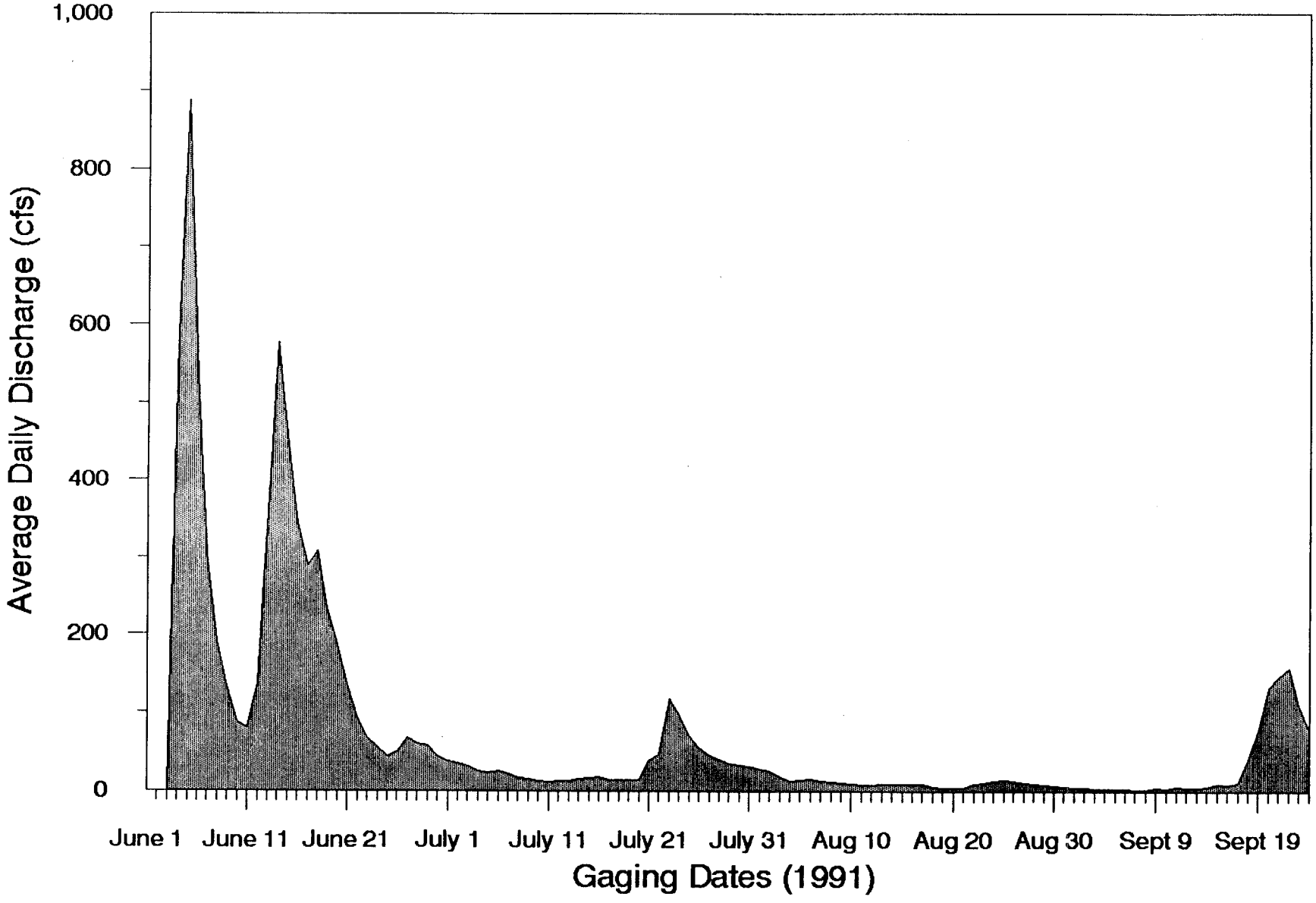
Sikrelurak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River

LOCATION.--Lat 69°49′58", long 145°33′10", in SW¼NE¼ sec. 35, T.6N., R.26E., 11.8 miles upstream from the confluence of the West Fork, Tamayariak River, 53 miles west-southwest of Kaktovik, Alaska.

DRAINAGE AREA.--136.1 mi², of which 56.8 mi² is located within the Arctic National Wildlife Refuge Wilderness Area.

PERIOD OF RECORD.--July to Sept. 1988; June to Sept. 1989; June to Sept. 1990;June to Sept. 1991.

REMARKS.--This is a 5th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREMES FOR PERIOD OF RECORD.--Maximum Discharge, 3,244 cfs Aug. 22, 1991 @ 0030 hrs; Minimum Discharge, 8.3 cfs Sept. 14, 1991 @ 1730 hrs.

JUNE 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	1024	2325	1477	1145	803
5	978	2400	1339	1410	803
6	762	0010	1012	1430	664
7	522	2400	722	2355	420
8	343	0005	427	0920	291
9	279	2400	329	1110	250
10	207	0015	256	2355	178
11	143	2400	178	0945	131
12	139	2355	169	1325	131
13	343	2350	1120	2400	169
14	1759	0805	2149	2400	1108
15	1012	0015	1477	2350	824
16	664	0010	855	2115	573
17	591	2255	792	1135	490
18	803	2020	1048	0735	645
19	732	2400	955	1300	573
20	782	2115	989	1035	636
21	752	0010	921	1000	609
22	573	0010	877	1600	450
23	498	2125	674	1135	391
24	391	0010	618	1415	304
25	329	2335	398	1315	267
26	474	1505	664	0640	349
27	427	2400	531	1430	336
28	398	2400	482	1305	329
29	405	2020	506	0925	323
30	363	0010	466	2350	323
TOTAL	15692		- - -		- - -
AVERAGE	581		794		458
MAXIMUM	1759		2149		1108
MINIMUM	139		169		131
ACRE FT	31124		- - -		- - -

ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River

JULY 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	245	2400	323	1845	218
2	197	0130	228	1420	173
3	160	0035	188	1545	139
4	131	0155	151	1930	112
5	116	2330	135	1530	105
6	143	2355	207	1325	123
7	160	0125	212	2345	116
8	98	2400	119	2355	83
9	71	2400	83	2355	66
10	66	1230	71	0220	64
11	66	1630	71	0145	66
12	69	2355	83	0725	66
13	80	0115	83	1640	77
14	86	2355	108	0015	77
15	139	2355	234	2400	108
16	279	0520	349	0005	234
17	218	0110	256	1405	197
18	239	2350	250	0100	228
19	356	0705	435	2400	250
20	- - -		- - -		- - -
21	- - -		- - -		- - -
22	- - -		- - -		- - -
23	- - -		- - -		- - -
24	- - -		- - -		- - -
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
31	- - -		- - -		- - -
TOTAL	3185		- - -		- - -
AVERAGE	159		195		137
MAXIMUM	356		435		250
MINIMUM	66		71		64
ACRE FT	6317		- - -		- - -

ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River

AUGUST 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	- - -		- - -		- - -
5	- - -		- - -		- - -
6	159	1245	274	2400	93
7	137	0020	176	2235	118
8	127	2330	196	1025	111
9	178	0255	199	2320	150
10	128	0005	152	2345	112
11	110	0025	115	2350	106
12	102	0150	109	1925	96
13	94	2355	102	1725	88
14	101	0505	107	2250	94
15	100	2355	114	0055	95
16	121	0700	125	0005	112
17	115	0215	121	2255	110
18	104	0045	112	2305	96
19	91	0010	98	2355	85
20	80	0030	86	1950	75
21	72	0015	76	2230	66
22	142	2325	3028	0240	66
23	2442	0030	3244	2355	1892
24	1105	0005	2210	2320	664
25	463	0020	758	2255	356
26	274	0005	369	2325	223
27	216	0415	235	2320	202
28	212	1320	227	2210	199
29	216	1200	235	2350	199
30	196	0955	212	2255	173
31	166	0615	178	2345	150
TOTAL	7250		- - -		- - -
AVERAGE	279		494		221
MAXIMUM	2442		3244		1892
MINIMUM	72		76		66
ACRE FT	14380		- - -		- - -

ARCTIC NATIONAL WILDLIFE REFUGE

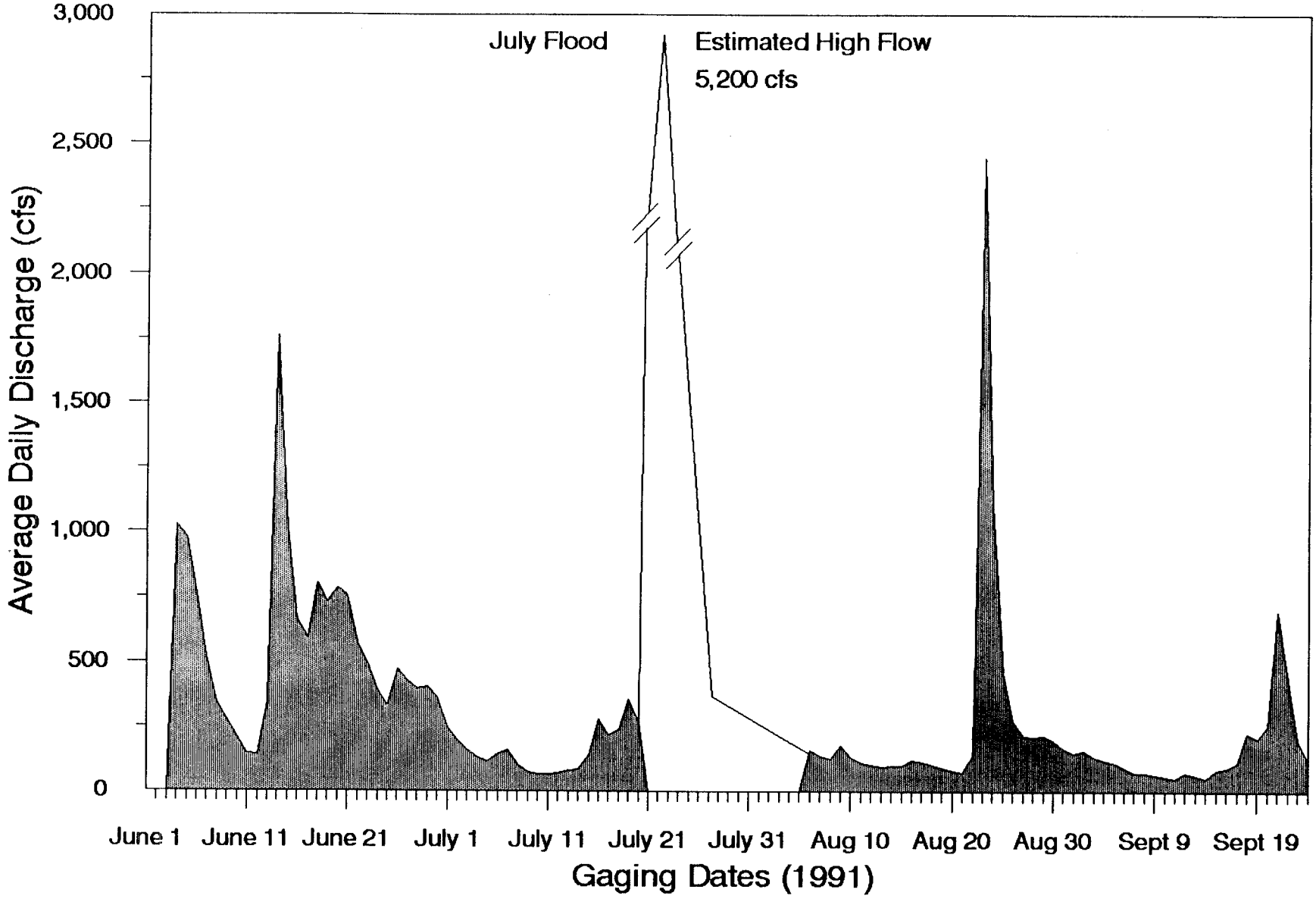
Tamayariak River

SEPTEMBER 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	150	0105	159	2030	142
2	161	0900	178	2350	146
3	133	0025	146	2320	122
4	121	0955	125	2340	111
5	111	1455	118	2255	104
6	93	2400	105	2355	82
7	75	1425	84	0910	65
8	73	1820	80	0230	68
9	66	2400	71	2355	62
10	59	2050	79	1345	35
11	50	0015	71	1000	33
12	73	1105	98	1825	62
13	62	0145	68	2320	56
14	50	1010	71	1730	8.3
15	84	0155	110	2400	65
16	91	0145	107	2350	79
17	112	2040	231	0620	73
18	227	0520	260	2355	193
19	209	2305	274	1005	178
20	255	2345	424	1410	212
21	698	1435	948	2400	389
22	440	0020	709	2350	288
23	206	2400	304	2340	150
24	121	2400	152	1150	95
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
TOTAL	3720		- - -		- - -
AVERAGE	155		207		117
MAXIMUM	698		948		389
MINIMUM	50		68		8.3
ACRE FT	7378		- - -		- - -

Tamayariak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, LOWER WEST FORK

LOCATION.--Lat 69°58'50", long 145°47'40", NW¼NW¼sec 12, T.7N., R.25E., 1.5 miles upstream from the confluence with the Tamayariak River, 54 miles west-southwest of Kaktovik, Alaska.

DRAINAGE AREA.--98.14 mi², of which 5.55 mi² are located within the Arctic National Wildlife Refuge Wilderness Area.

PERIOD OF RECORD.--July to Sept. 1988; June to Sept. 1989; June to Sept. 1990; June to Sept. 1991.

REMARKS.--This is a 4th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREMES.--Maximum Discharge, 1,433 cfs July 21, 1991; Minimum Discharge, 9.0 cfs August 6 & 7, 1988.

JUNE 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	- - -		- - -		- - -
5	- - -		- - -		- - -
6	- - -		- - -		- - -
7	537	0011	817	1646	407
8	341	0041	517	1716	240
9	265	0001	352	1826	208
10	205	0141	258	2206	151
11	142	0021	163	1556	125
12	144	2351	173	1456	133
13	288	2351	799	0006	168
14	1187	2121	1382	0006	781
15	811	0001	1331	1446	607
16	441	0006	693	1726	330
17	312	2346	458	1301	249
18	485	2331	757	1256	375
19	576	0021	769	1516	419
20	537	0001	722	1216	428
21	467	0141	649	1616	356
22	341	0306	556	1811	237
23	219	0211	284	1826	168
24	183	0206	246	2001	142
25	140	0311	176	1856	114
26	142	0906	163	1836	125
27	135	0421	163	1951	110
28	135	0431	173	1856	110
29	138	2356	176	1551	114
30	151	0226	186	2351	116
TOTAL	8320		- - -		- - -
AVERAGE	347		498		259
MAXIMUM	1187		1382		781
MINIMUM	135		163		110
ACRE FT	16502		- - -		- - -

ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, LOWER WEST FORK

JULY 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	92	0036	118	2311	72
2	66	0336	77	2326	55
3	51	0646	56	2311	45
4	42	0026	45	2306	40
5	39	0231	42	1716	37
6	35	0101	38	1631	32
7	38	1901	45	1046	33
8	40	0141	43	2326	37
9	34	0111	38	2001	32
10	34	0816	38	2231	31
11	30	0231	33	2131	28
12	28	0636	30	1851	27
13	27	0541	28	2121	25
14	24	0531	27	1721	22
15	24	2306	28	1516	22
16	25	0001	28	1046	24
17	26	1551	27	0951	25
18	26	2356	28	1356	25
19	51	2341	88	0016	28
20	94	0611	101	0001	88
21	341	2301	1433	0046	95
22	929	2356	1356	1736	628
23	1756 e		- - -		- - -
24	1043 e		- - -		- - -
25	163	0004	235	2359	117
26	92	0004	119	2324	73
27	71	0624	77	2124	66
28	66	0514	68	2344	60
29	56	0014	61	2134	50
30	49	0059	51	2324	46
31	46	0004	49	2044	43
TOTAL	5436		- - -		- - -
AVERAGE	175		152		66
MAXIMUM	1756		1433		628
MINIMUM	24		27		22
ACRE FT	10782		- - -		- - -

NOTE: e = Estimated

ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, LOWER WEST FORK

AUGUST 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	42	0049	44	2054	40
2	40	0434	41	2204	38
3	38	0729	39	2334	37
4	36	0644	37	2219	35
5	33	0519	35	2104	29
6	30	0304	34	1654	27
7	29	0429	31	1639	29
8	29	0359	29	1814	28
9	28	0004	29	1654	26
10	28	1404	29	0009	27
11	29	1549	29	0234	27
12	27	0004	28	2309	25
13	24	0524	26	2014	23
14	23	0629	24	2209	22
15	25	1329	28	0024	22
16	23	0414	24	1909	21
17	22	0814	24	2259	21
18	22	0709	22	2239	21
19	21	0729	22	2019	20
20	20	0854	21	2254	19
21	19	0704	20	2354	18
22	24	1434	29	0254	17
23	48	2359	64	0004	27
24	241	0804	332	0004	64
25	193	0044	241	2359	145
26	120	0029	147	2354	97
27	83	0014	97	2359	73
28	70	0004	74	1134	66
29	70	0344	73	2134	68
30	63	0049	70	2329	54
31	48	0019	55	2309	42
TOTAL	1547		- - -		- - -
AVERAGE	50		58		39
MAXIMUM	241		332		145
MINIMUM	19		20		17
ACRE FT	3069		- - -		- - -

