15200280 GULKANA RIVER AT SOURDOUGH

LOCATION.--Lat 62°31′15″, long 145°31′51″, in SE¼ NE¼ sec. 35, T. 9 N., R. 2 W. (Gulkana C-4 quad), Hydrologic Unit 19020102, near left bank on downstream side of pier of Alyeska Pipeline Service Company bridge, 0.3 mi downstream from Sourdough Creek and 0.8 mi southwest of Sourdough.

DRAINAGE AREA.--1,770 mi^2.

PERIOD OF RECORD.--October 1972 to September 1978, May to September 1982, October 1988 to September 1993, May 1997 to current year.

REVISED RECORDS.--WRD AK-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,845.96 ft above sea level (levels of Alyeska Engineering).

REMARKS.--Records fair 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	2450	e1000	e700	e500	e400	e320	e340	e1100	3460	1140	2580	917
2	2190	e1000	e700	e500	e400	e320	e360	e1100	3350	1140	2560	1000
3	1950	e1000	e700	e500	e400	e320	e360	e1200	3260	1130	2230	1370
4	1890	e950	e700	e500	e400	e320	e360	e1200	3050	1090	2020	1790
5	1860	e950	e700	e500	e400	e320	e380	e1300	2850	1130	1930	1860
6	1880	e900	e650	e500	e380	e320	e400	e1400	2620	1410	1790	2260
7	1960	e900	e650	e500	e380	e320	e420	e1500	2530	1830	1640	2470
8	2000	e900	e650	e500	e380	e320	e420	e1600	2520	1920	1520	2290
9	1860	e900	e650	e500	e380	e320	e440	e1700	2500	2120	1420	2080
10	1710	e900	e650	e500	e380	e320	e440	e1800	2340	2140	1330	1890
11	1700	e850	e600	e480	e360	e320	e460	e1900	2220	1960	1270	1740
12	1700	e850	e600	e480	e360	e320	e480	e1900	2130	1830	1220	1620
13	1690	e850	e600	e480	e360	e300	e500	1970	2080	1690	1170	1570
14	1660	e850	e600	e480	e360	e300	e500	2230	2100	1560	1110	1550
15	1660	e850	e600	e480	e360	e300	e550	2730	2050	1510	1080	1520
16	1540	e800	e600	e460	e340	e300	e550	3410	1960	1520	1040	1460
17	1430	e800	e600	e460	e340	e300	e600	3710	1850	1440	1040	1400
18	1370	e800	e600	e460	e340	e300	e600	3930	1740	1350	1070	1350
19	e1300	e800	e600	e460	e340	e300	e650	4080	1670	1270	1040	1310
20	e1300	e800	e600	e460	e340	e300	e650	4150	1650	1200	1040	1290
21	e1200	e750	e550	e440	e320	e300	e700	4010	1690	1180	1010	1310
22	e1200	e750	e550	e440	e320	e300	e700	3740	1620	1170	978	1310
23	e1100	e750	e550	e440	e320	e300	e750	3620	1540	1120	925	1320
24	e1100	e750	e550	e440	e320	e300	e750	4150	1460	1150	947	1290
25	e1100	e750	e550	e440	e320	e300	e800	4930	1360	1220	1010	1270
26	e1100	e700	e550	e420	e320	e300	e850	4780	1290	1310	1010	1240
27	e1100	e700	e550	e420	e320	e300	e850	4280	1220	1470	1010	1200
28	e1100	e700	e550	e420	e320	e320	e900	4000	1190	1790	978	1170
29	e1000	e700	e550	e420	---	e320	e950	3960	1130	2080	977	1140
30	e1000	e700	e550	e420	---	e340	e1000	3800	1110	2260	962	1100
31	e1000	---	e550	e400	---	e340	---	3570	---	2360	954	---
TOTAL	47100	24900	18800	14400	9960	9660	17710	88750	61540	47490	40861	45087
MEAN	1519	830	606	465	356	312	590	2863	2051	1532	1318	1503
MAX	2450	1000	700	500	400	340	1000	4930	3460	2360	2580	2470
MIN	1000	700	550	400	320	300	340	1100	1110	1090	925	917
AC-FT	93420	49390	37290	28560	19760	19160	35130	176000	122100	94200	81050	89430
CFSM	.86	.47	.34	.26	.20	.18	.33	1.62	1.16	.87	.74	.85
IN.	.99	.52	.40	.30	.21	.20	.37	1.87	1.29	1.00	.86	.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)#

MEAN	997	552	407	344	304	299	481	3246	2779	1516	1289	1413
MAX	1877	1020	777	629	478	420	1344	5630	4969	2696	2821	4253
(WY)	1991	1989	1989	1989	1989	1992	1993	1989	1977	1992	1992	1990
MIN	437	287	208	200	200	200	227	875	1150	637	714	505
(WY)	1975	1976	1974	1974	1974	1974	2000	2000	1998	1976	1989	1974

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1973 - 2001#	
ANNUAL TOTAL	412582		426258			
ANNUAL MEAN	1127		1168		1139	
HIGHEST ANNUAL MEAN					1564	1992
LOWEST ANNUAL MEAN					658	1998
HIGHEST DAILY MEAN	4700	Jun 8	4930	May 25	12100	Sep 12 1990
LOWEST DAILY MEAN	a220	Apr 16	b300	Mar 13	c200	Dec 6 1973
ANNUAL SEVEN-DAY MINIMUM	220	Apr 16	300	Mar 13	200	Dec 6 1973
MAXIMUM PEAK FLOW			5090	May 25	d12700	Sep 12 1990
MAXIMUM PEAK STAGE			8.43	May 25	11.26	Sep 12 1990
MAXIMUM PEAK STAGE					f16.03	May 7 1976
ANNUAL RUNOFF (AC-FT)	818400		845500		825000	
ANNUAL RUNOFF (CFSM)	.64		.66		.64	
ANNUAL RUNOFF (INCHES)	8.67		8.96		8.74	
10 PERCENT EXCEEDS	2600		2230		2850	
50 PERCENT EXCEEDS	775		977		672	
90 PERCENT EXCEEDS	230		320		250	

\# See period of record, partial years used in monthly statistics
a Apr. 16-26
b Mar. 13-27
c Dec. 6, 1973 to Apr. 12, 1974
d From rating curve extended above 4,600 ft^3/s
e Estimated
f Backwater from ice

15215990 NICOLET CREEK NEAR CORDOVA

LOCATION.--Lat 60°31′09″, long 145°47′23″, in SW¼ SW¼ SE¼ sec. 32, T. 15 S., R. 3 W. (Cordova C-5 quad), Hydrologic Unit 19020201, on right bank 275 ft upstream from culvert for Whitshed Road, 475 ft upstream from mouth and 2.1 mi southwest of Cordova.

DRAINAGE AREA.--0.75 mi^2.

PERIOD OF RECORD.--Annual maximum, water years 1991-99. September 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 40 ft above sea level, from topographic map.

REMARKS.--Records good except for discharges greater than 60 ft^3/s, which are fair; and estimated daily discharges, which are poor.

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

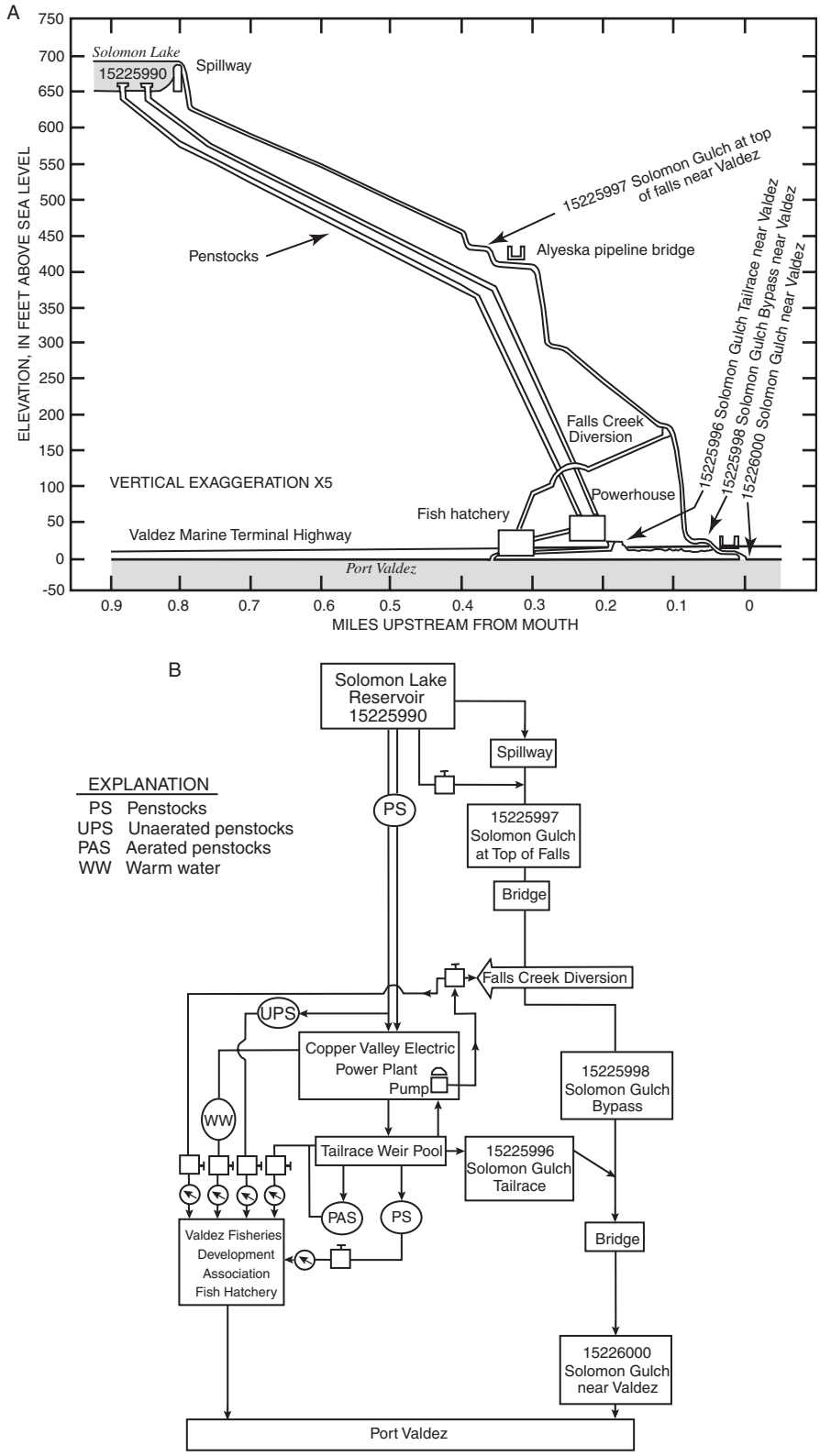
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	9.5	e3.0	e15	e25	e4.5	e1.0	7.8	5.7	.19	1.6	2.7
2	2.2	3.2	e2.5	e20	e4.0	e3.0	e1.0	27	5.5	.17	1.1	1.7
3	2.1	3.2	e2.0	e35	e3.0	e1.0	e5.5	31	4.8	.17	.95	2.0
4	2.0	2.4	e4.0	e30	e2.0	e2.5	e10	5.4	4.0	5.9	.93	33
5	60	2.3	e80	e9.5	e1.0	e3.0	e4.0	8.1	3.3	56	.78	14
6	58	2.2	e25	e35	e1.0	e8.0	e3.0	12	3.1	7.6	.68	2.8
7	23	4.8	e25	e80	e1.0	e9.5	e2.5	8.1	2.8	3.0	.60	5.2
8	9.8	2.8	e10	e35	e1.0	e4.0	e3.5	9.6	2.4	3.0	.56	3.5
9	4.5	3.9	e8.0	e12	e1.0	e15	e2.0	7.8	1.9	1.7	.53	3.1
10	18	61	e28	e4.5	e1.0	e10	e4.0	9.5	1.6	1.2	.47	1.7
11	17	42	e22	e4.0	e1.0	e50	e20	7.0	1.3	1.4	.40	1.6
12	24	3.0	e9.0	e10	e1.0	e35	e10	6.7	1.2	1.3	.37	16
13	35	14	e9.0	e25	e1.0	e5.0	e6.0	7.9	1.4	1.9	.34	38
14	54	35	e7.0	e80	e1.0	e4.5	e15	9.6	1.2	3.7	.29	24
15	41	3.4	e6.0	e50	e1.0	e10	e20	15	1.0	1.5	.31	3.5
16	34	15	e5.0	e7.0	e1.0	e10	e9.0	11	.80	1.2	.39	2.7
17	7.3	40	e10	e70	e1.0	e4.0	e9.0	7.8	.79	.97	.53	12
18	3.9	73	e15	e40	e1.0	e2.5	e7.0	7.3	.91	.80	.57	7.5
19	5.3	43	e20	e40	e2.0	e2.0	e6.0	10	.63	.68	7.9	3.8
20	2.9	13	e15	e9.5	e2.0	e1.7	e6.0	8.5	.46	39	15	3.8
21	2.4	52	e15	e10	e2.5	e1.6	e9.0	33	.44	18	2.0	2.9
22	43	7.4	e9.0	e15	e1.5	e1.6	e9.0	11	.44	36	1.2	11
23	9.3	9.1	e10	e10	e2.0	e1.5	e9.0	9.6	.36	6.7	.88	22
24	7.9	11	e15	e5.5	e1.5	e3.5	e10	14	.29	3.1	1.5	19
25	105	9.7	e15	e7.5	e4.0	e20	e25	14	.26	2.4	1.2	9.9
26	18	5.7	e30	e60	e20	e25	e20	7.0	.26	2.2	3.0	4.8
27	3.6	4.6	e25	e30	e70	e9.0	e25	6.6	.24	1.8	2.7	3.1
28	2.5	e4.0	e15	e8.5	e8.0	e3.0	10	7.2	.22	1.7	45	5.9
29	2.7	e4.0	e80	e6.5	---	e2.0	e6.5	6.4	.18	2.5	19	2.4
30	16	e3.5	e50	e6.5	---	e4.5	e6.5	7.1	.19	1.9	35	1.9
31	8.0	---	e50	e55	---	e4.0	---	6.2	---	2.7	8.2	---
TOTAL	624.8	487.7	619.5	826.0	161.5	260.9	274.5	339.2	47.67	210.38	153.98	265.5
MEAN	20.2	16.3	20.0	26.6	5.77	8.42	9.15	10.9	1.59	6.79	4.97	8.85
MAX	105	73	80	80	70	50	25	33	5.7	56	45	38
MIN	2.0	2.2	2.0	4.0	1.0	1.0	1.0	5.4	.18	.17	.29	1.6
AC-FT	1240	967	1230	1640	320	517	544	673	95	417	305	527
CFSM	26.9	21.7	26.6	35.5	7.69	11.2	12.2	14.6	2.12	9.05	6.62	11.8
IN.	30.99	24.19	30.73	40.97	8.01	12.94	13.62	16.82	2.36	10.43	7.64	13.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)#

MEAN	19.9	12.1	20.2	18.8	8.52	9.31	10.1	13.5	5.10	6.19	5.01	8.97
MAX	20.2	16.3	20.4	26.6	11.2	10.2	11.1	16.1	8.62	6.79	5.05	9.09
(WY)	2001	2001	2000	2001	2000	2000	2000	2000	2000	2001	2000	2000
MIN	19.6	7.85	20.0	10.9	5.77	8.42	9.15	10.9	1.59	5.59	4.97	8.85
(WY)	2000	2000	2001	2000	2001	2001	2001	2001	2001	2000	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001#	
ANNUAL TOTAL	4404.3		4271.63			
ANNUAL MEAN	12.0		11.7		11.5	
HIGHEST ANNUAL MEAN					11.7	2001
LOWEST ANNUAL MEAN					11.3	2000
HIGHEST DAILY MEAN	105	Oct 25	105	Oct 25	140	Dec 21 1999
LOWEST DAILY MEAN	a1.1	Jan 15	b.17	Jul 2	b.17	Jul 2 2001
ANNUAL SEVEN-DAY MINIMUM	1.3	Jan 12	.19	Jun 27	.19	Jun 27 2001
MAXIMUM PEAK FLOW			c202	Nov 11	df988	Nov 3 1994
MAXIMUM PEAK STAGE			c24.48	Nov 11	f19.60	Nov 3 1994
INSTANTANEOUS LOW FLOW			.16	Jul 2		
ANNUAL RUNOFF (AC-FT)	8740		8470		8340	
ANNUAL RUNOFF (CFSM)	16.0		15.6		15.4	
ANNUAL RUNOFF (INCHES)	218.45		211.87		208.61	
10 PERCENT EXCEEDS	32		35		32	
50 PERCENT EXCEEDS	6.4		5.5		5.5	
90 PERCENT EXCEEDS	1.6		.94		1.2	

\# See Period of Record and Remarks
a From Jan. 15 to Jan. 17 and Jul. 14
b Jul. 2 and 3
c May have been exceeded during period of gage malfunction from Nov. 28 to Apr. 30
d From rating curve extended above 66 ft^3/s on basis of slope-area measurement of peak flow
e Estimated
f Site and datum then in use



Solomon Gulch (A) profile and (B) schematic diagram of flows.

15225990 SOLOMON LAKE NEAR VALDEZ

LOCATION.--Lat 61°04′25″, long 146°18′08″, in NE¼ SW¼ sec. 21, T. 9 S.,R. 6 W.(Valdez A-7 SE quad), Hydrologic Unit 19020201, within Valdez Corporate boundary, at outlet of Solomon Lake, 0.7 mi upstream from mouth of Solomon Gulch, and 4.6 mi southeast of Valdez.

DRAINAGE AREA.--19.2 mi^2.

PERIOD OF RECORD.--October 1991 to current year. Additional unpublished records prior to period of record available from Copper Valley Electric Association and in station files of Geological Survey.

REMARKS.--Reservoir is formed by a rockfill dam at outlet of Solomon Lake. Reservoir is used for power; power-plant operation began January 6, 1982. Usable capacity is 31,500 acre-feet below spillway crest at 685 ft. Discharge released to the penstocks is accounted for at Solomon Gulch Tailrace (station 15225996). Releases through the dam to maintain minimum flows, spillway releases, and incremental flow are accounted for at the Solomon Gulch at top of falls gage (station 15225997).

COOPERATION.--Reservoir contents furnished by Copper Valley Electric Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 32,500 acre-ft, September 21, 1993, from crest-stage gage and rating extended above 31,500 acre-ft; minimum contents, 2,167 acre-ft, May 1, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 31,900 acre-ft July 5, July 21, and September 5; minimum contents, 2,180 acre-ft, May 8.

MONTH END RESERVOIR ELEVATION, IN FEET, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
SEP 30	684.5	30,100	----
OCT 31	677.6	26,200	-3,900
NOV 30	672.6	23,400	-2,800
DEC 31	666.8	20,400	-3,000
JAN 31	661.6	17,800	-2,600
FEB 28	651.2	13,100	-4,700
MAR 31	636.3	7,400	-5,700
APR 30	621.2	3,000	-4,400
MAY 31	634.2	6,700	+3,700
JUN 30	680.0	27,700	+21,000
JUL 31	685.3	31,600	+3,900
AUG 31	685.4	31,700	+100
SEP 30	683.0	29,800	-1,900
		CAL YR 2000	-2,900
		WTR YR 2001	-300

15225996 SOLOMON GULCH TAILRACE NEAR VALDEZ

LOCATION.--Lat 61°05′01″, long 146°18′10″, in NE¼ SE¼ SW¼ sec. 16, T. 9 S., R. 6 W. (Valdez A-7 SE quad), Hydrologic Unit 19020201, within Valdez Corporate boundary, on left wingwall of tailrace pool of Copper Valley Electric Association powerhouse facility, 350 ft upstream from mouth at Solomon Gulch, and 3.8 mi southeast of Valdez.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1986 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 40 ft above sea level, from topographic map.

REMARKS.--Records good. Discharge shown herein is flow through the Solomon Gulch Power Plant turbines. Solomon Lake, 0.8 mi upstream, supplies water to the power-plant through two 48-in. diameter penstocks. Water for the fish hatchery, diverted upstream from the gage, is not included in these published daily values. Annual mean discharge for these diversions for 2001 water year was 12.4 ft^3/s.

COOPERATION.--Records of daily discharge diverted to the fish hatchery are furnished by Valdez Fisheries Development Association. Copper Valley Electric Association provides tables of hourly power output through the turbines.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 293 ft^3/s, January 2 and 3, 1992, gage height, 3.04 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 245 ft^3/s, June 6, gage height, 2.97 ft; no flow for periods on May 10, and May 21.

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	178	64	62	54	77	86	64	57	200	187	180	189
2	190	75	60	55	67	83	66	58	195	197	189	188
3	192	67	71	60	66	112	86	60	196	197	183	187
4	189	68	64	68	70	110	81	71	202	195	179	193
5	199	64	70	66	75	107	85	72	206	204	171	197
6	187	65	68	71	98	106	84	72	209	204	189	196
7	174	70	68	69	99	109	79	75	153	158	187	196
8	172	69	68	66	99	82	81	21	192	188	196	180
9	181	65	57	73	105	82	80	1.0	195	172	145	172
10	189	58	56	68	97	85	82	4.6	194	171	196	184
11	141	59	54	58	84	84	84	38	201	176	189	189
12	102	61	54	54	86	86	91	38	158	174	191	190
13	102	66	58	74	75	103	90	47	202	185	176	191
14	159	61	61	65	81	105	105	54	204	197	202	140
15	182	57	72	69	87	107	79	62	202	198	202	174
16	192	57	68	56	105	107	66	64	196	201	200	175
17	192	53	68	67	115	103	53	70	196	202	197	182
18	197	56	68	56	112	109	58	80	198	193	197	172
19	197	60	65	55	115	93	60	89	200	193	187	163
20	196	55	57	61	92	87	59	87	204	189	201	141
21	197	56	53	69	83	102	59	46	204	184	202	125
22	198	63	56	67	102	112	64	68	199	182	200	164
23	204	79	55	68	109	106	65	95	200	187	202	168
24	153	67	57	71	106	101	65	209	199	180	200	138
25	152	67	56	66	113	95	75	207	201	183	189	116
26	108	69	66	65	107	97	58	207	200	176	193	117
27	58	65	65	84	85	94	63	198	201	178	203	130
28	63	66	63	85	80	86	59	197	198	176	205	157
29	66	65	59	98	---	89	56	209	196	182	203	173
30	77	66	65	91	---	64	57	202	191	183	204	176
31	79	---	54	90	---	63	---	201	---	176	198	---
TOTAL	4866	1913	1918	2119	2590	2955	2154	2959.6	5892	5768	5956	5063
MEAN	157	63.8	61.9	68.4	92.5	95.3	71.8	95.5	196	186	192	169
MAX	204	79	72	98	115	112	105	209	209	204	205	197
MIN	58	53	53	54	66	63	53	1.0	153	158	145	116
AC-FT	9650	3790	3800	4200	5140	5860	4270	5870	11690	11440	11810	10040

CAL YR 2000 TOTAL 45455 MEAN 124 MAX 231 MIN 39 AC-FT 90160
WTR YR 2001 TOTAL 44153.6 MEAN 121 MAX 209 MIN 1.0 AC-FT 87580

15225997 SOLOMON GULCH AT TOP OF FALLS NEAR VALDEZ

LOCATION.--Lat 61°04′45″, long 146°18′11″, in SE¼ NE¼ NW¼ sec. 21, T. 9 S., R. 6 W. (Valdez A-7 SE quad), Hydrologic Unit 19020201, within Valdez Corporate boundary, on right bank, 72 ft above Alyeska Pipeline Service Company Bridge, 150 ft upstream from top of falls, 0.3 mi upstream from mouth, and 4.2 mi southeast of Valdez.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1986 to current year.

REVISED RECORDS.--WDR AK-00-1: 1999.

GAGE.--Water-stage recorder. Elevation of gage is 400 ft above sea level, from topographic map. Prior to October 1, 1991, discharge computed for site 150 ft downstream at datum 72.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Discharge shown herein represents controlled releases from bypass valve and flow over the spillway of dam at Solomon Lake, 0.5 mi upstream, plus inflow between the spillway and the gage. Spillway crest elevation is 685 ft above sea level, from construction plans. Water for power generation is diverted from Solomon Lake (see records for station 15225996). Water is diverted for fish hatchery use 1,150 ft downstream from gage. Reservoir spilled July 5 to August 10, August 13-26, August 28 to September 1, September 4-7, and September 14-15.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft^3/s, October 11, 1986, by computation of peak flow by several indirect measurement methods; gage height, 82.20 ft from water surface profiles for 1986 flood at top of falls and at datum 72.00 ft lower (12.90 ft from profile at present site and datum); minimum daily discharge, about 0.20 ft^3/s, January 23 to April 6, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 834 ft^3/s, September 5, gage height, 7.22 ft; minimum daily discharge, 1.4 ft^3/s, June 27.

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	4.2	4.2	5.9	8.8	5.3	e4.2	3.1	7.8	21	3.0	99	58
2	4.3	4.1	5.8	8.0	5.2	e4.4	3.2	6.2	23	3.1	98	16
3	4.3	3.9	4.7	7.9	5.0	4.5	3.6	4.7	22	3.5	138	6.7
4	3.9	4.0	4.6	7.6	5.0	4.4	3.3	3.7	18	3.6	121	87
5	9.7	4.1	6.6	6.3	5.0	4.4	3.2	3.1	18	172	100	722
6	25	4.7	7.1	5.8	4.8	4.4	2.9	3.0	23	454	75	306
7	13	4.7	6.1	22	4.7	4.5	3.1	3.0	14	393	66	78
8	7.5	4.7	5.8	12	4.7	4.5	3.2	4.7	15	318	47	17
9	5.9	4.7	5.7	8.2	4.6	4.4	3.2	6.4	15	214	50	5.4
10	5.7	5.4	5.8	7.4	4.5	4.4	3.1	6.8	14	223	29	5.3
11	5.9	11	5.9	7.1	4.7	e4.4	2.9	7.6	12	178	7.9	4.9
12	6.1	6.7	5.7	6.8	4.7	e4.4	2.8	7.7	9.4	154	5.3	4.6
13	7.4	6.1	5.7	6.7	4.7	e4.5	3.2	9.5	8.7	134	5.5	13
14	7.4	5.9	5.9	7.6	4.6	e4.5	3.4	12	8.2	131	38	85
15	7.3	5.4	5.9	22	4.4	4.5	3.5	15	7.8	153	29	67
16	6.3	5.3	6.0	12	4.2	4.4	3.7	18	8.0	124	19	12
17	5.7	5.3	5.9	8.6	4.2	4.3	3.6	14	7.0	140	19	5.6
18	5.4	9.6	6.0	10	4.1	e4.1	3.4	14	5.6	175	12	5.3
19	5.1	8.1	6.0	14	4.1	e4.0	4.2	19	5.1	172	24	5.2
20	4.9	7.9	6.0	8.8	4.2	e3.9	4.9	20	5.7	620	134	5.5
21	4.8	8.9	6.1	7.6	4.1	3.8	5.3	16	5.1	665	76	5.2
22	5.4	8.2	6.3	7.2	4.1	3.7	5.6	13	4.3	566	64	5.0
23	5.7	6.7	6.0	7.3	4.2	3.5	5.1	12	4.3	387	33	5.2
24	5.6	6.7	6.0	7.0	4.0	3.5	4.9	16	4.2	262	91	5.6
25	5.7	6.3	6.0	6.7	e4.0	3.4	5.2	16	3.8	189	77	5.4
26	5.7	6.0	6.0	6.4	e4.0	3.4	6.6	14	3.6	172	26	5.2
27	4.7	6.0	6.3	6.3	e4.1	3.5	9.1	19	3.0	151	7.4	5.0
28	4.0	5.9	6.3	6.0	e4.2	3.4	8.2	40	3.0	130	68	4.9
29	3.9	6.0	6.8	5.5	---	3.3	7.8	22	3.2	110	327	4.6
30	3.7	6.0	7.6	5.3	---	3.4	7.7	20	3.1	98	188	4.5
31	4.0	---	9.5	5.3	---	3.3	---	20	---	118	171	---
TOTAL	198.2	182.5	190.0	268.2	125.4	125.3	133.0	394.2	298.1	6616.2	2245.1	1560.1
MEAN	6.39	6.08	6.13	8.65	4.48	4.04	4.43	12.7	9.94	213	72.4	52.0
MAX	25	11	9.5	22	5.3	4.5	9.1	40	23	665	327	722
MIN	3.7	3.9	4.6	5.3	4.0	3.3	2.8	3.0	3.0	3.0	5.3	4.5
AC-FT	393	362	377	532	249	249	264	782	591	13120	4450	3090

CAL YR 2000 TOTAL 7257.5 MEAN 19.8 MAX 663 MIN 1.9 AC-FT 14400
WTR YR 2001 TOTAL 12336.3 MEAN 33.8 MAX 722 MIN 2.8 AC-FT 24470

e Estimated

15226000 SOLOMON GULCH NEAR VALDEZ

LOCATION.--Lat 61°05′02″, long 146°18′13″, in NE¼ SE¼ SW¼ sec. 16, T. 9 S., R. 6 W. (Valdez A-7 SE quad), Hydrologic Unit 19020201, at bridge crossing at mouth and 3.8 mi southeast across Port Valdez from Valdez.

DRAINAGE AREA.--19.7 mi^2

PERIOD OF RECORD.--July to December 1948, October 1949 to September 1956, and September 1986 to current year.

