19.45								
STA 24 MONTH 7 MEAN			85.60	VARIANCE	524.28	STAN. DEV.	22.90								
STA 24 MONTH 8 MEAN			89.60	VARIANCE	520.38	STAN. DEV.	22.81								
STA 24 MONTH 9 MEAN			83.07	VARIANCE	219.50	STAN. DEV.	14.82								
STA 24 MONTH 10 MEAN			91.40	VARIANCE	465.39	STAN. DEV.	21.57								
STA 24 MONTH 11 MEAN			111.98	VARIANCE	942.86	STAN. DEV.	30.71								
STA 24 MONTH 12 MEAN			111.17	VARIANCE	3152.55	STAN. DEV.	56.15								

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**INPUT AND OUTPUT FILES
GATUN DOWNSTREAM
HEC-4 SYNTHETIC FLOWS**

GATUN DOWNSTREAM														
A	MONTHLY FLOWS IN CMS													
A	ESTIMATED BY MWH													
B	1911	1	1	90	1000	100								
C														
H	251941	57.5	57.7	32.0	33.6	72.4	120.5	124.8	174.0	175.7	278.3	205.5	114.9	
H	251942	56.9	52.0	40.0	36.9	74.2	142.6	175.2	176.2	221.4	257.4	199.6	154.1	
H	251943	37.4	43.4	36.3	44.6	115.9	146.7	102.2	112.0	111.0	153.7	220.6	249.6	
H	251944	80.3	31.3	17.6	55.2	138.6	110.9	117.5	174.9	152.5	261.4	186.5	228.8	
H	251945	58.9	31.8	18.4	25.4	81.7	102.6	105.1	107.4	141.5	236.3	257.2	293.6	
H	251946	57.2	22.2	23.3	21.0	63.3	72.9	139.9	102.0	138.9	141.7	115.9	176.9	
H	251947	54.7	30.2	16.3	27.9	69.5	102.9	112.6	134.3	150.7	178.4	145.4	103.8	
H	251948	51.0	24.1	15.2	13.2	67.4	54.9	118.8	115.1	105.0	121.4	220.0	64.5	
H	251949	27.8	14.2	11.1	13.6	65.8	156.2	135.4	147.3	170.0	193.8	338.5	193.6	
H	251950	43.8	32.8	19.9	25.9	94.3	147.1	161.0	167.4	121.6	159.5	293.7	273.7	
H	251951	57.9	59.4	24.6	47.2	101.2	85.9	103.6	132.0	142.6	169.3	188.5	127.2	
H	251952	47.9	26.9	16.5	28.5	70.1	104.0	104.5	103.7	133.0	217.0	138.6	236.3	
H	251953	105.5	48.5	28.0	33.8	109.0	80.3	126.8	111.4	114.0	229.5	236.3	110.3	
H	251954	46.3	30.4	16.6	31.6	120.4	111.9	225.4	185.7	173.7	173.5	281.9	140.6	
H	251955	145.9	38.3	22.7	16.7	67.9	122.4	103.4	168.6	155.4	177.6	285.7	151.9	
H	251956	119.6	39.9	32.3	33.9	126.6	117.3	171.1	105.6	146.7	248.5	206.4	86.1	
H	251957	23.7	13.8	8.3	6.1	59.9	53.6	54.2	90.3	87.1	172.9	172.8	81.1	
H	251958	60.3	53.1	32.0	30.0	82.7	84.9	106.9	121.1	132.4	157.3	118.1	79.5	
H	251959	30.9	17.0	11.4	20.5	55.0	70.8	67.4	78.7	120.3	173.1	185.5	295.5	
H	251960	72.8	23.4	36.5	71.2	122.0	126.9	109.6	111.5	96.2	171.9	202.7	347.6	
H	251961	46.3	22.3	14.5	33.0	46.6	130.7	99.5	120.4	145.5	213.2	196.3	124.1	
H	251962	49.0	23.6	16.1	24.7	125.6	109.5	143.5	164.0	150.5	159.8	179.0	130.2	
H	251963	95.2	33.3	18.8	39.2	110.1	145.2	152.5	218.9	175.8	221.4	324.3	83.4	
H	251964	35.0	15.9	11.3	29.0	111.1	201.7	258.3	232.9	215.7	276.6	325.4	103.6	
H	251965	64.6	30.5	18.5	13.1	78.6	91.8	82.7	124.5	121.3	288.6	428.6	216.1	
H	251966	73.0	26.7	17.1	52.5	110.1	131.7	110.3	139.6	130.7	193.5	316.5	187.5	
H	251967	52.6	30.1	22.2	39.6	109.6	179.3	160.2	152.4	170.7	233.9	232.2	128.5	
H	251968	44.4	34.5	23.0	12.4	75.1	101.2	83.0	132.5	128.3	182.2	171.5	71.9	
H	251969	49.7	23.7	16.6	29.8	66.2	67.2	96.0	136.4	173.8	175.1	203.2	181.5	
H	251970	122.4	40.0	36.9	54.2	139.3	104.0	113.7	154.6	140.0	231.1	234.3	283.1	
H	251971	131.9	47.5	38.8	22.3	114.2	120.8	134.4	173.9	156.0	186.0	217.7	57.0	
H	251972	101.5	36.0	22.8	72.6	71.6	123.9	67.0	72.5	140.0	157.8	127.2	99.7	
H	251973	44.9	30.6	9.9	15.3	70.7	160.3	161.6	145.8	205.5	187.3	312.3	128.9	
H	251974	52.9	31.9	26.0	17.8	51.9	92.6	115.8	108.2	123.8	285.7	238.9	104.3	
H	251975	31.5	24.2	15.6	12.1	61.8	87.4	128.9	194.3	155.7	250.6	322.9	231.7	
H	251976	62.2	31.7	18.4	33.0	64.0	75.3	31.2	52.1	125.9	189.9	160.0	57.5	
H	251977	30.7	17.7	10.2	10.4	54.2	59.1	63.2	152.7	127.8	195.1	167.5	90.9	
H	251978	39.0	25.7	26.3	103.6	105.0	134.6	145.5	184.1	151.6	186.1	226.3	103.4	
H	251979	43.6	24.1	17.8	59.7	82.0	121.7	111.2	148.1	145.5	198.7	166.1	94.7	
H	251980	96.5	43.9	20.8	20.6	92.0	123.4	94.3	131.4	95.9	166.7	176.0	127.9	
H	251981	97.5	48.2	45.5	178.0	224.3	218.8	195.6	173.1	127.8	190.4	317.8	267.5	
H	251982	110.7	51.8	32.2	44.4	71.2	83.7	80.4	72.6	105.5	189.8	123.6	41.1	
H	251983	26.0	15.3	10.5	22.3	72.4	81.5	63.9	89.1	158.8	156.3	155.2	189.6	
H	251984	75.7	40.6	18.1	18.3	86.4	114.2	121.0	227.1	214.8	263.8	263.0	96.5	
H	251985	51.3	32.9	25.2	21.6	74.7	104.7	84.7	103.7	171.4	144.4	140.1	182.3	
H	251986	45.0	26.1	21.8	55.9	56.6	108.9	77.1	88.8	108.9	256.3	171.3	67.0	
H	251987	30.5	26.7	13.1	84.7	131.1	95.5	119.7	143.3	174.7	263.4	202.9	107.6	
H	251988	32.2	22.4	11.3	15.1	73.1	84.7	124.8	178.6	197.2	253.6	184.0	121.2	
H	251989	46.4	39.2	25.3	21.6	56.1	68.4	114.3	149.8	121.4	167.5	227.5	152.0	

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H 251990	69.5	34.6	32.6	31.8	103.7	98.9	109.8	130.2	229.8	271.1	199.4	151.5
H 251991	43.7	29.0	44.5	28.9	114.9	85.1	92.2	86.9	146.6	152.4	190.2	90.9
H 251992	57.9	24.0	13.2	42.5	134.7	139.9	111.7	143.6	201.4	145.5	143.9	103.9
H 251993	64.5	38.7	44.9	67.0	72.2	119.5	121.3	94.4	191.8	187.7	235.6	122.4
H 251994	48.9	25.1	26.8	22.1	89.4	110.3	77.3	95.1	114.6	163.6	211.6	65.0
H 251995	55.5	20.1	15.2	31.1	103.6	144.0	155.6	153.7	135.7	154.3	212.1	137.6
H 251996	238.1	63.7	48.8	33.1	126.5	153.1	153.6	181.5	170.8	189.2	257.7	151.5
H 251997	45.6	29.8	15.1	15.1	65.3	68.4	53.9	46.9	72.9	101.0	115.1	37.8
H 251998	18.5	12.5	9.6	48.0	69.8	80.3	103.1	120.0	119.3	167.1	121.4	192.0
H 251999	63.2	32.9	30.5	37.9	97.3	169.8	118.6	208.3	186.2	166.4	272.3	339.7
H 252000	109.7	36.6	18.4	27.2	77.1	145.7	85.2	121.7	124.6	183.9	136.4	185.1

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GATUN DOWNSTREAM
MONTHLY FLOWS IN CMS
ESTIMATED BY MWH

TYRA	IMNTH	IANAL	MXRCS	NYRG	NYMXG	NPASS	IPCHQ	IPCHS	NSTA	NCOMB	NTNDM	NCSTY	IGNRL	NPROJ	IYRPJ	MTHPJ	LYRPJ
1911		1	90	1000	100	0	0	0	0	0	0	0	0	0	0	0	0

MAXIMUM VOLUMES OF RECORDED FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	238.1	63.7	48.8	178.0	224.3	218.8	258.3	232.9	229.8	288.6	428.6	347.6	428.6	1510.6	7569.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	18.5	12.5	8.3	6.1	46.6	53.6	31.2	46.9	72.9	101.0	115.1	37.8	6.1	165.4	4749.

STA AVERAGE MONTHLY FLOW IS
25 109.69

FREQUENCY STATISTICS

STA	ITEM	1	2	3	4	5	6	7	8	9	10	11	12
25	MEAN	1.757	1.484	1.320	1.480	1.937	2.036	2.045	2.117	2.161	2.288	2.314	2.124
	STD DEV	0.208	0.160	0.191	0.259	0.134	0.134	0.154	0.143	0.102	0.097	0.132	0.219
	SKEW	0.428	-0.230	0.051	0.239	0.457	-0.126	-0.616	-0.730	-0.222	-0.038	0.053	-0.138
	INCRMT	0.64	0.32	0.23	0.36	0.90	1.13	1.16	1.36	1.47	1.97	2.13	1.49
	YEARS	60	60	60	60	60	60	60	60	60	60	60	60

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RAW CORRELATION COEFFICIENTS FOR MONTH 1

STA	25	WITH CURRENT MONTH
25	1.000	WITH PRECEDING MONTH AT ABOVE STATION
25	0.539	

RAW CORRELATION COEFFICIENTS FOR MONTH 2

STA	25	WITH CURRENT MONTH
25	1.000	WITH PRECEDING MONTH AT ABOVE STATION
25	0.741	

RAW CORRELATION COEFFICIENTS FOR MONTH 3

STA	25	WITH CURRENT MONTH
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25 1.000
WITH PRECEDING MONTH AT ABOVE STATION
25 0.766

RAW CORRELATION COEFFICIENTS FOR MONTH 4

STA 25
WITH CURRENT MONTH
25 1.000
WITH PRECEDING MONTH AT ABOVE STATION
25 0.460

RAW CORRELATION COEFFICIENTS FOR MONTH 5

STA 25
WITH CURRENT MONTH
25 1.000
WITH PRECEDING MONTH AT ABOVE STATION
25 0.546

RAW CORRELATION COEFFICIENTS FOR MONTH 6

STA 25
WITH CURRENT MONTH
25 1.000
WITH PRECEDING MONTH AT ABOVE STATION
25 0.519

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RAW CORRELATION COEFFICIENTS FOR MONTH 7

STA 25
WITH CURRENT MONTH
25 1.000
WITH PRECEDING MONTH AT ABOVE STATION
25 0.604

RAW CORRELATION COEFFICIENTS FOR MONTH 8

STA 25
WITH CURRENT MONTH
25 1.000
WITH PRECEDING MONTH AT ABOVE STATION
25 0.712

RAW CORRELATION COEFFICIENTS FOR MONTH 9

STA 25
WITH CURRENT MONTH

25 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 25 0.599

RAW CORRELATION COEFFICIENTS FOR MONTH 10

STA 25
 WITH CURRENT MONTH
 25 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 25 0.418

RAW CORRELATION COEFFICIENTS FOR MONTH 11

STA 25
 WITH CURRENT MONTH
 25 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 25 0.422

RAW CORRELATION COEFFICIENTS FOR MONTH 12

STA 25
 WITH CURRENT MONTH
 25 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 25 0.333

¹
 RECORDED AND RECONSTITUTED FLOWS

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	1911	55.09E	31.21E	20.80E	29.20E	85.74E	109.55E	109.15E	129.85E	142.57E	188.42E	197.90E	140.86E	1241
25	1912	55.68E	30.85E	20.63E	29.99E	82.92E	108.17E	113.38E	133.37E	144.65E	190.46E	201.34E	135.75E	1247
25	1913	56.58E	30.73E	20.05E	30.16E	86.82E	111.38E	113.61E	135.88E	146.13E	192.89E	209.27E	135.67E	1270
25	1914	54.51E	30.93E	21.15E	29.20E	84.68E	108.19E	112.61E	135.25E	146.74E	194.37E	203.42E	132.86E	1254
25	1915	54.29E	30.06E	20.00E	30.23E	88.60E	110.83E	117.13E	137.43E	146.79E	192.99E	202.32E	133.96E	1264
25	1916	51.73E	29.79E	20.17E	28.47E	83.53E	108.39E	109.03E	131.31E	139.60E	187.38E	200.24E	130.43E	1219
25	1917	54.26E	30.65E	21.01E	29.39E	85.78E	112.68E	117.57E	138.87E	146.06E	193.22E	200.11E	131.16E	1261
25	1918	53.98E	30.07E	20.54E	20.20E	83.54E	104.50E	110.01E	131.79E	142.79E	192.99E	206.76E	138.18E	1247
25	1919	54.92E	29.60E	19.26E	27.63E	82.19E	105.58E	110.15E	135.16E	147.55E	198.94E	213.17E	133.55E	1259
25	1920	56.00E	31.49E	21.93E	30.64E	81.81E	106.61E	111.23E	132.32E	141.67E	191.29E	205.87E	132.32E	1243
25	1921	55.10E	30.94E	20.33E	28.64E	82.71E	105.89E	113.07E	134.89E	147.80E	192.81E	205.25E	138.62E	1257
25	1922	55.69E	30.46E	20.34E	28.67E	81.66E	109.98E	114.92E	134.41E	145.20E	190.67E	203.17E	129.07E	1244
25	1923	53.65E	30.60E	21.11E	30.84E	85.64E	107.98E	114.38E	132.50E	144.61E	190.68E	203.46E	141.40E	1258
25	1924	56.25E	30.91E	21.20E	31.51E	83.32E	103.04E	107.98E	130.80E	142.64E	193.74E	210.72E	131.22E	1244
25	1925	52.50E	29.34E	19.80E	29.48E	82.93E	109.39E	115.63E	136.67E	144.84E	189.73E	199.61E	133.01E	1243
25	1926	55.28E	30.82E	20.46E	29.96E	84.05E	110.56E	115.63E	133.76E	146.06E	193.27E	202.70E	131.35E	1254
25	1927	53.62E	29.94E	20.53E	29.03E	85.15E	109.84E	111.95E	131.07E	143.87E	195.09E	202.84E	130.31E	1244
25	1928	56.23E	31.76E	21.49E	30.21E	86.84E	109.70E	115.16E	133.67E	142.68E	193.94E	207.04E	137.50E	1267
25	1929	56.73E	31.00E	20.98E	28.17E	81.94E	110.96E	115.46E	135.80E	146.89E	194.06E	202.08E	126.91E	1251
25	1930	53.76E	30.45E	20.12E	29.43E	84.74E	107.16E	110.87E	133.26E	147.11E	194.86E	202.12E	141.46E	1254

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25	1931	56.08E	31.16E	20.85E	30.74E	85.97E	111.34E	113.58E	130.79E	142.42E	190.97E	200.16E	123.89E	1238
25	1932	52.85E	30.05E	20.11E	29.37E	84.40E	109.32E	110.55E	134.45E	146.38E	193.68E	196.61E	134.49E	1241
25	1933	54.67E	31.22E	20.59E	29.12E	82.93E	107.23E	108.69E	131.46E	143.12E	191.39E	208.88E	132.57E	1242
25	1934	54.19E	30.69E	19.67E	28.33E	84.03E	109.29E	111.83E	136.17E	147.56E	196.98E	209.89E	137.37E	1266
25	1935	55.12E	30.74E	21.05E	30.40E	85.24E	106.86E	113.86E	134.70E	147.80E	190.42E	192.67E	133.04E	1242
25	1936	54.97E	31.39E	21.58E	28.35E	81.21E	102.84E	111.24E	132.55E	144.60E	194.10E	198.35E	128.08E	1229
25	1937	53.33E	30.25E	20.22E	28.10E	83.24E	105.46E	110.37E	128.93E	143.00E	188.50E	199.98E	131.09E	1221
25	1938	52.55E	29.55E	20.21E	29.09E	84.06E	105.61E	109.81E	131.92E	143.35E	192.69E	199.43E	133.01E	1232
25	1939	53.12E	30.05E	19.99E	27.83E	83.39E	105.84E	113.62E	136.90E	144.47E	192.36E	200.92E	133.78E	1242
25	1940	54.79E	31.12E	20.54E	28.95E	82.98E	105.74E	110.25E	129.48E	138.03E	185.86E	197.59E	129.66E	1216
25	1941	57.50	57.70	32.00	33.60	72.40	120.50	124.80	174.00	175.70	278.30	205.50	114.90	1448
25	1942	56.90	52.00	40.00	36.90	74.20	142.60	175.20	176.20	221.40	257.40	199.60	154.10	1586
25	1943	37.40	43.40	36.30	44.60	115.90	146.70	102.20	112.00	111.00	153.70	220.60	249.60	1374
25	1944	80.30	31.30	17.60	55.20	138.60	110.90	117.50	174.90	152.50	261.40	186.50	228.80	1554
25	1945	58.90	31.80	18.40	25.40	81.70	102.60	105.10	107.40	141.50	236.30	257.20	293.60	1459
25	1946	57.20	22.20	23.30	21.00	63.30	72.90	139.90	102.00	138.90	141.70	115.90	176.90	1075
25	1947	54.70	30.20	16.30	27.90	69.50	102.90	112.60	134.30	150.70	178.40	145.40	103.80	1126
25	1948	51.00	24.10	15.20	13.20	67.40	54.90	118.80	115.10	105.00	121.40	220.00	64.50	970
25	1949	27.80	14.20	11.10	13.60	65.80	156.20	135.40	147.30	170.00	193.80	338.50	193.60	1468
25	1950	43.80	32.80	19.90	25.90	94.30	147.10	161.00	167.40	121.60	159.50	293.70	273.70	1541
25	1951	57.90	59.40	24.60	47.20	101.20	85.90	103.60	132.00	142.60	169.30	188.50	127.20	1239
25	1952	47.90	26.90	16.50	28.50	70.10	104.00	104.50	103.70	133.00	217.00	138.60	236.30	1227
25	1953	105.50	48.50	28.00	33.80	109.00	80.30	126.80	111.40	114.00	229.50	236.30	110.30	1333
25	1954	46.30	30.40	16.60	31.60	120.40	111.90	225.40	185.70	173.70	173.50	281.90	140.60	1538
25	1955	145.90	38.30	22.70	16.70	67.90	122.40	103.40	168.60	155.40	177.60	285.70	151.90	1457
25	1956	119.60	39.90	32.30	33.90	126.60	117.30	171.10	105.60	146.70	248.50	206.40	86.10	1434
25	1957	23.70	13.80	8.30	6.10	59.90	53.60	54.20	90.30	87.10	172.90	172.80	81.10	824
25	1958	60.30	53.10	32.00	30.00	82.70	84.90	106.90	121.10	132.40	157.30	118.10	79.50	1058
25	1959	30.90	17.00	11.40	20.50	55.00	70.80	67.40	78.70	120.30	173.10	185.50	295.50	1126
25	1960	72.80	23.40	36.50	71.20	122.00	126.90	109.60	111.50	96.20	171.90	202.70	347.60	1492
25	1961	46.30	22.30	14.50	33.00	46.60	130.70	99.50	120.40	145.50	213.20	196.30	124.10	1190
25	1962	49.00	23.60	16.10	24.70	125.60	109.50	143.50	164.00	150.50	159.80	179.00	130.20	1276
25	1963	95.20	33.30	18.80	39.20	110.10	145.20	152.50	218.90	175.80	221.40	324.30	83.40	1616
25	1964	35.00	15.90	11.30	29.00	111.10	201.70	258.30	232.90	215.70	276.60	325.40	103.60	1817
25	1965	64.60	30.50	18.50	13.10	78.60	91.80	82.70	124.50	121.30	288.60	428.60	216.10	1561
25	1966	73.00	26.70	17.10	52.50	110.10	131.70	110.30	139.60	130.70	193.50	316.50	187.50	1492
25	1967	52.60	30.10	22.20	39.60	109.60	179.30	160.20	152.40	170.70	233.90	232.20	128.50	1512
25	1968	44.40	34.50	23.00	12.40	75.10	101.20	83.00	132.50	128.30	182.20	171.50	71.90	1060
25	1969	49.70	23.70	16.60	29.80	66.20	67.20	96.00	136.40	173.80	175.10	203.20	181.50	1219
25	1970	122.40	40.00	36.90	54.20	139.30	104.00	113.70	154.60	140.00	231.10	234.30	283.10	1653
25	1971	131.90	47.50	38.80	22.30	114.20	120.80	134.40	173.90	156.00	186.00	217.70	57.00	1400
25	1972	101.50	36.00	22.80	72.60	71.60	123.90	67.00	72.50	140.00	157.80	127.20	99.70	1094
25	1973	44.90	30.60	9.90	15.30	70.70	160.30	161.60	145.80	205.50	187.30	312.30	128.90	1474
25	1974	52.90	31.90	26.00	17.80	51.90	92.60	115.80	108.20	123.80	285.70	238.90	104.30	1251
25	1975	31.50	24.20	15.60	12.10	61.80	87.40	128.90	194.30	155.70	250.60	322.90	231.70	1517
25	1976	62.20	31.70	18.40	33.00	64.00	75.30	31.20	52.10	125.90	189.90	160.00	57.50	900
25	1977	30.70	17.70	10.20	10.40	54.20	59.10	63.20	152.70	127.80	195.10	167.50	90.90	980
25	1978	39.00	25.70	26.30	103.60	105.00	134.60	145.50	184.10	151.60	186.10	226.30	103.40	1431
25	1979	43.60	24.10	17.80	59.70	82.00	121.70	111.20	148.10	145.50	198.70	166.10	94.70	1214
25	1980	96.50	43.90	20.80	20.60	92.00	123.40	94.30	131.40	95.90	166.70	176.00	127.90	1189
25	1981	97.50	48.20	45.50	178.00	224.30	218.80	195.60	173.10	127.80	190.40	317.80	267.50	2086
25	1982	110.70	51.80	32.20	44.40	71.20	83.70	80.40	72.60	105.50	189.80	123.60	41.10	1007
25	1983	26.00	15.30	10.50	22.30	72.40	81.50	63.90	89.10	158.80	156.30	155.20	189.60	1039
25	1984	75.70	40.60	18.10	18.30	86.40	114.20	121.00	227.10	214.80	263.80	263.00	96.50	1539

25	1985	51.30	32.90	25.20	21.60	74.70	104.70	84.70	103.70	171.40	144.40	140.10	182.30	1137
25	1986	45.00	26.10	21.80	55.90	56.60	108.90	77.10	88.80	108.90	256.30	171.30	67.00	1084
25	1987	30.50	26.70	13.10	84.70	131.10	95.50	119.70	143.30	174.70	263.40	202.90	107.60	1394
25	1988	32.20	22.40	11.30	15.10	73.10	84.70	124.80	178.60	197.20	253.60	184.00	121.20	1298
25	1989	46.40	39.20	25.30	21.60	56.10	68.40	114.30	149.80	121.40	167.50	227.50	152.00	1188
25	1990	69.50	34.60	32.60	31.80	103.70	98.90	109.80	130.20	229.80	271.10	199.40	151.50	1465
25	1991	43.70	29.00	44.50	28.90	114.90	85.10	92.20	86.90	146.60	152.40	190.20	90.90	1105
25	1992	57.90	24.00	13.20	42.50	134.70	139.90	111.70	143.60	201.40	145.50	143.90	103.90	1263
25	1993	64.50	38.70	44.90	67.00	72.20	119.50	121.30	94.40	191.80	187.70	235.60	122.40	1360
25	1994	48.90	25.10	26.80	22.10	89.40	110.30	77.30	95.10	114.60	163.60	211.60	65.00	1050
25	1995	55.50	20.10	15.20	31.10	103.60	144.00	155.60	153.70	135.70	154.30	212.10	137.60	1319
25	1996	238.10	63.70	48.80	33.10	126.50	153.10	153.60	181.50	170.80	189.20	257.70	151.50	1770
25	1997	45.60	29.80	15.10	15.10	.65.30	68.40	53.90	46.90	72.90	101.00	115.10	37.80	667
25	1998	18.50	12.50	9.60	48.00	69.80	80.30	103.10	120.00	119.30	167.10	121.40	192.00	1060
25	1999	63.20	32.90	30.50	37.90	97.30	169.80	118.60	208.30	186.20	166.40	272.30	339.70	1723
25	2000	109.70	36.60	18.40	27.20	, 77.10	145.70	85.20	121.70	124.60	183.90	136.40	185.10	1252

1

ADJUSTED FREQUENCY STATISTICS

STA	ITEM	1	2	3	4	5	6	7	8	9	10	11	12
25	MEAN	1.752	1.486	1.319	1.478	1.934	2.036	2.048	2.121	2.162	2.288	2.313	2.126
	STD DEV	0.170	0.131	0.155	0.211	0.109	0.109	0.126	0.117	0.083	0.079	0.107	0.179
	SKEW	0.610	-0.322	0.076	0.322	0.627	-0.171	-0.830	-0.995	-0.314	-0.049	0.087	-0.201
	INCRMT	0.64	0.32	0.23	0.36	0.90	1.13	1.16	1.36	1.47	1.97	2.13	1.49

1

CONSISTENT CORRELATION MATRIX FOR MONTH 1

STA	25	WITH CURRENT MONTH
25	1.000	WITH PRECEDING MONTH AT ABOVE STATION
25	0.539	

CONSISTENT CORRELATION MATRIX FOR MONTH 2

STA	25	WITH CURRENT MONTH
25	1.000	WITH PRECEDING MONTH AT ABOVE STATION
25	0.741	

CONSISTENT CORRELATION MATRIX FOR MONTH 3

STA	25	WITH CURRENT MONTH
25	1.000	WITH PRECEDING MONTH AT ABOVE STATION
25	0.766	

G-175

CONSISTENT CORRELATION MATRIX FOR MONTH 4

STA 25 WITH CURRENT MONTH
25 1.000 WITH PRECEDING MONTH AT ABOVE STATION
25 0.460

CONSISTENT CORRELATION MATRIX FOR MONTH 5

STA 25 WITH CURRENT MONTH
25 1.000 WITH PRECEDING MONTH AT ABOVE STATION
25 0.546

CONSISTENT CORRELATION MATRIX FOR MONTH 6

STA 25 WITH CURRENT MONTH
25 1.000 WITH PRECEDING MONTH AT ABOVE STATION
25 0.519

G-176

CONSISTENT CORRELATION MATRIX FOR MONTH 7

STA 25 WITH CURRENT MONTH
25 1.000 WITH PRECEDING MONTH AT ABOVE STATION
25 0.604

CONSISTENT CORRELATION MATRIX FOR MONTH 8

STA 25 WITH CURRENT MONTH
25 1.000 WITH PRECEDING MONTH AT ABOVE STATION
25 0.713

CONSISTENT CORRELATION MATRIX FOR MONTH 9

STA 25 WITH CURRENT MONTH
25 1.000 WITH PRECEDING MONTH AT ABOVE STATION
25 0.599

CONSISTENT CORRELATION MATRIX FOR MONTH 10

STA	25	
		WITH CURRENT MONTH
25	1.000	
		WITH PRECEDING MONTH AT ABOVE STATION
25	0.419	

CONSISTENT CORRELATION MATRIX FOR MONTH 11

STA	25	
		WITH CURRENT MONTH
25	1.000	
		WITH PRECEDING MONTH AT ABOVE STATION
25	0.422	

CONSISTENT CORRELATION MATRIX FOR MONTH 12

STA	25	
		WITH CURRENT MONTH
25	1.000	
		WITH PRECEDING MONTH AT ABOVE STATION
25	0.332	

G-177

1
MAXIMUM VOLUMES FOR PERIOD 1 OF 90 YEARS OF RECORDED AND RECONSTITUTED FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	238.1	63.7	48.8	178.0	224.3	218.8	258.3	232.9	229.8	288.6	428.6	347.6	428.6	1510.6	7569.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	18.5	12.5	8.3	6.1	46.6	53.6	31.2	46.9	72.9	101.0	115.1	37.8	6.1	165.4	4749.
STA 25 MONTH 1 MEAN	59.57	VARIANCE	918.84	STAN. DEV.	30.31										
STA 25 MONTH 2 MEAN	31.29	VARIANCE	103.74	STAN. DEV.	10.19										
STA 25 MONTH 3 MEAN	21.79	VARIANCE	75.47	STAN. DEV.	8.69										
STA 25 MONTH 4 MEAN	33.47	VARIANCE	495.41	STAN. DEV.	22.26										
STA 25 MONTH 5 MEAN	87.14	VARIANCE	720.11	STAN. DEV.	26.83										
STA 25 MONTH 6 MEAN	109.40	VARIANCE	934.40	STAN. DEV.	30.57										
STA 25 MONTH 7 MEAN	114.11	VARIANCE	1214.46	STAN. DEV.	34.85										
STA 25 MONTH 8 MEAN	133.90	VARIANCE	1348.23	STAN. DEV.	36.72										
STA 25 MONTH 9 MEAN	145.07	VARIANCE	1028.09	STAN. DEV.	32.06										
STA 25 MONTH 10 MEAN	193.38	VARIANCE	1742.39	STAN. DEV.	41.74										
STA 25 MONTH 11 MEAN	208.38	VARIANCE	3394.44	STAN. DEV.	58.26										
STA 25 MONTH 12 MEAN	141.50	VARIANCE	3993.22	STAN. DEV.	63.19										

1
GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 1

STA 25 MONTH 1	MEAN 0.000	STD DEVO 0.062
STA 25 MONTH 2	MEAN 0.004	STD DEVO 0.059
STA 25 MONTH 3	MEAN 0.005	STD DEVO 0.053
STA 25 MONTH 4	MEAN 0.004	STD DEVO 0.056

STA	25	MONTH	5	MEAN-0.007	STD DEVO.062
STA	25	MONTH	6	MEAN-0.001	STD DEVO.070
STA	25	MONTH	7	MEAN 0.004	STD DEVO.066
STA	25	MONTH	8	MEAN 0.005	STD DEVO.068
STA	25	MONTH	9	MEAN-0.007	STD DEVO.066
STA	25	MONTH	10	MEAN-0.008	STD DEVO.066
STA	25	MONTH	11	MEAN 0.002	STD DEVO.064
STA	25	MONTH	12	MEAN 0.004	STD DEVO.064

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	1	81.5	41.2	27.2	22.1	46.1	42.2	62.0	72.0	116.4	153.5	249.7	161.3	1073.0
25	2	34.9	24.3	22.1	15.3	51.7	62.8	71.3	102.6	137.3	176.2	209.8	191.4	1099.0
25	3	105.1	44.8	32.1	140.7	154.7	119.9	94.6	86.1	105.0	190.1	201.4	193.7	1469.0
25	4	57.4	39.6	28.4	56.9	66.7	111.5	131.5	153.7	178.6	226.9	280.4	122.1	1454.0
25	5	71.1	35.8	37.0	36.8	109.1	178.1	174.8	198.1	153.4	179.5	210.2	89.8	1473.0
25	6	55.8	40.2	30.3	49.7	78.1	97.3	63.6	102.6	123.0	155.6	253.0	99.7	1150.0
25	7	38.2	24.4	16.0	29.0	85.8	99.7	57.0	82.2	150.0	204.6	375.3	163.6	1326.0
25	8	76.8	31.0	16.7	13.6	87.1	104.4	96.9	125.3	137.9	229.5	220.8	252.8	1394.0
25	9	45.0	32.1	28.0	21.2	74.0	102.7	98.9	120.7	108.2	131.2	101.9	82.6	947.0
25	10	31.5	21.4	10.8	33.4	93.9	117.9	119.3	173.0	189.1	243.0	220.9	158.3	1411.0
25	11	53.2	18.9	9.2	48.9	122.7	167.7	150.3	182.0	165.9	229.7	255.3	68.3	1472.0
25	12	47.0	29.2	32.9	26.0	78.0	135.5	97.4	156.1	143.5	224.9	288.9	139.0	1398.0
25	13	69.2	30.0	17.1	31.1	82.9	99.4	87.0	121.3	153.6	228.6	318.1	128.7	1367.0
25	14	107.7	44.3	31.1	31.7	83.9	109.3	123.6	143.0	150.2	232.4	263.3	194.8	1515.0
25	15	50.8	27.0	21.5	40.2	107.3	133.7	87.3	85.1	107.6	219.4	233.9	131.3	1245.0
25	16	63.6	30.8	18.5	21.7	110.3	138.9	136.8	134.0	176.3	245.8	308.1	157.2	1543.0
25	17	42.5	23.2	16.7	23.5	81.4	120.1	105.4	93.2	122.2	168.7	131.9	70.2	999.0
25	18	80.2	26.3	14.8	19.4	79.8	94.0	103.3	99.1	126.4	154.0	191.3	127.2	1114.0
25	19	42.7	23.2	11.8	29.7	124.8	113.2	107.9	123.4	115.3	163.0	169.4	185.3	1209.0
25	20	56.5	39.4	29.0	31.3	79.0	82.8	36.3	74.3	87.2	137.5	204.3	239.9	1095.0
25	21	230.0	59.6	30.9	93.5	92.9	116.3	118.3	119.2	162.9	159.7	148.3	83.4	1414.0
25	22	45.6	19.6	18.0	15.3	75.1	136.0	139.3	138.4	131.6	206.9	195.6	99.1	1221.0
25	23	48.7	32.0	24.9	28.1	85.4	83.9	137.7	176.3	163.9	158.1	144.0	162.4	1245.0
25	24	77.6	35.4	26.1	32.2	89.5	78.6	80.7	106.3	125.5	199.2	150.2	94.3	1094.0
25	25	70.2	50.4	30.1	46.7	79.5	110.8	128.9	129.8	146.8	187.6	117.2	131.1	1230.0
25	26	65.8	26.1	22.6	24.9	63.3	82.1	99.5	77.5	139.3	130.8	129.4	111.2	971.0
25	27	34.9	31.7	22.3	35.9	64.7	81.8	60.3	121.9	108.8	160.7	143.7	97.8	966.0
25	28	46.5	32.8	28.5	27.6	81.7	105.8	109.0	163.1	138.4	179.5	243.3	146.5	1304.0
25	29	50.8	38.3	21.8	60.0	121.8	177.6	187.6	182.2	149.1	185.2	261.2	186.9	1623.0
25	30	64.1	44.2	30.6	14.5	66.0	125.7	93.7	110.4	130.2	175.0	224.5	94.6	1174.0
25	31	27.4	13.1	13.9	26.8	83.3	134.2	147.2	148.1	144.8	209.5	193.1	317.6	1458.0
25	32	57.9	33.4	23.5	44.6	69.8	90.6	90.5	96.6	142.1	244.9	159.7	57.2	1113.0
25	33	42.2	24.6	25.9	28.5	77.5	117.8	104.8	84.3	122.9	181.4	155.3	176.7	1141.0
25	34	51.4	35.3	33.4	48.0	108.2	104.9	93.0	134.7	144.4	195.1	192.5	95.4	1234.0
25	35	44.2	22.4	20.6	22.1	68.1	118.0	116.3	117.3	131.7	225.9	218.3	128.0	1232.0
25	36	79.7	37.5	28.5	43.1	59.7	88.9	138.8	166.7	154.6	232.9	233.1	108.8	1374.0
25	37	33.3	18.4	16.7	19.6	110.7	113.4	101.9	133.2	167.9	242.6	249.7	67.4	1275.0
25	38	26.0	11.8	8.2	23.4	116.3	142.8	136.9	105.3	127.3	187.6	168.8	134.6	1189.0
25	39	41.0	29.8	12.9	55.5	125.2	124.9	119.1	177.7	224.7	208.4	323.2	322.2	1764.0
25	40	132.4	61.6	27.5	28.1	76.6	78.3	68.5	63.7	96.3	151.9	165.2	113.1	1063.0
25	41	55.8	36.0	30.8	83.0	104.5	117.2	171.8	190.2	169.4	179.7	154.4	138.2	1431.0
25	42	48.9	18.9	17.2	32.3	115.6	164.6	144.8	152.6	138.4	173.5	177.9	79.0	1264.0
25	43	76.4	33.9	23.7	36.2	102.1	105.1	124.9	173.0	177.2	189.0	214.4	135.2	1390.0
25	44	124.1	49.0	36.7	43.2	85.8	99.3	117.9	99.4	120.0	170.0	125.8	154.8	1226.0

25	45	55.3	34.3	23.6	17.8	88.1	123.3	165.2	173.8	138.7	206.5	198.6	159.0	1384.0
25	46	68.4	27.2	20.6	33.1	86.4	132.5	111.6	139.9	158.2	156.5	245.6	261.8	1443.0
25	47	78.4	37.5	24.9	77.4	134.8	91.4	101.0	132.6	164.9	265.9	285.2	116.2	1510.0
25	48	39.2	25.0	23.2	32.9	89.7	108.1	153.7	166.9	178.0	179.2	241.0	139.4	1376.0
25	49	45.3	30.1	17.3	35.2	80.6	96.2	101.0	157.7	212.7	266.3	329.0	201.5	1572.0
25	50	52.8	31.7	20.2	20.6	73.6	100.4	132.4	155.0	146.8	142.0	188.8	214.5	1280.0
25	51	35.4	24.9	10.7	35.8	66.1	106.5	120.2	137.4	156.0	178.3	152.4	58.5	1080.0
25	52	31.3	22.1	16.4	18.9	71.3	88.0	110.2	127.4	149.8	195.9	198.5	93.2	1122.0
25	53	44.0	20.5	18.3	18.7	78.3	83.9	103.5	137.9	115.6	188.1	169.6	162.6	1142.0
25	54	32.7	18.4	18.8	22.6	67.1	102.3	110.6	146.8	167.9	203.5	228.2	152.2	1272.0
25	55	47.1	40.0	29.7	27.2	95.4	115.7	155.2	160.6	138.7	172.5	226.4	214.4	1422.0
25	56	74.7	44.9	30.0	51.8	92.3	168.5	180.2	189.7	173.9	217.3	173.7	78.5	1476.0
25	57	36.2	27.9	19.4	22.1	86.9	132.6	150.9	165.1	181.5	187.3	154.1	66.0	1230.0
25	58	43.8	25.4	18.0	20.3	73.2	135.4	103.1	74.7	75.8	148.9	145.8	141.6	1006.0
25	59	81.8	37.0	11.9	20.5	65.4	88.3	91.5	125.4	153.0	179.8	266.6	177.7	1298.0
25	60	76.1	36.9	24.5	27.4	77.2	125.5	152.6	167.1	168.6	222.7	169.1	67.1	1315.0
25	61	36.0	29.2	14.1	23.0	63.7	72.7	76.3	144.8	173.8	159.6	141.8	144.3	1080.0
25	62	63.3	30.9	18.8	36.2	125.3	142.6	113.2	136.4	128.1	163.0	187.6	130.7	1276.0
25	63	32.3	15.3	12.8	24.6	88.3	119.5	106.8	132.4	148.2	187.6	153.3	105.8	1127.0
25	64	54.9	33.0	32.4	20.2	61.7	119.1	101.3	104.3	105.9	162.4	171.0	206.3	1171.0
25	65	94.9	50.4	31.5	41.2	65.7	100.3	148.7	172.7	142.6	216.4	225.7	159.9	1450.0
25	66	144.4	42.8	25.4	29.1	82.0	100.0	116.1	155.4	128.5	183.1	172.3	197.6	1376.0
25	67	48.5	31.2	17.3	15.6	66.1	79.1	110.6	126.2	188.8	239.8	233.7	164.3	1322.0
25	68	42.8	23.2	9.9	34.4	89.0	133.6	132.9	150.9	183.7	218.5	162.1	105.4	1286.0
25	69	39.2	16.1	14.5	50.1	83.3	91.5	118.6	183.4	190.3	265.5	168.5	47.1	1267.0
25	70	32.1	22.0	15.1	16.0	59.7	97.0	57.7	87.9	119.8	169.4	166.6	78.5	923.0
25	71	29.6	24.0	18.7	18.4	91.5	81.4	107.3	109.3	150.7	200.3	281.1	167.2	1278.0
25	72	82.2	38.9	17.1	26.8	143.0	192.4	149.6	145.0	148.1	204.4	255.0	155.6	1558.0
25	73	65.9	27.9	21.4	58.1	76.2	70.4	76.7	66.3	128.7	227.5	169.7	192.6	1182.0
25	74	109.4	48.3	27.9	30.5	98.8	98.8	136.5	164.6	131.8	172.5	220.7	176.4	1416.0
25	75	69.7	29.7	19.2	15.2	57.2	75.3	57.9	89.0	107.1	157.1	255.9	283.5	1216.0
25	76	85.2	50.4	39.3	44.4	123.1	113.6	90.8	133.8	127.0	149.2	174.6	153.7	1285.0
25	77	42.7	25.9	9.0	12.5	63.3	113.3	147.2	182.7	151.6	153.4	168.3	85.2	1154.0
25	78	44.2	36.9	24.0	18.3	81.8	78.4	84.8	116.6	108.0	253.5	298.0	131.3	1276.0
25	79	40.9	33.1	21.7	21.8	63.7	79.4	125.2	135.6	158.7	162.3	179.3	186.7	1209.0
25	80	68.2	30.4	9.8	24.2	101.5	88.9	101.8	131.0	149.6	173.1	195.0	155.2	1228.0
25	81	94.0	48.8	48.8	212.9	172.3	146.2	182.3	203.1	166.3	191.2	194.8	169.9	1830.0
25	82	90.2	40.6	29.9	93.6	169.3	131.4	171.2	168.7	142.2	206.2	216.9	162.1	1622.0
25	83	40.1	20.3	14.7	14.9	64.9	106.6	85.2	143.2	160.4	253.6	219.4	48.3	1171.0
25	84	38.1	27.3	17.6	27.0	80.1	123.3	119.6	126.9	105.6	153.6	214.0	144.9	1179.0
25	85	67.2	30.5	19.7	23.4	61.1	80.1	96.5	114.9	143.0	233.0	269.5	90.5	1228.0
25	86	51.0	30.6	26.1	37.4	70.2	101.9	126.3	165.5	137.6	167.6	216.1	163.8	1295.0
25	87	53.7	32.7	22.7	15.7	84.6	126.4	110.9	171.4	189.0	252.5	187.7	134.1	1382.0
25	88	43.9	29.8	17.0	27.8	84.5	115.2	78.8	114.3	163.9	183.0	215.5	104.6	1179.0
25	89	43.4	34.2	18.5	19.5	75.9	100.2	143.2	124.8	168.9	158.3	223.9	81.1	1192.0
25	90	51.4	23.1	14.0	37.0	121.9	144.5	135.3	169.9	213.6	206.2	235.3	155.2	1507.0
25	91	57.9	28.1	17.7	13.7	70.0	72.3	115.2	98.4	115.4	132.3	153.4	65.1	938.0
25	92	47.1	30.9	28.4	33.0	82.8	174.6	146.1	167.9	165.1	251.0	221.8	98.0	1447.0
25	93	56.2	30.2	17.9	25.8	95.7	156.9	107.1	139.9	135.2	205.1	355.4	144.2	1469.0
25	94	44.3	28.5	15.0	30.4	94.2	140.8	154.9	190.1	174.8	207.5	231.2	121.4	1432.0
25	95	54.1	30.9	19.7	22.7	70.8	66.6	101.4	104.1	132.8	215.0	194.7	237.7	1252.0
25	96	110.4	37.3	32.2	48.4	96.9	79.0	91.6	149.1	140.2	294.1	237.4	97.3	1412.0
25	97	54.9	29.4	17.8	24.1	72.4	94.8	116.4	102.5	103.4	165.8	206.5	137.8	1126.0
25	98	38.9	23.9	13.1	22.4	102.2	134.2	139.6	165.5	185.1	278.3	258.2	381.0	1742.0

25	99	127.8	34.5	31.6	44.1	112.5	127.4	129.1	165.6	170.7	244.3	216.3	107.2	1511.0
25	100	79.3	31.7	16.6	11.3	73.1	104.9	105.0	114.5	178.3	189.8	186.8	190.9	1283.0

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MAXIMUM VOLUMES FOR PERIOD 1 OF 100 YEARS OF SYNTHETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	230.0	61.6	48.8	212.9	172.3	192.4	187.6	203.1	224.7	294.1	375.3	381.0	381.0	1407.6	6943.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	26.0	11.8	8.2	11.3	46.1	42.2	36.3	63.7	75.8	130.8	101.9	47.1	8.2	191.9	4585.
STA 25 MONTH 1 MEAN	60.19	VARIANCE	922.24	STAN. DEV.	30.37										
STA 25 MONTH 2 MEAN	31.38	VARIANCE	99.43	STAN. DEV.	9.97										
STA 25 MONTH 3 MEAN	21.76	VARIANCE	62.92	STAN. DEV.	7.93										
STA 25 MONTH 4 MEAN	34.52	VARIANCE	705.38	STAN. DEV.	26.56										
STA 25 MONTH 5 MEAN	87.14	VARIANCE	647.01	STAN. DEV.	25.44										
STA 25 MONTH 6 MEAN	109.98	VARIANCE	902.48	STAN. DEV.	30.04										
STA 25 MONTH 7 MEAN	113.90	VARIANCE	1069.77	STAN. DEV.	32.71										
STA 25 MONTH 8 MEAN	134.08	VARIANCE	1300.60	STAN. DEV.	36.06										
STA 25 MONTH 9 MEAN	144.70	VARIANCE	976.71	STAN. DEV.	31.25										
STA 25 MONTH 10 MEAN	193.57	VARIANCE	1700.78	STAN. DEV.	41.24										
STA 25 MONTH 11 MEAN	207.98	VARIANCE	3234.36	STAN. DEV.	56.87										
STA 25 MONTH 12 MEAN	141.68	VARIANCE	3838.05	STAN. DEV.	61.95										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 2

STA 25 MONTH 1	MEAN 0.007	STD DEVO 0.068
STA 25 MONTH 2	MEAN 0.012	STD DEVO 0.058
STA 25 MONTH 3	MEAN 0.007	STD DEVO 0.060
STA 25 MONTH 4	MEAN -0.007	STD DEVO 0.063
STA 25 MONTH 5	MEAN 0.004	STD DEVO 0.066
STA 25 MONTH 6	MEAN -0.004	STD DEVO 0.067
STA 25 MONTH 7	MEAN -0.008	STD DEVO 0.066
STA 25 MONTH 8	MEAN -0.010	STD DEVO 0.063
STA 25 MONTH 9	MEAN -0.005	STD DEVO 0.064
STA 25 MONTH 10	MEAN 0.001	STD DEVO 0.070
STA 25 MONTH 11	MEAN -0.002	STD DEVO 0.066
STA 25 MONTH 12	MEAN 0.008	STD DEVO 0.072