ARCTIC NATIONAL WILDLIFE REFUGE

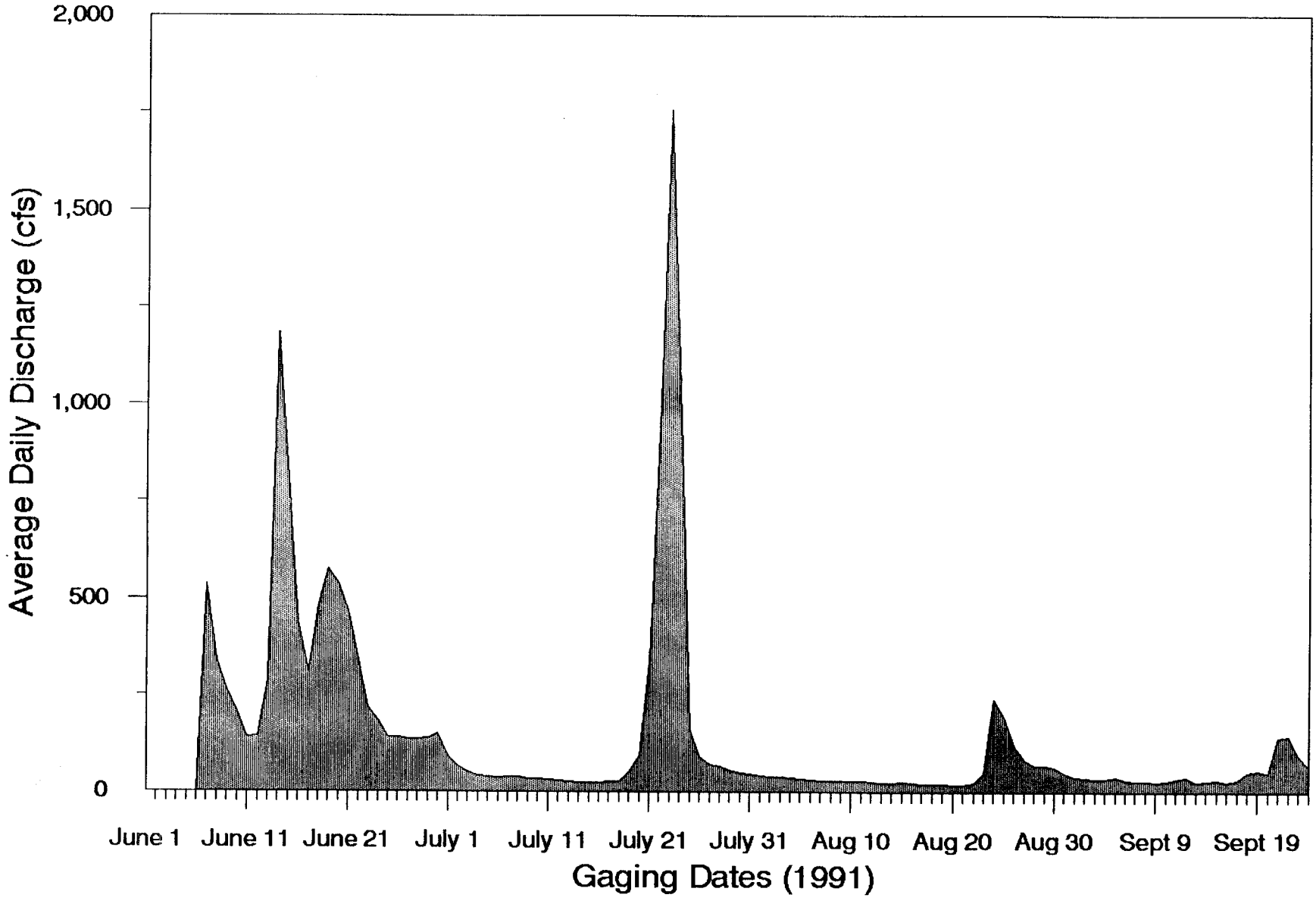
TAMAYARIAK RIVER, LOWER WEST FORK

SEPTEMBER 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	40	0209	43	2129	37
2	36	0059	38	2129	34
3	34	0359	35	1759	33
4	35	2154	39	0039	33
5	39	1349	45	2344	34
6	32	0219	37	2339	29
7	28	0009	29	1649	26
8	29	0944	34	1709	27
9	26	0059	28	1829	25
10	29	2329	34	0304	25
11	33	1104	55	2309	26
12	39	0844	74	2349	26
13	25	1004	29	1829	24
14	28	1009	42	0454	23
15	30	1129	45	2349	24
16	26	1004	42	0419	19
17	30	2354	49	0109	23
18	51	2329	61	1019	49
19	56	0149	61	2229	54
20	50	0004	55	1934	46
21	141	2349	165	0004	51
22	145	0134	167	2354	120
23	97	0024	122	2319	74
24	66	1154	92	2359	46
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29					

Lower West Fork Tamayariak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River, Middle Fork

LOCATION.-Lat 69°58′33", long 145°46′44", in center sec 12, T.7N., R.25E., 0.4 miles upstream from the confluence with the West Fork Tamayariak River, 54 miles west-southwest of Kaktovik, Alaska.

DRAINAGE AREA.-61.3 mi², of which 0.79 mi² are located within the Arctic National Wildlife Wilderness Area.

PERIOD OF RECORD.--July to Sept. 1988; June to Sept. 1989; June to Sept. 1990; June to Sept. 1991.

REMARKS.-This is a 4th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREMES FOR PERIOD OF RECORD.-Maximum Discharge, 636.9 cfs Sept. 6, 1990 @ 1924 hrs; Minimum Discharge, 0.1 cfs Sept. 19, 1990 @ 2359 hrs.

JUNE 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	1293	0003	1867	1008	903
5	845	0003	1477	1338	574
6	499	0008	932	1258	382
7	219	0008	420	1613	185
8	120	0003	185	0753	103
9	86	0008	127	1803	74
10	55	0003	77	2358	42
11	38	2358	54	0708	32
12	66	2333	120	0753	52
13	808	2358	930	0333	118
14	817	0828	932	0008	633
15	426	0003	705	1148	351
16	252	0033	361	1248	205
17	226	2113	404	1028	150
18	326	1903	444	0823	237
19	230	0003	371	1128	158
20	249	1943	346	0908	170
21	192	0003	303	1038	140
22	116	0003	245	1448	84
23	74	0003	99	1248	58
24	75	0013	119	1413	59
25	66	2323	87	1313	52
26	77	2358	104	1258	67
27	78	2348	106	1353	63
28	83	0008	108	1253	64
29	87	2013	119	1003	64
30	73	0003	104	2253	66
TOTAL	7478		- - -		- - -
AVERAGE	277		413		188
MAXIMUM	1293		1867		903
MINIMUM	38		54		32
ACRE FT	14833		- - -		- - -

ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River, Middle Fork

JULY 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	55	0003	67	1508	50
2	43	0008	56	1838	38
3	34	0018	43	1808	30
4	28	0243	33	2353	24
5	23	2358	26	1458	22
6	27	2358	34	1403	25
7	29	0158	38	2353	24
8	22	0003	24	1803	21
9	20	0038	21	2323	18
10	18	0553	20	2358	16
11	16	0003	16	1753	15
12	15	0248	16	2023	14
13	16	0333	16	2358	14
14	14	2358	18	1603	14
15	21	2353	28	0003	18
16	29	2358	46	1443	25
17	33	0033	47	1708	27
18	28	0118	34	1918	24
19	26	2358	36	1418	23
20	33	2353	39	1438	30
21	181	2218	1031	0143	39
22	599	2358	1336	1443	412
23	800	0033	1362	2358	423
24	264	0008	427	2353	173
25	121	0003	173	2358	89
26	72	0008	89	2358	62
27	57	0028	63	2338	54
28	52	0043	56	2333	49
29	44	0118	49	1943	41
30	38	0013	42	1603	36
31	39	0648	41	1753	37
TOTAL	2795		- - -		- - -
AVERAGE	90		172		61
MAXIMUM	800		1362		423
MINIMUM	14		16		14
ACRE FT	5544		- - -		- - -

ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River, Middle Fork

AUGUST 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	35	0003	38	2333	34
2	31	0023	34	2328	28
3	27	0033	29	2358	26
4	25	0003	26	2213	24
5	23	2323	30	1743	20
6	26	0443	32	2208	20
7	19	0928	20	2123	17
8	18	1823	20	2313	17
9	15	0023	17	2303	14
10	13	0043	14	2108	13
11	10 e		- - -		- - -
12	9.5 e		- - -		- - -
13	9.5 e		- - -		- - -
14	9.5	0527	10	2257	8.8
15	9.9	1242	11	0132	8.8
16	8.8	0007	9.5	2012	8.2
17	8.5	0532	9.1	2352	7.9
18	7.6	0432	7.9	2322	7.4
19	7.4	1517	7.4	2257	7.2
20	7.2	1237	7.2	2327	6.9
21	6.9	1117	7.2	2037	6.7
22	11	2347	16	0032	6.9
23	111	2347	278	0017	16
24	225	0042	281	2357	176
25	134	0047	178	2337	102
26	81	0042	104	2342	65
27	53	0002	66	2347	44
28	37	0022	45	2357	33
29	27	0017	33	2347	24
30	21	0012	24	2347	18
31	17	0032	19	2347	16
TOTAL	1048		- - -		- - -
AVERAGE	34		49		28
MAXIMUM	225		281		176
MINIMUM	6.9		7.2		6.7
ACRE FT	2078		- - -		- - -

NOTE: e = Estimated

ARCTIC NATIONAL WILDLIFE REFUGE

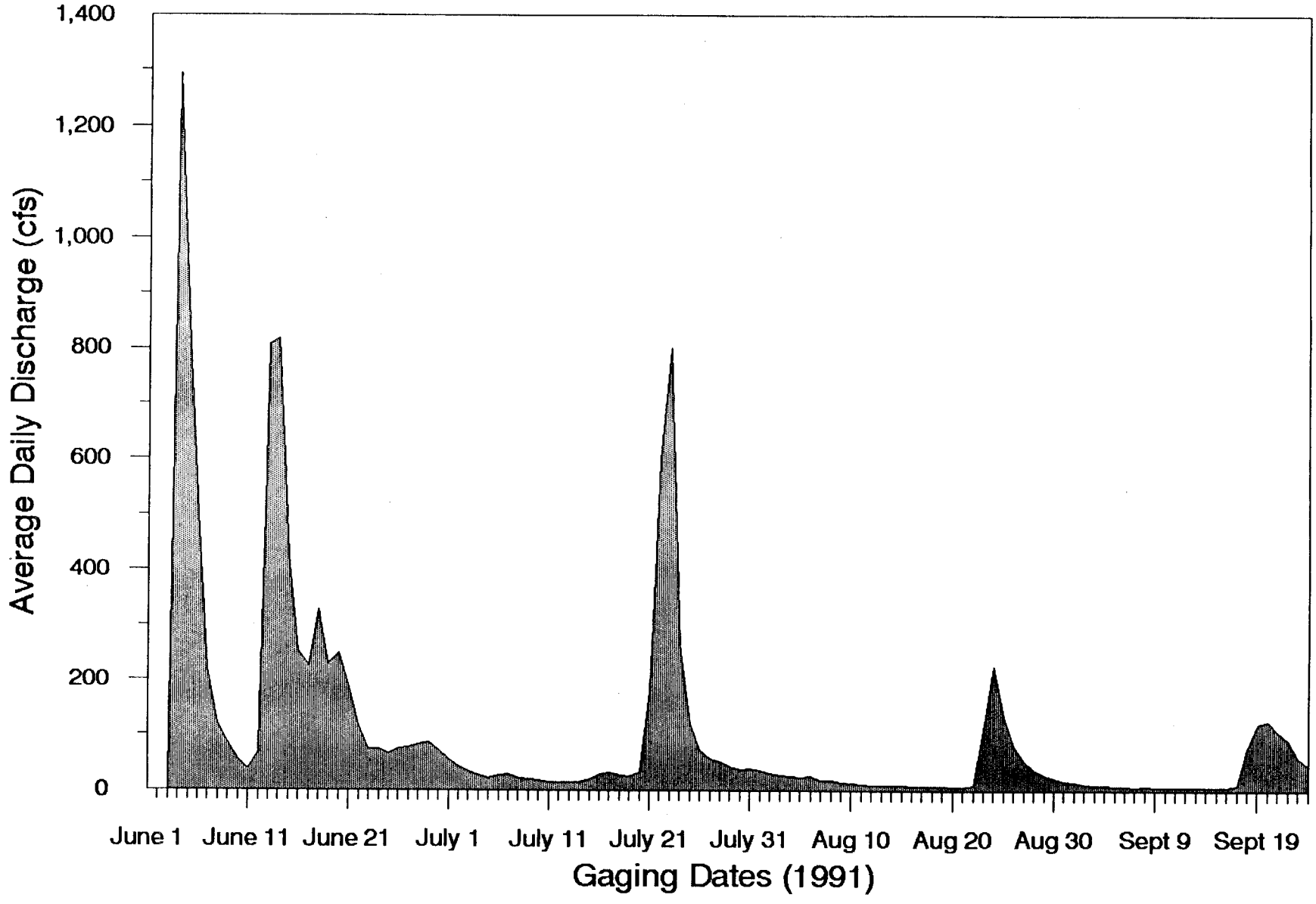
Tamayariak River, Middle Fork

SEPTEMBER 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	15	0017	16	2342	14
2	12	0022	14	2307	11
3	11	0102	11	2322	9.9
4	9.5	0042	10	2147	8.5
5	7.9	0012	9	2212	7.4
6	7.4	0912	8	2347	7.2
7	6.9	0002	7	1937	6.9
8	7.9	0447	12	2017	6.7
9	6.5	0002	7	2357	6.2
10	6.1	1322	7	0917	5.5
11	6.4	1332	10	0902	5.5
12	6.9	1027	10	0052	5.6
13	6.4	0547	9.1	2227	5.7
14	5.7	1252	6.9	1112	5.9
15	5.5	1642	7.9	0837	7.4
16	5.8	1317	7.4	0847	5.9
17	11	2357	54	0127	5.7
18	76	2357	111	0002	54
19	121	2232	158	0732	102
20	126	0027	158	2322	106
21	108	1937	121	0802	95
22	92	0022	113	2342	75
23	61	0002	76	2357	45
24	45	1257	69	2327	32
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
TOTAL	766		- - -		- - -
AVERAGE	32		42		26
MAXIMUM	126		158		106
MINIMUM	5.5		6.5		5.5
ACRE FT	1519		- - -		- - -

Middle Fork Tamayariak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, UPPER WEST FORK

LOCATION.--Lat 69°49'58", long 145°55'15", in the center W½W½ sec 33, T.6N., R.25E., 13.9 miles upstream from the confluence with the Tamayariak River, 61.1 miles west-southwest of Kaktovik, Alaska.

DRAINAGE AREA.--49.2 mi², of which 5.6 mi² are located within the Arctic National Wildlife Refuge Wilderness Area.

PERIOD OF RECORD.--July to Sept. 1988; June to Sept. 1989; June to Sept. 1990; June to Sept. 1991.

REMARKS.--This is a 4th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREMES FOR PERIOD OF RECORD.--Maximum Discharge, 1,478 cfs Aug. 20, 1989 @ 1975 hr; Minimum Discharge, 0.0 cfs July 9-10, & 13, 1989, July 16-21, 1990, July 31 to August 19, 1990.