GAGE.--Nonrecording gage. Elevation of gage is at sea level. July 9, 1948 to May 21, 1950, nonrecording gage, and May 22, 1950 to September 30, 1956, water-stage recorder at about present site and datum.

REMARKS.-- Records fair. Discharge data represent the flow at mouth which includes Solomon Gulch at top of falls (station 15225997), power plant tailrace (station 15225996), and all fish hatchery diversions. Water for power generation is diverted by a dam at Solomon Lake, 0.8 mi upstream. Water is diverted for the fish hatchery by a 24-in. penstock aeration system, and a 24-in. penstock line from the tailrace weir pool. An unaerated penstock and an 8-in. pipe for warm water supply are upstream. Additional water is diverted to the fish hatchery from Solomon Gulch bypass channel about 750 ft above gage, by means of a 12-in. diameter pipe. The fish hatchery discharges water directly into Port Valdez. Average daily diversion to fish hatchery for 2001 water year was 12.4 ft^3/s. Power generation began January 6, 1982.

COOPERATION.--Records of daily discharge diverted to the fish hatchery are furnished by Valdez Fisheries Development Association. Copper Valley Electric Association provides tables of hourly power output through the turbines and monthly storage values for Solomon Lake.

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	211	78	76	71	91	e98	74	69	221	190	305	272
2	223	89	74	71	81	e97	77	69	218	200	313	229
3	225	80	84	76	79	125	96	70	218	201	347	219
4	222	81	77	87	83	122	92	80	220	199	326	305
5	237	77	85	83	88	121	96	79	224	377	297	944
6	241	79	83	85	111	120	93	79	232	659	290	527
7	215	85	83	99	112	123	88	82	167	552	280	301
8	208	83	82	87	112	95	91	29	207	507	269	222
9	215	79	71	91	118	95	90	9.6	210	387	222	202
10	223	73	70	85	109	97	91	14	208	395	252	216
11	175	79	68	73	97	e97	93	48	213	357	223	220
12	136	77	68	69	99	e100	100	49	167	330	223	221
13	138	82	72	89	88	e116	99	60	211	321	208	230
14	197	76	75	81	94	e118	116	69	212	330	266	251
15	219	72	86	99	100	120	90	81	210	353	257	267
16	229	72	82	76	117	120	77	86	204	327	244	213
17	229	66	82	84	127	115	63	84	203	344	241	214
18	232	72	81	73	123	e120	69	94	204	370	234	204
19	216	75	78	76	126	e104	71	108	205	368	236	196
20	208	70	70	76	103	e98	71	107	210	833	360	174
21	209	72	66	83	94	114	71	571	209	873	303	158
22	211	78	69	81	113	124	75	81	204	772	289	196
23	217	92	68	82	120	117	76	107	205	598	260	200
24	166	80	70	85	117	111	75	225	203	466	316	171
25	165	80	69	79	e124	105	85	223	205	396	291	149
26	121	82	79	78	e118	107	69	221	204	372	244	150
27	70	78	78	97	e96	105	76	217	204	353	235	162
28	74	79	77	98	e91	96	71	237	201	330	298	190
29	77	78	73	110	---	99	68	231	199	316	555	205
30	88	79	80	103	---	74	68	295	194	306	417	208
31	91	---	73	103	---	72	---	221	---	320	394	---
TOTAL	5688	2343	2349	2630	2931	3325	2471	3995.6	6192	12702	8995	7416
MEAN	183	78.1	75.8	84.8	105	107	82.4	129	206	410	290	247
MAX	241	92	86	110	127	125	116	571	232	873	555	944
MIN	70	66	66	69	79	72	63	9.6	167	190	208	149
AC-FT	11280	4650	4660	5220	5810	6600	4900	7930	12280	25190	17840	14710

ADJUSTED FOR CHANGE IN STORAGE IN SOLOMON LAKE

MEAN	120	31.1	27.0	42.6	20.0	14.6	10.1	188	558	475	292	215
AC-FT	7380	1850	1660	2620	1110	900	600	11530	33180	29190	17940	12810
CFSM	6.09	1.58	1.37	2.16	1.01	0.74	0.51	9.52	28.30	24.10	14.81	10.93
IN	7.03	1.76	1.58	2.50	1.06	0.86	0.57	10.99	31.62	27.81	17.09	12.21

e Estimated

15226000 SOLOMON GULCH NEAR VALDEZ--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2001, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	184	102	96.6	97.6	92.9	81.4	72.3	153	182	275	298	344
MAX	310	140	116	138	130	120	106	213	229	410	462	501
(WY)	1987	1989	1987	1995	1987	1987	1998	1993	1990	2001	1993	1989
MIN	97.2	77.1	75.2	73.2	64.3	5.08	26.2	103	145	177	152	152
(WY)	1997	1993	1996	1997	1997	1991	1991	1992	1988	1991	1996	1996

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1986 - 2001#	
ANNUAL TOTAL	56773		61037.6			
ANNUAL MEAN	155		167		166	
ANNUAL MEAN	*149		*165		*166	
HIGHEST ANNUAL MEAN					197	1990
LOWEST ANNUAL MEAN					125	1996
HIGHEST DAILY MEAN	871	Aug 4	944	Sep 5	2270	Sep 24 1989
LOWEST DAILY MEAN	a49	Apr 26	9.6	May 9	1.0	Apr 12 1989
ANNUAL SEVEN-DAY MINIMUM	55	Apr 25	40	May 8	2.3	Mar 24 1991
MAXIMUM PEAK FLOW					2270	Sep 24 1989
ANNUAL RUNOFF (AC-FT)	112600		121100		120300	
ANNUAL RUNOFF (AC-FT)	*108700		*120800		*120300	
ANNUAL RUNOFF (CFSM)	*7.58		*8.43		*8.43	
ANNUAL RUNOFF (IN)	*103.59		*115.08		*114.43	
10 PERCENT EXCEEDS	241		314		294	
50 PERCENT EXCEEDS	128		112		124	
90 PERCENT EXCEEDS	70		72		71	

PRIOR TO CONSTRUCTION OF SOLOMON GULCH HYDROELECTRIC PROJECT

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1956, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	124	58.9	18.3	13.3	10.4	8.82	10.9	102	370	385	322	260
MAX	304	131	35.6	20.9	12.2	11.1	18.3	224	544	514	442	574
(WY)	1953	1953	1950	1956	1954	1953	1953	1953	1953	1955	1956	1951
MIN	48.0	21.7	4.00	1.40	3.57	7.19	6.57	36.5	261	277	254	126
(WY)	1951	1951	1949	1951	1951	1951	1950	1955	1951	1950	1950	1955

SUMMARY STATISTICS		WATER YEARS 1948 - 1956#	
ANNUAL MEAN	143		
HIGHEST ANNUAL MEAN	194		1953
LOWEST ANNUAL MEAN	126		1950
HIGHEST DAILY MEAN	1530	Sep 4	1951
LOWEST DAILY MEAN	.50	Dec 31	1950
ANNUAL SEVEN-DAY MINIMUM	1.0	Jan 10	1951
MAXIMUM PEAK FLOW	b2420	Sep 4	1951
MAXIMUM PEAK STAGE	c6.50	Sep 4	1951
INSTANTANEOUS LOW FLOW	d.00	Feb 20	1954
ANNUAL RUNOFF (AC-FT)	103900		
ANNUAL RUNOFF (CFSM)	7.28		
ANNUAL RUNOFF (INCHES)	98.89		
10 PERCENT EXCEEDS	396		
50 PERCENT EXCEEDS	49		
90 PERCENT EXCEEDS	8.0		

\# See Period of Record and Remarks. Values shown on this page are unadjusted for change in storage in Solomon Lake, unless otherwise noted
* Adjusted for change in storage in Solomon Lake
a Apr. 26 and 28
b From rating curve extended above 620 ft^3/s
c Site and datum then in use
d No flow sometime during period Feb. 20 to Mar. 3, 1954, caused by temporary storage upstream

15236900 WOLVERINE CREEK NEAR LAWING

LOCATION.--Lat 60°22′14″, long 148°53′48″, in NE¼ NE¼ sec. 10, T.3 N., R.3 E. (Seward B-6 quad), Kenai Peninsula Borough, Hydrologic Unit 19020202, on the left bank, about 0.1 mi downstream from terminus of Wolverine Glacier, 2.0 mi upstream from mouth, 16 mi east of Lawing, Alaska.

DRAINAGE AREA.--9.51 mi^2.

PERIOD OF RECORD.--October 1966 to September 1978, October 1980 to September 1981, May 1997 to September 1997, October 2000 to September 2001.

GAGE.--Water-stage recorder. Elevation of gage is 1,200 ft above sea level from topographic map.

REMARKS.--Records are poor. Large fluctuations from ice melt and alternate damming and storage releases during the melt season. Stream flow modified by Wolverine Glacier, which covers 6.8 mi^2, more than 70% of the drainage basin. Rain gage and air temperature recorder at station, daily values of precipitation and air temperature available from computer files of the Alaska District. GOES satellite telemetry at station. A recording of air temperature , wind speed , and precipitation gage at 3,250 ft elevation. plus three snow and ice balance measurement sites are located in the basin. Combined snow, ice, and water balances of the basin are published in other reports of the Geological Survey.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 550 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jun 1	2330	744	2.88	Jun 9	1645	618	2.69
Jun 2	1445	737	2.87	Jun 10	1045	592	2.65
Jun 3	0430	693	2.81	Jun 15	0315	1170	3.40
Jun 3	1015	3110	4.79	Aug 28	1545	*4160	*5.27
Jun 3	1930	618	2.69				

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	36	1.9	e.10	e.50	.00	.00	.00	e.00	84	295	314	567
2	24	1.6	e.00	e.10	.00	.00	.00	e.00	160	290	315	383
3	17	1.5	e.00	.11	.00	.00	.00	e.00	242	281	e300	295
4	14	e1.4	e.00	.00	.00	.00	.00	e.00	145	278	e300	275
5	28	1.3	e.00	.00	.00	.00	.00	.00	122	283	e300	255
6	64	1.2	e.00	.00	.00	.00	.00	e.00	136	285	e300	187
7	132	1.2	e.00	e.10	.00	.00	.00	e.00	114	290	e300	183
8	93	1.1	e.00	e.10	.00	.00	e.00	.00	123	274	316	146
9	32	1.1	.00	e.10	.00	.00	.00	.01	178	281	316	122
10	15	e1.0	.00	.10	.00	.00	.00	.01	185	270	315	110
11	12	e1.0	.00	.00	.00	.00	.00	.04	149	260	322	109
12	21	e.90	.00	e.00	.00	.00	.00	.36	140	279	337	268
13	36	e.90	.00	e.00	.00	.00	.00	.78	163	280	333	212
14	68	e.80	.00	.00	.00	.00	.00	1.7	226	292	335	158
15	19	e.80	.00	e.10	.00	.00	.00	2.8	243	278	324	134
16	21	e.70	.00	e.20	.00	.00	e.00	6.0	234	279	317	150
17	10	e.70	.00	e.50	.00	.00	e.00	7.1	232	293	310	234
18	7.3	e.60	.00	e1.0	.00	.00	.00	7.9	238	287	325	212
19	6.0	2.6	.00	e8.0	.00	.00	.00	11	264	287	323	186
20	4.8	10	.00	1.0	.00	.00	.00	14	244	268	346	158
21	4.4	44	.00	.13	.00	.00	.00	18	229	264	359	199
22	4.1	3.4	.00	.00	.00	.00	.00	14	263	276	341	147
23	3.9	1.4	.01	.00	.00	.00	.00	10	326	295	361	229
24	3.6	1.1	.33	.00	.00	.00	.00	11	281	313	330	324
25	3.1	.73	1.2	.00	.00	.00	.00	13	293	333	322	156
26	e3.0	e.40	.12	.00	.00	.00	.00	15	292	329	334	112
27	e3.0	e.20	.00	.00	.00	.00	.00	15	271	329	340	89
28	e2.5	e.14	.00	.00	.00	.00	.00	30	250	317	1930	88
29	e2.5	e.10	e10	.00	---	.00	.00	34	254	306	1680	91
30	e2.5	e.10	e3.0	.00	---	.00	.00	30	278	298	1490	57
31	2.2	---	e1.0	.00	---	.00	---	61	---	302	944	---
TOTAL	694.9	83.87	15.76	12.04	0.00	0.00	0.00	302.70	6359	8992	14779	5836
MEAN	22.4	2.80	.51	.39	.000	.000	.000	9.76	212	290	477	195
MAX	132	44	10	8.0	.00	.00	.00	61	326	333	1930	567
MIN	2.2	.10	.00	.00	.00	.00	.00	.00	84	260	300	57
AC-FT	1380	166	31	24	.00	.00	.00	600	12610	17840	29310	11580
CFSM	2.36	.29	.05	.04	.00	.00	.00	1.03	22.3	30.5	50.1	20.5
IN.	2.72	.33	.06	.05	.00	.00	.00	1.18	24.87	35.17	57.81	22.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2001, BY WATER YEAR (WY)#

MEAN	36.2	7.60	2.61	1.50	1.19	.96	1.20	20.0	135	293	345	198
MAX	114	27.4	5.48	2.71	2.00	2.00	2.27	89.3	262	375	494	351
(WY)	1970	1971	1970	1970	1970	1970	1981	1967	1967	1967	1981	1974
MIN	13.1	2.80	.51	.39	.000	.000	.000	.61	31.1	146	176	80.0
(WY)	1975	2001	2001	2001	2001	2001	2001	1971	1971	1997	1997	1970

\# See Period of Record; partial years used in monthly statistics
e Estimated

15236900 WOLVERINE CREEK NEAR LAWING--Continued

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1967 - 2001#	
ANNUAL TOTAL	37075.27			
ANNUAL MEAN	102		89.2	
HIGHEST ANNUAL MEAN			123	1967
LOWEST ANNUAL MEAN			66.6	1970
HIGHEST DAILY MEAN	1930	Aug 28	1930	Aug 28 2001
LOWEST DAILY MEAN	a.00	Dec 2	a.00	Dec 2 2000
ANNUAL SEVEN-DAY MINIMUM	.00	Dec 2	.00	Dec 2 2000
MAXIMUM PEAK FLOW	b4160	Aug 28	b4160	Aug 28 2001
MAXIMUM PEAK STAGE	5.27	Aug 28	c6.28	Aug 21 1981
ANNUAL RUNOFF (AC-FT)	73540		64590	
ANNUAL RUNOFF (CFSM)	10.7		9.37	
ANNUAL RUNOFF (INCHES)	145.03		127.37	
10 PERCENT EXCEEDS	304		312	
50 PERCENT EXCEEDS	1.4		6.0	
90 PERCENT EXCEEDS	.00		1.0	

\# See Period of Record; partial years used in monthly statistics
a No flow most days during winter
b From rating curve extended above 1,290 ft^3/s
c From floodmarks, date approximate: flow over dense snow

15237730 GROUSE CREEK AT GROUSE LAKE OUTLET NEAR SEWARD

LOCATION.--Lat 60°11'54", long 149°22'24", in NE¼ NE¼ NW¼ sec. 12, T. 1 N., R. 1 W. (Seward A-7 NE quad), Kenai Peninsula Borough, Hydrologic Unit 19020202, on right bank, 200 ft downstream from Grouse Lake outlet, 0.2 mi upstream from Seward Highway, 7 mi north of Seward.

DRAINAGE AREA.--6.22 mi^2.

PERIOD OF RECORD.--June 1997 to present.

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

REMARKS.--No estimated daily discharges. Records good. Rain gage recorder at station. GOES satellite telemetry and phone modem 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	7.7	13	27	55	18	14	9.3	35	78	31	11	33
2	7.3	12	19	45	16	12	9.3	33	81	28	10	26
3	7.2	11	19	38	15	11	9.8	31	84	25	10	21
4	7.1	11	18	33	15	11	11	26	78	24	10	19
5	8.1	10	34	25	15	12	9.7	21	69	28	9.9	19
6	10	10	36	21	14	13	9.3	19	65	23	9.5	16
7	14	9.7	31	57	14	13	9.1	20	57	19	9.2	16
8	16	9.4	24	58	13	12	9.1	24	53	18	9.0	14
9	13	10	19	47	12	12	9.1	28	56	17	8.8	13
10	12	27	18	38	11	12	9.2	28	58	16	8.6	13
11	11	49	17	34	12	13	11	29	59	16	8.5	12
12	12	35	15	33	12	16	11	31	55	15	8.2	13
13	11	31	14	30	11	15	11	33	51	15	8.0	25
14	34	34	13	57	9.8	15	10	36	50	15	7.9	34
15	26	27	12	173	11	15	11	41	51	14	7.9	24
16	32	27	11	88	10	15	11	45	53	14	8.3	19
17	31	32	11	74	10	14	12	47	53	13	8.5	18
18	23	49	13	144	9.5	13	12	49	49	12	10	17
19	18	93	12	205	9.7	12	12	51	45	15	9.9	18
20	16	108	14	100	9.4	12	13	58	43	30	17	16
21	15	97	18	70	9.1	12	14	59	41	18	14	14
22	16	94	14	63	8.9	11	15	57	41	17	12	13
23	16	63	13	55	8.2	11	16	55	44	15	11	21
24	14	54	13	47	8.3	11	16	55	44	14	10	52
25	32	46	15	41	9.1	11	18	55	41	13	9.9	40
26	30	39	32	38	9.9	11	21	53	41	13	9.5	33
27	22	33	34	34	19	11	25	52	40	12	9.3	27
28	18	35	34	29	17	10	32	60	39	12	36	22
29	16	39	75	24	---	9.9	35	70	37	11	49	19
30	15	33	97	21	---	10	36	72	34	11	49	17
31	14	---	76	20	---	10	---	75	---	12	42	---
TOTAL	524.4	1141.1	798	1797	336.9	379.9	436.9	1348	1590	536	441.9	644
MEAN	16.9	38.0	25.7	58.0	12.0	12.3	14.6	43.5	53.0	17.3	14.3	21.5
MAX	34	108	97	205	19	16	36	75	84	31	49	52
MIN	7.1	9.4	11	20	8.2	9.9	9.1	19	34	11	7.9	12
AC-FT	1040	2260	1580	3560	668	754	867	2670	3150	1060	877	1280
CFSM	2.72	6.12	4.14	9.32	1.93	1.97	2.34	6.99	8.52	2.78	2.29	3.45
IN.	3.14	6.82	4.77	10.75	2.01	2.27	2.61	8.06	9.51	3.21	2.64	3.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)#

MEAN	19.4	24.9	17.0	20.1	8.67	9.57	20.6	53.5	46.2	12.7	8.48	20.8
MAX	25.7	38.0	25.7	58.0	12.0	15.6	38.6	67.9	70.7	19.2	14.3	35.3
(WY)	2000	2001	2001	2001	2001	1998	1998	1998	1998	1998	2001	1997
MIN	11.8	12.4	8.89	5.23	3.34	2.69	7.65	43.5	12.6	6.11	6.04	6.66
(WY)	1998	2000	1999	1998	1999	1999	1999	2001	1997	1997	1999	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001#	
ANNUAL TOTAL	8088.3		9974.1			
ANNUAL MEAN	22.1		27.3		22.4	
HIGHEST ANNUAL MEAN					27.3	2001
LOWEST ANNUAL MEAN					16.3	1999
HIGHEST DAILY MEAN	108	Nov 20	205	Jan 19	205	Jan 19 2001
LOWEST DAILY MEAN	4.1	Sep 9	7.1	Oct 4	a2.1	Mar 9 1999
ANNUAL SEVEN-DAY MINIMUM	4.6	Sep 4	8.2	Aug 11	2.2	Mar 4 1999
MAXIMUM PEAK FLOW			269	Jan 19	269	Jan 19 2001
MAXIMUM PEAK STAGE			7.32	Jan 19	7.32	Jan 19 2001
INSTANTANEOUS LOW FLOW			6.9	Feb 23	b1.5	Apr 7 1999
ANNUAL RUNOFF (AC-FT)	16040		19780		16230	
ANNUAL RUNOFF (CFSM)	3.55		4.39		3.60	
ANNUAL RUNOFF (INCHES)	48.37		59.65		48.95	
10 PERCENT EXCEEDS	55		55		56	
50 PERCENT EXCEEDS	12		17		12	
90 PERCENT EXCEEDS	6.2		9.7		5.5	

\# See Period of Record, partial year used in monthly statistics
a Mar. 9 and 10, 1999
b From temporary blockage of channel upstream from gage

15238600 SPRUCE CREEK NEAR SEWARD

LOCATION.--Lat 60°04′10″, long 149°27′08″, in SW¼ SE¼ sec. 21, T. 1 S., R. 1 W. (Seward A-7 quad), Kenai Peninsula Borough, Hydrologic Unit 19020202, on left bank 0.7 mi upstream from mouth at Resurrection Bay and 2.4 mi south of Seward.

DRAINAGE AREA.--9.26 mi^2.

PERIOD OF RECORD.--September 1967 to September 1979, annual maximum, water years 1980-90. October 1990 to current year.

REVISED RECORDS.--WDR AK-76-1: 1966-67(M), 1970(M), 1972(M). WDR AK-77-1: 1969(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 75 ft above sea level, from topographic map.

REMARKS.--Records good, except January 8 to March 1 and April 25 to June 5, which are fair, and estimated daily discharges and discharges below 7.0 ft^3/s, which are poor. Precipitation gage at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 21, 1966, reached a stage of 10.1 ft, from floodmarks; discharge, 3,090 ft^3/s, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jul 19	20:00	1,060	6.25	Aug 28	15:30	*1,070	*6.26

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	24	21	31	48	12	17	3.1	23	190	323	175	232
2	22	19	25	31	11	14	2.8	21	222	309	195	183
3	20	18	27	23	9.7	12	7.7	18	240	267	160	147
4	22	16	25	19	9.2	10	7.4	15	206	222	153	344
5	38	16	87	16	9.0	11	6.3	13	177	318	149	239
6	192	15	55	e14	9.5	13	5.9	12	182	306	164	134
7	195	14	48	e20	9.1	11	5.4	11	170	274	146	109
8	101	14	34	e59	8.7	9.9	4.9	10	156	232	125	96
9	62	16	27	33	8.4	10	4.5	10	190	225	115	80
10	48	107	30	19	7.9	10	4.6	11	230	227	108	69
11	41	132	31	16	7.5	14	11	11	236	283	113	59
12	37	52	29	16	7.2	14	9.1	12	213	280	149	94
13	50	53	23	19	6.7	12	8.7	18	207	245	168	287
14	161	53	21	158	6.2	11	8.3	24	284	227	137	303
15	92	37	19	256	5.9	11	8.0	31	332	247	126	165
16	84	36	18	66	5.7	9.9	7.6	36	346	231	126	123
17	68	72	17	61	5.3	8.9	7.0	38	310	251	121	124
18	53	68	16	130	5.0	8.1	6.6	41	284	254	148	115
19	45	194	29	131	4.9	7.2	6.4	49	242	446	165	106
20	37	233	29	50	5.1	6.5	6.7	65	234	655	413	104
21	33	154	31	37	5.1	5.6	7.3	62	264	347	382	101
22	39	111	23	35	5.1	e5.0	8.3	60	303	294	296	88
23	37	71	21	28	4.9	4.6	9.2	54	469	226	180	290
24	36	56	22	23	4.9	4.1	10	59	600	203	146	276
25	153	45	27	22	5.5	3.7	12	65	506	189	168	140
26	53	36	52	22	8.9	3.8	14	58	633	196	168	98
27	39	31	44	22	30	3.9	15	56	642	197	166	79
28	32	73	36	16	24	3.6	19	85	600	175	518	73
29	28	72	160	14	---	3.5	20	102	501	147	428	68
30	25	43	121	13	---	e3.5	24	104	367	145	470	62
31	23	---	84	12	---	3.3	---	147	---	173	318	---
TOTAL	1890	1878	1242	1429	242.4	265.1	270.8	1321	9536	8114	6396	4388
MEAN	61.0	62.6	40.1	46.1	8.66	8.55	9.03	42.6	318	262	206	146
MAX	195	233	160	256	30	17	24	147	642	655	518	344
MIN	20	14	16	12	4.9	3.3	2.8	10	156	145	108	59
AC-FT	3750	3730	2460	2830	481	526	537	2620	18910	16090	12690	8700
CFSM	6.58	6.76	4.33	4.98	.93	.92	.97	4.60	34.3	28.3	22.3	15.8
IN.	7.59	7.54	4.99	5.74	.97	1.06	1.09	5.31	38.31	32.60	25.69	17.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2001, BY WATER YEAR (WY)#

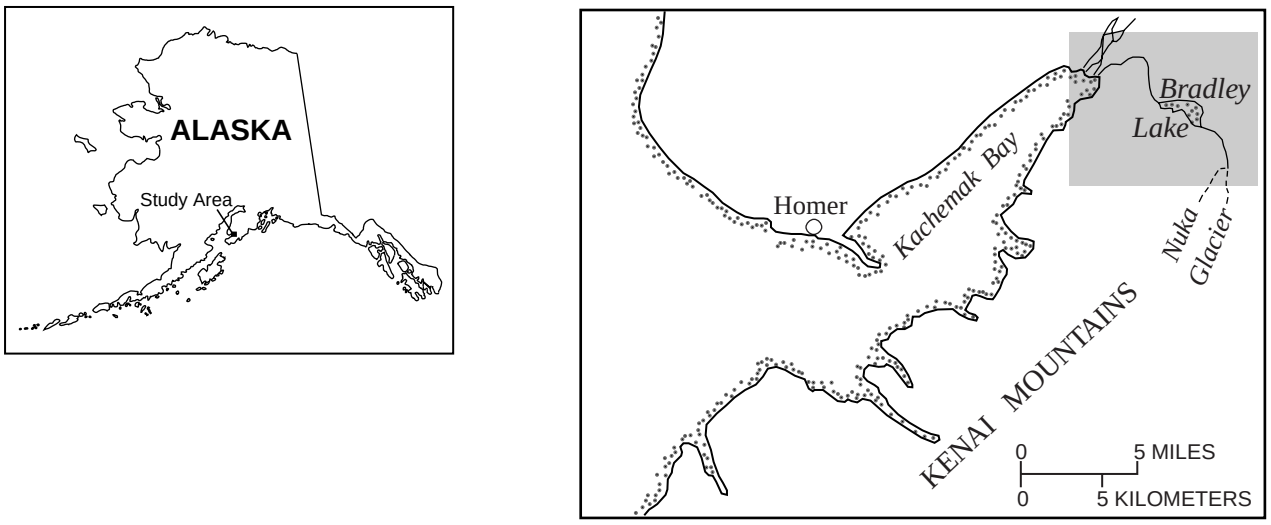
MEAN	86.2	37.4	16.3	10.6	9.76	4.06	12.7	72.2	203	193	150	170
MAX	333	129	51.1	46.1	46.6	15.3	35.6	135	318	371	323	372
(WY)	1970	1977	1970	2001	1994	1970	1969	1993	2001	1977	1977	1995
MIN	17.0	9.40	3.52	.65	.000	.000	.12	30.6	116	104	56.9	48.8
(WY)	1997	1974	1997	1974	1972	1971	1972	1971	1972	1997	1969	2000

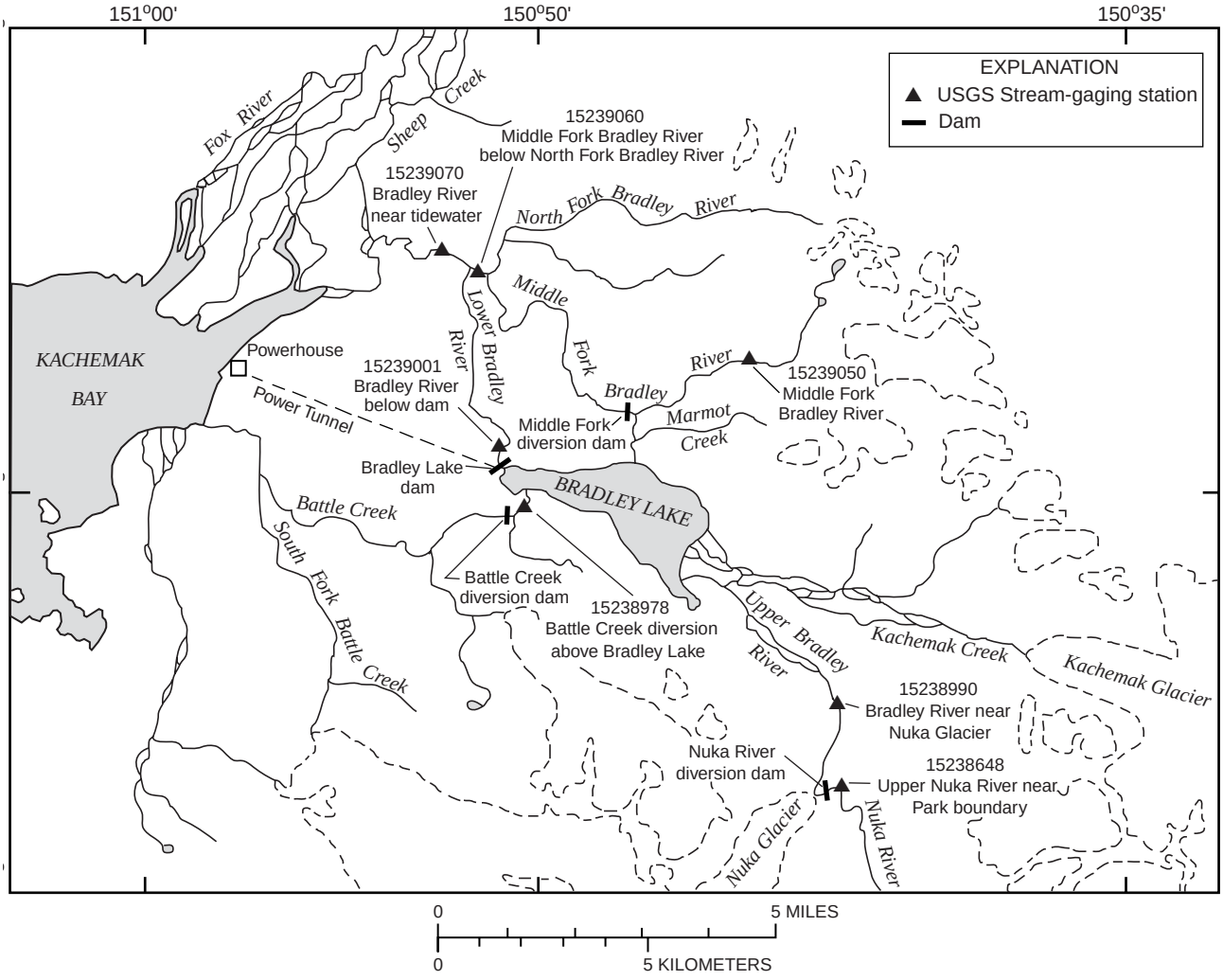
\# See Period of Record, partial year used in monthly statistics
e Estimated

15238600 SPRUCE CREEK NEAR SEWARD--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1967 - 2001#	
ANNUAL TOTAL	28948.8		36972.3			
ANNUAL MEAN	79.1		101		80.0	
HIGHEST ANNUAL MEAN					123	1977
LOWEST ANNUAL MEAN					50.6	1996
HIGHEST DAILY MEAN	697	Aug 2	655	Jul 20	1650	Oct 11 1969
LOWEST DAILY MEAN	2.1	Mar 12	2.8	Apr 2	a.00	Mar 1 1969
ANNUAL SEVEN-DAY MINIMUM	2.8	Mar 8	3.4	Mar 27	.00	Mar 1 1969
MAXIMUM PEAK FLOW			1070	Aug 28	b13600	Oct 11 1986
MAXIMUM PEAK STAGE			6.26	Aug 28	c13.96	Oct 11 1986
INSTANTANEOUS LOW FLOW			2.6	Apr 2	.00	Mar 1 1969
ANNUAL RUNOFF (AC-FT)	57420		73330		57970	
ANNUAL RUNOFF (CFSM)	8.54		10.9		8.64	
ANNUAL RUNOFF (INCHES)	116.30		148.53		117.40	
10 PERCENT EXCEEDS	222		275		210	
50 PERCENT EXCEEDS	38		43		34	
90 PERCENT EXCEEDS	6.0		6.9		1.5	

\# See Period of Record, partial year used in monthly statistics
a No flow many days in water years 1969, 1971-76, 1992, 1996, and 1999
b Slope-area measurement of the release of water temporarily stored behind a debris-avalanche dam. Inflow into the ponded area was 5,420 ft^3/s, from a slope-area measurement made about 0.3 mi upstream at a site with a drainage area of 8.98 mi^2
c From floodmarks





Location of the Bradley Lake Hydroelectric Project area.