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	101	45.2	28.4	14.8	13.1	57.5	89.9	81.4	81.1	123.6	263.6	210.3	111.0	1120.0
25	102	54.1	28.1	17.7	20.7	70.8	69.8	115.6	130.3	159.7	215.1	146.6	237.4	1267.0
25	103	148.8	37.8	18.4	19.1	64.8	150.4	115.2	144.6	151.1	241.4	189.6	156.6	1438.0
25	104	45.6	25.3	16.1	23.3	61.5	119.5	111.4	96.3	107.0	196.5	195.3	185.9	1183.0
25	105	59.5	27.5	24.1	42.5	90.2	188.1	112.6	155.8	182.4	258.6	304.5	129.3	1574.0
25	106	34.3	22.7	20.0	21.8	71.5	142.6	140.7	155.6	171.7	160.8	227.5	134.8	1307.0
25	107	42.0	36.5	29.8	25.2	107.2	144.7	166.6	175.8	147.1	148.7	115.5	140.3	1279.0
25	108	48.9	27.9	15.2	12.1	47.8	53.9	34.5	67.5	164.6	201.7	279.1	303.4	1258.0
25	109	85.0	34.4	20.3	47.8	92.7	149.5	139.0	129.4	132.1	166.0	145.9	55.7	1198.0
25	110	29.3	18.7	12.7	15.5	62.6	70.1	113.7	137.3	124.5	175.0	180.0	148.0	1087.0
25	111	29.8	21.8	24.7	122.1	87.9	104.4	160.4	169.4	161.7	204.5	208.1	195.7	1490.0
25	112	72.0	36.8	27.3	32.4	77.0	118.8	94.2	126.7	139.1	196.2	310.5	270.4	1500.0
25	113	68.2	33.0	19.2	32.7	83.2	93.0	91.4	113.7	160.9	197.3	140.7	89.3	1122.0
25	114	40.7	34.8	35.4	68.5	124.1	152.8	119.9	127.1	92.7	155.4	146.4	145.0	1242.0
25	115	103.0	59.4	27.2	33.9	93.5	127.5	87.1	111.7	130.9	176.7	153.4	80.8	1185.0

25	116	77.3	24.4	12.2	9.5	61.9	79.6	87.8	141.6	169.8	203.5	220.1	180.7	1269.0
25	117	80.4	32.5	18.1	32.5	74.6	131.9	102.6	128.6	199.2	235.2	279.4	167.3	1483.0
25	118	54.1	27.1	18.3	45.4	100.3	115.6	136.2	132.0	165.1	250.9	262.2	170.4	1476.0
25	119	67.2	27.2	24.3	47.8	96.3	89.9	122.5	150.5	179.4	165.6	168.5	146.4	1284.0
25	120	64.2	34.2	17.5	22.2	115.3	107.6	91.6	138.6	144.0	154.8	145.9	82.1	1119.0
25	121	35.1	22.9	14.7	20.3	68.5	108.7	109.5	172.1	188.6	256.9	320.1	172.7	1491.0
25	122	35.1	26.9	15.9	16.2	79.7	117.7	109.3	126.9	169.4	191.9	218.8	250.3	1358.0
25	123	92.6	42.8	37.5	67.3	94.5	87.0	93.3	119.8	96.1	148.8	228.9	222.3	1330.0
25	124	83.8	35.3	20.4	27.9	77.7	107.0	108.5	140.1	138.3	213.7	178.8	69.0	1200.0
25	125	48.1	25.5	23.4	20.1	101.4	95.3	43.7	63.5	114.2	166.5	238.4	150.9	1091.0
25	126	67.1	41.5	31.4	47.6	118.7	121.7	114.8	165.9	153.7	230.7	161.0	121.2	1377.0
25	127	39.0	16.8	12.3	17.4	74.0	83.4	82.9	82.4	127.6	194.9	190.8	120.6	1042.0
25	128	60.5	40.0	31.8	50.0	103.4	118.4	103.2	99.4	122.6	148.4	201.0	150.2	1227.0
25	129	105.8	54.7	30.8	65.3	106.3	113.7	100.2	152.0	168.5	198.7	150.2	91.0	1337.0
25	130	37.0	33.8	30.8	40.7	160.0	147.2	176.4	198.2	196.7	210.8	196.9	145.9	1575.0
25	131	67.8	41.3	18.6	15.2	63.6	113.0	105.8	130.6	158.5	241.6	276.4	52.3	1285.0
25	132	38.4	21.1	9.9	21.1	71.4	101.8	115.3	159.9	172.2	208.8	239.0	120.8	1279.0
25	133	71.8	51.5	30.5	36.5	76.8	102.6	136.7	157.9	163.6	226.2	247.5	154.5	1458.0
25	134	84.8	36.5	40.1	74.9	83.2	138.6	146.8	168.6	142.7	152.5	164.5	134.3	1368.0
25	135	56.5	29.7	21.4	38.9	198.1	146.6	144.7	174.4	145.4	226.1	266.2	112.5	1560.0
25	136	32.8	22.7	18.6	37.0	103.9	126.6	104.6	132.1	80.4	177.3	168.2	191.6	1197.0
25	137	46.9	28.2	15.1	52.1	65.3	78.3	74.1	89.6	152.3	230.7	261.3	162.0	1255.0
25	138	38.8	24.0	9.1	32.3	106.7	105.5	108.9	146.6	126.0	190.6	220.9	160.1	1271.0
25	139	64.1	40.1	19.7	34.2	94.7	98.0	82.2	103.5	181.1	239.6	200.6	311.8	1471.0
25	140	95.3	43.3	31.9	49.4	87.0	134.8	165.4	195.2	184.8	258.5	402.2	123.4	1770.0
25	141	75.5	46.7	41.1	15.6	68.4	60.7	98.0	134.6	126.4	232.5	206.4	346.7	1453.0
25	142	158.7	50.5	38.7	37.3	162.9	134.2	135.6	177.1	182.9	219.2	196.3	94.5	1588.0
25	143	45.4	18.5	13.7	20.8	88.7	100.4	121.3	159.0	132.6	218.0	192.2	89.3	1199.0
25	144	89.6	41.6	28.3	65.4	99.3	85.2	55.0	91.5	144.2	195.6	201.2	84.5	1181.0
25	145	36.5	18.1	10.1	21.8	73.5	94.2	142.0	154.8	172.2	223.4	214.6	160.2	1321.0
25	146	33.7	24.8	21.8	33.7	90.7	143.9	135.5	132.9	136.0	168.2	174.3	66.0	1163.0
25	147	43.5	28.2	20.0	22.5	76.5	106.2	127.6	112.2	140.1	178.1	269.9	240.9	1366.0
25	148	95.8	42.6	23.9	45.6	130.8	108.1	126.4	170.9	130.7	125.7	115.0	106.2	1223.0
25	149	38.4	25.5	13.3	34.0	98.0	148.4	134.1	184.3	170.4	234.2	318.9	224.2	1621.0
25	150	89.6	28.4	22.1	44.2	81.6	140.9	136.8	179.7	175.0	178.2	287.7	99.0	1464.0
25	151	43.1	34.4	16.7	24.2	73.4	92.7	116.6	115.5	167.5	192.2	183.3	118.0	1177.0
25	152	33.8	28.2	17.4	20.0	79.3	119.1	146.2	134.8	166.7	189.2	232.4	100.5	1267.0
25	153	39.0	28.3	15.9	29.7	98.0	100.5	106.5	99.0	108.0	171.1	168.6	142.5	1107.0
25	154	33.0	18.8	14.5	21.0	83.0	67.1	143.6	169.9	185.2	217.1	224.7	91.6	1270.0
25	155	42.3	21.5	15.2	45.2	76.1	98.5	139.6	180.6	176.0	166.1	229.7	64.7	1255.0
25	156	65.2	26.6	23.2	18.8	60.7	104.2	100.3	114.1	150.7	185.9	269.3	125.0	1244.0
25	157	58.9	27.5	22.6	33.4	85.4	129.1	183.3	204.9	172.1	177.0	241.6	197.8	1533.0
25	158	82.6	39.8	19.5	13.7	63.9	104.8	99.1	107.8	135.4	133.2	131.2	148.9	1080.0
25	159	67.4	30.5	10.7	20.7	74.0	96.5	123.8	132.7	147.7	150.0	173.0	114.3	1142.0
25	160	43.5	23.8	18.4	19.4	58.7	66.1	51.5	46.1	81.4	183.0	210.8	186.3	989.0
25	161	59.4	40.7	27.3	54.3	85.9	120.0	106.1	138.9	157.8	160.9	202.2	210.8	1364.0
25	162	54.2	20.1	14.0	11.4	70.2	111.9	151.9	162.0	142.9	168.0	190.2	67.6	1164.0
25	163	45.5	31.0	23.8	18.8	102.3	142.3	124.7	105.2	123.5	195.1	152.7	85.3	1150.0
25	164	26.9	11.5	7.7	18.7	66.8	118.1	121.1	184.1	158.3	201.4	147.8	80.5	1142.0
25	165	44.6	23.3	13.6	20.3	75.4	166.0	180.2	166.4	161.6	179.4	179.9	249.6	1460.0
25	166	184.4	55.9	47.0	79.6	107.5	123.2	136.7	156.2	160.7	222.7	140.7	165.7	1581.0
25	167	72.1	38.8	23.2	17.6	72.1	112.0	102.6	184.2	154.7	148.8	190.1	57.9	1175.0
25	168	46.6	28.9	22.1	60.4	111.9	131.1	126.2	153.4	125.6	194.4	189.7	144.8	1335.0
25	169	45.5	31.7	31.6	28.7	75.1	94.7	83.8	109.9	113.2	222.7	236.7	71.6	1148.0

25	170	43.9	33.3	15.7	11.3	54.3	82.9	98.9	130.6	131.4	197.8	257.1	207.4	1264.0
25	171	76.7	38.1	45.4	68.3	87.8	91.3	69.8	74.5	129.0	185.6	252.1	122.0	1240.0
25	172	72.2	37.5	31.6	17.2	81.0	125.2	135.9	174.4	174.1	239.9	204.2	172.6	1465.0
25	173	62.1	45.0	28.7	53.9	167.4	174.6	180.7	158.5	141.0	201.6	169.9	146.6	1531.0
25	174	85.6	42.3	33.0	26.1	73.5	71.5	95.2	109.8	112.4	222.9	180.3	92.5	1146.0
25	175	45.3	26.2	19.7	30.4	74.8	66.1	74.8	136.7	149.7	282.6	245.8	173.1	1326.0
25	176	47.8	23.2	11.7	35.0	80.4	98.1	113.6	130.7	168.2	201.8	305.8	87.3	1304.0
25	177	53.9	37.1	19.4	26.1	79.3	100.1	108.7	91.6	91.6	118.4	149.6	69.4	945.0
25	178	41.8	19.0	18.4	32.4	86.4	112.8	159.4	188.8	190.4	207.7	232.7	121.5	1410.0
25	179	30.8	12.9	17.5	41.5	130.0	135.0	160.5	165.0	175.2	225.4	149.5	131.0	1374.0
25	180	55.8	45.4	25.2	30.6	110.8	95.5	144.8	144.8	170.0	243.1	219.5	163.4	1449.0
25	181	47.8	24.3	18.7	26.6	73.3	88.3	109.6	147.5	169.8	256.4	211.1	235.8	1410.0
25	182	80.5	38.6	24.0	31.3	83.3	120.6	127.5	145.9	172.8	227.6	264.6	109.6	1427.0
25	183	43.3	29.8	23.6	43.8	102.6	85.3	69.7	78.2	149.3	203.9	203.1	150.0	1183.0
25	184	50.3	26.4	16.4	51.4	111.5	130.1	113.0	166.3	182.3	251.3	236.1	95.1	1428.0
25	185	39.5	25.2	16.9	27.8	90.6	101.7	76.4	98.0	117.6	140.4	140.1	206.6	1082.0
25	186	41.7	21.3	13.9	26.4	70.8	103.3	85.0	107.5	109.1	184.2	199.5	98.7	1061.0
25	187	40.0	18.5	16.6	53.7	84.0	104.1	107.3	98.2	116.1	169.2	244.8	121.3	1174.0
25	188	72.2	38.2	24.2	27.9	65.0	52.5	73.3	60.9	92.0	191.0	292.6	315.8	1306.0
25	189	112.8	34.3	35.0	29.0	83.1	110.7	99.3	150.5	118.8	156.7	156.8	117.6	1205.0
25	190	34.6	27.1	13.9	26.6	108.9	133.4	117.8	118.9	150.1	185.7	173.9	122.6	1215.0
25	191	59.5	36.3	22.7	33.4	66.2	140.5	165.7	171.0	127.1	157.6	228.4	169.1	1376.0
25	192	56.6	33.5	22.3	33.7	62.1	87.5	98.5	113.6	144.9	155.1	165.3	174.9	1149.0
25	193	124.6	41.3	31.3	27.1	83.4	124.8	111.7	136.9	139.1	130.9	193.4	151.2	1295.0
25	194	40.2	30.0	18.5	16.4	63.2	101.5	64.9	117.8	90.7	141.1	178.8	76.4	939.0
25	195	64.8	35.4	25.9	17.5	63.3	70.5	117.7	99.0	117.2	152.1	168.9	115.4	1048.0
25	196	62.4	40.3	24.0	31.8	81.8	108.6	152.9	141.7	138.5	220.5	224.1	118.4	1344.0
25	197	75.3	32.4	30.4	52.9	155.6	194.1	155.7	143.3	139.4	228.5	259.3	140.7	1607.0
25	198	87.1	39.8	16.4	22.5	101.4	94.0	97.3	116.2	127.0	205.0	172.8	54.5	1133.0
25	199	28.8	23.8	18.2	28.5	102.9	140.3	126.0	135.7	154.6	185.3	353.1	107.3	1405.0
25	200	51.0	30.3	24.4	18.3	66.8	91.5	83.6	126.8	174.3	160.0	129.2	116.3	1071.0

1

MAXIMUM VOLUMES FOR PERIOD 2 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	184.4	59.4	47.0	122.1	198.1	194.1	183.3	204.9	199.2	282.6	402.2	346.7	402.2	1340.9	7246.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	26.9	11.5	7.7	9.5	47.8	52.5	34.5	46.1	80.4	118.4	115.0	52.3	7.7	191.4	4780.
STA 25 MONTH 1 MEAN	60.23	VARIANCE	809.37	STAN.	DEV.	28.45									
STA 25 MONTH 2 MEAN	31.39	VARIANCE	98.27	STAN.	DEV.	9.91									
STA 25 MONTH 3 MEAN	21.74	VARIANCE	69.80	STAN.	DEV.	8.35									
STA 25 MONTH 4 MEAN	33.30	VARIANCE	332.22	STAN.	DEV.	18.23									
STA 25 MONTH 5 MEAN	87.45	VARIANCE	730.15	STAN.	DEV.	27.02									
STA 25 MONTH 6 MEAN	110.11	VARIANCE	881.23	STAN.	DEV.	29.69									
STA 25 MONTH 7 MEAN	114.19	VARIANCE	1057.52	STAN.	DEV.	32.52									
STA 25 MONTH 8 MEAN	134.07	VARIANCE	1291.27	STAN.	DEV.	35.93									
STA 25 MONTH 9 MEAN	144.78	VARIANCE	949.05	STAN.	DEV.	30.81									
STA 25 MONTH 10 MEAN	193.81	VARIANCE	1615.66	STAN.	DEV.	40.20									
STA 25 MONTH 11 MEAN	208.66	VARIANCE	3282.18	STAN.	DEV.	57.29									
STA 25 MONTH 12 MEAN	142.50	VARIANCE	3913.73	STAN.	DEV.	62.56									

1

GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 3

G-182

STA	25	MONTH	1	MEAN	0.005	STD	DEVO	0.055
STA	25	MONTH	2	MEAN	0.002	STD	DEVO	0.054
STA	25	MONTH	3	MEAN	-0.002	STD	DEVO	0.061
STA	25	MONTH	4	MEAN	-0.003	STD	DEVO	0.062
STA	25	MONTH	5	MEAN	0.000	STD	DEVO	0.067
STA	25	MONTH	6	MEAN	0.002	STD	DEVO	0.063
STA	25	MONTH	7	MEAN	0.005	STD	DEVO	0.064
STA	25	MONTH	8	MEAN	0.003	STD	DEVO	0.067
STA	25	MONTH	9	MEAN	0.002	STD	DEVO	0.067
STA	25	MONTH	10	MEAN	0.000	STD	DEVO	0.061
STA	25	MONTH	11	MEAN	0.008	STD	DEVO	0.068
STA	25	MONTH	12	MEAN	0.000	STD	DEVO	0.063

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	201	45.6	41.4	25.3	27.1	92.3	99.9	61.6	92.7	124.2	152.5	224.3	113.0	1100.0
25	202	65.8	45.6	33.0	47.6	81.2	91.0	117.6	134.3	144.5	186.7	166.6	114.3	1229.0
25	203	37.3	32.6	19.3	19.8	90.8	109.4	92.8	110.6	157.9	200.1	193.9	201.9	1267.0
25	204	67.8	39.3	28.6	13.3	67.1	135.7	147.0	148.9	172.7	216.2	181.6	71.8	1291.0
25	205	32.4	28.3	17.2	53.3	89.6	98.5	114.3	156.5	177.8	226.6	143.8	49.7	1188.0
25	206	25.3	15.0	14.9	47.5	112.7	125.7	74.2	97.1	128.7	163.1	193.9	91.0	1089.0
25	207	55.4	21.6	24.9	47.6	92.5	108.6	159.7	203.5	168.8	285.7	366.2	245.1	1781.0
25	208	188.8	35.4	21.5	24.2	62.5	73.8	49.7	62.5	100.1	159.9	176.2	142.7	1097.0
25	209	72.2	44.2	41.7	39.7	88.4	177.2	169.5	165.2	140.5	160.7	200.8	116.6	1416.0
25	210	28.8	25.5	20.2	48.0	139.6	132.1	122.9	121.5	125.8	174.6	150.2	218.6	1309.0
25	211	61.1	35.1	25.2	41.4	80.6	120.1	156.6	172.9	148.8	208.6	205.2	290.0	1546.0
25	212	112.3	46.0	30.9	30.7	76.3	114.0	75.8	93.1	117.6	129.1	204.3	127.4	1157.0
25	213	61.5	34.7	17.4	36.5	99.1	169.6	150.5	130.2	152.3	190.8	219.5	164.6	1428.0
25	214	39.5	28.9	21.4	28.4	101.6	101.7	116.1	144.9	117.2	227.8	305.7	164.6	1399.0
25	215	60.3	33.2	33.1	55.4	68.9	97.6	113.6	153.4	190.9	248.2	190.4	92.8	1337.0
25	216	44.5	37.0	25.3	34.0	83.3	153.8	144.4	168.7	139.2	226.6	210.4	107.9	1375.0
25	217	55.0	28.2	22.7	24.8	72.4	97.2	142.0	196.2	202.5	283.3	267.8	119.1	1511.0
25	218	53.7	30.3	17.6	23.2	77.1	129.0	134.4	138.1	106.8	187.8	263.8	63.3	1225.0
25	219	41.7	17.4	18.5	14.5	75.9	110.5	112.2	141.1	132.0	155.4	129.0	74.8	1023.0
25	220	44.6	30.5	18.0	22.9	69.5	109.4	108.7	137.4	144.6	190.9	165.1	114.4	1155.0
25	221	33.7	29.2	16.7	27.1	66.7	103.7	122.0	102.4	135.8	167.2	218.0	59.5	1083.0
25	222	30.9	30.2	18.8	18.6	77.8	105.9	127.8	158.9	154.2	214.8	218.4	109.7	1267.0
25	223	95.5	44.4	25.4	42.7	92.4	156.6	137.0	127.9	127.8	212.4	266.2	166.0	1494.0
25	224	96.2	40.5	31.5	32.9	144.4	183.1	163.7	165.0	164.6	173.8	150.5	89.5	1435.0
25	225	57.7	34.1	20.4	34.5	107.5	147.0	141.1	170.4	144.7	159.5	137.7	123.7	1278.0
25	226	46.7	30.5	18.2	23.5	108.3	95.6	51.1	36.4	92.6	141.6	194.4	195.5	1035.0
25	227	63.0	17.3	13.6	15.5	66.2	89.1	107.0	140.6	133.8	240.0	241.8	180.3	1309.0
25	228	63.7	34.2	21.3	24.7	96.9	148.1	142.7	159.0	166.6	169.1	138.9	92.3	1258.0
25	229	64.0	26.2	18.5	16.2	59.0	80.5	134.7	169.7	126.5	151.4	204.9	154.8	1207.0
25	230	49.8	27.8	22.2	55.4	113.7	102.8	111.6	110.4	117.1	182.0	195.5	63.0	1151.0
25	231	26.9	21.2	16.9	29.9	90.3	99.4	109.9	133.9	137.8	155.3	171.6	143.2	1136.0
25	232	62.0	45.7	21.9	17.5	94.2	97.0	82.4	78.8	111.2	166.0	249.0	204.0	1230.0
25	233	119.8	41.0	28.3	16.9	75.2	146.2	151.9	136.5	160.3	210.8	223.1	307.9	1617.0
25	234	72.7	32.8	20.9	27.0	75.8	111.4	137.0	119.4	135.2	171.1	246.0	103.1	1252.0
25	235	52.8	26.6	14.3	18.7	63.3	110.7	108.0	173.9	178.8	217.4	228.0	94.0	1287.0
25	236	37.0	15.4	17.2	25.9	98.2	120.0	123.5	168.0	163.6	163.6	172.8	92.5	1198.0
25	237	27.1	23.2	24.2	23.4	67.6	112.5	169.5	185.9	201.9	171.3	119.2	84.3	1209.0
25	238	45.1	28.7	16.0	15.4	75.1	63.6	74.3	97.7	119.3	163.9	148.1	61.7	909.0
25	239	49.5	34.2	18.7	40.6	66.8	109.5	91.6	135.1	146.1	246.7	233.1	196.9	1371.0
25	240	69.9	25.0	18.2	72.2	187.8	135.6	111.7	128.4	146.6	227.8	220.7	161.0	1506.0

25	241	41.7	30.5	28.5	20.2	56.4	79.5	50.4	99.4	154.7	162.1	236.7	232.7	1191.0
25	242	101.4	36.5	22.9	40.1	76.3	134.2	145.4	124.4	128.7	208.9	236.6	164.1	1418.0
25	243	44.4	27.3	14.0	13.2	60.7	65.7	77.2	84.2	109.4	228.4	318.4	172.6	1214.0
25	244	117.4	47.8	31.8	61.3	89.1	88.6	116.4	114.2	108.9	174.0	213.6	94.0	1257.0
25	245	42.9	14.1	9.9	15.6	84.6	141.9	163.6	148.7	118.7	172.6	157.6	118.0	1191.0
25	246	90.9	39.7	19.8	33.3	65.0	89.9	103.7	90.7	174.5	250.5	201.7	94.6	1256.0
25	247	69.1	35.6	20.3	17.5	63.7	125.6	116.1	147.6	122.6	179.2	240.6	156.3	1296.0
25	248	45.6	13.6	13.5	34.1	66.7	98.1	111.5	137.4	128.8	189.7	217.0	222.6	1280.0
25	249	118.6	56.8	69.0	85.2	116.3	191.0	184.2	164.7	149.4	193.1	230.7	210.7	1770.0
25	250	73.8	39.4	39.6	83.2	101.2	173.4	140.2	129.3	150.3	203.1	223.2	85.0	1440.0
25	251	32.3	23.1	13.2	17.6	81.1	83.4	127.5	153.4	185.5	205.6	122.2	111.3	1155.0
25	252	58.7	32.3	22.2	27.6	96.1	112.1	102.3	81.5	106.2	199.4	208.3	166.0	1211.0
25	253	48.0	28.6	18.1	14.4	62.6	95.9	96.7	127.6	166.2	236.6	165.9	140.8	1203.0
25	254	57.7	40.1	27.9	20.3	77.3	121.4	147.2	131.7	126.4	206.7	226.9	126.3	1309.0
25	255	57.7	33.9	16.1	34.5	102.7	105.4	156.2	182.6	192.3	186.1	200.4	102.9	1371.0
25	256	54.6	27.8	20.2	28.6	87.6	77.1	95.7	149.1	136.5	204.7	176.9	109.3	1169.0
25	257	74.9	31.5	18.1	26.0	78.0	142.5	98.9	151.0	117.9	212.0	156.8	146.3	1254.0
25	258	38.0	22.7	21.0	50.2	113.9	123.6	146.7	194.4	163.0	224.1	223.7	141.5	1463.0
25	259	44.1	26.6	13.2	21.9	60.1	117.4	79.0	90.7	90.8	154.7	135.0	135.4	969.0
25	260	62.9	44.1	28.1	30.8	160.5	134.4	141.7	154.6	182.8	206.8	170.6	153.2	1472.0
25	261	53.4	28.4	19.5	37.3	132.0	96.3	115.7	119.7	147.7	290.0	218.4	104.9	1362.0
25	262	50.5	24.6	19.9	33.6	110.5	147.6	170.3	170.5	161.0	219.3	194.2	139.9	1443.0
25	263	54.9	30.7	18.9	21.0	56.4	104.3	87.2	114.6	152.6	184.5	275.9	223.6	1326.0
25	264	54.1	38.5	28.6	35.1	62.4	92.3	136.0	135.5	206.4	215.3	170.1	149.5	1324.0
25	265	51.6	28.4	18.8	21.4	72.3	112.6	79.3	74.4	112.5	191.6	200.6	84.8	1049.0
25	266	40.4	21.5	16.2	40.6	105.4	130.9	142.1	173.8	202.6	233.0	393.4	221.2	1721.0
25	267	42.2	35.2	25.4	45.1	97.5	119.7	144.0	162.8	181.4	204.7	179.1	212.3	1448.0
25	268	51.2	24.7	11.4	24.9	82.3	102.3	94.0	161.3	142.5	183.6	243.8	98.8	1221.0
25	269	49.9	22.6	10.9	14.1	69.8	78.4	62.1	98.7	183.6	188.2	177.6	147.2	1104.0
25	270	49.4	27.4	15.8	22.7	58.6	111.5	106.3	148.3	163.6	146.3	285.7	308.0	1444.0
25	271	50.9	21.9	12.6	16.8	115.1	97.5	111.3	136.4	178.2	178.3	220.2	104.0	1242.0
25	272	42.5	24.7	16.1	15.1	88.0	97.9	67.6	76.6	135.7	178.4	243.9	139.7	1128.0
25	273	42.1	33.9	25.3	34.4	163.6	92.4	121.5	167.4	194.9	260.3	205.9	71.1	1412.0
25	274	43.4	33.8	18.5	24.7	113.9	126.5	121.5	158.2	124.0	213.8	208.1	98.8	1287.0
25	275	89.8	47.5	24.1	67.0	123.1	163.4	142.1	138.0	112.8	121.6	198.8	117.1	1345.0
25	276	48.4	23.1	10.4	8.1	50.8	46.4	61.6	149.4	153.0	245.1	366.3	180.5	1342.0
25	277	49.4	26.2	23.0	32.2	111.9	119.5	91.1	108.0	118.6	143.9	119.6	64.6	1009.0
25	278	40.5	23.7	13.2	17.8	59.1	110.2	114.2	113.0	130.2	173.7	213.0	48.6	1057.0
25	279	42.5	41.3	50.1	28.8	75.6	152.3	134.6	150.8	156.7	196.1	260.1	174.1	1464.0
25	280	64.8	37.9	23.1	26.7	89.8	84.8	100.3	124.4	145.8	263.3	338.2	149.4	1448.0
25	281	50.8	26.2	19.2	28.3	70.0	84.5	89.6	145.2	149.0	141.3	154.0	103.9	1062.0
25	282	87.9	55.5	45.7	74.3	126.6	104.8	94.8	65.9	106.3	142.8	203.5	263.3	1371.0
25	283	220.0	39.1	24.4	41.5	98.7	79.0	86.6	112.0	128.7	150.7	146.3	238.8	1367.0
25	284	37.7	16.9	7.7	17.4	64.4	85.6	121.8	163.2	159.8	207.3	249.5	201.8	1334.0
25	285	50.4	24.8	18.7	21.9	96.9	88.4	98.1	177.6	180.5	246.0	241.3	132.8	1377.0
25	286	44.3	27.2	23.9	39.9	85.0	122.3	97.9	146.8	184.5	229.7	240.0	169.8	1412.0
25	287	41.0	33.9	26.7	38.3	68.6	113.1	122.7	167.9	130.4	169.1	213.2	167.2	1292.0
25	288	62.0	26.0	15.9	63.5	83.3	85.2	115.1	134.8	117.3	148.3	148.8	83.4	1082.0
25	289	46.1	25.6	15.7	21.1	82.4	99.2	147.8	181.0	200.5	275.0	251.1	67.7	1414.0
25	290	52.9	26.6	13.8	32.4	92.0	99.4	99.5	154.3	146.7	204.4	310.7	207.6	1441.0
25	291	76.7	47.0	37.3	37.6	67.1	87.5	96.5	74.4	103.7	208.0	284.2	195.4	1314.0
25	292	54.9	27.5	17.9	25.5	79.5	97.4	112.1	125.7	159.1	170.9	136.5	145.3	1152.0
25	293	48.2	38.0	18.5	58.2	76.9	51.3	53.5	89.5	117.2	213.2	219.7	175.3	1159.0
25	294	92.4	45.1	31.9	66.2	94.3	103.4	139.3	148.4	176.4	158.7	186.5	88.2	1329.0

25	295	29.2	18.5	12.1	24.0	65.4	80.0	63.3	103.7	139.5	177.8	186.7	164.4	1064.0
25	296	92.6	47.0	33.9	50.5	91.1	93.2	73.3	97.8	104.0	188.1	216.4	272.4	1360.0
25	297	163.9	42.7	35.7	47.5	85.0	89.8	125.8	159.9	154.9	151.6	157.8	88.6	1305.0
25	298	87.5	51.0	33.5	137.0	126.0	179.3	169.6	186.8	170.7	192.5	216.4	179.9	1730.0
25	299	91.8	28.3	13.2	18.8	86.9	96.2	103.6	145.1	180.1	240.6	123.3	115.1	1243.0
25	300	42.8	16.8	13.6	21.0	75.6	104.0	132.6	164.0	163.2	220.5	194.8	203.9	1355.0

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MAXIMUM VOLUMES FOR PERIOD 3 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	220.0	56.8	69.0	137.0	187.8	191.0	184.2	203.5	206.4	290.0	393.4	308.0	393.4	1458.2	6796.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	25.3	13.6	7.7	8.1	50.8	46.4	49.7	36.4	90.8	121.6	119.2	48.6	7.7	187.3	4768.
STA 25 MONTH 1 MEAN	60.75	VARIANCE	1012.22	STAN. DEV.	31.82										
STA 25 MONTH 2 MEAN	31.53	VARIANCE	95.16	STAN. DEV.	9.75										
STA 25 MONTH 3 MEAN	21.95	VARIANCE	87.21	STAN. DEV.	9.34										
STA 25 MONTH 4 MEAN	33.46	VARIANCE	380.15	STAN. DEV.	19.50										
STA 25 MONTH 5 MEAN	87.27	VARIANCE	685.18	STAN. DEV.	26.18										
STA 25 MONTH 6 MEAN	110.00	VARIANCE	922.76	STAN. DEV.	30.38										
STA 25 MONTH 7 MEAN	113.77	VARIANCE	1085.75	STAN. DEV.	32.95										
STA 25 MONTH 8 MEAN	133.86	VARIANCE	1293.08	STAN. DEV.	35.96										
STA 25 MONTH 9 MEAN	144.84	VARIANCE	997.11	STAN. DEV.	31.58										
STA 25 MONTH 10 MEAN	193.25	VARIANCE	1689.70	STAN. DEV.	41.11										
STA 25 MONTH 11 MEAN	207.98	VARIANCE	3354.78	STAN. DEV.	57.92										
STA 25 MONTH 12 MEAN	141.49	VARIANCE	3618.70	STAN. DEV.	60.16										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 4

STA 25 MONTH 1	MEAN 0.011	STD DEVO.055
STA 25 MONTH 2	MEAN 0.009	STD DEVO.053
STA 25 MONTH 3	MEAN 0.001	STD DEVO.052
STA 25 MONTH 4	MEAN 0.010	STD DEVO.061
STA 25 MONTH 5	MEAN 0.004	STD DEVO.064
STA 25 MONTH 6	MEAN 0.003	STD DEVO.066
STA 25 MONTH 7	MEAN-0.004	STD DEVO.068
STA 25 MONTH 8	MEAN-0.010	STD DEVO.064
STA 25 MONTH 9	MEAN-0.006	STD DEVO.070
STA 25 MONTH 10	MEAN 0.000	STD DEVO.063
STA 25 MONTH 11	MEAN-0.001	STD DEVO.068
STA 25 MONTH 12	MEAN 0.005	STD DEVO.064

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	301	165.0	44.7	29.5	25.2	77.8	126.5	131.7	161.6	175.0	222.7	233.5	215.7	1611.0
25	302	60.6	50.3	46.9	26.3	104.6	130.1	137.1	138.5	118.6	165.0	206.7	142.5	1329.0
25	303	49.5	31.0	24.2	149.5	119.6	129.7	145.1	144.7	172.9	233.6	193.1	67.2	1461.0
25	304	43.6	31.2	24.8	44.7	96.6	93.2	108.6	57.6	126.0	160.4	253.7	97.5	1139.0
25	305	45.6	21.4	23.8	13.0	58.4	71.6	75.6	139.1	170.7	226.9	239.2	79.6	1166.0
25	306	40.9	12.3	14.3	37.2	75.4	96.5	121.9	118.9	144.4	202.8	235.1	158.3	1257.0
25	307	81.3	28.5	21.3	35.3	73.2	78.2	87.5	170.1	182.1	188.8	370.9	189.4	1506.0
25	308	70.0	38.8	29.9	28.6	100.9	153.8	166.2	184.3	201.1	316.2	213.9	211.2	1715.0
25	309	122.1	55.4	19.0	25.3	55.8	101.4	122.4	126.3	175.5	192.2	403.0	278.8	1675.0
25	310	82.6	42.6	26.0	112.2	107.3	122.1	150.7	182.0	175.3	190.0	171.5	120.4	1482.0
25	311	30.8	20.0	13.2	32.0	75.3	110.7	135.0	130.9	165.8	182.5	163.6	260.3	1320.0

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25	312	87.3	39.9	38.2	37.0	64.8	59.4	82.1	135.1	148.4	189.0	159.4	88.0	1127.0
25	313	32.9	15.0	12.3	19.6	69.3	130.8	126.8	167.5	173.2	200.4	235.8	61.7	1245.0
25	314	45.9	34.9	24.6	35.1	114.0	119.3	103.2	122.4	126.3	169.2	137.7	124.4	1156.0
25	315	57.4	33.2	18.6	26.1	81.3	117.4	88.9	125.7	133.4	234.6	315.6	210.7	1443.0
25	316	72.5	30.8	25.3	62.9	80.2	114.0	145.8	131.0	97.7	124.8	174.5	87.1	1147.0
25	317	47.3	20.8	18.9	35.6	114.0	115.4	156.2	171.9	183.4	269.1	308.2	205.5	1645.0
25	318	37.4	27.4	23.1	23.0	103.6	117.6	150.1	173.9	144.2	253.8	183.2	112.9	1350.0
25	319	80.2	27.7	17.7	22.1	70.5	107.9	94.2	157.3	148.4	177.3	192.0	68.5	1163.0
25	320	59.1	29.3	16.1	28.5	92.0	135.3	106.0	156.5	146.2	212.5	179.0	94.2	1254.0
25	321	57.1	26.2	19.6	39.6	75.8	97.8	79.9	85.8	123.3	161.9	210.6	60.2	1039.0
25	322	32.9	22.4	14.2	28.6	56.2	140.8	147.0	184.7	174.9	211.2	170.9	110.6	1295.0
25	323	37.6	23.6	23.7	19.8	70.9	126.3	154.1	177.2	136.4	217.2	142.8	211.8	1342.0
25	324	45.3	34.7	16.3	15.1	79.2	92.8	94.7	141.3	142.1	235.9	206.0	157.0	1260.0
25	325	44.3	32.6	22.6	29.4	97.7	185.4	177.7	176.5	145.7	225.2	278.4	196.3	1612.0
25	326	69.3	26.1	10.7	17.1	79.8	91.8	89.1	122.6	99.6	136.7	214.6	166.9	1126.0
25	327	47.1	13.3	10.6	19.0	70.0	111.2	107.1	138.9	115.2	171.0	188.2	105.7	1097.0
25	328	40.7	28.1	14.9	13.0	55.5	59.6	43.6	48.6	124.9	187.7	252.3	135.7	1006.0
25	329	83.0	38.7	33.6	28.1	88.4	93.8	114.5	152.4	126.2	193.8	282.9	118.0	1353.0
25	330	28.8	17.7	7.7	20.9	84.8	142.3	132.7	138.9	130.6	183.8	141.7	132.7	1165.0
25	331	66.9	38.9	18.0	56.6	121.0	112.4	81.6	103.2	141.7	149.3	154.4	45.3	1089.0
25	332	24.7	11.2	10.0	15.4	84.6	105.7	159.2	163.6	161.0	151.9	152.4	121.1	1161.0
25	333	41.1	20.9	13.4	22.7	137.2	173.5	127.0	151.6	138.5	175.1	312.6	342.4	1656.0
25	334	113.6	51.2	46.6	43.7	91.6	121.8	127.1	156.2	170.9	143.1	230.0	173.8	1471.0
25	335	70.0	32.1	14.4	23.1	86.0	94.2	164.7	164.7	123.1	189.6	132.9	144.7	1240.0
25	336	60.1	36.4	36.5	48.3	99.1	110.8	125.4	117.6	146.6	180.2	217.0	104.5	1282.0
25	337	59.6	46.1	25.8	25.7	73.5	81.6	94.9	99.6	162.3	209.4	146.5	124.5	1150.0
25	338	77.5	26.5	10.0	11.9	65.9	95.3	113.4	126.8	150.8	227.5	283.6	178.2	1367.0
25	339	64.1	54.8	47.1	31.1	69.3	70.0	64.1	110.1	136.1	220.9	199.8	195.9	1263.0
25	340	71.0	43.8	17.2	34.4	101.7	125.5	149.4	175.5	187.8	194.3	247.1	149.0	1496.0
25	341	107.5	41.2	35.0	111.4	155.6	175.6	119.0	127.5	150.3	164.3	215.5	215.5	1618.0
25	342	82.1	43.7	22.5	24.0	59.3	93.9	95.5	99.2	162.6	170.2	164.1	118.7	1137.0
25	343	47.1	30.8	21.3	22.2	55.4	77.0	124.0	152.5	209.3	218.8	249.3	106.9	1313.0
25	344	35.8	15.7	16.2	21.1	69.9	100.9	105.9	159.9	156.1	259.4	169.7	158.0	1269.0
25	345	85.8	31.2	19.6	26.7	75.9	100.1	73.2	63.4	80.4	148.7	138.7	114.0	958.0
25	346	33.6	29.0	21.5	30.0	84.0	150.5	161.1	188.5	169.2	217.9	202.7	57.3	1345.0
25	347	25.2	27.7	24.6	64.9	103.7	148.7	131.9	168.7	174.3	150.9	200.3	140.3	1362.0
25	348	123.3	38.5	24.2	56.8	74.5	138.2	118.8	164.4	184.9	202.3	238.3	108.5	1473.0
25	349	38.3	27.0	17.7	20.8	66.8	101.4	125.9	168.0	195.1	197.0	304.4	177.6	1440.0
25	350	62.5	31.4	20.4	27.4	89.8	113.2	118.4	166.2	175.1	233.3	190.4	108.7	1334.0
25	351	58.5	37.3	30.1	43.7	66.2	71.1	68.4	135.4	152.5	188.9	222.8	118.9	1193.0
25	352	42.5	23.5	24.8	42.2	94.9	97.5	139.8	179.5	194.5	215.8	174.0	98.2	1328.0
25	353	47.6	27.5	19.2	34.3	76.7	74.1	83.6	101.4	103.1	142.6	266.0	79.1	1056.0
25	354	32.8	19.0	14.7	17.6	74.5	78.3	89.0	90.6	134.2	184.8	172.3	97.0	1006.0
25	355	31.9	25.5	27.1	24.0	74.5	95.4	76.9	93.5	122.2	215.8	198.4	196.0	1180.0
25	356	74.1	34.8	20.9	16.4	49.5	78.2	55.6	64.0	133.7	241.1	381.8	221.4	1371.0
25	357	43.0	39.6	21.2	29.2	83.5	90.8	129.0	114.0	120.0	157.5	189.0	71.1	1088.0
25	358	54.1	22.8	17.1	49.0	103.1	103.7	93.5	137.4	140.5	168.8	194.5	155.5	1241.0
25	359	71.0	33.7	23.3	16.4	106.5	153.5	136.4	118.4	119.6	209.9	245.6	134.7	1369.0
25	360	58.8	32.1	22.5	13.7	65.5	91.3	94.6	135.2	118.6	164.3	243.4	284.3	1324.0
25	361	65.7	38.5	20.6	30.2	95.8	99.7	112.6	131.7	99.9	187.8	226.6	85.8	1198.0
25	362	57.2	29.0	13.6	16.8	77.5	66.2	104.4	74.3	102.6	172.5	149.2	196.3	1059.0
25	363	71.7	38.9	16.6	17.8	59.2	114.7	82.7	99.7	111.5	164.6	186.9	167.1	1134.0
25	364	88.8	35.9	23.5	28.1	81.8	143.6	111.8	127.9	163.9	202.9	194.4	205.3	1408.0
25	365	53.0	41.4	34.1	96.4	186.3	136.3	106.8	123.9	167.0	224.2	217.9	226.2	1612.0

STA 25 MONTH 11 MEAN 207.52 VARIANCE 3540.30 STAN. DEV. 59.50
 STA 25 MONTH 12 MEAN 141.17 VARIANCE 3564.85 STAN. DEV. 59.71

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 5

STA	MONTH	1	MEAN-0.005	STD DEVO.061
STA 25	MONTH 2	MEAN-0.010	STD DEVO.066	
STA 25	MONTH 3	MEAN-0.005	STD DEVO.068	
STA 25	MONTH 4	MEAN-0.006	STD DEVO.068	
STA 25	MONTH 5	MEAN-0.003	STD DEVO.064	
STA 25	MONTH 6	MEAN 0.002	STD DEVO.064	
STA 25	MONTH 7	MEAN 0.002	STD DEVO.064	
STA 25	MONTH 8	MEAN 0.004	STD DEVO.068	
STA 25	MONTH 9	MEAN 0.004	STD DEVO.064	
STA 25	MONTH 10	MEAN 0.010	STD DEVO.070	
STA 25	MONTH 11	MEAN 0.004	STD DEVO.065	
STA 25	MONTH 12	MEAN 0.006	STD DEVO.053	

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	401	66.9	36.7	16.2	28.6	124.3	145.3	107.2	145.3	154.8	203.9	339.0	140.5	1509.0
25	402	49.4	29.0	18.3	24.2	85.2	129.6	92.1	115.8	123.7	217.4	176.5	143.8	1204.0
25	403	47.7	23.8	14.3	17.0	84.7	101.9	158.4	177.5	171.3	212.7	170.0	90.1	1270.0
25	404	30.6	28.4	18.6	42.2	94.8	116.4	149.3	161.4	130.3	175.2	164.0	47.4	1157.0
25	405	51.5	40.8	22.4	22.7	90.8	174.7	165.8	192.5	142.3	134.5	151.5	120.8	1310.0
25	406	56.1	27.3	14.0	27.5	58.0	83.1	86.7	104.1	119.4	151.6	129.8	150.0	1008.0
25	407	74.9	31.8	24.9	18.1	82.6	87.7	115.9	137.4	177.8	209.3	253.7	159.1	1374.0
25	408	38.1	26.3	27.4	95.1	103.4	101.3	102.9	132.0	163.6	200.8	223.0	88.3	1301.0
25	409	57.9	41.6	20.1	14.7	66.5	61.8	90.6	146.1	124.6	216.3	286.4	216.9	1345.0
25	410	56.2	31.1	22.9	23.0	101.9	134.2	93.2	106.4	146.3	208.7	225.8	96.3	1245.0
25	411	48.5	23.1	11.6	16.4	58.1	83.9	71.0	86.8	156.3	252.9	238.8	270.4	1317.0
25	412	94.3	41.3	33.0	32.2	69.8	112.6	92.2	87.2	122.5	195.3	164.8	110.7	1156.0
25	413	27.7	16.4	10.9	30.0	112.1	157.5	117.0	99.3	123.4	157.6	180.5	235.8	1267.0
25	414	73.1	29.7	21.0	16.9	69.4	100.0	69.4	154.1	178.1	188.1	164.6	196.9	1261.0
25	415	68.1	31.6	15.9	18.9	100.1	109.0	126.4	111.6	132.1	215.3	222.6	102.8	1255.0
25	416	25.7	20.9	17.8	16.2	72.4	103.8	114.8	115.9	138.6	199.6	272.3	247.5	1347.0
25	417	133.8	65.8	52.4	61.2	186.6	188.1	130.3	135.3	142.4	209.0	265.3	164.7	1734.0
25	418	70.3	48.4	41.9	41.3	148.9	125.6	97.5	131.5	146.6	202.6	157.7	71.7	1285.0
25	419	48.0	24.3	14.5	30.6	68.7	126.5	135.4	178.2	161.6	134.3	173.5	153.2	1247.0
25	420	59.0	33.7	20.8	41.9	89.2	98.8	60.6	76.1	134.5	188.5	222.4	105.5	1131.0
25	421	50.1	28.5	13.5	18.3	76.8	96.0	110.3	157.6	175.3	165.8	201.8	141.2	1235.0
25	422	83.4	40.5	19.7	30.9	99.8	143.7	105.2	108.9	147.1	203.9	194.3	148.6	1326.0
25	423	63.8	26.2	20.4	41.5	81.1	153.2	162.6	185.8	151.3	196.2	176.8	150.5	1408.0
25	424	50.2	31.6	20.5	33.9	64.4	97.4	135.9	134.1	154.4	174.6	177.2	204.1	1278.0
25	425	53.9	27.8	18.0	26.0	112.9	91.1	130.5	107.2	153.1	157.2	203.4	76.9	1158.0
25	426	41.1	32.9	27.4	50.0	95.7	139.0	178.0	166.3	174.3	209.1	211.3	102.1	1426.0
25	427	48.3	22.3	15.1	14.3	87.8	76.9	70.4	60.8	104.2	138.1	189.6	153.7	981.0
25	428	97.6	40.5	24.4	112.2	114.6	136.4	131.3	173.1	160.0	171.7	214.3	125.7	1502.0
25	429	48.7	29.9	22.4	66.6	76.3	112.1	98.2	134.2	198.9	197.4	174.3	133.4	1291.0
25	430	43.5	31.1	21.9	50.7	121.0	168.0	142.3	152.5	163.9	186.2	204.7	135.0	1422.0
25	431	54.7	29.5	16.8	13.1	80.0	85.5	95.6	140.0	137.9	237.3	281.8	114.7	1289.0
25	432	74.1	40.3	25.7	16.7	72.5	131.9	111.7	187.5	167.0	171.6	211.4	121.4	1332.0
25	433	49.3	29.3	16.9	23.6	87.9	79.4	56.4	83.7	130.8	184.4	154.1	103.6	999.0
25	434	40.9	27.3	22.8	42.9	101.2	132.3	151.5	190.6	181.8	304.8	294.3	84.4	1575.0
25	435	70.5	38.4	28.5	40.7	93.9	137.4	139.5	173.2	159.2	178.2	262.5	106.1	1427.0
25	436	39.9	17.8	14.3	25.7	76.8	89.9	145.4	141.1	141.6	220.6	174.6	137.1	1226.0