JUNE 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	- - -		- - -		- - -
5	- - -		- - -		- - -
6	- - -		- - -		- - -
7	- - -		- - -		- - -
8	- - -		- - -		- - -
9	- - -		- - -		- - -
10	- - -		- - -		- - -
11	- - -		- - -		- - -
12	- - -		- - -		- - -
13	- - -		- - -		- - -
14	- - -		- - -		- - -
15	- - -		- - -		- - -
16	- - -		- - -		- - -
17	- - -		- - -		- - -
18	- - -		- - -		- - -
19	- - -		- - -		- - -
20	350	1922	486	1117	225
21	302	0017	417	1152	238
22	203	0002	333	1412	160
23	151	1922	188	1212	116
24	116	0002	166	1347	96
25	96	0002	116	1142	81
26	100	2247	116	1002	89
27	98	2147	125	1302	79
28	98	0002	121	1042	81
29	102	1827	135	0827	79
30	82	0002	112	2352	68
TOTAL	1697		- - -		- - -
AVERAGE	154		211		119
MAXIMUM	350		486		238
MINIMUM	82		112		68
ACRE FT	3367		- - -		- - -

ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, UPPER WEST FORK

JULY 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	57	0002	68	1317	53
2	46	0002	55	1422	42
3	38	0017	46	1442	35
4	32	0002	39	1637	28
5	30	2352	39	1147	26
6	38	2242	51	1137	31
7	36	0012	50	2357	30
8	24	0002	30	2357	20
9	17	0032	20	1522	15
10	13	0747	16	2352	11
11	9.1	0002	11	1227	7.3
12	13	2357	21	1332	11
13	17	0247	21	1627	15
14	21	2302	33	1047	15
15	34	2122	49	0912	26
16	39	1952	56	1107	33
17	35	0002	46	1102	31
18	44	2347	54	0002	36
19	63	1802	75	0137	52
20	71	1752	75	2352	64
21	373	1812	947	0117	77
22	654	2332	1219	1507	430
23	681	0052	1172	2347	365
24	240	0002	365	2357	160
25	117	0002	160	2352	89
26	74	0002	89	2357	62
27	63	2212	66	0312	59
28	60	0012	65	2357	56
29	49	0012	56	2357	46
30	42	0007	46	1152	40
31	41	0012	45	2357	39
TOTAL	3071		- - -		- - -
AVERAGE	99		164		65
MAXIMUM	681		1219		430
MINIMUM	9.1		11		7.3
ACRE FT	6091		- - -		- - -

ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, UPPER WEST FORK

AUGUST 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	33	0012	39	2357	31
2	29	0002	31	1012	28
3	24	0002	28	2357	22
4	21	0002	22	2357	20
5	20 e	- - -	- - -	- - -	- - -
6	16	0042	19	1032	14
7	14	0022	16	2357	13
8	12	2237	14	1412	11
9	15	1952	16	0047	13
10	13	0007	16	2352	11
11	9.9	0002	11	2357	8.9
12	8.0	0002	8.9	1142	7.5
13	6.7	0002	7.5	1232	6.0
14	6.7	2017	7.5	0917	6.0
15	8.9	2352	11	0452	7.1
16	15	1802	18	0002	11
17	16	0012	17	2332	15
18	13	0007	15	2347	11
19	10	0002	11	2357	8.4
20	7.5	0002	8.4	2357	6.7
21	6.3	0002	6.7	1142	6.0
22	18	2357	104	0212	5.6
23	202	2112	262	0002	104
24	186	0002	249	2357	150
25	111	0002	153	2357	89
26	72	0002	91	2142	60
27	57	0252	65	1957	52
28	65	1027	66	0002	56
29	68	1052	69	2357	62
30	52	0002	63	2357	45
31	38	0012	45	2352	31
TOTAL	1171		- - -		- - -
AVERAGE	38		50		30
MAXIMUM	202		262		150
MINIMUM	6.3		6.7		5.6
ACRE FT	2323		- - -		- - -

NOTE: e = Estimated

ARCTIC NATIONAL WILDLIFE REFUGE

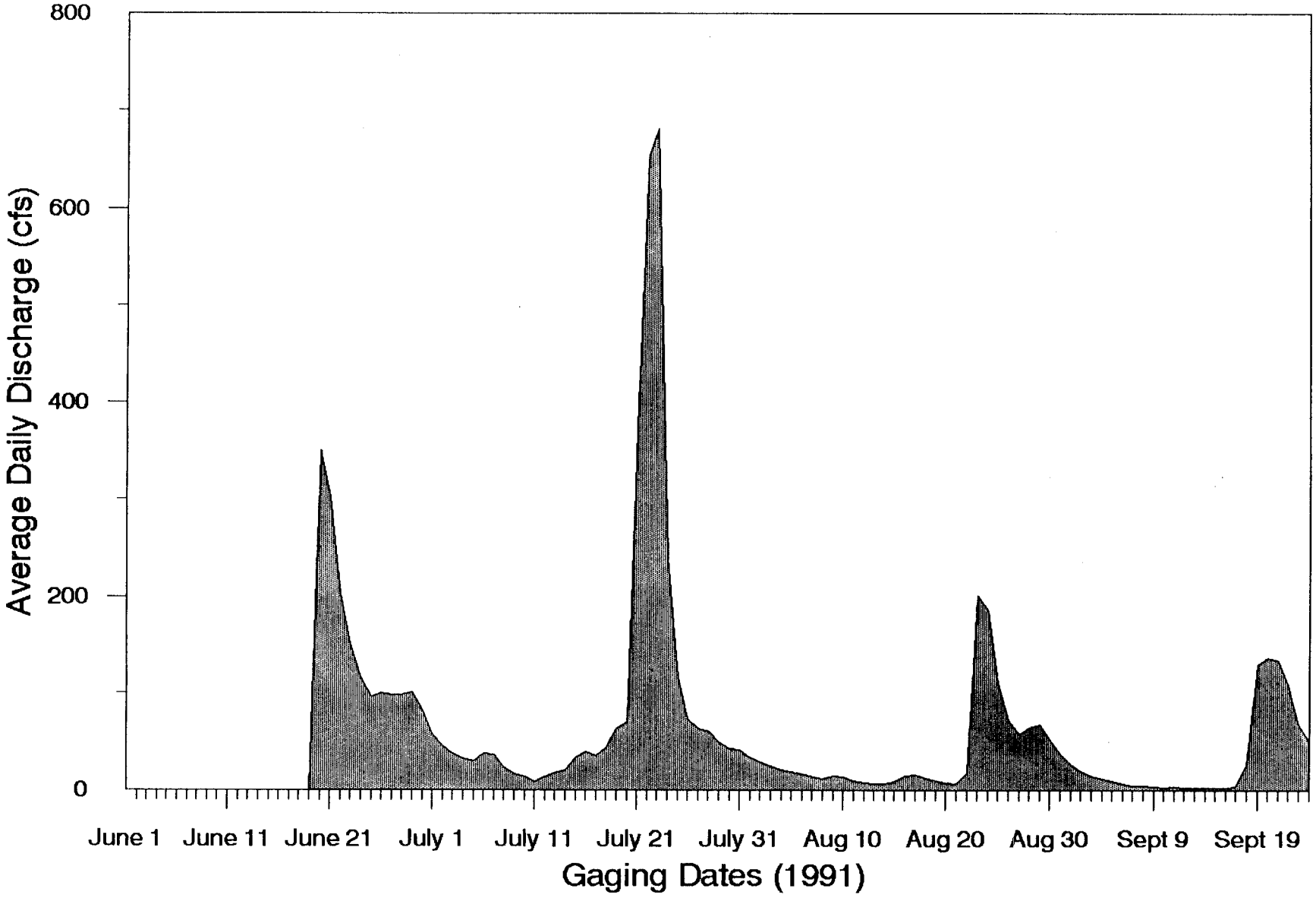
TAMAYARIAK RIVER, UPPER WEST FORK

SEPTEMBER 1991

DATE	AVE.DAILY DISCH. CU.FT/SEC	TIME OF MAX DISCH.	MAX DISCH. CU FT/SEC	TIME OF MIN DISCH.	MIN DISCH. CU. FT/SEC
1	27	0017	31	2352	22
2	19	0017	22	2357	16
3	14	0007	16	2352	13
4	11	0012	13	2342	10
5	9.4	0052	11	2332	8.0
6	7.1	0037	8.4	1157	5.6
7	4.6	0007	6.0	0752	3.6
8	4.4	2357	6.3	0842	2.7
9	4.1	0102	6.7	0827	2.7
10	2.7	1417	6.0	0742	1.8
11	3.6	0802	6.3	1427	2.3
12	2.6	1822	5.6	1042	1.8
13	2.3	1607	3.3	0442	2.0
14	3.1	1537	5.6	0027	2.1
15	2.3	1512	3.8	2357	1.7
16	2.3	1352	3.8	0007	1.7
17	3.3	2357	6.0	0817	2.4
18	27	2352	91	0002	6.0
19	130	2017	180	0017	89
20	137	0012	173	2352	119
21	134	1647	143	0227	117
22	109	0007	137	2327	89
23	68	0022	89	2352	46
24	51	1932	82	1407	35
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
TOTAL	779		- - -		- - -
AVERAGE	32		44		25
MAXIMUM	137		180		119
MINIMUM	2.3		3.3		1.7
ACRE FT	1545		- - -		- - -

Upper West Fork Tamayariak River

1991



Appendix B

Surface Water Temperature Records

ARCTIC NATIONAL WILDLIFE REFUGE

Akutoktak River

LOCATION.--Lat 60°49'58", long 143°46'50", in center sec. 36, T.6N., R.33E., 0.6 miles upstream from the confluence with the Okpilak River, 20.8 miles south-southwest of Kaktovik, Alaska.

DRAINAGE AREA.--97.1 mi², of which 66.0 mi² is located within the Arctic National Wildlife Refuge Wildernes Area.

PERIOD OF RECORD.--July to Sept. 1988; June to Sept. 1989; June to Sept. 1990; June to Sept. 1991.

REMARKS.--This is a 4th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREME FOR PERIOD OF RECORD.--Maximum Temperature, 20.4°C July 4, 1990.

JUNE 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	0.2	1538	0.8	0413	-0.2
5	0.3	1638	1.2	0228	-0.2
6	0.6	1558	1.9	0213	-0.2
7	0.4	1613	1.4	0023	-0.2
8	0.9	1803	2.6	0028	-0.2
9	0.8	1538	2.5	0428	-0.2
10	0.9	1708	3.0	0123	-0.2
11	2.2	1728	5.0	0458	0.0
12	3.3	1608	6.2	0543	1.0
13	2.0	1753	3.1	0533	0.9
14	1.8	1658	2.6	0708	1.1
15	2.3	1753	3.6	0618	1.2
16	2.7	1733	4.1	0643	1.5
17	4.4	1903	7.8	0543	1.5
18	7.2	1733	9.5	0553	4.8
19	8.7	1808	11.9	0603	5.5
20	9.6	2013	12.1	0828	7.1
21	11.5	1818	15.3	0618	8.2
22	9.6	1728	12.1	0848	7.4
23	9.3	1648	13.2	0603	5.5
24	7.8	1658	10.1	0858	5.9
25	6.5	1858	8.8	0613	4.4
26	6.0	1948	8.3	0943	4.5
27	9.0	1748	12.6	0558	5.7
28	12.1	1843	16.2	0518	8.1
29	14.3	1733	17.3	0543	11.3
30	10.4	0003	14.4	2358	8.3
AVERAGE	5.6		8.0		3.6
MAXIMUM	14.3		17.3		11.3
MINIMUM	0.3		1.2		-0.2

ARCTIC NATIONAL WILDLIFE REFUGE

Akutoktak River

JULY 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	9.8	1858	13.1	0603	6.9
2	10.9	1753	13.9	0713	8.2
3	10.8	1748	14.0	0628	7.8
4	8.6	0003	10.8	2358	7.4
5	8.6	1738	11.9	0553	5.6
6	10.2	1753	13.8	0633	6.9
7	8.2	0003	10.9	2358	6.0
8	6.8	1818	9.6	0618	5.0
9	6.6	1848	8.5	0928	5.1
10	5.5	0003	6.5	0623	4.2
11	6.2	1748	9.0	0748	4.1
12	7.1	1728	10.3	0638	4.2
13	7.4	1923	10.0	0538	5.0
14	9.7	1838	13.5	0553	6.4
15	11.5	1523	13.9	0548	9.0
16	11.9	1623	15.0	0538	9.0
17	11.4	1838	12.8	0618	10.0
18	10.8	1743	12.7	0918	9.4
19	12.0	1618	15.5	0553	8.9
20	12.1	1728	15.1	0758	9.4
21	11.3	0003	12.4	1213	10.7
22	9.5	0003	11.3	2358	8.1
23	7.9	1653	8.7	0628	7.1
24	9.7	1758	12.8	0503	6.8
25	10.2	1758	12.6	0733	8.1
26	9.8	1758	12.8	0703	7.1
27	8.9	0003	10.0	0618	8.2
28	8.7	1838	11.1	0703	6.9
29	9.4	1748	12.6	0643	7.1
30	9.0	0003	10.1	0718	8.0
31	8.5	1708	9.8	0723	7.3
AVERAGE	9.3		11.8		7.2
MAXIMUM	12.1		15.5		10.7
MINIMUM	5.5		6.5		4.1

ARCTIC NATIONAL WILDLIFE REFUGE

Akutoktak River

AUGUST 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	9.0	1743	11.3	0638	7.1
2 *	9.8	1738	12.6	0733	7.9
3	8.0	0003	9.6	2358	7.0
4	6.4	1803	7.1	0933	5.6
5	7.9	1443	10.6	0613	5.3
6	7.4	0013	9.3	0743	5.1
7	6.9	1828	8.5	0538	5.3
8	6.2	0003	7.4	2358	4.9
9	5.8	1838	8.8	0633	3.2
10	6.7	1808	8.7	0703	4.5
11	5.6	0003	6.8	0908	4.6
12	6.1	1758	8.5	0623	4.1
13	6.7	1933	9.2	0538	4.8
14	8.4	1833	11.5	0643	5.7
15	8.0	0003	9.8	0848	7.3
16	8.2	1603	10.7	0653	6.4
17	7.4	1723	9.5	0738	5.8
18	5.6	1633	7.2	0813	4.2
19	5.7	1743	8.4	0713	3.1
20	6.2	1753	8.6	0813	4.3
21	6.7	1703	9.4	0643	4.2
22	6.3	0003	7.6	2358	4.5
23	3.4	0003	4.5	2358	2.4
24	2.7	1838	4.0	0648	1.5
25	3.5	1738	6.0	0648	1.3
26	4.2	1753	6.6	0733	2.6
27	3.8	1753	6.3	0803	1.4
28	4.8	1743	7.6	0753	2.3
29	5.2	1728	8.2	0728	2.5
30	5.1	1728	7.7	0703	2.5
31	5.6	1753	8.3	0703	3.1
AVERAGE	6.2		8.4		4.3
MAXIMUM	9.8		12.6		7.9
MINIMUM	2.7		4.0		1.3

ARCTIC NATIONAL WILDLIFE REFUGE

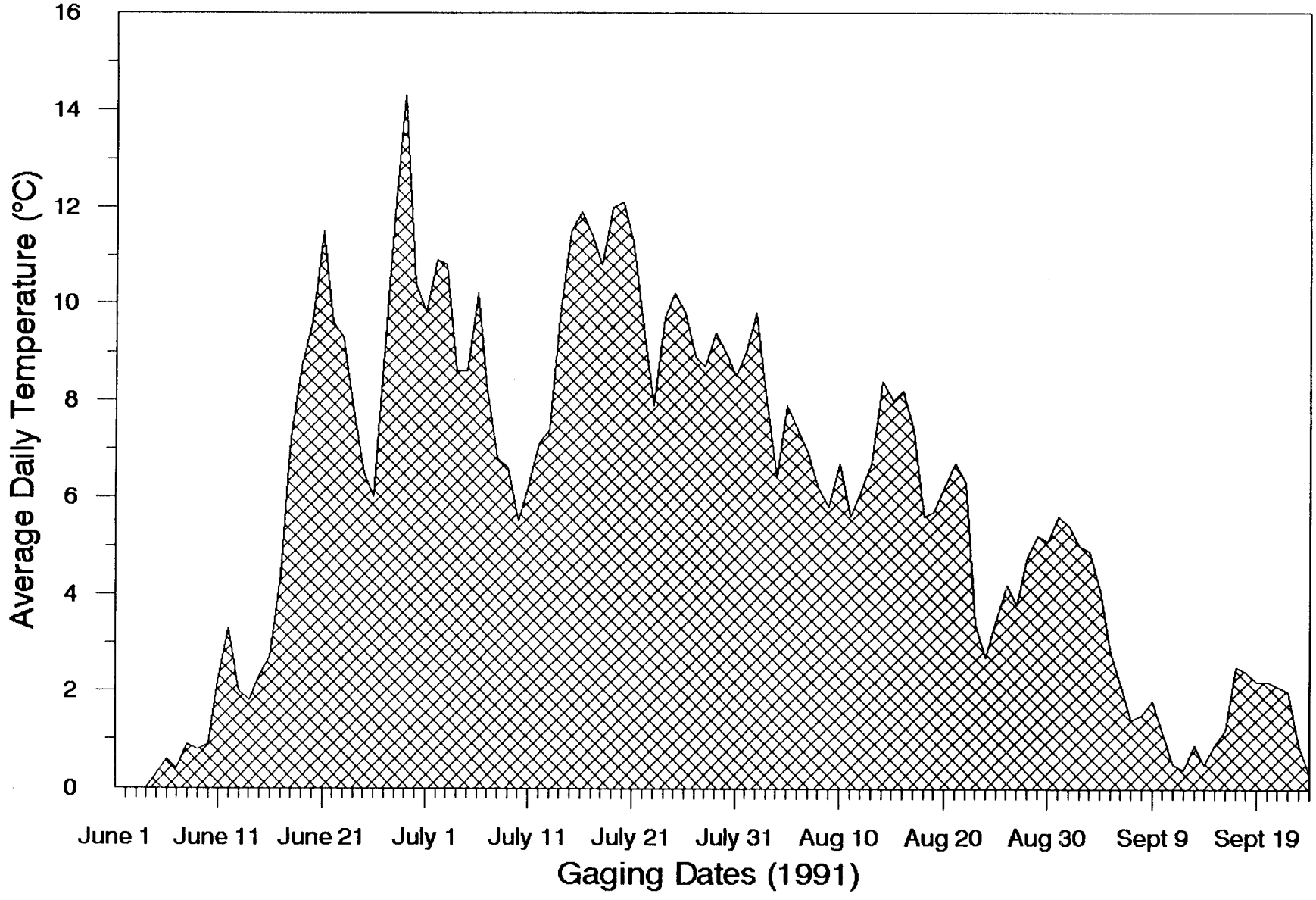
Akutoktak River

SEPTEMBER 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	5.4	1838	6.4	0658	4.5
2	5.0	1743	7.7	0818	2.9
3	4.9	1728	7.2	0723	2.8
4	4.1	0003	5.1	2358	3.1
5	2.8	1558	4.4	0738	1.8
6	2.1	1658	3.6	0748	1.1
7	1.4	1323	1.9	0753	0.9
8	1.5	1743	3.0	0503	0.5
9	1.8	1733	3.4	0848	0.8
10	1.1	1558	2.2	0633	0.0
11	0.5	1418	1.3	2303	-0.2
12	0.4	1723	1.1	0003	-0.2
13	0.9	1623	2.4	0548	-0.1
14	0.5	1613	1.4	0543	-0.2
15	0.9	1723	2.3	0423	-0.2
16	1.2	1658	2.5	0813	0.0
17	2.5	1603	4.7	0758	1.1
18	2.4	1838	4.1	0803	1.1
19	2.2	1833	3.2	0733	1.2
20	2.2	0003	2.8	2358	1.8
21	2.1	1738	3.0	0828	1.4
22	2.0	0003	2.5	2358	1.5
23	0.9	1538	2.0	0853	-0.2
24	0.3	1718	1.1	0413	-0.2
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
AVERAGE	2.0		3.3		1.0
MAXIMUM	5.4		7.7		4.5
MINIMUM	0.3		1.1		-0.2

Akutoktak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

Itkilyariak Creek, West Fork

LOCATION.--Lat 69°50′19", long 144°24′43", NE¼NW¼NW¼ sec. 33, T.6N., R.31E., 0.6 miles upstream from the confluence with the Itkilyariak Creek, 20.75 miles south-southwest of Kaktovik, Alaska.

