

# SOUTHWEST ALASKA

## 15297610 RUSSELL CREEK NEAR COLD BAY

LOCATION.--Lat 55°10'40", long 162°41'15", (Cold Bay A-3 quad), Aleutians East Borough, Hydrologic Unit 19030101, on left bank, at Russell Creek Fish Hatchery, 2.1 mi upstream from mouth, and 2.6 mi southeast of Cold Bay. Prior to February 27, 1997, at site 0.2 mi downstream.

DRAINAGE AREA.--30.9 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to December 1986, October 1995 to current year.

REVISED RECORDS.-- WRD AK-97-1: 1996, Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 7.65 ft above sea level. Prior to February 27, 1997, elevation 3.55 ft above sea level at site 0.2 mi downstream (levels by private engineering firm).

REMARKS.--Records good, except for estimated daily discharges, which are poor.

#### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e80	436	e190	238	e140	177	150	138	156	382	225	346
2	e75	303	844	237	e130	173	398	131	192	377	245	314
3	e70	260	537	201	e130	158	275	129	196	524	251	297
4	e70	374	353	191	e120	243	175	126	208	484	221	291
5	e80	266	309	e190	e130	249	224	125	221	632	210	217
6	e75	236	381	e180	e140	231	216	116	214	482	192	184
7	e70	258	555	e170	e150	193	188	112	207	371	187	160
8	e65	345	666	e170	e160	204	173	112	206	345	207	153
9	e60	462	1070	e170	e150	229	172	111	202	319	262	144
10	e75	349	568	e160	e160	259	155	108	211	426	235	149
11	e90	274	499	e160	e170	276	e150	108	207	401	206	231
12	e110	1050	696	e160	e170	205	e140	127	213	343	223	367
13	e120	706	536	e150	e180	191	e150	152	224	284	295	211
14	e110	488	493	e150	e190	210	156	139	226	414	342	181
15	e100	737	459	e150	197	186	191	138	245	818	388	216
16	e420	557	361	e150	332	163	174	145	250	525	263	204
17	278	619	303	e150	252	156	150	162	267	352	212	197
18	216	514	710	e150	189	145	138	162	281	667	204	165
19	183	391	584	e160	175	155	163	152	294	565	465	189
20	189	530	467	e160	178	136	246	153	345	406	337	480
21	251	413	366	e160	221	139	218	149	352	314	231	349
22	183	339	391	e150	227	125	189	142	617	264	278	283
23	167	316	356	e150	257	e120	196	136	1060	231	420	307
24	1230	292	355	e150	277	e120	179	128	555	219	402	473
25	463	269	312	e150	219	e120	166	129	385	216	306	329
26	376	250	280	e150	209	e110	167	132	327	220	276	311
27	325	232	312	e150	183	e110	164	120	338	325	252	247
28	277	216	361	e150	169	e110	158	121	384	385	215	209
29	276	202	321	e150	---	e100	156	136	463	340	206	204
30	243	195	267	e140	---	e110	149	145	382	289	228	218
31	235	---	243	e140	---	e130	---	152	---	250	284	---
TOTAL	6562	11879	14145	5087	5205	5233	5526	4136	9428	12170	8268	7626
MEAN	212	396	456	164	186	169	184	133	314	393	267	254
MAX	1230	1050	1070	238	332	276	398	162	1060	818	465	480
MIN	60	195	190	140	120	100	138	108	156	216	187	144
AC-FT	13020	23560	28060	10090	10320	10380	10960	8200	18700	24140	16400	15130
CFSM	6.85	12.8	14.8	5.31	6.02	5.46	5.96	4.32	10.2	12.7	8.63	8.23
IN.	7.90	14.30	17.03	6.12	6.27	6.30	6.65	4.98	11.35	14.65	9.95	9.18

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001, BY WATER YEAR (WY)#

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	274	304	262	169	153	132	139	209	337	347	317	369								
MAX	516	530	549	318	272	218	261	300	634	528	403	538								
(WY)	1986	1986	1984	1982	1982	1996	1998	1982	2000	1982	2000	1998								
MIN	172	168	86.8	59.5	71.2	75.8	80.3	133	208	192	256	170								
(WY)	1997	2000	2000	2000	2000	1986	1985	2001	1997	1997	1996	2000								

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001#	
ANNUAL TOTAL	102190		95265			
ANNUAL MEAN	279		261		251	
HIGHEST ANNUAL MEAN					302	
LOWEST ANNUAL MEAN					206	
HIGHEST DAILY MEAN	1570	Jun 2	1230	Oct 24	4000	Jun 24 1996
LOWEST DAILY MEAN	a55	Jan 6	60	Oct 9	b50	Feb 19 1982
ANNUAL SEVEN-DAY MINIMUM	55	Jan 6	70	Oct 3	51	Feb 18 1982
MAXIMUM PEAK FLOW			3060	Nov 12	c6000	Oct 22 1981
MAXIMUM PEAK STAGE			28.74	Nov 12	d11.76	Jun 24 1996
INSTANTANEOUS LOW FLOW					f49	Mar 13 1983
ANNUAL RUNOFF (AC-FT)	202700		189000		181800	
ANNUAL RUNOFF (CFSM)	9.04		8.45		8.12	
ANNUAL RUNOFF (INCHES)	123.02		114.69		110.37	
10 PERCENT EXCEEDS	560		464		444	
50 PERCENT EXCEEDS	212		213		202	
90 PERCENT EXCEEDS	65		128		92	

# See Period of Record  
 a Jan. 6-15  
 b Feb. 19-23, 1982  
 c From rating curve extended above 610 ft<sup>3</sup>/s on basis of estimate by slope-area measurement of 6,000 ft<sup>3</sup>/s and gage height of 11.19 ft  
 d Site and datum then in use; from flood marks  
 e Estimated  
 f Mar. 13-14, 1983

# SOUTHWEST ALASKA

15297610 RUSSELL CREEK NEAR COLD BAY--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982-83, 1996 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August 1996 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water-temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on August 28. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 15.5°C, August 13-14, 2001; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 15.5°C, August 13-14; minimum 0.0°C on many days during winter.