15238648 UPPER NUKA RIVER NEAR PARK BOUNDARY NEAR HOMER

LOCATION.--Lat 59°41′04″, long 150°42′12″ (Seldovia C-2 quad), Kenai Peninsula Borough, Hydrologic Unit 19020202, on left bank, 0.4 mi downstream from terminus of Nuka Glacier, 4.9 mi southeast of Bradley Lake, and 29 mi east of Homer, Alaska.

DRAINAGE AREA.--Indeterminate. Prior to July 29, 1990, drainage area was about 3 mi^2 and varied according to position of glacier terminus.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1980-81, prior to shift in glacier terminus; September 1984 to current year. Records prior to July 29, 1990, are not equivalent. Published as "Upper Nuka River near Homer" prior to October 1989. Low-flow records not equivalent prior to November 1987 because most low-flow measurements were made at site 0.5 mi downstream.

REVISED RECORDS.--WDR AK-89-1: 1985 (M), 1986-88.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,300 ft above sea level, from topographic map.

REMARKS.--Records fair except estimated daily discharges, which are poor. Water is diverted, 300 ft upstream from gage, into Bradley River drainage since July 29, 1990. Precipitation gage and air temperature recorder at station; daily values of precipitation and air temperature are available from the computer files of the Alaska District. 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	6.6	4.1	e1.6	e.10	e.00	e.00	.00	e.00	e.00	e7.0	3.7	6.9
2	6.4	3.7	e1.4	e.10	e.00	e.00	.00	e.00	e.00	e6.0	3.8	6.5
3	6.3	3.9	e1.2	e.00	e.00	e.00	.00	e.00	e.10	e5.0	3.8	6.2
4	6.3	3.8	e1.0	e.00	e.00	e.00	.00	e.00	e.10	e5.0	3.7	6.8
5	7.0	3.5	e1.0	e.00	e.00	e.00	.00	e.00	e.10	e8.0	3.7	6.7
6	7.5	3.4	e.80	e.00	e.00	e.00	.00	e.00	e.10	e6.0	3.8	6.3
7	7.6	3.3	e.70	e.00	e.00	e.00	.00	e.00	e.10	e6.0	3.7	5.9
8	7.2	3.0	e.60	e.00	e.00	e.00	.00	e.00	e.10	e5.0	3.7	5.2
9	6.9	4.4	e.50	e.00	e.00	e.00	.00	e.00	e.10	e5.0	3.7	4.6
10	6.7	8.0	e.40	e.00	e.00	e.00	.00	e.00	e.10	e5.0	3.8	4.3
11	6.5	7.0	e.40	e.00	e.00	e.00	.00	e.00	e.10	e6.0	4.1	3.9
12	6.2	5.0	e.30	e.00	e.00	e.00	e.00	e.00	e.20	e5.0	4.5	5.3
13	6.4	5.0	e.30	e.00	e.00	e.00	e.00	e.00	e.20	e5.0	4.9	6.9
14	7.6	4.6	e.30	e.20	e.00	e.00	e.00	e.00	e.20	e6.0	5.2	6.7
15	7.0	3.5	e.20	e.30	e.00	e.00	e.00	e.00	e.30	e6.0	5.6	6.3
16	7.0	3.9	e.20	e.30	e.00	e.00	e.00	e.00	e.40	e5.0	6.0	5.9
17	6.6	5.2	e.20	e.20	e.00	e.00	e.00	e.00	e.50	e5.0	6.4	5.7
18	6.1	6.5	e.10	e.20	e.00	e.00	e.00	e.00	e.70	e10	7.1	5.2
19	5.0	7.8	e.10	e.20	e.00	e.00	e.00	e.00	e.90	e200	7.7	4.9
20	3.2	9.2	e.10	e.10	e.00	e.00	e.00	e.00	e1.2	e40	8.9	5.3
21	2.7	7.8	e.10	e.10	e.00	e.00	e.00	e.00	e1.6	4.5	8.4	6.5
22	2.9	6.7	e.00	e.10	e.00	e.00	e.00	.00	e2.1	4.4	7.9	5.9
23	3.3	5.0	e.00	e.00	e.00	e.00	e.00	.00	e3.0	4.3	7.1	6.4
24	2.9	3.7	e.00	e.00	e.00	e.00	e.00	e.00	e4.0	4.0	6.9	6.7
25	6.4	3.2	e.00	e.00	e.00	e.00	e.00	e.00	e5.5	3.9	6.8	5.5
26	4.6	3.0	e.00	e.00	e.00	e.00	e.00	e.00	e7.0	3.9	6.6	4.4
27	3.9	e2.6	e.00	e.00	e.00	e.00	e.00	e.00	e10	3.8	6.5	3.8
28	7.3	e2.4	e.00	e.00	e.00	e.00	e.00	e.00	e15	3.8	8.0	3.6
29	6.7	e2.2	e.40	e.00	---	e.00	e.00	e.00	e10	3.8	8.1	3.6
30	5.6	e2.0	e.30	e.00	---	.00	e.00	e.00	e8.0	3.7	8.1	3.2
31	5.4	---	e.20	e.00	---	e.00	---	e.00	---	3.7	7.6	---
TOTAL	181.8	137.4	12.40	1.90	0.00	0.00	0.00	0.00	71.70	389.8	179.8	165.1
MEAN	5.86	4.58	.40	.061	.000	.000	.000	.000	2.39	12.6	5.80	5.50
MAX	7.6	9.2	1.6	.30	.00	.00	.00	.00	15	200	8.9	6.9
MIN	2.7	2.0	.00	.00	.00	.00	.00	.00	.00	3.7	3.7	3.2
AC-FT	361	273	25	3.8	.00	.00	.00	.00	142	773	357	327

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)#

MEAN	2.98	1.61	.12	.035	.14	.000	.003	.69	27.5	37.3	17.6	10.4
MAX	5.86	6.45	.83	.16	1.56	.000	.015	2.73	209	272	53.1	31.9
(WY)	2001	1998	2000	1995	1994	1991	1991	1996	1999	1999	1998	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	1.06	2.96	.97	1.72
(WY)	1992	1992	1991	1991	1991	1991	1992	1998	1992	1991	1991	1991

\# See Period of Record and Remarks. Not adjusted to account for changes in drainage area
e Estimated

15238648 UPPER NUKA RIVER NEAR PARK BOUNDARY NEAR HOMER--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)#

MEAN	2.98	1.61	.12	.035	.14	.000	.003	.69	27.5	37.3	17.6	10.4
MAX	5.86	6.45	.83	.16	1.56	.000	.015	2.73	209	272	53.1	31.9
(WY)	2001	1998	2000	1995	1994	1991	1991	1996	1999	1999	1998	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	1.06	2.96	.97	1.72
(WY)	1992	1992	1991	1991	1991	1991	1992	1998	1992	1991	1991	1991

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001#	
ANNUAL TOTAL	1189.60		1139.90			
ANNUAL MEAN	3.25		3.12		8.24	
HIGHEST ANNUAL MEAN					a45.6	1999
LOWEST ANNUAL MEAN					1.09	1991
HIGHEST DAILY MEAN	17	Aug 14	e200	Jul 19	335	Jul 4 1999
LOWEST DAILY MEAN	b.00	Jan 1	c.00	Dec 22	d.00	Nov 3 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Dec 22	.00	Nov 3 1990
MAXIMUM PEAK FLOW					451	Jul 4 1999
MAXIMUM PEAK STAGE					4.30	Jul 4 1999
ANNUAL RUNOFF (AC-FT)	2360		2260		5970	
10 PERCENT EXCEEDS	7.5		6.9		11	
50 PERCENT EXCEEDS	1.6		.30		.10	
90 PERCENT EXCEEDS	.00		.00		.00	

PRIOR TO REGULATION AND DIVERSION OF NUKA RIVER

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1989, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	47.6	7.01	2.83	1.48	.49	.21	.22	23.8	34.7	141	180	131
MAX	72.0	24.9	9.00	5.79	2.24	.87	.72	117	81.2	307	432	321
(WY)	1987	1987	1987	1985	1985	1985	1985	1986	1989	1989	1989	1989
MIN	3.84	.024	.000	.000	.000	.000	.000	.016	.76	6.41	12.1	7.08
(WY)	1989	1989	1989	1989	1988	1988	1988	1987	1987	1988	1986	1988

SUMMARY STATISTICS	WATER YEARS 1985 - 1989#		
ANNUAL MEAN	47.9		
HIGHEST ANNUAL MEAN	96.2		1989
LOWEST ANNUAL MEAN	8.60		1988
HIGHEST DAILY MEAN	1240	Aug 25	1989
LOWEST DAILY MEAN	f.00	May 6	1987
ANNUAL SEVEN-DAY MINIMUM	.00	May 6	1987
INSTANTANEOUS PEAK FLOW	g1630	Aug 25	1989
INSTANTANEOUS PEAK STAGE	5.47	Aug 25	1989
ANNUAL RUNOFF (AC-FT)	34700		
10 PERCENT EXCEEDS	183		
50 PERCENT EXCEEDS	1.1		
90 PERCENT EXCEEDS	.00		

\# See Period of Record and Remarks. Not adjusted to account for changes in drainage area
a Diversion dam failed Jun. 17, 1999; repaired Sep. 25, 1999
b From Jan. 1 to May 11 and Dec. 22 to 28.
c From Dec. 22 - 28, Jan. 3 - 13, and Jan. 23 to Jun. 2
d No flow most days during winter
e Estimated
f No flow many days each year since 1987 during winter through Jun.
See Period of Record for remark on low-flow records
g From rating curve extended above 380 ft^3/s

15238978 BATTLE CREEK DIVERSION ABOVE BRADLEY LAKE NEAR HOMER

LOCATION.--Lat 59°44′45″, long 150°50′22″, in SW¼ NE¼ sec. 17, T. 5 S., R. 9 W. (Seldovia C-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on right bank 0.6 mi upstream from Bradley Lake and 25 mi east of Homer.

DRAINAGE AREA.--0.95 mi^2.

PERIOD OF RECORD.--August 1992 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,350 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. The entire flow of Battle Creek at the station has been diverted into Bradley Lake since October 1991.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 50 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul. 19	1645	*82	*6.63	Sep. 23	1830	50	6.08
Aug. 28	1500	51	6.10				

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	.54	.08	.05	.17	.00	.00	.00	e.02	3.7	21	11	8.9
2	.51	.04	.00	.02	.00	.00	.00	.01	4.5	18	12	7.0
3	.39	.02	.00	.00	.00	.00	.00	.00	7.4	17	13	6.3
4	.51	.00	.00	.00	.00	.00	.00	.00	6.3	17	12	13
5	1.6	.00	e.05	.00	.00	.00	.00	.00	5.3	18	10	12
6	8.7	.00	e.02	.00	.00	.00	.00	.00	5.3	19	9.6	7.0
7	9.8	.00	e.01	.95	.00	.00	.00	.00	5.1	17	11	5.2
8	4.5	.00	e.01	.59	.00	.00	.00	.00	5.7	15	17	4.0
9	2.9	.06	.00	.11	.00	.00	.00	.00	7.7	16	15	3.0
10	1.9	2.9	.00	.00	.00	.00	.00	.00	11	17	12	2.5
11	1.8	2.3	.00	.00	.00	.00	.00	.01	13	27	8.5	2.1
12	1.6	.84	.00	.00	.00	.00	.00	.09	14	26	9.7	4.5
13	6.4	1.3	.00	.00	.00	.00	.00	.16	13	17	11	18
14	14	1.2	.00	e.02	.00	.00	.00	.25	15	13	20	15
15	4.1	.45	.00	e.02	.00	.00	.00	.43	15	23	25	7.9
16	3.1	.35	.00	e.05	.00	.00	.00	.59	17	24	21	5.9
17	2.3	.31	.00	e.05	.00	.00	.00	.77	16	21	19	6.0
18	1.7	.34	.00	e.04	.00	.00	.00	.74	16	23	19	4.6
19	1.3	2.8	e.01	e.03	.00	.00	.00	.78	16	57	18	4.4
20	1.1	7.6	e.01	e.02	.00	.00	.00	1.0	17	50	28	6.9
21	.45	4.6	e.02	e.01	.00	.00	.00	.99	18	32	12	17
22	.61	2.1	.00	e.01	.00	.00	.00	.95	22	22	9.8	7.0
23	.74	1.0	.00	e.00	.00	.00	.00	1.0	24	16	8.7	22
24	.74	.61	e.02	.00	.00	.00	.00	1.1	25	13	11	28
25	4.5	.32	e.02	.00	.00	.00	.00	1.1	23	11	7.6	11
26	1.7	.10	e.02	.00	.00	.00	.00	1.0	28	10	5.9	7.2
27	.90	.00	e.03	.00	.00	.00	.00	1.0	30	11	5.9	5.3
28	.49	.51	.03	.00	.00	.00	.00	1.5	30	10	23	4.3
29	.32	.77	e1.0	.00	---	.00	.00	2.6	36	9.7	19	3.7
30	.27	.28	e5.0	.00	---	.00	.01	3.6	30	15	27	2.9
31	.18	---	.70	.00	---	.00	---	2.9	---	16	18	---
TOTAL	79.65	30.88	7.00	2.09	0.00	0.00	0.01	22.59	480.0	621.7	449.7	252.6
MEAN	2.57	1.03	.23	.067	.000	.000	.000	.73	16.0	20.1	14.5	8.42
MAX	14	7.6	5.0	.95	.00	.00	.01	3.6	36	57	28	28
MIN	.18	.00	.00	.00	.00	.00	.00	.00	3.7	9.7	5.9	2.1
AC-FT	158	61	14	4.1	.00	.00	.02	45	952	1230	892	501
CFSM	2.70	1.08	.24	.07	.00	.00	.00	.77	16.8	21.1	15.3	8.86
IN.	3.12	1.21	.27	.08	.00	.00	.00	.88	18.80	24.34	17.61	9.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)#

MEAN	2.57	1.06	.19	.041	.13	.002	.14	2.52	14.2	11.5	6.09	7.04
MAX	5.84	2.83	1.22	.19	.48	.015	.67	7.67	23.5	20.1	14.5	16.9
(WY)	1994	1998	2000	1995	1994	1998	1997	1993	1998	2001	2001	1995
MIN	.21	.009	.000	.000	.000	.000	.000	.21	5.55	1.83	.094	.91
(WY)	1997	2000	1996	1996	1996	1994	1999	1999	1996	1996	1996	1992

\# See Period of Record and Remarks, partial years used in monthly statistics
e Estimated

15238978 BATTLE CREEK DIVERSION ABOVE BRADLEY LAKE NEAR HOMER--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001#	
ANNUAL TOTAL	1254.34		1946.22			
ANNUAL MEAN	3.43		5.33		3.86	
HIGHEST ANNUAL MEAN					5.34	1998
LOWEST ANNUAL MEAN					1.23	1996
HIGHEST DAILY MEAN	41	Aug 2	57	Jul 19	104	Sep 20 1995
LOWEST DAILY MEAN	a.00	Jan 1	a.00	Nov 4	b.00	Jun 3 1992
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Dec 9	.00	Jan 11 1993
MAXIMUM PEAK FLOW			82	Jul 19	134	Sep 20 1995
MAXIMUM PEAK STAGE			6.63	Jul 19	7.32	Sep 20 1995
MAXIMUM PEAK STAGE					c8.09	May 20 1999
ANNUAL RUNOFF (AC-FT)	2490		3860		2800	
ANNUAL RUNOFF (CFSM)	3.61		5.61		4.06	
ANNUAL RUNOFF (INCHES)	49.12		76.21		55.19	
10 PERCENT EXCEEDS	15		18		13	
50 PERCENT EXCEEDS	.26		.45		.34	
90 PERCENT EXCEEDS	.00		.00		.00	

\# See Period of Record and Remarks, partial years used in monthly statistics
a No flow many days during the winter
b No flow many days most winters, and Jun. 3, 1992 (observation), Aug. 4, Aug. 5, Aug. 9, and Aug. 14 to Sept. 11, 1996
c Backwater from ice jam

15238990 UPPER BRADLEY RIVER NEAR NUKA GLACIER NEAR HOMER

LOCATION.--Lat 59°42′02″, long 150°42′09″, (Seldovia C-2 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on left bank 1.0 mi downstream from Nuka Glacier terminus, 2.7 mi upstream from confluence with Kachemak Creek, 3.7 mi southeast of Bradley Lake, and 29 mi east of Homer. Prior to July 22, 1991 at site 0.2 mi downstream.

DRAINAGE AREA.--Indeterminate. Prior to July 29, 1990, drainage area was about 10 mi^2 and varied according to position of glacier terminus.

PERIOD OF RECORD.--October 1979 to current year. Prior to October 1989, published as Upper Bradley River near Homer.

REVISED RECORDS.--WDR AK-86-1: 1980-85, WRD AK-96-1: 1991-95

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,250 ft above sea level, from topographic map. Prior to July 22, 1991 at site 0.2 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow diverted from Upper Nuka River into Upper Bradley River drainage since July 29, 1990. Air temperature recorder at station, daily values of air temperature available from the computer files of the Alaska District. 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	48	e17	e12	e10	e1.8	e.00	e.00	e.00	e70	758	514	509
2	40	17	e11	e8.0	e1.7	e.00	e.00	e.00	e100	743	537	444
3	32	17	e11	e6.5	e1.6	e.00	e.00	e.00	e130	711	496	396
4	48	e16	e10	e5.5	e1.5	e.00	e.00	e.00	e130	671	468	535
5	129	16	e10	e4.6	e1.0	e.00	e.00	e.00	e110	780	480	517
6	249	e15	e9.0	e4.6	e1.0	e.00	e.00	e.00	e100	901	489	358
7	261	15	e8.0	e4.6	e.50	e.00	e.00	e.00	e90	837	457	283
8	132	15	e7.5	e3.8	e.50	e.00	e.00	e.00	e100	768	451	225
9	68	33	e6.5	e3.4	e.00	e.00	e.00	e.00	e120	755	438	180
10	47	88	e6.0	e2.9	e.00	e.00	e.00	e.00	e140	745	427	161
11	37	46	e5.5	e2.5	e.00	e.00	e.00	e.00	e150	827	456	136
12	33	26	e5.0	e2.2	e.00	e.00	e.00	e.00	e170	874	544	295
13	72	30	e4.6	e2.0	e.00	e.00	e.00	e.00	e180	803	588	528
14	148	27	e4.2	e8.0	e.00	e.00	e.00	e.00	e200	762	564	468
15	74	22	e3.8	e10	e.00	e.00	e.00	e.50	e220	825	592	376
16	68	21	e3.6	e6.5	e.00	e.00	e.00	e.50	e250	851	580	314
17	43	20	e3.2	e6.0	e.00	e.00	e.00	e1.0	e290	893	569	329
18	33	22	e3.0	e8.0	e.00	e.00	e.00	e1.5	e320	915	673	286
19	28	90	e2.8	e6.5	e.00	e.00	e.00	e2.0	e360	1330	723	265
20	26	167	e2.7	e5.5	e.00	e.00	e.00	e3.0	e420	1160	999	356
21	25	79	e2.5	e4.8	e.00	e.00	e.00	e4.0	452	1060	832	456
22	24	45	e2.4	e4.4	e.00	e.00	e.00	e6.0	500	874	762	312
23	23	27	e2.2	e4.0	e.00	e.00	e.00	e8.0	637	709	543	458
24	31	23	e2.1	e5.0	e.00	e.00	e.00	e12	580	619	478	435
25	66	22	e2.0	e3.4	e.00	e.00	e.00	e18	524	569	444	220
26	28	e19	e1.9	e3.0	e.00	e.00	e.00	e24	706	537	411	171
27	24	e17	e1.8	e2.7	e.00	e.00	e.00	e28	889	520	426	136
28	25	e15	e1.8	e2.5	e.00	e.00	e.00	e36	1070	492	886	130
29	19	e13	e20	e2.3	---	e.00	e.00	e42	1010	449	995	128
30	19	e12	e17	e2.1	---	e.00	e.00	e44	885	450	975	103
31	e18	---	e12	e1.9	---	e.00	---	e50	---	480	686	---
TOTAL	1918	992	195.1	147.2	9.60	0.00	0.00	280.50	10903	23668	18483	9510
MEAN	61.9	33.1	6.29	4.75	.34	.000	.000	9.05	363	763	596	317
MAX	261	167	20	10	1.8	.00	.00	50	1070	1330	999	535
MIN	18	12	1.8	1.9	.00	.00	.00	.00	70	449	411	103
AC-FT	3800	1970	387	292	19	.00	.00	556	21630	46950	36660	18860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)#

MEAN	72.1	15.6	2.78	.56	.42	.000	.078	20.8	220	407	445	357
MAX	213	38.4	19.4	4.75	4.35	.000	.55	93.6	363	763	597	851
(WY)	1994	1998	2000	2001	1994	1991	1993	1993	2001	2001	1993	1995
MIN	12.9	2.39	.000	.000	.000	.000	.000	.008	94.4	106	293	117
(WY)	1997	2000	1995	1991	1991	1991	1992	1998	1999	1999	1998	1992

\# See Period of Record and Remarks. Not adjusted to account for changes in drainage area
e Estimated

15238990 UPPER BRADLEY RIVER NEAR NUKA GLACIER NEAR HOMER--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001#	
ANNUAL TOTAL	33915.30		66106.40			
ANNUAL MEAN	92.7		181		129	
HIGHEST ANNUAL MEAN					181	2001
LOWEST ANNUAL MEAN					91.1	1998
HIGHEST DAILY MEAN	1010	Aug 3	1330	Jul 19	a3600	Sep 21 1995
LOWEST DAILY MEAN	b.00	Jan 2	c.00	Feb 9	d.00	Dec 5 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 2	.00	Feb 9	.00	Dec 5 1990
MAXIMUM PEAK FLOW			2050	Jul 19	f4100	Sep 20 1995
MAXIMUM PEAK STAGE			13.85	Jul 19	g15.10	Sep 20 1995
ANNUAL RUNOFF (AC-FT)	67270		131100		93510	
10 PERCENT EXCEEDS	320		672		420	
50 PERCENT EXCEEDS	10		17		5.0	
90 PERCENT EXCEEDS	.00		.00		.00	

PRIOR TO DIVERSION FROM UPPER NUKA RIVER

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1989, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	106	22.8	10.2	4.67	1.74	1.35	1.29	38.3	161	290	349	292
MAX	279	75.7	54.6	15.1	4.82	6.50	4.67	92.0	270	458	595	673
(WY)	1980	1980	1987	1981	1981	1984	1981	1986	1988	1981	1986	1982
MIN	26.3	2.60	.50	.000	.000	.000	.000	.33	102	149	133	63.1
(WY)	1986	1988	1989	1989	1989	1989	1986	1987	1985	1985	1985	1983

SUMMARY STATISTICS	WATER YEARS 1980 - 1989 #	
ANNUAL MEAN	107	
HIGHEST ANNUAL MEAN	154	1986
LOWEST ANNUAL MEAN	49.6	1985
HIGHEST DAILY MEAN	1890	Aug 27 1986
LOWEST DAILY MEAN	d.00	Dec 25 1979
ANNUAL SEVEN-DAY MINIMUM	.00	Dec 25 1979
INSTANTANEOUS PEAK FLOW	h2530	Oct 10 1986
INSTANTANEOUS PEAK STAGE	i9.86	Oct 10 1986
ANNUAL RUNOFF (AC-FT)	77650	
10 PERCENT EXCEEDS	338	
50 PERCENT EXCEEDS	15	
90 PERCENT EXCEEDS	.50	

\# See Period of Record and Remarks. Not adjusted to account for changes in drainage area
a Estimated discharge, but may have been higher during period of no gage-height record, Sep. 21 to Sep. 22, 1995
b From Jan. 2 to May 2
c From Feb. 9 to May 14
d No flow in winter most years
f From rating curve extended above 400 ft^3/s on basis of slope-area measurement of peak flow
g From floodmarks
h From rating curve extended above 440 ft^3/s on basis of slope-area measurement of peak flow
i Site and datum then in use

15239000 BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°45′30″, long 150°51′02″, in SW¼ SE¼ NW¼ sec. 8, T. 5 S., R. 9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, about 1,300 ft downstream from Bradley Lake dam, 3.3 mi upstream from confluence with Middle Fork Bradley River, and 26 mi northeast of Homer.

DRAINAGE AREA.--About 65 mi^2 since July and August 1990, when additional water was diverted into the basin. Prior drainage area was about 54 mi^2.

PERIOD OF RECORD.--July to August 1955, October 1957 to September 1990 (discharge). October 1991 to current year (beginning month reservoir contents and monthly discharges).

REVISED RECORDS.--WSP 2136: 1960(M), 1965. WDR AK-77-1: 1958, 1961, 1963(M), 1966, 1967, 1970, 1972, 1974, 1976.

GAGE.--Nonrecording gage. Datum of gage is 1,054.16 ft above sea level (levels of dam-site survey for Alaska Power Authority). Totalizing flow meters on penstocks to two turbines in Bradley powerhouse. Lake-level sensor. July 13-22, 1955, non-recording lake gage at site 1 mi upstream and July 23 to August 5, 1955, at site 3 mi upstream at different datum. Prior to November 4, 1980, and April 29 to October 5, 1986, water-stage recorder at site 500 ft upstream at different datum and November 4, 1980 to April 28, 1986, water-stage recorder 1,300 ft upstream at different datum. April 29, 1986 to September 30, 1989, water-stage recorder at present site and datum.

REMARKS.--Reservoir is formed by an earthen dam with impermeable core and concrete face at the outlet of Bradley Lake. Construction began November 1986 and was completed in April 1991. Total and usable capacities below the spillway crest of 1,180 ft are 547,500 and 284,200 acre-ft, respectively. Reservoir is used for power. Discharge released through turbines is computed using totalizing flow meters; release flow enters Kachemak Bay and is not returned to stream. Spill, dam seepage, and fish-water bypass are measured at Bradley River below Dam (15239001) gage. Reservoir capacity table furnished by the Alaska Energy Authority.

COOPERATION.--Reservoir elevations and power generation discharge provided by the Homer Electric Association, for the Alaska Energy Authority.