DRAINAGE AREA.--26.9 mi^2, of which 8.7 mi^2 is located within the Arctic National Wildlife Refuge Wilderness Area.

PERIOD OF RECORD.--June to Sept. 1989; June to Sept. 1990; June to Sept. 1991.

REMARKS.--This is a 3rd Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREME FOR PERIOD OF RECORD.--Maximum Temperature, 17.7°C Aug. 8, 1989.

JUNE 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	- - -		- - -		- - -
5	- - -		- - -		- - -
6	- - -		- - -		- - -
7	0.3	1530	0.9	0515	0.0
8	0.8	1500	2.1	0855	0.0
9	0.8	1610	2.2	0300	0.0
10	0.9	1605	2.7	0450	0.1
11	1.7	1520	4.4	0130	0.1
12	2.3	1420	4.0	0220	0.6
13	2.0	1350	2.9	0500	1.1
14	1.3	1450	1.9	0610	0.8
15	1.8	1510	3.0	0415	1.0
16	1.9	1455	3.2	0625	0.9
17	3.4	1305	11.7	0455	0.6
18	4.2	1345	6.3	0355	2.1
19	5.3	1630	9.0	0440	1.9
20	6.0	1435	9.2	0410	2.9
21	6.9	1720	11.3	0445	3.1
22	5.2	1810	8.8	0655	2.3
23	6.1	1610	10.6	0500	2.3
24	5.1	1730	8.4	0725	2.5
25	5.0	1850	7.6	0605	2.7
26	4.7	1740	6.1	0915	3.5
27	7.6	1735	11.9	0510	3.5
28	10.4	1800	14.4	0530	6.2
29	12.3	1625	15.3	0535	9.1
30	8.8	2400	12.0	2355	6.7
AVERAGE	4.4		7.1		2.3
MINIMUM	12.3		15.3		9.1
MINIMUM	0.3		0.9		0.0

ARCTIC NATIONAL WILDLIFE REFUGE

Itkilyariak Creek, West Fork

JULY 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	8.0	1840	10.5	0545	5.7
2	9.2	1730	12.0	0625	6.8
3	9.3	1710	12.0	0555	6.6
4	7.8	2400	9.2	0635	6.8
5	7.9	1725	10.6	0610	5.0
6	9.4	1730	12.1	0615	6.8
7	7.9	2400	9.8	2355	6.2
8	6.4	1725	8.1	0605	5.3
9	6.3	1655	8.0	0840	5.1
10	5.5	1550	6.4	0605	4.4
11	6.0	1720	8.1	0640	4.4
12	6.9	1700	9.7	0615	4.2
13	7.0	1840	8.9	0510	5.3
14	8.3	1825	10.4	0500	6.0
15	9.5	1325	11.0	0610	7.9
16	10.5	1445	13.4	0520	7.7
17	10.8	1815	12.4	0545	9.4
18	10.5	1640	12.3	0815	9.1
19	11.4	1550	14.3	0610	8.7
20	11.2	1740	13.8	0705	8.9
21	10.8	1720	11.5	0545	10.2
22	- - -		- - -		- - -
23	- - -		- - -		- - -
24	- - -		- - -		- - -
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
31	- - -		- - -		- - -
AVERAGE	8.6		10.7		6.7
MAXIMUM	11.4		14.3		10.2
MINIMUM	5.5		6.4		4.2

ARCTIC NATIONAL WILDLIFE REFUGE

Itkilyariak Creek, West Fork

AUGUST 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	7.4	1632	7.9	0847	6.8
5	8.5	1347	10.7	0557	6.6
6	8.4	1652	9.9	0742	6.7
7	7.5	1527	8.6	0357	6.4
8	7.0	1742	7.4	2357	6.3
9	6.9	1722	8.8	0607	5.3
10	6.9	1847	8.8	0512	5.3
11	6.5	1717	7.6	0722	5.6
12	7.1	1652	9.2	0617	5.3
13	7.8	1807	10.2	0542	6.1
14	8.7	1717	11.1	0652	6.6
15	8.2	0002	9.1	2357	7.6
16	8.2	1602	10.1	0547	7.0
17	7.7	1652	9.3	0732	6.3
18	6.5	1622	8.1	0802	5.3
19	6.4	1652	8.4	0652	4.4
20	6.7	1722	8.6	0737	5.3
21	6.9	1622	8.9	0617	5.1
22	6.9	0617	7.6	2357	5.6
23	3.9	0002	5.6	2357	2.8
24	3.0	1847	4.2	0617	2.0
25	3.8	1737	5.9	0717	2.1
26	4.6	1707	6.6	0732	3.1
27	4.3	1727	6.6	0737	2.2
28	4.9	1717	7.5	0737	2.8
29	5.4	1712	8.0	0707	3.3
30	5.4	1642	7.6	0652	3.5
31	5.9	1722	8.4	0707	3.8
AVERAGE	6.5		8.2		5.0
MAXIMUM	8.7		11.1		7.6
MINIMUM	3.0		4.2		2.0

ARCTIC NATIONAL WILDLIFE REFUGE

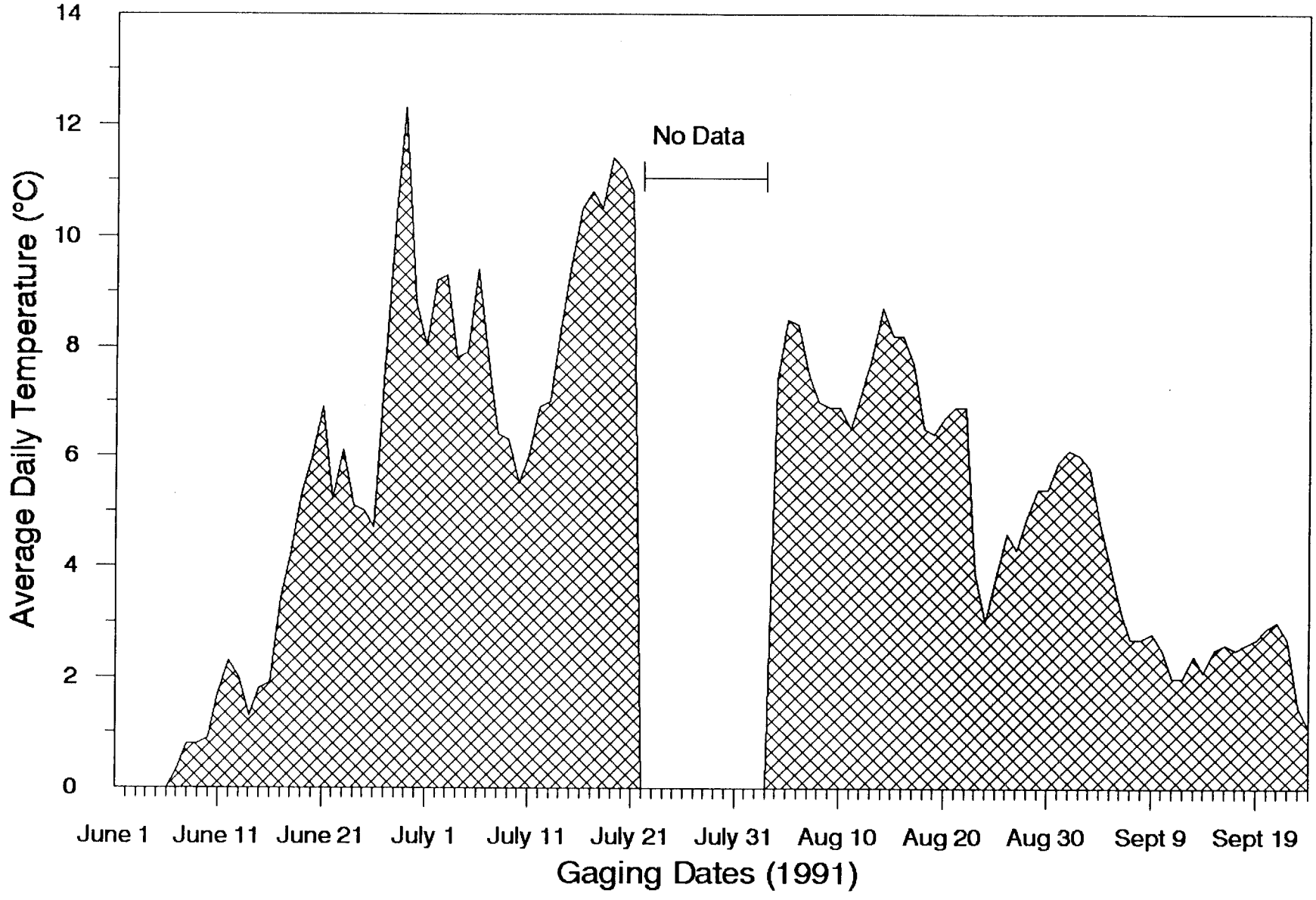
Itkilyariak Creek, West Fork

SEPTEMBER 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	6.1	1347	7.1	0332	5.1
2	6.0	1722	8.4	0802	4.2
3	5.8	1707	8.0	0747	3.9
4	4.8	0002	5.6	2357	4.1
5	4.0	1517	5.3	2357	3.2
6	3.2	1607	4.8	0717	2.3
7	2.7	1437	3.3	0727	2.2
8	2.7	1652	3.8	0632	1.8
9	2.8	1652	4.1	0842	2.1
10	2.5	1627	3.5	0452	1.5
11	2.0	1252	2.9	2237	1.3
12	2.0	1602	2.9	0002	1.3
13	2.4	1622	3.7	0547	1.5
14	2.1	1602	3.0	0402	1.4
15	2.5	1632	3.7	0637	1.6
16	2.6	1612	3.7	0742	1.6
17	2.5	1642	4.1	0722	1.1
18	2.6	1722	4.2	0817	1.6
19	2.7	1717	4.0	0547	1.5
20	2.9	0002	3.3	2357	2.6
21	3.0	1757	3.9	0727	2.3
22	2.7	0002	3.2	2357	2.0
23	1.5	1447	2.5	0702	0.8
24	1.1	1637	1.6	0102	0.9
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
AVERAGE	3.1		4.2		2.2
MAXIMUM	6.1		8.4		5.1
MINIMUM	1.1		1.6		0.8

West Fork Itkilyariak Creek

1991



Niguanak River

LOCATION.-Lat 70°0'35", Long 143°1'54", NW¼NE¼ sec. 36, T.8N., R.36E., 6 miles upstream from the mouth, 16.5 miles south-east of Kaktovik, Alaska.

DRAINAGE AREA.-136.2 mi².

PERIOD OF RECORD.--June to Sept. 1989; June to Sept. 1991.

REMARKS.-This is a 5th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREME FOR PERIOD OF RECORD.-Maximum temperature; 23.1°C Aug. 9, 1989.

JUNE 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	- - -		- - -		- - -
5	- - -		- - -		- - -
6	- - -		- - -		- - -
7	- - -		- - -		- - -
8	- - -		- - -		- - -
9	- - -		- - -		- - -
10	- - -		- - -		- - -
11	- - -		- - -		- - -
12	- - -		- - -		- - -
13	1.4	1534	2.8	0459	0.3
14	1.0	1619	2.0	0554	0.2
15	1.1	1739	2.6	0514	0.2
16	1.6	1749	3.3	0544	0.3
17	2.2	1854	4.4	0559	0.3
18	3.5	1629	5.8	0444	1.2
19	4.1	1814	7.4	0539	0.8
20	5.0	1729	7.2	0619	2.3
21	5.8	1744	9.5	0634	2.6
22	4.8	1734	7.0	0844	2.5
23	5.2	1814	8.8	0659	2.2
24	5.1	1714	7.0	0754	3.2
25	4.2	1849	7.0	0744	2.1
26	3.3	0004	4.8	1159	2.6
27	5.7	1804	9.7	0614	2.3
28	8.2	1924	12.4	0649	4.4
29	10.4	1724	13.3	0649	7.6
30	6.4	0004	10.0	1054	4.7
AVERAGE	4.4		6.9		2.2
MAXIMUM	10.4		13.3		7.6
MINIMUM	1.0		2.0		0.2

ARCTIC NATIONAL WILDLIFE REFUGE

Niguanak River

JULY 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	5.3	1904	7.5	0709	3.4
2	7.7	1834	11.1	0649	4.8
3	8.3	1934	11.3	0659	5.5
4	6.9	0004	9.1	0904	5.3
5	6.0	1824	8.3	0644	3.8
6	7.9	1849	12.1	0659	4.5
7	6.5	0004	9.8	2359	4.3
8	4.9	1919	8.2	0824	2.7
9	5.8	1854	8.3	0954	3.8
10	4.3	0004	6.3	0814	3.3
11	6.2	1859	10.0	0649	3.0
12	6.8	1729	9.3	0729	4.3
13	7.4	1959	10.9	0639	4.6
14	10.4	1944	15.0	0824	6.7
15	11.4	1644	13.7	0814	9.0
16	11.3	1734	14.5	0639	8.2
17	9.7	1904	11.2	0659	8.0
18	8.8	1754	10.1	1009	7.2
19	9.6	1809	13.9	0614	6.5
20	10.8	1909	13.9	0759	7.6
21	9.5	0004	11.9	2359	8.7
22	6.9	0004	8.7	2359	5.6
23	7.2	1904	10.4	0514	4.7
24	8.4	1854	11.3	0739	5.3
25	7.9	0004	9.6	0914	6.8
26	7.2	1734	8.8	0659	5.3
27	7.2	1704	8.7	0724	5.5
28	7.8	1849	10.4	0649	5.7
29	7.7	1854	9.3	0759	6.3
30	7.3	1624	8.8	0809	6.0
31	7.7	1819	9.9	0639	5.7
AVERAGE	7.8		10.4		5.6
MAXIMUM	11.4		15.0		9.0
MINIMUM	4.3		6.3		2.7

ARCTIC NATIONAL WILDLIFE REFUGE

Niguanak River

AUGUST 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	8.3	1919	10.6	0729	6.4
2	9.0	1834	10.9	0714	7.6
3	7.5	0004	9.3	0944	6.7
4	6.0	0004	7.0	1004	4.9
5	7.8	2004	10.6	0634	5.1
6	7.2	0004	10.2	0854	5.1
7	6.4	1949	8.0	0704	5.0
8	6.1	0004	7.5	2359	5.0
9	5.5	1909	7.9	0859	3.4
10	5.8	0004	6.8	0754	4.6
11	4.6	0004	5.8	0919	3.8
12	4.8	1824	6.6	0804	3.4
13	6.4	2019	8.8	0649	4.6
14	8.6	1934	11.6	0804	5.9
15	8.5	0004	11.2	2359	7.8
16	8.6	1929	11.2	0734	6.4
17	8.0	1814	9.9	0829	5.8
18	5.8	0004	8.3	1009	4.5
19	5.0	1709	6.9	0754	2.7
20	5.8	1754	7.5	0924	4.4
21	5.9	1734	7.8	0739	4.2
22	6.2	0604	7.5	2359	4.1
23	2.7	0004	4.1	1019	2.0
24	2.0	1859	3.1	0809	0.8
25	3.2	1714	5.4	0749	1.3
26	4.0	1824	5.7	0859	2.5
27	3.4	1819	5.3	0854	1.5
28	3.7	1934	5.9	0759	1.7
29	4.7	1829	6.8	0819	2.3
30	4.5	1739	6.1	0824	2.5
31	5.0	1819	7.1	0809	2.9
AVERAGE	5.8		7.8		4.2
MAXIMUM	9.0		11.6		7.8
MINIMUM	2.0		3.1		0.8