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25	437	40.3	18.4	10.9	21.2	64.4	69.8	86.5	170.6	145.8	176.7	210.3	115.6	1130.0
25	438	47.8	25.3	16.2	13.7	83.9	99.4	128.0	157.0	115.2	248.4	355.3	94.5	1384.0
25	439	34.1	18.9	11.8	54.1	77.2	108.0	117.0	168.6	139.7	206.8	178.2	107.7	1223.0
25	440	46.3	27.1	13.7	38.5	79.9	73.7	62.8	115.3	128.2	215.5	207.9	95.1	1104.0
25	441	70.2	39.0	25.6	111.9	76.9	121.2	152.9	189.0	199.5	197.5	145.9	124.7	1455.0
25	442	76.8	32.1	19.9	60.0	103.9	115.4	138.6	116.6	156.4	193.9	169.8	250.6	1435.0
25	443	110.8	36.0	32.5	55.5	135.3	128.4	107.2	90.7	85.3	188.7	185.6	122.0	1279.0
25	444	40.5	17.3	7.6	10.6	49.2	74.7	146.3	158.8	186.4	289.0	256.0	113.4	1349.0
25	445	44.9	34.2	22.5	54.0	95.2	88.7	88.2	99.1	103.2	128.8	129.6	110.1	998.0
25	446	46.5	23.5	14.2	14.6	84.3	107.3	89.0	111.0	125.1	196.4	120.4	134.1	1064.0
25	447	122.4	64.7	34.0	33.9	140.0	128.0	127.7	148.7	148.6	229.1	240.5	155.1	1574.0
25	448	71.1	34.2	20.4	37.0	69.6	100.8	107.5	136.5	186.8	267.6	223.3	123.5	1378.0
25	449	45.5	29.9	19.7	20.8	67.4	90.1	130.8	145.9	110.9	160.9	172.0	240.5	1235.0
25	450	163.2	55.9	45.4	69.4	84.6	94.1	47.9	73.4	95.8	187.5	298.0	359.3	1573.0
25	451	51.9	29.8	22.0	36.7	63.7	87.8	95.3	114.5	111.1	151.3	273.9	62.2	1101.0
25	452	29.5	11.9	10.1	15.0	65.3	115.1	144.0	156.7	159.1	223.8	263.0	108.6	1303.0
25	453	40.8	28.4	16.6	42.1	71.8	98.3	167.3	182.7	191.9	221.5	206.3	105.9	1373.0
25	454	50.2	36.6	26.2	31.3	95.4	92.8	128.0	175.9	175.6	218.2	235.9	85.9	1352.0
25	455	68.8	40.3	27.4	20.7	87.6	115.5	149.3	126.7	129.1	200.5	230.5	148.1	1345.0
25	456	41.8	24.2	25.2	23.6	64.7	108.6	112.6	101.8	108.0	152.8	150.7	124.7	1041.0
25	457	48.1	26.5	16.2	30.6	78.4	145.5	163.1	192.4	208.4	226.4	145.3	166.1	1445.0
25	458	50.6	23.7	19.1	33.4	76.3	95.8	137.6	143.7	155.2	258.2	273.3	176.5	1443.0
25	459	100.3	47.4	29.2	20.6	70.6	96.6	56.3	73.1	139.4	232.7	253.1	121.2	1240.0
25	460	45.0	27.2	17.6	26.9	75.8	107.6	104.4	147.5	130.0	144.5	202.0	109.9	1139.0
25	461	79.4	30.1	28.0	22.3	49.9	65.4	80.6	101.2	151.2	199.1	233.6	215.8	1256.0
25	462	88.1	41.9	34.7	35.7	79.5	133.3	124.3	166.2	124.9	184.5	161.1	57.5	1232.0
25	463	39.0	22.5	16.4	17.4	64.2	69.6	90.5	127.5	132.1	180.6	223.5	219.9	1202.0
25	464	97.1	44.1	31.8	36.0	74.1	77.0	82.4	82.0	131.4	196.2	307.3	293.6	1452.0
25	465	63.4	41.1	28.3	30.1	70.9	121.7	141.2	151.8	119.5	163.6	158.7	250.8	1341.0
25	466	135.4	46.1	51.3	55.6	153.7	160.3	160.3	164.7	149.9	203.8	242.1	215.2	1738.0
25	467	42.1	19.3	12.5	30.9	74.6	100.1	127.0	172.6	181.6	133.7	175.5	99.8	1172.0
25	468	30.7	22.0	14.5	24.0	79.8	125.9	143.4	159.1	167.5	187.8	257.1	339.9	1553.0
25	469	75.8	35.9	20.6	27.8	100.6	119.5	131.3	164.9	169.4	208.4	277.0	137.1	1469.0
25	470	129.9	52.5	27.9	58.9	112.8	129.2	107.3	96.2	117.5	188.1	209.6	122.0	1352.0
25	471	59.3	35.9	46.7	44.4	96.4	129.8	107.1	155.0	171.3	179.6	139.2	131.4	1295.0
25	472	70.2	39.3	30.9	40.7	74.1	101.8	37.2	87.5	107.4	213.3	171.3	125.3	1098.0
25	473	40.5	35.9	15.3	17.3	62.1	78.2	123.8	166.4	174.8	213.1	156.8	116.2	1200.0
25	474	27.0	24.9	21.6	22.1	72.6	110.8	88.3	123.1	146.0	205.2	225.6	206.5	1275.0
25	475	45.8	30.4	22.6	21.9	62.6	83.7	151.8	180.0	153.1	291.0	272.1	175.5	1492.0
25	476	75.2	39.7	24.1	47.5	134.6	160.9	151.8	187.7	229.0	195.0	269.7	266.9	1784.0
25	477	130.4	28.1	18.5	12.4	76.0	110.7	95.1	157.9	144.6	298.8	348.5	179.2	1601.0
25	478	78.8	34.8	39.7	37.6	90.0	137.7	150.6	167.4	148.6	168.9	189.7	59.7	1306.0
25	479	41.4	25.0	20.6	23.1	83.5	122.9	97.2	147.6	135.9	160.4	300.2	182.2	1339.0
25	480	67.6	43.1	27.9	18.6	53.9	83.4	118.1	141.7	144.3	158.6	157.9	75.3	1091.0
25	481	32.1	23.2	15.6	21.0	102.2	112.7	137.8	164.6	155.0	211.1	137.9	147.7	1262.0
25	482	85.8	39.6	27.9	58.5	97.2	94.9	95.9	105.4	121.6	139.5	185.5	149.5	1203.0
25	483	63.3	29.8	19.9	29.2	91.5	81.3	100.3	115.8	167.3	249.5	277.3	170.0	1395.0
25	484	50.1	34.2	31.1	24.5	84.7	133.7	94.4	64.7	82.0	165.6	156.4	133.7	1056.0
25	485	39.2	30.6	23.5	51.6	90.3	150.2	140.0	172.9	199.6	250.5	275.7	72.2	1497.0
25	486	52.6	35.4	20.7	51.0	96.0	144.5	144.8	135.9	184.9	172.7	181.4	223.6	1445.0
25	487	46.2	27.3	17.2	21.7	82.9	86.1	133.7	141.8	136.0	182.4	142.1	192.1	1209.0
25	488	57.9	27.9	20.3	35.8	107.9	93.5	128.7	136.0	158.2	170.9	164.7	166.2	1269.0
25	489	48.0	31.1	24.8	23.5	74.6	75.3	64.0	94.6	112.7	189.4	132.4	87.0	958.0
25	490	50.1	27.8	21.0	12.7	108.8	131.9	154.0	167.7	163.6	167.8	180.4	88.6	1276.0

25	491	47.0	36.9	19.8	25.3	103.3	147.7	146.9	126.5	160.5	144.0	257.0	90.4	1305.0
25	492	67.5	27.1	14.3	30.5	74.9	90.4	119.4	132.4	173.0	188.2	222.2	101.0	1240.0
25	493	65.5	34.9	23.2	42.9	178.6	174.6	136.6	129.7	163.3	230.9	262.6	165.4	1610.0
25	494	41.7	17.8	12.3	26.1	71.0	83.5	99.0	73.7	94.1	193.5	231.4	108.2	1051.0
25	495	25.7	17.9	13.0	19.6	83.1	95.3	110.0	93.7	122.0	175.7	175.1	101.8	1034.0
25	496	57.6	27.0	13.5	14.1	54.6	53.4	40.6	95.5	130.4	213.3	206.2	221.5	1126.0
25	497	74.0	42.3	24.8	37.9	76.1	108.5	128.1	113.9	142.9	235.2	195.2	53.6	1233.0
25	498	38.0	16.3	13.9	28.5	111.3	116.3	103.2	107.9	131.3	141.8	192.4	173.5	1174.0
25	499	78.2	28.8	27.7	50.1	85.1	75.0	78.8	120.3	107.8	153.4	113.4	49.8	968.0
25	500	30.0	21.9	13.8	33.7	84.0	157.6	131.1	150.0	116.3	154.8	187.9	98.0	1180.0

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MAXIMUM VOLUMES FOR PERIOD 5 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	163.2	65.8	52.4	112.2	186.6	188.1	178.0	192.5	229.0	304.8	355.3	359.3	359.3	1300.1	7250.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	25.7	11.9	7.6	10.6	49.2	53.4	37.2	60.8	82.0	128.8	113.4	47.4	7.6	194.0	4770.
STA 25 MONTH 1	MEAN	60.13	VARIANCE	720.57	STAN. DEV.	26.84									
STA 25 MONTH 2	MEAN	31.47	VARIANCE	102.34	STAN. DEV.	10.12									
STA 25 MONTH 3	MEAN	21.90	VARIANCE	78.15	STAN. DEV.	8.84									
STA 25 MONTH 4	MEAN	33.31	VARIANCE	368.56	STAN. DEV.	19.20									
STA 25 MONTH 5	MEAN	87.11	VARIANCE	684.66	STAN. DEV.	26.17									
STA 25 MONTH 6	MEAN	109.47	VARIANCE	886.91	STAN. DEV.	29.78									
STA 25 MONTH 7	MEAN	113.95	VARIANCE	1079.94	STAN. DEV.	32.86									
STA 25 MONTH 8	MEAN	133.81	VARIANCE	1319.69	STAN. DEV.	36.33									
STA 25 MONTH 9	MEAN	145.31	VARIANCE	982.17	STAN. DEV.	31.34									
STA 25 MONTH 10	MEAN	193.93	VARIANCE	1709.48	STAN. DEV.	41.35									
STA 25 MONTH 11	MEAN	208.01	VARIANCE	3244.38	STAN. DEV.	56.96									
STA 25 MONTH 12	MEAN	142.72	VARIANCE	3963.79	STAN. DEV.	62.96									

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 6

STA 25 MONTH 1	MEAN	0.008	STD DEVO	0.053
STA 25 MONTH 2	MEAN	-0.001	STD DEVO	0.057
STA 25 MONTH 3	MEAN	0.002	STD DEVO	0.064
STA 25 MONTH 4	MEAN	0.007	STD DEVO	0.065
STA 25 MONTH 5	MEAN	0.006	STD DEVO	0.067
STA 25 MONTH 6	MEAN	-0.007	STD DEVO	0.065
STA 25 MONTH 7	MEAN	-0.010	STD DEVO	0.065
STA 25 MONTH 8	MEAN	-0.004	STD DEVO	0.066
STA 25 MONTH 9	MEAN	-0.003	STD DEVO	0.059
STA 25 MONTH 10	MEAN	-0.003	STD DEVO	0.062
STA 25 MONTH 11	MEAN	0.007	STD DEVO	0.058
STA 25 MONTH 12	MEAN	0.006	STD DEVO	0.055

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	501	35.0	21.6	16.0	67.9	146.2	114.0	123.7	125.4	130.2	270.4	419.9	212.0	1682.0
25	502	98.1	48.9	31.4	34.8	92.8	120.0	132.6	165.0	111.6	220.5	247.0	172.4	1476.0
25	503	50.5	21.2	15.6	28.0	71.3	170.1	136.9	109.1	139.9	134.1	198.9	148.2	1223.0
25	504	66.7	46.2	33.1	39.9	84.4	119.8	94.2	129.7	132.9	202.9	172.5	168.7	1292.0
25	505	125.5	38.7	22.6	23.9	66.0	95.8	85.0	149.0	158.4	146.6	183.4	202.8	1299.0
25	506	38.6	14.5	9.2	17.2	72.1	108.5	105.7	138.9	170.4	248.9	251.2	156.1	1331.0
25	507	178.5	56.0	30.4	22.5	60.4	72.4	102.9	127.7	166.4	189.5	257.6	164.2	1427.0

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25	508	88.5	25.4	20.7	37.1	92.8	142.9	149.2	181.5	157.2	231.8	223.7	265.1	1616.0
25	509	72.8	42.7	44.9	70.6	141.8	104.1	98.5	132.4	120.4	202.7	279.6	184.2	1495.0
25	510	82.1	30.9	18.7	13.5	70.9	92.4	81.6	146.8	127.4	162.9	181.4	120.5	1129.0
25	511	56.5	32.7	19.1	11.9	62.0	122.5	132.8	196.9	179.4	234.2	181.5	87.3	1318.0
25	512	28.4	26.2	16.8	20.0	76.3	101.4	141.3	154.6	198.7	166.7	218.5	208.8	1358.0
25	513	45.7	26.8	18.4	22.2	74.8	73.5	51.2	40.3	92.5	134.2	168.3	70.8	819.0
25	514	58.6	35.0	23.5	29.9	119.0	157.1	162.3	167.2	172.7	195.9	123.0	51.8	1297.0
25	515	74.4	44.1	40.5	42.4	116.7	121.3	143.4	169.4	119.5	197.6	210.5	296.2	1573.0
25	516	61.6	31.8	28.5	19.2	99.3	105.8	139.0	178.0	161.9	224.1	181.3	95.7	1326.0
25	517	51.4	29.4	17.8	18.8	77.2	121.2	147.4	189.3	162.2	273.6	259.6	155.0	1502.0
25	518	50.8	29.4	19.8	32.2	85.2	111.7	145.2	172.7	184.7	186.0	175.9	162.6	1357.0
25	519	76.1	42.1	30.4	17.3	58.9	73.5	125.2	151.1	148.6	211.6	189.8	107.7	1233.0
25	520	40.3	36.6	27.8	35.2	74.4	137.1	158.5	190.3	177.5	175.7	165.4	131.6	1351.0
25	521	49.1	30.3	23.0	22.8	60.3	85.4	88.1	78.0	97.3	236.7	149.4	82.0	1001.0
25	522	36.3	25.9	15.5	24.2	64.0	90.9	77.5	114.9	134.2	166.8	159.8	70.2	980.0
25	523	51.1	42.2	23.3	25.9	75.4	79.4	81.3	101.3	155.1	185.1	254.6	170.1	1243.0
25	524	54.6	28.8	14.7	8.7	62.2	62.3	56.4	110.0	171.4	303.6	299.4	89.3	1261.0
25	525	85.9	32.7	22.0	28.7	70.6	126.4	91.8	96.6	110.6	180.3	135.2	167.7	1150.0
25	526	38.3	26.9	25.6	36.2	76.4	89.0	118.4	131.2	127.4	188.1	221.1	177.8	1255.0
25	527	55.1	32.3	15.6	52.5	128.6	128.4	91.1	93.5	148.0	218.1	202.0	153.3	1319.0
25	528	55.4	32.8	14.4	20.0	72.8	94.8	119.9	106.1	121.0	223.6	350.3	134.7	1346.0
25	529	64.3	28.5	20.2	35.1	75.4	107.7	110.7	76.0	132.5	206.1	152.4	170.5	1179.0
25	530	51.1	22.1	13.7	25.1	57.3	106.4	61.0	69.2	116.2	144.4	244.5	160.8	1070.0
25	531	67.1	24.0	14.2	13.5	84.5	79.3	82.2	85.2	114.3	177.2	227.1	211.6	1179.0
25	532	56.4	31.4	20.3	26.8	109.9	101.5	103.0	150.7	153.9	186.4	266.4	116.9	1323.0
25	533	86.2	44.6	44.4	101.2	104.3	98.4	100.9	154.2	169.9	203.7	289.3	161.3	1557.0
25	534	30.2	19.0	19.5	16.3	66.1	91.7	95.3	138.3	124.0	128.0	120.9	176.5	1025.0
25	535	70.8	36.0	30.2	47.8	84.3	102.8	125.3	134.4	209.6	182.1	202.3	144.0	1369.0
25	536	73.2	26.3	16.2	21.2	65.2	109.7	154.8	127.8	104.4	185.1	182.3	250.2	1315.0
25	537	67.3	32.1	24.2	23.9	57.8	87.0	100.2	100.3	154.5	178.4	231.9	239.0	1296.0
25	538	90.4	43.6	23.3	22.5	87.5	111.7	120.6	134.9	127.6	180.1	157.3	187.7	1288.0
25	539	51.0	25.5	21.9	27.1	69.5	93.2	135.5	150.1	148.7	235.4	223.6	169.1	1349.0
25	540	71.1	20.7	14.9	47.6	108.9	116.1	146.6	162.8	144.1	152.1	148.4	172.2	1306.0
25	541	48.7	41.8	24.3	24.1	83.0	135.8	159.0	175.4	123.0	132.3	120.3	80.8	1148.0
25	542	53.8	43.6	33.0	37.6	61.8	86.7	103.1	109.6	139.1	162.4	212.7	64.3	1109.0
25	543	76.7	44.1	27.3	30.0	127.4	206.1	149.7	195.3	235.5	269.9	378.6	77.7	1819.0
25	544	36.0	21.9	11.5	14.5	54.4	66.7	69.0	92.7	121.2	191.8	234.4	207.7	1121.0
25	545	141.5	44.4	27.5	98.8	140.0	127.5	107.8	106.2	142.1	180.0	124.2	156.0	1395.0
25	546	69.1	44.9	41.2	39.8	85.3	94.7	92.7	112.0	109.3	234.1	202.5	142.2	1267.0
25	547	61.0	37.6	21.0	36.2	121.3	143.4	122.1	149.1	152.3	277.5	279.8	171.5	1571.0
25	548	63.2	31.2	18.3	31.8	63.2	83.7	89.0	73.3	138.6	184.4	217.1	143.6	1137.0
25	549	36.1	29.4	22.2	65.7	104.2	93.3	118.4	133.0	156.4	212.1	158.4	141.2	1268.0
25	550	60.6	32.9	26.9	24.1	82.7	120.5	87.0	147.7	193.1	213.5	212.6	132.7	1336.0
25	551	108.1	49.2	20.4	28.5	87.2	135.9	172.5	190.2	160.2	173.9	189.6	212.4	1527.0
25	552	72.7	37.2	22.9	64.4	105.3	140.8	112.0	156.3	154.4	177.7	210.2	106.5	1359.0
25	553	59.5	29.9	17.6	24.4	106.7	194.8	181.7	204.1	206.9	198.0	213.4	126.5	1563.0
25	554	40.2	24.7	16.9	38.5	94.4	107.3	69.4	111.5	167.0	139.3	180.6	56.5	1046.0
25	555	55.7	22.3	17.9	29.7	81.1	118.1	106.1	103.9	96.4	147.3	185.2	146.5	1109.0
25	556	44.0	25.9	15.3	29.5	79.3	115.4	121.5	138.6	127.3	180.5	144.5	169.7	1191.0
25	557	44.5	29.3	15.1	27.8	89.3	81.7	104.7	111.2	151.7	137.4	142.6	201.6	1138.0
25	558	56.4	26.2	19.1	27.7	92.3	134.4	132.0	158.0	163.0	181.2	292.5	185.7	1467.0
25	559	50.6	34.7	22.7	59.1	94.9	96.2	92.8	138.2	175.3	212.6	276.2	147.7	1402.0
25	560	74.1	34.6	37.2	79.3	118.6	124.7	133.9	127.4	116.9	162.1	219.5	148.7	1378.0
25	561	46.4	32.0	26.2	47.8	97.3	141.4	117.8	111.2	104.7	183.2	182.4	137.3	1226.0

25	562	43.1	25.9	25.1	19.6	53.2	44.7	54.1	68.0	125.2	217.8	206.4	35.3	918.0
25	563	30.6	16.8	12.0	18.7	77.4	118.6	108.9	163.4	171.4	223.8	218.4	135.4	1295.0
25	564	47.1	26.7	22.6	49.1	98.8	126.0	140.5	128.3	110.4	164.5	233.7	83.4	1231.0
25	565	42.1	20.1	11.2	17.7	100.9	148.7	100.4	98.4	143.6	203.3	186.5	108.6	1182.0
25	566	59.0	43.3	31.7	24.5	79.8	88.9	83.4	114.2	136.1	138.6	122.6	128.4	1050.0
25	567	56.9	35.2	24.8	24.5	80.4	111.9	113.0	106.8	126.9	196.6	217.0	244.9	1340.0
25	568	45.1	20.9	20.5	20.2	64.3	69.8	76.6	98.7	160.7	228.9	297.3	132.2	1235.0
25	569	56.5	21.5	16.3	51.5	110.6	100.6	129.6	151.6	162.9	287.2	220.6	109.7	1421.0
25	570	43.8	26.9	16.8	29.0	98.2	90.5	102.0	112.5	165.0	172.1	204.1	98.2	1158.0
25	571	31.8	19.5	11.7	28.8	77.9	161.5	162.6	173.0	177.2	174.1	164.1	51.0	1234.0
25	572	53.7	31.5	25.9	33.4	86.9	146.4	143.5	127.3	135.1	166.7	121.1	145.8	1218.0
25	573	109.1	37.0	19.5	37.8	152.1	163.5	176.4	147.8	103.2	161.6	189.4	130.4	1427.0
25	574	37.9	18.9	15.4	11.1	63.1	88.5	92.5	106.2	108.4	136.5	203.5	169.1	1049.0
25	575	43.5	34.1	15.3	31.0	71.0	118.8	126.8	173.9	172.4	235.6	230.1	68.7	1322.0
25	576	39.9	41.7	43.5	34.8	74.8	100.7	118.5	158.7	161.0	212.2	166.4	149.4	1303.0
25	577	99.6	31.5	13.5	20.5	56.9	100.7	143.5	129.7	173.4	254.0	276.4	114.0	1414.0
25	578	44.5	32.3	17.4	43.5	105.2	92.2	92.7	135.4	161.0	210.3	171.8	114.6	1219.0
25	579	32.0	15.3	10.6	12.1	64.8	77.4	78.1	144.6	195.9	217.3	305.4	188.0	1341.0
25	580	65.9	43.0	23.9	19.8	84.9	92.3	73.8	103.8	143.2	162.3	176.2	36.6	1026.0
25	581	25.5	15.7	15.6	40.4	119.3	106.7	77.9	101.5	110.0	176.0	272.1	147.5	1209.0
25	582	37.0	27.4	13.1	20.3	77.1	76.3	149.8	181.2	159.5	172.3	249.6	145.2	1307.0
25	583	43.2	20.8	12.6	38.9	83.0	123.7	94.3	118.3	162.9	205.9	176.1	31.3	1111.0
25	584	35.1	30.2	14.5	24.4	81.9	115.3	102.3	129.7	153.7	242.3	295.7	266.0	1491.0
25	585	324.2	64.3	44.0	125.3	174.3	121.2	114.7	132.9	161.5	237.2	231.9	160.6	1891.0
25	586	131.5	57.6	34.0	92.5	101.7	98.5	120.7	144.0	160.7	161.1	144.6	119.6	1369.0
25	587	35.2	20.9	17.4	16.5	90.7	126.8	163.0	164.7	105.0	181.1	219.2	131.7	1272.0
25	588	53.4	30.1	23.8	28.3	73.9	68.3	67.8	118.7	140.3	207.0	179.0	117.0	1107.0
25	589	43.0	18.9	12.3	23.1	73.4	109.5	147.1	175.7	136.6	202.2	212.5	200.1	1355.0
25	590	73.5	27.8	19.3	36.8	109.6	99.3	91.2	133.9	155.9	187.1	211.1	144.6	1290.0
25	591	33.6	27.8	22.4	22.9	113.7	155.5	166.8	153.2	158.8	178.4	213.6	105.6	1353.0
25	592	49.7	30.3	21.5	15.2	72.6	132.7	116.1	147.1	135.5	177.8	252.9	106.4	1257.0
25	593	37.2	24.7	16.5	46.7	71.1	130.6	90.7	140.6	117.1	197.6	154.0	94.5	1123.0
25	594	64.7	44.0	33.2	36.0	106.9	185.2	143.0	167.8	169.4	204.0	177.7	112.6	1445.0
25	595	30.4	21.3	10.9	33.6	64.3	80.9	54.7	80.3	90.7	183.1	214.0	223.5	1088.0
25	596	67.9	33.3	40.1	36.4	96.4	120.2	156.1	160.9	138.5	209.3	199.8	108.3	1366.0
25	597	46.5	33.7	32.4	19.6	80.3	94.5	119.8	186.7	163.8	178.2	201.1	88.5	1245.0
25	598	51.8	33.7	28.4	49.6	133.9	131.5	130.6	157.1	147.6	199.2	204.5	123.6	1392.0
25	599	43.1	23.9	10.8	29.3	69.7	100.8	133.0	139.6	189.5	249.5	193.2	188.1	1370.0
25	600	78.7	37.7	15.6	25.1	105.3	109.2	179.7	176.8	145.7	211.2	198.2	112.0	1396.0

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MAXIMUM VOLUMES FOR PERIOD 6 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	324.2	64.3	44.9	125.3	174.3	206.1	181.7	204.1	235.5	303.6	419.9	296.2	419.9	1435.1	6919.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	25.5	14.5	9.2	8.7	53.2	44.7	51.2	40.3	90.7	128.0	120.3	31.3	8.7	190.8	4809.
STA 25 MONTH 1 MEAN	60.93	VARIANCE	1376.14	STAN. DEV.	37.10										
STA 25 MONTH 2 MEAN	31.32	VARIANCE	102.01	STAN. DEV.	10.10										
STA 25 MONTH 3 MEAN	21.87	VARIANCE	75.04	STAN. DEV.	8.66										
STA 25 MONTH 4 MEAN	33.54	VARIANCE	411.60	STAN. DEV.	20.29										
STA 25 MONTH 5 MEAN	86.88	VARIANCE	641.73	STAN. DEV.	25.33										
STA 25 MONTH 6 MEAN	109.95	VARIANCE	926.32	STAN. DEV.	30.44										

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STA 25 MONTH 7 MEAN	113.16	VARIANCE	1048.63	STAN. DEV.	32.38
STA 25 MONTH 8 MEAN	133.52	VARIANCE	1264.00	STAN. DEV.	35.55
STA 25 MONTH 9 MEAN	145.01	VARIANCE	996.94	STAN. DEV.	31.57
STA 25 MONTH 10 MEAN	193.35	VARIANCE	1698.92	STAN. DEV.	41.22
STA 25 MONTH 11 MEAN	207.98	VARIANCE	3402.18	STAN. DEV.	58.33
STA 25 MONTH 12 MEAN	141.82	VARIANCE	2975.62	STAN. DEV.	54.55

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 7

STA 25 MONTH 1	MEAN-0.011	STD DEVO.066
STA 25 MONTH 2	MEAN-0.003	STD DEVO.067
STA 25 MONTH 3	MEAN-0.007	STD DEVO.066
STA 25 MONTH 4	MEAN-0.008	STD DEVO.067
STA 25 MONTH 5	MEAN-0.008	STD DEVO.062
STA 25 MONTH 6	MEAN-0.003	STD DEVO.066
STA 25 MONTH 7	MEAN 0.002	STD DEVO.073
STA 25 MONTH 8	MEAN-0.001	STD DEVO.068
STA 25 MONTH 9	MEAN 0.010	STD DEVO.072
STA 25 MONTH 10	MEAN 0.007	STD DEVO.067
STA 25 MONTH 11	MEAN 0.009	STD DEVO.055
STA 25 MONTH 12	MEAN 0.000	STD DEVO.062

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	601	51.4	26.0	16.9	33.9	66.1	67.9	77.8	119.0	135.3	154.5	167.0	92.4	1008.0
25	602	49.3	34.8	27.8	42.4	109.2	144.6	167.3	181.8	223.5	248.2	163.8	193.5	1586.0
25	603	78.7	40.8	29.4	39.3	116.8	131.4	148.8	159.4	140.0	233.2	184.0	92.5	1393.0
25	604	30.5	21.9	16.3	23.9	70.9	142.5	117.0	134.0	162.3	169.4	197.2	85.0	1171.0
25	605	30.4	16.0	12.6	15.8	57.9	89.8	156.5	154.8	140.9	201.1	188.5	115.3	1179.0
25	606	42.4	24.7	11.9	35.4	82.9	126.8	137.1	112.8	179.0	275.1	174.7	74.2	1277.0
25	607	34.0	19.0	22.9	19.9	78.9	107.7	145.7	140.6	157.1	174.5	175.1	110.5	1187.0
25	608	46.9	21.2	20.1	23.4	59.9	71.1	105.0	123.0	158.6	192.3	165.6	183.4	1170.0
25	609	79.2	37.1	45.2	20.7	90.1	142.9	163.6	191.8	160.2	154.8	188.6	187.4	1462.0
25	610	52.1	28.1	28.1	37.1	87.9	129.6	91.4	140.5	142.9	166.2	283.0	217.2	1404.0
25	611	52.9	39.3	31.7	66.3	105.0	101.5	72.8	58.3	127.5	171.3	182.1	87.4	1096.0
25	612	29.0	10.4	6.9	8.5	60.3	144.6	135.4	179.1	211.6	224.5	187.3	106.9	1305.0
25	613	69.9	34.9	31.4	35.9	70.8	90.2	85.7	85.8	90.5	136.1	169.4	107.9	1009.0
25	614	38.4	21.4	11.5	33.4	87.8	90.3	96.2	114.3	143.3	127.2	185.6	265.6	1214.0
25	615	259.2	45.0	28.0	88.6	112.5	123.4	126.9	145.2	170.6	214.4	221.0	167.8	1703.0
25	616	57.9	29.2	22.5	19.3	77.6	103.2	116.5	176.6	198.0	204.1	193.0	105.6	1304.0
25	617	54.2	30.3	17.1	21.1	73.5	129.2	125.2	103.8	119.0	169.2	277.7	292.6	1412.0
25	618	131.4	51.1	42.4	30.1	74.9	59.5	67.8	74.8	130.6	241.7	382.6	93.9	1381.0
25	619	45.9	30.3	22.6	15.9	68.6	94.6	98.2	97.8	109.6	234.2	139.0	62.1	1020.0
25	620	24.8	16.2	10.6	18.1	90.5	137.3	131.0	154.4	168.4	228.9	183.7	94.6	1259.0
25	621	52.8	26.7	23.9	19.9	75.2	167.7	156.7	185.7	174.3	197.3	178.8	125.0	1385.0
25	622	76.9	39.2	25.2	43.0	77.0	127.3	157.4	178.1	172.5	217.3	163.2	187.0	1463.0
25	623	87.6	39.8	19.9	40.7	99.1	148.5	103.1	116.5	145.6	205.7	212.4	89.1	1308.0
25	624	40.4	36.6	20.4	19.7	88.1	109.4	84.1	88.8	108.0	151.1	183.2	110.2	1039.0
25	625	44.1	24.5	18.9	24.7	119.1	155.1	166.2	196.9	180.6	153.6	221.0	110.7	1417.0
25	626	36.9	27.4	20.7	23.5	74.7	132.8	120.0	148.7	187.6	232.2	240.7	223.4	1469.0
25	627	103.1	39.0	19.1	25.1	80.1	67.1	67.4	124.6	166.1	217.8	191.0	104.6	1205.0
25	628	47.2	27.1	18.7	24.6	85.0	101.1	128.1	127.4	109.9	193.4	181.2	201.2	1244.0
25	629	47.6	37.7	19.5	10.0	57.4	88.0	91.5	143.2	149.3	210.6	269.2	189.3	1314.0
25	630	77.3	43.8	27.7	29.4	112.2	116.9	143.6	124.3	139.6	161.8	126.7	99.7	1204.0
25	631	40.8	26.7	14.6	19.1	60.6	96.3	115.3	129.6	136.8	205.4	272.1	205.1	1323.0
25	632	83.9	40.8	26.6	24.5	64.4	88.1	72.5	115.7	141.6	250.0	336.6	127.3	1373.0

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25	633	78.9	38.4	23.6	22.9	99.1	134.8	126.7	111.8	121.3	159.4	282.4	252.9	1452.0
25	634	82.5	54.8	39.8	96.7	153.1	154.9	136.1	145.2	153.8	216.5	270.5	81.9	1586.0
25	635	30.6	18.0	16.2	20.3	75.3	119.4	150.1	179.1	109.1	180.1	172.9	58.9	1129.0
25	636	41.4	24.4	17.1	27.7	102.1	135.9	133.3	162.4	145.7	228.5	373.2	147.1	1538.0
25	637	56.3	27.8	18.4	41.7	96.3	124.5	141.8	167.3	161.8	240.4	212.1	291.1	1578.0
25	638	131.4	37.7	33.0	48.1	104.3	100.9	77.3	96.7	132.8	190.4	187.1	144.5	1284.0
25	639	68.5	57.0	38.4	46.7	113.3	103.9	135.8	169.4	142.3	147.9	191.7	168.5	1383.0
25	640	76.7	42.0	29.5	24.5	81.3	51.1	82.6	94.2	151.8	164.5	185.3	86.9	1070.0
25	641	77.6	25.1	14.2	17.4	65.2	124.0	148.1	175.6	167.9	161.4	181.6	42.0	1200.0
25	642	50.4	36.0	20.3	26.6	92.2	90.0	108.0	140.4	153.8	205.4	260.7	93.2	1276.0
25	643	52.3	33.0	18.3	17.8	68.9	153.8	158.7	158.0	211.6	233.3	241.2	173.3	1520.0
25	644	74.9	33.9	27.9	66.2	144.2	141.2	162.1	206.6	161.9	243.2	325.0	252.6	1840.0
25	645	36.3	23.0	10.0	27.8	90.9	94.9	141.0	147.8	213.3	273.1	250.1	182.4	1490.0
25	646	57.6	48.6	30.6	38.9	119.8	144.9	141.5	146.8	130.6	184.6	132.5	109.6	1288.0
25	647	46.0	32.8	19.3	33.7	103.1	95.4	129.4	134.9	123.2	253.9	253.0	156.3	1380.0
25	648	93.1	39.2	18.3	13.3	69.6	118.7	123.9	142.1	122.3	161.5	145.0	67.7	1115.0
25	649	44.4	26.3	16.4	47.9	93.3	134.0	142.2	155.1	161.9	144.6	202.3	197.3	1364.0
25	650	72.0	37.6	32.7	36.6	74.7	95.3	89.7	107.6	101.1	179.1	210.3	148.2	1186.0
25	651	47.7	28.5	19.6	35.2	66.8	101.8	100.8	158.6	183.6	235.6	236.6	111.7	1329.0
25	652	64.0	43.2	23.0	37.3	118.0	93.1	52.7	50.5	109.4	150.6	187.3	80.3	1008.0
25	653	57.9	35.9	31.1	33.1	127.1	128.4	146.6	188.9	192.2	239.6	151.4	146.3	1478.0
25	654	74.9	32.7	29.5	36.2	119.7	134.0	107.7	169.4	133.3	178.5	269.6	91.3	1377.0
25	655	44.0	25.3	15.7	30.2	70.2	132.5	120.8	130.8	137.3	146.9	235.9	124.0	1213.0
25	656	43.0	28.6	21.8	45.1	74.5	125.4	114.7	151.3	131.2	165.9	222.0	103.6	1228.0
25	657	54.4	35.9	20.0	26.9	64.5	75.0	87.8	101.3	137.4	136.8	149.3	125.3	1014.0
25	658	48.0	31.6	12.9	66.5	121.5	153.7	143.6	162.3	132.5	179.6	160.6	118.9	1333.0
25	659	82.0	31.8	20.0	49.3	132.4	139.4	99.9	146.5	108.3	228.1	168.0	181.8	1386.0
25	660	43.5	21.1	17.4	21.4	70.0	114.7	111.5	163.9	145.0	205.9	174.7	170.7	1260.0
25	661	64.9	34.0	26.9	109.9	171.0	124.7	102.5	149.7	169.0	226.0	230.6	87.0	1498.0
25	662	29.0	17.8	14.8	19.0	65.3	97.7	60.6	66.4	131.1	200.7	175.3	38.0	916.0
25	663	34.7	22.3	14.6	31.1	77.1	108.6	78.0	103.9	125.8	168.6	167.2	144.9	1078.0
25	664	44.0	20.0	10.8	12.2	51.4	58.2	94.2	126.6	158.1	191.8	268.3	158.2	1193.0
25	665	82.5	34.3	24.9	24.3	85.2	121.9	92.1	128.7	168.4	181.5	123.3	97.6	1165.0
25	666	29.6	22.1	17.6	47.8	92.6	99.2	89.6	117.1	103.5	184.2	230.7	177.3	1213.0
25	667	42.5	36.1	29.2	28.8	61.9	84.3	108.1	99.2	112.7	122.9	113.5	63.8	903.0
25	668	43.3	24.1	20.7	28.3	134.7	118.2	122.8	105.8	113.5	180.3	167.1	89.9	1148.0
25	669	41.9	26.5	31.0	72.6	84.7	110.8	99.8	115.6	177.2	289.7	281.9	214.3	1547.0
25	670	101.6	41.4	27.7	42.1	95.0	121.6	138.8	107.5	154.4	215.1	236.4	123.6	1405.0
25	671	35.7	23.3	18.1	20.8	141.2	116.3	79.1	115.6	96.5	189.2	211.7	167.2	1214.0
25	672	104.1	45.2	32.1	35.2	94.7	87.8	109.5	124.3	145.0	172.0	225.0	259.2	1433.0
25	673	62.6	30.6	18.7	19.3	73.1	82.0	130.3	155.4	115.9	185.6	261.0	85.5	1221.0
25	674	27.4	13.6	10.9	20.8	79.4	95.1	115.1	158.7	174.9	219.3	224.2	331.6	1471.0
25	675	125.4	39.5	21.1	17.1	60.2	101.0	110.6	157.2	142.2	226.1	234.4	209.5	1443.0
25	676	38.9	28.5	22.7	35.7	111.7	133.3	151.4	153.4	167.2	205.6	313.9	156.3	1518.0
25	677	79.4	52.5	45.9	89.2	82.3	93.5	113.1	113.0	143.9	232.7	250.2	191.4	1487.0
25	678	49.0	26.6	12.6	25.4	73.4	81.5	130.4	127.4	123.6	181.5	188.0	151.2	1169.0
25	679	60.5	29.5	12.7	19.8	99.4	122.5	175.1	180.4	176.9	184.0	158.9	67.3	1286.0
25	680	57.8	29.9	18.2	29.5	79.9	133.9	128.5	181.7	131.9	207.9	271.7	105.8	1378.0
25	681	46.2	27.8	17.6	25.9	60.3	60.0	38.4	63.8	90.2	165.6	136.3	174.0	906.0
25	682	70.6	36.0	24.3	69.5	139.4	151.9	134.5	161.2	146.2	139.4	116.1	227.2	1415.0
25	683	105.5	53.4	37.8	73.1	100.6	135.2	143.1	117.2	143.1	196.6	335.6	129.2	1571.0
25	684	50.7	37.6	18.7	54.4	86.1	132.6	154.1	161.9	166.0	181.5	165.5	145.2	1355.0
25	685	54.9	28.2	16.4	29.5	95.8	137.1	163.6	163.0	192.2	225.7	225.4	129.1	1460.0
25	686	52.4	30.1	22.5	32.3	85.0	134.3	144.8	175.0	144.1	179.9	225.5	183.6	1409.0

25	687	82.1	41.3	19.0	17.4	62.0	122.8	130.7	145.9	155.0	185.5	176.4	106.7	1244.0
25	688	82.2	42.4	29.8	27.2	111.2	148.1	162.2	172.9	138.5	173.7	198.1	127.9	1413.0
25	689	55.8	34.6	20.4	16.5	67.3	86.4	66.1	74.8	152.8	150.3	143.4	96.8	965.0
25	690	51.5	26.2	18.5	17.7	69.5	76.6	99.4	124.7	123.0	165.0	137.7	153.4	1063.0
25	691	104.8	37.3	23.4	28.7	64.9	82.9	89.2	142.9	136.0	222.4	237.7	135.6	1306.0
25	692	49.4	22.6	9.0	20.1	56.1	66.9	103.9	164.2	204.0	243.4	165.8	235.7	1341.0
25	693	57.2	32.1	21.8	22.3	97.3	83.9	78.2	90.6	124.3	143.6	215.5	86.1	1053.0
25	694	49.2	37.7	27.4	27.0	69.4	111.3	109.4	117.8	135.2	201.9	239.0	133.9	1258.0
25	695	57.2	24.1	25.4	58.5	96.1	82.0	74.5	127.3	150.1	188.0	214.0	138.5	1235.0
25	696	59.1	22.5	15.0	23.5	72.4	111.0	85.1	103.1	150.8	261.4	209.0	169.2	1281.0
25	697	48.4	29.8	23.2	24.2	80.4	100.4	58.9	106.2	138.9	154.6	219.6	121.7	1106.0
25	698	36.7	20.5	16.0	12.2	76.6	61.4	58.4	92.6	101.2	213.0	225.6	165.9	1080.0
25	699	38.4	20.9	11.3	35.0	64.5	83.3	74.4	97.0	124.1	203.0	265.8	130.3	1147.0
25	700	53.3	29.7	20.0	55.8	79.3	97.0	129.9	150.4	140.6	231.2	192.6	222.8	1403.0

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MAXIMUM VOLUMES FOR PERIOD 7 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	259.2	57.0	45.9	109.9	171.0	167.7	175.1	206.6	223.5	289.7	382.6	331.6	382.6	1351.5	7174.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	24.8	10.4	6.9	8.5	51.4	51.1	38.4	50.5	90.2	122.9	113.5	38.0	6.9	196.7	4648.
STA 25 MONTH 1 MEAN	60.34	VARIANCE	960.70	STAN. DEV.	31.00										
STA 25 MONTH 2 MEAN	31.40	VARIANCE	96.56	STAN. DEV.	9.83										
STA 25 MONTH 3 MEAN	21.75	VARIANCE	66.69	STAN. DEV.	8.17										
STA 25 MONTH 4 MEAN	33.13	VARIANCE	371.63	STAN. DEV.	19.28										
STA 25 MONTH 5 MEAN	87.16	VARIANCE	648.25	STAN. DEV.	25.46										
STA 25 MONTH 6 MEAN	110.02	VARIANCE	826.71	STAN. DEV.	28.75										
STA 25 MONTH 7 MEAN	113.84	VARIANCE	1095.84	STAN. DEV.	33.10										
STA 25 MONTH 8 MEAN	133.82	VARIANCE	1292.37	STAN. DEV.	35.95										
STA 25 MONTH 9 MEAN	145.05	VARIANCE	1007.12	STAN. DEV.	31.74										
STA 25 MONTH 10 MEAN	193.12	VARIANCE	1641.99	STAN. DEV.	40.52										
STA 25 MONTH 11 MEAN	208.03	VARIANCE	3362.06	STAN. DEV.	57.98										
STA 25 MONTH 12 MEAN	141.26	VARIANCE	3589.45	STAN. DEV.	59.91										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 8

STA 25 MONTH 1	MEAN-0.006	STD DEVO.062
STA 25 MONTH 2	MEAN-0.001	STD DEVO.068
STA 25 MONTH 3	MEAN 0.001	STD DEVO.066
STA 25 MONTH 4	MEAN 0.002	STD DEVO.064
STA 25 MONTH 5	MEAN-0.002	STD DEVO.068
STA 25 MONTH 6	MEAN-0.001	STD DEVO.068
STA 25 MONTH 7	MEAN-0.001	STD DEVO.062
STA 25 MONTH 8	MEAN 0.007	STD DEVO.066
STA 25 MONTH 9	MEAN 0.000	STD DEVO.063
STA 25 MONTH 10	MEAN 0.005	STD DEVO.055
STA 25 MONTH 11	MEAN 0.001	STD DEVO.056
STA 25 MONTH 12	MEAN-0.004	STD DEVO.062

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	701	95.3	53.7	54.3	45.1	74.5	94.3	137.6	161.7	159.1	258.2	243.1	66.7	1444.0
25	702	35.5	31.1	15.5	20.4	72.3	92.1	122.5	114.8	95.6	129.9	233.8	169.4	1133.0
25	703	61.2	40.0	30.8	29.6	76.9	114.0	110.2	183.3	144.6	198.9	220.1	188.5	1398.0