AVERAGE DISCHARGE.--42 years (water years 1958 to 1989, and 1992 to current year), 453 ft^3/s, 328,200 acre-ft/yr. The inflow diversions from Middle Fork Bradley River and Battle Creek into the reservoir are excluded. Flow diverted from Upper Nuka River into Upper Bradley since July 29, 1990 was not measurable and is included in the following tabulations.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 549,400 acre-ft, October 1, 1991, elevation 1180.5 ft; minimum contents observed, 246,600 acre-ft, April 23, 1997, elevation 1069.3 ft. Maximum computed discharge, 8,800 ft^3/s, October 10, 1986, gage height, 10.90 ft from floodmarks, site and datum then in use. Maximum discharge, September 21-22, 1995 was probably higher, as indicated by extremes for period of record on these dates for other sites in the Bradley River basin; minimum daily, about 9.0 ft^3/s, December 7, 1986, result of power tunnel construction at dam site.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 534,500 acre-ft, September 26, elevation 1176.7 ft; minimum contents observed, 316,900 acre-ft, May 15, elevation 1106.9 ft.

BEGINNING OF MONTH RESERVOIR ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Oct 1	1,135.1	393,100	--
Nov 1	1,133.1	386,900	-6,200
Dec 1	1,130.6	379,200	-7,700
Jan 1	1,127.5	369,700	-9,500
Feb 1	1,125.2	362,600	-7,100
Mar 1	1,118.9	346,800	-15,800
Apr 1	1,111.2	327,600	-19,200
May 1	1,108.8	321,600	-6,000
Jun 1	1,109.4	323,100	+1,500
Jul 1	1,126.5	366,600	+43,500
Aug 1	1,150.7	441,500	+74,900
Sep 1	1,173.2	521,400	+79,900
Oct 1	1,175.4	529,400	+8,000
		CAL YR 2000	-37,300
		WTR YR 2001	+136,300

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

MONTH	CHANGE IN CONTENTS	POWER GENERATION	BRADLEY RIVER BELOW DAM 15239001	MIDDLE FORK BRADLEY RIVER 15239050	BATTLE CREEK DIVERSION 15238978	BRADLEY RIVER 15239000
OCT	-101	397	37.0	25.2	2.57	305
NOV	-129	403	25.2	33.6	1.03	264
DEC	-154	342	35.1	10.8	0.23	211
JAN	-116	358	33.8	8.47	0.07	268
FEB	-284	344	36.1	5.61	0.00	89.9
MAR	-312	340	36.8	4.93	0.00	59.5
APR	-101	136	35.3	4.42	0.00	65.5
MAY	+24	220	30.7	7.31	0.73	267
JUN	+731	560	0.40	117	16.0	1,160
JUL	+1,220	574	1.53	221	20.1	1,550
AUG	+1,300	582	21.3	204	14.5	1,680
SEP	+134	965	31.5	102	8.42	1,020
CAL YR 2000	-54	505	37.5	44.6	3.43	442
WTR YR 2001	+184	435	27.0	62.5	5.33	579

15239001 BRADLEY RIVER BELOW DAM NEAR HOMER

LOCATION.--Lat 59°45′30″, long 150°51′02″, in SW¼ SE¼ NW¼ sec. 8, T. 5 S., R. 9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on right bank about 1,300 ft downstream from Bradley Lake Dam, 3.3 mi upstream from Middle Fork Bradley River, and 26 mi northeast of Homer.

DRAINAGE AREA.--About 66 mi^2 since October 1991, when additional water was diverted into the basin. Prior drainage area was about 54 mi^2.

PERIOD OF RECORD.--October 1989 to current year. Prior to 1990 water year, records are equivalent to "Bradley River near Homer" (station no. 15239000).

GAGE.--Water-stage recorder. Datum of gage is 1,054.16 ft above sea level (levels of dam-site survey for Alaska Power Authority).

REMARKS.--No estimated daily discharges. Records fair. Nuka River and Middle Fork Bradley River were diverted into Bradley Lake, upstream from dam, beginning July 29 and August 7, 1990, respectively. Reservoir began filling April 26, 1991. Water has been diverted out of the basin through the turbines since hydro-power generation began on June 28, 1991. Battle Creek was diverted into reservoir in October 1991. Rain gage and air temperature recorder at station, daily values of precipitation and air temperature available from the computer files of the Alaska District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,450 ft^3/s September 21, 1990, gage height, 7.11 ft; minimum, 0.00 ft^3/s, from rating curve extended below 0.18 ft^3/s, most likely ponded water, but no measurable flow, June 9 and June 10, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 85 ft^3/s, August 6, gage height, 3.03 ft; minimum, 0.10 ft^3/s, July 13-15.

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	44	38	25	35	37	36	38	32	.79	.18	5.7	17
2	44	38	38	37	36	37	39	32	.75	.16	4.8	19
3	42	38	39	40	36	40	39	37	.86	.18	4.8	30
4	38	38	39	41	36	39	36	48	.65	.18	9.4	21
5	39	37	40	41	37	38	36	55	.56	.22	17	6.0
6	39	37	39	38	36	35	36	57	.53	.21	21	13
7	34	43	39	32	36	35	36	73	.44	.36	21	17
8	39	46	35	31	36	36	36	81	.41	.22	21	27
9	38	46	35	30	36	35	36	81	.45	.15	21	27
10	39	35	34	30	36	35	36	81	.43	.15	22	50
11	38	27	36	35	38	35	36	81	.41	.14	36	64
12	38	22	35	37	36	35	36	72	.39	.14	42	56
13	39	25	35	37	36	35	36	65	.36	.12	29	35
14	34	19	38	40	36	35	36	55	.35	.10	15	13
15	28	17	38	41	36	35	37	36	.38	.13	9.2	26
16	27	22	38	38	36	35	37	11	.38	.14	1.5	29
17	39	24	38	39	35	35	37	4.0	.39	.12	14	43
18	39	27	38	40	36	37	36	3.8	.34	.15	17	38
19	38	22	39	35	36	38	36	3.9	.28	.33	25	34
20	38	12	39	28	36	38	36	4.3	.28	6.4	12	49
21	38	11	38	24	36	38	37	3.9	.27	4.6	14	50
22	38	11	38	17	36	38	34	3.8	.26	.32	16	51
23	38	10	38	30	36	38	33	3.9	.74	.33	27	63
24	39	10	38	31	36	38	32	4.0	.22	.94	30	37
25	41	15	33	31	36	38	32	3.9	.19	.31	45	49
26	39	23	31	37	36	38	32	3.8	.20	1.4	56	47
27	38	23	31	30	36	38	32	3.9	.20	2.6	62	19
28	26	20	30	30	36	38	32	4.3	.19	.21	31	5.3
29	26	10	23	30	---	38	32	4.7	.21	5.9	11	5.3
30	31	9.8	20	30	---	38	32	1.9	.17	14	11	5.3
31	38	---	31	34	---	38	---	.72	---	7.0	9.6	---
TOTAL	1146	755.8	1088	1049	1011	1142	1059	951.82	12.08	47.39	661.0	945.9
MEAN	37.0	25.2	35.1	33.8	36.1	36.8	35.3	30.7	.40	1.53	21.3	31.5
MAX	44	46	40	41	38	40	39	81	.86	14	62	64
MIN	26	9.8	20	17	35	35	32	.72	.17	.10	1.5	5.3
AC-FT	2270	1500	2160	2080	2010	2270	2100	1890	24	94	1310	1880

CAL YR 2000 TOTAL 13735.13 MEAN 37.5 MAX 109 MIN .10 AC-FT 27240
WTR YR 2001 TOTAL 9868.99 MEAN 27.0 MAX 81 MIN .10 AC-FT 19580

15239050 MIDDLE FORK BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°46′42″, long 150°45′15″, in NW¼ NE¼ sec.2, T.5 S., R.9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on left bank 6.0 mi upstream from mouth and 27 mi east of Homer.

DRAINAGE AREA.--9.25 mi^2.

PERIOD OF RECORD.--October 1979 to current year. Published as Bradley River tributary near Homer prior to October 1989.

REVISED RECORDS.-- WDR AK-86-1: 1980(P), 1981-82(M), 1984(M). WRD AK-2000-1: 1995-1997.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,300 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Precipitation gage and air temperature recorder at station; daily values of air temperature and precipitation are available from the computer files of the Alaska District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 29	0330	368	8.32	Aug 20	0715	334	8.25
Jul 19	2045	*520	*8.59	Aug 28	1530	431	8.44

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	35	e8.5	e24	e9.0	e6.0	5.1	4.5	4.3	28	226	174	179
2	32	e8.5	e23	e8.0	5.8	5.1	4.7	4.2	38	209	181	156
3	30	e8.0	e20	7.4	5.8	5.1	4.7	4.1	47	193	173	146
4	29	e7.5	e18	7.4	5.9	5.3	4.5	4.0	46	178	162	178
5	38	e7.5	e16	7.2	6.1	5.4	4.5	4.0	40	188	159	186
6	40	e7.0	e16	e10	6.4	5.2	4.5	3.9	39	201	154	134
7	43	e7.0	e14	e12	5.8	5.1	4.4	3.9	37	194	156	106
8	39	e6.5	e12	e9.0	5.7	5.2	4.5	3.8	35	181	159	87
9	34	e6.5	e11	7.3	5.7	5.1	4.6	3.8	41	200	160	75
10	31	e10	e9.5	e6.5	5.7	5.1	4.6	3.8	45	203	156	67
11	28	e11	e8.5	e6.5	5.9	5.1	4.5	e3.8	48	219	146	61
12	26	e10	e8.0	e6.0	5.7	5.0	4.5	e4.0	50	216	154	80
13	31	e9.0	7.4	e6.0	5.6	4.9	4.4	e4.2	52	181	171	118
14	44	e8.0	8.4	e13	5.5	5.0	4.4	e4.4	60	174	203	127
15	35	e7.5	8.3	e14	5.6	5.0	4.4	e4.6	71	193	238	102
16	30	e7.0	7.6	e12	5.6	4.9	4.5	e4.8	89	198	256	88
17	26	e6.5	e7.5	11	5.5	4.9	4.5	e5.0	93	197	250	89
18	23	e6.0	e7.5	13	5.4	4.9	4.5	e5.5	92	203	266	87
19	22	e100	e7.5	9.6	5.4	4.9	4.5	e6.0	93	375	242	88
20	20	e120	e7.0	8.9	5.4	4.8	4.6	e6.5	109	460	305	89
21	e19	e130	e7.0	8.2	5.3	4.8	4.5	e7.0	124	423	254	100
22	18	e110	e7.0	7.4	5.3	4.8	4.2	e7.5	149	322	240	86
23	e16	e90	e7.0	7.4	5.3	4.8	4.2	e8.0	174	259	200	106
24	15	e75	7.1	8.4	5.2	4.8	4.1	e8.5	200	218	172	139
25	e13	e60	6.8	8.3	e5.0	4.7	4.2	e9.0	e230	197	153	94
26	e12	e50	6.7	e8.0	e6.0	4.8	4.2	e10	302	181	133	73
27	e12	e44	e6.5	6.6	5.4	4.7	4.2	11	291	176	129	61
28	e11	e38	e7.0	6.4	5.1	4.6	4.2	14	321	170	290	55
29	e10	e25	e15	e6.0	---	4.6	4.1	19	302	159	312	50
30	e9.5	e24	e12	e6.0	---	4.6	4.3	22	277	164	330	45
31	e9.0	---	e10	e6.0	---	4.6	---	22	---	179	258	---
TOTAL	780.5	1008.0	333.3	262.5	157.1	152.9	132.5	226.6	3523	6837	6336	3052
MEAN	25.2	33.6	10.8	8.47	5.61	4.93	4.42	7.31	117	221	204	102
MAX	44	130	24	14	6.4	5.4	4.7	22	321	460	330	186
MIN	9.0	6.0	6.5	6.0	5.0	4.6	4.1	3.8	28	159	129	45
AC-FT	1550	2000	661	521	312	303	263	449	6990	13560	12570	6050
CFSM	2.72	3.63	1.16	.92	.61	.53	.48	.79	12.7	23.8	22.1	11.0
IN.	3.14	4.05	1.34	1.06	.63	.61	.53	.91	14.17	27.50	25.48	12.27

e Estimated

15239050 MIDDLE FORK BRADLEY RIVER NEAR HOMER--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)#

MEAN	43.8	17.1	8.54	5.76	4.69	3.63	3.31	16.3	95.2	161	145
MAX	144	34.5	33.4	17.0	9.32	7.17	4.42	44.5	162	221	204
(WY)	1987	1980	1987	1981	1981	1981	2001	1990	1998	2001	2001
MIN	15.6	5.29	4.45	3.82	2.86	1.30	2.38	5.45	44.7	111	86.9
(WY)	1997	1985	1985	1991	1991	1986	1999	1987	1985	1996	1996

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL TOTAL	16340.7		22801.4			
ANNUAL MEAN	44.6		62.5		51.0	
HIGHEST ANNUAL MEAN					63.8	
LOWEST ANNUAL MEAN					34.6	
HIGHEST DAILY MEAN	389	Aug 3	460	Jul 20	966	Sep 20 1995
LOWEST DAILY MEAN	a2.5	Mar 28	b3.8	May 8	c1.1	Mar 28 1986
ANNUAL SEVEN-DAY MINIMUM	2.6	Mar 27	3.9	May 5	1.1	Mar 28 1986
MAXIMUM PEAK FLOW			520	Jul 19	1470	Sep 20 1995
MAXIMUM PEAK STAGE			8.59	Jul 19	d8.86	Sep 20 1995
MAXIMUM PEAK STAGE			f9.42	Jun 25	g16.16	May 12 1988
ANNUAL RUNOFF (AC-FT)	32410		45230		36950	
ANNUAL RUNOFF (CFSM)	4.83		6.75		5.51	
ANNUAL RUNOFF (INCHES)	65.72		91.70		74.91	
10 PERCENT EXCEEDS	133		197		153	
50 PERCENT EXCEEDS	10		11		12	
90 PERCENT EXCEEDS	3.1		4.5		3.2	

a From Mar. 28 to Apr. 2
b May 8-11
c From Mar. 28 to Apr. 10, 1986
d From recorded range in stage
f Backwater from snow bridge collapse
g Backwater from ice

15239060 MIDDLE FORK BRADLEY RIVER BELOW NORTH FORK BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°47′54″, long 150°51′48″, in SE¼ NE¼ SW¼ sec. 29, T. 4 S., R. 9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on left bank 100 ft upstream from confluence with the main stem Bradley River, 0.2 mi below the mouth of the North Fork Bradley River, 5.5 mi downstream from the Middle Fork Bradley River diversion dam, and 25 mi east of Homer.

DRAINAGE AREA.--24.8 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Water from upper Middle Fork Bradley River (15239050) is diverted into Bradley Lake at Middle Fork Bradley River diversion dam, located 5.5 mi upstream. Air temperature recorder at station, daily values of air temperature are available from the computer files of the Alaska District.

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	27	33	48	69	23	e10	e8.0	48	252	245	133	115
2	26	32	e46	53	23	e9.5	8.0	40	273	222	137	111
3	26	29	e44	46	22	e9.0	15	34	320	211	132	102
4	25	27	44	39	20	e9.0	12	31	299	188	123	111
5	30	27	92	36	18	e10	11	29	270	218	116	118
6	33	26	86	34	18	e12	10	26	264	240	110	99
7	46	25	69	114	17	e11	9.7	25	239	214	114	93
8	47	25	54	96	e16	e11	9.5	24	217	195	116	82
9	43	30	47	67	16	e10	9.2	25	229	186	112	73
10	40	88	43	49	e15	e11	10	28	242	185	107	66
11	37	90	40	47	15	e13	19	29	253	217	98	60
12	36	68	39	42	e14	e14	18	36	252	206	101	70
13	47	84	35	41	e12	e14	16	48	236	163	110	95
14	119	88	33	113	e11	e14	15	64	230	152	129	111
15	93	69	31	288	e11	e13	16	92	259	188	135	92
16	82	63	30	127	12	e13	15	111	295	191	133	83
17	69	69	28	149	12	13	15	119	304	181	125	78
18	57	73	32	217	11	13	16	120	294	196	130	76
19	49	143	37	155	12	e11	16	128	268	326	115	77
20	43	222	38	97	12	e10	19	156	255	325	157	71
21	37	179	40	76	12	e9.5	22	150	271	249	126	77
22	36	152	35	66	11	e8.5	30	134	295	197	123	67
23	34	105	34	50	e10	e8.5	35	133	302	165	108	102
24	37	84	33	39	e10	e8.5	33	148	304	148	97	204
25	132	67	35	40	e11	e8.5	32	158	286	139	87	141
26	85	51	41	35	e12	e8.5	31	149	298	132	77	111
27	66	47	41	37	e11	e8.5	32	150	329	137	72	94
28	50	86	38	32	e11	e8.5	36	190	340	140	149	85
29	47	91	173	29	---	8.5	38	269	342	136	151	76
30	39	67	176	27	---	8.3	44	266	298	138	160	66
31	38	---	98	25	---	8.2	---	228	---	141	143	---
TOTAL	1576	2240	1660	2335	398	324.5	600.4	3188	8316	5971	3726	2806
MEAN	50.8	74.7	53.5	75.3	14.2	10.5	20.0	103	277	193	120	93.5
MAX	132	222	176	288	23	14	44	269	342	326	160	204
MIN	25	25	28	25	10	8.2	8.0	24	217	132	72	60
AC-FT	3130	4440	3290	4630	789	644	1190	6320	16490	11840	7390	5570
CFSM	2.05	3.01	2.16	3.04	.57	.42	.81	4.15	11.2	7.77	4.85	3.77
IN.	2.36	3.36	2.49	3.50	.60	.49	.90	4.78	12.47	8.96	5.59	4.21

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

MEAN	47.8	51.0	20.7	19.4	11.4	9.95	23.4	110	201	114	51.6	78.4
MAX	75.4	96.3	53.5	75.3	16.7	20.7	36.4	131	277	193	120	116
(WY)	2000	1998	2001	2001	1998	1998	1998	1998	2001	2001	2001	1997
MIN	23.2	16.2	7.69	2.68	2.00	2.74	9.59	97.0	103	45.7	12.5	27.6
(WY)	1997	2000	1997	1999	1999	1999	1999	2000	1997	1997	1996	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001#	
ANNUAL TOTAL	20544.7		33140.9			
ANNUAL MEAN	56.1		90.8		63.0	
HIGHEST ANNUAL MEAN					90.8	2001
LOWEST ANNUAL MEAN					44.0	1997
HIGHEST DAILY MEAN	285	Jun 7	342	Jun 29	626	Nov 9 1997
LOWEST DAILY MEAN	a3.8	Jan 29	b8.0	Apr 1	c1.0	Feb 5 1999
ANNUAL SEVEN-DAY MINIMUM	3.9	Jan 28	8.3	Mar 27	1.0	Feb 5 1999
MAXIMUM PEAK FLOW			d432	Jul 19	d875	Nov 9 1997
MAXIMUM PEAK STAGE			11.61	Jul 19	13.64	Nov 9 1997
ANNUAL RUNOFF (AC-FT)	40750		65730		45610	
ANNUAL RUNOFF (CFSM)	2.26		3.66		2.54	
ANNUAL RUNOFF (INCHES)	30.82		49.71		34.49	
10 PERCENT EXCEEDS	146		229		159	
50 PERCENT EXCEEDS	34		64		31	
90 PERCENT EXCEEDS	5.5		11		5.5	

\# See Period of Record partial years used in monthly statistics
a From Jan. 29 to Feb. 1
b Apr. 1-2
c Feb. 5-12, 1999
d From rating curve extended above 50 ft^3/s on basis of comparison of instantaneous discharge of Bradley River below Dam (15239001) and instantaneous discharge of Bradley River near Tidewater (15239070)
e Estimated

15239070 BRADLEY RIVER NEAR TIDEWATER NEAR HOMER

LOCATION.--Lat 59°48′06″, long 150°52′58″, in SE¼ NE¼ sec. 30, T. 4 S., R. 9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on right bank 0.7 mi upstream from mouth, 0.8 mi downstream from Middle Fork Bradley River, 4.3 mi downstream from Bradley Lake outlet and dam site, and 25 mi east of Homer.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 25 ft above sea level, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Flow occasionally affected by high tides. Intermittent regulation during construction at the Bradley River dam site began in November 1986. Flow has been regulated since the reservoir began filling April 26, 1991. (See station 15239001.) Upper Nuka River was diverted into Upper Bradley River on July 29, 1990; flow from about 10 mi^2 of Middle Fork Bradley River upstream drainage has been seasonally diverted into the Bradley Lake reservoir since August 7, 1990. Battle Creek was diverted into the reservoir in October 1990. Water has been diverted out of the basin through the turbines since hydropower generation began June 28, 1991. Rain gage and air temperature recorder at station; daily values of precipitation and air temperature available from the computer files of the Alaska District.

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	80	84	e100	95	e65	e48	49	93	238	213	146	138
2	79	81	e95	80	e65	e48	47	83	262	194	150	135
3	76	77	e100	72	e60	e50	66	81	335	187	145	138
4	71	74	107	79	e60	e50	57	84	298	175	135	144
5	79	73	182	e100	e60	e50	55	92	254	195	139	128
6	84	71	163	116	e60	e48	52	90	246	209	135	112
7	96	74	147	161	e59	e48	51	107	221	191	139	113
8	101	79	117	148	e55	e48	51	117	204	180	143	111
9	96	89	103	110	e55	e48	50	110	213	174	137	103
10	93	153	100	95	e55	e48	52	122	220	173	132	121
11	90	146	96	e85	e55	e48	71	123	231	192	136	140
12	89	111	94	e85	e55	e48	66	122	233	185	150	141
13	100	141	87	92	e55	e48	61	129	214	156	145	150
14	176	151	86	228	e55	e48	59	133	210	146	150	134
15	144	105	82	477	e55	e48	58	142	235	173	146	128
16	129	117	79	201	52	e48	58	140	277	176	137	121
17	127	144	79	238	51	e48	57	140	291	169	136	126
18	115	146	84	328	50	e48	57	138	277	179	151	131
19	105	253	100	247	53	e50	57	144	243	338	143	119
20	98	315	103	166	52	e50	61	171	227	323	172	133
21	92	253	109	135	51	e50	67	166	243	224	140	144
22	91	234	104	125	49	e50	77	149	273	196	135	134
23	87	162	89	114	e48	e50	84	148	283	174	132	182
24	93	129	90	100	e48	e50	77	162	283	158	127	242
25	233	102	91	102	e46	e50	75	168	259	150	131	195
26	153	94	108	88	e46	51	72	161	276	141	137	166
27	128	86	112	88	e48	50	74	160	326	150	143	126
28	95	159	102	76	e48	49	80	196	341	149	185	92
29	89	149	284	71	---	48	82	269	344	146	165	82
30	87	104	216	67	---	47	90	262	276	162	175	73
31	92	---	131	67	---	48	---	218	---	159	162	---
TOTAL	3268	3956	3540	4236	1511	1513	1913	4420	7833	5737	4499	4002
MEAN	105	132	114	137	54.0	48.8	63.8	143	261	185	145	133
MAX	233	315	284	477	65	51	90	269	344	338	185	242
MIN	71	71	79	67	46	47	47	81	204	141	127	73
AC-FT	6480	7850	7020	8400	3000	3000	3790	8770	15540	11380	8920	7940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)#

MEAN	94.4	91.5	64.6	61.9	63.6	53.1	70.7	158	191	147	136	139
MAX	145	143	114	137	112	70.5	93.8	205	263	185	178	224
(WY)	1992	1998	2001	2001	1994	1998	1993	1992	1998	2001	1995	1995
MIN	64.0	51.2	47.1	41.6	42.2	43.9	50.5	120	114	115	117	104
(WY)	1998	2000	1998	1999	1999	1999	1999	1996	1997	1997	1997	1993

\# See Period of Record and Remarks
e Estimated

15239070 BRADLEY RIVER NEAR TIDEWATER NEAR HOMER--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001#	
ANNUAL TOTAL	39137		46428			
ANNUAL MEAN	107		127		106	
HIGHEST ANNUAL MEAN					127	2001
LOWEST ANNUAL MEAN					83.8	1996
HIGHEST DAILY MEAN	315	Nov 20	477	Jan 15	954	Sep 21 1995
LOWEST DAILY MEAN	a44	Jan 13	b46	Feb 25	c40	Dec 15 1992
ANNUAL SEVEN-DAY MINIMUM	45	Jan 10	47	Feb 23	40	Jan 28 1999
MAXIMUM PEAK FLOW			749	Jan 15	1320	Nov 9 1997
MAXIMUM PEAK STAGE			6.82	Jan 15	7.59	Nov 9 1997
MAXIMUM PEAK STAGE			d7.11	Mar 11	d8.80	Dec 22 1999
INSTANTANEOUS LOW FLOW					30	Dec 1 1997
ANNUAL RUNOFF (AC-FT)	77630		92090		76750	
10 PERCENT EXCEEDS	172		233		177	
50 PERCENT EXCEEDS	102		112		89	
90 PERCENT EXCEEDS	47		50		48	

PRIOR TO REGULATION AND DIVERSION OF BRADLEY DAM

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1989, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	808	224	198	145	82.1	74.0	72.8	462	1032	1390	1318	966
MAX	1908	480	503	223	114	163	101	676	1357	1577	1781	1746
(WY)	1987	1984	1987	1985	1985	1984	1989	1987	1988	1988	1988	1989
MIN	363	86.1	78.9	72.5	37.4	27.4	42.5	282	862	1153	907	470
(WY)	1984	1986	1988	1989	1989	1989	1985	1985	1986	1983	1983	1983

SUMMARY STATISTICS	WATER YEARS 1983 - 1989#	
ANNUAL MEAN	583	
HIGHEST ANNUAL MEAN	722	1987
LOWEST ANNUAL MEAN	475	1985
HIGHEST DAILY MEAN	10000	Oct 11 1986
LOWEST DAILY MEAN	19	Dec 7 1986
ANNUAL SEVEN-DAY MINIMUM	22	Mar 26 1989
MAXIMUM PEAK FLOW	f11000	Oct 11 1986
MAXIMUM PEAK STAGE	g13.73	Oct 11 1986
INSTANTANEOUS LOW FLOW	h17	Mar 28 1989
ANNUAL RUNOFF (AC-FT)	422700	
ANNUAL RUNOFF (CFSM)	7.11	
ANNUAL RUNOFF (IN)	96.67	
10 PERCENT EXCEEDS	1470	
50 PERCENT EXCEEDS	388	
90 PERCENT EXCEEDS	52	

\# See Period of Record and Remarks
a Jan. 13 to 16
b Feb. 25, 26
c Dec. 15 to Dec. 18, 1992; Apr. 20 to Apr. 21, 1995; Jan. 9 and Apr. 22, 1997; Mar. 5, 1998; Jan. 16 to Jan. 20, and Jan. 28 to Feb. 12, 1999
d Backwater from ice and high tide
f From rating curve extended above 2,400 ft^3/s on basis of runoff comparisons with nearby stations
g From floodmarks
h Minimum recorded, but may have been less during period of ice effect, Mar. 28 to Mar. 31, 1989

15241600 NINILCHIK RIVER AT NINILCHIK

LOCATION.--Lat 60°02′56″, long 151°39′48″, in NE¼ sec. 34, T. 1 S., R. 14 W. (Kenai A-5 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on right bank 60 ft downstream from bridge, 0.9 mi upstream from mouth, at Ninilchik.

DRAINAGE AREA.--135 mi^2 (revised).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1963 to September 1985, October 1998 to September 2001 (discontinued).

GAGE.--Water-stage-recorder. Elevation of gage is 30 ft above sea level, from topographic map. Prior to October 1, 1965, at site 0.2 mi upstream at different datum.