ARCTIC NATIONAL WILDLIFE REFUGE

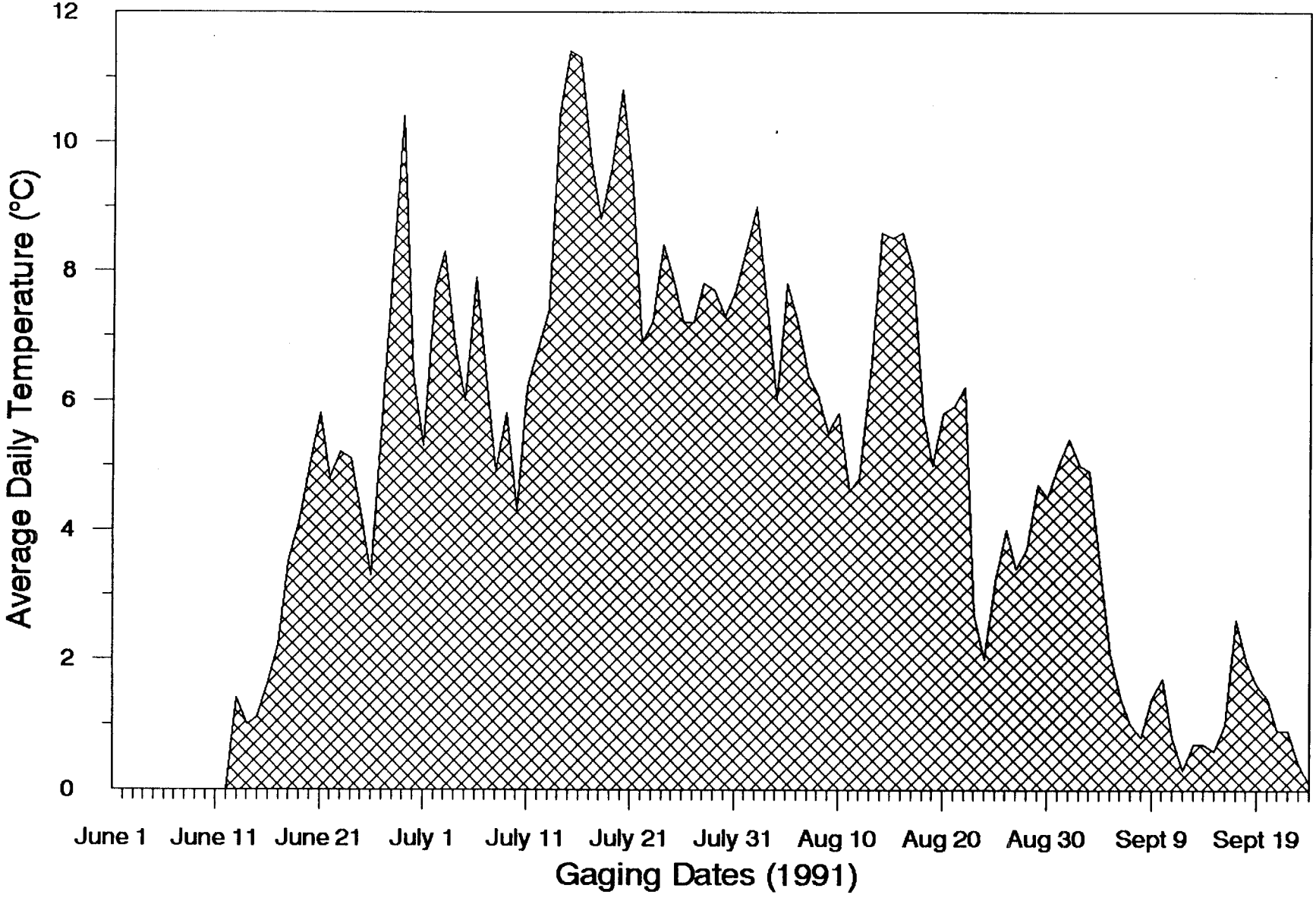
Niguanak River

SEPTEMBER 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	5.4	1804	6.1	0914	4.7
2	5.0	1734	6.8	0849	3.6
3	4.9	1754	6.3	0759	3.8
4	3.5	0004	4.6	2359	2.3
5	2.1	1559	3.6	0729	1.0
6	1.4	1734	3.1	0829	0.1
7	1.0	0004	1.6	2359	0.0
8	0.8	1804	2.2	0109	-0.1
9	1.4	1854	2.6	0759	0.3
10	1.7	1714	3.0	0709	0.7
11	0.8	0004	1.5	0844	0.1
12	0.3	1729	0.8	0254	-0.1
13	0.7	1704	1.7	0644	-0.1
14	0.7	1554	1.2	2359	0.2
15	0.6	1749	1.7	0344	-0.2
16	1.0	1729	2.0	0659	-0.1
17	2.6	1949	4.3	0844	1.2
18	2.0	0004	3.2	0919	0.7
19	1.6	0004	2.5	0814	0.1
20	1.4	0004	2.1	2359	0.9
21	0.9	1829	1.7	1044	0.4
22	0.9	1659	1.6	1009	0.2
23	0.4	1644	1.2	0514	-0.2
24	0.1	1759	0.7	0259	-0.1
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
AVERAGE	1.7		2.8		0.8
MAXIMUM	5.4		6.8		4.7
MINIMUM	0.1		0.7		-0.2

Niguanak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

Sadlerochit River

LOCATION.--Lat 69°38′, long 144° 22′50″, in NW¼SW¼ sec. 31, T.4N., R.32E., 0.5 miles below the Wilderness boundary, 37.5 miles southwest of Kaktovik, Alaska.

DRAINAGE AREA.--520.1 mi², of which 517.5 mi² is located within the Arctic National Wildlife Refuge Wilderness Area. Glaciers account for 2.3 percent of the drainage area or about 11.8 mi² depending on existing climatic conditions.

PERIOD OF RECORD.-- July to Sept. 1988; June to Sept. 1989; June to Sept. 1990; June to Sept. 1991.

REMARKS.--This is a 6th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREME FOR PERIOD OF RECORD.--Maximum Temperature, 15.9°C August 13, 1989 and July 6, 1990.

JUNE 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	5.0	1843	8.2	0703	2.1
5	3.8	2003	6.0	0758	1.8
6	3.8	1843	5.5	0703	1.9
7	3.1	2023	4.6	0753	1.5
8	3.3	1953	4.7	0808	1.7
9	3.1	0003	4.4	2358	1.9
10	2.2	1723	3.8	0638	0.4
11	3.0	1653	4.9	0608	1.4
12	5.1	1758	7.4	0443	2.7
13	6.5	1728	7.8	0708	5.0
14	5.0	0003	6.1	0833	4.3
15	4.5	2033	5.8	0823	3.2
16	4.0	0003	5.3	0828	2.9
17	6.8	1918	11.0	0608	3.1
18	8.4	1718	10.8	0743	6.2
19	7.4	1943	10.7	0638	4.2
20	7.6	1853	10.8	0658	5.1
21	8.3	1953	12.0	0628	5.2
22	7.2	0003	9.5	0833	4.6
23	8.5	1818	12.3	0633	5.3
24	6.7	1813	8.5	0738	4.6
25	7.1	1853	9.8	0658	4.6
26	6.9	0003	8.4	1008	5.7
27	8.1	1843	11.0	0613	5.4
28	9.5	1938	12.7	0638	6.4
29	10.5	1813	13.0	0648	7.8
30	7.5	0003	11.0	2358	5.9
AVERAGE	6.0		8.4		3.9
MAXIMUM	10.5		13.0		7.8
MINIMUM	2.2		3.8		0.4

ARCTIC NATIONAL WILDLIFE REFUGE

Sadlerochit River

JULY 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	7.1	1803	9.8	0658	5.1
2	7.9	1838	10.2	0718	5.8
3	7.9	1843	10.4	0638	5.3
4	7.1	1908	8.6	0823	5.3
5	7.9	1913	11.0	0623	5.1
6	9.9	1838	13.3	0638	6.7
7	8.5	0003	11.4	2358	6.6
8	6.3	1738	8.1	0943	4.8
9	5.5	0003	7.0	1133	4.6
10	4.5	1848	5.3	0738	3.3
11	4.8	1853	6.3	0808	3.7
12	6.8	1833	9.8	0618	3.5
13	7.8	1843	9.9	0733	5.9
14	10.0	2038	12.3	0628	7.8
15	10.6	1528	11.9	0723	9.0
16	10.5	1738	12.9	0633	8.0
17	10.4	2028	11.5	1043	9.7
18	10.3	1648	11.2	1048	9.2
19	9.3	1848	11.4	0728	7.0
20	9.6	1948	11.9	0813	7.4
21	8.5	0003	10.8	2108	6.9
22	8.2	1653	9.0	0003	7.4
23	6.7	1908	7.6	0718	5.7
24	8.3	1748	10.6	0643	6.3
25	8.4	1918	10.0	0758	6.6
26	9.2	1758	12.1	0738	6.7
27	7.9	0003	10.0	2358	6.9
28	8.5	1908	11.6	0558	6.2
29	9.5	1628	12.1	0718	7.2
30	8.4	0003	9.6	0903	7.5
31	9.2	1933	11.1	0618	7.6
AVERAGE	8.2		10.3		6.4
MAXIMUM	10.6		13.3		9.7
MINIMUM	4.5		5.3		3.3

ARCTIC NATIONAL WILDLIFE REFUGE

Sadlerochit River

AUGUST 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	9.8	1828	12.5	0828	7.3
2	9.6	1943	11.7	0808	7.9
3	8.3	0003	10.3	2358	7.3
4	6.3	2003	7.3	1003	5.4
5	7.7	1953	9.8	0748	5.4
6	7.5	0003	9.3	0918	6.2
7	6.3	1758	7.6	0723	4.9
8	6.2	1808	7.3	2358	5.2
9	5.6	1838	8.0	0748	3.6
10	6.3	1938	8.9	0738	3.9
11	7.0	1918	8.5	0923	5.7
12	8.3	1838	11.0	0743	6.2
13	9.1	2023	10.7	1043	8.0
14	9.1	1833	11.4	0748	7.0
15	8.6	0003	10.5	1148	8.1
16	8.5	1713	10.3	0718	6.9
17	7.1	0003	8.5	1028	6.1
18	6.1	1853	7.5	0858	4.5
19	5.9	1833	8.3	0758	3.5
20	6.6	1843	8.6	0808	4.8
21	7.0	1908	8.8	0648	5.2
22	7.2	1528	8.1	2358	4.5
23	3.1	0003	4.5	2358	2.4
24	2.2	1928	3.6	0828	1.0
25	2.5	1823	4.1	0748	1.0
26	3.4	1728	5.3	0838	1.5
27	4.0	1838	6.4	0753	1.7
28	5.0	1843	7.4	0808	2.6
29	5.4	1828	7.8	0803	2.9
30	5.5	1753	7.4	0818	3.3
31	6.0	1848	8.3	0728	3.7
AVERAGE	6.5		8.4		4.8
MAXIMUM	9.8		12.5		8.1
MINIMUM	2.2		3.6		1.0

ARCTIC NATIONAL WILDLIFE REFUGE

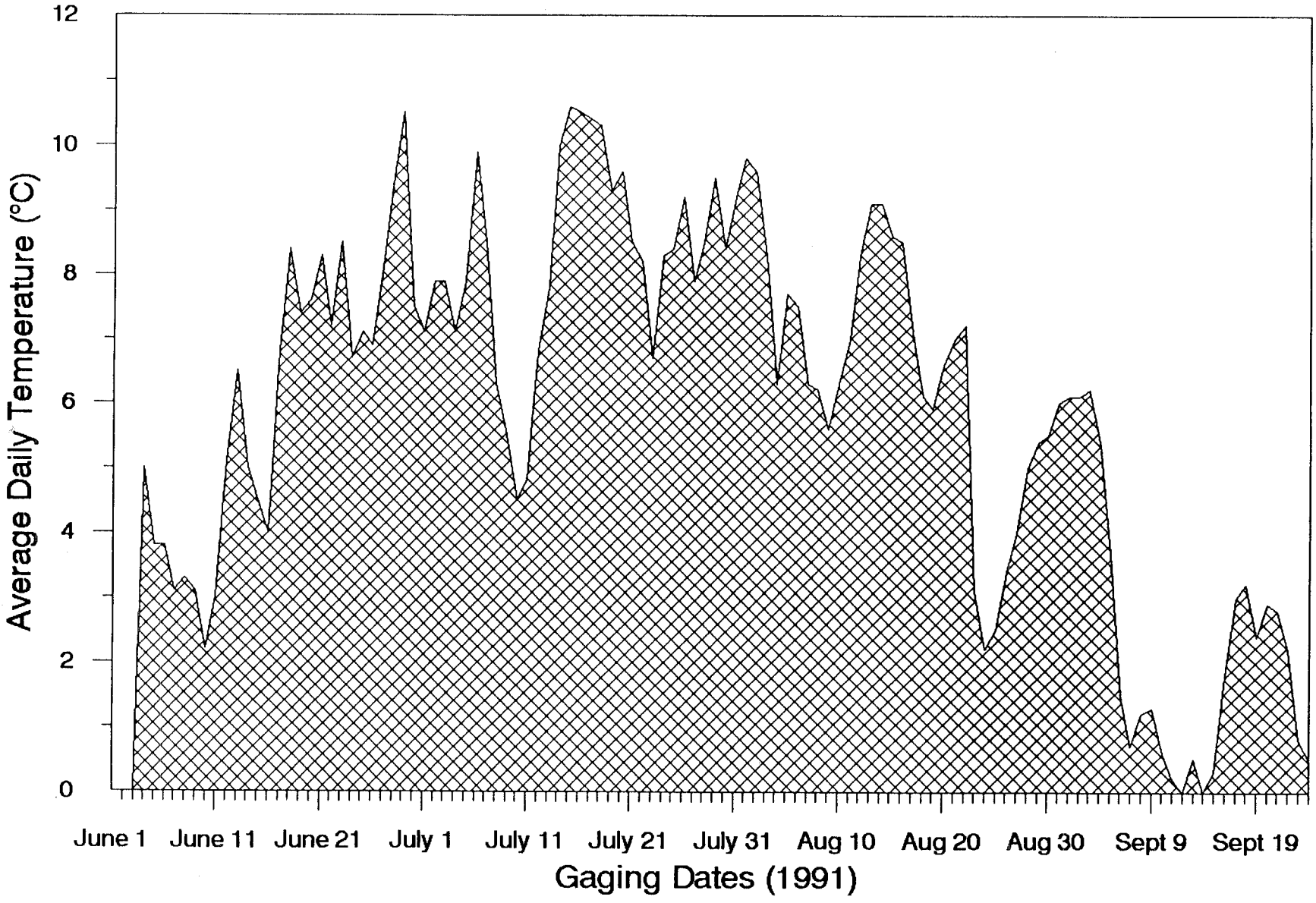
Sadlerochit River

SEPTEMBER 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	6.1	1923	7.0	0843	5.2
2	6.1	1843	8.4	0818	4.0
3	6.2	1813	8.3	0808	4.0
4	5.4	0003	6.6	0823	4.0
5	3.7	0003	5.0	2358	2.3
6	1.5	0003	2.3	2358	0.9
7	0.7	1848	1.8	0348	-0.2
8	1.2	1803	2.1	1048	0.4
9	1.3	1753	2.7	0838	0.2
10	0.6	1808	1.7	0343	-0.2
11	0.2	1628	0.8	0523	-0.1
12	0.0	1848	0.6	0028	-0.1
13	0.5	1648	2.1	2253	-0.2
14	0.0	1623	0.4	2058	-0.2
15	0.3	1923	1.2	0043	-0.1
16	1.8	2353	3.3	0758	0.4
17	3.0	1723	4.3	0823	1.7
18	3.2	1738	4.9	0643	2.1
19	2.4	1753	3.4	0743	1.1
20	2.9	1738	3.3	0858	2.4
21	2.8	1913	3.5	0858	2.1
22	2.2	0003	3.0	0958	1.3
23	0.8	0003	1.7	0718	-0.2
24	0.5	0003	1.0	0903	-0.2
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
AVERAGE	2.2		3.3		1.3
MAXIMUM	6.2		8.4		5.2
MINIMUM	0.0		0.4		-0.2

Sadlerochit River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

Sikrelurak River

LOCATION.--Lat 69°54'43", Long 142°30'52", SE¼SE¼ sec. 36, T.7N., R.38E., at confluence with the West Fork Sikrelurak River, 31 mi south-east of Katktovik, Alaska.

DRAINAGE AREA.-74.7 mi².

PERIOD OF RECORD.--June to Sept. 1989; June to Sept. 1990; June to Sept. 1991.

REMARKS.--This is a 4th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREME FOR PERIOD OF RECORD.--Maximum Temperature, 19.6°C July 1, 1990.