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	STREAM WIDTH (FT) (000004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	GAGE HEIGHT (FEET) (000065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	TEMPER-	TEMPER-
						ATURE WATER (DEG C) (000010)	ATURE AIR (DEG C) (000020)
AUG							
28...	1132	75.0	3.00	25.95	210	6.0	11.5
28...	1133	75.0	19.0	25.95	210	6.0	11.5
28...	1134	75.0	39.0	25.95	210	6.0	11.5
28...	1135	75.0	59.0	25.95	210	6.0	11.5
28...	1136	75.0	74.0	25.95	210	6.0	11.5

### TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	6.0	7.0	4.5	2.5	4.0	.5	.0	.0	.5	.0	.0
2	9.5	6.0	7.0	4.0	1.5	2.5	2.0	.5	1.5	.5	.0	.0
3	8.5	5.0	7.0	5.0	3.0	4.0	1.5	1.0	1.5	1.0	.5	1.0
4	8.0	5.5	6.5	5.5	3.5	4.5	2.0	1.5	1.5	1.0	.0	.5
5	6.5	4.0	5.5	5.0	3.0	4.0	2.0	1.0	1.5	.0	.0	.0
6	4.0	1.0	2.5	4.0	3.5	3.5	3.0	1.0	2.0	.0	.0	.0
7	3.5	.5	1.5	5.5	2.5	4.0	3.5	1.0	2.5	.0	.0	.0
8	6.5	2.0	3.5	6.5	5.0	5.0	4.5	3.0	4.0	.0	.0	.0
9	4.5	2.0	3.5	6.0	5.0	5.5	4.0	2.0	3.0	.0	.0	.0
10	4.5	3.0	3.5	5.0	3.0	4.5	2.5	1.0	1.5	.0	.0	.0
11	6.5	2.5	4.0	4.0	2.0	3.0	3.0	1.5	2.5	.0	.0	.0
12	8.0	1.0	4.5	5.0	2.0	3.5	4.0	2.0	3.5	.0	.0	.0
13	7.0	4.5	5.5	4.0	2.0	3.0	2.0	1.0	1.5	.0	.0	.0
14	5.5	4.0	5.0	4.5	2.0	3.0	2.5	1.5	2.0	.0	.0	.0
15	4.5	3.5	4.0	4.5	3.0	4.0	2.0	1.0	1.5	.0	.0	.0
16	5.5	3.5	4.5	3.0	2.0	2.5	1.5	.5	1.0	.5	.0	.5
17	4.5	2.5	3.5	2.5	1.5	2.0	1.0	.0	.5	1.0	.5	1.0
18	6.0	2.0	3.5	2.5	1.0	1.5	2.0	.5	1.5	2.0	1.0	1.0
19	6.0	1.5	3.0	3.0	1.5	2.0	2.0	.5	1.5	1.5	.5	1.0
20	5.5	2.5	4.0	2.5	1.0	2.0	1.5	.5	1.0	2.0	.0	.5
21	4.5	2.5	4.0	3.0	2.0	2.5	2.0	1.0	1.5	.5	.0	.0
22	3.5	1.0	2.0	3.5	2.0	2.5	3.0	2.0	2.5	.5	.0	.0
23	5.5	1.5	3.0	3.0	2.5	2.5	3.0	2.5	2.5	.5	.0	.0
24	5.5	3.5	4.5	3.0	1.5	2.5	3.0	2.5	2.5	1.0	.0	.5
25	6.0	3.5	4.5	2.5	1.0	2.0	2.5	1.0	2.0	1.0	.5	.5
26	4.5	2.5	3.5	2.0	.5	1.0	3.0	1.5	2.0	1.5	.0	.5
27	5.0	3.0	4.0	1.5	.0	.5	3.0	1.5	2.0	.5	.0	.0
28	5.5	3.5	4.5	.0	.0	.0	3.0	2.5	2.5	1.5	.0	.5
29	4.5	3.0	4.0	1.0	.0	.5	2.5	2.0	2.5	.5	.0	.0
30	5.0	2.0	3.0	1.0	.0	.5	2.5	.5	1.5	.5	.0	.0
31	4.5	1.5	3.0	---	---	---	1.0	.0	.5	.5	.0	.0
MONTH	9.5	.5	4.2	6.5	.0	2.8	4.5	.0	1.9	2.0	.0	.2