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	98	e85	e70	e70	e55	e60	e60	556	202	58	72	87
2	94	e80	e70	e70	e55	e60	e60	467	182	57	69	82
3	94	e80	e70	e65	e55	e60	e65	372	163	58	67	87
4	125	e80	e70	e65	e55	e60	e65	281	144	70	80	88
5	168	e80	e70	e65	e55	e65	e65	214	125	91	91	127
6	174	e80	e70	e65	e55	e65	e70	193	113	110	82	116
7	158	e80	e70	e65	e55	e65	e80	193	115	88	73	102
8	167	e80	e70	e65	e55	e65	e90	215	117	76	69	99
9	160	e80	e70	e65	e55	e65	e100	238	108	87	69	88
10	141	e80	e70	e65	e55	e65	e110	297	97	84	68	82
11	130	e85	e70	e65	e55	e65	e130	338	91	90	66	79
12	127	e85	e70	e65	e55	e65	e150	298	89	105	65	76
13	121	e80	e70	e65	e55	e65	e180	265	91	107	63	78
14	132	e80	e70	e65	e55	e65	e200	253	87	94	62	87
15	148	e80	e70	e65	e55	e65	e250	257	82	87	62	91
16	135	e80	e70	e65	e60	e65	e300	254	78	101	64	84
17	125	e80	e70	e65	e60	e60	343	231	75	98	75	85
18	113	e80	e70	e65	e60	e60	371	212	73	82	120	92
19	106	e85	e70	e60	e60	e60	413	208	73	83	138	133
20	101	e85	e75	e60	e60	e60	409	211	72	139	144	174
21	91	e80	e70	e60	e60	e60	503	215	70	141	126	149
22	e85	e80	e65	e60	e55	e60	585	217	68	169	104	129
23	e85	e80	e70	e60	e55	e60	654	201	66	197	85	109
24	e85	e75	e70	e60	e55	e60	653	196	64	155	81	99
25	e90	e75	e70	e60	e60	e60	665	189	63	125	97	95
26	e85	e75	e70	e60	e65	e65	689	191	61	107	94	92
27	e85	e75	e70	e60	e65	e65	668	191	59	89	86	89
28	e85	e75	e70	e55	e60	e65	625	198	58	79	87	86
29	e85	e75	e75	e55	---	e65	567	232	57	74	109	88
30	e85	e70	e70	e55	---	e60	561	292	58	71	103	86
31	e85	---	e70	e55	---	e60	---	257	---	72	96	---
TOTAL	3563	2385	2175	1940	1600	1940	9681	7932	2801	3044	2667	2959
MEAN	115	79.5	70.2	62.6	57.1	62.6	323	256	93.4	98.2	86.0	98.6
MAX	174	85	75	70	65	65	689	556	202	197	144	174
MIN	85	70	65	55	55	60	60	189	57	57	62	76
AC-FT	7070	4730	4310	3850	3170	3850	19200	15730	5560	6040	5290	5870
CFSM	.88	.61	.54	.48	.44	.48	2.46	1.95	.71	.75	.66	.75
IN.	1.01	.68	.62	.55	.45	.55	2.75	2.25	.80	.86	.76	.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)#

MEAN	131	97.4	64.0	55.7	57.1	64.6	160	233	119	87.8	89.0	116
MAX	221	314	98.5	86.0	93.9	108	548	488	238	151	155	204
(WY)	1981	1980	1980	1980	1982	1970	1974	1977	1964	1980	1981	1982
MIN	78.2	41.1	42.0	36.8	36.0	36.9	41.4	81.7	62.2	57.6	47.8	54.6
(WY)	1969	1964	1966	1974	1974	1974	1985	1969	1969	1983	1969	1969

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1963 - 2001#	
ANNUAL TOTAL	37709		42687			
ANNUAL MEAN	103		117		107	
HIGHEST ANNUAL MEAN					151	1980
LOWEST ANNUAL MEAN					55.4	1969
HIGHEST DAILY MEAN	e650	May 1	689	Apr 26	1220	Apr 24 1974
LOWEST DAILY MEAN	a50	Mar 26	b55	Jan 28	30	Jul 20 1966
ANNUAL SEVEN-DAY MINIMUM	52	Mar 23	55	Jan 28	32	Jan 9 1983
MAXIMUM PEAK FLOW			767	Apr 23	1240	Apr 24 1974
MAXIMUM PEAK STAGE			5.52	Apr 23	6.04	Apr 24 1974
MAXIMUM PEAK STAGE					c8.69	Apr 14 1969
ANNUAL RUNOFF (AC-FT)	74800		84670		77210	
ANNUAL RUNOFF (CFSM)	.79		.89		.81	
ANNUAL RUNOFF (INCHES)	10.71		12.12		11.05	
10 PERCENT EXCEEDS	180		213		200	
50 PERCENT EXCEEDS	75		80		76	
90 PERCENT EXCEEDS	55		60		49	

\# See Period of Record, partial years used in monthly statistics
a From Mar. 26 to 29
b From Jan. 28 to Feb. 15, and Feb. 22 to 24
c Backwater from ice
e Estimated

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952-53, 1955-58, 1963-65, 1967-68, 1975, 1978-79, and 1998 to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1963, October 1964 to July 1965, and October 1998 to September 2001.
SEDIMENT: October 1963 to July 1965.

INSTRUMENTATION.--Electronic water temperature recorder set for 15-minute recording interval.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the average for the river by cross sections on February 5, and June 5. No variation was found within the cross sections. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 20.5°C, July 4, 1999; minimum, 0.0°C on many days during fall and winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 20.0°C, June 28 ; minimum, 0.0°C on many days during fall and winter.

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

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
FEB								
05...	1400	4.00	100	7.2	0	772	11.8	79.7
05...	1401	11.0	100	7.3	0	772	11.8	79.7
05...	1402	18.0	100	7.3	0	772	11.8	79.7
05...	1403	25.0	100	7.3	0	772	11.8	79.7
JUN								
05...	1630	6.00	68	7.9	12.5	762	11.0	103
05...	1631	18.0	68	7.8	12.5	762	10.8	101
05...	1632	30.0	68	7.8	12.5	762	10.8	101
05...	1633	42.0	68	7.8	12.5	762	10.7	100
05...	1634	54.0	68	7.8	12.5	762	10.7	100

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT (CODE) (50280)	QUALITY ASSURANCE DATA INDICATOR CODE (99111)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)
OCT													
04...	0900	9	9	42.0	4.23	111	10	3045	1001	--	87	7.4	--
NOV													
06...	1520	9	9	42.0	4.66	80	10	3045	1001	--	89	7.7	--
JAN													
02...	1630	9	9	42.0	--	69	10	3045	1001	--	90	7.3	--
FEB													
05...	1420	9	9	30.0	--	56	10	3045	1001	--	100	7.3	-1.5
MAR													
05...	1450	9	9	28.0	--	67	10	3045	1001	--	108	7.0	4.0
APR													
17...	1220	9	9	53.0	4.81	323	10	3045	1006	--	72	7.7	5.5
20...	1630	9	9	56.0	4.97	412	10	3045	1002	--	62	7.7	8.0
MAY													
08...	1440	9	9	60.5	4.64	220	10	3045	1001	--	57	7.7	2.5
JUN													
05...	1600	9	7	50.0	4.30	123	10	3045	1001	30	68	7.8	14.5
JUL													
11...	1500	9	9	49.0	4.12	92	10	3045	1001	--	94	7.6	13.0
AUG													
06...	1630	9	7	--	4.08	79	10	3045	1001	30	104	7.6	--
22...	1112	D	9	--	--	--	8010	8010	1099	--	--	--	--
22...	1240	9	9	59.0	4.16	102	10	3045	1006	--	94	7.5	17.0
SEP													
05...	1610	9	9	50.0	4.33	157	10	3045	1001	10	95	7.5	--

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

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

DATE	TEMP-ERATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MMOF HG) (00025)	OXYGEN DIS-OLVED (MG/L) (00300)	OXYGEN, DIS-OLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBO NATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/S AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT													
04...	3.0	770	13.0	96	30	6.77	3.14	6.3	41	1.98	48	39	.6
NOV													
06...	.00	752	14.2	98	29	6.58	3.02	6.8	41	1.62	48	40	.7
JAN													
02...	.00	755	13.6	94	32	7.14	3.40	6.7	41	1.86	50	41	.7
FEB													
05...	.00	772	11.8	80	37	8.56	3.87	7.5	49	2.03	58	48	.6
MAR													
05...	.00	749	11.2	78	38	8.57	4.01	7.4	51	2.24	60	50	.7
APR													
17...	.5	759	13.5	94	27	6.13	2.74	4.3	31	1.58	37	30	.3
20...	1.5	764	13.4	95	22	5.01	2.30	3.3	28	1.31	33	27	.2
MAY													
08...	5.0	762	12.4	97	19	4.46	1.99	3.9	25	1.46	30	24	.3
JUN													
05...	12.5	762	10.8	101	23	5.30	2.38	4.6	32	1.77	38	31	.5
JUL													
11...	12.5	765	10.8	101	34	7.83	3.61	7.1	44	1.63	51	43	.3
AUG													
06...	16.0	770	9.7	97	37	8.56	3.84	7.2	48	1.85	56	46	.4
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	12.5	755	9.7	92	--	--	--	--	--	--	--	--	--
SEP													
05...	11.5	756	11.0	102	36	8.25	3.73	6.9	42	2.03	51	43	.4

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLOU-RIDE DIS-SOLVED (MG/L AS F) (00950)	SIL-ICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOL-IDS, RISI-DUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOL-IDS, SUM OF CON-STITU-ENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMO-NIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMO-NIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMO-NIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT													
04...	3.6	<.2	28.0	84	75	.003	.083	.049	.49	.19	.182	.066	.058
NOV													
06...	2.8	<.2	30.0	81	76	.002	.081	.037	.18	.16	.070	.051	.045
JAN													
02...	2.6	<.2	31.5	91	80	.002	.129	.039	.21	.19	.075	.055	.048
FEB													
05...	2.6	E.1	32.9	92	88	.003	.132	.057	.24	.19	.073	.052	.051
MAR													
05...	3.3	<.2	32.1	103	89	.002	.138	.059	.29	.20	.093	.059	.052
APR													
17...	1.8	<.2	18.6	66	55	.001	.030	.004	.41	.26	.186	.057	.042
20...	1.9	<.2	15.7	71	47	.003	.024	.004	1.0	.24	.309	.049	.035
MAY													
08...	1.9	<.2	19.8	69	50	.002	.046	.018	.43	.25	.118	.051	.039
JUN													
05...	1.8	<.2	20.5	66	56	.002	.029	.017	.28	.20	.085	.056	.042
JUL													
11...	1.8	E.1	29.0	89	77	.003	.040	.020	.34	.22	.127	.071	.063
AUG													
06...	2.1	<.2	30.0	113	83	.006	.089	.044	.55	.31	.227	.094	.085
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	.004	.051	.029	.41	.30	.147	.083	.064
SEP													
05...	2.9	E.1	29.6	88	80	.004	.054	.022	.45	.25	.173	.085	.076

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

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

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CAR-BON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CAR-BON, INOR-GANIC, PAR-TIC. TOTAL (MG/L AS C) (00688)	CAR-BON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CAR-BON, INORG + ORGANIC PAR-TIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN, PARTIC-ULATE WAT FLT SUSP (MG/L AS N) (49570)	CHLOR-A PERIPH-YTON CHROMO-GRAPHIC FLUO-ROM (MG/M2) (70957)	PERIPH-YTON BIO-MASS ASH WEIGHT G/SQ M (00572)	PERIPH-YTON BIO-MASS TOTAL DRY WEIGHT G/SQ M (00573)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT													
04...	650	115	4.9	<.1	1.4	1.4	.110	--	--	--	--	19	5.7
NOV													
06...	480	81.2	3.9	<.1	.2	.2	<.022	--	--	--	--	4	.86
JAN													
02...	550	45.2	4.2	<.1	.2	.3	.037	--	--	--	--	4	.75
FEB													
05...	610	99.6	3.6	<.1	.2	.2	<.022	--	--	--	--	6	.91
MAR													
05...	680	116	3.7	<.1	.4	.4	.036	--	--	--	--	8	1.4
APR													
17...	1250	136	7.4	--	--	1.7	.148	--	--	--	--	70	61
20...	1070	172	7.4	--	--	9.0	.668	--	--	--	--	164	182
MAY													
08...	620	42.1	6.5	--	--	1.5	.113	--	--	--	--	33	20
JUN													
05...	500	70.0	6.0	--	--	1.0	.065	--	--	--	--	16	5.3
JUL													
11...	600	86.5	5.7	--	--	1.3	.105	--	--	--	--	19	4.7
AUG													
06...	850	81.1	6.0	--	--	E1.4	E.110	--	--	--	--	19	4.1
22...	--	--	--	--	--	--	--	.5	38.5	39.4	.3	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
05...	780	70.7	6.5	--	--	3.0	.244	--	--	--	--	40	17

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT	
04...	75
NOV	
06...	--
JAN	
02...	97
FEB	
05...	89
MAR	
05...	78
APR	
17...	53
20...	60
MAY	
08...	70
JUN	
05...	72
JUL	
11...	80
AUG	
06...	80
22...	--
22...	--
SEP	
05...	74

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	1.0	.0	.0	4.0	2.0	3.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	2.0	3.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	1.5	3.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	1.5	2.5
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.5	2.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	2.0	3.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	2.5	4.0
8	.0	.0	.0	.0	.0	.0	.5	.0	.0	7.0	3.0	4.5
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	3.0	3.5
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	2.0	3.5
11	.0	.0	.0	.0	.0	.0	1.0	.0	.0	6.5	2.5	4.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	3.5	5.5
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	4.0	6.0
14	.0	.0	.0	.0	.0	.0	.5	.0	.0	9.0	4.5	6.5
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	6.0	7.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	5.0	6.0
17	.0	.0	.0	.0	.0	.0	.5	.0	.0	8.0	4.5	6.0
18	.0	.0	.0	.0	.0	.0	1.0	.0	.0	9.0	4.5	7.0
19	.0	.0	.0	.0	.0	.0	1.0	.0	.0	10.0	5.5	7.5
20	.0	.0	.0	.0	.0	.0	1.5	.0	.5	9.0	6.5	8.0
21	.0	.0	.0	.0	.0	.0	2.0	.5	1.0	8.0	6.5	7.0
22	.0	.0	.0	.0	.0	.0	2.5	.5	1.5	9.0	5.5	7.0
23	.0	.0	.0	.0	.0	.0	2.0	.0	1.0	9.0	5.5	7.0
24	.0	.0	.0	.0	.0	.0	3.0	.0	1.5	7.0	5.0	6.0
25	.0	.0	.0	.0	.0	.0	3.5	.5	1.5	6.5	4.5	5.5
26	.0	.0	.0	.0	.0	.0	3.0	1.0	2.0	6.5	5.0	5.5
27	.0	.0	.0	.0	.0	.0	2.5	.5	1.5	10.0	4.0	7.0
28	.0	.0	.0	.0	.0	.0	2.5	1.0	2.0	12.0	7.0	9.5
29	---	---	---	.0	.0	.0	4.5	1.0	2.5	11.5	8.5	10.0
30	---	---	---	.0	.0	.0	5.0	2.0	3.5	12.0	7.5	9.5
31	---	---	---	.0	.0	.0	---	---	---	12.5	8.0	10.5
MONTH	.0	.0	.0	.0	.0	.0	5.0	.0	.6	12.5	.5	5.8

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.5	9.5	11.5	17.5	11.5	14.5	17.5	11.5	14.5	12.0	7.5	10.0
2	15.0	9.5	12.0	18.5	11.5	15.0	17.0	11.5	14.5	11.0	9.0	10.0
3	13.0	10.5	12.0	15.5	11.5	12.5	15.0	12.5	13.5	13.0	8.5	10.5
4	13.0	9.0	11.0	14.0	11.0	12.0	13.5	11.5	12.5	11.0	9.5	10.0
5	12.5	9.0	11.0	14.5	10.5	12.0	15.5	10.0	12.5	11.5	8.5	9.5
6	12.0	9.5	10.5	16.0	10.5	13.0	16.0	10.5	13.5	10.0	7.5	9.0
7	12.0	8.5	10.0	14.5	12.0	13.5	16.0	10.5	13.5	11.5	8.5	9.5
8	14.5	8.5	11.5	15.0	11.5	13.0	15.0	12.5	13.5	11.0	6.5	9.0
9	15.5	9.0	12.0	16.5	10.0	13.0	14.5	12.0	13.0	10.5	6.0	8.0
10	15.0	9.5	12.5	14.5	11.5	12.5	15.0	12.0	13.5	10.0	5.5	8.0
11	14.0	10.5	12.5	12.5	10.5	11.5	16.5	11.0	14.0	9.5	5.0	7.5
12	12.5	10.0	11.0	12.5	10.5	11.5	16.5	12.5	14.5	8.5	7.0	7.5
13	15.5	9.5	12.0	14.5	10.5	12.5	17.5	11.5	14.5	9.0	6.5	7.5
14	16.5	10.0	13.0	16.5	11.0	13.5	16.0	13.0	14.5	9.0	7.0	8.0
15	17.0	10.5	14.0	14.0	12.0	13.0	17.0	13.5	15.0	10.0	7.5	8.5
16	17.5	11.0	14.5	15.0	11.5	13.0	15.0	13.5	14.0	9.0	7.0	8.0
17	17.5	11.0	14.5	17.0	11.0	14.0	13.5	12.0	12.5	10.5	8.0	9.0
18	16.5	11.0	14.0	14.5	12.0	13.5	13.5	11.0	12.0	10.0	8.5	9.0
19	16.5	11.5	14.0	13.5	12.0	13.0	12.5	11.5	12.0	9.5	8.5	9.0
20	17.5	11.5	14.5	13.0	11.5	12.5	12.5	10.5	11.5	10.0	8.5	9.0
21	18.0	12.5	15.0	12.5	12.0	12.0	13.5	9.5	11.5	9.0	7.5	8.0
22	18.5	11.5	15.0	12.5	11.5	12.0	14.5	10.0	12.0	8.5	6.5	7.5
23	19.0	12.0	16.0	14.5	11.5	12.5	14.0	9.5	12.0	8.0	6.5	7.5
24	19.0	13.0	16.0	16.0	11.5	13.5	12.5	10.5	11.0	8.0	6.0	7.0
25	19.0	12.5	16.0	15.0	12.5	14.0	12.5	10.0	11.0	8.0	5.0	6.5
26	19.5	13.0	16.5	17.0	11.5	14.5	12.5	10.0	11.5	7.5	5.5	6.5
27	19.0	13.5	16.5	17.5	12.5	15.0	11.5	9.0	10.5	6.5	4.0	5.5
28	20.0	13.5	17.0	17.0	12.0	14.5	10.5	9.5	10.0	7.0	4.0	5.5
29	18.0	14.0	16.0	17.5	12.0	14.5	10.0	9.0	9.5	7.0	4.0	5.5
30	17.5	11.5	14.5	16.0	13.0	14.5	11.0	9.0	10.0	6.0	4.0	5.0
31	---	---	---	16.5	12.5	14.5	11.0	8.5	10.0	---	---	---
MONTH	20.0	8.5	13.6	18.5	10.0	13.2	17.5	8.5	12.5	13.0	4.0	8.0
YEAR	20.0	.0	4.7									

15243900 SNOW RIVER NEAR SEWARD

LOCATION.--Lat 60°17′42″, long 149°20′38″, in NE¼ SW¼ sec. 6, T. 2 N., R. 1 E. (Seward B-7 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, on left bank, 0.5 mi below the Alaska Railroad bridge, 3.0 mi upstream from the mouth at Kenai Lake, and 13.5 mi north of Seward.

DRAINAGE AREA.--128 mi^2 (revision pending).

PERIOD OF RECORD.--August to September of 1970, 1974, 1977 and April 1997 to current year.

GAGE.--Water stage recorder. Elevation of gage is 470 ft above sea level, from topographic map. Prior to April 9, 1998 at site 0.5 mi upstream at different datum.

REMARKS.--Records fair, except estimated daily discharges which are poor. Rain gage at station. GOES satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Glacier-dammed lake outburst flood about August 31, 1967, 55,000 ft^3/s from rating curve extended above 27,000 ft^3/s, gage-height 42.60 ft from floodmarks, site and datum then in use.

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	596	244	e250	620	e160	e130	e110	316	1470	3480	2750	4150
2	537	230	e200	538	e160	e130	e110	304	1680	3460	2980	3290
3	493	216	e220	447	e150	e130	e120	296	2010	3360	2910	3040
4	458	153	400	371	e150	e130	e120	209	2000	3030	2770	3110
5	477	216	494	e280	e150	e130	e110	e140	1780	3220	2780	3210
6	672	198	428	e300	e150	e120	e110	e130	1660	3150	2780	2700
7	1190	190	367	e450	e150	e120	e110	e110	1490	2900	2540	2500
8	1370	171	210	499	e150	e120	e110	e120	1330	2820	2360	2270
9	760	173	e200	421	e150	e120	e110	182	1480	2660	2300	2130
10	599	311	e230	294	e150	e120	e110	196	1650	2630	2200	2120
11	524	466	257	e200	e150	e120	e120	254	1680	2520	2220	2210
12	494	331	152	e200	e150	e120	e120	322	1600	2690	2580	3530
13	474	368	e160	e200	e150	e120	e120	356	1610	2890	2890	5100
14	1290	393	e160	505	e150	e120	e110	408	1680	2780	2860	5520
15	739	302	e160	1190	e150	e120	e110	475	2100	2790	2680	5740
16	785	321	e160	694	e150	e120	e110	539	2570	2610	2650	6830
17	734	341	e160	751	e150	e120	e110	535	2850	2790	2500	8870
18	569	406	e160	1540	e150	e120	e110	537	2900	2990	2670	11200
19	479	510	e160	2030	e140	e120	e110	559	2910	3310	2550	12700
20	420	632	146	886	e140	e120	e110	713	2790	4630	4290	13500
21	380	873	303	658	e130	e120	e110	845	2630	4580	4250	13500
22	386	726	e160	578	e130	e120	e110	769	2840	4660	3740	13400
23	365	545	e160	518	e130	e110	e110	634	3600	4340	2980	9040
24	334	502	e180	434	e130	e110	e110	589	3460	3650	2570	6800
25	449	453	354	381	e130	e110	e110	571	3320	3280	2420	3410
26	384	372	388	332	e130	e110	e110	559	3950	3110	2430	2300
27	340	302	370	252	e160	e110	e130	549	4320	3100	2520	1710
28	302	399	366	e180	e130	e110	145	698	4430	2960	6520	1560
29	285	396	845	e170	---	e100	221	927	4270	2680	7500	1440
30	282	309	1020	e170	---	e110	284	1100	3840	2520	7050	1060
31	265	---	804	e170	---	e110	---	1290	---	2630	5880	---
TOTAL	17432	11049	9624	16259	4070	3670	3690	15232	75900	98220	102120	157940
MEAN	562	368	310	524	145	118	123	491	2530	3168	3294	5265
MAX	1370	873	1020	2030	160	130	284	1290	4430	4660	7500	13500
MIN	265	153	146	170	130	100	110	110	1330	2520	2200	1060
AC-FT	34580	21920	19090	32250	8070	7280	7320	30210	150500	194800	202600	313300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)#

MEAN	983	322	204	201	117	108	178	713	2228	3163	3016	3369
MAX	2506	514	312	524	188	220	277	841	2530	3281	5598	6294
(WY)	1999	1998	2000	2001	1998	1998	1998	2000	2001	1998	1977	1974
MIN	279	188	87.3	57.0	42.0	39.2	81.8	491	1780	2866	1764	1157
(WY)	1998	2000	1999	1999	1999	1999	1999	2001	1999	1999	1998	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001#	
ANNUAL TOTAL	357799		515206			
ANNUAL MEAN	978		1412		1114	
HIGHEST ANNUAL MEAN					1412	2001
LOWEST ANNUAL MEAN					965	2000
HIGHEST DAILY MEAN	4620	Jul 17	ab13500	Sep 20	b23800	Sep 20 1974
LOWEST DAILY MEAN	43	Mar 31	100	Mar 29	c36	Mar 3 1999
ANNUAL SEVEN-DAY MINIMUM	44	Mar 27	109	Mar 23	37	Feb 26 1999
MAXIMUM PEAK FLOW			b14900	Sep 22	b26400	Sep 20 1974
MAXIMUM PEAK STAGE			12.20	Sep 22	d40.75	Sep 20 1974
INSTANTANEOUS LOW FLOW					36	Mar 3 1999
ANNUAL RUNOFF (AC-FT)	709700		1022000		807100	
10 PERCENT EXCEEDS	2890		3380		3490	
50 PERCENT EXCEEDS	451		453		672	
90 PERCENT EXCEEDS	69		120		71	

\# See Period of Record, partial years used in monthly summary statistics
a Sept. 20 and Sept. 21
b Result of release of stored water from glacier-dammed lake
c Mar. 3 and Mar. 4, 1999
d Site and datum then in use
e Estimated

15258000 KENAI RIVER AT COOPER LANDING

LOCATION.--Lat 60°29′34″, long 149°48′28″, in SE¼ sec. 28, T. 5 N., R. 3 W. (Seward B-8 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, Chugach National Forest, on right bank 10 ft downstream from bridge on Sterling Highway, 0.9 mi upstream from Bean Creek, 0.9 mi east of Cooper Landing, and at Kenai Lake outlet.

DRAINAGE AREA.--634 mi^2.

PERIOD OF RECORD.--May 1947 to current year.

REVISED RECORDS.--WSP 2136: l964 (M).

GAGE.--Water-stage recorder. Datum of gage is 419.92 ft above sea level (levels by Alaska Department of Transportation). See WSP 2136 for history of changes prior to August 28, 1965. August 28, 1965 to January 21, 1974, at site 10 ft upstream at present datum. January 22, 1974 to September 30, 1981, non-recording gage at site 40 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Diversion from Cooper Lake to Kenai Lake above gage through Cooper Lake power plant began May 1961. No diversions occurred from October 2000 to February 2001. Rain gage at station. GOES satellite telemetry and telephone modem at station.

COOPERATION.--Records of diversion provided by Chugach Electric Association.

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	2980	1610	1370	1270	1830	791	605	944	3950	12400	8140	12100
2	2820	1550	1330	1290	1730	779	616	998	4350	12100	8000	11300
3	2690	1490	1310	1310	1650	773	630	1040	4830	11700	7930	10400
4	2570	1460	1280	1320	1580	775	618	1080	5290	11300	7840	9610
5	2450	1400	1290	1300	1520	756	624	1110	5630	10900	7730	8920
6	2370	1360	1300	1300	1440	746	639	1140	5840	10700	7670	8420
7	2370	1300	1300	1370	1360	745	639	1150	6010	10500	7540	7840
8	2460	1280	1280	1450	1310	748	643	1170	6010	10200	7280	7330
9	2480	1260	1280	1470	1240	725	651	1180	6040	9920	7060	6760
10	2480	1250	1270	1460	1220	722	664	1200	6160	9640	6910	6250
11	2400	1240	1260	1460	1200	717	667	1210	6330	9360	6690	5810
12	2340	1240	1220	1440	1140	703	665	1250	6510	9090	6600	5600
13	2300	1290	1190	1410	1090	699	668	1290	6600	8910	6610	5800
14	2320	1300	1150	1430	1070	699	673	1340	6730	8750	6790	6160
15	2370	1300	1130	1620	1040	686	682	1410	6950	8650	6880	6380
16	2390	1300	1090	1770	1020	675	680	1500	7390	8500	6890	6620
17	2430	1300	1100	1860	969	668	685	1600	7880	8400	6900	7040
18	2420	1320	1090	2080	932	651	694	1710	8370	8450	6920	7790
19	2390	1350	1070	2600	911	642	704	1840	8760	8570	6930	8870
20	2310	1380	1050	2900	879	638	719	2000	9070	9080	7020	10400
21	2250	1440	1030	3040	849	630	727	2170	9240	9750	7530	12300
22	2170	1530	1010	3060	826	620	737	2330	9360	10300	7900	14700
23	2110	1570	1000	3000	806	612	749	2490	9720	10700	7970	15000
24	2070	1580	988	2910	786	605	758	2600	10400	10700	7730	13900
25	2030	1560	975	2730	784	595	776	2690	10900	10500	7380	12600
26	1990	1540	982	2600	786	597	787	2770	11400	10200	7040	11100
27	1900	1510	981	2420	806	592	809	2820	11900	9890	6800	9740
28	1840	1510	985	2290	796	588	836	2940	12500	9560	7250	8600
29	1790	1470	1010	2170	---	587	863	3140	12900	9220	9420	7680
30	1700	1430	1110	2030	---	590	902	3330	12700	8800	11200	6880
31	1660	---	1210	1910	---	593	---	3590	---	8440	12200	---
TOTAL	70850	42120	35641	60270	31570	20947	21110	57032	239720	305180	236750	271900
MEAN	2285	1404	1150	1944	1128	676	704	1840	7991	9845	7637	9063
MAX	2980	1610	1370	3060	1830	791	902	3590	12900	12400	12200	15000
MIN	1660	1240	975	1270	784	587	605	944	3950	8400	6600	5600
MED	2370	1390	1130	1770	1060	675	681	1500	7170	9750	7280	8510
AC-FT	140500	83550	70690	119500	62620	41550	41870	113100	475500	605300	469600	539300
CFSM	3.60	2.21	1.81	3.07	1.78	1.07	1.11	2.90	12.6	15.5	12.0	14.3
IN.	4.16	2.47	2.09	3.54	1.85	1.23	1.24	3.35	14.07	17.91	13.89	15.95

ADJUSTED TO EXCLUDE DIVERSION FROM COOPER LAKE

MEAN	2285	1404	1150	1943	1128	482	568	1606	7683	9605	7518	8924
CFSM	3.60	2.21	1.81	3.06	1.78	0.76	0.90	2.53	12.12	15.15	11.86	14.08
IN	4.15	2.47	2.09	3.53	1.85	0.88	1.00	2.92	13.52	17.47	13.67	15.70
AC-FT	140500	83550	70690	119500	62620	29630	33790	98720	457200	590590	462260	531020

15258000 KENAI RIVER AT COOPER LANDING--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2001, BY WATER YEAR (WY)#

MEAN	3271	1798	1129	814	653	512	546	1907	5413	7006	6381	5308
MAX	8955	4877	3469	2807	2066	1122	1071	3508	10010	10480	11430	11490
(WY)	1980	1958	1986	1981	1981	1977	1980	1990	1953	1980	1977	1967
MIN	1264	654	364	310	251	208	262	658	3268	4868	3651	2629
(WY)	1956	1951	1951	1951	1949	1951	1952	1952	1972	1996	1969	1969

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1947 - 2001#	
ANNUAL TOTAL	972220		1393090			
ANNUAL MEAN	2656		3817		2913	
ANNUAL MEAN	*2631		*3702		*2840	
HIGHEST ANNUAL MEAN					4499	1977
LOWEST ANNUAL MEAN					2102	1969
HIGHEST DAILY MEAN	8590	Jul 18	15000	Sep 23	22500	Sep 21 1974
LOWEST DAILY MEAN	523	Apr 14	587	Mar 29	100	Mar 28 1964
ANNUAL SEVEN-DAY MINIMUM	531	Apr 9	592	Mar 25	190	Mar 15 1951
MAXIMUM PEAK FLOW			a15700	Sep 22	a23100	Sep 21 1974
MAXIMUM PEAK STAGE			a14.78	Sep 22	17.18	Sep 21 1974
INSTANTANEOUS LOW FLOW			578	Mar 29	b.00	Mar 27 1964
ANNUAL RUNOFF (AC-FT)	1928000		2763000		2110000	
ANNUAL RUNOFF (AC-FT)	*1905060		*2680070		*2058000	
ANNUAL RUNOFF (CFSM)	*4.15		*5.84		*4.48	
ANNUAL RUNOFF (INCHES)	*56.32		*79.25		*60.83	
10 PERCENT EXCEEDS	6790		9730		6980	
50 PERCENT EXCEEDS	1520		1710		1650	
90 PERCENT EXCEEDS	656		699		412	

\# See Period of Record and Remarks; partial years used in monthly statistics.
Values shown on this page are unadjusted for inflow from diversion, unless otherwise noted
* Adjusted to account for inflow from diversion, see Remarks
a Result of release of stored water from glacier-dammed lake at head of unnamed glacier in the Snow River Basin
b No flow, Mar. 27 and Mar. 28, 1964, caused by earthquake

SOUTH-CENTRAL ALASKA

15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING

LOCATION.--Lat 60°28'50", long 149°52'50", in NW¼ SW¼ sec. 31, T. 5 N., R. 3 W. (Seward B-8 quad), Hydrologic Unit 19020302 Kenai Peninsula Borough,on left bank, approximately 0.5 mi upstream from mouth, and 1.5 mi west of Cooper Landing.