JUNE 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	0.4	1300	0.8	2400	0.1
5	0.4	1625	0.7	2340	0.2
6	0.4	1155	0.8	0355	0.1
7	0.4	1330	0.9	0125	0.2
8	0.5	1510	1.2	2305	0.2
9	0.4	1510	1.1	0020	0.2
10	0.6	1230	1.4	2400	0.2
11	0.9	1655	2.1	0025	0.2
12	1.1	1330	2.9	0025	0.1
13	0.7	1345	1.4	0105	0.1
14	0.4	1625	0.9	2355	0.2
15	0.5	1505	1.3	0210	0.2
16	0.7	1515	1.5	0315	0.1
17	1.0	1710	1.9	0350	0.1
18	2.6	1750	4.3	0235	0.5
19	5.4	1645	8.7	0525	2.1
20	7.2	1745	9.2	0500	4.4
21	7.4	1640	10.6	0455	4.9
22	4.9	1555	7.4	0640	2.9
23	4.7	1505	8.6	0445	1.9
24	4.0	1510	6.7	0545	2.2
25	3.6	1835	6.8	0515	1.4
26	2.3	2400	3.2	0900	1.6
27	5.2	1650	8.9	0435	2.0
28	7.4	1615	11.5	0445	3.2
29	8.6	1610	12.1	0415	5.2
30	5.4	1655	7.3	1055	3.9
AVERAGE	2.9		4.6		1.4
MAXIMUM	8.6		12.1		5.2
MINIMUM	0.4		0.7		0.1

ARCTIC NATIONAL WILDLIFE REFUGE

Sikrelurak River

JULY 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	5.1	1705	7.6	0525	3.0
2	7.1	1715	10.8	0555	3.9
3	7.5	1805	11.3	0505	3.7
4	5.6	1825	8.1	0605	3.8
5	5.6	1655	9.0	0535	2.3
6	7.6	1710	12.5	0420	3.3
7	5.3	2400	7.7	2355	3.5
8	4.2	1850	7.9	0650	2.0
9	4.7	1800	7.3	0910	2.8
10	3.5	2400	4.7	0655	2.3
11	5.8	1725	10.6	0700	2.1
12	5.7	1555	9.2	0600	2.6
13	6.8	1810	11.4	0520	3.2
14	9.0	1830	13.8	0545	5.1
15	9.5	1515	13.3	0615	6.3
16	9.9	1610	14.0	0545	6.2
17	8.2	1725	10.6	0630	6.0
18	8.1	1625	10.6	0815	6.5
19	9.0	1805	13.9	0620	5.1
20	9.8	1625	13.9	0500	6.3
21	8.5	2400	9.6	0715	7.9
22	6.6	2400	8.2	2355	5.4
23	8.3	1845	11.8	0335	5.0
24	9.6	1735	12.9	0640	6.6
25	8.4	1705	10.0	0700	7.0
26	7.4	1600	9.0	0610	5.8
27	7.2	1730	9.1	0620	5.6
28	7.5	1630	10.2	0645	5.5
29	7.6	1830	10.2	0625	5.8
30	7.0	1540	8.6	0550	5.7
31	7.4	1620	9.6	0500	5.4
AVERAGE	7.2		10.2		4.7
MAXIMUM	9.9		14.0		7.9
MINIMUM	3.5		4.7		2.0

ARCTIC NATIONAL WILDLIFE REFUGE

Sikrelurak River

AUGUST 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	7.9	1700	11.0	0620	5.6
2	8.5	1805	11.3	0625	6.6
3	7.1	1755	8.6	0720	6.2
4	5.7	1820	7.2	0910	4.6
5	7.9	1530	12.8	0555	4.3
6	7.7	1730	10.3	0835	4.3
7	7.1	1815	9.2	0535	4.6
8	6.1	2400	7.0	2355	5.3
9	6.0	1830	9.4	0720	3.8
10	5.6	1610	7.8	0540	3.5
11	4.2	2400	5.1	0830	3.4
12	4.7	1735	7.3	0615	3.0
13	6.0	1910	9.4	0540	3.8
14	7.8	1820	11.9	0650	4.7
15	7.4	2400	8.7	0650	6.4
16	8.8	1655	13.3	0650	5.6
17	7.9	1710	10.9	0740	5.3
18	5.4	1625	7.3	0810	3.5
19	5.4	1650	9.0	0735	2.1
20	5.7	1745	8.2	0750	3.7
21	6.1	1550	9.7	0635	2.7
22	6.1	0650	7.3	2355	3.7
23	3.2	1540	4.2	2355	2.2
24	2.5	1450	4.0	0740	1.1
25	3.4	1640	5.9	0440	1.7
26	3.8	1620	6.3	0705	2.3
27	3.3	1655	5.9	0715	1.3
28	3.8	1725	7.2	0740	1.2
29	4.4	1710	7.8	0705	1.3
30	4.1	1720	7.0	0750	1.5
31	4.7	1805	8.3	0725	1.8
AVERAGE	5.8		8.4		3.6
MAXIMUM	8.8		13.3		6.6
MINIMUM	2.5		4.0		1.1

ARCTIC NATIONAL WILDLIFE REFUGE

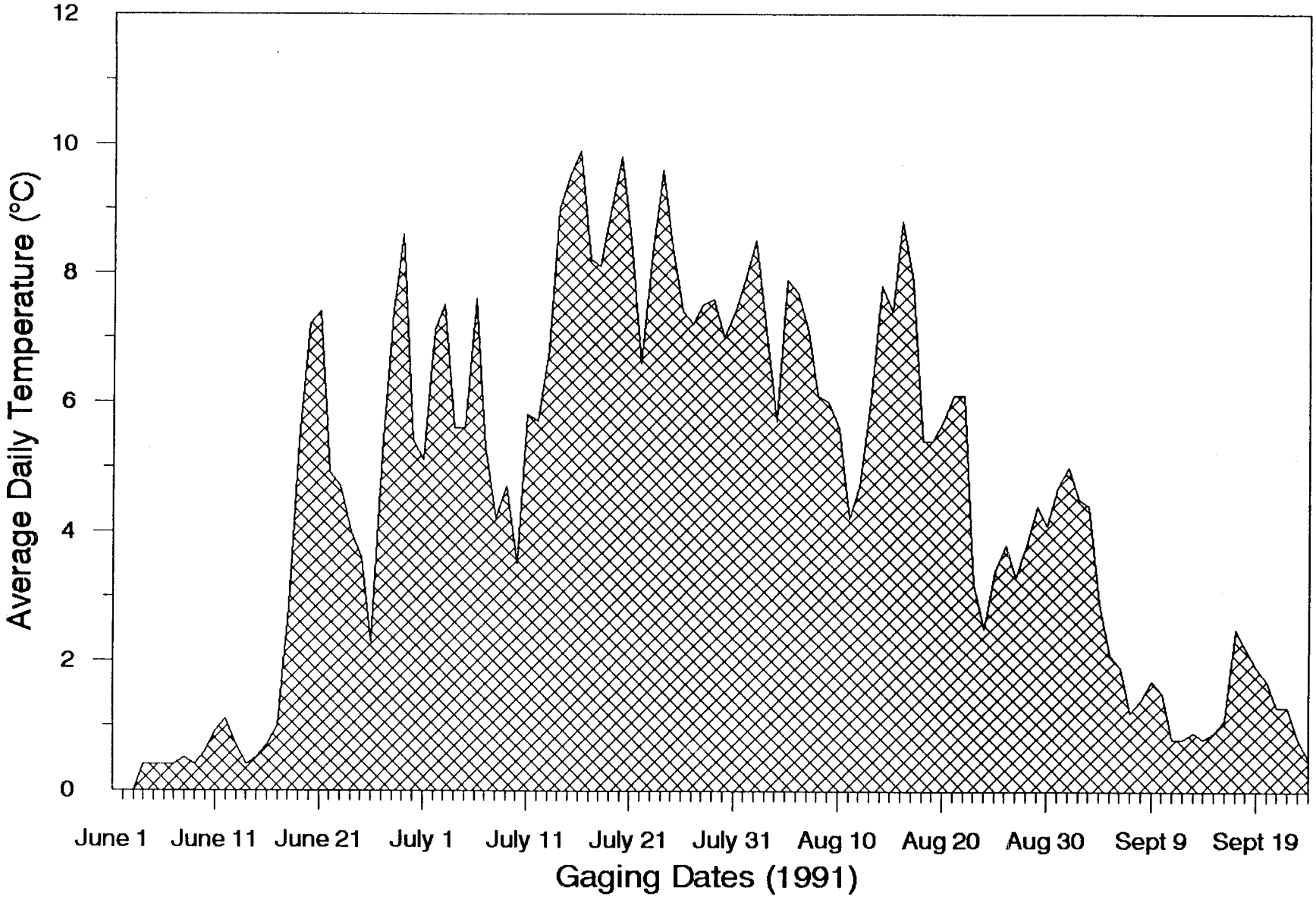
Sikrelurak River

SEPTEMBER 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	5.0	1730	6.3	0555	3.9
2	4.5	1735	6.9	0700	2.8
3	4.4	1640	6.1	0700	2.9
4	2.9	2400	4.1	0645	1.8
5	2.1	1535	4.3	0645	0.6
6	1.9	1655	4.1	0800	0.5
7	1.2	2400	2.2	2350	0.4
8	1.4	1730	2.4	2400	0.4
9	1.7	1800	3.1	0830	0.6
10	1.5	1545	3.2	0300	0.4
11	0.8	1545	1.9	0540	0.2
12	0.8	1645	1.5	2400	0.3
13	0.9	1555	1.8	0640	0.3
14	0.8	1530	1.8	2355	0.3
15	0.9	1650	2.3	0100	0.2
16	1.1	1735	2.2	0350	0.3
17	2.5	1625	5.3	0845	0.7
18	2.2	1850	3.3	0725	1.0
19	1.9	1625	3.0	0800	0.5
20	1.7	2400	2.2	2355	1.2
21	1.3	1705	2.1	0735	0.8
22	1.3	1645	2.4	0955	0.7
23	0.8	1545	1.7	0430	0.2
24	0.5	1455	1.2	0400	0.2
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
AVERAGE	1.8		3.1		0.9
MAXIMUM	5.0		6.9		3.9
MINIMUM	0.5		1.2		0.2

Sikrelurak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River

LOCATION.--Lat 69°49'58", long 145°34', SW¼NE¼ sec. 35, T.6N., R.26E., 11.8 miles upstream from the confluence of the West Fork, Tamayariak River, 53 miles west-southwest of Kaktovik, Alaska.

DRAINAGE AREA.--136.1 mi², of which 56.8 mi² is located within the Arctic National Wildlife Refuge Wilderness Area.

PERIOD OF RECORD.--July to Sept. 1988; June to Sept. 1989; June to Sept. 1991.

REMARKS.--This is a 5th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREME FOR PERIOD OF RECORD.--Maximum Temperature 19.7°C July 15, 1989.

JUNE 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	1.2	1535	2.7	0350	0.1
5	1.2	1650	3.0	0425	0.1
6	1.4	1605	3.5	0250	-0.1
7	1.1	1705	3.4	0040	-0.1
8	1.5	1715	4.2	0020	-0.1
9	1.6	1620	4.2	0125	-0.1
10	1.1	1655	2.9	0230	-0.1
11	2.2	1725	4.9	0540	-0.1
12	2.7	1940	5.4	0520	0.6
13	2.5	2400	3.8	2355	0.8
14	0.8	1545	1.2	0550	0.2
15	1.7	1710	3.2	0415	0.5
16	1.7	1750	2.7	0610	0.6
17	3.9	1620	7.6	0505	0.7
18	4.9	1650	7.0	0505	2.6
19	5.5	1800	9.1	0550	2.2
20	6.2	1710	9.0	0555	3.7
21	7.0	1745	10.7	0545	3.8
22	6.0	1820	8.9	0815	3.4
23	7.2	1650	11.5	0605	3.6
24	5.7	1720	8.6	0750	3.1
25	6.0	1800	9.5	0555	2.9
26	6.4	1935	9.5	0915	4.3
27	8.2	1820	12.5	0735	4.5
28	10.5	1805	14.7	0620	6.5
29	11.2	1615	14.4	0600	7.7
30	7.3	2400	10.9	2355	5.5
AVERAGE	4.3		7.0		2.1
MAXIMUM	11.2		14.7		7.7
MINIMUM	0.8		1.2		-0.1

ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River

JULY 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	7.2	1830	10.4	0450	4.5
2	8.5	1805	12.0	0645	5.4
3	8.8	1800	12.6	0605	5.1
4	7.7	2400	9.7	0820	5.9
5	8.1	1850	11.8	0555	4.5
6	10.2	1825	14.5	0655	6.1
7	8.4	2400	11.8	2355	6.1
8	6.5	1640	8.6	0610	4.5
9	6.4	1855	8.3	1005	5.0
10	5.7	1750	7.6	0635	3.9
11	5.9	1725	8.9	0735	3.7
12	7.0	1735	10.4	0520	3.3
13	7.3	1920	10.0	0745	5.2
14	9.9	1820	14.1	0455	6.4
15	10.9	1530	12.7	0700	8.9
16	10.5	1705	14.3	0610	7.1
17	10.7	1835	12.5	0705	9.0
18	10.7	1915	12.8	0910	8.6
19	10.3	1505	13.0	0645	7.2
20	10.9	1820	14.0	0825	8.1
21	- - -		- - -		- - -
22	- - -		- - -		- - -
23	- - -		- - -		- - -
24	- - -		- - -		- - -
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
31	- - -		- - -		- - -
AVERAGE	8.6		11.5		5.9
MAXIMUM	10.9		14.5		9.0
MINIMUM	5.7		7.6		3.3

ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River

AUGUST 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	- - -		- - -		- - -
5	- - -		- - -		- - -
6	7.0	2400	9.5	0910	5.2
7	6.2	2130	7.3	0720	5.0
8	5.7	2400	6.7	2355	4.9
9	5.2	1910	7.7	0805	3.3
10	5.4	1835	7.0	0705	4.0
11	5.8	1735	7.8	0825	4.3
12	7.1	1925	10.1	0710	4.7
13	8.9	1805	11.9	0640	6.5
14	9.8	1845	13.0	0655	7.2
15	8.8	2400	11.1	2355	7.6
16	8.5	1540	10.9	0635	6.7
17	8.3	1635	10.3	0750	6.4
18	6.2	1700	7.8	0925	4.8
19	5.5	1735	8.0	0730	3.1
20	5.9	1740	8.4	0735	4.0
21	6.8	1825	9.3	0550	4.4
22	6.9	2400	8.2	2355	4.7
23	2.9	2400	4.7	2355	1.9
24	2.3	1855	4.3	0740	0.9
25	2.3	1750	4.8	0755	-0.1
26	2.7	1730	4.4	0745	1.5
27	2.9	1840	5.7	0750	0.5
28	4.2	1900	7.2	0805	1.5
29	4.8	1825	7.5	0800	2.1
30	4.7	1850	7.0	0820	2.2
31	5.5	1840	8.4	0730	3.2
AVERAGE	5.8		8.0		3.9
MAXIMUM	9.8		13.0		7.6
MINIMUM	2.3		4.3		-0.1

ARCTIC NATIONAL WILDLIFE REFUGE

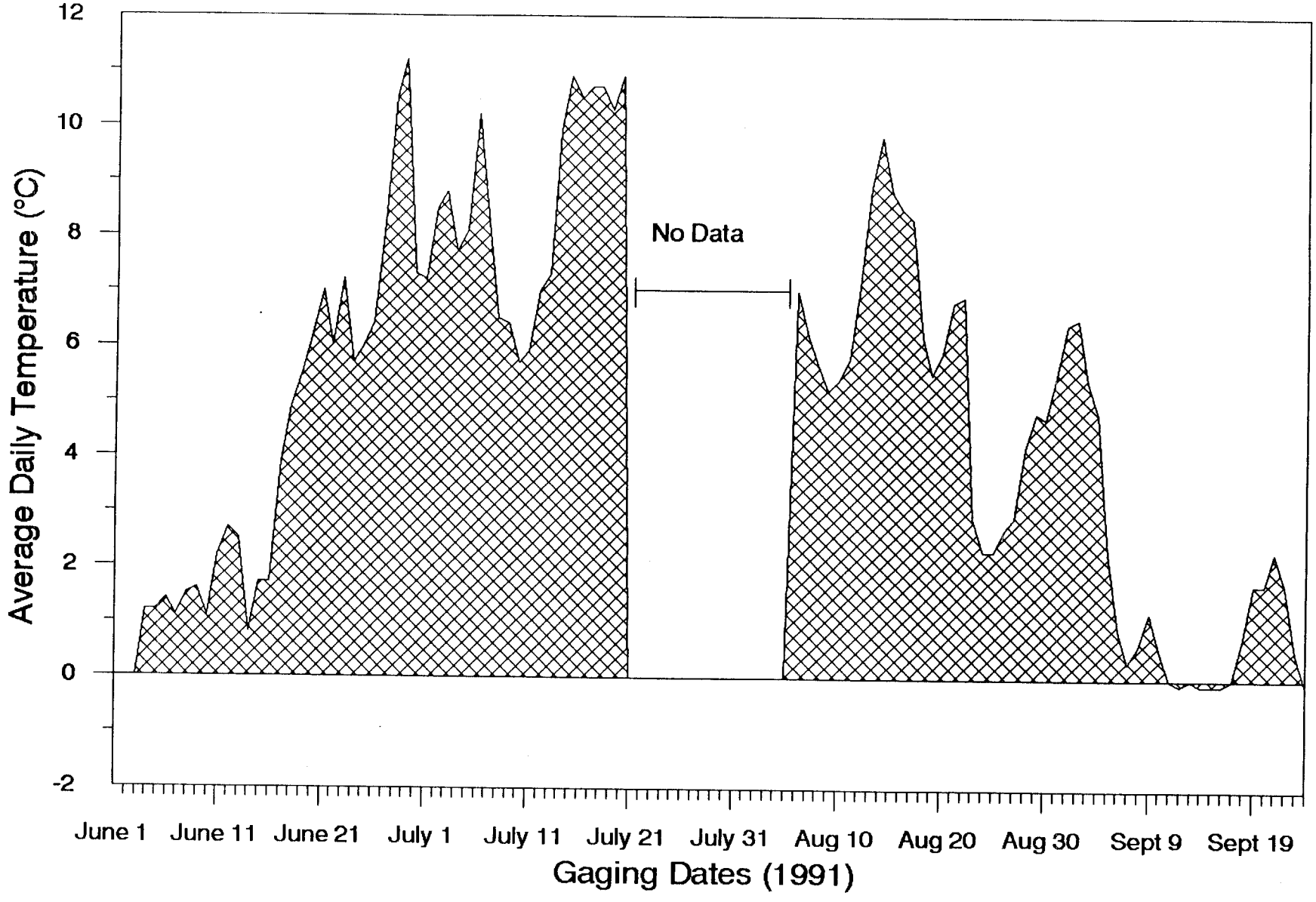
Tamayariak River

SEPTEMBER 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	6.4	1505	8.1	0655	4.9
2	6.5	1800	8.7	0830	4.5
3	5.4	1755	7.6	0815	3.2
4	4.8	1655	6.5	2355	2.7
5	2.3	1705	4.2	0750	1.2
6	0.9	1655	2.4	0645	-0.1
7	0.3	1710	0.8	0315	-0.1
8	0.6	1800	2.0	0355	-0.1
9	1.2	1715	3.1	0730	0.0
10	0.5	1715	1.9	0135	-0.2
11	0.0	1615	0.5	0300	-0.1
12	-0.1	1505	0.1	2400	-0.1
13	0.0	1430	0.4	2315	-0.1
14	-0.1	1330	0.2	0620	-0.2
15	-0.1	1420	-0.1	2400	-0.1
16	-0.1	1355	-0.1	2400	-0.1
17	0.0	1550	0.3	0505	-0.1
18	0.7	1940	2.1	0630	-0.1
19	1.7	1645	2.8	0810	0.8
20	1.7	1845	2.3	0920	1.2
21	2.3	1715	3.2	0700	1.7
22	1.7	2400	2.4	0935	1.2
23	0.5	0005	1.3	0710	-0.2
24	-0.1	1720	0.2	2255	-0.1
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
AVERAGE	1.5		2.5		0.8
MAXIMUM	6.5		8.7		4.9
MINIMUM	-0.1		-0.1		-0.2

Tamayariak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, LOWER WEST FORK

LOCATION.--Lat 69°58'50", long 145°47'40", NW¼NW¼sec 12, T.7N., R.25E., 1.5 miles upstream from the confluence with the Tamayariak River, 54 miles west-southwest of Kaktovik, Alaska.