# SOUTHWEST ALASKA

## 15297610 RUSSELL CREEK NEAR COLD BAY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	.0	.0	.0	1.5	.0	.5	2.5	.0	.5	9.5	1.0	4.5
2	.0	.0	.0	1.0	.0	.5	2.0	.5	1.5	3.5	.5	1.5
3	.0	.0	.0	3.0	.0	1.0	4.0	.0	1.0	6.5	.5	3.0
4	.0	.0	.0	2.0	.0	.5	3.0	.0	1.0	8.0	1.0	3.5
5	1.0	.0	.5	4.0	.5	2.0	5.0	1.0	2.5	4.5	.0	2.0
6	1.5	.0	.5	4.0	1.0	2.0	6.0	.5	3.0	4.5	.5	2.0
7	2.0	.5	1.0	4.5	1.0	2.0	7.5	1.0	3.0	8.0	.5	3.5
8	2.0	.0	1.0	5.0	2.0	3.0	6.5	.5	3.0	7.0	2.0	4.5
9	1.0	.0	.5	3.5	1.5	2.5	6.0	1.5	3.5	7.5	2.0	4.5
10	2.0	.5	1.0	3.5	1.5	2.0	3.0	.0	.5	7.0	2.0	4.0
11	2.0	.0	1.0	2.5	1.5	2.0	.0	.0	.0	5.5	2.5	4.0
12	2.0	.0	.5	6.5	.5	2.5	.5	.0	.0	3.5	2.5	3.0
13	2.0	.0	1.0	3.0	1.0	2.0	1.5	.0	.5	9.0	2.5	4.5
14	3.0	1.0	1.5	3.5	2.0	2.5	1.5	.0	.5	11.5	1.5	6.0
15	3.5	1.0	2.0	2.0	.0	1.0	4.0	.5	1.5	10.0	3.5	6.5
16	2.0	.0	1.5	1.0	.0	.5	3.5	1.0	2.0	9.5	3.5	6.0
17	2.0	.5	1.0	.0	.0	.0	3.5	1.0	2.0	10.5	3.0	6.0
18	2.5	.0	1.0	4.0	.0	1.5	4.0	.5	2.0	11.0	2.5	6.0
19	2.0	.0	1.0	5.0	.0	1.5	4.5	.5	2.5	7.0	2.5	5.0
20	2.5	1.0	2.0	5.0	.0	1.5	5.0	2.0	3.5	6.5	3.5	5.0
21	2.5	1.5	2.0	3.5	.0	1.5	5.5	2.0	3.5	8.5	2.0	5.0
22	2.5	1.5	2.0	3.0	.0	1.5	7.5	2.5	4.5	7.5	2.0	4.5
23	4.0	2.0	2.5	.5	.0	.0	5.0	2.0	3.5	6.5	2.5	4.5
24	3.0	1.0	2.0	.0	.0	.0	4.5	.0	2.0	11.5	2.5	6.0
25	4.5	1.0	2.0	.0	.0	.0	6.5	1.5	3.5	8.0	1.5	5.0
26	3.5	1.0	2.0	.0	.0	.0	7.5	1.5	4.0	6.0	2.5	3.5
27	2.0	.0	1.0	.0	.0	.0	10.0	2.5	5.5	5.0	1.5	3.0
28	1.0	.0	.0	.0	.0	.0	5.5	2.5	4.0	5.0	2.5	3.5
29	---	---	---	.5	.0	.0	5.0	1.5	3.0	8.0	3.0	5.0
30	---	---	---	.5	.0	.0	6.5	.5	3.5	12.5	3.0	6.5
31	---	---	---	1.5	.0	.5	---	---	---	10.5	4.0	6.5
MONTH	4.5	.0	1.1	6.5	.0	1.1	10.0	.0	2.4	12.5	.0	4.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.0	4.0	6.0	9.0	5.0	6.5	12.0	6.0	8.0	9.5	5.5	7.0
2	10.5	4.5	7.0	11.5	5.0	7.5	9.0	7.0	8.0	9.5	5.5	7.0
3	13.0	4.0	7.5	8.0	5.0	6.5	9.5	5.5	7.0	11.5	5.0	7.5
4	13.0	4.0	7.5	13.0	4.0	7.0	9.0	5.5	7.0	10.5	6.5	8.0
5	9.0	3.5	5.5	8.0	4.5	6.0	13.0	6.0	8.5	12.0	4.5	7.5
6	9.5	3.5	6.0	6.5	4.0	5.0	10.0	6.0	8.0	10.0	4.5	6.5
7	12.0	4.5	7.0	12.5	3.5	7.0	14.5	6.0	9.0	11.0	4.0	6.5
8	8.5	4.0	6.0	10.0	4.5	6.5	10.5	7.0	8.5	12.0	5.5	7.5
9	11.5	4.0	7.5	8.0	4.5	6.0	13.0	7.5	9.5	8.5	4.0	6.5
10	13.5	4.5	7.5	8.0	5.0	6.5	13.5	6.0	9.0	11.5	6.0	8.0
11	12.5	3.5	7.0	9.0	5.0	6.5	12.0	5.0	8.5	8.5	6.0	7.0
12	10.5	4.0	6.5	6.5	5.0	5.5	15.0	6.5	10.0	10.0	5.5	7.5
13	9.0	4.0	6.0	9.0	5.0	6.5	15.5	7.5	10.5	9.0	7.0	7.5
14	10.0	4.0	6.5	11.0	6.5	8.0	15.5	6.5	10.0	7.5	4.5	6.0
15	9.5	4.0	6.5	8.5	5.5	7.5	11.5	8.0	9.5	7.0	6.0	6.5
16	14.5	2.5	8.0	9.5	4.0	6.5	10.5	6.5	8.5	8.5	6.5	7.5
17	13.5	4.5	8.0	10.0	5.0	7.0	10.5	6.5	8.5	10.0	5.5	7.5
18	12.0	4.5	8.0	9.0	7.0	8.0	10.0	6.5	8.0	9.5	3.5	6.0
19	12.0	4.0	7.5	9.0	6.0	7.0	11.0	7.0	9.0	8.5	6.0	7.0
20	10.0	4.5	6.5	8.0	5.0	6.5	10.0	6.0	7.5	7.5	6.0	7.0
21	12.5	4.0	7.0	7.0	4.5	6.0	12.5	5.0	8.0	9.5	4.5	6.5
22	6.5	5.0	5.5	9.0	5.0	6.5	11.0	6.0	8.5	9.0	5.5	7.0
23	8.0	4.5	6.0	10.0	6.0	7.5	8.0	6.0	7.0	7.5	5.0	6.0
24	7.0	4.0	5.0	9.5	6.0	7.5	7.0	6.0	6.5	6.5	4.0	5.5
25	11.5	4.0	7.0	9.5	6.0	7.5	8.5	5.0	6.5	5.5	4.0	4.5
26	12.5	4.5	7.5	10.5	5.5	8.0	9.5	5.5	7.0	7.0	4.5	5.5
27	12.5	4.5	8.0	10.5	7.0	8.5	13.5	6.5	9.0	7.0	4.0	5.0
28	11.5	3.5	7.5	12.5	7.0	9.0	8.5	5.5	7.0	7.5	3.0	5.0
29	8.5	5.5	6.5	10.5	6.5	8.0	10.0	6.5	8.0	8.0	4.5	5.5
30	8.5	4.0	6.0	8.5	5.5	7.0	8.0	5.5	6.5	7.0	3.5	5.0
31	---	---	---	11.0	5.5	7.5	9.5	6.5	7.5	---	---	---
MONTH	14.5	2.5	6.8	13.0	3.5	7.0	15.5	5.0	8.2	12.0	3.0	6.6

# SOUTHWEST ALASKA

## 15300300 ILIAMNA RIVER NEAR PEDRO BAY

LOCATION.--Lat 59°45'31", long 153°50'41", in NE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 10, T. 5 S., R. 27 W. (Iliamna D-3 quad), Lake and Peninsula Borough, Hydrologic Unit 19030206, on left bank 100 ft downstream from bridge on road between Pile Bay and Williamsport, 9.2 mi east of Pedro Bay, and 37 mi east of Iliamna.

DRAINAGE AREA.--128 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 80 ft above sea level, from topographic map.

REMARKS.--Records are good except for estimated daily discharges which are poor. GOES satellite telemetry at station.

### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	e400	e400	e320	e340	e210	e160	e220	1980	2870	1770	1290
2	425	376	e400	e300	e320	e200	e160	e220	2070	2660	1700	1060
3	408	355	e400	e270	e320	e200	e160	e230	2540	3000	1520	949
4	444	338	e380	e250	e300	e200	e160	e230	2480	3100	1390	1120
5	690	328	e380	e240	e290	e200	e160	e240	2410	2620	1220	2010
6	894	317	382	e250	e290	e190	e160	e240	2070	2700	1260	2730
7	1280	302	441	e280	e280	e190	e160	e250	1980	2780	1350	1790
8	910	292	384	e280	e270	e190	e160	e260	2000	2460	1360	1240
9	721	360	359	e250	e260	e190	e160	e280	2170	2350	1380	992
10	635	838	352	e230	e250	e190	e160	290	2450	2530	1270	850
11	565	867	354	e240	e240	e190	e160	306	2700	3300	1350	772
12	511	701	511	e250	e240	e180	e150	332	2700	3640	1620	733
13	499	850	494	e280	e230	e180	e150	387	2580	2600	1580	801
14	903	823	451	e320	e230	e180	e150	462	2570	2140	1580	791
15	846	669	419	e400	e230	e180	e150	556	2860	2810	1530	884
16	771	669	388	e440	e230	e180	e150	721	3040	3280	1650	867
17	690	806	e420	e500	e240	e180	e160	765	3330	2900	1490	848
18	680	857	e440	e600	e250	e180	e160	859	3470	2630	1750	838
19	615	869	e460	e650	e250	e170	e170	959	3200	7460	1710	848
20	557	901	e440	e650	e240	e170	e170	1070	3210	6990	3510	801
21	512	1150	e420	e625	e240	e170	e180	1160	3740	3900	1850	1410
22	477	1370	e380	e600	e230	e170	e180	1160	4060	2790	1550	1110
23	426	1030	e400	e600	e230	e170	e190	1240	4250	2540	1170	1340
24	457	815	e420	521	e220	e170	e190	1170	4070	2410	1180	2090
25	983	669	e420	477	e220	e170	e200	1200	3820	2110	1690	1250
26	732	571	e440	546	e220	e160	e200	1310	4280	1940	1210	1050
27	624	502	e440	502	e210	e160	e210	1170	4300	2150	1060	987
28	548	518	e420	430	e210	e160	e210	1210	4500	1930	1260	872
29	498	470	e420	393	---	e160	e220	1470	3820	1870	1870	782
30	464	420	e400	365	---	e160	e220	1610	3520	2210	2240	694
31	419	---	e360	342	---	e160	---	1750	---	2190	1800	---
TOTAL	19637	19433	12775	12401	7080	5560	5170	23327	92170	90860	48870	33799
MEAN	633	648	412	400	253	179	172	752	3072	2931	1576	1127
MAX	1280	1370	511	650	340	210	220	1750	4500	7460	3510	2730
MIN	408	292	352	230	210	160	150	220	1980	1870	1060	694
AC-FT	38950	38550	25340	24600	14040	11030	10250	46270	182800	180200	96930	67040
CFSM	4.95	5.06	3.22	3.13	1.98	1.40	1.35	5.88	24.0	22.9	12.3	8.80
IN.	5.71	5.65	3.71	3.60	2.06	1.62	1.50	6.78	26.79	26.41	14.20	9.82

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)#

	1996	1997	1998	1999	2000	2001	1996	1997	1998	1999	2000	2001
MEAN	588	427	208	168	128	175	278	986	2557	1741	1240	1454
MAX	861	748	412	400	253	407	500	1313	3790	2931	1631	2178
(WY)	2000	1999	2001	2001	2001	1998	1998	1998	1998	2001	1999	1999
MIN	289	161	84.5	75.2	61.6	60.6	87.8	752	1716	788	692	627
(WY)	1997	1997	1997	1998	1998	1999	1999	2001	1996	1997	1997	1996

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1996 - 2001#
ANNUAL TOTAL	291542	371082					
ANNUAL MEAN	797	1017					874
HIGHEST ANNUAL MEAN							1083
LOWEST ANNUAL MEAN							622
HIGHEST DAILY MEAN	7830	Aug 2	7460	Jul 19	12300	Jun 8	1998
LOWEST DAILY MEAN	a140	Mar 8	b150	Apr 12	c38	Jan 5	1997
ANNUAL SEVEN-DAY MINIMUM	140	Mar 8	153	Apr 10	40	Jan 2	1997
MAXIMUM PEAK FLOW			11400	Jul 19	14800	Jun 8	1998
MAXIMUM PEAK STAGE			69.44	Jul 19	71.82	Jun 8	1998
ANNUAL RUNOFF (AC-FT)	578300	736000			633500		
ANNUAL RUNOFF (CFSM)	6.22	7.94			6.83		
ANNUAL RUNOFF (INCHES)	84.73	107.85			92.82		
10 PERCENT EXCEEDS	1940	2620			2190		
50 PERCENT EXCEEDS	488	518			503		
90 PERCENT EXCEEDS	150	180			85		

# See Period of Record; partial year used in monthly statistics  
a From Mar. 8-27  
b From Apr. 12-16  
c From Jan. 5-6, 1997  
e Estimated

# SOUTHWEST ALASKA

## 15303700 TATALINA RIVER NEAR TAKOTNA

LOCATION.--Lat 62°53'06", long 155°56'22", in NW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 12, T.32 N., R.36 W.(McGrath D-6 quad), Hydrologic Unit 19030405, at downstream side of bridge on right bank, 1.2 mi southeast of Tatalina Airstrip, and 8.1 mi southeast of Takotna.

DRAINAGE AREA.--76.9 mi<sup>2</sup>.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1987 to current year (no winter record), except May only in 1989, and annual maximum in water year 1991.

GAGE.--Water-stage recorder, non-recording gage, and crest-stage gage. Elevation of gage is 450 ft above sea level, from topographic map. Prior to May 9, 1990 at site 20 ft downstream at same datum.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Precipitation gage and air temperature recorder at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,170 ft<sup>3</sup>/s, July 8, 1998, gage-height 10.97 ft; maximum gage height 11.46 ft, 1996, date and time unknown, backwater from ice, discharge not determined; minimum discharge not determined, occurs during winter.

EXTREMES FOR CURRENT PERIOD.-- October 2000 and May to September 2001: maximum discharge during period, 686 ft<sup>3</sup>/s, August 20, gage height 8.41 ft; maximum observed gage height 10.95 ft, May 13, backwater from ice, discharge not determined; minimum discharge not determined, occurs during winter.

#### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	---	---	---	---	---	---	e100	413	67	180	123
2	e120	---	---	---	---	---	---	e110	368	66	138	115
3	e110	---	---	---	---	---	---	e120	332	68	123	110
4	e110	---	---	---	---	---	---	e130	296	79	112	125
5	e100	---	---	---	---	---	---	e140	263	70	106	168
6	e100	---	---	---	---	---	---	e150	238	67	99	133
7	e95	---	---	---	---	---	---	e160	220	63	94	117
8	e90	---	---	---	---	---	---	e170	244	62	89	108
9	e85	---	---	---	---	---	---	e180	227	61	83	102
10	e80	---	---	---	---	---	---	e190	196	64	79	97
11	e75	---	---	---	---	---	---	e210	180	128	80	92
12	e70	---	---	---	---	---	---	e250	164	172	82	89
13	e65	---	---	---	---	---	---	e280	153	130	78	84
14	e60	---	---	---	---	---	---	e320	143	114	98	79
15	e55	---	---	---	---	---	---	e350	129	100	126	77
16	e50	---	---	---	---	---	---	e380	121	109	387	73
17	e48	---	---	---	---	---	---	e410	117	127	221	71
18	e46	---	---	---	---	---	---	e440	111	112	240	70
19	e44	---	---	---	---	---	---	e470	104	118	296	69
20	e42	---	---	---	---	---	---	e500	99	174	582	68
21	e40	---	---	---	---	---	---	e530	94	180	343	67
22	e38	---	---	---	---	---	---	e545	90	154	271	65
23	e36	---	---	---	---	---	---	e530	87	182	243	65
24	e34	---	---	---	---	---	---	494	88	144	226	64
25	e32	---	---	---	---	---	---	492	88	123	203	62
26	e30	---	---	---	---	---	---	520	81	117	184	61
27	e28	---	---	---	---	---	---	468	77	156	169	64
28	e26	---	---	---	---	---	---	526	75	130	157	64
29	e24	---	---	---	---	---	---	559	72	115	146	60
30	e22	---	---	---	---	---	---	522	69	132	137	59
31	e20	---	---	---	---	---	---	470	---	230	130	---
TOTAL	1896	---	---	---	---	---	---	10716	4939	3614	5502	2601
MEAN	61.2	---	---	---	---	---	---	346	165	117	177	86.7
MAX	121	---	---	---	---	---	---	559	413	230	582	168
MIN	20	---	---	---	---	---	---	100	69	61	78	59
AC-FT	3760	---	---	---	---	---	---	21260	9800	7170	10910	5160
CFSM	.80	---	---	---	---	---	---	4.50	2.14	1.52	2.31	1.13
IN.	.92	---	---	---	---	---	---	5.18	2.39	1.75	2.66	1.26

e Estimated



# SOUTHWEST ALASKA

## 15303700 TATALINA RIVER NEAR TAKOTNA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	.0	---
20	---	---	---	---	---	---	---	---	---	.5	.0	.0
21	---	---	---	---	---	---	---	---	---	1.0	.0	.5
22	---	---	---	---	---	---	---	---	---	1.0	.0	.5
23	---	---	---	---	---	---	---	---	---	1.0	.0	.5
24	---	---	---	---	---	---	---	---	---	1.5	.0	.5
25	---	---	---	---	---	---	---	---	---	1.0	.5	.5
26	---	---	---	---	---	---	---	---	---	1.5	.0	.5
27	---	---	---	---	---	---	---	---	---	2.5	.5	1.5
28	---	---	---	---	---	---	---	---	---	3.5	1.0	2.5
29	---	---	---	---	---	---	---	---	---	4.0	2.0	3.0
30	---	---	---	---	---	---	---	---	---	4.0	2.5	3.0
31	---	---	---	---	---	---	---	---	---	4.0	3.0	3.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	3.0	3.5	11.0	9.0	10.0	9.0	7.0	8.0	5.5	5.0	5.0
2	5.0	3.5	4.0	11.5	9.0	10.0	8.5	7.0	7.5	6.0	5.0	5.5
3	5.0	4.5	5.0	10.5	9.0	9.5	8.0	7.0	7.5	6.0	5.5	6.0
4	5.5	4.5	5.0	9.0	8.0	8.5	7.0	6.0	6.5	6.0	5.5	5.5
5	5.5	4.0	4.5	8.5	8.0	8.0	7.0	5.0	6.0	6.0	5.5	5.5
6	6.5	5.0	5.5	8.5	7.5	8.0	8.5	6.0	7.0	6.0	5.0	5.5
7	6.5	4.5	5.5	9.5	7.5	8.5	8.5	6.5	7.5	5.0	4.0	4.5
8	4.5	4.0	4.0	10.5	7.5	9.0	9.0	7.5	8.5	4.5	4.0	4.0
9	5.5	3.5	4.5	9.0	7.5	8.5	9.5	8.0	9.0	4.5	3.5	4.0
10	6.0	4.5	5.0	9.0	8.0	8.5	9.0	8.0	8.0	4.0	3.0	3.5
11	6.0	4.5	5.5	8.5	7.0	7.5	8.0	7.5	7.5	4.0	3.0	3.5
12	6.5	5.0	6.0	7.5	6.5	7.0	8.5	7.5	8.0	4.0	2.5	3.0
13	6.5	5.0	5.5	8.0	7.0	7.5	10.0	8.0	9.0	4.0	2.5	3.0
14	5.0	4.5	4.5	8.5	7.5	8.0	10.0	9.0	9.5	4.5	3.0	3.5
15	6.5	3.5	5.0	8.5	7.5	8.0	9.0	9.0	9.0	5.5	4.0	4.5
16	8.5	5.5	7.0	8.0	7.5	8.0	9.0	8.0	8.5	4.5	3.5	4.0
17	9.0	7.0	8.0	8.0	7.0	7.5	8.5	7.5	8.0	4.0	3.0	3.5
18	9.0	7.0	8.0	8.0	6.5	7.5	7.5	7.0	7.5	5.0	3.5	4.0
19	9.0	8.0	8.5	8.5	7.5	8.0	7.5	7.0	7.0	5.5	4.5	5.0
20	9.5	8.0	9.0	8.0	7.5	8.0	7.5	6.5	7.0	5.5	4.5	5.0
21	10.0	8.0	9.0	9.0	7.5	8.0	7.5	7.0	7.5	5.0	3.5	4.5
22	11.0	8.5	9.5	8.5	8.0	8.5	7.0	5.5	6.0	4.0	2.5	3.0
23	11.5	9.0	10.0	9.0	8.0	8.5	5.5	5.0	5.5	3.0	1.5	2.5
24	10.5	9.5	10.0	10.0	8.5	9.0	6.0	5.5	5.5	3.0	1.5	2.0
25	10.5	8.5	9.5	9.5	8.5	9.0	5.5	5.0	5.5	2.5	1.0	2.0
26	10.5	8.5	9.5	9.0	8.0	8.5	6.0	4.5	5.5	3.0	2.0	2.5
27	9.5	8.5	9.0	9.0	7.0	8.0	6.0	5.0	5.5	3.5	2.5	2.5
28	10.5	7.5	8.5	9.0	8.0	8.5	5.5	5.0	5.5	2.5	1.5	2.0
29	11.5	8.0	9.5	9.0	8.0	8.5	5.5	5.0	5.5	1.5	.5	1.0
30	11.5	9.0	10.5	8.5	8.0	8.0	5.5	4.5	5.0	1.5	1.0	1.0
31	---	---	---	8.0	7.5	8.0	5.5	5.0	5.0	---	---	---
MONTH	11.5	3.0	6.9	11.5	6.5	8.3	10.0	4.5	7.0	6.0	.5	3.7

# SOUTHWEST ALASKA

## 15303900 KUSKOKWIM RIVER AT LISKYS CROSSING NEAR STONY RIVER

LOCATION.--Lat 62°02'51", long 156°12'42", in NE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 27, T. 23 N., R. 38 W. (Iditarod A-1 quad), Hydrologic Unit 19030405, on the downstream point of the first channel island located 0.25 mi above Lisky's house site (historic, house since destroyed), 22 mi northeast of the village of Stony River.