DRAINAGE AREA.--48.6 mi^2.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to January 1965, August 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 450 ft above sea level, from topographic map. From October 1957 to January 1965, 0.4 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Since July 1959, entire flow from 31.8 mi^2 of drainage area has been regulated by dam at Cooper Lake outlet. No spilling since 1959 except for period May 1961 to October 1962. 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	34	e25	e32	27	17	e10	e7.0	31	154	158	97	75
2	33	e24	e30	e26	e17	e9.5	e7.5	28	170	151	95	71
3	32	23	e30	e25	e16	e9.5	e7.5	26	184	154	96	69
4	32	e22	e30	e23	e16	e9.5	e7.5	24	158	151	93	70
5	34	e22	e30	e22	e15	e9.5	e7.5	22	149	152	90	73
6	35	21	e29	e20	e15	9.3	e7.5	21	146	153	85	66
7	38	21	27	e18	e14	9.1	e8.0	21	138	152	81	65
8	37	23	27	e17	e14	9.0	e8.0	24	132	154	80	60
9	34	23	e25	e15	e13	9.1	e8.0	27	140	145	78	55
10	33	29	e24	e15	e13	9.3	e8.0	30	149	141	74	53
11	33	31	e23	e14	e12	9.7	e8.0	35	152	143	71	50
12	32	e30	22	e13	e12	9.7	e8.5	40	150	140	71	50
13	31	29	21	e13	e12	10	8.6	45	150	124	73	51
14	39	29	21	e12	e12	9.6	9.0	53	151	117	77	48
15	36	e27	e21	e12	e12	9.5	9.3	62	172	119	75	46
16	36	25	e20	e11	e11	9.3	9.7	67	207	124	75	44
17	35	25	e20	40	e11	e9.0	9.9	73	214	121	72	44
18	34	27	e20	54	e11	e9.0	10	74	207	127	74	46
19	32	35	19	70	e11	e9.0	11	76	184	144	70	49
20	31	47	19	48	e11	e9.0	14	88	177	175	88	46
21	33	46	19	38	11	e9.0	16	89	191	154	84	45
22	33	45	e18	32	11	e9.0	18	85	216	147	76	43
23	30	40	e18	28	e10	e9.0	20	81	240	133	68	50
24	29	36	e18	25	e10	e8.5	20	86	253	120	63	67
25	38	35	17	23	e10	e8.5	21	87	250	113	59	57
26	34	e35	17	21	e10	e8.5	23	86	246	113	55	53
27	30	e35	16	20	e10	e8.5	26	88	242	114	53	49
28	e29	e35	15	e19	e10	e8.5	29	106	240	107	100	47
29	e28	35	30	e18	---	8.3	30	127	234	100	140	45
30	e27	32	36	e17	---	e8.0	32	144	206	95	104	42
31	26	---	29	e17	---	e7.5	---	138	---	100	88	---
TOTAL	1018	912	723	753	347	280.9	409.5	1984	5602	4141	2505	1629
MEAN	32.8	30.4	23.3	24.3	12.4	9.06	13.6	64.0	187	134	80.8	54.3
MAX	39	47	36	70	17	10	32	144	253	175	140	75
MIN	26	21	15	11	10	7.5	7.0	21	132	95	53	42
AC-FT	2020	1810	1430	1490	688	557	812	3940	11110	8210	4970	3230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001, BY WATER YEAR (WY)#

MEAN	74.8	52.7	25.4	20.5	14.0	11.9	18.9	101	204	156	88.8	79.5
MAX	264	285	82.9	58.9	32.4	28.0	50.3	219	412	326	226	309
(WY)	1958	1958	1958	1958	1958	1958	1958	1961	1958	1961	1961	1961
MIN	20.7	11.9	10.0	8.00	6.43	4.50	9.00	42.6	73.7	68.1	38.0	21.6
(WY)	1964	1964	1964	1964	1999	1999	1960	1964	1963	1960	1963	1963

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001#	
ANNUAL TOTAL	14155.0		20304.4			
ANNUAL MEAN	38.7		55.6		71.8	
HIGHEST ANNUAL MEAN					a174	1958
LOWEST ANNUAL MEAN					29.9	1963
HIGHEST DAILY MEAN	149	Jun 7	253	Jun 24	ab810	Sep 22 1961
LOWEST DAILY MEAN	8.0	Mar 7	7.0	Apr 1	c4.0	Mar 19 1999
ANNUAL SEVEN-DAY MINIMUM	8.4	Mar 6	7.4	Mar 31	4.0	Mar 19 1999
MAXIMUM PEAK FLOW			288	Jun 23	ab841	Sep 21 1961
MAXIMUM PEAK STAGE			11.19	Jun 23	b2.10	Sep 21 1961
INSTANTANEOUS LOW FLOW			d		f3.1	Mar 1 1960
ANNUAL RUNOFF (AC-FT)	28080		40270		51990	
10 PERCENT EXCEEDS	89		148		195	
50 PERCENT EXCEEDS	31		32		34	
90 PERCENT EXCEEDS	9.5		9.4		9.5	

\# See Period of Record, partial years used in monthly statistics
a Includes natural flow or spill from area upstream from Cooper Lake dam
b Caused by release of water behind log jam upstream. Site and datum then in use
c From Mar. 19 to Apr. 14, 1999
d Not determined. See lowest daily mean
e Estimated
f Caused by temporary storage behind ice jam upstream (observed)

15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August 1998 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for 15 minute recording interval.

REMARKS.--Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the average for the stream by cross section on December 12. No variations were found within the cross section. No variation was found between mean stream temperature and sensor temperature. Heavy shore ice occurs near the gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 11.5°C, July 14, 1999; Minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 10.0°C, August 13; Minimum, 0.0°C on many days during winter.

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

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)
DEC									
12...	1346	31.0	5.00	9.92	21	10	8010	1.0	2.5
12...	1348	31.0	10.0	9.92	21	10	8010	1.0	2.5
12...	1350	31.0	15.0	9.92	21	10	8010	1.0	2.5
12...	1352	31.0	20.0	9.92	21	10	8010	1.0	2.5
12...	1354	31.0	25.0	9.92	21	10	8010	1.0	2.5

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

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

15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING--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
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.5	2.0
2	.0	.0	.0	.0	.0	.0	1.0	.0	.5	4.0	.5	2.0
3	.0	.0	.0	.0	.0	.0	2.0	.0	1.0	3.0	1.0	1.5
4	.0	.0	.0	.0	.0	.0	1.5	.0	1.0	4.0	.5	1.5
5	.0	.0	.0	.5	.0	.0	1.0	.0	.0	3.5	.0	1.5
6	.0	.0	.0	1.0	.0	.5	1.0	.0	.5	4.0	1.0	2.5
7	.0	.0	.0	1.0	.0	.5	2.0	.0	.5	5.0	1.0	3.0
8	.0	.0	.0	1.0	.0	.5	2.0	.5	1.0	5.5	1.5	3.0
9	.0	.0	.0	1.5	.5	1.0	2.0	.0	1.0	5.0	1.0	2.5
10	.0	.0	.0	1.5	.5	1.0	2.0	1.0	1.5	6.0	1.0	3.0
11	.0	.0	.0	1.5	.5	1.0	2.0	.5	1.0	5.0	1.0	2.5
12	.0	.0	.0	1.5	.5	1.0	2.5	.5	1.5	5.0	1.0	2.5
13	.0	.0	.0	1.0	.0	.5	3.0	.5	1.5	5.5	1.0	2.5
14	.0	.0	.0	2.0	.5	1.0	2.5	.0	1.0	5.5	1.0	2.5
15	.0	.0	.0	2.0	.5	1.0	3.0	.5	1.5	4.5	1.5	3.0
16	.0	.0	.0	2.0	.5	1.0	3.5	.5	1.5	4.5	1.5	2.5
17	.0	.0	.0	.5	.0	.0	3.5	.5	1.5	5.0	1.0	2.5
18	.0	.0	.0	.0	.0	.0	4.0	1.0	2.0	4.0	1.5	2.5
19	.0	.0	.0	.0	.0	.0	4.0	.5	1.5	5.5	1.5	3.0
20	.5	.0	.0	.0	.0	.0	3.5	.5	2.0	4.5	2.0	3.0
21	1.0	.5	.5	.0	.0	.0	4.0	1.5	2.0	4.0	2.0	2.5
22	.5	.0	.5	.5	.0	.0	4.0	1.0	2.0	4.5	1.5	2.5
23	.0	.0	.0	.5	.0	.0	3.0	.5	1.5	5.0	1.5	3.0
24	.0	.0	.0	.0	.0	.0	4.5	.5	2.0	5.0	1.5	3.0
25	.0	.0	.0	.0	.0	.0	4.0	1.0	2.5	5.0	1.5	3.0
26	.0	.0	.0	.0	.0	.0	4.0	1.0	2.5	5.0	2.0	3.0
27	.0	.0	.0	.0	.0	.0	4.0	1.0	2.5	5.5	1.5	3.0
28	.0	.0	.0	1.5	.0	.5	3.5	1.5	2.5	6.0	2.0	3.5
29	---	---	---	1.5	.5	1.0	5.0	1.0	2.5	5.0	2.0	3.5
30	---	---	---	.5	.0	.0	4.5	.5	2.0	4.0	2.5	3.0
31	---	---	---	1.0	.0	.0	---	---	---	5.5	2.0	3.5
MONTH	1.0	.0	.0	2.0	.0	.3	5.0	.0	1.5	6.0	.0	2.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.5	2.5	3.5	7.0	3.0	5.0	9.0	5.0	6.5	7.0	4.5	6.0
2	5.5	2.0	3.5	7.0	3.5	5.0	9.0	5.0	6.5	7.0	5.5	6.0
3	5.0	2.5	3.5	6.0	3.5	4.5	6.5	5.5	6.0	8.0	5.5	6.5
4	4.5	2.5	3.5	5.5	4.0	4.5	8.0	5.0	6.5	6.5	5.5	6.0
5	5.0	2.5	3.5	6.0	4.0	4.5	9.0	5.0	6.5	6.0	4.0	5.0
6	4.5	3.0	3.5	5.5	4.0	4.5	9.0	5.0	6.5	6.5	3.0	4.5
7	5.5	2.0	3.5	5.5	4.0	4.5	9.0	5.0	6.5	6.0	4.5	5.0
8	6.0	2.0	3.5	6.0	4.0	5.0	8.0	6.0	7.0	6.0	3.5	4.5
9	6.5	2.5	4.0	7.5	4.0	5.0	8.0	5.5	6.5	6.0	3.0	4.5
10	6.0	2.5	4.0	6.5	3.5	5.0	7.5	5.5	6.0	6.0	3.0	4.5
11	4.5	3.0	3.5	5.5	4.5	5.0	9.5	5.5	7.0	6.0	3.0	4.5
12	4.5	3.0	3.5	5.5	4.0	4.5	9.5	6.0	7.5	6.0	4.5	5.5
13	4.5	3.0	3.5	6.0	4.0	5.0	10.0	5.5	7.5	6.0	4.5	5.5
14	6.0	2.5	4.0	7.0	4.5	5.5	8.0	6.5	7.0	7.0	4.5	5.5
15	6.5	3.0	4.0	6.0	4.5	5.5	9.5	6.0	7.5	6.5	4.5	5.5
16	6.0	2.5	4.0	7.0	4.0	5.5	8.5	6.0	7.0	7.0	4.5	5.5
17	6.0	2.5	4.0	7.5	4.5	6.0	8.5	6.0	7.0	7.0	5.5	6.5
18	4.5	3.0	3.5	8.0	4.0	6.0	8.0	5.5	6.5	7.0	6.0	6.5
19	6.0	2.5	4.0	6.5	5.5	6.0	7.5	5.5	6.5	7.0	5.5	6.0
20	5.5	3.0	4.0	7.0	5.0	5.5	7.5	5.5	6.5	6.5	5.0	5.5
21	5.5	3.5	4.5	6.0	4.0	5.0	8.5	5.5	7.0	6.0	4.5	5.5
22	6.5	3.0	4.5	6.0	5.0	5.5	8.5	5.0	6.5	6.5	4.0	5.0
23	6.5	3.0	4.5	6.0	4.5	5.5	8.5	5.0	6.5	5.5	4.5	5.0
24	6.0	3.0	4.5	6.0	5.0	5.5	7.0	6.0	6.5	5.5	4.5	5.0
25	6.5	3.0	4.5	7.0	5.0	6.0	8.0	5.5	6.5	6.0	3.5	4.5
26	6.5	3.5	4.5	8.0	5.0	6.5	8.5	5.5	6.5	6.0	3.5	4.5
27	6.5	3.5	4.5	8.0	4.5	6.0	7.5	4.5	6.0	5.5	2.5	4.0
28	6.5	3.5	5.0	8.0	4.5	6.0	6.5	6.0	6.0	5.5	3.5	4.5
29	6.5	3.5	4.5	8.0	4.5	6.0	6.5	5.0	6.0	4.5	3.5	4.0
30	6.5	3.0	4.5	7.0	5.5	6.0	7.0	5.0	6.0	5.0	2.5	3.5
31	---	---	---	7.5	5.0	6.0	6.5	4.5	5.5	---	---	---
MONTH	6.5	2.0	4.0	8.0	3.0	5.4	10.0	4.5	6.6	8.0	2.5	5.2

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING

LOCATION.--Lat 60°28′00″, long 150°35′56″, in SW¼ NW¼ sec. 1, T. 4 N., R. 8 W. (Kenai B-2 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, on right bank, 3.5 mi downstream from Skilak Lake, 7 mi southeast of Sterling.

DRAINAGE AREA.--1,206 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1997 to current year.

REVISED RECORDS.-- WRD-AK-00-1: Drainage area.

GAGE.--Water stage recorder. Elevation of gage is 240 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Rain gage recorder at station. GOES satellite telemetry and phone modem 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	e5000	2850	2570	1890	3450	1600	1100	1290	4260	16100	15000	17700
2	e5000	2770	2510	1900	3330	1590	1170	1370	4600	16200	14600	18200
3	e4900	2690	2480	1910	3210	1540	1210	1410	5010	16200	14300	18300
4	e4800	2620	2440	1910	3060	1580	1070	1450	5380	16200	14200	18000
5	e4700	2550	2480	1910	3000	1540	1080	1500	5770	16200	14000	17400
6	e4600	2480	2430	1900	2960	1510	1070	1530	6140	16200	13700	16700
7	e4500	2400	2420	2150	2790	1490	1070	1550	6480	15900	13400	16000
8	e4400	2320	2360	2220	2680	1530	1060	1580	6750	15900	13300	15200
9	e4400	2350	2320	2270	2620	1450	1070	1610	6980	15700	13100	14300
10	e4300	2360	2310	2280	2530	1450	1270	1640	7190	15400	12900	13500
11	e4200	2210	2290	2280	2440	1480	1170	1670	7420	15200	12500	12700
12	e4130	2170	2210	2330	2420	1390	1070	1690	7650	14900	12200	11900
13	4130	2290	2170	2410	2340	1380	1080	1740	7840	14600	12000	11400
14	4080	2210	2160	2570	2250	1410	1060	1780	7990	14300	12000	10900
15	3960	2190	2070	2710	2050	1340	1060	1840	8170	14000	12100	10600
16	3920	2180	2030	2830	2280	1330	1070	1900	8430	13900	12300	10500
17	3870	2260	2020	2960	2140	1310	1070	1970	8800	13800	12600	10500
18	3780	2210	2030	3160	1970	1280	1080	2060	9260	13600	12800	10500
19	3720	2260	2110	3490	1930	1250	1090	2160	9700	13800	13000	10800
20	3650	2230	2000	3610	1860	1220	1130	2290	10100	14000	13100	11200
21	3590	2320	1960	3800	1810	1210	1160	2420	10500	14600	13500	11800
22	3520	2350	1890	3950	1760	1180	1110	2530	10900	15300	13800	12800
23	3490	2400	1860	4050	1710	1160	1130	2670	11400	15900	14200	14100
24	3500	2430	1830	4190	1660	1150	1150	2810	11900	16300	14300	15000
25	3410	2440	1800	4120	1610	1130	1190	2960	12500	16600	14400	15500
26	3270	2440	1790	4120	1650	1120	1190	3110	13200	16600	14200	15400
27	3200	2420	1780	3980	1680	1110	1210	3260	13800	16600	13800	14900
28	3120	2520	1730	3880	1620	1090	1270	3410	14500	16400	13700	14200
29	3030	2570	1810	3750	---	1070	1260	3560	15200	16200	14500	13300
30	2960	2590	1860	3670	---	1090	1290	3760	15800	15700	15500	12500
31	2920	---	1880	3570	---	1110	---	3990	---	15200	16700	---
TOTAL	122050	72080	65600	91770	64810	41090	34010	68510	273620	477500	421700	415800
MEAN	3939	2403	2116	2960	2315	1325	1134	2210	9121	15400	13600	13860
MAX	5000	2850	2570	4190	3450	1600	1290	3990	15800	16600	16700	18300
MIN	2920	2170	1730	1890	1610	1070	1060	1290	4260	13600	12000	10500
AC-FT	242100	143000	130100	182000	128600	81500	67460	135900	542700	947100	836400	824700
CFSM	3.26	1.99	1.75	2.45	1.92	1.10	.94	1.83	7.56	12.8	11.3	11.5
IN.	3.76	2.22	2.02	2.83	2.00	1.27	1.05	2.11	8.44	14.73	13.01	12.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)#

MEAN	5768	3210	1835	1761	1424	1052	1103	2394	8048	13300	11930	10220
MAX	7498	4441	2116	2960	2315	1325	1241	2637	9795	15400	13600	13860
(WY)	1998	2000	2001	2001	2001	2001	1998	1998	1998	2001	2001	2001
MIN	3939	2403	1528	1164	891	870	995	2210	6156	11960	10310	5659
(WY)	2001	2001	1999	1999	1998	1998	1999	2001	1997	1999	1998	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2000#	
ANNUAL TOTAL	1628721		2148540			
ANNUAL MEAN	4450		5887		5200	
HIGHEST ANNUAL MEAN					5887	2001
LOWEST ANNUAL MEAN					4742	2000
HIGHEST DAILY MEAN	14500	Jul 20	18300	Sep 3	18300	Sep 3 2001
LOWEST DAILY MEAN	915	Apr 14	a1060	Apr 8	776	Mar 13 1998
ANNUAL SEVEN-DAY MINIMUM	929	Apr 10	1070	Apr 12	792	Mar 9 1998
MAXIMUM PEAK FLOW			18500	Sep 2	18500	Sep 2 2001
MAXIMUM PEAK STAGE			13.21	Sep 2	13.21	Sep 2 2001
INSTANTANEOUS LOW FLOW			1010	Apr 8	b765	Mar 12 1998
ANNUAL RUNOFF (AC-FT)	3231000		4262000		3767000	
ANNUAL RUNOFF (CFSM)	3.69		4.88		4.31	
ANNUAL RUNOFF (INCHES)	50.24		66.27		58.59	
10 PERCENT EXCEEDS	11900		15000		13100	
50 PERCENT EXCEEDS	2440		2830		3410	
90 PERCENT EXCEEDS	1060		1210		1040	

\# See Period of Record, partial year used in monthly statistics
a Apr 8, 14, and 15
b Mar 12 and 13, 1998
e Estimated

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1998 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set at 15-minute recording interval.

REMARKS.--No record October 1-12 due to low powerto the data recorder, and March 18 to May 1 when the sensor was out of water. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the river average by cross section on October 6 and July 31. No variation was found within the cross-sections. No variation was found between mean stream temperature and temperature at the sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum observed, 15.0°C, July 7, but may have been higher during period of missing record in June and July 1999; minimum, 0.0°C on many days in winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 15.0°C, August 7 and 14; minimum, 0.0°C on many days in winter.

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

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT								
12...	1802	30.0	62	8.1	7.0	751	12.6	105
12...	1804	100	62	8.1	7.0	751	12.5	104
12...	1806	170	62	8.0	7.0	751	12.5	104
12...	1808	240	62	8.1	7.0	751	12.5	104
12...	1810	310	62	8.1	7.0	751	12.5	104
AUG								
07...	1540	40.0	68	8.1	15.0	773	10.9	107
07...	1541	120	68	8.1	15.0	773	10.7	105
07...	1542	200	68	8.1	15.0	773	10.6	104
07...	1543	280	68	8.1	15.0	773	10.6	104
07...	1544	360	68	8.1	15.0	773	10.5	103
SEP								
04...	1535	40.0	64	7.8	11.5	744	10.7	101
04...	1536	120	64	7.8	11.5	744	10.8	101
04...	1537	200	64	7.8	11.5	744	10.7	101
04...	1538	280	64	7.8	11.5	744	10.6	100
04...	1539	360	64	7.8	11.5	744	10.6	100

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT (CODE) (50280)	QUALITY ASSURANCE DATA INDICATOR CODE (99111)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)
OCT													
12...	1740	9	9	340	8.29	4480	10	3053	1001	--	62	8.1	--
NOV													
07...	1420	9	9	325	7.36	2370	10	3053	1001	--	64	7.9	--
JAN													
03...	1120	9	9	395	7.06	1920	10	3045	1001	--	63	7.7	--
FEB													
06...	1050	9	9	390	7.69	3030	10	3045	1001	--	61	8.0	-1.5
MAR													
06...	1100	9	7	375	6.78	1490	10	3045	1001	30	62	7.5	4.0
MAY													
09...	1620	9	9	385	6.81	1610	10	3045	1001	--	65	7.6	.00
09...	1621	D	9	--	--	--	10	8010	1099	--	--	--	--
JUN													
13...	1520	9	9	357	9.93	8030	10	3053	1001	10	70	8.0	14.5
22...	1230	9	9	375	10.99	10900	10	3053	1001	--	62	7.9	18.0
27...	1310	9	9	390	11.91	13900	10	3053	1001	--	68	7.8	22.5
JUL													
12...	1250	9	9	380	12.24	14700	10	3053	1001	--	68	7.3	15.5
24...	1630	9	9	380	12.64	16400	10	3053	1002	--	64	7.8	15.5
AUG													
07...	1530	9	9	390	11.78	13600	10	3053	1001	--	68	8.1	--
SEP													
04...	1520	9	9	380	13.09	17500	10	3053	1001	--	64	7.8	--

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING--Continued

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

DATE	TEMP-ERATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MMOF HG) (00025)	OXYGEN DIS-OLVED (MG/L) (00300)	OXYGEN, DIS-OLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBO NATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/S AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT													
12...	7.0	751	12.5	104	27	9.71	.683	1.0	23	.67	26	21	6.2
NOV													
07...	4.5	755	12.6	98	27	9.65	.671	1.0	23	.90	27	22	6.3
JAN													
03...	2.5	755	13.7	101	28	9.96	.733	1.1	23	.80	28	23	6.1
FEB													
06...	1.5	759	13.0	93	29	10.4	.723	1.1	24	.81	28	23	6.2
MAR													
06...	1.5	748	13.5	98	27	9.61	.696	1.0	23	1.10	26	22	6.6
MAY													
09...	5.0	758	13.0	102	27	9.83	.694	1.1	24	.76	27	22	6.5
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
13...	10.5	761	11.6	104	29	10.4	.759	1.1	23	.70	27	23	1.2
22...	13.0	762	10.3	98	29	10.4	.745	1.1	24	.61	27	22	6.2
27...	13.0	763	11.1	105	30	10.8	.778	1.2	24	.72	26	23	6.4
JUL													
12...	11.0	760	11.0	100	29	10.4	.773	1.2	24	.73	28	23	6.7
24...	12.0	765	10.5	97	30	10.7	.776	1.2	27	.69	29	24	6.9
AUG													
07...	15.0	773	10.6	104	29	10.4	.752	1.1	24	.70	28	23	6.8
SEP													
04...	11.5	744	10.7	101	29	10.3	.742	1.1	22	.69	25	21	6.7

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLOU-RIDE DIS-SOLVED (MG/L AS F) (00950)	SIL-ICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOL-IDS, RISI-DUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOL-IDS, SUM OF CON-STITU-ENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMO-NIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMO-NIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMO-NIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT													
12...	.8	<.2	2.6	41	35	<.001	.159	.017	E.05	<.10	.009	<.006	<.007
NOV													
07...	.8	<.2	2.6	37	36	<.001	.150	.002	<.08	<.10	.007	<.006	<.007
JAN													
03...	.8	<.2	2.9	43	37	.001	.189	<.002	<.08	<.10	.006	<.006	<.007
FEB													
06...	.9	<.2	2.8	36	37	.002	.172	.003	E.04	<.10	.005	<.006	<.007
MAR													
06...	.8	<.2	2.6	39	36	<.001	.165	.003	E.07	E.06	.005	<.006	<.007
MAY													
09...	.7	<.2	2.7	45	36	<.001	.155	<.002	E.06	<.10	.005	<.006	<.007
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
13...	.8	<.2	3.0	39	32	<.001	.154	.002	<.08	<.10	.004	<.006	<.007
22...	.8	<.2	3.0	33	37	.001	.158	.002	E.06	<.10	.005	<.006	<.007
27...	.8	<.2	3.1	42	37	.001	.159	.003	E.06	<.10	.005	<.006	<.007
JUL													
12...	1.0	<.2	3.2	42	38	.001	.164	<.002	E.06	<.10	.005	E.004	<.007
24...	.8	<.2	3.1	39	39	.001	.171	<.002	<.08	<.10	<.004	<.006	<.007
AUG													
07...	.8	<.2	3.0	59	38	.001	.142	.006	E.04	<.10	E.003	<.006	<.007
SEP													
04...	.7	<.2	3.0	42	36	<.001	.153	.025	<.08	<.10	E.003	<.006	<.007

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING--Continued

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

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CAR-BON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CAR-BON, INOR-GANIC, PAR-TIC. TOTAL (MG/L AS C) (00688)	CAR-BON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CAR-BON, INORG + ORGANIC PAR-TIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN, PARTIC-ULATE WAT FLT SUSP (MG/L AS N) (49570)	CHLOR-A PERIPH-YTON CHROMO-GRAPHIC FLUO-ROM (MG/M2) (70957)	PERIPH-YTON BIO-MASS ASH WEIGHT G/SQ M (00572)	PERIPH-YTON BIO-MASS TOTAL DRY WEIGHT G/SQ M (00573)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT													
12...	<10	<3.2	.59	<.1	<.1	<.1	<.022	--	--	--	--	3	36
NOV													
07...	<10	<3.2	.44	<.1	<.1	<.1	<.022	--	--	--	--	7	45
JAN													
03...	<10	<3.2	.56	<.1	<.1	<.1	.024	--	--	--	--	5	26
FEB													
06...	<10	<3.2	.49	<.1	.1	.1	<.022	--	--	--	--	7	57
MAR													
06...	<10	<3.2	.47	<.1	<.1	<.1	<.022	--	--	--	--	4	16
MAY													
09...	M	E2.4	.47	--	--	<.1	<.022	--	--	--	--	2	8.7
09...	--	--	--	--	--	--	--	1.8	39.6	41.5	.6	--	--
JUN													
13...	<10	<3.0	.58	--	--	.2	<.022	--	--	--	--	1	22
22...	<10	<3.0	.58	--	--	.2	<.022	--	--	--	--	2	59
27...	<10	<3.0	.51	--	--	.2	.044	--	--	--	--	3	113
JUL													
12...	<10	<3.0	.64	--	--	.3	.031	--	--	--	--	4	159
24...	<10	<3.0	.55	--	--	.2	.033	--	--	--	--	5	221
AUG													
07...	<10	<3.0	.51	--	--	E.2	E.017	--	--	--	--	2	73
SEP													
04...	<10	<3.0	.44	--	--	.2	.026	--	--	--	--	3	142

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT	
12...	--
NOV	
07...	--
JAN	
03...	83
FEB	
06...	96
MAR	
06...	--
MAY	
09...	--
09...	--
JUN	
13...	--
22...	--
27...	--
JUL	
12...	--
24...	82
AUG	
07...	--
SEP	
04...	--