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25	704	40.5	23.6	15.0	16.5	80.0	142.5	96.3	79.3	128.6	172.6	296.2	148.7	1240.0
25	705	49.6	32.9	18.9	12.9	67.0	94.5	79.5	133.7	132.1	214.3	300.1	195.8	1332.0
25	706	79.1	32.1	18.1	35.5	85.0	110.2	112.0	112.6	132.5	157.3	246.1	122.8	1244.0
25	707	40.7	31.3	20.0	19.9	70.9	125.1	127.2	137.4	173.6	207.4	239.7	175.9	1369.0
25	708	31.2	21.0	21.2	39.2	81.9	130.3	136.1	132.1	115.5	153.4	234.8	119.9	1215.0
25	709	91.7	36.4	21.0	33.4	105.5	147.5	151.4	114.0	99.0	129.1	151.4	158.7	1239.0
25	710	108.8	47.0	31.6	16.3	68.1	98.1	89.7	121.3	120.0	201.2	142.1	232.6	1277.0
25	711	104.7	40.2	25.2	81.2	198.5	130.1	175.7	205.3	212.3	317.6	168.4	107.8	1766.0
25	712	42.3	19.8	11.6	11.0	56.7	73.6	79.2	103.1	138.3	213.0	272.1	273.9	1295.0
25	713	75.3	35.4	39.1	64.1	91.4	94.6	79.6	118.2	130.1	128.1	213.5	169.9	1238.0
25	714	95.5	51.0	33.4	35.6	74.5	90.0	94.1	91.2	164.0	187.3	211.1	158.7	1287.0
25	715	71.5	31.5	23.6	61.8	109.8	107.2	124.4	139.3	197.9	242.8	246.0	159.4	1515.0
25	716	51.6	27.1	20.1	14.6	64.0	85.0	53.8	110.5	130.6	199.6	215.1	88.0	1061.0
25	717	56.7	34.8	34.3	41.7	70.3	108.6	110.4	141.7	158.4	158.8	208.3	157.2	1281.0
25	718	57.2	37.7	21.0	33.1	92.6	82.7	131.8	178.8	168.6	206.2	210.7	257.2	1479.0
25	719	109.1	29.9	20.1	32.5	101.9	163.6	167.3	153.8	137.0	188.6	276.4	169.3	1549.0
25	720	63.3	32.1	31.1	40.2	102.1	96.7	132.9	143.5	136.4	202.0	185.0	168.5	1332.0
25	721	52.0	27.1	17.8	50.4	170.3	171.7	183.1	190.4	161.9	210.1	207.0	106.9	1548.0
25	722	44.3	27.0	22.7	35.0	78.8	69.2	94.2	150.5	107.0	181.6	133.2	181.5	1125.0
25	723	39.1	28.1	20.2	27.2	86.9	95.5	79.3	69.8	100.6	176.2	213.9	111.7	1049.0
25	724	44.4	24.1	18.5	24.6	83.7	107.9	113.5	111.4	132.3	146.5	229.1	108.0	1143.0
25	725	51.1	23.8	17.8	32.1	64.2	98.9	90.7	133.9	102.6	148.4	257.7	133.8	1156.0
25	726	40.8	27.5	18.7	35.7	100.2	116.4	133.3	150.8	139.8	259.1	264.6	127.2	1414.0
25	727	64.3	33.7	31.4	34.4	71.6	87.1	119.9	162.3	163.6	247.8	228.7	191.2	1436.0
25	728	59.5	46.9	43.6	57.3	93.0	119.7	99.4	95.5	115.7	203.3	221.0	119.9	1275.0
25	729	59.0	38.2	30.7	40.2	106.8	103.3	83.4	78.4	126.8	172.5	204.6	110.8	1154.0
25	730	44.9	36.6	18.6	11.2	48.3	66.9	60.7	105.8	155.1	191.6	106.3	96.7	944.0
25	731	35.6	21.8	14.4	26.1	88.5	98.5	145.3	163.5	172.9	208.4	212.5	125.7	1313.0
25	732	46.2	33.7	28.7	39.0	92.6	125.2	98.4	87.1	115.9	212.0	161.6	123.8	1165.0
25	733	36.1	18.3	12.4	43.5	114.0	88.8	72.8	118.4	145.3	177.4	181.1	163.9	1171.0
25	734	99.9	44.6	24.0	33.0	71.9	84.3	99.4	123.2	103.7	130.7	193.8	150.4	1159.0
25	735	65.3	36.1	20.9	30.5	85.5	103.8	83.1	104.9	140.3	199.8	299.3	100.7	1271.0
25	736	33.1	29.2	16.3	17.2	58.8	79.4	84.4	144.1	168.9	256.5	213.7	154.2	1255.0
25	737	34.8	24.4	24.2	42.4	73.2	116.4	127.9	150.2	205.5	203.9	186.1	121.4	1309.0
25	738	48.7	26.9	19.6	40.8	69.9	96.3	92.2	146.9	130.7	196.6	176.2	81.6	1128.0
25	739	37.3	20.0	17.1	22.8	120.2	143.9	142.9	161.3	135.7	167.3	125.3	177.7	1271.0
25	740	63.1	39.3	26.5	35.3	114.2	128.0	96.6	113.1	120.7	125.9	205.2	244.5	1311.0
25	741	59.1	27.3	21.7	86.4	128.3	165.8	110.8	77.9	112.2	179.2	200.5	96.1	1264.0
25	742	33.4	24.3	10.6	18.4	70.4	90.4	88.5	88.9	96.8	193.7	237.9	107.4	1059.0
25	743	65.7	24.6	19.4	19.2	85.3	111.7	153.7	164.3	180.6	216.3	148.9	122.5	1312.0
25	744	116.7	58.8	36.5	29.9	80.4	112.1	142.2	155.0	164.1	168.1	218.4	233.2	1514.0
25	745	47.5	19.3	13.2	11.1	72.5	129.3	100.1	151.4	183.7	241.4	194.4	123.7	1286.0
25	746	63.6	28.3	25.0	43.3	70.0	88.0	117.9	149.9	160.0	171.2	187.8	78.1	1183.0
25	747	29.6	17.3	9.6	17.6	62.6	79.5	133.1	182.7	173.0	271.2	270.1	164.5	1413.0
25	748	88.7	34.8	18.1	36.0	73.4	76.3	89.3	128.2	121.6	174.7	108.1	69.3	1018.0
25	749	35.6	28.7	25.3	58.6	80.3	76.2	83.2	89.1	125.0	237.5	224.1	91.8	1155.0
25	750	51.0	21.7	14.6	24.8	61.8	143.9	164.4	157.0	137.7	234.5	226.6	113.4	1352.0
25	751	35.5	19.8	19.3	23.9	86.7	83.7	93.8	143.1	152.8	172.5	100.5	120.8	1054.0
25	752	72.3	26.9	18.8	29.8	86.7	93.9	108.4	139.3	177.1	254.6	329.3	404.1	1741.0
25	753	150.2	47.8	51.8	102.5	89.3	102.3	108.5	145.1	174.3	212.9	233.1	278.4	1695.0
25	754	150.6	43.7	44.4	39.3	73.1	109.6	121.6	147.9	124.4	150.7	190.1	88.5	1285.0
25	755	38.0	27.8	14.6	41.0	98.6	154.6	138.4	90.3	131.0	203.1	206.1	143.4	1287.0
25	756	52.5	34.9	22.1	23.9	58.4	73.5	108.0	131.6	155.5	175.7	190.1	116.1	1141.0
25	757	32.8	19.3	14.6	20.4	79.2	133.0	153.5	130.0	152.8	201.7	266.1	173.5	1376.0

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25	758	41.6	27.0	21.3	46.4	74.1	86.0	115.5	144.4	143.0	202.0	219.4	80.1	1200.0
25	759	53.9	35.4	20.3	66.6	128.4	156.8	122.0	141.5	134.5	202.8	183.7	141.2	1387.0
25	760	55.8	32.9	15.2	26.6	104.4	105.1	125.6	124.4	133.7	230.3	187.6	101.0	1243.0
25	761	46.3	27.2	25.4	18.3	92.5	80.8	118.6	103.0	143.7	153.3	165.5	182.4	1155.0
25	762	102.1	45.8	30.0	57.2	163.8	124.6	141.6	156.8	156.7	176.6	187.2	72.6	1417.0
25	763	40.9	18.8	18.0	14.0	61.4	59.8	65.5	64.7	125.3	194.6	279.1	155.7	1098.0
25	764	53.3	48.0	30.0	45.6	92.9	146.7	135.6	127.2	155.5	190.7	183.9	129.9	1340.0
25	765	66.9	45.5	21.5	35.9	76.7	114.7	176.2	166.7	146.0	201.0	169.7	154.6	1378.0
25	766	67.1	41.5	33.3	78.9	101.3	117.2	134.1	137.4	150.7	195.9	199.2	115.7	1372.0
25	767	41.7	17.3	15.8	16.8	72.1	118.3	112.6	168.2	185.5	186.4	252.8	185.3	1373.0
25	768	64.4	23.1	16.3	45.3	81.3	179.4	150.1	135.8	158.4	190.4	187.6	123.9	1354.0
25	769	43.5	25.4	19.4	15.3	56.8	80.1	105.4	127.7	118.3	171.4	159.8	125.1	1047.0
25	770	77.4	40.9	29.3	47.1	115.7	171.1	158.4	207.4	204.8	172.4	257.8	176.8	1658.0
25	771	81.5	38.5	26.0	51.2	102.5	145.7	134.1	132.2	177.1	179.6	159.2	55.3	1282.0
25	772	42.7	27.7	17.6	20.4	110.5	107.7	108.4	153.5	132.1	194.2	154.8	56.8	1127.0
25	773	30.3	21.1	12.0	13.0	69.7	161.5	129.9	133.0	154.6	184.7	182.9	94.7	1188.0
25	774	43.4	18.6	17.4	22.2	91.0	127.3	80.3	161.9	203.4	170.6	138.9	72.9	1147.0
25	775	34.9	35.9	18.1	29.2	85.6	147.2	115.7	149.5	136.0	177.3	178.4	111.2	1219.0
25	776	34.7	29.6	17.2	13.8	59.4	105.3	105.4	153.1	151.0	169.5	245.3	179.5	1264.0
25	777	66.2	51.8	22.0	42.8	122.2	169.8	174.8	165.4	127.1	193.4	257.2	111.4	1503.0
25	778	46.4	38.2	25.3	30.7	99.5	86.4	122.2	137.8	129.4	251.8	292.6	110.0	1370.0
25	779	86.6	43.0	37.0	39.5	77.4	73.5	41.0	97.7	121.2	175.4	152.6	49.8	995.0
25	780	22.1	10.3	5.9	14.2	111.0	125.9	159.2	202.6	188.0	191.7	178.7	185.0	1395.0
25	781	66.9	42.2	26.7	20.7	70.9	85.9	67.3	57.4	91.0	166.6	171.7	81.0	949.0
25	782	37.1	18.2	16.7	24.9	67.9	92.4	93.3	131.2	94.0	186.9	326.1	409.4	1497.0
25	783	69.2	31.7	32.2	34.8	87.7	116.2	118.4	163.2	167.9	209.2	237.3	131.6	1399.0
25	784	48.1	31.7	15.8	26.4	80.7	113.5	164.0	197.7	173.8	197.7	178.7	138.9	1369.0
25	785	56.1	26.3	15.4	21.8	98.7	117.6	75.2	91.5	120.4	239.0	356.6	251.0	1469.0
25	786	114.4	47.3	25.0	24.8	55.3	76.2	63.6	113.2	177.1	295.6	170.5	115.9	1278.0
25	787	61.1	34.9	15.4	22.5	76.4	98.4	78.8	84.9	167.5	140.3	122.2	36.0	937.0
25	788	33.9	19.4	12.8	32.8	106.8	123.3	130.5	164.2	179.7	182.6	162.8	136.2	1286.0
25	789	46.3	34.8	17.3	25.6	143.4	152.5	164.3	175.2	161.3	183.0	194.4	195.1	1492.0
25	790	81.2	35.2	26.1	22.1	94.9	155.4	155.0	171.6	174.4	168.9	249.3	197.4	1530.0
25	791	74.4	27.4	21.6	32.9	112.4	92.9	89.8	130.1	154.4	199.3	157.8	94.8	1187.0
25	792	96.3	33.6	17.5	36.1	87.1	84.2	70.4	81.1	106.3	178.0	175.9	101.0	1066.0
25	793	42.4	28.9	17.7	55.0	127.4	168.2	178.8	183.7	129.1	219.6	187.0	78.1	1416.0
25	794	54.8	33.1	19.0	24.1	103.9	112.9	126.7	182.1	185.6	224.7	293.8	222.0	1584.0
25	795	66.5	25.4	15.9	23.9	57.4	72.8	115.1	166.5	174.3	189.9	174.4	114.5	1197.0
25	796	48.7	28.8	17.7	29.2	78.0	125.1	103.1	88.0	140.7	175.2	258.8	94.0	1188.0
25	797	81.6	29.5	10.3	15.5	72.3	93.5	131.5	150.5	167.1	242.4	263.8	177.8	1436.0
25	798	99.6	37.6	22.1	51.4	91.8	142.4	96.1	123.3	120.6	135.9	161.1	90.9	1173.0
25	799	49.8	23.6	14.0	14.2	73.4	111.1	107.6	125.5	155.7	239.2	275.9	187.6	1379.0
25	800	79.6	35.3	19.0	17.0	69.4	75.0	102.0	134.8	188.8	275.6	204.4	202.7	1404.0

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MAXIMUM VOLUMES FOR PERIOD 8 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	150.6	58.8	54.3	102.5	198.5	179.4	183.1	207.4	212.3	317.6	356.6	409.4	409.4	1454.6	6863.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	22.1	10.3	5.9	11.0	48.3	59.8	41.0	57.4	91.0	125.9	100.5	36.0	5.9	202.9	4802.
STA	25	MONTH	1	MEAN	59.55	VARIANCE	682.18	STAN. DEV.	26.12						
STA	25	MONTH	2	MEAN	31.34	VARIANCE	98.09	STAN. DEV.	9.90						

STA 25 MONTH 3	MEAN	21.83	VARIANCE	77.20	STAN. DEV.	8.79
STA 25 MONTH 4	MEAN	33.19	VARIANCE	302.93	STAN. DEV.	17.40
STA 25 MONTH 5	MEAN	87.30	VARIANCE	692.11	STAN. DEV.	26.31
STA 25 MONTH 6	MEAN	110.31	VARIANCE	922.32	STAN. DEV.	30.37
STA 25 MONTH 7	MEAN	113.89	VARIANCE	1082.41	STAN. DEV.	32.90
STA 25 MONTH 8	MEAN	133.81	VARIANCE	1267.47	STAN. DEV.	35.60
STA 25 MONTH 9	MEAN	144.59	VARIANCE	974.60	STAN. DEV.	31.22
STA 25 MONTH 10	MEAN	192.71	VARIANCE	1645.45	STAN. DEV.	40.56
STA 25 MONTH 11	MEAN	207.59	VARIANCE	3016.86	STAN. DEV.	54.93
STA 25 MONTH 12	MEAN	141.69	VARIANCE	4136.47	STAN. DEV.	64.32

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 9

STA 25	MONTH 1	MEAN 0.006	STD DEVO.063
STA 25	MONTH 2	MEAN 0.004	STD DEVO.065
STA 25	MONTH 3	MEAN 0.004	STD DEVO.067
STA 25	MONTH 4	MEAN-0.002	STD DEVO.066
STA 25	MONTH 5	MEAN-0.007	STD DEVO.062
STA 25	MONTH 6	MEAN-0.002	STD DEVO.069
STA 25	MONTH 7	MEAN-0.001	STD DEVO.066
STA 25	MONTH 8	MEAN-0.002	STD DEVO.065
STA 25	MONTH 9	MEAN 0.003	STD DEVO.066
STA 25	MONTH 10	MEAN 0.011	STD DEVO.055
STA 25	MONTH 11	MEAN 0.005	STD DEVO.058
STA 25	MONTH 12	MEAN-0.008	STD DEVO.058

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	801	70.6	32.5	17.7	42.6	113.1	120.2	85.6	102.2	114.7	239.1	313.9	182.1	1436.0
25	802	155.5	48.7	46.1	72.4	132.3	126.2	116.5	149.1	163.2	234.0	153.4	57.7	1454.0
25	803	32.7	26.4	15.6	24.8	95.0	148.4	157.2	103.8	135.7	169.5	123.6	111.2	1145.0
25	804	43.6	27.1	18.7	41.1	111.2	125.9	138.6	146.8	173.3	292.5	224.3	139.6	1483.0
25	805	43.4	26.1	21.8	32.2	94.8	134.5	142.3	164.3	183.7	198.3	341.9	268.0	1650.0
25	806	51.3	37.3	26.6	39.0	77.5	77.5	80.2	120.9	140.6	177.8	206.3	172.1	1207.0
25	807	218.0	50.6	34.4	54.5	84.2	135.1	150.3	147.9	117.1	189.5	234.0	189.4	1604.0
25	808	82.2	39.0	20.2	30.5	50.6	91.4	84.7	149.2	127.2	181.6	154.6	228.4	1239.0
25	809	36.4	19.2	11.7	16.9	95.1	142.8	151.5	172.2	130.4	182.6	106.9	164.8	1231.0
25	810	84.8	33.0	20.4	37.2	72.6	107.5	123.3	156.5	159.7	231.6	165.7	142.5	1337.0
25	811	62.7	27.9	14.6	21.4	133.8	155.5	127.5	199.9	184.5	221.5	242.4	184.7	1577.0
25	812	53.4	36.3	32.0	63.1	113.8	160.1	190.1	175.9	192.6	273.3	325.0	57.1	1672.0
25	813	36.2	14.0	13.6	27.0	70.5	136.7	121.7	201.7	209.9	225.6	250.6	132.4	1441.0
25	814	135.0	42.6	28.0	58.3	125.7	135.7	119.5	122.3	138.0	137.1	169.0	108.2	1319.0
25	815	62.3	29.4	21.3	40.5	74.6	126.9	111.8	113.1	182.1	217.8	221.2	235.3	1436.0
25	816	66.8	24.6	11.0	22.2	95.4	118.9	119.2	113.7	120.8	148.4	130.8	118.4	1090.0
25	817	46.3	25.7	23.9	29.9	102.8	133.2	126.7	159.9	113.0	196.4	260.9	168.7	1388.0
25	818	64.2	41.5	25.9	23.7	74.6	89.1	90.2	80.5	127.9	191.5	210.6	106.3	1127.0
25	819	46.6	28.4	21.0	17.0	76.4	96.0	141.1	187.3	186.7	218.9	183.8	174.9	1378.0
25	820	102.3	33.8	24.0	52.3	73.9	60.1	40.9	80.4	103.9	175.4	144.8	164.9	1056.0
25	821	71.8	43.5	26.2	68.2	108.9	145.3	170.8	197.0	193.6	158.8	208.8	190.1	1583.0
25	822	51.0	38.1	24.4	55.3	110.9	101.5	151.8	138.2	139.7	238.7	164.9	111.6	1326.0
25	823	43.2	24.1	18.3	18.8	101.9	111.0	104.1	127.5	109.6	215.0	194.0	97.0	1164.0
25	824	50.2	32.6	26.0	21.2	95.8	106.1	128.5	127.5	126.4	206.0	173.3	144.4	1237.0
25	825	71.3	30.1	19.0	17.1	61.0	89.6	85.9	129.0	102.2	153.8	187.4	112.3	1058.0
25	826	56.4	19.2	24.1	39.4	118.6	130.5	132.1	125.4	135.0	160.1	181.3	220.4	1340.0
25	827	48.4	27.0	23.7	52.9	109.9	91.7	124.6	96.3	165.0	161.5	234.9	84.7	1222.0
25	828	31.6	24.3	14.7	19.9	88.2	105.3	145.0	150.1	160.2	173.0	231.0	154.1	1297.0

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25	829	55.7	35.9	40.4	72.8	94.8	95.0	128.7	171.1	175.6	212.2	157.6	49.7	1291.0
25	830	32.8	24.3	14.5	18.3	76.2	65.3	54.1	112.6	144.5	166.9	98.4	90.7	899.0
25	831	43.0	24.9	19.5	23.2	82.8	77.1	86.4	113.0	124.3	164.2	204.9	93.6	1056.0
25	832	30.6	14.9	8.6	9.7	51.9	97.0	112.7	160.4	150.4	237.7	230.0	211.0	1316.0
25	833	53.9	32.8	18.1	31.2	97.7	88.7	109.8	167.9	143.1	133.0	159.0	48.4	1084.0
25	834	40.9	28.9	25.8	31.0	75.4	87.3	98.6	85.4	132.7	205.3	239.1	83.9	1134.0
25	835	73.4	41.6	23.7	16.9	67.8	107.6	80.1	92.8	86.2	121.7	123.7	114.2	951.0
25	836	41.4	31.6	20.2	69.4	96.3	118.5	81.8	91.7	128.5	160.9	152.5	99.5	1092.0
25	837	46.4	43.9	39.2	27.4	84.5	94.9	94.3	172.0	211.0	238.7	278.7	235.9	1566.0
25	838	69.8	34.8	24.7	33.8	94.3	132.7	78.6	140.2	157.7	209.6	190.9	69.0	1238.0
25	839	39.9	28.0	16.0	78.8	96.0	80.0	100.2	77.5	135.7	192.2	227.7	254.7	1327.0
25	840	88.2	40.2	24.7	37.3	70.4	108.7	105.5	141.6	131.9	208.2	316.5	130.5	1404.0
25	841	44.6	24.8	13.8	22.3	65.5	130.0	135.8	110.6	139.7	228.7	156.8	43.4	1118.0
25	842	26.3	17.5	13.1	24.5	73.0	111.0	140.1	179.5	174.1	210.3	384.4	249.0	1601.0
25	843	55.6	25.2	12.5	14.8	77.4	106.2	138.8	145.8	172.7	212.9	271.8	68.3	1303.0
25	844	48.2	33.0	23.1	47.6	108.6	148.0	125.1	165.1	159.1	262.9	230.7	204.6	1557.0
25	845	154.6	55.6	49.4	26.9	72.6	109.9	91.4	135.2	170.8	218.5	254.2	102.8	1442.0
25	846	40.7	17.6	14.0	19.4	62.9	127.5	103.3	111.0	133.6	178.6	212.4	146.1	1167.0
25	847	45.5	17.4	12.1	36.4	95.2	184.5	153.0	178.8	148.0	163.9	133.5	173.6	1341.0
25	848	52.3	27.4	19.0	25.4	106.0	119.8	162.1	137.0	160.6	237.7	178.8	115.1	1341.0
25	849	48.0	26.7	17.6	14.3	53.0	51.0	58.8	63.5	115.3	136.6	222.8	165.0	973.0
25	850	59.5	32.5	30.8	56.7	123.7	123.2	134.3	144.7	107.5	127.4	271.2	232.3	1445.0
25	851	129.6	45.3	38.0	36.7	107.1	135.7	86.4	127.9	143.9	268.1	202.8	124.4	1446.0
25	852	78.9	28.5	26.7	25.8	100.8	148.0	132.3	164.4	142.1	167.0	207.7	130.4	1353.0
25	853	44.2	23.3	17.3	33.5	108.5	162.5	132.4	187.2	176.8	209.7	198.9	129.2	1423.0
25	854	50.6	32.3	21.5	29.3	108.0	138.8	151.4	147.3	140.7	210.1	249.5	199.5	1479.0
25	855	76.4	26.0	13.4	16.3	96.4	124.0	120.8	153.1	143.4	174.1	172.7	229.0	1344.0
25	856	88.4	40.1	22.0	54.4	131.9	163.5	146.4	137.8	133.9	190.1	194.9	139.6	1442.0
25	857	63.5	29.7	14.2	20.9	69.9	71.7	63.1	143.0	113.2	148.4	159.8	133.4	1030.0
25	858	42.2	27.1	14.1	21.4	63.2	100.9	109.0	116.2	124.1	142.7	209.5	259.1	1228.0
25	859	58.1	30.1	18.7	16.6	64.9	89.0	128.2	138.1	169.1	214.4	204.3	116.7	1248.0
25	860	34.3	11.9	10.6	10.5	54.3	101.8	149.2	203.0	196.8	170.5	290.8	118.9	1353.0
25	861	50.2	29.6	16.5	39.8	68.1	81.8	77.0	110.6	105.0	200.2	154.9	131.8	1066.0
25	862	85.4	40.8	22.9	22.3	89.0	105.8	96.6	126.0	149.9	212.9	201.5	142.8	1296.0
25	863	35.7	34.2	29.4	32.3	64.2	76.9	114.0	152.4	146.7	201.7	206.6	147.8	1242.0
25	864	32.6	20.4	14.2	19.8	83.4	81.9	83.5	142.4	189.1	190.7	229.2	104.0	1191.0
25	865	49.0	32.8	18.5	28.4	79.4	64.3	94.8	135.5	118.3	205.6	191.2	73.6	1090.0
25	866	33.9	24.4	10.8	28.6	56.1	69.4	86.5	85.5	153.4	201.0	227.6	71.5	1049.0
25	867	32.9	16.1	16.2	13.7	62.2	74.3	80.2	109.4	147.6	227.3	199.0	131.3	1109.0
25	868	49.3	29.0	26.7	21.9	72.1	124.1	126.6	138.3	172.9	182.3	276.5	214.0	1434.0
25	869	143.6	60.6	37.8	26.6	76.1	133.2	145.7	159.5	186.6	214.2	133.6	91.7	1411.0
25	870	68.7	27.2	16.9	23.2	73.1	118.2	98.1	75.7	97.5	204.7	229.5	149.4	1182.0
25	871	80.5	42.6	24.8	27.5	92.0	105.5	171.4	153.8	157.4	203.1	250.1	82.5	1390.0
25	872	37.0	22.5	13.0	28.2	120.6	91.0	62.7	104.2	124.7	240.1	214.2	120.7	1180.0
25	873	59.4	28.9	12.8	21.6	76.7	85.3	124.8	130.6	159.1	248.2	261.1	191.8	1401.0
25	874	47.9	25.0	19.8	27.0	83.1	104.2	93.7	117.4	119.6	214.1	188.6	95.4	1136.0
25	875	60.1	31.9	17.5	23.0	102.6	118.1	117.6	164.6	157.9	213.0	238.7	52.2	1299.0
25	876	35.2	33.0	25.2	27.5	104.0	123.6	108.9	99.4	115.5	205.8	184.6	249.9	1314.0
25	877	61.6	29.6	21.1	45.2	125.2	137.1	87.2	72.2	94.3	144.7	209.0	262.2	1289.0
25	878	98.7	41.2	17.2	23.2	80.4	92.9	110.5	111.8	147.7	139.1	271.0	227.0	1361.0
25	879	64.5	32.6	32.7	115.5	103.1	168.7	188.6	202.9	225.9	166.2	171.1	104.5	1576.0
25	880	31.6	17.5	9.2	12.8	60.2	85.9	94.4	129.5	155.5	229.4	327.5	162.5	1316.0
25	881	54.3	47.0	36.9	34.3	73.6	83.4	107.2	122.5	103.2	196.8	231.4	236.1	1326.0
25	882	131.3	44.2	27.5	24.8	71.6	95.6	79.1	149.8	141.9	191.9	219.0	180.9	1359.0

25	883	48.5	32.7	29.7	43.7	81.5	115.4	119.8	184.1	180.5	217.9	224.6	124.5	1403.0
25	884	42.3	29.5	13.7	18.6	68.9	67.4	106.1	126.4	149.5	194.4	153.3	165.1	1134.0
25	885	68.1	47.9	32.2	21.9	85.9	105.6	125.8	154.4	128.5	194.4	220.1	141.5	1326.0
25	886	73.6	31.5	22.2	36.1	66.1	127.7	165.6	173.5	164.0	197.8	311.5	235.3	1604.0
25	887	38.3	25.2	18.5	39.1	142.8	151.9	123.8	124.1	139.9	231.9	233.6	157.0	1426.0
25	888	51.7	41.6	28.1	46.1	77.0	127.4	125.9	131.0	150.9	173.1	224.5	121.0	1298.0
25	889	41.7	25.9	24.3	94.0	157.6	174.4	164.7	159.6	160.7	191.5	172.2	113.1	1481.0
25	890	46.2	34.7	24.4	26.3	58.1	98.2	141.7	105.2	138.5	133.6	228.2	75.9	1111.0
25	891	47.1	30.7	19.9	33.0	75.3	83.7	59.8	74.1	123.6	186.6	172.6	110.3	1018.0
25	892	38.8	28.3	18.1	30.3	84.8	107.9	94.1	118.1	113.1	204.1	173.8	137.4	1148.0
25	893	37.1	26.7	20.0	15.3	74.3	89.3	119.6	91.1	113.5	221.7	199.9	93.6	1103.0
25	894	47.6	29.3	22.5	40.9	91.4	123.4	130.8	134.5	180.9	223.7	193.1	173.4	1392.0
25	895	58.4	42.9	26.8	22.6	69.4	116.7	148.8	165.6	183.3	206.3	251.7	139.9	1433.0
25	896	119.8	55.5	40.9	40.2	98.0	96.5	80.3	95.7	143.1	192.6	181.4	157.5	1301.0
25	897	77.8	43.5	29.5	52.2	83.2	86.7	67.6	107.1	126.5	184.0	172.8	113.0	1144.0
25	898	79.8	30.1	12.2	8.9	57.7	74.5	102.4	151.7	148.4	111.8	151.7	78.6	1009.0
25	899	36.9	23.1	17.2	31.9	76.2	137.4	144.4	169.8	161.6	196.6	191.1	114.6	1301.0
25	900	65.4	42.2	28.9	39.0	102.9	94.9	71.6	93.1	146.4	150.1	178.6	75.2	1088.0

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MAXIMUM VOLUMES FOR PERIOD 9 OF 100 YEARS OF SYNTHETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	218.0	60.6	49.4	115.5	157.6	184.5	190.1	203.0	225.9	292.5	384.4	268.0	384.4	1337.4	7029.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	26.3	11.9	8.6	8.9	50.6	51.0	40.9	63.5	86.2	111.8	98.4	43.4	8.6	197.7	4596.
STA 25 MONTH 1 MEAN	60.73	VARIANCE	1029.64	STAN. DEV.	32.09										
STA 25 MONTH 2 MEAN	31.27	VARIANCE	97.73	STAN. DEV.	9.89										
STA 25 MONTH 3 MEAN	21.71	VARIANCE	71.16	STAN. DEV.	8.44										
STA 25 MONTH 4 MEAN	33.12	VARIANCE	343.43	STAN. DEV.	18.53										
STA 25 MONTH 5 MEAN	86.58	VARIANCE	552.12	STAN. DEV.	23.50										
STA 25 MONTH 6 MEAN	110.08	VARIANCE	880.95	STAN. DEV.	29.68										
STA 25 MONTH 7 MEAN	114.25	VARIANCE	1061.14	STAN. DEV.	32.58										
STA 25 MONTH 8 MEAN	134.14	VARIANCE	1251.78	STAN. DEV.	35.38										
STA 25 MONTH 9 MEAN	145.00	VARIANCE	1003.29	STAN. DEV.	31.67										
STA 25 MONTH 10 MEAN	193.88	VARIANCE	1562.76	STAN. DEV.	39.53										
STA 25 MONTH 11 MEAN	207.98	VARIANCE	3166.89	STAN. DEV.	56.28										
STA 25 MONTH 12 MEAN	142.58	VARIANCE	3348.54	STAN. DEV.	57.87										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 10

STA 25 MONTH 1	MEAN-0.005	STD DEVO.069
STA 25 MONTH 2	MEAN-0.004	STD DEVO.063
STA 25 MONTH 3	MEAN 0.000	STD DEVO.067
STA 25 MONTH 4	MEAN 0.001	STD DEVO.065
STA 25 MONTH 5	MEAN 0.003	STD DEVO.069
STA 25 MONTH 6	MEAN 0.003	STD DEVO.063
STA 25 MONTH 7	MEAN 0.011	STD DEVO.066
STA 25 MONTH 8	MEAN 0.008	STD DEVO.065
STA 25 MONTH 9	MEAN 0.010	STD DEVO.053
STA 25 MONTH 10	MEAN-0.004	STD DEVO.061
STA 25 MONTH 11	MEAN-0.008	STD DEVO.066
STA 25 MONTH 12	MEAN 0.001	STD DEVO.065

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
25	901	32.3	19.6	20.4	42.2	66.6	73.4	102.2	133.7	132.0	182.1	229.6	220.4	1254.0
25	902	91.7	34.4	22.7	20.3	65.6	96.1	104.5	84.7	88.7	189.6	219.1	153.9	1173.0
25	903	67.6	31.6	21.2	29.8	78.4	81.2	87.2	123.0	144.0	250.5	182.3	72.0	1169.0
25	904	63.0	29.0	15.7	14.2	64.0	86.0	129.9	164.7	195.1	204.7	225.5	68.0	1260.0
25	905	44.6	38.5	28.4	21.4	86.6	116.4	125.0	187.1	162.3	189.3	196.7	118.1	1313.0
25	906	47.2	30.8	24.4	18.0	71.4	87.4	127.8	122.8	146.1	177.9	157.6	90.2	1101.0
25	907	36.6	28.4	17.7	63.1	116.0	130.8	134.2	125.4	123.9	140.1	232.8	139.0	1288.0
25	908	78.1	38.7	25.4	55.8	99.6	90.1	92.0	100.3	85.6	197.8	295.6	120.6	1281.0
25	909	41.8	30.7	33.1	50.7	127.0	93.6	52.4	74.4	115.3	186.3	169.1	71.7	1046.0
25	910	47.2	18.1	13.0	19.2	68.8	86.2	71.8	67.9	128.6	210.2	182.4	169.0	1082.0
25	911	39.3	28.7	15.6	32.2	85.7	147.3	138.2	170.5	168.1	160.3	192.8	265.5	1445.0
25	912	199.7	49.9	27.3	30.9	87.7	135.3	130.4	155.2	129.7	209.9	291.3	95.0	1542.0
25	913	30.3	18.8	9.3	22.8	99.3	92.0	130.2	173.9	185.9	192.7	198.3	158.3	1311.0
25	914	47.1	36.5	27.1	18.5	67.1	110.8	128.5	152.6	132.1	189.4	156.5	61.7	1128.0
25	915	34.1	16.4	12.3	14.4	62.2	126.6	163.9	172.8	208.4	240.5	239.8	203.9	1494.0
25	916	58.1	26.1	20.5	19.2	60.1	87.7	111.0	108.9	126.6	124.3	139.1	85.2	966.0
25	917	61.1	42.3	35.9	25.8	61.5	84.7	74.7	103.5	164.5	203.6	168.1	133.6	1160.0
25	918	36.5	22.7	16.3	13.6	106.0	151.0	122.9	121.0	167.0	207.3	188.7	76.9	1231.0
25	919	35.7	31.4	19.0	33.1	67.0	93.4	127.3	148.2	133.4	120.2	184.8	175.5	1167.0
25	920	42.1	27.3	19.1	29.1	71.1	102.1	118.5	166.1	191.3	269.7	436.2	238.3	1709.0
25	921	83.3	55.8	49.2	30.0	76.0	100.6	123.3	164.4	164.0	217.7	327.3	262.7	1654.0
25	922	72.8	50.9	30.0	22.8	83.2	112.8	124.9	112.6	109.3	188.6	165.6	91.3	1166.0
25	923	55.7	25.3	22.8	35.6	118.7	120.7	61.1	97.2	135.9	190.9	210.6	121.8	1198.0
25	924	68.1	34.3	19.7	13.3	60.2	105.8	113.3	146.1	133.6	189.8	191.2	66.8	1142.0
25	925	35.5	24.3	15.5	26.2	101.4	142.1	98.8	132.8	145.6	232.3	243.6	87.0	1286.0
25	926	47.7	33.3	27.1	20.5	65.7	108.7	123.0	134.0	150.7	206.8	159.2	148.7	1226.0
25	927	76.1	33.4	32.6	57.7	122.4	105.7	113.0	118.2	146.0	180.9	209.4	131.6	1327.0
25	928	60.5	23.7	17.3	42.5	79.1	116.5	99.9	115.8	163.2	182.0	174.5	115.1	1190.0
25	929	49.4	39.3	18.4	44.1	67.5	118.4	85.1	126.0	110.4	170.6	242.1	217.1	1287.0
25	930	95.1	41.0	32.5	97.6	95.8	131.0	130.4	147.2	134.3	187.8	150.6	107.4	1351.0
25	931	33.9	29.4	13.6	16.5	54.7	75.3	57.2	101.5	135.1	236.8	228.3	123.6	1106.0
25	932	140.2	45.9	32.8	37.8	116.8	121.8	98.4	136.7	139.0	182.3	200.7	163.4	1416.0
25	933	113.9	33.9	24.2	23.4	85.3	176.4	135.5	134.4	149.0	173.0	220.0	156.0	1424.0
25	934	88.6	46.9	41.8	39.5	87.4	122.6	110.4	135.9	144.2	193.1	190.1	97.1	1298.0
25	935	30.1	24.6	13.7	21.9	89.5	103.3	147.5	178.8	150.8	234.1	258.1	146.4	1399.0
25	936	34.9	23.1	21.5	22.0	139.7	127.6	99.1	135.8	137.1	184.0	195.5	100.7	1222.0
25	937	44.7	30.9	14.6	13.2	64.6	103.4	109.7	104.2	123.2	165.2	194.2	188.4	1156.0
25	938	84.7	42.2	30.8	55.2	144.5	143.8	188.1	197.1	148.0	242.5	254.5	187.3	1720.0
25	939	71.5	37.1	29.4	40.2	111.8	118.5	102.6	158.3	135.1	166.9	130.4	120.6	1222.0
25	940	55.8	30.4	17.5	57.1	84.8	103.5	134.5	126.1	145.6	163.0	131.4	69.6	1119.0
25	941	43.2	21.7	11.7	21.7	133.5	114.6	104.1	137.3	135.4	182.2	170.1	108.0	1184.0
25	942	32.3	27.3	16.8	35.3	97.6	77.1	144.7	192.1	142.4	157.2	149.4	84.1	1155.0
25	943	94.4	33.1	22.6	32.0	116.8	103.0	124.5	124.6	130.8	179.7	184.8	73.8	1221.0
25	944	61.8	29.9	14.0	15.4	81.5	100.2	134.0	146.2	130.7	226.6	250.8	151.0	1343.0
25	945	155.9	34.6	26.7	58.6	141.5	166.4	130.7	110.2	138.3	226.8	189.6	114.3	1494.0
25	946	89.8	40.8	25.3	46.0	69.6	119.1	117.8	118.3	180.3	245.5	190.0	219.8	1463.0
25	947	94.9	50.6	31.7	26.8	61.5	54.3	91.9	109.1	127.5	160.2	123.3	33.4	964.0
25	948	25.6	9.7	9.1	46.5	94.3	149.7	182.8	186.0	159.6	187.3	251.1	150.2	1453.0
25	949	90.1	39.2	19.4	23.1	68.9	73.0	47.5	56.9	106.1	167.7	153.4	88.5	933.0
25	950	33.1	27.4	18.2	18.1	70.2	89.9	112.6	74.8	129.6	261.8	433.9	122.4	1392.0
25	951	46.6	40.9	25.0	32.5	88.1	108.9	141.4	162.5	162.9	221.2	209.1	115.0	1354.0
25	952	60.6	25.6	18.0	25.9	84.4	158.0	176.3	173.6	160.1	185.3	211.7	134.6	1415.0
25	953	43.3	23.4	15.3	39.6	88.8	74.0	74.4	96.5	163.6	273.5	309.8	223.1	1425.0

G-201

G-202

25	954	95.6	34.2	19.3	11.1	60.9	69.2	100.8	165.9	215.1	173.0	187.5	152.8	1285.0
25	955	67.2	24.3	16.0	23.3	74.2	78.2	69.0	146.3	101.7	138.2	106.0	93.7	937.0
25	956	39.0	23.1	19.9	43.2	92.0	118.1	139.5	170.7	144.4	172.4	206.9	106.5	1274.0
25	957	71.6	28.3	18.7	84.9	125.3	155.5	146.3	153.3	140.9	193.2	257.5	177.3	1552.0
25	958	58.8	36.3	18.9	41.7	128.7	143.1	143.4	165.1	132.4	230.2	266.6	165.3	1530.0
25	959	41.3	30.2	20.9	49.2	71.5	87.9	112.6	145.2	150.6	165.5	168.6	243.4	1288.0
25	960	56.9	25.7	20.5	27.7	64.8	72.8	67.3	79.3	119.9	172.8	172.9	101.9	984.0
25	961	55.4	29.3	27.9	56.6	134.8	171.1	151.3	117.7	159.5	183.4	154.2	150.6	1392.0
25	962	66.5	31.0	19.0	47.9	87.4	118.3	162.9	182.2	180.9	257.3	291.6	144.5	1590.0
25	963	38.0	22.4	15.4	11.1	58.1	109.5	147.8	171.0	152.2	181.6	189.9	119.8	1216.0
25	964	52.3	28.3	19.9	24.1	93.2	93.6	66.1	114.0	121.6	226.6	173.2	215.8	1229.0
25	965	48.7	14.7	10.4	19.6	70.1	122.6	126.4	157.4	181.8	233.7	248.6	218.8	1454.0
25	966	63.9	31.0	26.3	30.1	105.4	85.1	98.6	100.2	93.3	166.7	164.7	129.2	1094.0
25	967	40.4	22.0	11.9	23.3	84.6	100.5	103.7	142.0	174.7	238.2	256.3	177.9	1375.0
25	968	59.9	27.6	14.2	20.5	61.7	101.2	118.0	177.3	207.5	198.3	263.7	168.1	1417.0
25	969	53.7	25.8	21.8	40.4	87.9	78.8	77.2	88.9	165.0	255.1	244.0	332.0	1471.0
25	970	97.7	54.9	42.7	61.7	97.3	106.6	120.4	155.0	178.6	162.2	133.5	85.6	1298.0
25	971	58.5	28.7	18.8	37.2	119.3	148.7	67.7	105.0	117.1	134.7	174.6	110.6	1122.0
25	972	50.4	30.2	24.1	42.9	94.5	127.5	113.5	160.9	213.3	209.4	208.2	107.3	1379.0
25	973	47.4	34.4	22.7	35.7	104.0	131.6	132.1	174.3	158.3	284.6	317.7	114.5	1557.0
25	974	73.5	39.7	26.8	24.1	62.2	81.2	101.9	130.9	134.9	200.8	233.0	410.7	1520.0
25	975	99.2	43.2	31.6	26.3	101.2	139.0	111.4	95.8	134.9	213.8	245.3	200.3	1441.0
25	976	71.4	29.6	19.8	8.6	67.2	80.3	126.3	119.5	137.6	163.5	265.8	70.3	1159.0
25	977	33.3	17.6	11.5	34.4	110.6	140.6	138.6	119.8	137.0	123.4	213.3	206.3	1286.0
25	978	53.2	29.0	21.5	19.0	78.1	112.5	127.0	152.4	177.0	171.6	206.2	163.7	1310.0
25	979	46.3	21.8	14.2	61.8	126.2	113.3	177.4	186.1	184.1	230.8	249.9	131.9	1543.0
25	980	72.5	46.5	37.6	47.1	130.5	203.0	134.6	177.3	205.9	270.5	141.7	105.4	1572.0
25	981	28.9	22.8	17.1	18.5	101.3	107.3	180.3	202.8	192.7	238.8	211.0	327.8	1650.0
25	982	79.9	38.6	31.3	51.6	103.0	106.7	90.7	118.0	97.9	174.1	179.7	174.1	1247.0
25	983	51.5	32.5	24.4	20.7	93.4	99.7	83.0	162.9	164.5	209.2	279.0	155.2	1376.0
25	984	37.1	14.7	12.1	29.9	86.0	106.8	82.7	95.1	102.7	142.1	182.0	118.8	1011.0
25	985	45.7	36.9	22.6	43.3	104.7	116.1	130.4	98.9	143.7	231.7	233.4	163.8	1372.0
25	986	89.6	39.0	20.4	24.9	70.4	89.2	61.5	102.6	135.0	198.1	179.3	125.7	1136.0
25	987	53.6	33.8	15.9	27.5	75.9	139.0	164.5	186.1	181.3	190.6	236.2	246.5	1551.0
25	988	53.6	33.1	27.0	19.0	52.3	51.3	70.5	80.9	123.1	152.1	217.4	178.5	1057.0
25	989	94.0	38.6	34.5	39.6	110.5	166.0	166.8	187.0	133.5	210.5	251.7	123.2	1557.0
25	990	80.3	37.9	31.3	43.0	76.4	147.7	104.7	123.0	172.6	167.4	180.0	111.0	1275.0
25	991	43.5	29.4	15.6	44.8	86.7	98.6	102.3	90.0	152.9	186.9	170.2	140.2	1162.0
25	992	65.6	40.9	20.1	43.7	84.5	124.1	99.8	108.9	149.3	174.0	206.5	185.1	1303.0
25	993	49.7	28.0	14.0	15.4	69.3	84.2	107.6	83.7	109.5	185.5	183.9	155.5	1087.0
25	994	32.0	35.0	24.7	50.0	99.9	120.7	92.8	114.6	115.3	181.4	262.9	108.2	1238.0
25	995	45.3	35.1	28.8	41.0	69.7	118.0	69.4	143.3	119.1	218.5	164.5	74.8	1127.0
25	996	51.2	26.5	15.9	33.2	81.1	140.6	119.2	150.6	134.0	218.7	222.7	143.8	1339.0
25	997	71.6	55.2	45.0	35.4	73.1	123.0	145.7	173.2	171.1	168.9	127.0	89.9	1279.0
25	998	53.1	26.8	15.3	25.5	56.9	63.4	101.1	139.1	129.5	117.5	158.1	114.1	999.0
25	999	46.1	31.6	18.3	29.2	62.9	87.4	93.9	109.1	120.3	198.4	170.1	68.0	1034.0
25	1000	30.3	13.7	7.6	10.2	72.7	105.3	135.0	146.8	181.7	215.9	263.5	126.8	1310.0

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MAXIMUM VOLUMES FOR PERIOD 10 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	199.7	55.8	49.2	97.6	144.5	203.0	188.1	202.8	215.1	284.6	436.2	410.7	436.2	1420.1	7015.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
25	25.6	9.7	7.6	8.6	52.3	51.3	47.5	56.9	85.6	117.5	106.0	33.4	7.6	201.0	4816.
STA 25 MONTH 1	MEAN		60.33	VARIANCE		790.24	STAN. DEV.		28.11						
STA 25 MONTH 2	MEAN		31.56	VARIANCE		91.96	STAN. DEV.		9.59						
STA 25 MONTH 3	MEAN		21.90	VARIANCE		68.16	STAN. DEV.		8.26						
STA 25 MONTH 4	MEAN		33.03	VARIANCE		260.74	STAN. DEV.		16.15						
STA 25 MONTH 5	MEAN		87.07	VARIANCE		591.89	STAN. DEV.		24.33						
STA 25 MONTH 6	MEAN		109.98	VARIANCE		905.29	STAN. DEV.		30.09						
STA 25 MONTH 7	MEAN		113.59	VARIANCE		1070.25	STAN. DEV.		32.71						
STA 25 MONTH 8	MEAN		133.71	VARIANCE		1297.42	STAN. DEV.		36.02						
STA 25 MONTH 9	MEAN		144.65	VARIANCE		989.60	STAN. DEV.		31.46						
STA 25 MONTH 10	MEAN		193.26	VARIANCE		1632.18	STAN. DEV.		40.40						
STA 25 MONTH 11	MEAN		207.48	VARIANCE		3570.96	STAN. DEV.		59.76						
STA 25 MONTH 12	MEAN		142.46	VARIANCE		4111.60	STAN. DEV.		64.12						

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**INPUT AND OUTPUT FILES
GATUN TOTAL
HEC-4 SYNTHETIC FLOWS**

GATUN TOTAL													
A	MONTHLY FLOWS IN CMS												
A	ESTIMATED BY MWH												
B	1911	1	1	90	1000	100							
C													
H	261941	91.5	111.8	73.4	60.0	135.1	226.6	205.7	277.0	266.4	466.4	363.2	213.4
H	261942	101.1	85.3	76.0	100.2	128.5	238.6	263.9	264.3	323.2	388.3	290.4	242.9
H	261943	103.2	88.5	69.0	84.0	201.0	247.9	177.0	205.3	200.3	257.1	316.3	443.1
H	261944	136.3	78.7	40.6	96.7	246.8	190.6	225.6	296.7	245.6	409.8	333.2	485.9
H	261945	122.9	68.0	41.5	48.5	150.9	179.8	194.8	216.0	231.4	319.0	335.3	445.4
H	261946	97.8	50.2	42.3	46.1	126.6	150.3	256.3	195.7	224.7	215.1	184.1	342.0
H	261947	99.3	60.2	34.3	51.3	110.0	177.7	215.3	232.4	226.6	257.1	227.4	201.5
H	261948	87.6	44.0	29.1	26.9	106.2	116.1	223.2	193.5	178.9	211.2	328.9	129.6
H	261949	59.9	34.0	25.3	32.0	128.5	266.1	266.8	264.8	267.0	306.2	477.7	324.2
H	261950	87.3	72.1	43.6	73.3	199.0	228.1	324.2	285.9	202.5	225.4	416.7	432.7
H	261951	103.4	164.5	78.7	96.5	174.7	164.3	180.2	203.5	218.7	239.9	261.9	205.7
H	261952	90.4	54.1	34.8	53.3	131.9	166.9	196.2	213.5	224.7	340.5	214.0	370.6
H	261953	205.4	114.4	57.3	63.3	205.2	148.0	209.4	187.8	182.8	308.7	341.8	194.0
H	261954	86.1	60.1	42.9	64.9	186.5	202.0	323.4	293.5	262.9	236.1	441.3	301.0
H	261955	294.0	76.7	50.6	39.1	110.7	168.2	186.2	300.5	229.5	239.3	474.9	253.6
H	261956	260.2	90.1	79.3	81.2	245.9	210.2	316.8	187.7	232.0	342.4	395.6	194.5
H	261957	61.0	38.5	26.3	21.3	96.6	91.0	87.9	132.3	134.9	250.8	308.7	171.0
H	261958	146.4	89.1	59.7	49.0	131.1	138.1	179.9	192.0	215.1	227.9	208.0	151.9
H	261959	62.4	36.9	26.8	44.4	103.1	130.2	122.6	139.6	224.7	259.6	349.4	523.3
H	261960	196.5	51.6	58.5	139.2	202.5	208.2	192.0	189.3	167.1	253.4	297.7	575.2
H	261961	96.8	45.6	32.8	61.0	95.2	232.8	179.8	202.4	217.8	307.0	296.1	195.2
H	261962	89.5	47.7	35.2	45.8	194.7	165.6	240.3	276.7	239.8	250.3	278.1	205.1
H	261963	184.9	73.4	44.9	94.3	218.6	247.4	265.3	334.1	286.9	301.2	426.4	136.9
H	261964	65.9	39.2	30.8	65.0	181.0	319.3	341.3	307.3	290.7	345.0	421.9	153.6
H	261965	106.2	59.4	42.5	34.3	137.3	187.9	153.3	192.9	216.7	403.5	560.0	341.0
H	261966	132.6	62.3	44.4	135.2	212.2	210.2	189.2	215.2	225.9	289.2	524.6	370.2
H	261967	123.0	70.5	51.9	113.4	218.4	295.3	281.4	235.2	255.5	304.8	335.2	225.8
H	261968	74.9	62.9	44.5	36.2	133.7	158.8	157.9	224.0	223.6	267.9	254.5	122.0
H	261969	79.8	53.1	40.7	73.4	136.9	116.5	157.3	221.3	252.7	242.1	290.3	394.5
H	261970	269.5	75.4	70.8	136.4	251.1	184.8	203.4	258.6	243.8	351.8	354.0	456.9
H	261971	218.9	88.2	69.4	43.4	169.6	231.5	266.8	269.0	233.5	263.8	309.8	105.9
H	261972	276.7	75.1	46.2	128.3	138.2	190.8	115.0	134.1	213.5	242.6	211.1	157.4
H	261973	73.9	49.6	21.0	25.5	119.1	229.2	242.9	229.9	274.1	268.0	469.4	236.8
H	261974	111.9	60.4	46.1	33.2	85.2	146.2	180.5	185.5	192.9	379.6	348.4	168.3
H	261975	57.4	40.2	27.5	22.8	126.1	176.1	252.4	341.0	243.4	360.9	455.6	383.4
H	261976	117.5	61.4	42.9	67.3	115.4	128.7	67.0	93.1	185.4	280.3	269.8	95.4
H	261977	65.2	40.8	27.2	28.2	89.8	100.5	119.8	233.8	200.9	333.4	274.2	180.9
H	261978	68.8	53.4	46.8	173.8	199.7	234.4	241.7	298.9	230.8	264.6	325.3	156.1
H	261979	69.7	43.4	32.3	111.7	129.3	189.0	178.2	231.1	212.5	270.6	268.1	216.4
H	261980	169.8	86.8	43.4	44.1	154.4	213.6	144.2	187.4	151.6	244.8	273.7	226.4
H	261981	156.4	88.7	79.9	425.7	339.5	307.1	308.5	265.0	189.5	271.5	423.4	428.0
H	261982	183.9	84.7	52.7	74.4	120.7	131.3	166.4	158.0	179.2	308.0	198.5	87.0
H	261983	60.7	34.5	24.6	44.1	163.9	147.4	125.0	151.8	234.3	251.7	257.1	408.9
H	261984	129.6	74.8	37.6	31.7	130.6	195.3	214.4	376.3	315.4	377.3	387.0	175.5
H	261985	89.3	59.5	51.5	41.6	129.8	196.4	151.8	160.3	269.9	225.7	217.6	310.4
H	261986	84.9	50.5	45.4	119.0	178.5	198.0	150.4	154.6	211.1	377.0	309.4	124.9
H	261987	57.0	52.6	29.2	168.5	293.2	191.8	210.8	252.3	300.3	362.0	350.8	175.8
H	261988	61.0	54.1	30.9	31.2	130.4	136.3	257.5	330.0	283.1	377.2	284.3	197.1
H	261989	89.7	83.2	50.3	38.9	106.5	153.2	216.9	256.1	196.1	299.5	379.7	234.7

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H	261990	144.7	76.5	66.5	74.3	257.9	155.4	165.6	228.2	331.6	404.2	323.1	273.4
H	261991	83.8	55.4	75.8	54.2	212.2	143.1	147.8	150.5	255.2	229.8	347.9	165.5
H	261992	92.7	45.6	31.2	82.2	278.2	244.4	200.4	281.9	304.7	222.9	259.8	182.8
H	261993	124.1	67.6	84.7	144.1	157.6	231.9	205.7	158.3	290.2	330.9	344.5	204.7
H	261994	81.1	46.7	44.0	36.9	162.9	219.5	169.1	201.6	198.3	247.3	363.0	128.2
H	261995	91.3	39.1	27.2	50.5	157.9	241.5	273.8	242.7	207.2	226.1	316.1	276.0
H	261996	405.9	127.9	103.5	79.4	250.7	257.6	252.6	286.9	245.4	276.6	460.3	362.9
H	261997	99.3	69.2	36.1	32.7	143.9	142.8	98.5	87.9	122.4	161.3	166.0	76.0
H	261998	41.7	29.2	19.2	85.9	154.4	141.0	191.9	215.6	205.3	244.5	200.3	324.0
H	261999	135.3	87.1	70.5	95.0	176.0	266.0	239.4	338.8	282.2	259.8	394.6	656.9
H	262000	222.7	81.7	48.4	44.6	143.0	263.2	160.2	209.3	214.0	303.8	220.6	372.6

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GATUN TOTAL
MONTHLY FLOWS IN CMS
ESTIMATED BY MWH

IYRA IMNTH IANAL MXRCS NYRG NYMXG NPASS IPCHQ IPCHS NSTA NCOMB NTNDM NCSTY IGNRL NPROJ IYRPJ MTHPJ LYRPJ
1911 1 1 90 1000 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

MAXIMUM VOLUMES OF RECORDED FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	405.9	164.5	103.5	425.7	339.5	319.3	341.3	376.3	331.6	466.4	560.0	656.9	656.9	2171.7	11890.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	41.7	29.2	19.2	21.3	85.2	91.0	67.0	87.9	122.4	161.3	166.0	76.0	19.2	334.7	8178.