PERIOD OF RECORD.--May 1996 to current year (no winter record).

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level from topographic map.

REMARKS.-- GOES satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed 33.80 ft, July 11, 1998, but may have been higher during a period of missing record. Minimum gage height observed 22.94 ft, October 11, 1997, but may have been lower during a period of missing record.

EXTREMES FOR CURRENT PERIOD.--October 1-13, 2000, June 7 to September 30 2001; Maximum gage height 32.89 ft, August 21; minimum gage height 24.95 ft, September 22.

### GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.37	---	---	---	---	---	---	---	---	28.15	30.77	28.96
2	28.75	---	---	---	---	---	---	---	---	28.14	30.65	28.61
3	28.18	---	---	---	---	---	---	---	---	28.05	30.99	28.33
4	27.70	---	---	---	---	---	---	---	---	28.17	31.22	28.10
5	27.25	---	---	---	---	---	---	---	---	28.02	31.01	27.87
6	26.98	---	---	---	---	---	---	---	---	27.87	30.64	27.63
7	26.65	---	---	---	---	---	---	---	29.02	27.96	30.19	27.55
8	26.47	---	---	---	---	---	---	---	29.09	27.92	29.73	27.73
9	26.31	---	---	---	---	---	---	---	29.06	27.89	29.12	27.88
10	26.09	---	---	---	---	---	---	---	29.05	27.98	28.67	27.73
11	25.81	---	---	---	---	---	---	---	29.15	27.88	28.39	27.37
12	25.55	---	---	---	---	---	---	---	29.03	27.68	28.23	27.03
13	25.47	---	---	---	---	---	---	---	28.65	27.46	28.06	26.85
14	---	---	---	---	---	---	---	---	28.45	27.48	27.95	26.57
15	---	---	---	---	---	---	---	---	28.32	27.69	27.80	26.34
16	---	---	---	---	---	---	---	---	28.21	27.85	27.99	26.10
17	---	---	---	---	---	---	---	---	28.14	27.81	28.23	26.00
18	---	---	---	---	---	---	---	---	28.08	27.68	29.12	25.84
19	---	---	---	---	---	---	---	---	27.83	27.67	30.83	25.61
20	---	---	---	---	---	---	---	---	27.89	27.83	32.32	25.46
21	---	---	---	---	---	---	---	---	27.83	28.03	32.79	25.33
22	---	---	---	---	---	---	---	---	28.08	28.37	32.83	25.26
23	---	---	---	---	---	---	---	---	28.31	28.89	32.59	25.37
24	---	---	---	---	---	---	---	---	28.36	29.51	32.27	25.43
25	---	---	---	---	---	---	---	---	28.38	29.76	32.01	25.44
26	---	---	---	---	---	---	---	---	28.38	29.92	31.64	25.62
27	---	---	---	---	---	---	---	---	28.45	30.08	31.21	25.65
28	---	---	---	---	---	---	---	---	28.55	30.12	30.90	25.52
29	---	---	---	---	---	---	---	---	28.55	30.23	30.47	25.43
30	---	---	---	---	---	---	---	---	28.35	30.62	29.89	25.35
31	---	---	---	---	---	---	---	---	---	30.93	29.38	---
MEAN	---	---	---	---	---	---	---	---	---	28.50	30.25	26.60
MAX	---	---	---	---	---	---	---	---	---	30.93	32.83	28.96
MIN	---	---	---	---	---	---	---	---	---	27.46	27.80	25.26



# SOUTHWEST ALASKA

## 15304000 KUSKOKWIM RIVER AT CROOKED CREEK

LOCATION.--Lat 61°52'16", long 158°06'03", in NE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 32, T. 21 N., R. 48 W. (Sleetmute D-6 quad), Hydrologic Unit 19030501, on right bank at village of Crooked Creek, 0.1 mi upstream from Crooked Creek.

DRAINAGE AREA.--31,100 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--June 1951 to September 1994, October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above sea level, from topographic map. Prior to August 6, 1977, non-recording gage at site 1,600 ft upstream at same datum. From August 6, 1977, to September 30, 1991, water-stage recorder at site 2,300 ft upstream at same datum. From October 1, 1991 to September 30, 1994, and October 1, 1995 to August 7, 1997 non-recording gage.

REMARKS.--Records good except for estimated daily discharges, which are poor. GOES satellite telemetry at station.

### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76300	e29000	e22000	e16000	e12000	e11000	e9000	e30000	116000	75400	96700	81200
2	71300	e28000	e21000	e16000	e12000	e11000	e9000	e30000	113000	73300	97500	78100
3	67300	e28000	e21000	e16000	e12000	e11000	e9000	e28000	113000	71300	94000	74600
4	63800	e27000	e21000	e16000	e12000	e11000	e9000	e27000	113000	69500	91800	72200
5	60700	e27000	e21000	e16000	e12000	e11000	e9000	e27000	112000	68600	89800	71400
6	58700	e26000	e20000	e15000	e12000	e10000	e9500	e27000	114000	68100	85300	71800
7	57200	e26000	e20000	e15000	e12000	e10000	e9500	e27000	115000	68000	80700	74200
8	55200	e25000	e20000	e15000	e12000	e10000	e9500	e28000	117000	66600	76300	75500
9	52900	e25000	e20000	e15000	e12000	e10000	e9500	e30000	119000	64200	71700	73700
10	50600	e25000	e19000	e15000	e12000	e10000	e9500	e36000	118000	61900	68100	71600
11	48800	e26000	e19000	e15000	e12000	e10000	e9500	e42000	117000	61200	65300	69000
12	47600	e27000	e20000	e15000	e12000	e10000	e9500	e55000	116000	61700	62900	65700
13	46100	e27000	e20000	e15000	e12000	e10000	e10000	e60000	115000	63100	61000	62900
14	44400	e27000	e20000	e15000	e12000	e10000	e10000	e70000	112000	64200	60500	60400
15	41500	e27000	e20000	e14000	e12000	e10000	e10000	e75000	108000	64700	60200	58300
16	40900	e27000	e19000	e14000	e11000	e10000	e10000	e80000	104000	64900	62600	56000
17	40400	e27000	e19000	e14000	e11000	e10000	e11000	e90000	99100	65500	70600	54200
18	38800	e27000	e19000	e14000	e11000	e10000	e11000	e100000	94000	67000	82500	52700
19	39100	e26000	e20000	e14000	e11000	e10000	e11000	e110000	89000	69400	90500	51000
20	37500	e26000	e19000	e14000	e11000	e10000	e12000	118000	86300	70500	104000	49900
21	36300	e25000	e18000	e14000	e11000	e9500	e13000	122000	85700	72000	116000	48400
22	e36000	e25000	e18000	e14000	e11000	e9500	e14000	124000	85700	76100	122000	47300
23	e34000	e24000	e18000	e14000	e11000	e9500	e16000	123000	85800	79500	120000	46500
24	e34000	e24000	e18000	e13000	e11000	e9500	e17000	122000	86300	82600	114000	45600
25	e32000	e24000	e17000	e13000	e11000	e9500	e18000	121000	86300	87700	107000	44600
26	e32000	e23000	e17000	e13000	e11000	e9500	e20000	121000	85400	90900	103000	43600
27	e32000	e23000	e17000	e13000	e11000	e9500	e21000	119000	83300	92900	101000	42800
28	e30000	e23000	e17000	e13000	e11000	e9500	e23000	119000	81000	95200	96000	42500
29	e30000	e22000	e17000	e13000	---	e9500	e26000	120000	79300	95300	91900	42400
30	e30000	e22000	e17000	e13000	---	e9500	e28000	120000	77300	92500	86900	41000
31	e29000	---	e16000	e13000	---	e9500	---	119000	---	92400	83000	---
TOTAL	1394400	768000	590000	445000	323000	309500	392500	2420000	3026500	2296200	2712800	1769100
MEAN	44980	25600	19030	14350	11540	9984	13080	78060	100900	74070	87510	58970
MAX	76300	29000	22000	16000	12000	11000	28000	124000	119000	95300	122000	81200
MIN	29000	22000	16000	13000	11000	9500	9000	27000	77300	61200	60200	41000
AC-FT	2766000	1523000	1170000	882700	640700	613900	778500	4800000	6003000	4555000	5381000	3509000
CFSM	1.45	.82	.61	.46	.37	.32	.42	2.51	3.24	2.38	2.81	1.90
IN.	1.67	.92	.71	.53	.39	.37	.47	2.89	3.62	2.75	3.24	2.12

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)#

MEAN	44350	21300	15290	13020	11640	10720	14500	79880	82860	68170	76270	69430
MAX	102000	36400	25000	22450	20710	19550	41000	161700	235100	119500	169800	150900
(WY)	1994	1991	1962	1991	1991	1991	1967	1957	1964	1980	1963	1951
MIN	22650	12730	10000	8400	6900	6100	8600	22130	33880	40910	41840	30550
(WY)	1979	1981	1957	1966	1966	1966	1953	1964	1954	1997	1957	1976

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR WATER YEARS 1951 - 2001#
ANNUAL TOTAL	14941200	16447000	14941200	16447000	
ANNUAL MEAN	40820	45060	40820	45060	
HIGHEST ANNUAL MEAN			62120		1963
LOWEST ANNUAL MEAN			28600		1997
HIGHEST DAILY MEAN	110000	May 3	124000	May 22	391000 Jun 5 1964
LOWEST DAILY MEAN	a9600	Mar 16	b9000	Apr 1	c6100 Mar 1 1966
ANNUAL SEVEN-DAY MINIMUM	9600	Mar 16	9140	Mar 30	6100 Mar 1 1966
MAXIMUM PEAK FLOW			125000	May 23	392000 Jun 5 1964
MAXIMUM PEAK STAGE			11.49	May 23	
MAXIMUM PEAK STAGE			d12.70	May 17	f25.74 Jun 5 1964
INSTANTANEOUS LOW FLOW					6100 Mar 1 1966
ANNUAL RUNOFF (AC-FT)	29640000		32620000		30640000
ANNUAL RUNOFF (CFSM)	1.31		1.45		1.36
ANNUAL RUNOFF (INCHES)	17.87		19.67		18.48
10 PERCENT EXCEEDS	78500		102000		94000
50 PERCENT EXCEEDS	32000		28000		26000
90 PERCENT EXCEEDS	9800		10000		10000

- # See Period of Record, partial years used in monthly computations
- c Mar. 1-31, 1966
- a Mar. 16 to Mar. 31
- d From floodmarks, backwater from ice
- b Apr. 1 to Apr. 5
- e Estimated
- f From floodmarks, backwater from ice, at different site, same datum

# SOUTHWEST ALASKA

## 15304060 KUSKOKWIM RIVER AT ANIAK

LOCATION.--Lat 61°35'14", long 159°32'54", in SE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 2, T. 17 N., R. 57 W. (Russian Mission C-2 quad), Hydrologic unit 19030502, on the left bank near the NW corner of the west end of the runway in the village of Aniak.

### WATER-STAGE RECORDS

PERIOD OF RECORD.--May 1996 to present (no winter record).

GAGE.--Water-stage recorder. A supplementary stage gage was installed April 23, 1998 approximately 1 mi upstream from gage of record. This gage records water elevation at the Aniak city dike system during ice break-up events. Elevation of the gage is 75 ft above sea level from topographic map.

REMARKS.--GOES satellite telemetry at station. Supplementary stage records are available from the computer files of the Alaska District.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed 26.55 ft, July 12, 1998, but may have been higher during periods of missing record. Minimum gage height observed 15.33 ft, October 12, 1997, but may have been lower during periods of missing record.