DRAINAGE AREA.--98.14 mi², of which 5.55 mi² are located within the Arctic National Wildlife Refuge Wilderness Area.

PERIOD OF RECORD.--July to Sept. 1988; June to Sept. 1989; June to Sept. 1990; June to Sept. 1991.

REMARKS.--This is a 4th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREME FOR PERIOD OF RECORD.--Maximum Temperature, 16.6°C July 15, 1989.

JUNE 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	- - -		- - -		- - -
5	- - -		- - -		- - -
6	- - -		- - -		- - -
7	1.0	1641	3.1	0101	-0.2
8	1.5	1711	4.2	0111	-0.2
9	1.3	1611	3.5	0221	-0.2
10	1.1	1801	2.9	0226	-0.2
11	2.2	1731	4.9	0536	-0.2
12	2.9	1951	5.4	0621	0.9
13	2.7	1631	3.9	2356	1.6
14	1.3	1801	2.3	0631	0.4
15	1.9	1511	3.6	0456	0.5
16	2.4	1646	5.1	0646	0.6
17	4.1	1846	8.2	0551	0.7
18	5.7	1656	9.0	0516	2.4
19	5.7	1746	10.3	0536	1.6
20	7.0	1741	10.4	0356	3.3
21	7.8	1756	12.2	0521	3.7
22	5.9	1741	8.1	0811	3.6
23	6.4	1726	10.4	0606	2.9
24	4.8	1641	6.7	0756	2.9
25	3.8	1841	6.1	0616	2.0
26	5.3	1801	9.3	0721	2.8
27	7.1	1746	10.5	0616	4.0
28	9.4	1751	13.1	0526	5.6
29	11.1	1646	14.0	0541	8.0
30	7.7	0001	10.6	2356	5.5
AVERAGE	4.6		7.4		2.2
MAXIMUM	11.1		14.0		8.0
MINIMUM	1.0		2.3		-0.2

ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, LOWER WEST FORK

JULY 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	6.7	1716	9.6	0601	4.3
2	7.4	1646	10.4	0521	4.8
3	7.5	1736	10.7	0546	4.4
4	5.7	0001	7.3	2356	4.5
5	5.3	1616	7.9	0511	2.8
6	7.3	1756	11.2	0506	4.1
7	6.4	0001	7.9	2356	5.1
8	5.3	1531	7.1	0536	3.9
9	5.6	1911	7.9	0816	3.9
10	4.8	1801	6.5	0551	3.2
11	5.3	1706	8.5	0606	3.0
12	5.2	1716	8.1	0541	2.8
13	5.0	1931	6.8	0521	3.3
14	7.3	1806	11.4	0501	3.4
15	8.4	1521	10.7	0641	6.1
16	9.2	1701	12.4	0546	6.5
17	8.8	1906	11.1	0706	7.0
18	8.7	1606	11.3	0721	7.2
19	8.7	1636	11.9	0536	5.9
20	9.1	1651	11.8	0641	6.7
21	9.3	1956	10.2	0151	8.4
22	8.4	0001	9.1	2351	7.1
23	- - -		- - -		- - -
24	- - -		- - -		- - -
25	7.1	1814	8.4	0624	6.1
26	6.9	1609	9.1	0609	5.2
27	5.9	1354	6.4	2359	5.0
28	5.2	1514	6.5	0604	4.2
29	5.7	1859	8.2	0704	3.9
30	5.8	1554	6.5	0614	5.2
31	5.5	1814	6.8	0534	4.5
AVERAGE	6.8		9.0		4.9
MAXIMUM	9.3		12.4		8.4
MINIMUM	4.8		6.4		2.8

ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, LOWER WEST FORK

AUGUST 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	5.7	1704	7.5	0444	4.4
2	6.2	1629	8.2	0514	4.8
3	5.1	0004	5.8	2359	4.3
4	4.4	1624	5.3	0704	3.7
5	6.2	2249	8.2	0449	3.7
6	5.6	0004	7.5	0639	4.0
7	5.6	1724	7.1	0729	4.5
8	4.7	1919	5.4	2359	4.2
9	4.6	1724	6.7	0624	2.9
10	4.2	1844	5.5	0549	3.2
11	3.5	1644	4.5	0629	2.7
12	4.0	1744	6.3	0529	2.6
13	5.4	1724	8.4	0649	3.2
14	6.2	1719	9.4	0554	3.4
15	5.8	1649	6.6	2359	5.2
16	6.2	1519	8.4	0649	4.4
17	6.1	1659	8.4	0644	4.3
18	4.9	1609	7.1	0619	3.8
19	4.9	1634	7.4	0604	3.1
20	4.6	1639	6.8	0624	3.1
21	5.3	1634	8.0	0429	2.8
22	5.2	0004	6.3	2359	3.9
23	3.3	1629	4.0	2359	2.6
24	2.9	1719	4.3	0529	1.9
25	2.7	1734	4.7	0744	1.3
26	2.4	1644	3.7	0659	1.6
27	2.4	1639	4.8	0639	0.6
28	3.2	1659	5.8	0659	1.3
29	3.5	1644	6.3	0649	1.2
30	3.2	1629	5.3	0639	1.6
31	4.2	1639	7.1	0639	2.0
AVERAGE	4.6		6.5		3.1
MAXIMUM	6.2		9.4		5.2
MINIMUM	2.4		3.7		0.6

ARCTIC NATIONAL WILDLIFE REFUGE

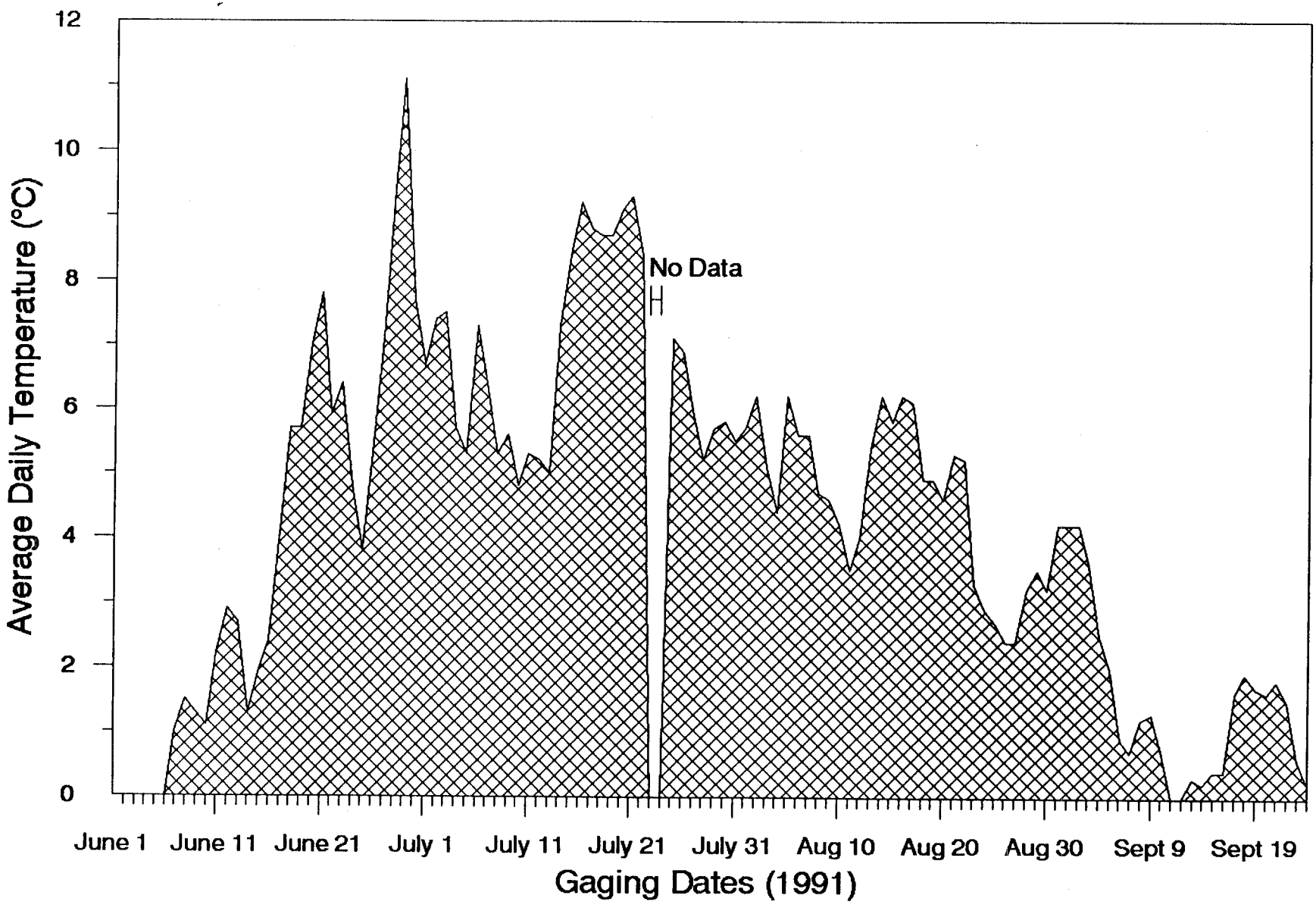
TAMAYARIAK RIVER, LOWER WEST FORK

SEPTEMBER 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	4.2	1434	6.1	0434	2.8
2	4.2	1629	6.4	0659	2.5
3	3.6	1649	5.2	0749	2.4
4	2.5	1529	3.1	2359	1.7
5	2.0	1524	3.7	2359	0.7
6	0.9	1639	2.4	0704	0.0
7	0.7	1604	1.4	0324	0.2
8	1.2	1654	3.2	0359	-0.2
9	1.3	1654	3.0	0759	0.3
10	0.7	1539	1.9	0434	-0.2
11	0.0	1549	0.4	0314	-0.2
12	0.0	1809	0.5	0014	-0.2
13	0.3	1639	1.4	0029	-0.2
14	0.2	1619	1.1	0254	-0.2
15	0.4	1659	1.7	0019	-0.2
16	0.4	1634	1.3	0144	-0.2
17	1.6	1539	3.5	0649	0.3
18	1.9	1629	3.9	0849	0.6
19	1.7	1659	3.0	0314	0.6
20	1.6	1549	2.1	0814	1.2
21	1.8	1644	2.8	0259	1.1
22	1.5	1509	2.2	2359	0.8
23	0.6	1419	1.4	2359	-0.2
24	0.2	1554	1.2	0009	-0.2
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
AVERAGE	1.4		2.6		0.6
MAXIMUM	4.2		6.4		2.8
MINIMUM	0.0		0.4		-0.2

Lower West Fork Tamayariak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River, Middle Fork

LOCATION.-Lat 69°58'33", long 145°46'44", in center sec 12, T.7N., R.25E., 0.4 miles upstream from the confluence with the West Fork Tamayariak River, 54 miles west-southwest of Kaktovik, Alaska.

DRAINAGE AREA.-61.3 mi², of which 0.79 mi² are located within the Arctic National Wildlife Wilderness Area.

PERIOD OF RECORD.--July to Sept. 1988; June to Sept. 1989; June to Sept. 1990; June to Sept. 1991.

REMARKS.-This is a 4th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREME FOR PERIOD OF RECORD.-Maximum Temperature, 19.9°C July 3, 1990.

JUNE 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	0.2	1458	0.5	0328	-0.1
5	0.3	1548	0.9	0218	-0.1
6	0.6	1608	1.7	0253	-0.1
7	0.8	1618	2.5	0008	-0.1
8	1.3	1628	3.6	0048	-0.1
9	1.3	1638	3.4	0138	-0.1
10	1.1	1753	2.9	0133	-0.1
11	2.2	1723	4.9	0353	-0.1
12	2.4	1908	4.6	0553	0.6
13	1.9	1628	3.0	2358	1.0
14	1.1	1743	2.0	0513	0.3
15	1.6	1453	2.9	0538	0.5
16	2.1	1718	4.6	0658	0.5
17	3.6	1633	7.0	0523	0.7
18	4.8	1658	7.6	0453	2.1
19	5.6	1703	9.6	0523	1.8
20	6.4	1618	9.0	0403	3.7
21	7.0	1728	11.3	0458	3.2
22	5.3	1738	8.3	0728	2.8
23	6.0	1713	10.5	0528	2.0
24	4.6	1658	7.4	0723	2.1
25	4.1	1858	7.2	0613	1.8
26	5.3	1823	9.6	0728	2.4
27	6.9	1833	11.1	0623	3.2
28	8.6	1803	13.2	0613	4.1
29	9.8	1618	13.6	0548	6.1
30	6.0	0003	8.6	0958	4.5
AVERAGE	3.7		6.4		1.6
MAXIMUM	9.8		13.6		6.1
MINIMUM	0.2		0.5		-0.1

ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River, Middle Fork

JULY 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	6.4	1733	10.0	0558	3.5
2	7.7	1758	11.2	0628	4.3
3	7.7	1818	11.4	0608	4.3
4	5.9	0003	8.4	1108	4.8
5	5.9	1633	9.3	0528	3.0
6	8.3	1818	12.6	0633	4.8
7	6.8	0003	9.4	2358	5.2
8	5.4	1528	7.1	0553	3.8
9	6.1	1928	8.7	0918	3.9
10	5.3	1753	7.4	0638	3.5
11	6.2	1718	9.7	0623	3.5
12	6.3	1648	9.7	0608	3.4
13	6.0	1838	8.0	0508	4.2
14	8.6	1758	13.2	0603	4.4
15	9.7	1518	11.9	0703	7.4
16	10.0	1728	13.1	0608	7.2
17	9.1	2028	11.3	0723	7.3
18	9.1	1608	11.3	0748	7.3
19	9.0	1623	11.7	0643	6.1
20	9.8	1658	12.5	0713	7.3
21	9.5	0003	10.1	0443	9.3
22	8.7	0003	9.5	2358	6.7
23	7.6	1908	10.0	0743	5.9
24	8.6	1753	12.0	0658	5.8
25	8.1	1848	9.4	0758	6.9
26	8.1	1613	10.6	0648	6.0
27	7.0	0003	8.1	2358	6.0
28	6.2	1823	7.8	0628	4.8
29	6.8	1858	9.4	0708	4.9
30	6.7	0003	7.7	0813	6.1
31	6.4	1828	7.9	0703	5.2
AVERAGE	7.5		10.0		5.4
MAXIMUM	10.0		13.2		9.3
MINIMUM	5.3		7.1		3.0

ARCTIC NATIONAL WILDLIFE REFUGE

Tamayariak River, Middle Fork

AUGUST 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	6.5	1723	8.3	0628	5.1
2	7.2	1633	9.2	0628	5.5
3	5.9	0003	7.3	2358	4.9
4	4.9	1743	5.7	0833	4.0
5	6.8	2253	9.1	0508	4.1
6	6.4	0003	8.6	0758	4.5
7	6.3	1733	7.9	0743	5.0
8	5.3	0003	6.3	1103	4.7
9	5.2	1713	7.5	0718	3.2
10	4.9	1828	6.3	0643	3.7
11	- - -		- - -		- - -
12	- - -		- - -		- - -
13	- - -		- - -		- - -
14	7.6	1712	10.7	0707	4.7
15	6.9	0002	8.2	2357	6.2
16	7.1	1507	9.1	0717	5.2
17	7.1	1712	9.4	0642	5.2
18	5.7	1542	7.7	0732	4.5
19	5.7	1637	8.4	0642	3.6
20	5.6	1622	8.1	0657	3.8
21	5.9	1617	8.6	0607	3.6
22	5.9	0007	7.0	2357	4.5
23	3.4	0002	4.4	2357	2.5
24	2.7	1842	4.2	0732	1.5
25	2.7	1737	4.8	0817	1.0
26	2.7	1742	4.0	0752	1.7
27	2.7	1732	5.2	0657	0.6
28	3.6	1752	6.4	0737	1.3
29	4.0	1727	6.9	0732	1.3
30	3.8	1627	5.8	0752	1.9
31	4.7	1737	7.7	0657	2.1
AVERAGE	5.3		7.2		3.6
MAXIMUM	7.6		10.7		6.2
MINIMUM	2.7		4.0		0.6