STA AVERAGE MONTHLY FLOW IS
26 184.77

FREQUENCY STATISTICS

STA	ITEM	1	2	3	4	5	6	7	8	9	10	11	12
26	MEAN	2.041	1.798	1.649	1.798	2.201	2.274	2.293	2.344	2.361	2.460	2.506	2.377
	STD DEV	0.206	0.150	0.165	0.253	0.136	0.119	0.139	0.128	0.085	0.089	0.117	0.212
	SKEW	0.665	0.212	0.075	0.584	0.300	-0.315	-0.793	-0.774	-0.586	0.144	-0.196	-0.051
	INCRMT	1.23	0.66	0.47	0.75	1.65	1.93	2.04	2.27	2.31	2.91	3.29	2.65
	YEARS	60	60	60	60	60	60	60	60	60	60	60	60

1

G-207

RAW CORRELATION COEFFICIENTS FOR MONTH 1

STA	26	WITH CURRENT MONTH
26	1.000	WITH PRECEDING MONTH AT ABOVE STATION
26	0.579	

RAW CORRELATION COEFFICIENTS FOR MONTH 2

STA	26	WITH CURRENT MONTH
26	1.000	WITH PRECEDING MONTH AT ABOVE STATION
26	0.737	

RAW CORRELATION COEFFICIENTS FOR MONTH 3

STA	26	WITH CURRENT MONTH
-----	----	--------------------

26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.824

RAW CORRELATION COEFFICIENTS FOR MONTH 4

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.482

RAW CORRELATION COEFFICIENTS FOR MONTH 5

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.677

RAW CORRELATION COEFFICIENTS FOR MONTH 6

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.502

G-208

RAW CORRELATION COEFFICIENTS FOR MONTH 7

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.603

RAW CORRELATION COEFFICIENTS FOR MONTH 8

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.693

RAW CORRELATION COEFFICIENTS FOR MONTH 9

STA 26 WITH CURRENT MONTH

26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
 26 0.574

RAW CORRELATION COEFFICIENTS FOR MONTH 10

STA 26
 WITH CURRENT MONTH
 26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
 26 0.440

RAW CORRELATION COEFFICIENTS FOR MONTH 11

STA 26
 WITH CURRENT MONTH
 26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
 26 0.360

RAW CORRELATION COEFFICIENTS FOR MONTH 12

STA 26
 WITH CURRENT MONTH
 26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
 26 0.283

1

RECORDED AND RECONSTITUTED FLOWS

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
26	1911	104.00E	62.54E	44.35E	58.89E	158.38E	190.63E	195.21E	219.49E	228.87E	278.39E	312.72E	251.34E	2104
26	1912	105.62E	62.01E	44.09E	60.46E	154.16E	189.20E	202.49E	225.05E	231.64E	281.22E	317.44E	241.92E	2114
26	1913	106.89E	61.64E	43.03E	60.73E	160.66E	193.56E	202.43E	228.60E	233.43E	284.47E	328.43E	240.93E	2145
26	1914	102.97E	62.02E	44.87E	58.81E	156.54E	188.65E	200.84E	227.70E	234.27E	286.51E	319.85E	236.43E	2121
26	1915	102.55E	60.37E	42.80E	60.71E	163.47E	192.36E	207.76E	230.59E	234.10E	284.53E	318.41E	238.51E	2137
26	1916	98.07E	59.95E	43.07E	57.33E	154.17E	188.90E	195.06E	221.80E	224.80E	276.81E	316.17E	232.79E	2069
26	1917	102.53E	61.50E	44.58E	59.13E	158.43E	195.47E	208.64E	232.91E	233.15E	284.79E	315.16E	233.77E	2130
26	1918	101.98E	60.40E	43.68E	60.60E	155.06E	183.25E	196.93E	222.69E	229.20E	284.54E	324.80E	245.54E	2110
26	1919	103.86E	59.56E	41.52E	55.76E	151.54E	184.49E	196.82E	227.66E	235.39E	292.75E	333.08E	236.56E	2121
26	1920	105.37E	62.96E	46.17E	61.52E	152.47E	187.03E	199.25E	223.70E	227.74E	282.22E	323.77E	235.42E	2107
26	1921	103.95E	62.00E	43.51E	57.79E	153.06E	185.25E	201.69E	227.20E	235.71E	284.51E	322.77E	246.50E	2126
26	1922	105.31E	61.17E	43.48E	57.79E	151.28E	191.81E	204.80E	226.47E	232.27E	281.48E	320.04E	230.00E	2104
26	1923	101.28E	61.35E	44.69E	61.85E	158.90E	188.55E	203.83E	223.46E	231.50E	281.47E	320.44E	251.64E	2129
26	1924	106.51E	62.08E	45.00E	63.29E	155.50E	181.40E	193.98E	221.52E	229.16E	285.64E	330.36E	232.97E	2108
26	1925	99.14E	58.99E	42.29E	59.10E	153.57E	190.78E	205.84E	229.84E	231.69E	280.15E	314.99E	237.28E	2104
26	1926	104.48E	61.83E	43.73E	60.32E	155.96E	192.69E	205.92E	225.41E	233.42E	285.02E	318.98E	233.91E	2121
26	1927	101.30E	60.15E	43.63E	58.33E	157.08E	191.00E	199.64E	221.17E	230.51E	287.35E	318.83E	231.95E	2101
26	1928	105.88E	63.51E	45.53E	60.82E	160.73E	190.97E	204.89E	225.08E	228.81E	285.67E	324.97E	244.22E	2143
26	1929	107.06E	62.12E	44.59E	56.85E	151.48E	193.14E	205.53E	228.48E	234.43E	286.09E	317.97E	226.13E	2113
26	1930	101.34E	61.03E	43.04E	59.21E	156.73E	187.07E	198.07E	224.73E	234.86E	287.26E	317.96E	251.65E	2123

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26	1931	106.20E	62.54E	44.48E	61.90E	159.62E	193.83E	202.62E	220.90E	228.63E	281.77E	315.59E	221.14E	2101
26	1932	99.66E	60.28E	42.93E	59.00E	156.05E	190.44E	197.56E	226.61E	233.87E	285.62E	310.13E	239.95E	2103
26	1933	103.46E	62.63E	44.06E	58.82E	153.77E	187.50E	194.80E	222.26E	229.69E	282.44E	328.10E	235.62E	2103
26	1934	102.28E	61.54E	42.38E	57.23E	155.09E	190.27E	199.53E	229.13E	235.35E	290.07E	328.72E	243.62E	2135
26	1935	104.08E	61.65E	44.64E	61.07E	158.07E	186.77E	202.97E	226.87E	235.70E	281.29E	304.89E	237.97E	2107
26	1936	104.07E	62.97E	45.71E	57.28E	150.43E	180.62E	198.88E	223.78E	231.58E	286.12E	312.56E	228.50E	2084
26	1937	100.71E	60.72E	43.18E	56.65E	153.52E	184.27E	197.14E	217.98E	229.44E	278.52E	315.74E	233.94E	2073
26	1938	99.50E	59.47E	43.06E	58.42E	155.31E	184.59E	196.31E	222.70E	229.87E	284.14E	314.28E	237.13E	2084
26	1939	100.57E	60.41E	42.82E	56.16E	153.65E	184.77E	202.29E	230.05E	231.13E	283.61E	316.46E	238.34E	2100
26	1940	103.56E	62.41E	43.93E	58.44E	153.72E	185.08E	197.23E	219.03E	222.71E	274.72E	312.54E	231.74E	2066
26	1941	91.50	111.80	73.40	60.00	135.10	226.60	205.70	277.00	266.40	466.40	363.20	213.40	2489
26	1942	101.10	85.30	76.00	100.20	128.50	238.60	263.90	264.30	323.20	388.30	290.40	242.90	2501
26	1943	103.20	88.50	69.00	84.00	201.00	247.90	177.00	205.30	200.30	257.10	316.30	443.10	2391
26	1944	136.30	78.70	40.60	96.70	246.80	190.60	225.60	296.70	245.60	409.80	333.20	485.90	2789
26	1945	122.90	68.00	41.50	48.50	150.90	179.80	194.80	216.00	231.40	319.00	335.30	445.40	2354
26	1946	97.80	50.20	42.30	46.10	126.60	150.30	256.30	195.70	224.70	215.10	184.10	342.00	1931
26	1947	99.30	60.20	34.30	51.30	110.00	177.70	215.30	232.40	226.60	257.10	227.40	201.50	1891
26	1948	87.60	44.00	29.10	26.90	106.20	116.10	223.20	193.50	178.90	211.20	328.90	129.60	1676
26	1949	59.90	34.00	25.30	32.00	128.50	266.10	266.80	264.80	267.00	306.20	477.70	324.20	2452
26	1950	87.30	72.10	43.60	73.30	199.00	228.10	324.20	285.90	202.50	225.40	416.70	432.70	2590
26	1951	103.40	164.50	78.70	96.50	174.70	164.30	180.20	203.50	218.70	239.90	261.90	205.70	2093
26	1952	90.40	54.10	34.80	53.30	131.90	166.90	196.20	213.50	224.70	340.50	214.00	370.60	2091
26	1953	205.40	114.40	57.30	63.30	205.20	148.00	209.40	187.80	182.80	308.70	341.80	194.00	2217
26	1954	86.10	60.10	42.90	64.90	186.50	202.00	323.40	293.50	262.90	236.10	441.30	301.00	2499
26	1955	294.00	76.70	50.60	39.10	110.70	168.20	186.20	300.50	229.50	239.30	474.90	253.60	2424
26	1956	260.20	90.10	79.30	81.20	245.90	210.20	316.80	187.70	232.00	342.40	395.60	194.50	2636
26	1957	61.00	38.50	26.30	21.30	96.60	91.00	87.90	132.30	134.90	250.80	308.70	171.00	1421
26	1958	146.40	89.10	59.70	49.00	131.10	138.10	179.90	192.00	215.10	227.90	208.00	151.90	1788
26	1959	62.40	36.90	26.80	44.40	103.10	130.20	122.60	139.60	224.70	259.60	349.40	523.30	2023
26	1960	196.50	51.60	58.50	139.20	202.50	208.20	192.00	189.30	167.10	253.40	297.70	575.20	2529
26	1961	96.80	45.60	32.80	61.00	95.20	232.80	179.80	202.40	217.80	307.00	296.10	195.20	1963
26	1962	89.50	47.70	35.20	45.80	194.70	165.60	240.30	276.70	239.80	250.30	278.10	205.10	2069
26	1963	184.90	73.40	44.90	94.30	218.60	247.40	265.30	334.10	286.90	301.20	426.40	136.90	2613
26	1964	65.90	39.20	30.80	65.00	181.00	319.30	341.30	307.30	290.70	345.00	421.90	153.60	2561
26	1965	106.20	59.40	42.50	34.30	137.30	187.90	153.30	192.90	216.70	403.50	560.00	341.00	2435
26	1966	132.60	62.30	44.40	135.20	212.20	210.20	189.20	215.20	225.90	289.20	524.60	370.20	2610
26	1967	123.00	70.50	51.90	113.40	218.40	295.30	281.40	235.20	255.50	304.80	335.20	225.80	2508
26	1968	74.90	62.90	44.50	36.20	133.70	158.80	157.90	224.00	223.60	267.90	254.50	122.00	1762
26	1969	79.80	53.10	40.70	73.40	136.90	116.50	157.30	221.30	252.70	242.10	290.30	394.50	2059
26	1970	269.50	75.40	70.80	136.40	251.10	184.80	203.40	258.60	243.80	351.80	354.00	456.90	2857
26	1971	218.90	88.20	69.40	43.40	169.60	231.50	266.80	269.00	233.50	263.80	309.80	105.90	2270
26	1972	276.70	75.10	46.20	128.30	138.20	190.80	115.00	134.10	213.50	242.60	211.10	157.40	1929
26	1973	73.90	49.60	21.00	25.50	119.10	229.20	242.90	229.90	274.10	268.00	469.40	236.80	2239
26	1974	111.90	60.40	46.10	33.20	85.20	146.20	180.50	185.50	192.90	379.60	348.40	168.30	1936
26	1975	57.40	40.20	27.50	22.80	126.10	176.10	252.40	341.00	243.40	360.90	455.60	383.40	2485
26	1976	117.50	61.40	42.90	67.30	115.40	128.70	67.00	93.10	185.40	280.30	269.80	95.40	1523
26	1977	65.20	40.80	27.20	28.20	89.80	100.50	119.80	233.80	200.90	333.40	274.20	180.90	1694
26	1978	68.80	53.40	46.80	173.80	199.70	234.40	241.70	298.90	230.80	264.60	325.30	156.10	2295
26	1979	69.70	43.40	32.30	111.70	129.30	189.00	178.20	231.10	212.50	270.60	268.10	216.40	1952
26	1980	169.80	86.80	43.40	44.10	154.40	213.60	144.20	187.40	151.60	244.80	273.70	226.40	1940
26	1981	156.40	88.70	79.90	425.70	339.50	307.10	308.50	265.00	189.50	271.50	423.40	428.00	3284
26	1982	183.90	84.70	52.70	74.40	120.70	131.30	166.40	158.00	179.20	308.00	198.50	87.00	1744
26	1983	60.70	34.50	24.60	44.10	163.90	147.40	125.00	151.80	234.30	251.70	257.10	408.90	1905
26	1984	129.60	74.80	37.60	31.70	130.60	195.30	214.40	376.30	315.40	377.30	387.00	175.50	2446

26	1985	89.30	59.50	51.50	41.60	129.80	196.40	151.80	160.30	269.90	225.70	217.60	310.40	1904
26	1986	84.90	50.50	45.40	119.00	178.50	198.00	150.40	154.60	211.10	377.00	309.40	124.90	2003
26	1987	57.00	52.60	29.20	168.50	293.20	191.80	210.80	252.30	300.30	362.00	350.80	175.80	2445
26	1988	61.00	54.10	30.90	31.20	130.40	136.30	257.50	330.00	283.10	377.20	284.30	197.10	2171
26	1989	89.70	83.20	50.30	38.90	106.50	153.20	216.90	256.10	196.10	299.50	379.70	234.70	2104
26	1990	144.70	76.50	66.50	74.30	257.90	155.40	165.60	228.20	331.60	404.20	323.10	273.40	2501
26	1991	83.80	55.40	75.80	54.20	212.20	143.10	147.80	150.50	255.20	229.80	347.90	165.50	1921
26	1992	92.70	45.60	31.20	82.20	278.20	244.40	200.40	281.90	304.70	222.90	259.80	182.80	2227
26	1993	124.10	67.60	84.70	144.10	157.60	231.90	205.70	158.30	290.20	330.90	344.50	204.70	2345
26	1994	81.10	46.70	44.00	36.90	162.90	219.50	169.10	201.60	198.30	247.30	363.00	128.20	1899
26	1995	91.30	39.10	27.20	50.50	157.90	241.50	273.80	242.70	207.20	226.10	316.10	276.00	2149
26	1996	405.90	127.90	103.50	79.40	250.70	257.60	252.60	286.90	245.40	276.60	460.30	362.90	3111
26	1997	99.30	69.20	36.10	32.70	143.90	142.80	98.50	87.90	122.40	161.30	166.00	76.00	1235
26	1998	41.70	29.20	19.20	85.90	154.40	141.00	191.90	215.60	205.30	244.50	200.30	324.00	1852
26	1999	135.30	87.10	70.50	95.00	176.00	266.00	239.40	338.80	282.20	259.80	394.60	656.90	3001
26	2000	222.70	81.70	48.40	44.60	143.00	263.20	160.20	209.30	214.00	303.80	220.60	372.60	2285

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ADJUSTED FREQUENCY STATISTICS

STA	ITEM	1	2	3	4	5	6	7	8	9	10	11	12
26	MEAN	2.034	1.796	1.648	1.791	2.200	2.276	2.298	2.348	2.363	2.459	2.507	2.378
	STD DEV	0.168	0.123	0.134	0.206	0.111	0.097	0.114	0.105	0.069	0.073	0.096	0.173
	SKEW	0.939	0.307	0.109	0.808	0.400	-0.430	-1.077	-1.063	-0.838	0.252	-0.279	-0.079
	INCRMT	1.23	0.66	0.47	0.75	1.65	1.93	2.04	2.27	2.31	2.91	3.29	2.65

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CONSISTENT CORRELATION MATRIX FOR MONTH 1

STA 26
 WITH CURRENT MONTH
 26 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 26 0.579

CONSISTENT CORRELATION MATRIX FOR MONTH 2

STA 26
 WITH CURRENT MONTH
 26 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 26 0.737

CONSISTENT CORRELATION MATRIX FOR MONTH 3

STA 26
 WITH CURRENT MONTH
 26 1.000
 WITH PRECEDING MONTH AT ABOVE STATION
 26 0.824

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CONSISTENT CORRELATION MATRIX FOR MONTH 4

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.482

CONSISTENT CORRELATION MATRIX FOR MONTH 5

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.677

CONSISTENT CORRELATION MATRIX FOR MONTH 6

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.502

G-212

CONSISTENT CORRELATION MATRIX FOR MONTH 7

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.603

CONSISTENT CORRELATION MATRIX FOR MONTH 8

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.693

CONSISTENT CORRELATION MATRIX FOR MONTH 9

STA 26 WITH CURRENT MONTH
26 1.000 WITH PRECEDING MONTH AT ABOVE STATION
26 0.574

CONSISTENT CORRELATION MATRIX FOR MONTH 10

STA 26	WITH CURRENT MONTH
26 1.000	WITH PRECEDING MONTH AT ABOVE STATION
26 0.440	

CONSISTENT CORRELATION MATRIX FOR MONTH 11

STA 26	WITH CURRENT MONTH
26 1.000	WITH PRECEDING MONTH AT ABOVE STATION
26 0.361	

CONSISTENT CORRELATION MATRIX FOR MONTH 12

STA 26	WITH CURRENT MONTH
26 1.000	WITH PRECEDING MONTH AT ABOVE STATION
26 0.283	

1

MAXIMUM VOLUMES FOR PERIOD 1 OF 90 YEARS OF RECORDED AND RECONSTITUTED FLOWS

STA 1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26 405.9	164.5	103.5	425.7	339.5	319.3	341.3	376.3	331.6	466.4	560.0	656.9	656.9	2171.7	11890.

MINIMUM VOLUMES

STA 1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26 41.7	29.2	19.2	21.3	85.2	91.0	67.0	87.9	122.4	161.3	166.0	76.0	19.2	334.7	8178.
STA 26 MONTH 1 MEAN	113.91	VARIANCE	3372.83	STAN. DEV.	58.08									
STA 26 MONTH 2 MEAN	63.63	VARIANCE	450.93	STAN. DEV.	21.24									
STA 26 MONTH 3 MEAN	45.63	VARIANCE	254.15	STAN. DEV.	15.94									
STA 26 MONTH 4 MEAN	69.21	VARIANCE	2451.16	STAN. DEV.	49.51									
STA 26 MONTH 5 MEAN	160.44	VARIANCE	2316.78	STAN. DEV.	48.13									
STA 26 MONTH 6 MEAN	188.46	VARIANCE	2116.09	STAN. DEV.	46.00									
STA 26 MONTH 7 MEAN	201.01	VARIANCE	2868.52	STAN. DEV.	53.56									
STA 26 MONTH 8 MEAN	224.36	VARIANCE	3145.11	STAN. DEV.	56.08									
STA 26 MONTH 9 MEAN	229.06	VARIANCE	1874.99	STAN. DEV.	43.30									
STA 26 MONTH 10 MEAN	285.42	VARIANCE	3466.98	STAN. DEV.	58.88									
STA 26 MONTH 11 MEAN	323.03	VARIANCE	6228.13	STAN. DEV.	78.92									
STA 26 MONTH 12 MEAN	251.66	VARIANCE	12035.46	STAN. DEV.	109.71									

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 1

STA 26 MONTH 1	MEAN 0.000	STD DEVO 0.062
STA 26 MONTH 2	MEAN 0.004	STD DEVO 0.060
STA 26 MONTH 3	MEAN 0.005	STD DEVO 0.054
STA 26 MONTH 4	MEAN 0.005	STD DEVO 0.056

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STA	26	MONTH	5	MEAN-0.005	STD	DEVO.061
STA	26	MONTH	6	MEAN 0.000	STD	DEVO.069
STA	26	MONTH	7	MEAN 0.005	STD	DEVO.066
STA	26	MONTH	8	MEAN 0.005	STD	DEVO.068
STA	26	MONTH	9	MEAN-0.007	STD	DEVO.066
STA	26	MONTH	10	MEAN-0.008	STD	DEVO.066
STA	26	MONTH	11	MEAN 0.003	STD	DEVO.063
STA	26	MONTH	12	MEAN 0.004	STD	DEVO.064

STA	YEAR	TOTAL												
		1	2	3	4	5	6	7	8	9	10	11	12	
26	1	153.9	82.5	57.1	46.3	80.5	76.8	120.9	133.9	196.3	233.8	393.2	284.7	1860.0
26	2	69.7	50.4	45.2	33.5	90.2	112.9	132.9	180.4	225.2	262.2	334.5	340.4	1876.0
26	3	204.8	91.6	66.1	369.8	309.1	211.2	175.1	152.6	174.6	278.3	318.8	343.7	2697.0
26	4	109.9	80.2	59.4	119.3	133.0	202.8	236.5	258.9	273.0	333.5	418.1	210.6	2435.0
26	5	128.5	69.3	68.9	71.0	199.2	283.3	287.1	316.4	240.5	264.1	333.1	161.6	2422.0
26	6	101.7	79.1	60.8	100.0	153.1	176.2	120.6	182.2	204.8	235.9	396.6	177.5	1989.0
26	7	73.3	49.6	34.8	56.4	157.9	174.9	104.3	146.2	242.5	301.0	520.5	276.9	2138.0
26	8	140.3	60.4	37.0	31.3	149.3	177.5	171.2	210.2	223.0	333.1	340.3	445.9	2317.0
26	9	88.3	65.0	57.1	44.1	135.3	180.4	179.1	206.0	178.1	205.4	157.8	160.7	1656.0
26	10	64.3	45.8	26.1	65.5	174.4	203.9	212.0	283.7	281.3	356.5	340.2	275.9	2329.0
26	11	99.9	41.2	22.3	94.2	225.3	271.3	256.8	295.0	256.8	334.2	385.7	121.9	2404.0
26	12	85.0	56.4	60.2	50.0	142.2	229.4	176.3	260.2	231.1	327.1	426.5	238.2	2280.0
26	13	126.0	58.6	37.4	60.9	154.6	175.5	159.3	208.1	245.4	334.2	458.9	219.3	2238.0
26	14	195.2	87.4	62.5	63.4	157.7	192.1	219.6	239.8	239.9	338.6	395.4	336.2	2528.0
26	15	96.4	54.5	44.5	78.0	198.4	226.6	158.9	149.0	178.2	317.9	359.1	228.8	2090.0
26	16	116.7	60.3	40.0	44.4	191.5	229.7	235.3	222.1	268.7	359.6	445.3	267.1	2480.0
26	17	80.7	47.8	35.6	46.6	147.3	206.1	188.9	160.8	201.3	251.1	209.6	133.7	1711.0
26	18	145.8	52.1	32.7	40.0	142.5	163.7	184.4	169.7	207.4	233.1	310.4	229.2	1910.0
26	19	82.2	48.2	27.8	58.5	218.9	192.9	190.7	207.5	188.7	243.0	273.8	334.8	2068.0
26	20	109.1	80.0	60.6	63.8	149.9	148.8	66.9	136.1	143.9	212.9	332.8	434.5	1941.0
26	21	520.4	136.8	68.6	234.2	194.7	209.9	216.5	206.8	257.3	242.3	241.3	156.4	2684.0
26	22	86.0	42.2	36.7	32.9	130.7	226.7	239.5	229.2	212.9	300.2	307.3	177.1	2022.0
26	23	90.4	62.7	50.5	55.4	157.3	148.3	239.0	287.4	255.0	238.7	233.0	297.9	2115.0
26	24	150.1	70.8	54.4	64.6	167.6	139.7	147.8	184.4	206.9	291.3	237.6	173.0	1889.0
26	25	128.8	105.3	63.8	97.7	156.8	198.4	230.3	221.2	236.6	276.8	181.0	243.2	2140.0
26	26	125.6	53.0	46.1	49.3	116.6	148.1	182.0	137.2	228.0	206.8	211.8	209.4	1714.0
26	27	70.1	64.2	48.0	71.8	124.1	150.1	115.0	213.3	181.5	241.4	231.7	181.6	1692.0
26	28	88.3	65.0	57.0	54.9	151.3	185.5	195.9	270.0	223.7	264.9	378.6	256.8	2192.0
26	29	95.5	76.3	47.7	126.2	233.1	285.9	301.4	294.3	235.8	271.6	399.7	325.6	2693.0
26	30	120.8	90.1	63.7	33.3	117.9	215.5	170.1	189.8	213.6	259.6	354.6	169.3	1999.0
26	31	57.3	33.0	28.9	50.0	149.9	226.1	252.0	244.6	231.6	304.7	303.8	576.7	2460.0
26	32	115.0	68.2	50.9	91.0	136.7	166.0	169.7	171.3	232.2	358.8	248.5	107.2	1916.0
26	33	78.1	49.2	49.1	53.9	142.2	204.0	189.0	147.0	203.0	267.6	248.5	320.2	1952.0
26	34	99.5	71.2	66.2	96.7	205.2	184.7	169.7	228.5	233.2	286.5	305.7	171.8	2119.0
26	35	83.1	46.3	41.3	43.6	123.5	204.7	207.7	199.8	215.2	328.2	337.7	224.1	2055.0
26	36	146.0	73.1	57.4	85.3	114.9	164.7	246.2	277.0	245.8	340.0	357.3	190.4	2297.0
26	37	65.8	40.4	34.5	39.4	186.7	190.3	178.6	221.7	260.1	354.3	377.3	120.3	2068.0
26	38	54.7	30.9	19.0	44.5	196.3	233.2	234.1	175.6	206.8	274.5	269.1	241.9	1981.0
26	39	79.5	59.8	31.0	114.7	236.3	215.2	212.3	290.7	307.7	308.6	469.5	567.8	2894.0
26	40	271.1	145.2	63.6	61.1	147.2	141.8	128.2	116.2	160.3	230.2	269.4	206.9	1940.0
26	41	104.8	71.4	61.4	179.5	208.6	207.3	285.9	307.2	260.8	266.0	247.6	251.0	2451.0
26	42	93.8	41.6	35.7	61.0	204.6	264.8	247.8	251.0	222.3	256.6	285.8	145.3	2112.0
26	43	137.6	65.6	48.6	70.6	188.5	183.4	220.1	283.2	269.7	279.0	338.9	239.3	2326.0
26	44	235.8	100.6	73.4	88.3	166.4	177.9	212.2	172.4	198.4	252.9	198.4	285.9	2161.0

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26	45	107.1	69.1	50.5	38.5	156.3	209.0	274.7	281.5	221.5	299.2	311.7	280.6	2300.0
26	46	128.4	54.5	42.8	64.1	161.0	226.2	200.4	235.4	250.1	237.4	387.2	468.2	2453.0
26	47	153.8	75.7	53.4	171.2	260.4	163.2	183.8	225.3	258.4	391.7	417.2	198.7	2552.0
26	48	74.5	50.4	45.8	62.4	165.3	188.3	261.3	272.9	270.0	265.9	376.5	245.0	2277.0
26	49	86.0	59.9	38.5	69.7	153.0	171.7	184.2	263.4	300.8	396.1	466.2	341.4	2530.0
26	50	99.1	62.8	43.4	42.8	133.9	176.4	231.7	256.6	234.6	218.9	309.2	389.0	2199.0
26	51	71.9	52.4	26.9	72.2	127.1	191.9	217.7	233.6	248.2	265.1	244.9	111.7	1864.0
26	52	62.5	46.0	34.8	38.9	127.5	154.5	196.4	214.9	239.5	287.4	314.5	167.7	1885.0
26	53	82.6	43.3	37.3	38.0	138.3	145.8	184.0	230.7	189.0	274.7	270.0	291.5	1926.0
26	54	66.6	41.4	38.7	44.6	121.9	180.5	198.8	245.9	261.1	299.0	355.6	266.8	2122.0
26	55	89.4	80.3	61.2	55.3	174.9	199.7	263.0	263.4	222.7	255.3	356.9	379.9	2401.0
26	56	143.7	92.7	63.3	109.4	181.7	277.6	294.9	306.2	265.5	317.1	273.6	143.3	2469.0
26	57	69.9	55.5	41.0	44.7	155.9	223.4	256.7	269.9	273.4	276.6	246.3	124.3	2037.0
26	58	81.8	51.0	37.9	41.2	131.8	228.9	185.5	130.7	119.2	224.6	235.8	259.7	1730.0
26	59	156.7	73.6	30.2	44.0	121.0	158.6	168.3	215.0	244.9	267.1	409.1	310.1	2199.0
26	60	143.0	73.0	51.6	55.3	144.2	217.0	261.1	274.2	260.6	324.9	265.9	124.1	2195.0
26	61	69.2	57.4	32.3	46.7	117.2	130.9	141.6	245.6	268.4	242.4	229.9	265.6	1847.0
26	62	121.3	61.9	41.4	72.1	225.6	237.4	200.9	228.6	208.8	243.7	302.8	235.0	2180.0
26	63	65.4	36.4	28.1	47.6	158.0	204.0	190.2	222.5	237.3	276.1	244.5	193.4	1902.0
26	64	102.5	65.2	62.5	41.7	112.0	208.1	184.9	181.0	175.1	242.6	276.8	373.5	2026.0
26	65	187.5	108.2	67.6	87.0	129.1	183.7	259.3	284.9	229.8	314.9	349.2	279.3	2481.0
26	66	280.3	84.9	53.9	58.9	153.8	176.9	207.8	258.8	209.5	269.2	275.6	355.4	2386.0
26	67	94.5	63.1	39.4	35.0	118.6	140.0	197.8	213.6	282.1	352.8	358.3	285.6	2182.0
26	68	82.1	48.3	24.4	67.6	166.8	228.0	233.4	251.1	276.7	320.5	255.8	190.7	2146.0
26	69	75.6	37.2	30.6	93.0	159.2	163.9	212.6	299.2	282.5	391.8	260.7	89.2	2096.0
26	70	62.8	45.1	32.1	34.0	105.3	171.1	106.1	156.0	199.3	252.7	269.2	145.7	1579.0
26	71	60.5	49.4	39.3	38.3	159.7	140.3	189.0	184.6	240.5	293.3	421.9	288.7	2106.0
26	72	152.7	76.6	39.5	55.0	244.8	295.8	253.6	238.4	235.4	297.7	388.9	270.0	2549.0
26	73	122.1	55.4	44.2	114.5	150.0	128.9	144.4	120.9	214.1	332.7	266.5	343.7	2037.0
26	74	214.8	100.9	60.4	63.5	184.3	173.8	237.7	270.6	213.4	255.2	349.1	311.8	2436.0
26	75	131.9	59.2	41.5	33.9	101.5	134.8	107.2	158.3	178.6	236.8	399.2	507.2	2089.0
26	76	168.8	108.8	80.8	93.7	231.1	197.6	165.5	227.0	208.3	227.3	285.3	278.5	2274.0
26	77	83.3	53.2	23.4	29.9	111.3	195.9	252.3	296.0	239.5	232.2	274.2	157.7	1948.0
26	78	83.5	73.0	50.7	39.3	146.5	137.0	152.9	198.9	177.5	366.8	431.0	222.9	2080.0
26	79	77.3	64.8	45.8	44.7	116.7	142.8	222.5	228.7	250.7	244.6	291.2	337.1	2069.0
26	80	131.5	61.0	25.3	50.5	183.3	155.2	181.8	220.5	239.2	257.6	313.0	277.1	2094.0
26	81	179.1	101.8	92.8	648.8	349.9	249.9	297.3	324.3	256.8	280.5	309.4	301.7	3392.0
26	82	172.2	81.2	61.2	213.3	318.2	224.9	283.7	275.3	227.2	299.6	338.1	284.3	2778.0
26	83	77.9	43.8	32.2	32.8	114.3	185.2	154.5	240.8	252.8	371.5	336.2	89.5	1932.0
26	84	70.8	53.1	37.0	52.3	146.9	212.0	212.3	214.3	172.7	231.3	342.8	257.9	2003.0
26	85	125.9	60.4	42.2	47.5	112.4	145.0	177.5	198.7	232.2	340.2	403.1	157.9	2042.0
26	86	92.3	59.3	51.3	71.5	133.4	182.6	225.5	274.2	222.9	249.9	344.1	290.5	2197.0
26	87	102.1	65.2	48.1	34.8	148.3	212.9	195.9	280.4	280.8	370.6	291.4	236.3	2266.0
26	88	83.6	59.4	37.9	55.6	156.4	200.2	144.6	197.3	258.0	272.0	342.0	186.8	1994.0
26	89	81.9	67.3	41.1	41.3	137.8	175.4	246.8	209.1	261.6	239.7	357.9	147.4	2007.0
26	90	94.1	47.1	30.9	70.3	217.5	239.3	234.4	277.5	300.1	304.1	365.5	271.5	2452.0
26	91	108.4	56.0	38.5	31.3	122.6	125.5	203.0	167.4	189.5	206.7	252.9	124.6	1627.0
26	92	87.6	60.6	55.4	63.9	154.9	281.8	252.5	275.8	256.9	366.7	339.4	172.2	2368.0
26	93	101.9	58.8	38.5	51.3	172.6	256.4	191.3	234.5	219.4	298.8	499.6	244.4	2367.0
26	94	83.2	56.4	33.8	59.9	173.3	236.6	263.0	306.3	266.1	303.1	358.3	212.9	2352.0
26	95	100.0	60.8	42.0	46.1	129.9	118.0	183.4	179.4	217.4	313.2	305.8	423.5	2118.0
26	96	220.2	74.5	64.2	97.6	186.4	141.8	168.0	250.9	227.3	435.0	354.5	168.7	2388.0
26	97	98.9	57.2	38.1	47.9	132.9	167.8	207.9	176.1	169.8	246.4	329.9	245.2	1918.0
26	98	75.9	49.5	30.2	45.6	180.2	224.1	239.9	270.3	276.8	410.7	383.2	681.9	2869.0

26	99	265.8	69.0	62.7	87.8	210.1	218.2	227.0	272.6	263.1	357.1	333.1	188.4	2555.0
26	100	143.2	61.3	36.7	27.7	125.4	179.1	185.3	193.1	271.7	280.7	298.7	341.4	2144.0

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MAXIMUM VOLUMES FOR PERIOD 1 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	520.4	145.2	92.8	648.8	349.9	295.8	301.4	324.3	307.7	435.0	520.5	681.9	681.9	2288.8	11884.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	54.7	30.9	19.0	27.7	80.5	76.8	66.9	116.2	119.2	205.4	157.8	89.2	19.0	368.5	8037.
STA 26 MONTH 1 MEAN	115.76	VARIANCE	4068.14	STAN. DEV.	63.78										
STA 26 MONTH 2 MEAN	63.96	VARIANCE	444.42	STAN. DEV.	21.08										
STA 26 MONTH 3 MEAN	45.73	VARIANCE	220.83	STAN. DEV.	14.86										
STA 26 MONTH 4 MEAN	73.76	VARIANCE	5609.37	STAN. DEV.	74.90										
STA 26 MONTH 5 MEAN	160.95	VARIANCE	2387.55	STAN. DEV.	48.86										
STA 26 MONTH 6 MEAN	189.65	VARIANCE	2108.87	STAN. DEV.	45.92										
STA 26 MONTH 7 MEAN	200.80	VARIANCE	2662.76	STAN. DEV.	51.60										
STA 26 MONTH 8 MEAN	224.68	VARIANCE	3033.40	STAN. DEV.	55.08										
STA 26 MONTH 9 MEAN	228.77	VARIANCE	1781.50	STAN. DEV.	42.21										
STA 26 MONTH 10 MEAN	286.06	VARIANCE	3379.84	STAN. DEV.	58.14										
STA 26 MONTH 11 MEAN	322.56	VARIANCE	6090.04	STAN. DEV.	78.04										
STA 26 MONTH 12 MEAN	252.56	VARIANCE	11976.98	STAN. DEV.	109.44										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 2

STA 26 MONTH 1	MEAN 0.008	STD DEVO.069
STA 26 MONTH 2	MEAN 0.012	STD DEVO.058
STA 26 MONTH 3	MEAN 0.008	STD DEVO.059
STA 26 MONTH 4	MEAN-0.007	STD DEVO.063
STA 26 MONTH 5	MEAN 0.002	STD DEVO.067
STA 26 MONTH 6	MEAN-0.005	STD DEVO.067
STA 26 MONTH 7	MEAN-0.009	STD DEVO.066
STA 26 MONTH 8	MEAN-0.010	STD DEVO.063
STA 26 MONTH 9	MEAN-0.005	STD DEVO.064
STA 26 MONTH 10	MEAN 0.001	STD DEVO.070
STA 26 MONTH 11	MEAN-0.002	STD DEVO.065
STA 26 MONTH 12	MEAN 0.008	STD DEVO.072

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
26	101	87.8	57.8	34.2	30.5	101.5	159.8	149.1	142.8	204.8	385.4	321.4	194.5	1870.0
26	102	99.3	55.3	38.0	42.2	128.8	124.0	205.6	219.4	251.6	314.5	229.7	431.2	2139.0
26	103	312.1	75.8	41.9	40.9	119.0	251.5	207.4	243.3	241.5	352.2	294.8	275.8	2456.0
26	104	87.2	51.7	35.6	46.9	113.6	209.9	202.3	167.9	177.3	286.6	308.7	329.7	2019.0
26	105	113.4	55.6	49.1	83.3	171.5	296.6	203.6	260.4	275.9	380.8	439.9	220.5	2551.0
26	106	67.2	46.9	40.9	43.4	129.8	238.5	243.9	257.0	264.1	242.6	362.4	239.4	2175.0
26	107	80.8	72.9	60.4	51.0	189.9	237.9	276.4	284.2	232.9	226.1	181.9	261.4	2155.0
26	108	95.1	57.1	34.9	28.9	81.8	97.6	64.1	125.5	261.5	298.9	421.6	538.8	2108.0
26	109	167.4	69.2	44.9	98.5	179.8	251.7	244.0	219.0	215.6	248.0	234.8	107.1	2080.0
26	110	59.6	40.7	28.2	33.3	110.7	123.8	202.0	229.9	203.4	258.6	289.0	265.2	1845.0
26	111	61.8	46.7	49.0	284.9	182.3	191.9	274.6	280.4	253.8	299.7	327.2	345.9	2599.0
26	112	137.2	73.6	56.5	64.9	146.3	208.1	173.4	217.3	226.7	288.0	456.0	472.5	2520.0
26	113	131.3	66.1	42.6	65.8	157.4	166.4	167.6	196.3	254.4	290.8	222.3	165.2	1925.0
26	114	78.0	68.9	68.0	142.7	235.6	254.0	214.5	215.7	150.4	233.1	236.3	264.8	2162.0
26	115	199.1	136.3	61.4	72.1	178.5	220.1	160.7	193.8	215.4	262.0	246.4	150.0	2094.0