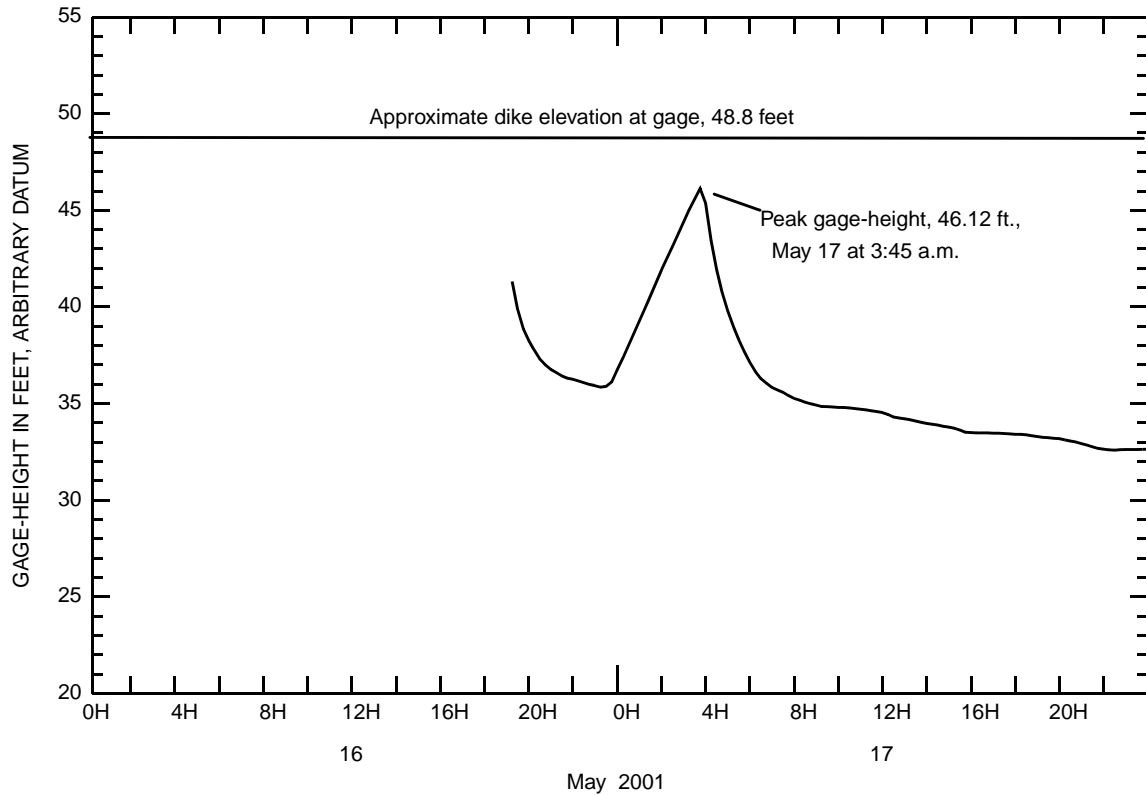
EXTREMES FOR CURRENT PERIOD.--October 1-29, 2000 and June 5 to September 30, 2001: Maximum gage height observed 24.11 ft, June 9, but may have been higher during periods of missing record. Minimum gage height observed 14.37 ft, Oct. 27, but may have been lower during periods of missing record.

### GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.74	---	---	---	---	---	---	---	---	20.01	20.84	20.62
2	18.31	---	---	---	---	---	---	---	---	19.83	21.05	20.75
3	17.96	---	---	---	---	---	---	---	---	19.66	20.93	20.40
4	17.68	---	---	---	---	---	---	---	---	19.55	20.68	20.12
5	17.48	---	---	---	---	---	---	---	23.24	19.44	20.51	19.94
6	17.30	---	---	---	---	---	---	---	23.41	19.33	20.28	19.90
7	17.12	---	---	---	---	---	---	---	23.59	19.24	19.97	20.00
8	16.92	---	---	---	---	---	---	---	23.82	---	19.65	20.12
9	16.77	---	---	---	---	---	---	---	24.07	---	19.32	20.01
10	16.64	---	---	---	---	---	---	---	23.97	---	19.01	19.80
11	16.47	---	---	---	---	---	---	---	23.77	18.70	18.74	19.61
12	16.28	---	---	---	---	---	---	---	23.60	18.77	18.52	19.36
13	16.03	---	---	---	---	---	---	---	23.40	18.90	18.35	19.09
14	15.96	---	---	---	---	---	---	---	23.11	18.99	18.25	18.86
15	15.87	---	---	---	---	---	---	---	22.77	19.03	18.24	18.65
16	15.61	---	---	---	---	---	---	---	22.45	19.07	18.41	18.44
17	15.45	---	---	---	---	---	---	---	22.16	19.14	18.70	18.23
18	15.39	---	---	---	---	---	---	---	21.85	19.14	19.44	18.09
19	15.20	---	---	---	---	---	---	---	21.51	19.26	20.21	17.94
20	15.22	---	---	---	---	---	---	---	21.23	19.53	21.00	17.68
21	15.15	---	---	---	---	---	---	---	21.08	19.64	22.19	17.67
22	15.12	---	---	---	---	---	---	---	21.03	19.75	22.84	17.55
23	15.06	---	---	---	---	---	---	---	20.99	19.96	22.91	17.48
24	14.84	---	---	---	---	---	---	---	21.00	20.13	22.44	17.39
25	14.65	---	---	---	---	---	---	---	20.98	20.33	22.03	17.28
26	14.63	---	---	---	---	---	---	---	20.89	20.61	21.63	17.16
27	14.62	---	---	---	---	---	---	---	20.72	20.77	21.49	17.06
28	14.48	---	---	---	---	---	---	---	20.49	20.89	21.31	16.97
29	14.56	---	---	---	---	---	---	---	20.30	20.96	20.99	16.90
30	---	---	---	---	---	---	---	---	20.16	20.86	20.84	16.79
31	---	---	---	---	---	---	---	---	---	20.75	20.54	---
MEAN	---	---	---	---	---	---	---	---	---	---	20.36	18.66
MAX	---	---	---	---	---	---	---	---	---	---	22.91	20.75
MIN	---	---	---	---	---	---	---	---	---	---	18.24	16.79

# SOUTHWEST ALASKA

15304060 KUSKOKWIM RIVER AT ANIAK--Continued



River ice break-up hydrograph for Kuskokwim River at Dike (supplementary gage) at Aniak, 2001.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 1998 to current year (seasonal).

INSTRUMENTATION.--Electronic water temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water temperature from sensor within 0.5°C. No water temperature record October 31-May 15 and July 8-9 when water level dropped below probe. No water temperature record from May 16-June 4 with probe broken by shifting ice. Partial water temperature record on Oct. 30, July 8, 10, 16-17, and August 3. A temperature cross section on September 20 found a variation of 1.0°C. Temperature from the sensor could not be compared with the cross section average for the river on September 20 because of a faulty sensor probe. The sensor probe gave faulty temperature record from August 4-September 30 and was not used.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum recorded, 15.5°C, July 22-24, 1998, may have been higher during periods of missing record; minimum, 0.0°C, May 14-15, 1999.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 14.5°C, July 28-29, August 1-2, may have been higher during periods of missing record; minimum recorded, 1.5°C, October 30, may have been lower during periods of missing record.

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	GAGE HEIGHT (FEET) (00065)	TEMPERATURE WATER (DEG C) (00010)	SAMPLING METHOD, CODES (82398)
SEP						
20...	1240	1600	10.0	17.38	7.5	10
20...	1242	1600	300	17.38	8.5	10
20...	1244	1600	600	17.38	8.5	10
20...	1246	1600	900	17.38	8.5	10
20...	1248	1600	1200	17.38	8.5	10