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING--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
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	5.0	4.0	4.5	3.5	2.0	2.5	2.5	2.0	2.5
2	---	---	---	4.5	4.0	4.0	2.5	2.0	2.0	2.5	2.0	2.0
3	---	---	---	5.0	4.0	4.5	2.5	2.0	2.0	2.0	2.0	2.0
4	---	---	---	4.0	3.5	4.0	3.0	2.0	2.5	2.5	2.0	2.0
5	---	---	---	4.5	3.5	4.0	3.5	3.0	3.5	2.5	1.5	2.0
6	---	---	---	4.0	3.0	4.0	3.5	3.0	3.5	1.5	.5	1.0
7	---	---	---	4.5	3.0	3.5	3.5	3.0	3.5	2.0	1.0	1.5
8	---	---	---	4.5	3.5	4.0	3.5	3.0	3.5	2.5	2.0	2.5
9	---	---	---	4.5	4.0	4.5	3.5	2.5	3.0	2.5	2.5	2.5
10	---	---	---	5.0	4.0	4.5	3.0	2.5	3.0	2.5	1.0	2.0
11	---	---	---	5.0	4.0	4.5	3.5	3.0	3.5	1.5	.5	1.0
12	---	---	---	4.0	4.0	4.0	3.5	3.0	3.5	1.5	.5	1.0
13	7.0	6.0	6.5	4.0	3.5	4.0	3.0	2.5	3.0	2.0	1.5	2.0
14	7.0	6.0	6.5	4.5	4.0	4.5	3.0	2.0	2.5	3.0	2.0	2.5
15	6.5	6.0	6.5	4.0	3.5	4.0	2.5	2.0	2.5	3.0	2.5	2.5
16	7.0	6.0	6.5	4.0	3.5	4.0	2.5	2.0	2.0	2.5	2.0	2.0
17	6.5	6.0	6.0	4.0	3.5	4.0	2.0	1.5	2.0	2.5	1.5	2.0
18	6.5	6.0	6.0	4.0	3.5	4.0	3.0	2.0	2.5	3.0	2.5	2.5
19	6.5	5.5	6.0	4.5	4.0	4.0	3.5	2.5	3.0	3.0	2.5	2.5
20	6.5	5.5	6.0	4.5	4.0	4.5	3.0	2.5	3.0	3.0	2.5	2.5
21	5.5	4.5	5.0	4.5	4.0	4.0	2.5	2.0	2.5	2.5	2.5	2.5
22	5.5	4.5	5.0	4.0	4.0	4.0	2.0	1.5	2.0	2.5	2.5	2.5
23	6.0	5.0	5.5	4.0	3.5	4.0	2.0	1.5	2.0	2.5	2.0	2.5
24	5.5	5.0	5.5	3.5	3.0	3.0	2.0	1.5	2.0	2.5	2.0	2.0
25	6.0	5.0	5.5	3.5	3.0	3.5	2.5	1.5	2.0	2.5	2.0	2.5
26	5.5	5.0	5.5	3.5	3.0	3.0	2.5	2.0	2.5	2.5	2.0	2.5
27	5.5	4.5	5.0	3.5	3.0	3.5	2.5	2.0	2.0	2.5	2.0	2.5
28	5.5	4.5	4.5	4.0	3.0	3.5	3.0	2.0	2.5	2.0	1.5	2.0
29	5.0	4.5	5.0	4.5	4.0	4.0	3.0	3.0	3.0	2.0	1.5	1.5
30	4.5	3.5	4.0	4.0	3.5	4.0	3.0	2.5	3.0	1.5	1.0	1.5
31	5.0	4.0	5.0	---	---	---	3.0	2.5	3.0	1.5	1.5	1.5
MONTH	---	---	---	5.0	3.0	4.0	3.5	1.5	2.7	3.0	.5	2.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	1.0	1.5	2.0	1.0	1.0	---	---	---	---	---	---
2	2.0	1.5	2.0	3.0	.5	1.5	---	---	---	6.0	1.5	3.5
3	2.0	1.0	1.5	2.0	.0	1.0	---	---	---	5.0	2.0	3.5
4	1.5	1.0	1.5	1.5	.5	1.0	---	---	---	6.0	1.5	3.0
5	1.5	1.0	1.5	2.0	.0	1.0	---	---	---	9.5	1.5	4.5
6	2.0	1.5	1.5	2.5	1.0	1.5	---	---	---	7.0	3.5	4.5
7	2.0	1.0	1.5	4.0	.5	2.0	---	---	---	7.0	3.0	4.5
8	1.5	1.0	1.0	2.0	.5	1.0	---	---	---	7.5	3.5	5.0
9	2.0	1.0	1.5	3.5	.5	1.5	---	---	---	7.0	3.5	5.0
10	1.5	.5	1.0	4.5	1.5	2.5	---	---	---	8.0	3.5	5.5
11	1.5	.5	1.0	4.0	1.5	2.5	---	---	---	8.5	3.5	5.5
12	2.0	1.0	1.5	4.0	1.0	2.5	---	---	---	8.0	3.5	6.0
13	1.5	.5	1.0	5.5	.5	2.0	---	---	---	9.5	4.0	6.0
14	1.0	.0	.5	4.5	1.0	2.0	---	---	---	9.5	5.0	7.0
15	1.0	.0	.5	3.5	1.0	2.0	---	---	---	9.0	6.0	7.5
16	1.5	.0	1.0	6.5	.5	2.5	---	---	---	8.0	6.0	6.5
17	2.0	1.0	1.0	5.5	.0	1.5	---	---	---	8.5	4.5	6.0
18	1.5	.5	1.0	---	---	---	---	---	---	7.5	5.0	6.0
19	2.5	1.5	1.5	---	---	---	---	---	---	7.5	4.0	6.0
20	2.5	1.5	2.0	---	---	---	---	---	---	9.5	5.0	7.0
21	2.5	1.5	2.0	---	---	---	---	---	---	7.0	5.5	6.0
22	2.5	1.5	1.5	---	---	---	---	---	---	6.5	4.5	5.0
23	2.5	.5	1.5	---	---	---	---	---	---	6.0	4.0	5.0
24	2.5	.0	1.0	---	---	---	---	---	---	6.5	4.0	5.0
25	1.0	.5	1.0	---	---	---	---	---	---	5.5	4.0	5.0
26	1.5	.0	.5	---	---	---	---	---	---	5.5	4.0	4.5
27	2.5	.5	1.5	---	---	---	---	---	---	7.5	3.5	5.5
28	2.5	.0	1.0	---	---	---	---	---	---	8.0	4.5	6.0
29	---	---	---	---	---	---	---	---	---	8.0	5.0	6.0
30	---	---	---	---	---	---	---	---	---	7.0	4.5	5.5
31	---	---	---	---	---	---	---	---	---	7.5	4.0	5.5
MONTH	2.5	.0	1.3	---	---	---	---	---	---	---	---	---

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING--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
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	4.0	6.0	12.0	9.5	11.0	12.5	11.5	11.5	11.5	11.0	11.0
2	8.5	4.0	6.5	12.0	9.5	11.0	13.0	11.0	12.0	11.0	11.0	11.0
3	10.5	7.0	9.0	10.5	9.5	10.0	11.5	10.0	10.5	11.5	11.0	11.0
4	9.0	7.0	8.0	10.5	9.5	10.0	11.5	10.0	11.0	12.0	11.0	11.5
5	8.5	7.5	8.0	10.5	10.0	10.0	12.5	10.5	11.5	11.0	8.5	10.0
6	7.5	5.5	6.5	12.0	10.5	11.0	14.0	12.0	13.0	9.5	8.0	8.5
7	7.5	5.0	6.0	13.0	12.0	12.5	15.0	12.5	14.0	10.0	9.5	9.5
8	9.0	6.0	7.5	14.0	13.0	13.5	14.5	13.0	13.5	10.0	9.0	9.5
9	10.0	6.5	8.0	14.0	13.0	13.5	14.0	13.0	13.5	10.0	9.0	9.5
10	10.0	6.5	8.0	14.0	12.5	13.5	14.5	13.0	14.0	10.5	10.0	10.0
11	9.5	6.0	7.5	13.0	11.5	13.0	14.5	13.0	13.5	11.0	10.0	10.5
12	10.5	9.0	10.0	11.5	10.5	11.0	14.5	13.0	13.5	10.5	10.0	10.0
13	11.5	9.0	10.0	11.5	11.0	11.0	14.5	13.0	13.5	10.0	9.5	9.5
14	11.5	8.5	10.0	12.0	10.5	11.5	15.0	12.5	14.0	9.5	9.0	9.5
15	11.0	7.0	9.0	11.5	11.0	11.5	14.5	12.5	13.5	10.0	9.0	9.5
16	12.0	8.0	10.0	13.0	11.0	11.5	13.0	12.0	12.5	10.0	9.5	9.5
17	12.5	8.0	10.5	12.5	11.0	12.0	13.5	12.5	13.0	10.0	9.5	9.5
18	12.0	10.5	11.5	14.0	11.0	12.0	13.0	12.5	12.5	9.5	9.0	9.5
19	12.0	10.5	11.5	14.0	12.0	13.5	13.0	12.0	12.5	9.5	9.0	9.5
20	13.0	9.5	11.0	12.0	11.5	12.0	12.0	11.0	11.5	10.5	9.5	9.5
21	14.0	11.0	12.5	11.5	10.5	11.0	11.5	10.5	11.0	9.5	9.0	9.5
22	13.5	10.0	12.0	13.0	10.5	11.5	12.5	11.0	11.5	9.0	9.0	9.0
23	14.0	11.0	12.5	12.5	12.0	12.0	12.5	11.5	11.5	9.0	8.5	9.0
24	13.5	9.0	11.0	12.0	11.5	12.0	12.5	12.0	12.5	9.0	8.5	8.5
25	14.5	9.0	12.0	12.0	11.5	12.0	12.5	12.0	12.0	9.0	8.5	8.5
26	14.0	10.5	12.5	12.5	11.5	12.0	13.0	12.5	12.5	9.0	8.5	8.5
27	14.0	11.0	12.5	13.5	12.0	12.5	13.0	11.5	12.0	9.0	8.5	8.5
28	12.5	8.5	10.5	12.5	11.5	12.0	12.0	11.5	11.5	8.5	8.5	8.5
29	14.0	10.0	12.0	13.0	11.5	12.0	11.5	11.5	11.5	9.0	8.0	8.5
30	11.5	9.5	10.0	13.0	12.0	12.5	12.0	11.0	11.5	8.5	8.0	8.5
31	---	---	---	12.0	11.5	12.0	11.5	11.0	11.5	---	---	---
MONTH	14.5	4.0	9.7	14.0	9.5	11.8	15.0	10.0	12.4	12.0	8.0	9.5

15266150 KENAI RIVER BELOW MOUTH OF KILLEY RIVER NEAR STERLING

LOCATION.--Lat 60°29′28″, long 150°37′50″, in NW¼ SW¼ SE¼ sec. 26, T. 5 N., R. 8 W. (Kenai B-2 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, on right bank, 1.5 mi downstream from Killey River, 4.5 mi southeast of Sterling.

DRAINAGE AREA.--1,496 mi^2.

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water stage recorder. Elevation of gage is 230 ft above sea level, from topographic map.

REMARKS.--Records good except for February 15 which is fair. GOES satellite telemetry and phone modem 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	5520	3060	2750	2130	3530	1650	1180	1590	5190	18900	17900	19000
2	5390	2970	2620	2100	3380	1630	1220	1630	5660	18700	17500	18900
3	5280	2890	2590	2050	3210	1590	1290	1640	6080	18700	17100	18900
4	5190	2780	2580	2010	3070	1610	1180	1660	6610	18700	17000	18700
5	5080	2720	2660	2000	3000	1580	1180	1700	7000	18800	16700	18200
6	5030	2670	2660	1970	2980	1560	1170	1720	7340	18900	16100	17400
7	4980	2580	2650	2190	2810	1540	1180	1730	7680	18700	16000	16500
8	4930	2480	2580	2300	2690	1560	1180	1760	7940	18700	15900	15700
9	4830	2520	2530	2400	2620	1510	1180	1800	8200	18600	15700	14600
10	4690	2620	2470	2390	2510	1500	1330	1800	8490	18300	15500	13700
11	4600	2490	2470	2350	2430	1540	1320	1830	8750	18000	15000	12800
12	4490	2400	2380	2410	2410	1480	1300	1870	8990	17800	14600	12000
13	4460	2510	2310	2470	2340	1470	1310	1920	9220	17400	14400	11700
14	4570	2460	2300	2650	2250	1480	1300	1980	9380	16900	14400	11200
15	4510	2370	2200	2890	e2250	1420	1290	2070	9640	16500	14400	10900
16	4380	2420	2160	3190	2240	1410	1300	2170	10100	16600	14700	10700
17	4290	2490	2140	3280	2150	1390	1310	2270	10700	16400	14900	10600
18	4150	2430	2160	3510	1980	1370	1320	2380	11300	16400	15100	10800
19	4060	2500	2240	3980	1950	1330	1330	2470	11700	16600	15300	11100
20	3970	2500	2150	4050	1890	1300	1360	2620	12000	17500	15500	11500
21	3850	2630	2130	4140	1850	1280	1420	2790	12400	18500	16000	12000
22	3810	2670	2030	4250	1800	1260	1400	2930	13000	18900	16000	12800
23	3770	2700	1970	4310	1740	1250	1430	3070	13600	19100	16100	14200
24	3740	2700	1950	4410	1680	1260	1430	3220	14300	19300	16100	15800
25	3690	2660	1930	4320	1640	1230	1450	3380	15100	19400	16000	16000
26	3540	2590	1930	4300	1660	1210	1460	3550	15800	19400	15700	15700
27	3430	2560	1920	4130	1710	1200	1480	3730	16600	19300	15300	15300
28	3280	2680	1880	3970	1670	1190	1540	3890	17500	19100	15100	14400
29	3190	2860	1970	3810	---	1170	1530	4160	18300	18900	17200	13500
30	3180	2850	2090	3740	---	1190	1570	4470	18800	18400	18000	12700
31	3130	---	2170	3650	---	1200	---	4730	---	18100	18500	---
TOTAL	133010	78760	70570	97350	65440	43360	39940	78530	327370	565500	493700	427300
MEAN	4291	2625	2276	3140	2337	1399	1331	2533	10910	18240	15930	14240
MAX	5520	3060	2750	4410	3530	1650	1570	4730	18800	19400	18500	19000
MIN	3130	2370	1880	1970	1640	1170	1170	1590	5190	16400	14400	10600
AC-FT	263800	156200	140000	193100	129800	86000	79220	155800	649300	1122000	979300	847500
CFSM	2.87	1.75	1.52	2.10	1.56	.93	.89	1.69	7.29	12.2	10.6	9.52
IN.	3.31	1.96	1.75	2.42	1.63	1.08	.99	1.95	8.14	14.06	12.28	10.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)#

MEAN	6076	3393	1952	1850	1469	1130	1276	2660	9240	14710	12910	10710
MAX	7859	4451	2276	3140	2337	1399	1490	2962	11080	18240	15930	14240
(WY)	1998	2000	2001	2001	2001	2001	1998	1998	1998	2001	2001	2001
MIN	4291	2625	1646	1126	989	926	1010	2456	7701	12580	11020	6196
(WY)	2001	2001	1999	1999	1998	1999	1999	1999	1997	1999	1998	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001#	
ANNUAL TOTAL	1743040		2420830			
ANNUAL MEAN	4762		6632		5635	
HIGHEST ANNUAL MEAN					6632	2001
LOWEST ANNUAL MEAN					5010	2000
HIGHEST DAILY MEAN	15400	Jul 17	a19400	Jul 25	a19400	Jul 25 2001
LOWEST DAILY MEAN	1120	Mar 27	b1170	Mar 29	c800	Apr 19 1997
ANNUAL SEVEN-DAY MINIMUM	1140	Mar 22	1190	Mar 26	836	Apr 1 1999
MAXIMUM PEAK FLOW			d19600	Jul 24	d19600	Jul 24 2001
MAXIMUM PEAK STAGE			12.25	Sep 1	12.25	Sep 1 2001
INSTANTANEOUS LOW FLOW			1150	Apr 8	f	
ANNUAL RUNOFF (AC-FT)	3457000		4802000		4083000	
ANNUAL RUNOFF (CFSM)	3.18		4.43		3.77	
ANNUAL RUNOFF (INCHES)	43.34		60.20		51.18	
10 PERCENT EXCEEDS	12500		17400		14200	
50 PERCENT EXCEEDS	2660		3060		3730	
90 PERCENT EXCEEDS	1180		1410		1100	

\# See Period of Record, partial year used in monthly statistics
a Jul. 25 and 26
b Mar. 29 and Apr. 6
c Apr 19, 1997 and Apr. 6-7, 1999
d Jul. 24 and 25
e Estimated
f Not determined, see lowest daily mean

15266300 KENAI RIVER AT SOLDOTNA

LOCATION.--Lat 60°28′39″, long 151°04′46″, in W½ SW¼ sec. 32, T. 5 N., R. 10 W. (Kenai B-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, near center of span on downstream side of bridge on Sterling Highway, 1.0 mi southwest of Soldotna.

DRAINAGE AREA.--1,951 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1965 to current year.

REVISED RECORDS.--WRD AK-00-1 drainage area.

GAGE.--Water-stage recorder. Datum of gage is 35.34 ft above sea level. Prior to May 1, 1997, non-recording gage at same site and datum.

REMARKS.--Records good, except for estimated daily discharges, which are poor. GOES satellite telemetry and phone modem 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	5640	3260	2910	2210	3780	1840	1340	2330	5850	18400	18100	19300
2	5550	3170	2880	2180	3580	1820	1350	2330	6370	18300	17800	19500
3	5490	3100	2660	2210	3460	1870	1670	2300	6770	18100	17500	19800
4	5470	2990	2700	2120	3300	1890	1530	2290	7320	18300	17300	19600
5	5550	2950	2890	2110	3190	1790	1430	2310	7700	18400	17000	19300
6	5570	2920	2740	2160	3240	1750	1450	2350	8050	18600	16700	18600
7	5480	2850	2780	2430	3030	1710	1480	2390	8420	18200	16200	17800
8	5160	2660	2710	2540	2960	1730	1540	2390	8660	17800	16000	17000
9	5050	2700	2660	2510	2840	1730	1560	2460	8900	17700	15900	16200
10	4950	3030	2620	2550	2810	1770	1810	2500	9120	17300	15800	15400
11	4830	2970	2590	e2500	2690	1960	2220	2550	9340	17200	15500	14500
12	4750	2760	2510	e2500	2670	1790	2170	2630	9590	17000	15300	13800
13	4700	2880	2440	2550	2580	1690	2140	2730	9810	16800	15000	13200
14	4960	2870	2390	2770	e2500	1760	2140	2800	9970	16400	15000	12500
15	4910	2660	2290	3020	e2400	1740	2170	2980	10200	16200	15000	12100
16	4800	2740	2270	3300	2450	1700	2170	2970	10500	16300	15100	12000
17	4590	2810	2300	3370	2500	1640	2170	3010	11100	16200	15300	12100
18	4390	2730	2330	3620	2250	1620	2140	3070	11600	15900	15500	12200
19	4290	2850	2400	4000	2300	1650	2140	3170	12000	16200	15900	12500
20	4210	2880	2370	4160	2220	1630	2210	3330	12300	16800	16200	13000
21	4120	3020	2270	4230	2120	1590	2400	3540	12600	17600	16700	13500
22	4140	3100	2290	4340	2030	1560	2450	3660	13000	18100	16600	14100
23	4000	3060	2140	4410	1970	1530	2500	3790	13600	18400	16700	15200
24	3930	3100	2150	4510	e1900	1580	2480	3940	14200	18700	16600	16700
25	4030	2880	2170	4460	e1900	1570	2460	4110	15000	18900	16600	17000
26	3840	2690	2110	4480	e1800	1510	2450	4290	15600	19200	16400	16800
27	3660	2640	1960	4300	e1800	1490	2490	4510	16300	19500	15900	16200
28	3500	2730	2090	4160	1840	1440	2550	4770	16900	19200	15700	15400
29	3380	2980	2190	4010	---	1350	2500	4930	17600	19000	17200	14600
30	3480	3020	2280	3920	---	1360	2450	5280	18200	18800	18300	13600
31	3430	---	2370	3940	---	1370	---	5570	---	18300	18800	---
TOTAL	141850	87000	75460	101570	72110	51430	61560	101280	336570	551800	507600	463500
MEAN	4576	2900	2434	3276	2575	1659	2052	3267	11220	17800	16370	15450
MAX	5640	3260	2910	4510	3780	1960	2550	5570	18200	19500	18800	19800
MIN	3380	2640	1960	2110	1800	1350	1340	2290	5850	15900	15000	12000
AC-FT	281400	172600	149700	201500	143000	102000	122100	200900	667600	1094000	1007000	919400
CFSM	2.35	1.49	1.25	1.68	1.32	.85	1.05	1.67	5.75	9.12	8.39	7.92
IN.	2.70	1.66	1.44	1.94	1.37	.98	1.17	1.93	6.42	10.52	9.68	8.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)#

MEAN	7156	3447	2223	1864	1634	1341	1563	3141	8496	13480	14440	11770
MAX	14370	7335	5469	4290	4575	2696	2836	5645	12570	18740	24890	21280
(WY)	1970	1980	1977	1981	1981	1981	1980	1990	1980	1977	1977	1995
MIN	2852	1631	1132	823	822	800	812	1950	4940	9696	8706	5873
(WY)	1993	1974	1976	1976	1976	1976	1972	1973	1972	1973	1969	1969

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001#	
ANNUAL TOTAL	1839650		2551730			
ANNUAL MEAN	5026		6991		5926	
HIGHEST ANNUAL MEAN					8810	1977
LOWEST ANNUAL MEAN					4002	1973
HIGHEST DAILY MEAN	15500	Jul 22	19800	Sep 3	41400	Sep 24 1995
LOWEST DAILY MEAN	a1300	Mar 1	1340	Apr 1	b770	Apr 1 1966
ANNUAL SEVEN-DAY MINIMUM	1300	Mar 1	1390	Mar 27	774	Apr 1 1966
MAXIMUM PEAK FLOW			20000	Sep 3	42200	Sep 24 1995
MAXIMUM PEAK STAGE			10.84	Sep 3	14.50	Sep 24 1995
MAXIMUM PEAK STAGE					c22.62	Jan 18 1969
INSTANTANEOUS LOW FLOW			1300	Apr 1	770	Apr 1 1966
ANNUAL RUNOFF (AC-FT)	3649000		5061000		4293000	
ANNUAL RUNOFF (CFSM)	2.58		3.58		3.04	
ANNUAL RUNOFF (INCHES)	35.08		48.65		41.27	
10 PERCENT EXCEEDS	13100		17200		14200	
50 PERCENT EXCEEDS	2950		3330		3250	
90 PERCENT EXCEEDS	1400		1800		1200	

\# See Period of Record; partial years used in monthly statistics
a Mar. 1 to Mar. 29
b Apr. 1 to Apr. 4, 1996
c Backwater from ice
e Estimated

15266300 KENAI RIVER AT SOLDOTNA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952-53, 1955-56, 1958, 1967-74, 1977, 1979-81, 1998- September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: August 1979 to December 1979, August to November 1999, May to September 2001.
WATER TEMPERATURE: October 1998 to September 2001.

INSTRUMENTATION:--Electronic water-temperature recorder set at 15-minute recording interval.

REMARKS:--Sediment sampler for daily sediment samples is on upstream side of bridge. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the river average by cross section on October 4, February 7, and September 5. No variation was found within the cross-section, No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD:--
SEDIMENT CONCENTRATIONS: Maximum daily mean observed, 83 mg/L June 27, 29, 2001; minimum daily mean observed, 1 mg/L September 7, 9, and October 23, 1979.
SEDIMENT LOADS: Maximum daily observed, 3,940 tons (3,570 tonnes) June 29, 2001; minimum daily observed, 14 tons (13 tonnes) March 7, 2001.
WATER TEMPERATURE: Maximum 15.0°C, August 14, 2000, and August 7, 2001; minimum 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR:--
SEDIMENT CONCENTRATIONS: Maximum observed, 83 mg/L June 27, 29, 2001; minimum observed 2 mg/L February 7, May 14-15 2001.
SEDIMENT LOADS: Maximum daily observed, 3,940 tons (3,570 tonnes) June 29, 2001; minimum daily observed, 14 tons (13 tonnes) March 7, 2001.
WATER TEMPERATURE: Maximum 15.0°C, August 7; minimum 0.0°C on many days in winter.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD:--
SEDIMENT CONCENTRATIONS: Maximum observed, 151 mg/L July 14, 1979; minimum observed 1 mg/L March 24, 1971.
SEDIMENT LOADS: Maximum daily observed, 9,290 tons (8,430 tonnes) September 9, 1977; minimum daily observed, 3.1 tons (2.8 tonnes) March 24, 1971.

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

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT								
04...	1809	40.0	70	7.7	7.0	763	12.2	100
04...	1810	100	68	7.7	7.0	763	12.3	101
04...	1811	160	67	7.6	7.0	763	12.1	99.5
04...	1812	220	66	7.6	7.0	763	12.2	100
04...	1814	280	67	7.6	7.0	763	12.2	100
FEB								
07...	1135	118	69	8.2	1.0	768	13.6	94.9
07...	1137	173	66	8.2	1.0	768	13.4	93.5
07...	1139	228	66	8.1	1.0	768	13.3	92.8
07...	1141	283	66	8.1	1.0	768	13.3	92.8
SEP								
05...	1120	35.0	62	7.5	10.0	748	11.0	99.3
05...	1121	104	62	7.5	10.0	748	11.0	99.3
05...	1122	172	62	7.5	10.0	748	10.9	98.3
05...	1123	241	62	7.5	10.0	748	10.9	98.3
05...	1124	310	63	7.5	10.0	748	11.0	99.3

15266300 KENAI RIVER AT SOLDOTNA--Continued

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

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT													
04...	1800	9	9	322	7.49	5590	10	3053	1001	67	7.6	--	7.0
NOV													
22...	1320	9	9	222	6.53	3030	10	3039	1001	67	7.6	--	3.0
JAN													
04...	1220	9	9	221	7.02	2100	10	3053	1001	72	7.8	--	.5
FEB													
07...	1120	9	9	220	6.50	3000	10	3053	1001	67	8.1	-1.0	1.0
MAR													
07...	1150	9	9	208	5.77	1740	10	3053	1001	70	7.5	5.5	1.5
MAY													
10...	1210	9	9	225	6.10	2490	10	3053	1001	72	8.0	.5	5.5
10...	1211	D	9	--	--	--	--	--	1099	--	--	--	--
JUN													
07...	1020	9	9	233	8.22	8450	10	3053	1001	63	8.1	15.5	6.5
21...	1320	9	9	335	9.45	12600	10	3053	1001	66	7.7	--	11.0
28...	1050	9	9	276	10.36	16900	10	3053	1001	62	7.9	22.5	9.5
JUL													
13...	1240	9	9	360	10.35	16400	10	3053	1001	64	7.6	16.0	11.5
24...	1140	9	9	350	10.67	18700	10	3053	1002	62	7.6	16.0	12.0
AUG													
08...	1130	9	9	365	9.94	16000	10	3053	1001	68	7.6	--	14.0
SEP													
05...	1130	9	9	345	10.63	19400	10	3053	1001	62	7.5	-	10.0

15266300 KENAI RIVER AT SOLDOTNA--Continued

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

DATE	BARO-METRIC PRES-SURE (MMOF HG) (00025)	OXYGEN DIS-OLVED (MG/L) (00300)	OXYGEN, DIS-OLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/S AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT													
04...	763	12.2	100	28	9.82	.824	1.3	24	.85	29	23	6.2	.8
NOV													
22...	744	13.2	100	--	--	--	--	26	--	30	25	--	--
JAN													
04...	750	14.3	101	29	10.1	.991	1.4	27	.85	31	26	5.6	1.0
FEB													
07...	768	13.5	94	31	10.8	.923	1.4	28	.83	34	28	6.0	.9
MAR													
07...	758	--	--	31	10.7	1.11	1.5	28	.97	31	26	6.0	1.1
MAY													
10...	765	12.4	98	31	10.3	1.24	1.8	30	.85	36	30	5.0	1.1
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
07...	765	12.5	101	27	9.53	.838	1.3	24	.75	28	23	6.1	.9
21...	765	10.4	94	26	9.04	.741	1.1	22	.78	26	21	5.7	1.1
28...	766	12.2	106	26	9.27	.757	1.1	22	.78	25	20	6.2	.8
JUL													
13...	764	11.6	106	28	9.87	.790	1.2	24	.70	29	24	6.1	1.1
24...	768	10.4	96	28	9.99	.807	1.2	26	.70	30	25	6.4	.8
AUG													
08...	777	10.5	100	29	10.2	.812	1.2	23	.66	27	22	6.3	.8
SEP													
05...	748	11.0	99	28	9.96	.783	1.3	22	.70	25	21	6.3	.7