26	116	140.1	48.9	28.0	24.9	105.1	137.4	155.9	236.3	262.6	298.5	344.3	317.9	2100.0
26	117	152.1	64.2	40.0	64.9	141.8	227.7	187.9	220.1	291.4	347.1	416.2	288.1	2441.0
26	118	101.1	54.3	39.2	89.4	189.2	201.4	238.2	221.8	257.7	367.3	391.6	293.2	2443.0
26	119	124.4	54.2	48.6	92.9	182.7	160.9	217.9	251.1	272.7	249.3	273.9	264.9	2194.0
26	120	121.6	68.1	39.6	46.1	199.7	183.0	162.6	231.5	231.4	234.4	236.7	153.8	1910.0
26	121	69.1	47.7	32.6	41.4	124.4	190.0	196.6	283.3	280.9	377.8	456.8	293.3	2394.0
26	122	69.3	54.5	35.5	35.1	140.6	199.8	193.4	213.0	262.3	283.0	344.6	446.1	2276.0
26	123	182.3	87.8	74.7	145.8	188.5	159.6	173.5	207.9	158.4	226.0	365.2	396.5	2367.0
26	124	162.8	70.6	45.0	56.6	145.8	188.9	196.1	236.4	224.6	311.4	281.7	126.9	2048.0
26	125	88.0	50.6	46.1	40.4	174.0	162.5	75.8	112.4	190.1	248.6	374.9	266.0	1830.0
26	126	125.2	83.3	63.7	97.1	221.2	209.6	205.3	274.0	243.8	335.9	251.4	217.2	2327.0
26	127	75.7	38.3	27.4	36.1	131.0	145.6	149.0	142.8	210.0	285.6	302.8	215.2	1760.0
26	128	111.9	79.5	63.7	101.8	197.5	206.5	187.7	172.5	202.6	226.5	326.5	269.3	2149.0
26	129	202.5	119.2	66.0	146.4	210.8	202.1	184.7	256.5	262.5	292.8	238.6	167.3	2350.0
26	130	72.0	67.0	60.9	80.4	273.4	240.3	287.6	315.5	285.4	308.0	309.9	257.9	2557.0
26	131	126.4	82.7	42.5	34.3	114.5	197.0	190.9	221.2	250.6	353.1	409.9	94.9	2118.0
26	132	71.1	43.0	23.2	42.1	129.1	178.2	205.1	264.6	265.0	305.9	368.9	211.8	2108.0
26	133	130.7	107.9	64.1	75.0	148.5	184.6	240.9	262.9	256.1	330.5	377.0	268.1	2447.0
26	134	156.9	71.4	74.7	157.0	167.2	240.8	256.7	279.3	230.0	231.6	268.8	244.3	2379.0
26	135	107.1	59.4	45.2	76.7	319.5	237.2	245.5	282.0	230.7	327.1	398.6	195.1	2524.0
26	136	65.0	46.9	38.7	70.6	189.8	215.2	187.6	222.8	126.7	259.1	268.4	344.2	2036.0
26	137	91.4	57.5	34.9	107.5	129.6	147.6	142.5	162.4	246.5	339.0	394.5	280.3	2135.0
26	138	75.4	49.5	23.0	64.4	194.2	183.3	194.3	244.6	205.6	278.8	346.2	281.7	2140.0
26	139	120.2	80.2	44.3	69.7	178.1	173.6	150.8	180.0	276.0	352.8	312.5	561.9	2500.0
26	140	191.9	89.9	66.6	103.7	171.2	233.3	278.8	314.7	276.6	379.2	534.7	206.8	2849.0
26	141	133.4	92.9	78.2	34.3	122.0	106.2	175.7	226.4	206.7	337.0	319.6	628.4	2460.0
26	142	343.0	109.1	79.3	77.5	280.3	223.3	234.1	287.5	274.4	320.2	307.8	169.2	2704.0
26	143	84.7	40.2	29.6	41.4	156.0	172.5	211.9	261.3	214.2	315.7	300.6	160.2	1989.0
26	144	160.5	81.0	57.3	137.3	195.0	155.1	103.7	164.2	235.7	288.6	319.3	152.9	2050.0
26	145	70.5	39.8	23.5	43.4	133.3	165.9	245.0	255.3	264.5	326.1	333.4	280.8	2180.0
26	146	67.7	51.4	45.1	65.5	168.4	240.7	236.8	222.9	220.5	250.6	281.5	123.3	1973.0
26	147	81.1	55.5	41.8	45.1	139.1	185.1	224.1	189.9	226.7	263.5	412.7	423.7	2289.0
26	148	186.4	86.6	52.3	94.9	240.2	188.3	222.5	280.3	211.8	199.4	184.6	201.3	2147.0
26	149	75.9	52.7	31.1	67.9	181.8	246.5	234.6	299.4	262.2	341.5	458.2	384.4	2635.0
26	150	169.2	56.4	45.5	86.4	157.0	240.4	240.8	294.2	267.7	265.0	434.7	173.9	2430.0
26	151	80.6	67.2	37.5	49.3	136.2	165.3	208.6	197.0	261.1	283.8	292.8	211.7	1992.0
26	152	67.5	57.0	38.4	41.6	143.2	203.9	250.6	224.0	258.7	278.8	363.2	178.5	2105.0
26	153	74.6	56.2	35.4	58.7	178.5	175.4	190.2	169.5	177.8	253.3	271.3	256.7	1896.0
26	154	66.8	41.8	31.9	42.4	148.5	117.1	245.8	276.6	276.6	317.4	348.4	162.7	2076.0
26	155	79.3	44.6	32.6	86.5	146.5	177.6	244.8	295.4	268.7	249.5	364.5	119.1	2111.0
26	156	115.2	51.8	45.6	38.3	108.9	183.8	182.1	195.9	241.7	274.8	411.1	218.3	2068.0
26	157	108.2	54.4	45.8	64.2	159.0	220.9	296.8	325.7	262.2	261.9	377.0	348.1	2524.0
26	158	157.5	79.7	43.9	31.8	113.8	183.1	178.8	184.8	220.9	208.9	214.5	276.3	1895.0
26	159	130.1	61.4	27.0	43.8	136.2	170.8	219.2	223.3	236.7	228.8	283.2	208.4	1968.0
26	160	83.5	49.2	38.9	39.9	106.3	119.5	95.8	85.7	133.3	268.4	333.2	329.6	1683.0
26	161	113.2	82.5	57.7	114.2	170.1	212.6	195.1	236.8	250.7	243.2	326.9	378.2	2381.0
26	162	105.2	43.8	31.3	27.5	120.5	189.3	256.1	263.4	227.6	249.7	305.7	125.2	1946.0
26	163	84.0	60.3	48.2	38.9	175.3	232.0	216.2	175.8	201.4	284.4	241.6	156.9	1914.0
26	164	56.8	30.8	18.6	37.9	119.5	203.1	214.2	299.3	248.5	294.4	233.2	148.9	1905.0
26	165	83.7	47.6	30.5	41.3	136.0	267.3	293.0	270.3	251.4	265.0	288.5	451.3	2424.0
26	166	399.2	124.8	93.5	185.4	216.2	217.6	241.9	261.2	253.1	325.4	219.0	299.1	2836.0
26	167	137.8	77.9	50.3	38.1	130.5	194.2	184.6	300.3	244.5	227.3	310.3	109.4	2005.0
26	168	85.4	56.3	44.9	120.5	212.2	224.4	223.7	255.5	205.1	283.9	300.7	257.4	2269.0
26	169	87.2	63.2	61.7	56.5	140.3	168.9	154.3	190.7	187.7	323.0	362.4	128.3	1923.0

26	170	80.7	64.1	35.3	27.6	93.9	147.5	178.6	221.2	214.7	289.2	392.9	362.1	2108.0
26	171	145.6	75.9	84.0	142.9	174.9	167.2	132.4	135.6	214.8	274.6	390.0	214.3	2153.0
26	172	131.7	73.2	62.1	36.6	143.3	210.9	234.8	283.8	265.7	349.9	316.2	302.6	2412.0
26	173	116.8	92.3	60.7	114.0	296.6	277.1	293.4	258.2	225.1	293.2	268.7	262.0	2558.0
26	174	161.2	85.0	66.3	53.0	137.4	129.0	173.9	189.6	186.0	323.0	282.2	166.4	1952.0
26	175	84.7	52.3	40.9	58.8	139.9	118.9	138.0	233.1	240.6	417.5	366.8	297.5	2190.0
26	176	90.3	47.9	27.5	68.5	152.1	175.1	204.6	221.7	261.9	296.8	450.6	152.9	2151.0
26	177	96.9	71.4	42.1	52.4	146.8	176.7	195.4	158.4	149.2	190.6	249.2	132.6	1661.0
26	178	79.4	41.2	37.4	60.9	158.9	195.6	268.8	304.3	281.1	304.2	360.8	213.4	2305.0
26	179	62.4	32.8	34.7	75.8	226.6	224.1	268.4	268.1	266.3	328.4	233.2	235.8	2256.0
26	180	105.1	93.4	55.0	63.0	201.5	167.2	248.4	239.5	262.1	354.9	337.3	284.8	2410.0
26	181	90.7	49.8	39.5	52.2	135.8	157.7	197.3	247.2	263.0	376.3	324.4	414.6	2349.0
26	182	155.0	77.6	51.7	63.4	157.1	209.7	225.9	244.3	266.1	333.1	398.3	190.7	2373.0
26	183	81.1	58.4	47.9	85.5	191.8	151.9	128.0	138.7	241.3	299.7	320.6	265.3	2010.0
26	184	95.3	53.5	36.1	103.0	209.9	222.6	202.9	275.0	275.4	368.9	359.0	166.9	2368.0
26	185	74.8	50.5	36.2	54.2	164.7	177.2	138.7	170.0	194.5	216.8	228.9	381.4	1888.0
26	186	83.6	46.5	31.8	52.8	132.2	183.6	157.0	187.2	180.9	270.7	316.9	177.3	1822.0
26	187	76.4	40.5	34.5	102.8	162.2	186.1	195.6	171.2	192.5	251.8	382.7	214.1	2009.0
26	188	132.1	74.9	50.8	55.9	122.4	95.0	137.0	110.7	152.5	279.3	435.9	560.1	2207.0
26	189	227.3	68.6	67.9	57.4	154.3	193.4	180.1	252.2	195.1	235.8	254.5	214.8	2100.0
26	190	69.2	55.2	32.4	53.7	193.8	222.9	207.4	200.0	239.6	273.8	278.5	220.6	2047.0
26	191	111.0	71.7	48.5	66.7	126.6	241.9	279.6	281.1	206.8	236.9	362.8	299.5	2335.0
26	192	107.3	66.8	47.6	67.3	118.8	161.6	183.3	198.5	235.4	235.9	270.3	317.6	2010.0
26	193	248.4	83.2	63.8	55.0	154.9	214.5	200.4	230.8	225.4	206.2	319.1	273.3	2274.0
26	194	78.9	60.7	40.9	35.9	113.9	179.1	119.7	204.2	148.3	216.6	293.0	142.0	1634.0
26	195	117.3	68.6	52.6	37.2	114.1	126.1	209.4	169.7	193.2	230.4	275.4	210.2	1803.0
26	196	116.5	80.5	51.6	64.3	154.9	191.8	261.8	236.3	223.7	320.2	346.1	207.8	2257.0
26	197	136.9	62.8	58.7	104.2	273.3	298.1	263.1	236.3	224.0	331.1	390.0	243.1	2621.0
26	198	159.3	77.9	37.7	46.7	180.3	162.9	173.4	196.8	207.7	298.4	273.2	102.7	1917.0
26	199	58.6	48.3	38.0	55.0	183.3	232.4	220.2	226.1	244.6	273.1	502.1	184.8	2266.0
26	200	92.9	58.8	49.0	38.1	120.2	161.6	152.3	216.1	268.5	242.6	207.2	216.1	1824.0

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STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	399.2	136.3	93.5	284.9	319.5	298.1	296.8	325.7	291.4	417.5	534.7	628.4	628.4	2061.1	12079.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	56.8	30.8	18.6	24.9	81.8	95.0	64.1	85.7	126.7	190.6	181.9	94.9	18.6	364.4	8382.
STA 26 MONTH 1 MEAN	115.74	VARIANCE	3473.94	STAN.	DEV.	58.94									
STA 26 MONTH 2 MEAN	63.93	VARIANCE	420.96	STAN.	DEV.	20.52									
STA 26 MONTH 3 MEAN	45.65	VARIANCE	235.54	STAN.	DEV.	15.35									
STA 26 MONTH 4 MEAN	68.47	VARIANCE	1585.29	STAN.	DEV.	39.82									
STA 26 MONTH 5 MEAN	160.81	VARIANCE	2217.18	STAN.	DEV.	47.09									
STA 26 MONTH 6 MEAN	189.86	VARIANCE	2085.17	STAN.	DEV.	45.66									
STA 26 MONTH 7 MEAN	201.33	VARIANCE	2666.85	STAN.	DEV.	51.64									
STA 26 MONTH 8 MEAN	224.65	VARIANCE	3033.31	STAN.	DEV.	55.08									
STA 26 MONTH 9 MEAN	228.99	VARIANCE	1866.35	STAN.	DEV.	43.20									
STA 26 MONTH 10 MEAN	286.24	VARIANCE	3146.44	STAN.	DEV.	56.09									
STA 26 MONTH 11 MEAN	323.47	VARIANCE	6058.23	STAN.	DEV.	77.83									
STA 26 MONTH 12 MEAN	253.98	VARIANCE	12205.07	STAN.	DEV.	110.48									

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 3

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STA	26	MONTH	1	MEAN	0.005	STD	DEVO	0.055
STA	26	MONTH	2	MEAN	0.001	STD	DEVO	0.054
STA	26	MONTH	3	MEAN	-0.002	STD	DEVO	0.060
STA	26	MONTH	4	MEAN	-0.003	STD	DEVO	0.062
STA	26	MONTH	5	MEAN	0.000	STD	DEVO	0.066
STA	26	MONTH	6	MEAN	0.002	STD	DEVO	0.064
STA	26	MONTH	7	MEAN	0.005	STD	DEVO	0.064
STA	26	MONTH	8	MEAN	0.003	STD	DEVO	0.067
STA	26	MONTH	9	MEAN	0.001	STD	DEVO	0.067
STA	26	MONTH	10	MEAN	0.000	STD	DEVO	0.061
STA	26	MONTH	11	MEAN	0.008	STD	DEVO	0.068
STA	26	MONTH	12	MEAN	0.000	STD	DEVO	0.063

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
26	201	88.5	84.8	54.5	55.7	170.5	175.4	113.5	163.3	205.7	231.8	357.6	201.6	1904.0
26	202	120.8	92.7	66.8	97.3	159.1	166.4	212.8	228.4	233.5	275.5	267.0	207.0	2126.0
26	203	73.1	65.0	42.3	41.6	161.7	187.3	166.3	188.5	250.0	294.0	307.6	360.7	2139.0
26	204	130.6	79.4	59.2	30.9	118.2	226.8	251.2	245.7	265.0	316.1	287.0	131.0	2141.0
26	205	64.0	56.0	37.5	106.8	174.4	177.5	206.8	261.4	271.6	332.8	225.5	95.3	2010.0
26	206	53.9	35.3	31.1	88.5	206.8	213.6	135.8	169.3	211.9	244.7	312.5	165.2	1869.0
26	207	101.6	44.8	47.9	89.6	175.0	190.9	269.6	324.4	259.5	420.7	498.0	413.6	2838.0
26	208	378.3	68.5	45.4	48.8	115.5	135.3	94.1	115.6	167.6	240.3	285.4	257.9	1952.0
26	209	136.6	90.4	80.6	79.7	168.9	284.0	282.3	271.1	225.6	240.9	322.4	209.1	2392.0
26	210	59.8	52.4	42.6	94.7	251.4	221.5	215.9	204.7	205.5	258.0	240.7	401.3	2250.0
26	211	120.7	71.4	53.4	84.0	156.1	211.4	267.4	283.5	237.2	303.9	322.2	524.2	2633.0
26	212	230.5	96.4	64.9	63.0	145.2	201.3	142.1	165.0	195.7	203.9	333.9	230.1	2071.0
26	213	115.4	68.7	39.3	73.6	185.9	272.9	257.7	218.3	242.2	280.5	344.9	290.2	2389.0
26	214	77.3	58.4	45.3	56.4	183.9	176.5	205.1	241.1	191.3	328.6	443.4	279.9	2286.0
26	215	110.9	64.9	63.5	110.1	135.5	180.1	208.7	258.8	284.6	367.1	297.9	165.6	2250.0
26	216	83.0	72.5	52.4	67.5	157.4	255.0	250.2	277.2	224.2	328.6	327.0	190.0	2284.0
26	217	100.6	55.5	46.1	49.0	133.1	172.5	245.8	315.2	291.8	421.1	396.0	203.5	2432.0
26	218	97.6	59.0	38.2	46.7	140.9	219.3	234.5	230.8	174.2	273.4	401.0	113.2	2028.0
26	219	76.5	38.0	36.7	31.3	130.4	186.5	196.4	233.9	213.8	234.0	206.0	142.2	1725.0
26	220	84.3	60.4	39.4	46.6	127.9	192.5	196.4	232.1	233.1	280.8	263.8	207.2	1963.0
26	221	67.3	58.8	37.5	54.5	125.0	185.9	218.8	177.4	222.1	250.1	346.6	109.8	1854.0
26	222	61.4	59.0	40.3	39.0	139.1	183.1	223.1	261.7	243.8	312.7	339.9	193.2	2096.0
26	223	173.1	88.3	53.5	86.5	177.3	259.3	240.3	216.5	209.1	308.6	401.3	286.7	2501.0
26	224	179.2	79.9	62.8	65.2	249.5	282.4	271.7	268.0	254.8	257.8	241.6	165.5	2380.0
26	225	106.7	66.8	43.9	68.6	197.2	242.7	243.6	278.6	231.2	239.4	221.2	228.7	2170.0
26	226	90.1	61.3	40.2	48.0	191.0	164.7	91.4	66.5	153.1	217.5	316.0	353.4	1792.0
26	227	122.1	39.4	30.1	33.5	116.8	156.5	190.8	235.2	217.4	348.2	367.3	312.4	2168.0
26	228	119.1	67.6	45.6	50.1	174.7	242.8	245.0	261.1	258.1	252.6	222.6	172.0	2113.0
26	229	118.8	52.6	39.3	34.9	104.9	144.8	235.4	278.5	205.5	228.9	329.6	276.8	2052.0
26	230	95.2	56.2	46.2	111.2	215.5	181.6	200.5	189.3	193.0	267.5	311.2	116.1	1982.0
26	231	56.1	44.5	35.6	57.4	165.0	173.8	196.0	225.1	223.3	234.7	279.0	259.7	1951.0
26	232	117.8	94.8	49.2	38.6	166.6	167.3	147.8	137.1	183.7	247.1	387.1	359.6	2098.0
26	233	235.4	82.1	58.5	36.7	134.5	241.1	258.0	226.5	251.3	307.8	347.2	555.8	2735.0
26	234	144.5	66.5	45.7	54.8	141.9	195.8	239.6	202.6	220.0	254.4	382.9	182.0	2131.0
26	235	96.7	52.8	32.2	39.1	114.4	194.1	195.1	286.0	272.0	319.0	353.6	166.0	2121.0
26	236	71.1	35.7	34.7	49.0	173.0	202.0	215.3	274.5	254.6	245.4	279.9	169.3	2005.0
26	237	57.1	48.5	48.3	46.3	123.6	197.0	281.5	300.3	291.2	256.8	187.4	160.0	1996.0
26	238	86.0	57.3	35.9	34.0	132.8	110.9	133.9	168.8	196.7	244.9	238.6	117.3	1558.0
26	239	90.9	66.5	40.9	80.6	129.2	198.0	172.2	232.2	236.6	361.4	356.4	343.1	2307.0
26	240	131.9	50.9	38.8	149.6	331.0	226.1	198.4	216.0	235.1	331.6	341.5	281.3	2532.0

26	241	80.5	60.9	56.7	41.5	101.9	145.7	95.7	177.5	248.8	245.8	374.1	416.0	2046.0
26	242	201.2	72.9	49.1	81.0	147.7	232.3	253.3	211.5	210.7	304.0	364.8	286.2	2415.0
26	243	84.9	55.0	32.3	30.5	106.6	116.7	140.9	147.8	181.3	330.7	457.5	293.0	1978.0
26	244	218.5	97.0	64.8	129.7	177.3	162.8	211.3	197.4	180.2	257.1	338.4	168.2	2202.0
26	245	80.6	34.0	22.8	33.2	145.3	230.6	270.8	242.4	191.5	253.6	252.4	214.6	1973.0
26	246	170.6	78.6	43.9	67.3	124.4	165.7	191.8	160.8	270.2	370.6	314.1	167.7	2127.0
26	247	123.9	68.8	43.5	37.4	114.7	215.9	207.8	247.0	200.7	263.7	374.1	274.0	2172.0
26	248	86.9	33.7	28.9	63.6	125.0	176.8	202.4	233.0	211.1	278.2	341.3	396.0	2177.0
26	249	236.6	127.6	125.9	194.8	231.9	301.7	298.7	270.4	237.6	282.8	359.4	371.9	3041.0
26	250	141.3	79.3	76.2	183.0	203.2	283.0	246.9	220.1	241.0	297.9	348.6	151.4	2471.0
26	251	63.8	47.4	29.9	37.1	143.3	145.3	221.6	252.7	277.6	302.1	189.2	206.5	1916.0
26	252	110.8	64.1	46.9	55.2	175.1	193.2	183.5	141.5	175.2	289.8	327.1	292.8	2055.0
26	253	91.7	57.6	39.7	32.4	110.7	168.9	175.0	216.6	259.6	346.7	260.6	251.7	2014.0
26	254	108.7	80.5	58.0	42.6	140.6	208.0	252.2	219.9	205.8	299.9	351.7	221.0	2190.0
26	255	106.2	66.4	36.6	69.1	190.2	184.1	264.1	295.5	283.2	275.6	319.3	184.3	2274.0
26	256	100.7	55.1	42.2	56.0	160.8	137.1	172.8	249.2	221.4	298.3	280.5	196.1	1970.0
26	257	137.3	61.5	39.5	51.9	144.2	239.0	179.9	252.9	193.6	307.1	247.1	263.2	2117.0
26	258	75.1	47.8	43.3	98.1	212.7	211.9	252.0	312.5	253.3	325.8	345.9	247.0	2425.0
26	259	83.8	53.6	30.7	44.9	110.1	207.1	148.3	161.2	149.2	232.7	216.6	250.4	1689.0
26	260	120.5	91.1	59.6	63.0	272.3	221.0	241.4	253.0	274.6	303.1	271.2	274.8	2445.0
26	261	101.8	57.1	41.8	73.5	234.9	166.9	203.8	201.5	236.5	428.2	331.5	182.2	2258.0
26	262	92.3	49.3	40.8	64.1	198.3	241.8	280.6	276.5	250.6	318.5	304.8	247.3	2365.0
26	263	102.9	60.8	41.0	43.4	102.5	188.0	163.3	199.7	245.1	273.8	418.7	391.9	2231.0
26	264	103.8	77.8	59.2	70.6	119.5	170.8	241.5	230.4	296.8	319.1	270.9	268.5	2229.0
26	265	98.4	57.1	40.7	43.9	132.0	195.9	145.9	132.2	187.2	280.6	317.7	152.8	1785.0
26	266	76.3	44.8	34.5	77.4	194.2	221.3	245.1	283.5	292.1	342.4	531.6	373.5	2714.0
26	267	81.0	70.1	52.9	90.5	186.2	208.3	249.5	268.4	274.2	301.0	284.9	382.2	2448.0
26	268	99.9	51.4	27.6	50.7	151.6	179.7	170.9	267.9	229.7	270.6	378.2	174.3	2054.0
26	269	91.7	46.2	25.7	31.7	122.3	137.1	112.2	171.3	278.2	280.2	285.5	264.9	1846.0
26	270	94.5	55.4	35.4	46.3	107.5	199.1	195.0	250.3	257.1	225.6	437.3	555.4	2457.0
26	271	101.0	47.1	29.6	36.3	192.9	164.1	193.1	225.5	270.5	265.0	348.3	185.1	2057.0
26	272	80.4	50.0	35.1	33.1	151.4	166.5	120.1	133.2	221.7	264.3	379.4	245.0	1878.0
26	273	80.6	67.3	52.3	68.2	276.3	157.9	210.8	272.8	285.5	383.2	318.2	127.4	2300.0
26	274	79.8	65.2	40.2	49.7	199.4	211.1	212.0	259.9	201.2	308.8	324.6	175.0	2127.0
26	275	161.2	95.8	51.9	145.4	238.0	267.5	247.4	231.8	184.8	194.2	326.2	212.6	2357.0
26	276	91.8	47.8	25.2	23.2	84.4	79.9	112.0	251.0	244.0	358.3	504.0	303.2	2124.0
26	277	92.1	52.5	46.5	62.0	200.1	202.7	163.6	184.7	195.1	220.4	190.3	125.5	1736.0
26	278	77.5	48.6	30.1	37.7	106.1	194.4	205.5	194.0	213.5	257.8	338.3	91.2	1794.0
26	279	77.6	80.4	89.4	56.0	140.5	252.6	236.1	251.1	247.7	287.9	397.1	302.8	2420.0
26	280	121.1	75.3	49.4	54.1	165.2	150.4	180.7	211.0	234.7	385.6	474.0	250.7	2352.0
26	281	93.2	52.1	40.2	55.1	130.3	152.8	165.2	245.3	239.2	218.8	252.9	192.5	1837.0
26	282	164.9	121.7	89.6	166.3	246.8	186.6	174.5	118.2	177.0	219.4	329.5	480.7	2477.0
26	283	503.4	78.5	52.1	84.3	187.7	142.4	159.3	193.5	211.7	229.4	237.9	444.3	2524.0
26	284	77.3	39.7	20.1	37.5	116.1	153.1	216.1	269.5	251.1	303.3	382.2	352.7	2218.0
26	285	96.5	51.0	40.0	44.3	171.2	153.1	174.4	289.5	272.7	360.3	367.1	229.9	2250.0
26	286	83.4	54.2	48.1	76.9	161.1	212.4	179.2	247.3	278.4	338.1	368.3	295.6	2341.0
26	287	79.4	67.7	54.9	76.1	132.0	202.6	221.3	278.6	212.9	251.5	339.0	297.0	2214.0
26	288	117.5	52.7	35.2	130.7	165.6	157.5	209.6	229.9	193.7	225.8	242.1	156.0	1919.0
26	289	86.8	51.8	34.8	43.1	148.2	172.7	252.0	292.9	290.0	407.0	376.5	119.3	2275.0
26	290	93.3	51.6	30.7	62.5	169.6	174.5	179.6	257.1	235.3	298.6	453.6	357.3	2366.0
26	291	143.9	97.1	74.3	76.1	129.6	161.9	180.1	134.2	173.0	302.6	423.1	337.2	2233.0
26	292	103.6	55.2	38.8	50.9	146.4	172.0	200.5	212.9	251.2	255.6	218.5	267.8	1974.0
26	293	93.7	77.1	42.3	125.0	154.5	96.0	103.8	162.6	196.7	311.6	342.4	308.0	2015.0
26	294	175.2	91.9	65.1	142.4	188.2	186.9	245.0	248.9	270.2	241.0	303.0	161.4	2318.0

26	295	59.9	40.9	27.6	47.5	120.0	144.8	118.5	182.3	228.2	264.5	299.9	295.0	1828.0
26	296	178.0	97.5	69.2	105.1	178.3	169.1	138.1	173.2	172.9	275.5	340.4	490.1	2387.0
26	297	350.5	87.1	71.2	96.9	165.9	163.8	224.8	266.0	246.0	231.1	257.5	164.5	2324.0
26	298	161.0	106.9	68.6	364.1	259.8	291.1	284.3	303.4	263.0	283.5	340.8	318.1	3045.0
26	299	175.3	56.4	30.8	39.7	154.4	166.6	184.2	241.6	273.2	352.9	188.2	211.5	2075.0
26	300	82.7	38.4	29.9	42.0	136.0	180.7	230.8	269.2	254.5	321.5	306.0	362.3	2253.0

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MAXIMUM VOLUMES FOR PERIOD 3 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	503.4	127.6	125.9	364.1	331.0	301.7	298.7	324.4	296.8	428.2	531.6	555.8	555.8	2294.4	11414.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	53.9	33.7	20.1	23.2	84.4	79.9	91.4	66.5	149.2	194.2	187.4	91.2	20.1	352.5	8095.
STA 26 MONTH 1	MEAN	116.90	VARIANCE	4529.18	STAN. DEV.	67.30									
STA 26 MONTH 2	MEAN	64.08	VARIANCE	394.59	STAN. DEV.	19.86									
STA 26 MONTH 3	MEAN	46.00	VARIANCE	280.75	STAN. DEV.	16.76									
STA 26 MONTH 4	MEAN	69.34	VARIANCE	2109.11	STAN. DEV.	45.93									
STA 26 MONTH 5	MEAN	160.68	VARIANCE	2227.01	STAN. DEV.	47.19									
STA 26 MONTH 6	MEAN	189.59	VARIANCE	2119.38	STAN. DEV.	46.04									
STA 26 MONTH 7	MEAN	200.61	VARIANCE	2777.83	STAN. DEV.	52.71									
STA 26 MONTH 8	MEAN	224.37	VARIANCE	3055.81	STAN. DEV.	55.28									
STA 26 MONTH 9	MEAN	228.85	VARIANCE	1791.05	STAN. DEV.	42.32									
STA 26 MONTH 10	MEAN	285.65	VARIANCE	3368.51	STAN. DEV.	58.04									
STA 26 MONTH 11	MEAN	322.48	VARIANCE	6120.35	STAN. DEV.	78.23									
STA 26 MONTH 12	MEAN	252.15	VARIANCE	11226.64	STAN. DEV.	105.96									

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 4

STA 26 MONTH 1	MEAN	0.011	STD DEVO	0.055
STA 26 MONTH 2	MEAN	0.009	STD DEVO	0.054
STA 26 MONTH 3	MEAN	0.002	STD DEVO	0.052
STA 26 MONTH 4	MEAN	0.011	STD DEVO	0.060
STA 26 MONTH 5	MEAN	0.005	STD DEVO	0.064
STA 26 MONTH 6	MEAN	0.004	STD DEVO	0.065
STA 26 MONTH 7	MEAN	-0.003	STD DEVO	0.067
STA 26 MONTH 8	MEAN	-0.010	STD DEVO	0.064
STA 26 MONTH 9	MEAN	-0.006	STD DEVO	0.070
STA 26 MONTH 10	MEAN	0.000	STD DEVO	0.064
STA 26 MONTH 11	MEAN	-0.001	STD DEVO	0.069
STA 26 MONTH 12	MEAN	0.005	STD DEVO	0.064

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
26	301	337.9	90.4	61.5	51.7	144.7	217.9	231.8	267.3	267.8	325.9	359.5	380.2	2736.0
26	302	116.0	107.7	92.0	54.2	189.2	219.6	237.6	230.2	193.5	245.2	329.7	253.7	2269.0
26	303	93.9	61.6	49.9	392.2	246.9	228.6	254.2	243.8	266.6	342.6	302.9	121.6	2607.0
26	304	80.2	60.3	49.7	87.0	182.6	165.7	195.6	101.6	208.5	241.5	394.2	172.3	1940.0
26	305	84.7	44.6	45.7	29.3	100.9	125.4	136.8	235.1	264.4	332.7	366.5	140.3	1907.0
26	306	76.1	31.4	28.8	67.2	140.5	171.6	217.0	202.3	232.9	296.8	363.7	277.1	2106.0
26	307	151.6	56.5	44.2	68.7	139.1	141.8	161.7	282.7	275.8	280.3	516.0	323.4	2442.0
26	308	129.5	76.5	60.5	57.2	183.3	252.3	277.0	297.2	290.1	476.4	323.3	368.3	2790.0
26	309	238.1	120.9	45.6	54.0	104.7	186.4	222.4	217.6	270.3	285.2	544.3	483.8	2773.0
26	310	158.3	86.4	55.7	282.1	221.7	217.8	261.8	297.9	268.3	280.9	275.3	217.2	2623.0
26	311	63.0	43.6	29.7	62.2	141.5	195.3	237.2	220.7	258.7	270.8	263.7	480.9	2268.0

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26	312	177.3	82.0	75.9	75.0	125.1	109.5	154.4	232.8	239.6	279.5	256.2	161.1	1967.0
26	313	65.4	35.7	26.8	39.3	124.1	221.8	223.0	275.2	265.7	294.4	365.3	111.1	2047.0
26	314	82.9	66.8	49.9	68.5	206.0	203.8	184.6	207.2	206.7	251.5	221.0	229.0	1979.0
26	315	109.2	66.1	41.4	53.0	150.8	203.7	162.3	214.8	218.1	341.2	452.5	361.2	2373.0
26	316	135.4	60.7	51.2	128.9	159.5	204.5	254.8	222.3	159.7	197.6	288.5	160.9	2023.0
26	317	88.7	44.1	38.6	67.5	204.2	197.1	263.5	279.2	274.8	395.4	440.7	350.5	2644.0
26	318	73.3	55.5	47.4	46.3	182.1	199.0	254.6	281.8	229.6	367.6	284.3	199.3	2220.0
26	319	145.8	54.5	37.9	44.5	128.6	188.9	171.2	262.6	237.9	263.1	307.7	125.5	1969.0
26	320	105.7	56.8	35.3	55.9	168.1	228.0	190.0	260.1	234.4	309.6	283.3	169.2	2096.0
26	321	104.4	52.2	40.7	76.2	144.7	175.7	148.6	152.7	204.8	243.5	337.1	110.7	1793.0
26	322	64.3	46.0	31.1	55.2	103.8	243.9	256.7	301.6	267.8	309.7	271.8	198.9	2152.0
26	323	73.1	48.9	47.1	40.1	127.5	215.6	262.0	287.9	219.3	314.1	223.9	386.9	2247.0
26	324	89.8	70.9	38.4	34.2	140.5	161.0	169.4	236.6	229.2	342.8	319.8	275.6	2108.0
26	325	84.8	64.8	47.8	58.7	178.8	291.4	290.6	285.6	231.4	325.7	412.2	339.0	2612.0
26	326	129.6	52.6	25.9	36.8	141.7	159.4	159.7	207.9	162.8	211.0	345.6	299.2	1934.0
26	327	91.0	33.5	24.0	38.5	124.9	192.3	191.4	233.1	189.0	252.8	301.9	190.0	1862.0
26	328	77.9	56.2	33.8	30.2	96.9	105.2	79.3	90.0	208.7	277.3	388.3	237.0	1680.0
26	329	152.4	75.8	65.6	55.7	162.6	165.1	203.8	253.4	205.9	282.7	422.1	203.8	2250.0
26	330	59.2	39.6	19.4	42.4	151.5	236.1	230.8	230.9	212.1	269.6	225.9	242.6	1961.0
26	331	126.8	77.8	41.3	120.9	231.2	197.2	150.3	180.2	230.7	228.7	253.2	88.2	1926.0
26	332	53.3	30.2	22.1	32.5	144.1	178.3	265.5	264.7	250.4	230.5	248.7	222.5	1941.0
26	333	80.0	44.9	30.3	45.6	227.5	270.6	219.2	248.4	222.4	258.4	458.1	617.2	2721.0
26	334	233.1	110.8	92.3	91.3	177.7	213.3	226.3	260.5	264.1	221.8	367.9	310.6	2569.0
26	335	133.4	63.8	33.7	47.7	156.9	165.1	275.2	268.5	199.3	275.9	209.4	265.1	2093.0
26	336	115.2	73.1	71.0	97.6	189.9	195.2	222.8	200.4	235.9	266.9	343.1	185.8	2197.0
26	337	109.0	93.3	55.4	52.8	137.6	146.6	173.5	173.4	256.1	308.0	232.6	226.5	1965.0
26	338	145.8	53.2	24.8	28.5	114.7	165.1	200.2	212.6	240.4	331.2	418.8	306.6	2243.0
26	339	119.1	119.3	92.6	63.8	132.4	128.0	120.5	194.0	223.7	322.9	313.6	348.1	2178.0
26	340	135.9	89.7	40.9	71.7	191.0	215.9	256.5	286.3	279.6	286.7	381.0	260.5	2496.0
26	341	201.6	81.3	68.6	267.4	300.2	284.2	213.8	217.0	240.9	247.0	343.8	387.2	2853.0
26	342	160.3	89.8	50.5	50.2	110.6	171.5	177.4	174.8	257.1	256.0	266.9	216.3	1981.0
26	343	89.8	61.4	45.2	45.4	101.0	141.6	222.7	255.9	298.3	323.8	381.7	186.6	2154.0
26	344	69.4	36.4	33.0	41.3	125.5	176.3	189.7	265.0	246.9	379.3	264.1	280.5	2106.0
26	345	162.1	61.5	42.1	53.3	141.0	177.2	135.0	114.0	129.8	225.0	224.7	211.0	1676.0
26	346	67.7	59.0	45.8	59.7	156.7	250.9	272.0	304.3	260.4	317.5	317.6	104.7	2218.0
26	347	53.6	54.9	48.8	131.1	200.7	250.5	233.2	278.4	267.3	231.1	324.9	252.3	2327.0
26	348	238.7	75.8	51.1	118.2	148.4	241.3	216.5	274.8	278.7	299.0	369.4	190.6	2502.0
26	349	73.4	54.0	38.0	42.4	121.7	179.2	222.8	276.8	286.6	291.3	448.0	306.6	2341.0
26	350	116.4	61.9	43.6	54.6	164.6	195.9	210.0	273.6	267.8	341.2	298.6	192.7	2223.0
26	351	107.1	73.0	60.0	86.9	128.7	131.9	130.1	234.4	245.2	279.9	350.4	210.1	2037.0
26	352	80.8	48.4	48.4	80.5	177.9	172.3	243.0	292.3	285.5	317.0	276.3	176.8	2197.0
26	353	88.8	54.8	40.6	66.8	145.0	133.5	154.1	177.3	170.7	218.7	411.8	141.1	1805.0
26	354	64.3	41.1	31.4	36.3	131.6	136.2	159.4	156.0	219.3	272.3	276.6	175.8	1699.0
26	355	64.0	52.0	52.9	47.4	136.1	168.2	140.5	163.6	202.2	313.9	311.5	348.3	2000.0
26	356	141.8	69.2	45.5	35.8	86.7	144.3	105.7	118.8	222.0	353.6	516.9	375.3	2217.0
26	357	82.5	79.3	47.1	59.5	156.7	161.8	227.6	193.8	197.2	236.8	305.6	130.7	1879.0
26	358	98.0	46.5	35.7	94.1	193.7	182.3	170.2	232.5	227.7	252.0	312.7	278.7	2125.0
26	359	134.4	66.8	49.0	35.6	180.5	246.4	233.7	196.0	194.8	303.2	374.5	233.7	2249.0
26	360	108.1	62.9	46.9	31.1	115.1	159.5	169.8	227.6	194.7	244.9	379.5	514.1	2255.0
26	361	129.7	78.7	46.7	62.1	178.3	175.4	201.3	222.2	163.1	273.3	352.9	152.2	2035.0
26	362	102.9	56.5	31.1	35.9	137.2	114.4	185.4	127.8	168.7	254.5	239.7	360.0	1815.0
26	363	140.6	79.1	39.4	39.0	107.9	202.7	153.7	175.4	185.5	245.9	301.5	300.8	1973.0
26	364	171.0	71.1	49.9	56.6	152.4	241.9	201.1	217.0	257.0	298.3	308.2	367.8	2392.0
26	365	102.8	84.8	69.4	229.7	345.0	231.4	192.7	210.9	260.5	328.6	338.8	401.7	2797.0

26	366	140.5	47.0	31.7	82.5	137.8	166.1	180.7	201.0	244.7	250.2	198.3	120.2	1801.0
26	367	102.5	66.7	48.4	100.0	214.0	195.3	195.6	244.9	229.9	422.0	296.5	243.9	2361.0
26	368	105.4	73.8	38.6	42.5	131.1	145.9	199.5	281.6	210.0	212.8	304.8	207.2	1954.0
26	369	173.7	74.7	48.9	76.7	152.5	125.7	157.0	197.1	194.8	308.8	297.2	306.2	2114.0
26	370	199.9	94.7	72.9	53.9	134.0	201.4	211.1	240.2	232.9	252.2	297.6	165.6	2157.0
26	371	116.5	58.4	36.2	73.6	164.0	164.8	176.4	256.7	243.5	280.1	392.1	260.9	2223.0
26	372	121.1	74.3	32.2	44.3	195.6	232.2	219.5	277.8	256.9	268.5	238.2	157.6	2118.0
26	373	107.4	56.0	57.8	54.6	137.1	190.5	242.8	293.5	267.8	231.4	198.7	115.4	1954.0
26	374	63.4	51.1	52.3	87.5	179.1	132.5	152.2	198.6	203.9	276.7	265.9	276.8	1941.0
26	375	67.5	69.6	60.4	63.4	154.0	259.2	302.0	294.7	297.7	466.8	438.8	523.9	2998.0
26	376	83.6	50.1	33.5	30.0	104.4	105.6	103.9	132.7	192.6	254.8	327.4	306.4	1726.0
26	377	166.7	115.3	73.5	72.1	274.3	261.7	235.9	225.3	205.4	286.0	301.3	112.4	2328.0
26	378	88.6	62.7	58.5	154.3	202.6	201.9	184.0	195.5	215.4	232.3	402.7	229.1	2229.0
26	379	100.2	65.1	53.1	47.5	161.6	246.6	255.5	249.4	250.8	292.4	465.6	346.1	2535.0
26	380	135.1	73.3	48.2	46.7	157.5	135.1	145.3	174.2	162.4	286.7	313.1	276.5	1952.0
26	381	110.5	49.6	42.9	67.9	238.8	225.3	179.0	233.7	230.2	302.2	354.9	158.0	2194.0
26	382	89.4	60.6	43.5	85.0	153.2	199.2	228.3	192.5	259.0	389.3	358.1	251.5	2310.0
26	383	98.4	88.6	73.7	36.6	131.9	187.1	236.7	306.0	280.2	280.9	271.8	219.9	2213.0
26	384	146.9	76.7	56.0	58.1	220.2	222.0	248.6	230.6	260.4	295.6	290.4	261.8	2368.0
26	385	86.5	64.0	42.1	43.3	137.5	232.8	295.4	325.0	300.0	368.5	311.6	251.3	2458.0
26	386	94.7	51.0	35.3	46.3	174.7	210.1	202.7	155.3	223.2	342.8	223.4	227.2	1986.0
26	387	62.3	56.2	29.9	53.0	161.4	189.2	220.2	218.8	201.8	212.9	240.2	232.6	1878.0
26	388	108.1	55.5	37.8	39.2	148.5	178.7	211.0	237.7	235.4	250.1	297.4	143.8	1944.0
26	389	101.5	51.8	39.4	34.5	136.9	195.8	148.4	204.9	206.6	299.8	216.4	154.8	1791.0
26	390	125.5	62.8	37.7	55.3	156.2	213.2	245.8	262.3	257.4	307.6	294.8	421.6	2440.0
26	391	169.9	69.5	57.1	64.8	222.0	209.2	181.8	192.2	243.8	345.6	356.8	371.7	2486.0
26	392	124.2	80.7	54.0	213.0	318.8	257.1	240.4	268.5	223.8	236.8	264.3	290.0	2572.0
26	393	117.1	59.6	47.8	90.6	216.6	221.3	254.4	243.9	209.3	223.3	308.5	210.8	2203.0
26	394	97.1	52.8	36.5	98.0	147.6	112.3	59.7	106.3	166.5	270.1	380.2	244.3	1770.0
26	395	54.0	36.8	22.2	33.3	120.5	179.1	218.5	221.4	267.5	326.3	372.4	256.2	2107.0
26	396	99.9	56.8	38.3	76.4	216.5	222.7	235.4	272.5	220.3	225.0	268.0	316.5	2247.0
26	397	79.2	52.6	29.9	30.0	113.8	223.4	260.8	217.5	200.0	293.2	346.9	211.2	2059.0
26	398	82.0	61.0	59.1	88.8	149.8	189.8	170.7	177.3	220.3	276.9	221.6	120.4	1818.0
26	399	80.9	56.5	44.8	64.6	145.4	188.5	210.9	228.5	202.4	257.7	332.1	268.9	2082.0
26	400	190.7	61.7	34.3	84.4	151.7	156.5	129.0	161.0	202.8	328.8	392.9	407.8	2303.0

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MAXIMUM VOLUMES FOR PERIOD 4 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	337.9	120.9	92.6	392.2	345.0	291.4	302.0	325.0	300.0	476.4	544.3	617.2	617.2	2324.0	12311.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	53.3	30.2	19.4	28.5	86.7	105.2	59.7	90.0	129.8	197.6	198.3	88.2	19.4	370.4	8227.
STA 26 MONTH 1 MEAN	112.42	VARIANCE	2248.96	STAN.	DEV.	47.42									
STA 26 MONTH 2 MEAN	63.75	VARIANCE	382.93	STAN.	DEV.	19.57									
STA 26 MONTH 3 MEAN	45.81	VARIANCE	239.59	STAN.	DEV.	15.48									
STA 26 MONTH 4 MEAN	70.74	VARIANCE	3077.80	STAN.	DEV.	55.48									
STA 26 MONTH 5 MEAN	160.72	VARIANCE	2405.21	STAN.	DEV.	49.04									
STA 26 MONTH 6 MEAN	189.92	VARIANCE	2090.46	STAN.	DEV.	45.72									
STA 26 MONTH 7 MEAN	201.65	VARIANCE	2673.27	STAN.	DEV.	51.70									
STA 26 MONTH 8 MEAN	225.40	VARIANCE	3043.83	STAN.	DEV.	55.17									
STA 26 MONTH 9 MEAN	229.41	VARIANCE	1791.26	STAN.	DEV.	42.32									
STA 26 MONTH 10 MEAN	285.69	VARIANCE	3515.78	STAN.	DEV.	59.29									

STA 26 MONTH 11 MEAN 321.58 VARIANCE 6281.27 STAN. DEV. 79.25
 STA 26 MONTH 12 MEAN 251.58 VARIANCE 10962.10 STAN. DEV. 104.70

1

GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 5
 STA 26 MONTH 1 MEAN-0.005 STD DEVO.061
 STA 26 MONTH 2 MEAN-0.009 STD DEVO.066
 STA 26 MONTH 3 MEAN-0.005 STD DEVO.068
 STA 26 MONTH 4 MEAN-0.006 STD DEVO.068
 STA 26 MONTH 5 MEAN-0.004 STD DEVO.064
 STA 26 MONTH 6 MEAN 0.002 STD DEVO.064
 STA 26 MONTH 7 MEAN 0.002 STD DEVO.064
 STA 26 MONTH 8 MEAN 0.004 STD DEVO.068
 STA 26 MONTH 9 MEAN 0.004 STD DEVO.064
 STA 26 MONTH 10 MEAN 0.010 STD DEVO.070
 STA 26 MONTH 11 MEAN 0.003 STD DEVO.064
 STA 26 MONTH 12 MEAN 0.006 STD DEVO.053

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
26	401	127.7	73.3	37.8	58.7	220.0	238.7	190.4	242.0	245.2	298.3	484.6	237.1	2454.0
26	402	91.3	57.3	39.4	48.5	154.4	219.0	166.5	198.0	203.3	315.9	277.1	255.9	2024.0
26	403	90.7	49.0	32.3	36.2	147.4	174.2	264.8	286.3	261.8	309.9	267.8	163.8	2084.0
26	404	62.0	56.9	40.3	83.3	180.4	203.4	256.8	266.0	211.3	258.7	263.2	92.1	1973.0
26	405	93.3	80.3	48.1	46.9	163.7	276.6	276.0	308.5	226.2	208.9	249.4	225.2	2203.0
26	406	106.7	55.1	32.4	55.1	108.4	153.7	163.0	183.7	198.7	230.5	208.6	281.1	1778.0
26	407	145.2	63.6	51.5	38.4	145.9	152.4	203.7	229.0	270.7	307.0	387.9	275.2	2270.0
26	408	74.1	53.3	53.5	205.1	209.5	184.2	190.3	226.3	257.7	295.8	349.3	157.7	2257.0
26	409	105.2	82.5	44.7	33.4	118.1	108.6	163.3	244.5	203.7	313.9	424.4	371.3	2213.0
26	410	105.8	61.7	47.7	46.7	179.3	222.8	166.4	181.7	235.4	305.0	350.9	170.1	2074.0
26	411	89.6	47.2	27.1	35.2	103.0	150.1	131.0	153.7	250.0	372.1	362.4	472.4	2193.0
26	412	183.1	83.3	66.2	64.7	133.4	200.6	171.4	155.1	203.7	286.5	262.2	201.1	2011.0
26	413	58.2	37.9	25.4	57.7	197.8	253.9	206.0	169.2	202.2	236.9	293.0	429.9	2168.0
26	414	143.1	59.8	44.8	36.5	123.9	174.5	126.4	257.9	272.0	278.7	264.0	357.2	2139.0
26	415	131.5	63.3	36.5	40.3	174.0	185.0	219.1	187.3	214.3	312.6	344.6	180.7	2090.0
26	416	54.9	44.4	37.4	34.5	126.7	178.4	202.1	195.5	224.3	291.7	411.3	430.4	2229.0
26	417	266.5	161.5	103.7	137.0	337.7	293.9	229.1	227.2	229.5	304.8	401.3	283.2	2976.0
26	418	130.2	100.6	81.3	84.0	264.5	212.4	174.9	221.8	235.5	296.4	249.6	133.8	2185.0
26	419	89.0	49.2	32.2	59.5	129.0	219.9	238.6	291.6	253.1	210.3	287.5	281.5	2141.0
26	420	113.0	67.4	45.2	84.5	172.1	177.2	113.9	137.9	222.5	278.5	350.3	187.3	1949.0
26	421	93.1	56.5	31.3	38.8	137.0	167.3	195.8	260.5	268.0	249.0	325.1	253.1	2074.0
26	422	156.9	80.8	44.2	63.1	184.8	239.9	189.5	187.0	237.0	298.7	307.0	263.5	2253.0
26	423	119.5	52.7	42.4	80.2	155.6	256.3	274.7	301.1	239.6	286.9	280.9	269.4	2360.0
26	424	95.5	63.0	44.2	67.4	123.2	177.8	240.8	227.7	246.1	260.0	285.9	369.4	2200.0
26	425	104.3	56.5	39.6	52.2	198.4	157.5	225.9	180.3	243.2	237.4	328.7	141.5	1964.0
26	426	77.8	64.6	54.7	99.1	184.8	237.0	291.9	272.2	266.3	305.9	331.0	181.0	2367.0
26	427	89.8	46.0	33.0	31.6	147.9	130.3	123.4	106.0	171.8	213.3	311.0	279.0	1683.0
26	428	188.2	81.1	52.2	275.0	238.3	238.5	235.6	286.1	252.3	256.3	342.0	224.1	2669.0
26	429	91.8	59.3	46.5	137.2	154.3	203.5	184.3	231.1	291.8	293.3	279.3	240.8	2213.0
26	430	83.7	62.1	46.4	102.1	227.0	271.7	246.8	252.9	255.8	274.8	325.4	239.8	2389.0
26	431	102.5	58.6	37.4	30.4	136.7	146.2	168.3	232.7	222.4	344.5	415.7	195.4	2089.0
26	432	132.9	78.8	53.3	36.3	129.0	221.7	198.6	303.6	258.4	255.6	337.4	216.6	2223.0
26	433	92.7	58.1	37.4	47.7	158.7	139.7	102.1	148.1	215.8	272.3	246.4	190.8	1710.0
26	434	78.8	55.1	46.7	83.6	190.4	225.5	259.2	307.2	273.4	455.7	421.3	142.9	2539.0
26	435	123.0	73.8	56.6	79.6	177.7	233.3	243.3	283.6	249.9	263.9	404.0	186.0	2376.0
26	436	75.9	39.4	30.7	49.4	139.6	158.7	249.6	234.3	227.5	320.6	273.8	244.1	2045.0