ARCTIC NATIONAL WILDLIFE REFUGE

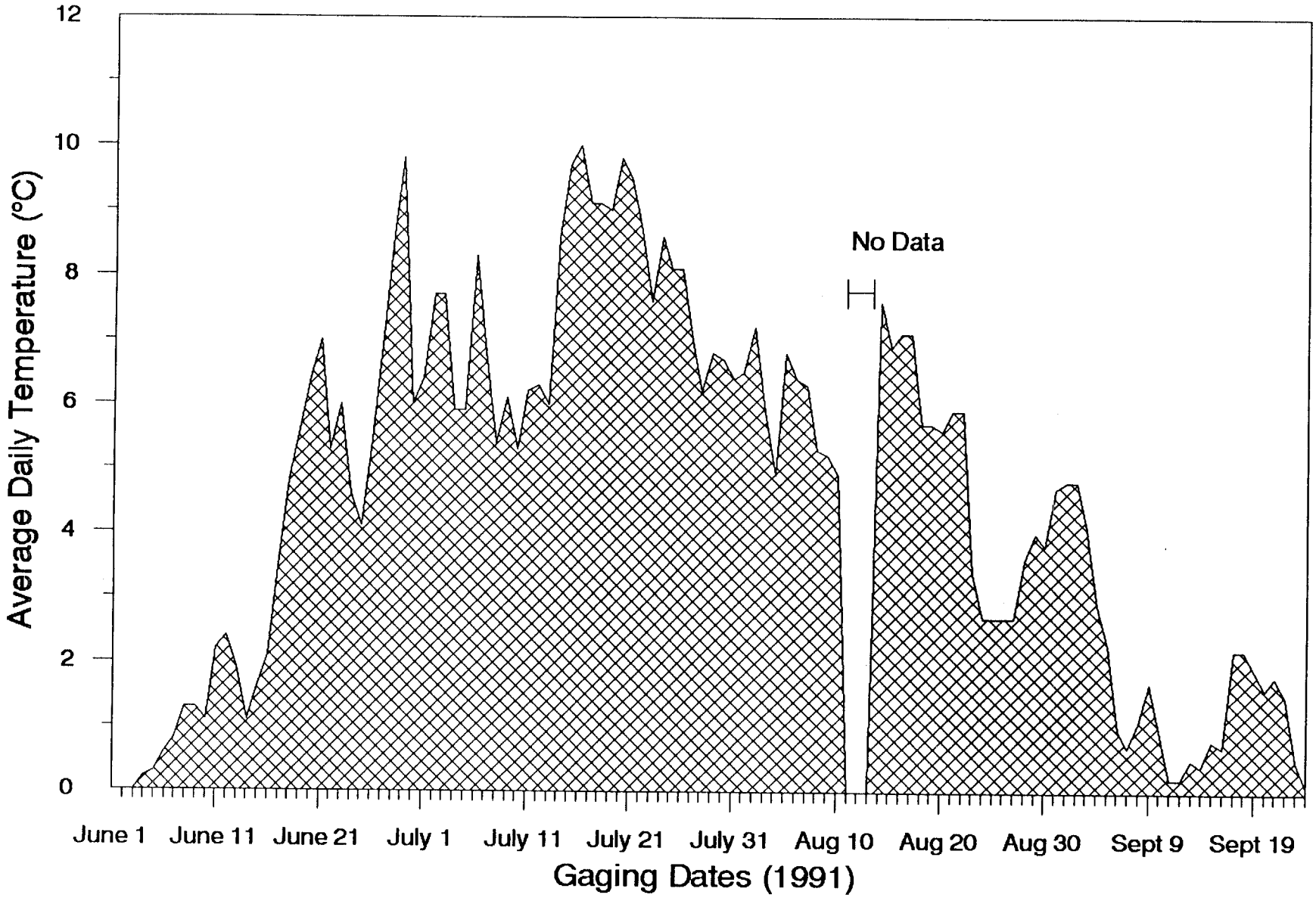
Tamayariak River, Middle Fork

SEPTEMBER 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	4.8	1437	6.6	0612	3.2
2	4.8	1652	7.2	0712	2.8
3	4.1	1627	5.8	0802	2.6
4	2.9	0002	3.7	2357	2.0
5	2.3	1517	4.3	2357	1.0
6	1.0	1647	2.8	0637	-0.1
7	0.7	1557	1.4	0722	0.1
8	1.1	1737	3.0	0422	-0.1
9	1.7	1652	3.8	0832	0.4
10	0.9	1602	2.3	0507	-0.2
11	0.2	1642	0.7	0412	-0.1
12	0.2	1717	0.7	0112	-0.1
13	0.5	1652	1.7	0557	-0.1
14	0.4	1617	1.5	0612	-0.1
15	0.8	1647	2.4	0112	-0.1
16	0.7	1637	1.7	0347	-0.2
17	2.2	1537	4.1	0702	0.6
18	2.2	1722	4.2	0837	0.8
19	1.9	1707	3.2	0507	0.7
20	1.6	1737	2.1	0857	1.1
21	1.8	1732	2.9	0542	1.1
22	1.5	1542	2.1	2357	0.9
23	0.5	1612	1.2	2302	-0.1
24	0.1	1647	0.5	0007	-0.1
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
AVERAGE	1.6		2.9		0.7
MAXIMUM	4.8		7.2		3.2
MINIMUM	0.1		0.5		-0.2

Middle Fork Tamayariak River

1991



ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, UPPER WEST FORK

LOCATION.--Lat 69°49'58", long 145°55'15", in the center W½W½ sec 33, T.6N., R.25E., 13.9 miles upstream from the confluence with the Tamayariak River, 61.1 miles west-southwest of Kaktovik, Alaska.

DRAINAGE AREA.--49.2 mi², of which 5.6 mi² are located within the Arctic National Wildlife Refuge Wilderness Area.

PERIOD OF RECORD.--July to Sept. 1988; June to Sept. 1989; June to Sept. 1990; June to Sept. 1991

REMARKS.--This is a 4th Order drainage. Discharge records are initiated during break-up and discontinued at freeze-up of each year.

EXTREME FOR PERIOD OF RECORD.--Maximum Temperature, 20.7°C July 5, 1990.

JUNE 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	- - -		- - -		- - -
2	- - -		- - -		- - -
3	- - -		- - -		- - -
4	- - -		- - -		- - -
5	- - -		- - -		- - -
6	- - -		- - -		- - -
7	- - -		- - -		- - -
8	- - -		- - -		- - -
9	- - -		- - -		- - -
10	- - -		- - -		- - -
11	- - -		- - -		- - -
12	- - -		- - -		- - -
13	- - -		- - -		- - -
14	- - -		- - -		- - -
15	- - -		- - -		- - -
16	- - -		- - -		- - -
17	- - -		- - -		- - -
18	- - -		- - -		- - -
19	- - -		- - -		- - -
20	1.6	1732	2.4	0257	0.8
21	3.4	1612	5.5	0302	1.5
22	3.7	1522	5.7	0647	2.2
23	4.4	1552	8.0	0417	1.4
24	3.9	1612	6.6	0622	1.8
25	4.3	1542	7.6	0537	1.5
26	4.9	1812	8.6	0742	2.6
27	6.5	1727	10.6	0532	3.1
28	8.0	1647	12.1	0532	4.1
29	8.6	1612	11.7	0442	5.5
30	5.5	0002	7.5	2357	4.3
AVERAGE	5.0		7.8		2.6
MAXIMUM	8.6		12.1		5.5
MINIMUM	1.6		2.4		0.8

ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, UPPER WEST FORK

JULY 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN TEMP DEG C
1	6.1	1802	9.5	0422	3.5
2	7.5	1737	10.9	0617	4.4
3	7.7	1747	11.1	0627	4.4
4	6.5	0002	8.2	0637	5.3
5	6.8	1702	10.0	0537	4.0
6	8.7	1747	12.6	0627	5.2
7	7.0	0002	9.3	2357	5.1
8	5.4	1552	7.0	0607	3.8
9	5.4	1812	6.9	1007	4.2
10	4.9	1842	6.4	0617	3.3
11	5.2	1752	7.7	0737	3.4
12	5.9	1732	8.7	0537	3.4
13	6.2	1912	8.4	0502	4.3
14	8.1	1837	11.3	0432	5.3
15	8.5	1502	10.1	0647	7.0
16	8.7	1802	12.0	0552	5.5
17	9.3	1817	11.6	0612	7.6
18	9.5	1552	12.1	0752	7.7
19	9.3	1607	12.3	0642	6.4
20	10.6	1642	13.9	0627	7.9
21	8.7	0002	10.7	1522	7.4
22	9.4	1137	10.7	2337	7.1
23	7.4	1952	8.7	0737	6.3
24	8.9	1902	12.3	0707	6.0
25	9.3	1907	11.1	0812	7.4
26	9.6	1857	12.1	0832	7.5
27	9.1	0002	10.9	2357	8.0
28	7.2	2047	8.5	0927	6.1
29	8.5	2002	11.3	0902	6.5
30	9.3	0002	10.7	1152	8.6
31	8.6	2012	9.5	1002	7.8
AVERAGE	7.8		10.2		5.8
MAXIMUM	10.6		13.9		8.6
MINIMUM	4.9		6.4		3.3

ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, UPPER WEST FORK

AUGUST 1991

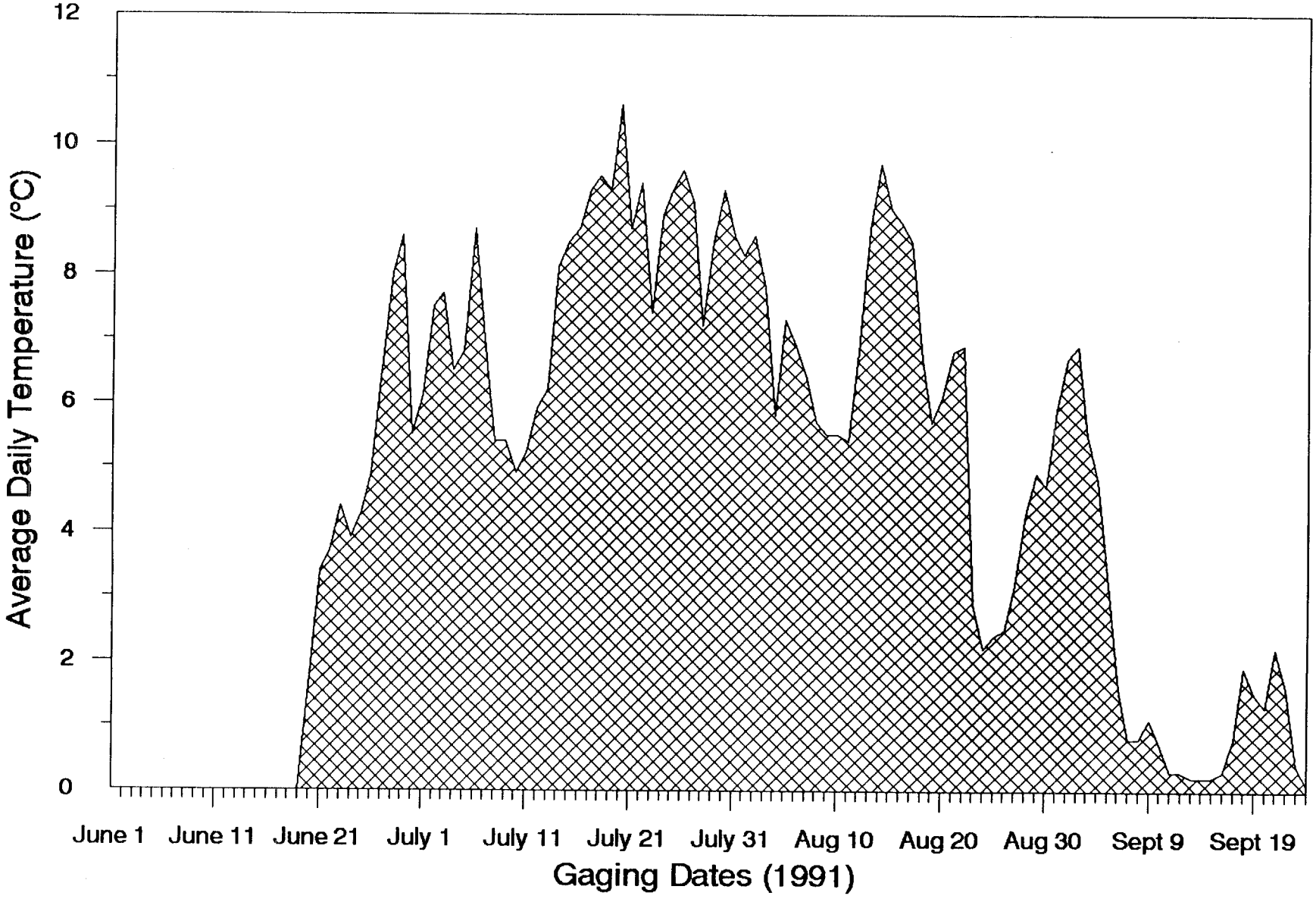
DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN DISCH.
1	8.3	2122	9.4	1037	7.3
2	8.6	0002	9.2	1112	7.9
3	7.8	0002	9.1	2357	6.5
4	5.8	0002	6.5	0947	5.2
5	7.3	1442	9.2	0722	5.2
6	6.9	0002	8.6	0807	5.1
7	6.4	1727	7.7	0657	5.3
8	5.7	1757	6.3	2357	5.0
9	5.5	1722	7.9	0742	3.5
10	5.5	1752	7.4	0617	4.0
11	5.4	1642	7.4	0727	4.1
12	6.8	1812	9.6	0632	4.5
13	8.7	1817	12.1	0627	6.0
14	9.7	1742	12.6	0637	7.2
15	9.0	0002	10.5	2357	7.9
16	8.8	1512	11.2	0642	7.1
17	8.5	1602	10.9	0742	6.7
18	6.7	1742	8.6	0837	5.3
19	5.7	1702	8.2	0712	3.2
20	6.1	1702	8.5	0642	4.3
21	6.8	1807	8.8	0207	4.8
22	6.9	0012	7.8	2357	5.0
23	2.9	0002	5.0	2357	1.7
24	2.2	1752	4.2	0647	1.0
25	2.4	1812	4.9	0647	0.1
26	2.5	1727	4.0	0742	1.3
27	3.2	1722	6.0	0737	0.7
28	4.3	1802	7.8	0722	1.2
29	4.9	1732	8.2	0732	1.9
30	4.7	1727	7.4	0747	1.9
31	5.9	1757	9.2	0647	3.2
AVERAGE	6.1		8.2		4.3
MAXIMUM	9.7		12.6		7.9
MINIMUM	2.2		4.0		0.1

ARCTIC NATIONAL WILDLIFE REFUGE

TAMAYARIAK RIVER, UPPER WEST FORK

SEPTEMBER 1991

DATE	AVG TEMP DEG C	TIME OF MAX TEMP	MAX TEMP DEG C	TIME OF MIN TEMP	MIN DISCH. CU. FT/SEC
1	6.7	1537	8.8	0632	5.1
2	6.9	1657	9.4	0817	4.8
3	5.5	1707	7.8	0812	3.4
4	4.8	1522	6.2	2357	3.1
5	3.2	1557	5.0	2357	1.8
6	1.6	1612	2.8	2347	0.7
7	0.8	1737	1.3	2357	0.4
8	0.8	1852	1.9	0207	0.3
9	1.1	1702	2.6	0542	0.3
10	0.7	1327	1.0	2357	0.2
11	0.3	1447	0.6	0317	0.1
12	0.3	1517	0.5	2207	0.1
13	0.2	1547	0.5	2107	0.1
14	0.2	1712	0.3	2202	0.1
15	0.2	1647	0.4	0022	0.1
16	0.3	1617	0.4	0332	0.2
17	0.8	1627	1.6	0742	0.1
18	1.9	1637	4.1	0837	0.7
19	1.5	1622	3.1	0232	0.3
20	1.3	1747	2.2	0747	0.7
21	2.2	1712	3.4	0537	1.3
22	1.6	0002	2.2	0912	1.1
23	0.4	0002	1.2	2037	0.1
24	0.1	1157	0.2	2317	0.1
25	- - -		- - -		- - -
26	- - -		- - -		- - -
27	- - -		- - -		- - -
28	- - -		- - -		- - -
29	- - -		- - -		- - -
30	- - -		- - -		- - -
AVERAGE	1.8		2.8		1.1
MAXIMUM	6.9		9.4		5.1
MINIMUM	0.1		0.2		0.1

Upper West Fork Tamayariak River

1991