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26	437	78.1	40.6	25.6	42.8	116.7	125.2	158.3	281.7	234.1	261.9	334.7	206.2	1907.0
26	438	89.8	51.3	35.5	31.0	142.3	168.2	220.1	256.6	186.2	358.1	490.4	157.9	2187.0
26	439	65.7	40.5	26.6	103.8	151.2	194.2	212.4	279.5	226.3	301.9	281.7	193.6	2079.0
26	440	87.2	54.2	31.6	76.0	153.4	134.4	117.8	201.5	212.0	314.6	324.9	169.2	1877.0
26	441	127.0	76.5	53.0	266.5	163.7	221.5	267.3	308.4	290.9	292.4	231.7	228.8	2527.0
26	442	145.0	63.5	42.9	123.7	203.4	203.7	243.1	199.1	248.4	285.5	271.0	456.0	2484.0
26	443	224.1	72.0	64.3	113.3	251.7	219.2	193.0	157.7	137.3	274.6	294.4	218.2	2219.0
26	444	78.0	39.0	19.4	26.5	82.3	133.5	251.4	261.4	278.6	429.8	379.0	192.8	2170.0
26	445	83.3	66.8	47.1	109.0	186.1	161.0	163.7	174.2	171.1	202.8	211.8	209.8	1787.0
26	446	89.7	48.8	32.1	32.6	144.6	181.4	157.5	188.0	204.5	286.6	184.6	249.3	1801.0
26	447	242.0	157.3	73.9	72.7	252.2	216.6	223.6	246.6	237.0	333.3	366.8	267.4	2690.0
26	448	131.2	67.0	44.0	73.4	134.3	182.7	197.2	232.7	281.0	397.1	340.4	213.6	2294.0
26	449	85.2	59.0	42.0	42.6	122.7	160.3	229.6	243.2	181.1	240.1	278.3	439.6	2124.0
26	450	348.6	125.2	90.0	156.1	174.6	175.0	93.8	137.2	161.1	275.7	443.8	640.5	2822.0
26	451	101.5	60.5	46.7	72.8	122.6	162.6	178.2	200.0	184.8	229.7	423.5	113.3	1899.0
26	452	59.6	30.9	22.6	32.0	112.6	195.6	246.0	256.7	249.1	325.7	395.9	187.2	2116.0
26	453	77.0	56.1	36.6	82.6	139.4	178.8	281.1	297.1	283.4	324.7	322.4	187.5	2267.0
26	454	93.1	72.0	53.8	62.1	176.2	163.8	224.7	287.1	267.9	319.0	363.2	151.8	2235.0
26	455	123.0	78.9	55.9	42.9	156.3	197.2	253.9	210.8	209.5	291.8	357.5	258.2	2235.0
26	456	80.1	49.6	49.5	46.5	118.3	191.3	202.6	176.2	178.3	230.8	244.8	230.7	1800.0
26	457	92.2	53.9	36.2	60.4	147.3	244.6	274.5	309.6	296.0	332.3	226.5	300.8	2375.0
26	458	97.3	49.2	40.3	64.7	144.0	171.6	240.8	240.3	246.0	378.2	403.4	299.1	2374.0
26	459	186.6	97.1	60.9	43.6	129.7	171.3	104.2	132.1	229.0	340.9	383.4	209.0	2088.0
26	460	84.3	54.1	37.9	53.1	140.3	189.0	188.8	247.2	212.2	221.5	328.7	199.4	1955.0
26	461	147.3	59.2	54.8	44.6	89.0	122.2	152.8	179.8	244.3	293.6	364.1	379.1	2131.0
26	462	168.9	84.6	68.8	71.7	152.6	229.8	222.4	275.1	204.1	270.9	257.0	109.4	2116.0
26	463	74.0	46.3	35.0	36.4	113.9	123.3	163.5	216.4	215.8	266.6	352.2	389.5	2032.0
26	464	188.8	90.0	65.1	73.2	143.3	141.7	154.4	147.0	217.4	288.5	453.2	512.1	2473.0
26	465	121.6	83.6	59.3	61.4	135.1	213.8	247.2	253.2	195.6	244.0	256.4	462.5	2334.0
26	466	284.0	96.3	95.7	115.7	280.7	261.0	270.0	269.5	237.7	297.2	372.7	375.3	2956.0
26	467	81.8	42.3	28.6	59.9	139.8	178.1	225.1	283.3	274.4	210.2	291.6	185.7	2001.0
26	468	62.7	46.6	32.6	47.9	145.2	214.6	247.0	261.7	259.3	276.9	395.6	610.3	2602.0
26	469	149.1	72.3	45.7	56.7	183.6	204.7	229.2	270.7	261.4	304.9	416.0	235.3	2430.0
26	470	243.5	110.5	59.5	127.2	221.5	224.1	195.9	168.5	194.8	276.3	331.3	216.4	2369.0
26	471	109.8	70.8	83.8	86.2	182.8	222.8	193.9	258.8	264.7	267.0	221.8	242.9	2207.0
26	472	133.4	78.9	62.4	81.8	144.5	184.5	70.9	160.2	180.9	311.3	270.0	224.7	1903.0
26	473	78.2	71.5	36.1	38.0	112.6	140.9	219.6	274.2	267.7	312.1	247.1	210.8	2010.0
26	474	57.2	51.5	44.7	44.7	132.1	192.8	160.9	210.3	235.4	300.4	351.3	362.3	2142.0
26	475	88.4	61.0	47.4	44.9	114.8	151.5	260.4	292.9	242.0	429.8	396.9	295.0	2424.0
26	476	137.8	78.4	51.0	96.6	247.2	261.7	258.9	303.0	309.5	289.0	411.5	469.0	2913.0
26	477	262.2	56.0	39.9	29.1	129.5	186.3	167.6	260.0	231.3	442.4	477.7	294.2	2575.0
26	478	142.7	67.5	72.6	72.3	168.8	233.1	258.1	274.4	236.5	251.5	305.4	112.2	2195.0
26	479	77.6	50.2	42.1	45.6	149.6	208.6	174.4	246.2	220.4	240.8	452.0	315.3	2223.0
26	480	126.4	87.4	58.4	39.9	97.2	153.1	213.5	239.6	233.1	239.4	256.9	142.2	1886.0
26	481	64.3	48.1	34.2	42.7	176.8	190.3	235.9	268.2	243.7	307.2	214.4	269.4	2094.0
26	482	164.2	79.3	57.7	122.2	192.4	172.3	177.5	184.3	201.6	215.9	305.1	272.3	2144.0
26	483	120.3	59.5	42.8	57.9	168.4	144.2	180.6	197.7	260.9	366.4	410.2	288.5	2297.0
26	484	93.7	67.5	60.9	49.1	153.9	225.1	170.7	114.6	131.8	245.5	251.5	244.5	1808.0
26	485	76.8	61.6	49.1	104.1	176.9	253.4	245.8	284.2	290.5	369.3	408.8	126.1	2446.0
26	486	94.0	68.2	44.0	102.2	186.3	244.8	251.6	228.7	278.3	258.6	293.4	405.8	2456.0
26	487	90.6	55.9	38.3	44.6	149.7	151.4	232.3	235.5	219.7	268.3	225.4	352.7	2065.0
26	488	112.3	56.7	43.4	70.6	198.2	164.5	225.4	227.4	249.4	254.9	266.1	302.3	2169.0
26	489	92.8	62.4	51.2	47.7	137.1	134.5	117.7	166.6	187.4	277.9	207.4	163.6	1646.0
26	490	94.1	55.5	43.8	29.6	174.6	212.3	255.6	269.7	252.4	249.6	291.0	162.6	2093.0

26	491	88.0	73.0	43.7	51.7	185.2	242.4	251.0	211.0	251.6	221.5	405.0	162.3	2187.0
26	492	122.3	53.4	32.2	59.7	140.5	162.4	213.5	224.0	266.9	278.5	350.4	179.9	2082.0
26	493	119.4	68.2	48.4	85.1	302.5	273.8	235.3	215.9	254.9	336.9	394.8	283.1	2617.0
26	494	79.7	39.5	27.6	50.6	130.4	149.3	179.5	130.2	154.6	281.9	359.7	190.2	1775.0
26	495	55.0	40.0	29.1	39.9	146.3	164.5	194.0	160.1	200.2	259.5	281.3	185.5	1756.0
26	496	106.8	53.9	31.1	31.9	95.4	94.7	74.4	170.1	215.9	312.1	323.1	391.6	1901.0
26	497	141.7	86.1	53.5	77.7	148.2	194.8	229.0	196.3	231.8	343.5	303.8	99.3	2105.0
26	498	71.6	36.8	29.5	53.4	192.9	195.9	182.2	182.8	213.9	218.2	315.0	314.3	2006.0
26	499	150.1	57.6	54.6	98.3	165.7	137.3	147.3	208.5	178.8	231.9	177.1	100.9	1708.0
26	500	61.1	46.0	31.1	65.2	157.3	259.5	231.0	250.0	190.3	232.9	304.6	179.1	2007.0

1

MAXIMUM VOLUMES FOR PERIOD 5 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	348.6	161.5	103.7	275.0	337.7	293.9	291.9	309.6	309.5	455.7	490.4	640.5	640.5	2050.8	11824.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	54.9	30.9	19.4	26.5	82.3	94.7	70.9	106.0	131.8	202.8	177.1	92.1	19.4	370.9	8116.
STA 26 MONTH 1 MEAN	115.10	VARIANCE	2923.66	STAN. DEV.		54.07									
STA 26 MONTH 2 MEAN	64.26	VARIANCE	498.36	STAN. DEV.		22.32									
STA 26 MONTH 3 MEAN	45.91	VARIANCE	257.92	STAN. DEV.		16.06									
STA 26 MONTH 4 MEAN	68.83	VARIANCE	1873.33	STAN. DEV.		43.28									
STA 26 MONTH 5 MEAN	160.43	VARIANCE	2265.19	STAN. DEV.		47.59									
STA 26 MONTH 6 MEAN	188.84	VARIANCE	2080.53	STAN. DEV.		45.61									
STA 26 MONTH 7 MEAN	200.92	VARIANCE	2820.89	STAN. DEV.		53.11									
STA 26 MONTH 8 MEAN	224.23	VARIANCE	3083.13	STAN. DEV.		55.53									
STA 26 MONTH 9 MEAN	229.57	VARIANCE	1783.09	STAN. DEV.		42.23									
STA 26 MONTH 10 MEAN	286.60	VARIANCE	3452.77	STAN. DEV.		58.76									
STA 26 MONTH 11 MEAN	322.51	VARIANCE	6108.72	STAN. DEV.		78.16									
STA 26 MONTH 12 MEAN	254.43	VARIANCE	12342.42	STAN. DEV.		111.10									

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 6

STA 26 MONTH 1	MEAN 0.008	STD DEVO.052
STA 26 MONTH 2	MEAN-0.001	STD DEVO.056
STA 26 MONTH 3	MEAN 0.002	STD DEVO.063
STA 26 MONTH 4	MEAN 0.006	STD DEVO.065
STA 26 MONTH 5	MEAN 0.007	STD DEVO.068
STA 26 MONTH 6	MEAN-0.007	STD DEVO.065
STA 26 MONTH 7	MEAN-0.010	STD DEVO.065
STA 26 MONTH 8	MEAN-0.004	STD DEVO.066
STA 26 MONTH 9	MEAN-0.003	STD DEVO.059
STA 26 MONTH 10	MEAN-0.003	STD DEVO.062
STA 26 MONTH 11	MEAN 0.007	STD DEVO.057
STA 26 MONTH 12	MEAN 0.006	STD DEVO.056

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
26	501	68.8	45.4	34.5	138.0	266.7	197.4	218.5	211.4	212.4	395.4	547.1	350.6	2685.0
26	502	181.4	101.0	64.6	70.5	174.8	208.2	233.1	272.3	182.1	318.1	375.2	297.9	2479.0
26	503	95.2	44.6	33.7	54.4	132.7	276.6	240.1	186.2	227.1	209.8	327.0	267.9	2096.0
26	504	126.7	96.0	68.0	81.5	163.0	210.7	173.9	222.3	218.1	296.9	273.5	301.5	2233.0
26	505	249.3	76.9	48.6	48.9	123.0	172.1	157.4	251.9	251.1	225.5	301.2	368.1	2274.0
26	506	77.3	35.4	22.2	36.2	128.3	187.1	188.4	232.5	263.3	365.0	378.5	268.5	2180.0
26	507	353.1	121.5	64.3	47.3	112.7	132.9	189.0	219.0	260.7	280.7	397.1	286.3	2465.0

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26	508	166.5	51.1	42.6	71.2	172.7	239.9	256.1	295.1	246.5	337.0	344.0	467.2	2690.0
26	509	141.7	87.8	85.7	151.7	265.3	183.5	179.0	224.8	198.3	295.3	419.1	317.4	2550.0
26	510	153.9	60.8	40.5	30.9	124.2	159.7	146.0	245.4	208.0	243.4	293.4	217.9	1923.0
26	511	106.0	64.6	41.7	28.6	108.3	208.4	231.1	316.1	270.4	341.5	283.3	157.2	2157.0
26	512	58.5	52.9	36.7	41.2	137.6	176.6	243.8	254.9	288.9	250.9	349.6	372.1	2265.0
26	513	89.2	54.9	40.0	45.3	136.9	130.5	93.3	73.9	154.7	209.2	278.2	134.1	1439.0
26	514	107.2	68.4	49.0	59.2	209.6	254.1	271.2	271.9	263.5	287.1	190.0	101.6	2132.0
26	515	132.8	87.7	77.0	84.0	214.1	208.1	247.3	277.4	193.9	286.7	329.8	531.2	2670.0
26	516	121.4	64.3	57.7	40.2	172.7	179.9	238.0	288.2	251.3	325.5	283.7	171.9	2195.0
26	517	94.7	57.8	38.6	39.3	138.4	206.5	252.0	305.2	251.7	400.9	384.2	264.0	2434.0
26	518	94.3	58.1	42.0	63.1	159.0	195.3	250.8	282.7	276.6	275.2	282.0	291.9	2271.0
26	519	145.4	85.4	62.5	37.5	106.7	132.9	222.7	252.3	237.7	308.9	298.9	192.4	2084.0
26	520	76.9	72.5	56.8	69.9	142.3	235.9	270.2	308.1	269.4	261.2	266.5	238.6	2269.0
26	521	93.6	60.5	47.9	46.2	111.2	155.2	163.4	138.7	161.8	343.1	230.7	150.3	1702.0
26	522	70.2	52.1	34.3	48.4	118.5	163.9	144.1	199.5	220.7	249.8	258.7	132.3	1693.0
26	523	94.0	84.4	50.2	52.9	141.0	142.6	149.5	176.6	248.2	274.5	393.8	297.1	2105.0
26	524	103.0	57.5	33.5	24.1	105.4	105.5	99.0	188.2	265.5	456.0	428.3	152.4	2017.0
26	525	149.1	62.2	45.1	55.9	131.9	219.1	168.9	168.9	184.0	265.7	213.5	307.2	1972.0
26	526	76.4	55.4	52.0	70.8	145.5	160.8	212.7	222.7	209.0	276.1	347.4	312.9	2142.0
26	527	104.7	64.4	35.9	108.7	238.7	219.6	166.1	162.6	239.0	319.3	316.5	270.1	2247.0
26	528	104.2	64.9	33.6	42.1	133.1	167.4	212.9	180.9	199.0	324.3	491.5	227.2	2181.0
26	529	115.8	55.8	42.0	67.8	142.9	191.3	200.6	133.6	218.4	301.8	240.5	307.6	2020.0
26	530	98.6	46.6	31.0	50.1	106.1	192.1	116.0	126.7	195.9	222.5	389.0	285.0	1860.0
26	531	126.7	49.1	32.0	30.8	144.5	134.9	144.6	145.3	188.2	261.2	357.1	373.7	1988.0
26	532	108.3	62.9	44.0	53.8	194.9	174.9	183.0	250.2	243.8	274.5	407.2	204.2	2201.0
26	533	156.8	89.4	83.4	232.2	211.3	179.8	187.1	260.3	264.2	300.1	432.4	277.6	2673.0
26	534	61.6	41.6	39.9	34.5	117.2	160.5	171.1	232.5	203.1	201.9	195.4	331.8	1790.0
26	535	140.7	73.0	61.5	97.3	164.6	185.1	224.4	228.0	298.8	272.6	324.5	257.0	2327.0
26	536	137.7	52.8	35.7	43.2	119.4	193.0	264.1	214.2	170.3	270.2	289.9	450.5	2241.0
26	537	132.3	64.8	50.9	48.6	107.2	159.5	185.2	175.9	247.8	265.8	365.6	424.5	2229.0
26	538	178.2	89.7	51.3	47.3	159.8	193.1	213.2	226.2	208.2	265.2	251.4	339.9	2222.0
26	539	99.1	52.4	45.4	53.5	129.6	167.1	237.9	250.3	237.7	342.9	343.6	293.9	2253.0
26	540	132.9	43.6	32.3	92.0	202.4	201.2	252.3	267.7	230.3	230.4	241.1	315.8	2241.0
26	541	95.1	86.3	53.2	50.2	153.6	230.0	268.8	285.7	199.0	206.0	192.8	155.8	1977.0
26	542	101.1	88.9	67.0	75.9	119.7	161.4	191.9	192.2	228.1	244.8	341.7	119.4	1932.0
26	543	135.7	87.4	56.5	60.1	222.4	309.9	254.5	313.1	312.3	400.7	513.6	132.3	2798.0
26	544	67.7	44.6	26.3	31.9	95.4	119.4	127.2	162.9	201.6	281.7	365.2	364.8	1889.0
26	545	286.2	90.4	57.9	235.1	273.1	222.1	196.7	184.3	231.3	267.0	194.6	288.3	2526.0
26	546	134.1	93.5	80.9	80.8	164.2	170.4	170.8	194.0	181.6	339.5	313.6	249.1	2174.0
26	547	113.4	74.4	45.7	72.8	218.8	238.1	215.2	247.7	241.7	408.1	408.2	290.5	2575.0
26	548	116.3	61.3	39.9	62.9	120.0	154.1	166.3	131.7	228.3	273.4	343.9	254.1	1951.0
26	549	71.0	59.1	46.6	136.6	203.1	168.4	213.1	225.7	248.4	310.7	249.9	254.0	2187.0
26	550	114.5	65.3	54.7	48.5	150.9	206.7	157.9	248.1	285.6	314.7	333.4	233.9	2214.0
26	551	203.4	102.1	46.2	59.1	163.4	231.2	285.5	306.4	249.3	257.5	304.1	380.9	2587.0
26	552	141.6	74.9	49.4	138.0	206.5	241.2	203.8	262.0	245.7	263.9	334.9	190.6	2353.0
26	553	109.4	58.7	38.4	49.1	187.5	297.9	293.8	323.9	293.0	290.6	335.7	223.5	2501.0
26	554	77.2	50.4	36.6	74.9	176.6	188.1	127.7	193.5	261.7	217.4	298.8	108.7	1813.0
26	555	100.6	45.6	37.2	56.7	149.4	204.2	190.9	178.5	158.0	223.5	301.5	264.4	1911.0
26	556	85.0	52.8	34.4	58.5	148.3	201.6	216.5	233.2	208.2	265.9	229.8	309.2	2042.0
26	557	87.1	59.5	34.9	56.4	164.9	144.8	188.0	189.8	242.6	214.1	234.4	374.0	1990.0
26	558	111.6	54.1	41.3	55.2	168.6	226.6	230.7	260.9	254.3	268.0	439.3	321.2	2432.0
26	559	95.9	69.0	48.2	122.9	186.2	174.1	171.9	235.7	270.0	313.1	415.7	254.7	2358.0
26	560	136.2	67.7	70.0	166.9	229.1	217.0	236.2	215.9	192.4	242.2	349.7	263.8	2387.0
26	561	88.6	63.6	53.4	95.4	185.8	239.9	211.5	190.8	172.7	268.6	290.9	245.7	2109.0

26	562	82.9	52.6	50.2	40.1	95.6	79.4	101.5	124.2	209.8	318.9	323.0	68.7	1548.0
26	563	59.9	37.1	26.4	37.8	136.7	201.1	192.8	269.0	263.5	326.9	338.7	236.9	2128.0
26	564	88.6	53.5	46.2	96.0	187.5	217.7	244.9	216.1	181.1	244.6	368.3	150.2	2095.0
26	565	78.7	42.4	25.9	36.9	171.7	239.8	176.3	166.2	231.3	297.1	295.0	194.6	1956.0
26	566	108.8	87.3	64.3	49.9	147.4	157.7	152.2	196.4	222.5	215.1	197.4	241.5	1839.0
26	567	109.8	70.7	52.3	50.0	148.3	194.8	202.1	182.6	208.5	287.4	340.3	434.3	2280.0
26	568	88.5	45.0	42.2	41.1	116.7	124.7	140.5	172.1	254.8	336.1	437.0	226.1	2026.0
26	569	103.2	44.5	34.6	99.4	206.1	177.1	227.9	251.9	254.5	425.2	333.1	190.3	2347.0
26	570	81.7	53.5	36.5	56.9	177.7	158.1	182.2	191.2	258.1	257.2	327.4	177.3	1957.0
26	571	63.7	42.1	26.9	56.2	144.7	264.9	273.9	282.6	268.9	259.1	264.6	98.5	2047.0
26	572	96.4	61.0	51.5	64.4	161.7	244.8	248.5	213.9	219.2	248.5	189.8	270.9	2071.0
26	573	217.7	73.8	43.4	76.5	263.3	262.0	288.0	241.4	165.6	239.4	304.2	233.9	2408.0
26	574	74.1	41.4	33.3	27.0	108.4	152.6	164.3	180.3	178.2	211.2	331.9	304.0	1805.0
26	575	84.8	68.6	35.8	63.3	135.9	209.9	226.7	286.9	265.4	345.0	353.2	123.5	2200.0
26	576	74.2	82.3	81.1	68.0	142.2	180.5	213.1	264.6	253.2	310.6	262.8	267.5	2199.0
26	577	191.3	62.0	31.7	42.9	104.3	182.0	250.7	219.6	267.2	373.8	408.9	195.6	2331.0
26	578	82.5	63.1	38.5	86.7	197.3	163.7	168.7	229.5	253.8	308.4	272.0	206.2	2070.0
26	579	64.4	36.1	24.4	28.4	112.0	133.8	139.3	241.9	287.5	320.0	448.4	321.9	2157.0
26	580	122.9	86.9	51.7	42.1	153.1	161.1	133.4	179.1	232.3	244.2	286.3	73.3	1765.0
26	581	53.8	36.0	32.3	74.7	211.7	183.3	140.0	174.6	181.8	259.7	415.1	256.3	2020.0
26	582	72.2	55.2	30.6	42.3	139.9	134.6	255.7	293.8	248.9	255.7	388.5	254.4	2173.0
26	583	82.6	44.2	28.8	75.5	157.6	215.1	173.1	203.7	256.8	302.9	279.7	63.1	1884.0
26	584	66.1	58.2	32.7	48.9	149.6	199.2	184.1	219.4	244.7	354.2	432.1	458.9	2448.0
26	585	762.4	153.5	89.1	335.2	336.7	212.9	207.7	226.2	254.6	347.7	355.4	278.7	3561.0
26	586	253.7	128.4	71.1	222.6	208.7	181.1	219.5	244.5	254.0	243.5	234.1	221.1	2483.0
26	587	70.2	44.9	37.1	35.2	156.2	210.5	270.6	266.9	167.9	263.5	343.8	232.1	2098.0
26	588	99.6	59.5	48.8	55.7	138.1	122.6	125.2	205.3	229.0	303.2	283.5	209.7	1880.0
26	589	82.0	41.2	27.8	45.9	134.0	190.9	252.7	286.6	219.5	293.9	332.4	352.2	2260.0
26	590	140.5	55.7	41.2	72.1	199.9	173.3	164.7	226.1	247.4	276.2	334.5	256.0	2187.0
26	591	67.2	56.3	46.7	46.2	195.8	249.9	275.9	249.5	247.6	263.3	338.6	188.6	2226.0
26	592	92.3	59.7	44.9	33.4	128.1	222.0	204.8	244.4	219.1	262.3	391.3	187.4	2088.0
26	593	71.6	50.1	35.8	91.4	138.7	229.3	170.0	240.7	194.5	288.8	243.7	173.2	1928.0
26	594	118.9	88.9	66.7	72.2	197.0	291.2	247.3	275.4	261.2	298.7	281.6	202.4	2401.0
26	595	62.0	45.2	26.0	65.9	122.6	149.0	103.9	145.9	151.3	269.1	338.2	396.8	1876.0
26	596	131.3	66.7	75.3	71.0	178.9	207.3	265.0	264.4	222.5	303.9	313.3	192.5	2291.0
26	597	86.9	66.2	62.9	40.4	143.6	164.3	210.8	302.4	254.2	263.6	321.0	160.3	2076.0
26	598	95.1	65.9	56.5	98.3	242.1	222.1	228.3	259.5	235.3	291.1	322.1	219.0	2333.0
26	599	82.0	49.0	25.9	58.1	131.5	180.6	235.0	235.0	282.4	367.8	300.1	330.8	2278.0
26	600	150.1	75.1	36.6	51.8	188.5	187.6	291.8	285.3	230.4	305.8	310.2	198.7	2313.0

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MAXIMUM VOLUMES FOR PERIOD 6 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	762.4	153.5	89.1	335.2	336.7	309.9	293.8	323.9	312.3	456.0	547.1	531.2	762.4	2471.7	12070.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	53.8	35.4	22.2	24.1	95.4	79.4	93.3	73.9	151.3	201.9	189.8	63.1	22.2	366.6	8181.
STA 26 MONTH 1 MEAN	117.61	VARIANCE	6770.85	STAN.	DEV.										
STA 26 MONTH 2 MEAN	63.88	VARIANCE	456.30	STAN.	DEV.										
STA 26 MONTH 3 MEAN	45.84	VARIANCE	248.73	STAN.	DEV.										
STA 26 MONTH 4 MEAN	69.75	VARIANCE	2339.58	STAN.	DEV.										
STA 26 MONTH 5 MEAN	160.23	VARIANCE	2258.51	STAN.	DEV.										
STA 26 MONTH 6 MEAN	189.55	VARIANCE	2111.17	STAN.	DEV.										

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STA 26 MONTH 7 MEAN 199.78 VARIANCE 2671.99 STAN. DEV. 51.69
 STA 26 MONTH 8 MEAN 223.90 VARIANCE 2970.47 STAN. DEV. 54.50
 STA 26 MONTH 9 MEAN 229.14 VARIANCE 1797.89 STAN. DEV. 42.40
 STA 26 MONTH 10 MEAN 285.82 VARIANCE 3407.78 STAN. DEV. 58.38
 STA 26 MONTH 11 MEAN 322.43 VARIANCE 6149.76 STAN. DEV. 78.42
 STA 26 MONTH 12 MEAN 252.37 VARIANCE 9072.57 STAN. DEV. 95.25

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 7

STA 26 MONTH 1 MEAN-0.011 STD DEVO.066
 STA 26 MONTH 2 MEAN-0.003 STD DEVO.068
 STA 26 MONTH 3 MEAN-0.006 STD DEVO.067
 STA 26 MONTH 4 MEAN-0.008 STD DEVO.068
 STA 26 MONTH 5 MEAN-0.009 STD DEVO.064
 STA 26 MONTH 6 MEAN-0.004 STD DEVO.066
 STA 26 MONTH 7 MEAN 0.002 STD DEVO.072
 STA 26 MONTH 8 MEAN-0.001 STD DEVO.068
 STA 26 MONTH 9 MEAN 0.010 STD DEVO.072
 STA 26 MONTH 10 MEAN 0.007 STD DEVO.067
 STA 26 MONTH 11 MEAN 0.009 STD DEVO.055
 STA 26 MONTH 12 MEAN 0.000 STD DEVO.062

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
26	601	96.0	52.2	36.7	65.7	126.3	124.5	145.4	206.9	222.1	234.8	274.0	170.2	1754.0
26	602	92.5	68.7	56.1	83.7	202.4	242.1	279.0	294.6	306.1	366.4	254.9	344.9	2591.0
26	603	150.5	82.2	60.6	79.5	214.1	223.3	255.1	262.4	225.0	337.8	285.7	165.3	2341.0
26	604	61.8	45.9	35.0	47.3	130.2	239.3	208.9	226.0	254.8	253.7	318.4	154.8	1976.0
26	605	61.6	37.1	27.8	33.6	102.2	158.7	264.9	254.6	226.1	292.8	297.5	205.6	1965.0
26	606	81.0	50.4	28.1	69.5	157.1	219.2	240.1	191.8	272.9	407.7	268.0	134.1	2120.0
26	607	66.4	41.0	43.9	39.6	138.7	184.4	248.7	231.9	247.1	258.9	282.4	200.0	1983.0
26	608	88.7	44.8	40.7	45.9	109.9	128.6	190.6	210.2	251.3	283.8	265.0	330.1	1991.0
26	609	151.9	74.0	83.0	42.7	159.3	235.6	272.9	307.7	249.1	233.8	307.0	337.3	2455.0
26	610	100.4	57.0	55.6	71.9	165.5	222.4	167.5	238.2	231.2	249.0	431.8	381.6	2373.0
26	611	101.4	79.4	64.3	141.1	207.3	183.1	136.8	106.4	212.5	256.1	295.0	159.7	1941.0
26	612	59.8	29.3	17.1	23.4	99.7	233.2	231.7	289.2	297.9	329.6	294.1	190.7	2096.0
26	613	127.8	68.1	61.0	69.9	135.8	163.8	159.2	152.2	148.8	210.9	280.2	197.9	1776.0
26	614	74.9	45.3	27.1	65.1	163.6	160.6	174.8	196.0	232.0	202.4	310.2	490.1	2142.0
26	615	606.9	92.4	59.3	205.3	228.0	218.7	227.8	245.4	264.5	314.9	344.1	294.5	3102.0
26	616	109.0	58.2	46.6	40.1	138.8	178.7	206.0	288.5	288.5	300.8	306.1	189.0	2151.0
26	617	100.4	59.7	37.9	43.5	134.0	220.0	221.1	176.7	195.7	251.2	423.3	521.8	2386.0
26	618	267.4	109.4	84.1	62.0	143.5	107.6	126.3	134.3	216.3	353.3	518.2	159.8	2280.0
26	619	83.9	58.8	46.1	34.4	121.3	164.7	175.8	167.5	180.5	338.2	212.8	116.3	1700.0
26	620	53.7	37.4	24.6	37.3	155.3	225.5	226.4	253.3	259.8	333.6	286.8	169.3	2063.0
26	621	97.1	53.1	47.5	40.5	134.6	268.8	264.8	299.8	265.6	289.3	284.3	223.6	2269.0
26	622	142.6	77.6	52.9	86.6	151.0	223.2	269.1	291.5	265.0	317.8	257.0	334.8	2471.0
26	623	168.2	79.7	44.8	83.5	188.8	249.1	187.7	200.2	235.3	301.4	332.8	159.4	2230.0
26	624	76.7	72.1	44.5	41.6	156.7	187.7	151.6	153.5	178.5	228.8	299.1	199.9	1793.0
26	625	84.0	50.2	39.8	48.8	201.9	249.4	275.2	314.1	270.9	233.0	355.3	198.5	2320.0
26	626	72.1	55.2	43.4	47.1	137.0	225.4	213.3	248.2	280.4	341.0	367.5	391.2	2419.0
26	627	199.0	77.7	43.0	51.9	149.0	119.8	123.8	214.3	260.4	320.0	300.7	186.8	2047.0
26	628	88.3	54.1	39.8	49.0	153.9	176.1	224.5	213.5	179.8	281.0	286.9	359.2	2105.0
26	629	92.3	76.2	44.2	26.4	99.4	153.9	164.7	240.1	238.8	307.5	405.3	328.5	2176.0
26	630	145.0	88.7	58.3	59.9	201.0	200.2	246.9	207.3	225.1	242.6	201.9	186.0	2063.0
26	631	79.0	54.1	33.5	40.2	110.6	171.8	206.8	219.7	222.5	299.7	409.5	356.7	2204.0
26	632	158.6	81.7	55.8	50.5	121.1	159.7	135.3	201.6	230.9	366.1	472.7	215.9	2251.0

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26	633	141.6	74.7	49.4	46.9	175.0	224.7	221.3	188.0	198.5	238.9	431.1	447.6	2439.0	
26	634	159.7	121.7	81.5	236.4	297.9	260.1	240.3	244.0	244.8	316.2	406.0	144.4	2752.0	
26	635	61.4	39.7	33.7	40.4	133.8	203.3	255.5	290.3	176.0	262.7	275.6	110.3	1882.0	
26	636	77.5	49.2	36.3	53.7	180.5	226.5	231.4	246.1	266.5	232.6	331.3	510.5	248.2	2445.0
26	637	103.1	54.9	39.2	80.7	180.8	214.7	143.0	169.7	218.5	280.4	298.5	257.8	2251.0	
26	638	267.6	75.3	65.3	96.7	198.3	179.4	143.0	169.7	218.5	225.8	313.6	303.5	2424.0	
26	639	128.2	127.7	79.2	99.5	216.2	184.6	238.2	278.9	228.8	301.5	159.2	1848.0		
26	640	146.1	85.0	61.1	50.5	150.4	89.0	150.5	163.7	243.6	247.7	81.9	2009.0		
26	641	141.0	50.1	31.6	36.8	116.9	211.9	253.8	286.1	259.2	242.9	295.6	2113.0		
26	642	90.7	69.3	43.5	53.1	167.3	158.0	192.8	235.2	244.3	300.5	396.2	301.6	2455.0	
26	643	95.5	64.2	40.0	38.0	124.2	252.8	267.9	259.4	298.7	343.5	368.3	434.5	3002.0	
26	644	139.9	66.7	55.9	135.9	264.7	237.8	272.9	328.7	251.3	352.9	460.5	314.4	2418.0	
26	645	72.2	48.3	24.9	55.8	166.5	166.9	243.7	244.8	300.3	406.3	373.5	2197.0		
26	646	107.8	101.8	64.4	80.4	220.1	242.1	245.2	243.9	212.2	270.8	208.4	201.4	2286.0	
26	647	87.8	65.2	42.4	67.3	189.4	168.0	227.0	225.7	201.2	367.8	376.3	128.0	1900.0	
26	648	171.8	76.8	41.1	31.2	122.4	201.7	217.1	236.1	199.4	241.2	233.9	355.7	2345.0	
26	649	83.2	52.6	35.9	93.6	178.7	230.0	247.6	257.6	253.7	222.8	331.3	262.5	2047.0	
26	650	138.6	75.4	65.2	73.1	144.4	172.5	166.2	187.8	167.3	263.3	333.3	195.4	2206.0	
26	651	90.8	57.1	41.9	68.9	128.6	184.1	185.7	266.3	277.6	346.8	361.9	1762.0		
26	652	116.4	86.2	49.9	75.8	214.9	164.0	96.2	91.7	183.4	229.3	306.5	231.5	2423.0	
26	653	106.0	70.2	60.9	64.8	221.2	215.7	250.4	304.4	282.7	350.5	234.6	261.6	2295.0	
26	654	140.5	64.6	58.1	70.6	213.2	224.8	192.3	278.7	216.0	263.0	411.5	161.4	2070.0	
26	655	82.1	50.7	34.3	58.7	132.3	227.9	216.3	221.9	223.2	225.0	377.3	221.1	2103.0	
26	656	82.2	57.1	45.3	88.4	145.7	220.5	208.4	254.9	214.7	247.9	353.5	74.2	1786.0	
26	657	100.5	70.4	43.7	54.3	122.0	137.0	162.7	177.4	225.0	213.6	248.0	231.5	2293.0	
26	658	92.2	63.2	31.2	143.0	234.7	257.3	250.1	268.7	215.1	264.6	257.5	215.4	2348.0	
26	659	152.8	62.3	42.8	98.1	239.8	234.0	180.6	245.8	177.7	328.8	260.9	322.9	2119.0	
26	660	84.6	45.1	36.9	43.1	127.2	198.6	199.5	271.1	232.6	300.3	276.2	154.3	2581.0	
26	661	122.9	67.5	54.9	255.3	320.6	216.9	187.1	252.0	262.6	331.3	354.8	181.9	1976.0	
26	662	59.4	39.6	31.6	38.6	117.1	171.3	110.7	118.6	216.9	294.5	278.8	311.8	2073.0	
26	663	66.4	45.6	31.7	59.2	143.5	190.7	143.7	180.9	207.8	251.6	270.9	261.8	1855.0	
26	664	85.1	43.3	25.8	29.0	88.8	103.1	170.9	215.4	250.5	282.9	408.9	275.6	1979.0	
26	665	153.3	67.2	51.2	49.0	154.8	208.4	166.7	218.4	261.9	269.9	194.0	125.3	1608.0	
26	666	61.2	46.9	37.6	92.7	177.2	177.1	164.9	202.1	171.0	269.8	360.2	427.1	2492.0	
26	667	82.5	72.5	59.4	57.9	117.8	154.8	197.6	173.4	187.2	196.6	184.0	218.4	2571.0	
26	668	82.4	49.3	42.4	54.8	224.8	198.2	213.6	177.1	185.6	264.3	267.2	216.4	2377.0	
26	669	79.6	53.2	58.2	144.8	169.5	199.3	184.9	201.1	272.4	433.4	408.9	367.0	2005.0	
26	670	192.2	82.3	57.4	85.0	181.5	211.9	242.7	183.2	245.8	314.6	363.8	218.4	151.5	2039.0
26	671	69.9	48.2	38.2	42.1	224.1	192.2	138.7	194.4	156.4	274.6	331.9	294.7	366.1	2457.0
26	672	197.9	91.8	65.4	71.2	178.1	156.9	197.0	211.4	233.8	256.4	356.8	465.1	2481.0	
26	673	121.7	61.7	41.4	40.8	132.7	145.0	228.1	257.0	189.0	271.0	398.4	125.7	2268.0	
26	674	57.2	33.6	24.4	41.0	140.3	164.6	202.9	261.7	267.3	320.8	346.9	599.1	2460.0	
26	675	258.0	79.8	47.1	37.8	109.9	179.6	199.6	262.3	229.5	328.8	358.4	366.1	1576.0	
26	676	76.7	57.8	47.3	70.1	202.1	224.8	258.0	252.7	258.9	300.8	457.3	268.4	2492.0	
26	677	146.0	111.6	88.4	205.0	172.7	175.1	208.8	197.8	234.2	340.5	378.7	332.4	2391.0	
26	678	93.3	53.9	29.9	51.3	136.7	146.1	229.5	214.8	202.4	266.8	300.3	269.6	1995.0	
26	679	113.8	58.7	30.3	41.8	173.1	206.1	286.2	290.2	267.5	271.3	254.5	221.8	2700.0	
26	680	104.9	58.3	39.2	57.8	148.8	228.0	226.9	296.6	213.6	301.6	407.4	218.4	2313.0	
26	681	85.9	55.1	38.0	51.3	112.6	109.2	71.5	118.3	150.2	247.0	218.4	318.6	1766.0	
26	682	136.1	72.2	51.7	148.7	262.1	253.5	236.6	267.1	234.2	216.0	186.2	427.1	2492.0	
26	683	216.3	118.5	78.7	168.1	205.5	236.5	251.4	201.1	231.8	288.7	482.1	221.8	2366.0	
26	684	93.8	73.9	41.9	112.4	171.1	231.2	265.2	268.3	258.4	269.1	266.5	261.9	2391.0	
26	685	104.1	56.7	36.7	58.6	174.9	230.4	274.0	266.5	283.3	330.6	347.7	226.1	2424.0	
26	686	97.6	59.4	46.5	63.1	158.7	228.5	250.3	286.1	230.5	265.2	354.8	324.1	2366.0	

26	687	155.7	83.0	43.4	38.3	113.5	213.0	230.5	244.1	245.8	273.8	282.9	192.8	2117.0
26	688	151.2	84.5	60.7	55.0	196.7	243.2	271.3	280.7	221.6	256.4	316.6	228.3	2366.0
26	689	104.2	68.3	44.3	36.2	121.0	152.5	120.6	132.3	245.7	230.7	235.5	180.3	1671.0
26	690	96.9	52.9	39.5	37.4	124.4	134.8	178.3	211.0	201.7	246.1	221.0	280.8	1825.0
26	691	203.8	74.0	50.0	58.0	123.6	151.7	165.6	243.3	222.3	324.1	363.6	236.3	2217.0
26	692	92.5	46.7	22.5	41.6	102.4	121.8	189.4	273.5	294.4	359.7	259.0	423.1	2226.0
26	693	111.0	64.7	46.9	46.2	172.4	146.1	140.7	156.6	205.0	220.7	349.8	157.0	1818.0
26	694	91.2	74.3	56.0	54.3	130.7	196.6	198.2	202.1	220.9	295.3	369.1	234.3	2122.0
26	695	106.0	49.1	49.3	112.4	185.1	148.4	138.4	219.4	241.6	278.0	338.9	245.4	2110.0
26	696	110.3	46.7	32.9	46.7	132.5	193.4	155.5	178.6	242.2	384.0	319.4	294.8	2136.0
26	697	92.0	59.5	47.9	48.6	147.0	175.9	107.7	185.3	227.1	235.0	353.7	217.7	1898.0
26	698	72.0	43.9	34.4	28.6	129.5	103.1	102.2	159.1	166.3	307.7	347.4	289.8	1784.0
26	699	75.1	44.6	26.6	67.9	123.8	153.1	140.0	172.3	206.3	297.1	402.9	226.5	1937.0
26	700	98.8	58.7	42.5	111.3	157.5	176.9	231.8	252.7	227.7	336.4	299.5	394.9	2390.0

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MAXIMUM VOLUMES FOR PERIOD 7 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	606.9	127.7	88.4	255.3	320.6	268.8	286.2	328.7	306.1	433.4	518.2	599.1	606.9	2100.9	11744.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	53.7	29.3	17.1	23.4	88.8	89.0	71.5	91.7	148.8	196.6	184.0	74.2	17.1	375.0	7931.
STA 26 MONTH 1 MEAN	116.21	VARIANCE	4595.29	STAN. DEV.	67.79										
STA 26 MONTH 2 MEAN	63.88	VARIANCE	406.98	STAN. DEV.	20.17										
STA 26 MONTH 3 MEAN	45.68	VARIANCE	228.86	STAN. DEV.	15.13										
STA 26 MONTH 4 MEAN	68.61	VARIANCE	1910.85	STAN. DEV.	43.71										
STA 26 MONTH 5 MEAN	160.47	VARIANCE	2219.07	STAN. DEV.	47.11										
STA 26 MONTH 6 MEAN	189.80	VARIANCE	2054.23	STAN. DEV.	45.32										
STA 26 MONTH 7 MEAN	200.71	VARIANCE	2828.60	STAN. DEV.	53.18										
STA 26 MONTH 8 MEAN	224.27	VARIANCE	3037.30	STAN. DEV.	55.11										
STA 26 MONTH 9 MEAN	229.10	VARIANCE	1767.89	STAN. DEV.	42.05										
STA 26 MONTH 10 MEAN	285.40	VARIANCE	3245.37	STAN. DEV.	56.97										
STA 26 MONTH 11 MEAN	322.54	VARIANCE	6175.03	STAN. DEV.	78.58										
STA 26 MONTH 12 MEAN	251.79	VARIANCE	11179.41	STAN. DEV.	105.73										

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GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 8

STA 26 MONTH 1	MEAN-0.006	STD DEVO.062
STA 26 MONTH 2	MEAN-0.001	STD DEVO.068
STA 26 MONTH 3	MEAN 0.001	STD DEVO.067
STA 26 MONTH 4	MEAN 0.001	STD DEVO.064
STA 26 MONTH 5	MEAN-0.001	STD DEVO.068
STA 26 MONTH 6	MEAN-0.001	STD DEVO.067
STA 26 MONTH 7	MEAN-0.001	STD DEVO.062
STA 26 MONTH 8	MEAN 0.007	STD DEVO.066
STA 26 MONTH 9	MEAN 0.000	STD DEVO.063
STA 26 MONTH 10	MEAN 0.005	STD DEVO.055
STA 26 MONTH 11	MEAN 0.001	STD DEVO.057
STA 26 MONTH 12	MEAN-0.004	STD DEVO.062

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
26	701	185.4	117.5	102.8	93.8	147.0	172.8	243.9	269.4	251.2	378.7	366.8	118.6	2448.0
26	702	67.8	60.5	34.8	42.2	131.5	162.7	216.6	194.8	155.3	202.9	373.3	301.9	1945.0
26	703	116.0	80.4	62.6	59.9	145.1	200.6	199.6	299.6	232.1	290.7	343.9	332.9	2365.0

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26	704	79.3	49.2	33.6	35.6	141.0	235.2	171.8	137.0	211.3	256.3	442.0	258.2	2050.0
26	705	93.2	64.9	41.5	30.4	117.7	164.4	143.1	225.8	215.5	311.5	438.8	338.2	2184.0
26	706	148.1	63.3	39.9	70.5	161.0	194.1	201.9	193.4	217.0	237.5	385.5	217.0	2129.0
26	707	78.0	62.1	43.1	41.6	129.0	214.8	224.4	230.4	266.9	304.8	369.8	308.5	2273.0
26	708	63.9	45.1	43.0	74.4	154.9	224.4	238.9	222.7	189.5	231.3	370.6	212.6	2072.0
26	709	168.9	71.1	45.1	66.5	193.5	244.6	258.1	191.6	160.6	201.8	249.6	291.1	2144.0
26	710	213.8	97.5	65.7	36.5	123.3	172.8	163.2	207.4	197.7	293.1	224.5	426.0	2221.0
26	711	210.8	81.5	54.1	183.6	355.6	221.0	288.2	326.1	297.9	479.0	257.0	190.5	2946.0
26	712	80.1	42.5	26.8	26.9	97.2	128.8	142.7	177.6	225.3	310.9	407.9	485.1	2152.0
26	713	145.7	70.7	73.8	131.4	180.5	171.7	149.4	205.8	214.7	203.4	348.3	305.6	2202.0
26	714	184.0	108.8	69.7	73.9	144.5	164.1	174.9	161.4	259.2	278.7	335.3	281.6	2236.0
26	715	134.4	62.2	48.8	125.7	211.2	189.7	221.6	234.5	289.7	358.7	373.9	277.1	2528.0
26	716	96.9	54.4	42.3	32.5	113.0	149.5	97.3	191.8	215.0	292.4	337.4	157.1	1778.0
26	717	103.0	67.7	65.0	80.7	135.5	195.0	202.1	240.5	251.2	240.8	335.3	280.9	2198.0
26	718	108.2	75.4	46.3	67.3	174.0	147.5	231.2	291.7	260.5	301.8	330.6	461.7	2495.0
26	719	217.9	59.7	43.1	64.2	186.7	265.3	278.5	252.6	220.2	275.6	415.7	294.3	2574.0
26	720	118.1	63.4	60.2	78.0	189.8	170.4	232.4	239.0	220.7	294.2	293.1	300.1	2258.0
26	721	99.1	54.9	38.8	100.2	295.1	272.4	295.2	304.6	250.5	304.8	323.7	189.3	2528.0
26	722	83.4	54.0	46.1	67.2	148.5	124.3	172.1	252.8	175.7	266.0	210.8	332.1	1932.0
26	723	78.0	57.4	43.5	54.5	160.2	168.1	144.6	123.7	166.7	259.7	338.3	198.6	1794.0
26	724	83.9	49.2	38.9	48.3	151.7	186.9	201.5	189.3	215.8	224.1	365.2	192.8	1947.0
26	725	95.1	48.6	37.6	61.4	120.7	178.7	168.7	229.4	169.4	225.4	400.7	235.6	1972.0
26	726	78.5	55.2	40.2	69.6	185.1	201.0	232.8	250.0	225.2	376.9	391.8	218.7	2325.0
26	727	116.8	65.6	60.4	66.5	135.8	157.6	215.5	269.8	256.2	362.9	349.7	334.4	2391.0
26	728	112.3	97.4	84.3	120.5	183.6	211.6	183.7	168.3	192.4	296.6	344.5	211.1	2206.0
26	729	108.6	75.4	61.2	79.6	198.6	181.0	152.0	138.1	209.6	256.7	326.9	198.0	1987.0
26	730	85.0	72.5	41.8	27.9	82.2	121.7	113.9	186.7	248.9	284.0	162.4	181.7	1610.0
26	731	70.7	46.2	32.1	51.5	160.8	171.8	249.1	267.8	264.8	304.8	332.8	221.9	2175.0
26	732	87.2	66.5	57.2	76.6	174.6	216.0	179.2	152.6	192.2	308.1	255.6	222.3	1989.0
26	733	71.2	40.6	28.0	82.9	208.5	155.9	132.0	203.0	234.8	263.6	291.6	294.3	2007.0
26	734	192.0	90.8	52.5	67.9	138.3	154.1	183.5	212.4	171.4	204.8	317.8	271.4	2056.0
26	735	123.6	71.8	45.6	61.7	160.5	183.2	152.7	182.3	228.7	293.2	441.3	174.8	2120.0
26	736	65.2	57.8	36.2	36.9	105.6	142.9	155.5	243.9	262.9	377.8	329.1	269.6	2084.0
26	737	69.1	50.3	48.2	81.0	140.6	206.3	228.5	252.1	295.7	302.6	297.1	217.0	2189.0
26	738	91.8	54.1	41.5	79.1	134.6	175.0	171.8	249.3	214.6	288.0	281.0	148.4	1929.0
26	739	71.8	42.7	35.6	44.6	202.3	233.3	242.4	262.3	217.3	247.9	198.6	327.6	2127.0
26	740	122.5	79.8	56.2	71.9	209.6	217.6	174.3	193.4	198.7	199.9	336.0	446.3	2306.0
26	741	115.9	55.8	45.6	187.2	248.5	272.2	201.2	137.5	186.5	264.4	319.3	172.3	2206.0
26	742	66.2	49.8	25.8	38.9	127.0	159.4	160.5	154.8	159.1	281.6	367.2	188.9	1779.0
26	743	119.2	49.5	39.9	39.2	150.2	190.3	259.1	267.6	272.0	315.9	235.0	221.3	2158.0
26	744	221.7	132.0	76.0	62.9	153.3	198.0	248.1	257.6	256.3	251.9	347.5	418.9	2624.0
26	745	93.0	42.5	29.9	27.1	123.5	214.1	175.9	250.0	276.0	353.8	303.4	218.5	2107.0
26	746	117.1	56.1	49.7	83.1	134.9	161.0	213.7	252.4	252.7	256.2	303.2	142.7	2023.0
26	747	60.3	38.9	23.0	36.7	111.9	141.4	232.7	296.9	264.9	398.5	397.7	282.5	2285.0
26	748	163.9	67.8	40.1	71.8	140.7	139.3	165.7	220.4	201.1	258.9	166.6	132.6	1770.0
26	749	69.8	57.5	50.8	116.5	158.3	140.3	156.2	158.9	207.9	346.5	344.6	162.0	1968.0
26	750	93.2	44.9	31.7	48.2	113.4	244.6	277.1	259.7	222.3	339.7	347.3	198.4	2220.0
26	751	69.4	42.6	39.1	46.3	154.9	145.7	167.4	239.2	242.9	256.9	152.5	226.7	1784.0
26	752	138.0	54.4	40.3	58.5	160.3	165.7	194.3	234.1	270.7	374.7	465.2	731.2	2886.0
26	753	318.3	100.3	97.0	243.2	185.8	188.6	202.0	247.6	269.4	314.1	361.3	499.5	3027.0
26	754	313.4	89.1	84.2	79.0	141.6	196.6	219.6	249.2	204.4	228.8	308.9	161.2	2276.0
26	755	73.2	55.6	33.3	80.9	185.6	256.2	241.5	155.2	214.5	296.5	323.9	253.4	2170.0
26	756	98.7	69.0	47.2	48.9	108.1	135.1	197.9	225.0	247.9	262.2	306.0	208.5	1954.0
26	757	65.9	42.1	31.9	41.3	141.6	223.5	260.1	215.8	242.1	294.6	402.3	301.9	2263.0

26	758	80.4	54.6	44.3	90.7	144.0	157.4	210.0	244.2	231.5	295.8	343.0	143.4	2038.0
26	759	97.8	68.7	43.7	138.6	243.4	259.4	217.6	237.7	218.8	295.8	291.2	251.4	2365.0
26	760	104.9	65.2	35.3	54.2	188.1	181.6	219.7	208.7	216.9	333.7	293.2	179.7	2082.0
26	761	86.6	54.3	50.1	37.9	160.4	138.5	206.2	173.0	230.9	232.5	270.3	331.7	1971.0
26	762	200.4	94.7	63.0	122.3	296.0	212.6	244.4	258.4	246.8	261.8	300.6	133.0	2434.0
26	763	77.1	40.7	36.6	30.7	106.8	103.5	117.7	114.7	207.5	285.6	419.0	270.2	1812.0
26	764	99.7	99.9	63.2	95.2	180.7	248.7	239.4	216.1	247.2	281.3	294.1	232.3	2297.0
26	765	124.5	93.0	48.4	74.6	148.6	203.9	291.1	273.8	233.2	293.1	269.8	276.8	2332.0
26	766	126.6	83.7	66.7	173.7	203.1	208.6	238.4	232.8	241.3	288.0	315.9	205.9	2386.0
26	767	79.6	38.9	33.2	35.0	126.7	201.3	198.8	275.8	277.7	276.2	389.7	325.6	2260.0
26	768	121.5	47.8	35.2	87.2	156.2	289.4	259.6	228.6	250.3	280.7	299.7	221.4	2278.0
26	769	83.2	51.7	40.9	33.5	100.3	143.5	190.5	217.0	194.8	253.9	257.7	226.7	1795.0
26	770	144.8	81.7	60.0	95.8	217.0	276.2	268.4	329.6	292.9	258.0	398.5	310.9	2734.0
26	771	153.6	76.5	54.2	104.8	197.2	246.2	236.4	223.3	270.9	267.9	257.3	104.7	2193.0
26	772	79.4	54.6	37.8	41.6	188.8	181.7	189.2	252.6	213.3	282.8	246.2	106.7	1876.0
26	773	60.9	44.3	27.5	29.8	120.9	259.4	225.5	221.3	244.5	272.3	292.9	171.0	1968.0
26	774	82.0	40.6	35.7	43.3	160.0	213.3	143.5	267.7	293.4	257.1	224.7	136.9	1898.0
26	775	68.5	71.2	40.8	59.3	160.1	246.5	207.3	250.0	220.8	262.1	286.8	200.3	2073.0
26	776	68.6	59.2	38.4	31.7	105.1	184.7	189.9	255.4	240.9	253.1	382.5	316.7	2126.0
26	777	124.9	111.5	50.8	92.0	229.6	274.9	288.0	270.4	205.6	281.2	391.4	194.5	2515.0
26	778	86.4	75.3	52.8	61.6	182.8	152.1	215.3	230.3	210.6	365.0	424.6	188.6	2246.0
26	779	154.1	84.6	70.9	78.0	148.8	133.8	76.5	175.1	202.7	260.9	246.2	95.4	1728.0
26	780	50.3	29.0	15.2	31.0	179.1	204.5	262.7	320.5	276.8	280.7	285.0	331.5	2267.0
26	781	127.8	85.9	56.8	44.0	130.8	153.5	124.2	104.0	150.4	247.6	277.4	148.5	1651.0
26	782	71.7	40.0	34.6	47.8	124.0	164.2	170.1	223.0	153.0	271.9	469.3	748.6	2519.0
26	783	137.6	64.2	63.2	68.7	165.0	202.6	211.6	270.2	260.6	306.6	366.1	230.4	2348.0
26	784	90.4	62.5	36.0	53.3	149.7	197.9	275.1	316.7	264.7	289.5	284.6	248.1	2269.0
26	785	105.6	53.1	34.5	44.5	174.0	199.1	134.4	158.1	198.6	346.6	492.3	432.0	2373.0
26	786	220.8	97.5	54.5	52.0	103.0	142.1	122.6	200.5	273.5	445.9	263.3	205.3	2181.0
26	787	112.4	68.5	35.8	46.7	140.7	173.6	144.4	149.5	262.6	219.2	198.7	73.5	1626.0
26	788	65.8	41.5	28.5	61.8	191.3	208.8	227.0	269.2	271.9	270.7	262.2	246.0	2144.0
26	789	88.7	69.3	39.5	52.7	242.7	245.9	272.2	282.4	250.2	269.0	309.7	348.7	2471.0
26	790	155.8	70.0	54.0	45.6	169.6	252.9	261.9	279.0	265.8	252.4	387.6	348.8	2545.0
26	791	141.4	55.1	44.8	64.0	201.8	161.4	160.8	219.4	245.4	292.4	251.7	172.4	2009.0
26	792	176.9	65.2	38.7	71.5	164.7	150.9	130.1	144.4	177.1	262.7	282.7	182.6	1849.0
26	793	80.8	57.5	38.7	110.4	236.6	272.0	292.1	296.5	207.6	316.1	292.8	140.8	2342.0
26	794	99.3	64.2	41.1	48.7	184.1	192.4	220.4	294.9	277.0	328.4	431.4	385.7	2566.0
26	795	125.8	51.6	35.1	48.0	105.4	133.6	209.0	276.6	268.0	281.2	280.1	206.2	2021.0
26	796	91.8	57.3	38.7	57.7	145.8	216.2	187.3	153.8	229.3	260.8	398.6	166.1	2004.0
26	797	146.2	57.4	25.4	34.3	128.5	163.0	228.6	248.7	258.9	353.8	394.0	307.6	2346.0
26	798	186.9	73.7	47.3	104.8	178.9	243.1	177.7	212.6	199.5	211.6	266.1	168.0	2071.0
26	799	93.3	48.4	31.4	31.8	128.2	189.4	190.0	210.7	246.5	348.8	408.6	324.2	2250.0
26	800	148.7	69.4	42.1	37.0	125.1	132.7	183.2	227.1	281.9	409.5	314.4	356.7	2327.0

1

MAXIMUM VOLUMES FOR PERIOD 8 OF 100 YEARS OF SYN'THETIC FLOWS

STA 1 2 3 4 5 6 7 8 9 10 11 12 1-MO 6-MO 54-MO
 26 318.3 132.0 102.8 243.2 355.6 289.4 295.2 329.6 297.9 479.0 492.3 748.6 748.6 2394.1 11702.

MINIMUM VOLUMES

STA 1 2 3 4 5 6 7 8 9 10 11 12 1-MO 6-MO 54-MO
 26 50.3 29.0 15.2 26.9 82.2 103.5 76.5 104.0 150.4 199.9 152.5 73.5 15.2 390.1 8225.

STA 26 MONTH 3 MEAN 45.77 VARIANCE 254.00 STAN. DEV. 15.94
 STA 26 MONTH 4 MEAN 68.06 VARIANCE 1420.19 STAN. DEV. 37.69
 STA 26 MONTH 5 MEAN 160.77 VARIANCE 2259.42 STAN. DEV. 47.53
 STA 26 MONTH 6 MEAN 190.06 VARIANCE 2128.49 STAN. DEV. 46.14
 STA 26 MONTH 7 MEAN 200.77 VARIANCE 2698.52 STAN. DEV. 51.95
 STA 26 MONTH 8 MEAN 224.34 VARIANCE 2969.95 STAN. DEV. 54.50
 STA 26 MONTH 9 MEAN 228.63 VARIANCE 1782.91 STAN. DEV. 42.22
 STA 26 MONTH 10 MEAN 284.82 VARIANCE 3319.10 STAN. DEV. 57.61
 STA 26 MONTH 11 MEAN 322.44 VARIANCE 5873.48 STAN. DEV. 76.64
 STA 26 MONTH 12 MEAN 252.84 VARIANCE 13200.51 STAN. DEV. 114.89

1
GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 9

STA 26 MONTH 1 MEAN 0.005 STD DEVO.063
 STA 26 MONTH 2 MEAN 0.003 STD DEVO.065
 STA 26 MONTH 3 MEAN 0.004 STD DEVO.067
 STA 26 MONTH 4 MEAN-0.003 STD DEVO.066
 STA 26 MONTH 5 MEAN-0.006 STD DEVO.063
 STA 26 MONTH 6 MEAN-0.001 STD DEVO.069
 STA 26 MONTH 7 MEAN 0.000 STD DEVO.066
 STA 26 MONTH 8 MEAN-0.002 STD DEVO.065
 STA 26 MONTH 9 MEAN 0.004 STD DEVO.066
 STA 26 MONTH 10 MEAN 0.011 STD DEVO.055
 STA 26 MONTH 11 MEAN 0.004 STD DEVO.058
 STA 26 MONTH 12 MEAN-0.009 STD DEVO.059

STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
26	801	134.5	64.7	39.7	85.8	210.5	207.6	156.9	177.7	189.9	346.6	449.4	309.7	2374.0
26	802	301.4	99.6	86.6	155.5	253.1	218.4	209.5	249.9	256.0	342.6	241.0	108.8	2523.0
26	803	64.4	52.7	34.5	49.4	169.7	243.7	264.7	173.9	219.6	251.7	195.7	206.9	1929.0
26	804	84.0	54.9	40.3	80.9	205.1	215.2	240.6	243.8	266.1	435.3	339.1	241.3	2446.0
26	805	82.2	52.6	44.6	62.1	173.5	226.7	245.5	269.5	276.0	292.2	486.3	464.7	2677.0
26	806	98.6	75.1	55.7	78.7	150.3	141.9	150.1	209.8	229.3	264.3	328.8	305.8	2089.0
26	807	460.6	105.7	70.0	115.0	168.4	234.8	260.6	248.0	192.3	276.6	363.1	332.2	2828.0
26	808	155.8	77.6	44.9	62.0	94.5	171.6	162.9	255.6	210.6	268.6	248.8	416.4	2171.0
26	809	73.7	42.8	27.5	36.2	162.8	233.0	255.3	278.5	209.4	266.6	162.7	306.3	2055.0
26	810	165.8	65.8	44.4	74.5	140.5	192.7	221.6	261.6	251.9	338.9	261.0	254.5	2275.0
26	811	117.6	55.7	33.3	43.9	220.3	248.1	219.7	318.6	275.1	323.0	370.4	321.4	2547.0
26	812	101.0	72.3	63.3	130.9	219.7	264.4	303.8	285.3	283.4	403.9	458.1	100.8	2686.0
26	813	68.1	33.4	28.2	50.0	128.2	230.6	215.8	322.8	297.4	332.4	381.6	230.2	2318.0
26	814	254.6	84.0	57.4	120.8	237.2	230.8	213.5	208.1	224.2	213.2	278.8	198.8	2322.0
26	815	116.2	58.3	44.6	79.2	144.2	221.5	203.7	195.8	276.9	321.8	345.0	416.5	2425.0
26	816	128.2	50.5	26.7	45.5	169.4	202.1	209.6	192.0	197.6	225.3	211.3	220.0	1879.0
26	817	89.0	52.4	48.3	58.1	184.4	223.5	221.8	263.2	183.8	284.4	395.0	292.4	2295.0
26	818	119.6	83.3	54.7	48.9	138.5	159.1	165.1	142.1	211.2	281.5	332.3	189.4	1925.0
26	819	87.3	56.3	43.8	36.2	134.8	166.5	242.0	301.7	277.8	320.1	290.1	310.6	2268.0
26	820	196.9	66.6	49.9	105.5	146.7	111.5	78.5	148.6	174.8	260.1	232.8	300.7	1875.0
26	821	137.6	89.2	56.2	150.5	216.6	247.3	284.9	316.4	284.5	240.8	336.1	339.8	2700.0
26	822	98.2	76.9	52.4	116.1	214.1	181.0	260.4	231.2	225.6	346.7	258.1	199.9	2260.0
26	823	82.1	49.3	38.6	38.9	173.4	187.2	182.8	212.8	178.6	309.5	303.6	173.2	1931.0
26	824	92.7	63.7	52.5	43.2	168.0	181.8	223.0	212.5	205.5	298.6	274.4	257.7	2075.0
26	825	133.6	59.6	41.1	36.7	109.7	159.7	157.4	220.1	167.8	231.2	303.2	203.0	1824.0
26	826	105.1	41.5	46.0	72.7	210.0	219.1	229.4	209.7	218.7	240.0	293.6	398.3	2285.0
26	827	94.6	55.4	48.8	105.7	208.5	163.9	221.1	166.1	258.7	244.4	371.4	152.7	2091.0
26	828	63.1	49.7	32.9	41.0	155.4	180.9	247.3	246.5	250.6	257.0	362.9	271.6	2160.0

26	829	104.6	71.3	75.5	152.2	189.5	173.0	229.8	282.6	269.0	311.9	250.5	95.3	2206.0
26	830	64.3	49.2	32.2	38.1	135.2	114.0	97.2	194.5	234.0	250.3	149.4	174.1	1531.0
26	831	82.9	51.1	41.1	46.5	149.5	135.9	156.1	193.5	204.3	245.2	328.0	169.1	1803.0
26	832	62.0	35.5	20.8	25.1	87.0	169.0	199.6	264.5	239.3	345.6	352.0	368.4	2169.0
26	833	102.6	65.4	40.5	62.8	180.3	157.1	196.5	276.4	229.9	208.1	263.0	94.9	1876.0
26	834	76.8	56.7	51.0	59.8	141.1	156.6	179.7	150.0	218.0	300.4	368.5	149.3	1909.0
26	835	130.9	81.5	50.2	36.8	122.0	187.5	146.4	162.2	139.3	193.6	201.8	215.0	1666.0
26	836	80.7	63.5	44.1	148.2	193.1	210.3	154.3	163.9	213.0	242.7	248.3	183.6	1946.0
26	837	87.9	89.6	76.5	55.5	157.0	168.2	171.6	283.4	299.2	353.6	414.1	409.5	2567.0
26	838	132.4	69.2	51.6	67.4	175.9	225.7	144.9	237.9	250.2	307.7	302.2	126.5	2092.0
26	839	75.2	55.2	35.4	166.9	193.1	147.5	185.4	138.9	223.4	283.6	356.1	453.3	2313.0
26	840	172.3	81.3	53.0	76.1	137.2	195.4	194.5	240.9	216.3	303.8	457.7	223.4	2350.0
26	841	83.7	50.2	31.2	45.0	120.2	223.0	237.9	188.6	226.5	333.0	246.4	84.0	1869.0
26	842	55.1	38.7	28.7	47.3	132.7	193.0	242.6	291.8	266.1	307.7	523.7	425.1	2554.0
26	843	105.2	51.4	29.4	33.0	135.0	181.7	238.1	240.1	264.8	311.3	407.8	121.8	2119.0
26	844	87.3	63.7	47.4	93.5	203.6	246.7	221.7	272.5	250.3	385.5	350.2	355.4	2576.0
26	845	308.4	121.4	94.8	55.4	137.2	194.4	168.6	230.6	265.2	321.5	386.9	180.2	2464.0
26	846	77.0	39.0	30.2	39.0	112.7	217.8	186.5	190.5	218.3	264.1	336.7	258.8	1971.0
26	847	86.8	39.1	27.4	69.1	175.5	290.0	260.8	290.4	235.2	244.8	214.2	319.1	2252.0
26	848	101.6	55.8	41.2	50.9	187.2	203.2	270.4	225.4	251.0	345.9	279.9	204.9	2217.0
26	849	90.1	53.6	38.0	32.0	92.7	90.2	108.9	115.6	192.8	212.8	358.9	294.6	1682.0
26	850	112.9	64.7	60.6	114.1	231.5	212.5	235.2	241.5	175.5	200.1	421.0	412.3	2481.0
26	851	260.5	92.8	75.0	74.2	198.6	229.4	158.1	218.2	232.7	393.8	312.0	217.9	2464.0
26	852	144.5	56.1	52.1	50.4	177.9	242.3	229.5	269.1	227.5	248.3	331.4	232.3	2259.0
26	853	84.3	48.2	37.0	64.6	195.1	262.3	230.7	302.6	268.6	306.8	313.4	228.9	2343.0
26	854	94.9	63.9	45.7	58.3	193.4	231.1	257.1	242.7	225.8	304.9	380.0	347.2	2445.0
26	855	144.1	52.4	30.9	35.3	164.2	206.4	209.8	251.4	229.2	257.3	278.0	414.4	2271.0
26	856	174.0	81.2	48.5	115.3	247.5	266.9	252.8	230.6	217.4	278.2	309.4	248.2	2469.0
26	857	118.4	58.9	32.9	43.4	128.1	128.3	116.4	242.7	186.8	225.5	261.2	243.4	1784.0
26	858	81.9	55.0	32.7	44.3	116.3	179.8	197.4	199.6	204.4	219.4	338.6	469.2	2138.0
26	859	113.6	61.0	41.5	36.2	116.7	157.8	225.2	231.0	262.0	314.2	320.8	206.8	2087.0
26	860	67.8	31.2	23.6	25.7	91.2	175.7	253.4	322.8	286.2	255.0	437.0	207.2	2177.0
26	861	93.0	58.3	36.6	78.5	132.2	150.7	145.5	194.6	174.6	291.5	246.1	237.9	1841.0
26	862	160.7	81.4	49.5	46.4	161.0	183.5	173.9	213.5	239.9	311.1	316.6	252.2	2191.0
26	863	70.5	68.4	59.1	64.1	122.5	141.6	207.4	256.1	236.2	295.7	325.4	261.1	2108.0
26	864	65.7	44.0	31.6	40.6	147.7	142.9	150.0	238.5	282.0	283.2	359.3	184.8	1972.0
26	865	91.1	64.3	40.5	56.7	148.3	115.2	172.5	229.5	194.5	298.5	301.6	134.1	1847.0
26	866	66.3	49.5	26.0	56.6	105.0	129.1	162.9	153.7	247.1	297.0	355.6	129.4	1778.0
26	867	64.6	36.8	33.2	30.2	107.2	129.6	144.0	187.1	237.3	331.7	311.3	231.8	1845.0
26	868	92.6	57.6	52.9	44.1	131.1	212.6	223.0	231.5	266.1	270.8	418.9	373.9	2377.0
26	869	286.3	139.6	78.8	56.1	144.5	228.8	252.6	264.0	279.3	315.1	210.0	169.9	2426.0
26	870	126.6	54.1	36.7	46.6	133.9	204.5	177.9	133.4	160.6	296.4	354.5	261.1	1987.0
26	871	149.4	85.2	52.9	56.1	169.6	184.3	283.0	252.0	247.1	296.4	382.4	146.4	2303.0
26	872	70.7	46.3	29.4	54.9	208.2	156.9	112.0	179.6	205.2	348.6	330.3	211.5	1954.0
26	873	109.1	57.0	30.1	44.4	139.7	151.0	219.7	219.2	250.7	363.1	390.1	330.6	2305.0
26	874	91.0	51.0	41.5	52.9	152.2	182.2	169.8	200.8	197.0	310.6	296.8	171.1	1917.0
26	875	109.7	62.2	38.6	46.8	180.3	200.3	206.5	269.8	248.0	310.4	366.6	96.1	2136.0
26	876	67.1	63.8	50.7	54.0	184.8	209.1	193.3	169.9	189.9	298.5	291.6	448.3	2221.0
26	877	119.6	59.7	45.1	90.3	229.2	230.7	159.1	127.9	155.0	220.5	336.6	474.3	2249.0
26	878	197.4	83.8	40.5	49.2	149.3	165.0	198.4	191.4	237.6	216.2	420.4	402.2	2349.0
26	879	123.8	65.1	63.7	270.9	213.3	279.9	303.8	324.2	307.8	251.8	279.1	191.0	2675.0
26	880	63.9	39.5	22.4	29.6	104.7	150.7	169.6	218.6	246.8	335.1	466.3	276.1	2125.0
26	881	100.5	96.9	73.5	69.5	141.9	152.2	195.7	210.5	170.0	285.8	358.3	416.6	2274.0
26	882	263.1	90.0	58.1	51.2	134.2	171.0	146.7	252.9	230.1	282.3	344.0	319.0	2342.0

26	883	92.8	65.2	59.1	86.4	157.9	203.9	215.6	300.7	273.7	320.0	348.7	218.6	2344.0
26	884	80.5	58.6	32.0	39.5	124.8	119.7	190.3	214.0	239.4	285.6	244.9	298.6	1929.0
26	885	129.9	100.7	67.1	46.4	156.8	184.0	221.2	255.6	208.8	283.2	344.0	248.8	2247.0
26	886	136.5	61.8	46.3	70.6	127.0	223.7	279.2	284.3	255.7	290.3	454.5	407.5	2638.0
26	887	75.4	52.0	39.8	76.5	248.5	247.7	216.8	208.3	225.8	336.7	357.1	272.8	2359.0
26	888	97.1	83.8	58.5	94.4	152.2	223.7	226.3	223.7	242.0	258.4	354.9	214.7	2230.0
26	889	79.7	52.4	48.5	202.2	294.1	280.2	276.4	262.5	251.6	281.4	275.6	204.0	2509.0
26	890	87.5	68.7	50.9	53.0	108.6	178.5	248.6	181.8	225.6	209.5	367.1	139.2	1921.0
26	891	87.2	60.1	42.3	64.6	142.7	151.3	111.9	134.4	206.1	275.5	277.2	199.5	1753.0
26	892	75.2	56.7	39.5	59.9	157.8	189.2	171.4	202.6	186.6	296.4	275.5	245.5	1956.0
26	893	72.9	54.3	42.5	33.7	130.3	155.1	209.6	155.1	186.3	320.0	311.8	166.8	1838.0
26	894	88.1	57.7	46.2	79.4	172.9	213.5	230.5	226.4	274.5	329.0	304.2	306.8	2329.0
26	895	110.5	87.5	56.9	47.4	129.2	204.1	256.2	272.2	275.9	303.5	385.2	243.7	2371.0
26	896	225.3	120.2	81.3	82.8	187.2	172.4	148.7	168.5	232.9	284.2	290.2	281.5	2274.0
26	897	147.0	88.3	61.2	108.8	165.6	159.3	128.6	189.8	210.1	272.0	277.8	204.3	2013.0
26	898	147.8	59.1	29.2	24.4	97.6	129.3	181.1	250.9	236.6	184.2	254.9	149.5	1744.0
26	899	72.1	48.0	36.9	61.6	143.0	233.8	250.2	278.7	252.9	288.6	303.8	204.9	2176.0
26	900	120.6	84.5	59.5	78.7	193.1	168.5	132.2	164.1	237.3	230.1	292.6	140.0	1901.0

1

MAXIMUM VOLUMES FOR PERIOD 9 OF 100 YEARS OF SYN'THETIC FLOWS

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	460.6	139.6	94.8	270.9	294.1	290.0	303.8	324.2	307.8	435.3	523.7	474.3	523.7	2057.0	11579.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO
26	55.1	31.2	20.8	24.4	87.0	90.2	78.5	115.6	139.3	184.2	149.4	84.0	20.8	386.6	7863.
STA 26 MONTH 1 MEAN	116.60	VARIANCE	4185.25	STAN. DEV.	64.69										
STA 26 MONTH 2 MEAN	63.67	VARIANCE	420.00	STAN. DEV.	20.49										
STA 26 MONTH 3 MEAN	45.57	VARIANCE	239.33	STAN. DEV.	15.47										
STA 26 MONTH 4 MEAN	68.08	VARIANCE	1621.34	STAN. DEV.	40.27										
STA 26 MONTH 5 MEAN	159.63	VARIANCE	1916.01	STAN. DEV.	43.77										
STA 26 MONTH 6 MEAN	189.79	VARIANCE	2103.31	STAN. DEV.	45.86										
STA 26 MONTH 7 MEAN	201.35	VARIANCE	2650.35	STAN. DEV.	51.48										
STA 26 MONTH 8 MEAN	224.77	VARIANCE	2901.80	STAN. DEV.	53.87										
STA 26 MONTH 9 MEAN	229.03	VARIANCE	1782.35	STAN. DEV.	42.22										
STA 26 MONTH 10 MEAN	286.23	VARIANCE	3025.18	STAN. DEV.	55.00										
STA 26 MONTH 11 MEAN	322.63	VARIANCE	5994.52	STAN. DEV.	77.42										
STA 26 MONTH 12 MEAN	253.83	VARIANCE	10187.00	STAN. DEV.	100.93										

1 GENERATED FLOWS AND NORMALIZED STATISTICS FOR PERIOD 10

STA 26 MONTH 1	MEAN-0.004	STD DEVO.068
STA 26 MONTH 2	MEAN-0.004	STD DEVO.063
STA 26 MONTH 3	MEAN 0.000	STD DEVO.067
STA 26 MONTH 4	MEAN 0.001	STD DEVO.065
STA 26 MONTH 5	MEAN 0.002	STD DEVO.068
STA 26 MONTH 6	MEAN 0.003	STD DEVO.063
STA 26 MONTH 7	MEAN 0.011	STD DEVO.066
STA 26 MONTH 8	MEAN 0.008	STD DEVO.065
STA 26 MONTH 9	MEAN 0.010	STD DEVO.053
STA 26 MONTH 10	MEAN-0.004	STD DEVO.061
STA 26 MONTH 11	MEAN-0.008	STD DEVO.065
STA 26 MONTH 12	MEAN 0.001	STD DEVO.064

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STA	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
26	901	64.1	42.2	40.8	79.2	127.2	135.5	188.3	228.8	216.7	269.0	360.5	392.2	2143.0	
26	902	178.1	68.2	48.2	42.4	119.9	171.3	189.5	148.1	144.1	276.5	343.6	271.1	2000.0	
26	903	126.5	62.3	44.8	59.0	146.7	145.6	159.8	211.0	233.5	366.9	283.6	130.0	1971.0	
26	904	112.8	56.4	34.7	31.7	112.5	150.8	226.7	270.3	286.2	301.0	352.1	122.4	2057.0	
26	905	82.0	75.0	57.1	43.9	155.5	198.8	219.0	302.7	252.3	277.9	312.4	210.4	2186.0	
26	906	88.9	61.1	49.9	37.9	127.9	153.6	223.9	206.4	234.2	263.3	252.5	165.4	1864.0	
26	907	71.2	56.9	38.9	130.8	222.8	225.0	236.1	212.2	202.9	216.0	371.9	247.2	2232.0	
26	908	146.0	76.6	53.0	115.8	194.2	162.8	169.6	175.5	138.5	287.4	438.0	207.4	2164.0	
26	909	78.9	60.4	62.5	98.9	233.0	164.0	94.9	132.8	192.8	274.5	270.4	132.0	1796.0	
26	910	87.4	39.5	28.6	38.7	122.8	151.5	130.3	120.4	213.1	307.6	288.4	301.5	1828.0	
26	911	77.1	58.3	35.8	64.5	161.2	247.1	241.5	280.1	260.2	241.5	311.5	486.5	2465.0	
26	912	447.3	106.1	59.2	64.4	166.2	231.3	230.4	258.1	210.9	305.2	431.9	164.2	2673.0	
26	913	60.8	40.8	22.5	45.4	174.8	158.1	225.3	282.6	277.2	283.5	314.7	281.6	2169.0	
26	914	90.0	73.1	55.9	39.5	121.7	193.7	226.6	253.6	214.2	277.4	248.8	115.4	1910.0	
26	915	66.5	37.3	27.2	31.3	108.3	214.5	273.8	280.5	295.8	352.6	366.3	356.4	2409.0	
26	916	110.0	52.9	42.9	39.7	108.4	157.7	200.3	187.4	208.4	198.1	228.8	161.0	1695.0	
26	917	113.7	85.2	70.5	52.2	114.7	155.2	140.4	182.8	260.5	300.7	267.7	240.4	1984.0	
26	918	72.0	47.7	35.7	30.8	174.6	239.3	210.9	199.5	258.2	302.8	298.2	139.1	2009.0	
26	919	69.1	61.8	41.2	65.3	127.2	170.2	227.6	249.2	217.5	193.5	306.5	320.5	2048.0	
26	920	82.8	56.0	41.6	58.0	133.7	182.6	213.0	275.3	284.1	399.4	564.8	400.6	2693.0	
26	921	155.2	122.3	94.3	61.6	144.3	180.1	220.4	272.5	256.5	318.3	471.2	457.2	2752.0	
26	922	138.8	109.2	64.0	48.5	153.8	196.2	220.6	191.4	179.1	275.6	263.6	166.1	2007.0	
26	923	102.8	50.8	45.7	67.9	211.8	204.4	109.7	169.1	222.7	281.0	332.8	215.8	2016.0	
26	924	125.7	67.2	42.8	30.7	105.7	184.6	202.2	244.1	216.8	278.2	304.0	122.2	1925.0	
26	925	68.5	49.2	34.0	51.3	180.6	234.5	176.2	223.1	233.7	338.3	371.4	152.5	2112.0	
26	926	87.4	64.6	53.8	41.8	119.3	190.9	218.5	225.7	240.8	302.5	251.7	268.0	2066.0	
26	927	144.1	66.1	63.1	116.5	230.3	185.6	202.3	201.2	235.2	267.7	332.6	233.7	2278.0	
26	928	112.7	48.5	36.9	82.0	151.6	205.6	183.4	200.1	257.7	270.6	280.5	207.9	2040.0	
26	929	93.2	78.6	42.0	91.4	132.8	213.5	161.7	219.8	184.4	253.9	378.9	385.5	2237.0	
26	930	184.9	82.6	65.2	229.2	197.4	231.9	234.4	249.0	219.7	276.4	239.5	196.0	2406.0	
26	931	67.5	59.1	32.2	36.1	97.5	137.3	107.3	180.3	223.5	346.9	351.4	215.6	1854.0	
26	932	265.9	91.6	65.3	75.6	214.0	208.1	177.1	230.2	225.1	268.9	319.4	290.9	2432.0	
26	933	221.0	66.4	50.0	47.4	154.8	280.1	235.9	224.5	237.6	237.6	257.0	348.6	276.3	2399.0
26	934	167.5	96.3	80.4	79.9	167.7	214.0	200.1	230.5	233.1	283.8	302.4	174.3	2230.0	
26	935	61.1	50.5	31.4	44.7	160.4	178.2	251.6	289.6	237.6	339.4	388.7	252.3	2285.0	
26	936	68.6	48.0	43.7	43.9	228.7	208.2	172.5	224.8	220.4	270.2	311.0	180.2	2021.0	
26	937	84.2	60.9	33.8	30.6	113.4	179.3	195.3	177.7	202.2	246.5	312.2	338.5	1974.0	
26	938	163.4	85.6	62.9	115.9	266.6	240.1	301.3	314.6	232.4	350.5	382.7	323.9	2841.0	
26	939	133.6	73.3	59.0	80.0	207.1	204.1	184.7	263.0	219.0	248.7	206.5	223.1	2103.0	
26	940	105.9	60.6	38.9	118.2	167.9	187.4	238.7	215.2	235.2	245.0	209.3	132.0	1954.0	
26	941	81.6	45.4	27.3	43.7	221.5	189.9	181.3	227.0	218.0	267.7	271.9	195.3	1971.0	
26	942	64.8	55.3	37.3	69.8	181.7	136.9	249.2	309.4	226.6	236.1	241.0	156.1	1964.0	
26	943	174.6	64.2	46.9	62.6	208.6	177.2	217.5	208.5	212.2	264.7	295.5	134.8	2069.0	
26	944	111.6	58.2	32.0	33.9	142.5	171.3	231.0	240.8	210.8	327.9	380.3	261.3	2201.0	
26	945	303.1	66.6	53.2	118.0	259.4	268.6	229.0	186.8	224.2	330.0	296.8	202.6	2539.0	
26	946	165.7	80.4	52.9	93.2	136.5	213.8	215.0	205.0	276.0	362.5	296.9	392.2	2490.0	
26	947	185.4	108.1	66.6	55.9	116.1	99.7	171.3	191.0	211.2	241.5	194.8	68.3	1709.0	
26	948	54.3	27.9	20.7	84.3	175.6	248.8	296.3	299.5	248.0	274.5	387.1	262.1	2379.0	
26	949	168.1	77.1	43.0	47.7	127.8	131.6	87.8	104.9	179.0	250.7	247.1	163.3	1629.0	
26	950	65.9	55.3	39.5	38.2	126.2	158.3	200.5	129.6	213.1	383.3	562.6	202.4	2173.0	
26	951	85.3	80.3	52.2	65.0	165.4	191.1	245.6	267.9	254.3	322.6	326.3	202.7	2258.0	
26	952	111.3	51.3	38.3	50.7	153.8	258.0	288.9	281.3	249.0	272.1	334.6	238.2	2327.0	
26	953	82.7	48.3	33.9	76.9	167.9	132.7	137.1	169.4	258.7	405.9	445.6	382.3	2342.0	

26	954	181.2	67.0	42.0	27.4	105.2	120.4	179.7	273.1	301.8	259.6	302.5	274.6	2134.0
26	955	127.1	49.8	35.2	46.7	135.7	138.9	126.2	247.2	166.6	213.2	163.8	179.2	1630.0
26	956	76.4	48.4	41.6	83.9	174.6	205.9	243.3	280.3	231.0	255.7	329.8	190.2	2161.0
26	957	131.3	55.7	39.8	182.7	243.3	259.4	253.6	254.8	226.9	283.0	394.5	309.5	2635.0
26	958	110.6	72.0	42.1	85.0	235.4	238.3	247.1	270.7	213.2	333.2	399.5	284.8	2531.0
26	959	79.2	60.3	44.4	98.8	140.3	162.6	206.3	246.4	242.0	248.6	273.0	447.6	2249.0
26	960	111.8	53.4	43.6	55.0	121.1	133.0	126.2	142.8	200.9	257.5	278.7	185.0	1709.0
26	961	103.0	58.1	54.6	112.3	247.7	274.5	258.4	197.3	250.9	271.0	246.3	273.6	2347.0
26	962	126.5	61.8	41.6	96.8	169.9	208.8	275.5	296.4	273.0	377.4	426.6	246.3	2600.0
26	963	73.2	46.5	33.7	27.1	99.5	188.4	252.5	278.5	239.9	267.3	303.1	214.2	2022.0
26	964	97.9	56.4	42.2	48.2	167.3	162.4	118.9	195.9	200.6	329.4	271.6	387.7	2078.0
26	965	94.5	35.6	24.3	39.8	125.8	209.7	222.3	260.2	274.6	342.3	378.4	383.0	2391.0
26	966	121.4	61.8	53.2	59.2	190.5	148.4	176.2	171.4	151.2	246.9	264.8	234.0	1877.0
26	967	78.5	46.4	27.9	46.9	153.3	174.8	185.6	237.8	268.2	349.0	387.5	308.1	2263.0
26	968	112.1	55.1	32.6	42.3	112.4	180.7	212.0	291.2	296.7	293.3	403.2	293.0	2324.0
26	969	101.0	52.1	44.7	78.1	166.5	141.4	142.2	156.8	260.5	376.6	370.4	598.3	2488.0
26	970	195.7	122.9	86.0	137.3	195.0	192.4	217.7	260.1	272.9	245.2	213.9	160.6	2300.0
26	971	108.7	56.9	40.4	72.7	215.7	244.7	122.6	182.0	193.9	209.9	287.2	202.2	1938.0
26	972	95.1	60.1	49.5	84.5	179.4	219.8	204.1	267.4	301.2	309.4	328.2	190.4	2286.0
26	973	88.5	67.6	47.8	70.8	192.4	223.1	231.2	285.0	248.4	419.7	451.1	193.1	2519.0
26	974	130.9	76.8	54.4	48.5	114.9	148.0	186.5	223.6	220.7	294.0	362.1	767.9	2630.0
26	975	205.5	90.2	65.8	54.6	184.6	232.3	198.4	164.2	220.2	311.7	376.1	350.7	2455.0
26	976	135.0	58.8	42.3	23.8	112.4	135.6	217.2	197.7	221.0	244.0	409.7	125.7	1924.0
26	977	64.9	38.8	26.0	64.9	198.1	232.9	239.2	200.2	221.1	196.8	348.4	373.8	2205.0
26	978	103.2	58.9	45.7	39.8	140.3	193.5	222.5	252.2	269.6	256.2	329.7	292.0	2203.0
26	979	88.9	46.0	31.9	125.0	237.3	197.3	290.6	299.9	274.8	336.5	379.8	228.4	2537.0
26	980	132.7	94.4	73.4	96.2	240.5	310.4	235.2	289.4	294.8	400.5	216.7	190.4	2573.0
26	981	59.7	47.8	37.1	38.5	174.1	180.8	291.2	321.1	280.8	347.0	326.3	596.4	2701.0
26	982	158.7	78.5	63.6	107.1	199.2	189.5	166.9	203.7	160.9	256.9	288.1	313.2	2187.0
26	983	98.9	65.1	50.9	42.9	165.9	171.5	148.6	269.4	256.6	306.1	418.7	267.9	2264.0
26	984	72.4	35.2	26.8	56.5	157.1	185.5	150.2	165.1	169.4	218.0	297.2	215.5	1747.0
26	985	87.0	73.7	48.7	88.1	198.5	202.4	229.7	169.5	232.4	338.1	358.4	285.3	2310.0
26	986	168.1	76.9	44.8	51.0	131.3	160.5	114.5	181.0	222.8	291.3	285.5	225.2	1952.0
26	987	100.5	66.8	36.5	55.9	142.3	236.7	276.6	301.3	272.9	280.6	368.1	439.7	2579.0
26	988	103.6	66.7	55.5	40.0	93.6	93.5	133.0	146.0	206.1	231.8	349.2	319.2	1838.0
26	989	181.4	76.9	67.4	78.8	204.8	268.8	278.3	301.6	213.4	304.5	383.6	213.9	2574.0
26	990	146.4	73.8	61.4	84.8	147.6	251.5	192.4	212.1	268.0	252.0	291.6	201.0	2182.0
26	991	83.0	58.6	35.5	90.1	167.6	177.2	187.2	157.9	246.0	276.9	272.9	252.8	2006.0
26	992	123.5	82.2	45.0	90.6	165.1	218.2	184.0	189.7	241.3	259.7	330.0	330.9	2261.0
26	993	95.6	56.8	32.8	34.2	123.3	147.9	191.9	144.3	180.4	272.0	293.0	278.1	1850.0
26	994	65.1	70.8	52.4	103.4	193.3	211.2	170.8	198.3	191.1	267.4	403.2	189.3	2114.0
26	995	84.6	68.8	57.4	80.8	134.5	210.5	131.7	246.0	198.1	318.5	258.9	136.7	1928.0
26	996	93.9	52.6	34.9	64.4	152.2	238.2	213.2	251.7	217.7	318.0	345.2	251.7	2234.0
26	997	132.8	120.6	87.9	72.7	141.1	217.3	254.2	285.0	264.0	252.8	200.6	168.4	2198.0
26	998	99.5	53.7	34.4	51.0	104.9	117.2	186.7	237.2	213.0	190.6	263.4	211.5	1763.0
26	999	88.4	63.2	40.7	58.6	118.6	160.6	174.6	190.9	200.0	290.6	270.4	125.3	1783.0
26	1000	61.1	33.5	18.9	25.5	121.6	175.9	230.2	239.9	272.9	315.1	398.9	219.5	2114.0

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MAXIMUM VOLUMES FOR PERIOD 10 OF 100 YEARS OF SYN'THETIC FLOWS

MANUFACTURED VEHICLES FOR FEBRUARY 2011
 STA 1 2 3 4 5 6 7 8 9 10 11 12 1-MO 6-MO 54-MO
 26 447.3 122.9 94.3 229.2 266.6 310.4 301.3 321.1 301.8 419.7 564.8 767.9 767.9 2162.7 11621.

MINIMUM VOLUMES

STA	1	2	3	4	5	6	7	8	9	10	11	12	1-MO	6-MO	54-MO	
26	54.3	27.9	18.9	23.8	93.6	93.5	87.8	104.9	138.5	190.6	163.8	68.3	18.9	385.8	8293.	
STA 26 MONTH 1	MEAN	115.50	VARIANCE	3280.15	STAN. DEV.	57.27										
STA 26 MONTH 2	MEAN	64.08	VARIANCE	389.98	STAN. DEV.	19.75										
STA 26 MONTH 3	MEAN	45.95	VARIANCE	228.42	STAN. DEV.	15.11										
STA 26 MONTH 4	MEAN	67.40	VARIANCE	1161.63	STAN. DEV.	34.08										
STA 26 MONTH 5	MEAN	160.56	VARIANCE	1996.82	STAN. DEV.	44.69										
STA 26 MONTH 6	MEAN	189.67	VARIANCE	2119.41	STAN. DEV.	46.04										
STA 26 MONTH 7	MEAN	200.39	VARIANCE	2687.73	STAN. DEV.	51.84										
STA 26 MONTH 8	MEAN	224.19	VARIANCE	3035.10	STAN. DEV.	55.09										
STA 26 MONTH 9	MEAN	228.67	VARIANCE	1752.16	STAN. DEV.	41.86										
STA 26 MONTH 10	MEAN	285.54	VARIANCE	3213.77	STAN. DEV.	56.69										
STA 26 MONTH 11	MEAN	321.52	VARIANCE	6192.92	STAN. DEV.	78.70										
STA 26 MONTH 12	MEAN	254.25	VARIANCE	13212.57	STAN. DEV.	114.95										

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