DATE	FLOU-RIDE DIS-SOLVED (MG/L AS F) (00950)	SILCA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOL-IDS, RISI-DUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOL-IDS, SUM OF CON-STITU-ENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMO-NIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMO-NIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMO-NIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT													
04...	<.2	3.6	42	38	.001	.165	.045	.17	E.06	.029	.008	.009	20
NOV													
22...	--	--	--	--	<.001	.154	.017	<.08	<.10	.013	E.004	E.005	--
JAN													
04...	<.2	4.4	47	40	.002	.205	<.002	E.05	E.06	.009	E.004	<.007	20
FEB													
07...	<.2	3.9	41	42	.002	.180	.004	E.04	<.10	.006	E.003	<.007	20
MAR													
07...	<.2	4.4	47	42	.001	.152	.006	E.04	<.10	.009	E.003	<.007	40
MAY													
10...	<.2	4.7	53	43	.001	.084	<.002	.12	E.09	.011	<.006	<.007	110
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
07...	<.2	3.9	36	38	.001	.207	.003	E.08	<.10	.030	E.003	<.007	20
21...	E.1	3.4	38	35	<.001	.158	.002	.11	<.10	.042	<.006	<.007	10
28...	<.2	3.4	38	35	.001	.173	.007	E.08	<.10	.036	<.006	<.007	M
JUL													
13...	<.2	3.5	42	38	.001	.139	.002	E.06	<.10	.009	<.006	<.007	10
24...	<.2	3.6	35	39	.001	.157	.003	E.04	<.10	.014	<.006	<.007	M
AUG													
08...	<.2	3.5	56	37	.001	.130	.003	<.08	<.10	.011	<.006	<.007	M
SEP													
05...	<.2	3.5	44	36	.001	.142	<.002	E.07	<.10	.010	<.006	<.007	20

15266300 KENAI RIVER AT SOLDOTNA--Continued

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

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CAR-BON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CAR-BON, INOR-GANIC, PAR-TIC. TOTAL (MG/L AS C) (00688)	CAR-BON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CAR-BON, INORG + ORGANIC PAR-TIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN, PARTIC-ULATE WAT FLT SUSP (MG/L AS N) (49570)	CHLOR-A PERIPH-YTON CHROMO-GRAPHIC FLUO-ROM (MG/M2) (70957)	PERIPH-YTON BIO-MASS ASH WEIGHT G/SQ M (00572)	PERIPH-YTON BIO-MASS TOTAL DRY WEIGHT G/SQ M (00573)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT													
04...	4.7	.74	<.1	.2	.2	.025	--	--	--	--	7	106	--
NOV													
22...	--	.91	<.1	.2	.2	<.022	--	--	--	--	7	57	80
JAN													
04...	9.7	.66	<.1	<.1	<.1	<.022	--	--	--	--	3	17	98
FEB													
07...	6.5	.65	<.1	.2	.2	.034	--	--	--	--	2	16	100
MAR													
07...	12.2	.76	<.1	.1	.2	.030	--	--	--	--	3	14	--
MAY													
10...	7.4	2.0	--	--	.3	.035	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	48.4	299.0	336.9	48	--	--	--
JUN													
07...	5.3	1.1	--	--	.6	.035	--	--	--	--	33	753	66
21...	E2.5	1.1	--	--	.5	.055	--	--	--	--	44	1500	--
28...	E1.9	.82	--	--	E.6	.050	--	--	--	--	88	4020	--
JUL													
13...	E1.8	1.5	--	--	.3	<.022	--	--	--	--	27	1200	--
24...	<3.0	.68	--	--	.3	.028	--	--	--	--	34	1720	74
AUG													
08...	<3.0	.77	--	--	E.2	E.027	--	--	--	--	8	346	--
SEP													
05...	<3.0	.59	--	--	.2	.040	--	--	--	--	19	995	59

15266300 KENAI RIVER AT SOLDOTNA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	5640	---	---	3260	---	---	2910	---	---
2	5550	---	---	3170	---	---	2880	---	---
3	5490	---	---	3100	---	---	2660	---	---
4	5470	7	103	2990	---	---	2700	---	---
5	5550	---	---	2950	---	---	2890	---	---
6	5570	---	---	2920	---	---	2740	---	---
7	5480	---	---	2850	---	---	2780	---	---
8	5160	---	---	2660	---	---	2710	---	---
9	5050	---	---	2700	---	---	2660	---	---
10	4950	---	---	3030	---	---	2620	---	---
11	4830	---	---	2970	---	---	2590	---	---
12	4750	---	---	2760	---	---	2510	---	---
13	4700	---	---	2880	---	---	2440	---	---
14	4960	---	---	2870	---	---	2390	---	---
15	4910	---	---	2660	---	---	2290	---	---
16	4800	---	---	2740	---	---	2270	---	---
17	4590	---	---	2810	---	---	2300	---	---
18	4390	---	---	2730	---	---	2330	---	---
19	4290	---	---	2850	---	---	2400	---	---
20	4210	---	---	2880	---	---	2370	---	---
21	4120	---	---	3020	---	---	2270	---	---
22	4140	---	---	3100	7	59	2290	---	---
23	4000	---	---	3060	---	---	2140	---	---
24	3930	---	---	3100	---	---	2150	---	---
25	4030	---	---	2880	---	---	2170	---	---
26	3840	---	---	2690	---	---	2110	---	---
27	3660	---	---	2640	---	---	1960	---	---
28	3500	---	---	2730	---	---	2090	---	---
29	3380	---	---	2980	---	---	2190	---	---
30	3480	---	---	3020	---	---	2280	---	---
31	3430	---	---	---	---	---	2370	---	---
TOTAL	141850	---	---	87000	---	---	75460	---	---

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	2210	---	---	3780	---	---	1840	---	---
2	2180	---	---	3580	---	---	1820	---	---
3	2210	---	---	3460	---	---	1870	---	---
4	2120	3	17	3300	---	---	1890	---	---
5	2110	---	---	3190	---	---	1790	---	---
6	2160	---	---	3240	---	---	1750	---	---
7	2430	---	---	3030	2	16	1710	3	14
8	2540	---	---	2960	---	---	1730	---	---
9	2510	---	---	2840	---	---	1730	---	---
10	2550	---	---	2810	---	---	1770	---	---
11	e2500	---	---	2690	---	---	1960	---	---
12	e2500	---	---	2670	---	---	1790	---	---
13	2550	---	---	2580	---	---	1690	---	---
14	2770	---	---	e2500	---	---	1760	---	---
15	3020	---	---	e2400	---	---	1740	---	---
16	3300	---	---	2450	---	---	1700	---	---
17	3370	---	---	2500	---	---	1640	---	---
18	3620	---	---	2250	---	---	1620	---	---
19	4000	---	---	2300	---	---	1650	---	---
20	4160	---	---	2220	---	---	1630	---	---
21	4230	---	---	2120	---	---	1590	---	---
22	4340	---	---	2030	---	---	1560	---	---
23	4410	---	---	1970	---	---	1530	---	---
24	4510	---	---	e1900	---	---	1580	---	---
25	4460	---	---	e1900	---	---	1570	---	---
26	4480	---	---	e1800	---	---	1510	---	---
27	4300	---	---	e1800	---	---	1490	---	---
28	4160	---	---	1840	---	---	1440	---	---
29	4010	---	---	---	---	---	1350	---	---
30	3920	---	---	---	---	---	1360	---	---
31	3940	---	---	---	---	---	1370	---	---
TOTAL	101570	---	---	72110	---	---	51430	---	---

15266300 KENAI RIVER AT SOLDOTNA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	APRIL			MAY			JUNE		
1	1340	---	---	2330	---	---	5850	67	1060
2	1350	---	---	2330	---	---	6370	57	980
3	1670	---	---	2300	---	---	6770	71	1300
4	1530	---	---	2290	---	---	7320	79	1560
5	1430	---	---	2310	---	---	7700	51	1060
6	1450	---	---	2350	---	---	8050	47	1020
7	1480	---	---	2390	---	---	8420	41	932
8	1540	---	---	2390	---	---	8660	31	725
9	1560	---	---	2460	---	---	8900	35	841
10	1810	---	---	2500	---	---	9120	28	689
11	2220	---	---	2550	---	---	9340	40	1010
12	2170	---	---	2630	---	---	9590	48	1240
13	2140	---	---	2730	---	---	9810	31	821
14	2140	---	---	2800	2	15	9970	32	861
15	2170	---	---	2980	2	16	10200	---	---
16	2170	---	---	2970	10	80	10500	42	1190
17	2170	---	---	3010	23	187	11100	63	1890
18	2140	---	---	3070	7	58	11600	81	2540
19	2140	---	---	3170	11	94	12000	---	---
20	2210	---	---	3330	9	81	12300	56	1860
21	2400	---	---	3540	14	134	12600	56	1910
22	2450	---	---	3660	18	178	13000	58	2040
23	2500	---	---	3790	17	174	13600	39	1430
24	2480	---	---	3940	10	106	14200	---	---
25	2460	---	---	4110	25	277	15000	---	---
26	2450	---	---	4290	15	174	15600	74	3120
27	2490	---	---	4510	22	268	16300	83	3650
28	2550	---	---	4770	12	155	16900	82	3740
29	2500	---	---	4930	23	306	17600	83	3940
30	2450	---	---	5280	49	699	18200	77	3780
31	---	---	---	5570	48	722	---	---	---
TOTAL	61560	---	---	101280	---	---	336570	---	---

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	JULY			AUGUST			SEPTEMBER		
1	18400	---	---	18100	19	929	19300	44	2290
2	18300	56	2770	17800	22	1060	19500	25	1320
3	18100	43	2100	17500	17	803	19800	---	---
4	18300	40	1980	17300	24	1120	19600	35	1850
5	18400	46	2290	17000	8	367	19300	27	1410
6	18600	42	2110	16700	12	541	18600	30	1510
7	18200	34	1670	16200	23	1010	17800	42	2020
8	17800	38	1830	16000	4	173	17000	14	643
9	17700	35	1670	15900	18	773	16200	13	569
10	17300	44	2060	15800	19	811	15400	9	374
11	17200	26	1210	15500	15	628	14500	11	431
12	17000	24	1100	15300	9	372	13800	17	633
13	16800	20	907	15000	15	608	13200	6	214
14	16400	30	1330	15000	7	284	12500	12	405
15	16200	25	1090	15000	9	364	12100	8	261
16	16300	21	924	15100	17	693	12000	---	---
17	16200	24	1050	15300	13	537	12100	8	261
18	15900	11	472	15500	18	753	12200	6	198
19	16200	10	437	15900	13	558	12500	8	270
20	16800	---	---	16200	15	656	13000	10	351
21	17600	61	2900	16700	26	1170	13500	12	437
22	18100	45	2200	16600	11	493	14100	8	305
23	18400	40	1990	16700	15	676	15200	23	944
24	18700	36	1820	16600	8	359	16700	33	1490
25	18900	38	1940	16600	23	1030	17000	6	275
26	19200	26	1350	16400	14	620	16800	18	816
27	19500	31	1630	15900	8	343	16200	20	875
28	19200	20	1040	15700	8	339	15400	13	541
29	19000	19	975	17200	---	---	14600	8	315
30	18800	27	1370	18300	42	2080	13600	8	294
31	18300	8	395	18800	26	1320	---	---	---
TOTAL	551800	---	---	507600	---	---	463500	---	---

15266300 KENAI RIVER AT SOLDOTNA--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
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	6.0	6.5	4.0	3.0	3.0	2.0	.0	1.0	2.0	1.0	1.5
2	7.0	6.0	6.5	3.0	2.5	2.5	.5	.0	.0	1.5	.5	1.0
3	7.0	6.5	6.5	3.0	2.5	3.0	1.0	.0	.5	1.0	.0	.5
4	7.0	6.5	7.0	3.0	2.0	2.5	1.5	.5	1.0	1.0	.0	.5
5	7.0	6.0	6.5	3.5	2.5	3.0	3.0	1.5	2.0	1.0	.0	.5
6	7.5	6.5	7.0	3.0	2.0	2.5	2.5	2.0	2.5	.5	.0	.0
7	7.5	6.5	7.0	3.0	2.0	2.5	3.0	2.0	2.5	1.0	.0	.5
8	7.0	6.0	6.5	3.0	1.5	2.5	2.5	1.5	2.0	2.0	1.0	1.5
9	7.0	6.0	6.5	3.5	2.5	3.0	2.5	1.5	2.0	1.5	1.0	1.5
10	6.0	5.0	5.5	4.0	3.0	3.5	2.0	1.5	1.5	1.5	.0	1.0
11	6.0	5.0	5.5	4.0	2.5	3.5	2.5	1.5	2.0	.5	.0	.0
12	6.5	5.5	6.0	2.5	2.0	2.5	2.5	1.5	2.0	.5	.0	.0
13	6.0	5.0	6.0	3.5	2.5	3.0	2.0	1.0	1.5	1.5	.5	1.0
14	6.5	5.5	6.0	3.0	2.5	3.0	1.5	.5	1.0	2.5	1.0	1.5
15	6.0	5.0	5.5	2.5	1.5	2.0	1.0	.0	.5	2.5	1.5	2.0
16	6.0	5.5	5.5	3.0	2.0	2.5	1.0	.0	.5	2.0	1.0	1.0
17	6.0	5.0	5.5	3.0	2.0	2.5	.5	.0	.0	1.5	.5	1.0
18	5.5	5.0	5.5	3.0	2.0	2.5	2.0	.0	1.0	2.5	1.5	2.0
19	5.5	4.0	5.0	3.5	2.5	3.0	2.5	1.5	2.0	2.5	2.0	2.0
20	5.5	4.5	5.0	3.5	3.0	3.5	2.0	1.5	2.0	2.0	1.5	2.0
21	5.0	3.5	4.5	3.5	3.0	3.0	2.0	.5	1.5	2.0	1.5	2.0
22	4.5	3.5	4.0	3.0	2.5	3.0	.5	.0	.0	2.5	1.5	2.0
23	5.0	4.0	4.5	3.0	2.0	2.5	.5	.0	.5	2.0	1.5	2.0
24	5.0	4.0	4.5	2.5	1.5	2.0	1.0	.5	1.0	2.0	1.5	2.0
25	5.0	4.5	4.5	2.0	1.5	1.5	1.0	.5	1.0	2.0	1.5	1.5
26	4.5	4.0	4.5	2.0	.5	1.0	1.5	1.0	1.0	2.0	1.5	2.0
27	4.0	3.0	3.5	2.0	1.5	2.0	1.5	.5	1.0	2.0	1.5	2.0
28	3.5	2.5	3.0	3.0	2.0	2.5	2.0	1.0	1.5	1.5	.5	1.0
29	4.0	3.0	3.5	3.5	2.5	3.0	2.5	1.5	2.0	1.5	.5	1.0
30	3.5	2.5	3.0	3.0	2.0	3.0	2.5	1.5	2.0	1.0	.5	1.0
31	4.0	2.5	3.5	---	---	---	2.0	1.5	2.0	1.5	.5	1.0
MONTH	7.5	2.5	5.3	4.0	.5	2.7	3.0	.0	1.3	2.5	.0	1.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	.0	1.0	1.0	.0	.5	3.0	.0	1.5	6.0	4.0	5.0
2	1.0	.0	.5	1.0	.0	.5	3.5	1.0	2.5	5.0	3.0	4.0
3	1.0	.0	.5	.5	.0	.0	3.0	2.0	2.5	4.5	3.0	3.5
4	1.0	.0	.5	1.0	.0	.0	3.0	2.0	2.5	4.0	2.0	3.0
5	1.0	.5	.5	2.0	.5	1.5	3.5	.0	2.0	5.0	1.5	3.5
6	1.5	.5	1.0	2.0	1.0	1.5	3.0	.5	2.0	5.5	3.5	4.5
7	2.0	.5	1.5	2.5	1.0	1.5	3.0	1.0	2.0	6.5	4.0	5.0
8	1.0	.0	.0	1.5	.5	1.0	4.5	1.5	3.0	6.5	4.0	5.0
9	.5	.0	.0	2.0	.5	1.5	3.5	1.5	2.5	6.5	4.5	5.5
10	.5	.0	.0	3.0	1.5	2.0	3.5	1.5	3.0	7.0	4.5	6.0
11	.5	.0	.0	3.0	2.0	2.5	4.5	2.0	3.0	8.0	4.0	6.0
12	1.0	.0	.5	3.0	2.0	2.5	4.0	2.0	3.0	9.0	5.0	7.0
13	1.0	.0	.0	2.5	.5	1.5	4.0	1.5	2.5	9.5	5.5	7.5
14	.5	.0	.0	2.5	1.0	2.0	5.0	1.5	3.0	10.0	6.0	8.0
15	.5	.0	.0	2.0	1.0	1.5	4.0	1.5	3.0	10.5	7.5	9.0
16	.5	.0	.0	3.0	1.0	2.0	4.5	2.0	3.0	9.5	7.5	8.0
17	1.0	.0	.5	2.5	.5	1.5	4.5	2.0	3.0	8.5	6.0	7.5
18	1.0	.0	.5	1.5	.0	1.0	5.0	2.0	3.0	9.5	6.5	8.0
19	2.0	.0	1.0	1.0	.0	.5	5.0	2.5	3.5	8.5	6.0	7.0
20	2.0	1.0	1.5	1.0	.0	.5	5.5	2.0	4.0	9.0	6.5	7.5
21	2.0	1.5	1.5	1.0	.0	.5	5.5	3.5	4.5	8.5	7.0	8.0
22	1.5	1.0	1.5	.5	.0	.0	6.0	3.0	4.5	7.5	5.5	6.5
23	1.5	.0	.5	.5	.0	.0	5.5	3.0	4.0	7.5	5.0	6.5
24	.5	.0	.0	.0	.0	.0	6.0	2.5	4.5	7.5	5.5	6.5
25	.5	.0	.0	.5	.0	.0	5.5	3.5	4.5	7.0	5.5	6.0
26	1.0	.0	.5	2.0	.0	1.0	7.0	4.0	5.5	6.5	5.0	5.5
27	1.5	.5	1.0	3.0	1.0	2.0	6.0	4.0	5.0	8.5	4.5	6.5
28	1.0	.0	.5	3.5	1.5	2.5	5.5	4.0	4.5	9.5	7.0	8.0
29	---	---	---	3.0	1.0	2.0	7.0	3.5	5.0	9.5	7.5	8.5
30	---	---	---	2.0	.5	1.0	7.0	4.5	6.0	9.0	7.0	8.0
31	---	---	---	3.0	.0	1.5	---	---	---	8.0	6.5	7.5
MONTH	2.0	.0	.5	3.5	.0	1.2	7.0	.0	3.4	10.5	1.5	6.4

15266300 KENAI RIVER AT SOLDOTNA--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
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.0	6.5	8.0	11.5	9.0	10.5	12.5	10.5	11.5	11.5	10.0	11.0
2	10.0	7.0	8.5	12.5	9.0	11.0	13.0	11.0	12.0	11.5	10.5	11.0
3	11.5	8.0	9.5	11.5	9.0	10.0	12.5	10.5	11.0	11.5	10.5	11.0
4	10.5	8.0	9.0	11.0	8.5	10.0	11.5	10.0	10.5	11.5	11.0	11.0
5	9.5	8.0	8.5	10.5	9.0	10.0	12.5	10.5	11.0	11.0	9.5	10.0
6	9.0	7.0	8.0	11.5	10.0	11.0	13.5	11.0	12.5	9.5	8.0	8.5
7	8.0	6.0	7.0	12.5	11.0	12.0	15.0	12.0	13.5	10.0	9.0	9.5
8	9.5	6.5	8.0	13.5	11.5	12.5	14.5	13.0	14.0	10.0	9.0	9.5
9	10.5	7.5	8.5	13.5	12.0	13.0	14.0	12.5	13.0	10.5	8.5	9.5
10	10.0	8.0	9.0	13.5	12.5	13.0	14.0	13.0	13.5	10.5	9.0	10.0
11	9.5	7.0	8.0	13.0	12.0	12.5	14.0	12.5	13.5	10.5	9.5	10.0
12	10.0	7.5	9.0	12.5	10.5	11.0	14.0	12.5	13.5	10.5	9.5	10.0
13	11.0	9.0	10.0	11.5	10.0	11.0	14.5	12.5	13.5	10.0	9.0	9.5
14	11.5	9.0	10.0	12.0	10.0	11.0	14.5	12.0	13.5	9.5	9.0	9.5
15	11.0	7.5	9.5	11.5	10.5	11.0	14.5	13.5	14.0	10.0	8.5	9.5
16	12.5	8.0	10.0	11.5	10.0	11.0	13.5	12.0	12.5	10.5	9.0	9.5
17	12.0	8.5	10.5	12.5	10.5	11.5	13.5	12.0	12.5	10.0	9.0	9.5
18	12.0	9.5	11.0	12.0	10.5	11.5	13.0	12.0	12.5	10.0	9.0	9.5
19	12.0	10.0	11.0	14.0	11.5	13.0	12.5	11.5	12.0	9.5	9.0	9.5
20	12.0	10.0	11.0	13.0	11.0	11.5	12.5	11.0	11.5	10.0	9.0	9.5
21	13.0	11.0	12.0	12.0	10.0	11.0	11.5	10.5	11.0	9.5	9.0	9.5
22	13.5	9.5	12.0	12.0	10.0	10.5	12.5	10.5	11.5	9.0	8.0	8.5
23	13.0	11.0	12.5	12.0	11.5	12.0	12.0	10.5	11.5	9.0	8.5	8.5
24	13.0	9.5	11.5	12.0	11.0	11.5	12.5	11.0	12.0	8.5	8.0	8.5
25	13.5	8.5	11.0	12.0	11.0	11.5	12.5	11.5	12.0	9.0	8.0	8.5
26	13.5	10.0	12.0	13.0	10.5	12.0	13.0	11.5	12.5	9.0	8.0	8.5
27	13.0	10.0	12.0	13.5	11.5	12.5	12.5	12.0	12.0	8.5	8.0	8.5
28	13.0	9.0	11.0	13.0	11.5	12.5	12.0	11.0	11.5	8.5	8.0	8.5
29	14.0	9.5	12.0	12.5	10.5	12.0	11.5	10.5	11.0	8.5	7.5	8.0
30	12.5	9.5	10.5	12.5	12.0	12.5	11.5	10.5	11.0	8.5	7.5	8.0
31	---	---	---	12.5	11.5	12.0	11.5	10.5	11.0	---	---	---
MONTH	14.0	6.0	10.0	14.0	8.5	11.5	15.0	10.0	12.2	11.5	7.5	9.4
YEAR	15.0	.0	5.5									

15271000 SIXMILE CREEK NEAR HOPE

LOCATION.--Lat 60°49′15″, long 149°25′31″, in SW¼ SE¼ sec. 34, T. 8 N., R. 1 W. (Seward D-7 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, Chugach National Forest, on left bank, 6.0 mi upstream from mouth at Turnagain Arm, and 10.6 mi southeast of Hope.

DRAINAGE AREA.-- 234 mi^2

PERIOD OF RECORD.--June 1979 to September 1990, August 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level, from topographic map. Prior to November 26, 1979, recording gage at site 0.8 mi downstream at different datum.

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

EXTREMES FOR CURRENT PERIOD.--Peak discharges greater than base discharge of 3,500 ft^3/s and maximum (*)

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jun 28	01:45	6370	12.73	Aug 29	02:30	*6930	*12.94
Jul 20	10:15	4050	11.72				

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	635	409	296	482	282	174	129	488	2690	4150	2170	2510
2	608	394	294	399	258	167	131	449	2990	4170	2190	2030
3	582	368	399	375	260	161	134	424	3140	4180	2230	1970
4	564	361	352	340	272	178	132	384	2990	3890	2160	1910
5	596	377	347	298	269	166	128	348	2890	4150	2030	1940
6	604	363	341	316	252	163	126	329	2900	3990	1890	1580
7	738	359	318	389	237	160	126	328	2670	3790	1780	1420
8	1110	346	294	388	226	156	127	355	2560	3710	1720	1230
9	811	347	264	345	222	161	126	399	2710	3460	1640	1100
10	728	376	332	314	217	158	129	426	3000	3340	1550	1010
11	706	405	291	301	234	159	145	480	3140	3160	1470	937
12	681	328	277	304	225	158	149	533	3040	3070	1590	1230
13	653	355	262	288	194	154	147	598	3000	2890	1680	1430
14	1000	359	305	324	190	154	144	702	3140	2740	1780	1110
15	866	320	352	506	222	160	143	870	3550	2800	1700	1010
16	957	346	291	460	214	156	149	1040	3900	2760	1640	959
17	994	338	265	512	194	150	154	1110	4370	2860	1520	1010
18	843	338	276	777	185	142	163	1130	4540	2910	1570	1070
19	747	350	281	1230	204	137	179	1170	4430	3100	1410	1130
20	682	409	276	811	187	141	199	1410	4240	3780	2200	996
21	628	624	284	660	182	142	216	1530	4470	3500	1900	1100
22	638	579	255	587	177	141	232	1530	4750	3400	1610	1090
23	601	489	302	516	e175	156	258	1460	5260	3060	1330	1350
24	557	472	274	446	e180	146	263	1480	5600	2750	1210	3110
25	554	429	308	398	199	148	292	1480	5290	2690	1110	2280
26	515	362	288	369	186	148	330	1420	5570	2670	1020	1730
27	459	321	276	350	194	147	374	1400	5850	2640	1010	1430
28	403	398	282	306	186	138	460	1640	5890	2520	2870	1350
29	424	369	396	322	---	135	472	1960	5480	2300	4710	1220
30	466	339	595	309	---	135	487	2290	4670	2190	3550	1060
31	446	---	619	295	---	132	---	2560	---	2230	3360	---
TOTAL	20796	11630	9992	13717	6023	4723	6244	31723	118720	98850	59600	43302
MEAN	671	388	322	442	215	152	208	1023	3957	3189	1923	1443
MAX	1110	624	619	1230	282	178	487	2560	5890	4180	4710	3110
MIN	403	320	255	288	175	132	126	328	2560	2190	1010	937
AC-FT	41250	23070	19820	27210	11950	9370	12380	62920	235500	196100	118200	85890
CFSM	2.87	1.66	1.38	1.89	.92	.65	.89	4.37	16.9	13.6	8.22	6.17
IN.	3.31	1.85	1.59	2.18	.96	.75	.99	5.04	18.87	15.71	9.47	6.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)#

MEAN	888	420	267	231	175	155	250	1237	2729	2289	1331	1046
MAX	1777	654	353	528	306	240	397	1811	3957	3986	2699	1556
(WY)	1981	1980	2000	1981	1981	1984	1990	1981	2001	1980	1981	1999
MIN	500	221	198	133	113	106	119	748	1736	1166	760	607
(WY)	1998	1986	1999	1999	1999	1999	1985	1985	1989	1990	1990	1983

\# See Period of Record; partial years used in monthly statistics
e Estimated

15271000 SIXMILE CREEK NEAR HOPE--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001#	
ANNUAL TOTAL	337082		425320			
ANNUAL MEAN	921		1165		930	
HIGHEST ANNUAL MEAN					1335	1980
LOWEST ANNUAL MEAN					675	1986
HIGHEST DAILY MEAN	4520	Jun 8	5890	Jun 28	7570	Jul 12 1980
LOWEST DAILY MEAN	a137	Apr 1	b126	Apr 6	80	cApr 1 1986
ANNUAL SEVEN-DAY MINIMUM	140	Mar 22	128	Apr 4	80	Apr 1 1986
MAXIMUM PEAK FLOW			6930	Aug 29	d8070	Jul 2 1980
MAXIMUM PEAK STAGE			12.94	Aug 29	13.22	Jul 2 1980
INSTANTANEOUS LOW FLOW					f29.0	Nov 26 1979
ANNUAL RUNOFF (AC-FT)	668600		843600		674100	
ANNUAL RUNOFF (CFSM)	3.94		4.98		3.98	
ANNUAL RUNOFF (INCHES)	53.59		67.61		54.03	
10 PERCENT EXCEEDS	2670		3120		2450	
50 PERCENT EXCEEDS	526		487		554	
90 PERCENT EXCEEDS	150		157		140	

\# See Period of Record; partial years used in monthly statistics
a Apr. 1 and Apr. 2
b Apr. 6, Apr. 7 and Apr. 9
c Apr. 1 to Apr. 9, 1986
d Peak discharge was probably greater sometime during the period, Nov. 26, 1979 to Jan. 9, 1980, during release from storage behind snow-avalanche dam upstream from former gage site
f Sometime between Nov. 26, 1979 and Jan. 9, 1980, during release from storage behind snow-avalanche dam upstream from former gage site, site and datum then in use

15272280 PORTAGE CREEK AT PORTAGE LAKE OUTLET NEAR WHITTIER

LOCATION.--Lat 60°47′07″, long 148°50′20″, in SW¼ NE¼ sec. 13, T. 8 N., R. 3 E. (Seward D-5 SW quad), Municipality of Anchorage, Hydrologic Unit 19020302, on left bank at lake outlet, 5.0 mi west of Whittier, 5.8 mi southeast of Portage, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--40.5 mi^2.

PERIOD OF RECORD.--March 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 95 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except for March 1-4, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s, August 19, 1984 (elevation about 97.05 ft above sea level from USFS levels) by contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 4,600 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Aug 20	1415	4690	7.18	Sep 24	0515	4620	7.14
Aug 29	0100	*9200	*9.23				

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	423	195	231	560	222	179	103	238	584	1770	1630	3280
2	360	185	194	392	187	159	101	224	665	1750	1730	2010
3	315	169	185	289	159	123	148	217	779	1810	1830	1490
4	287	159	219	232	143	128	141	207	814	1770	1820	1880
5	351	151	289	191	144	192	119	193	795	2020	1770	2880
6	706	150	296	184	152	248	104	206	788	2150	1700	1890
7	1370	155	283	401	138	248	94	193	743	1830	1630	1420
8	1530	153	237	485	121	219	89	171	691	1580	1540	1100
9	990	160	199	415	108	254	87	162	694	1480	1440	867
10	725	287	193	286	100	241	98	164	738	1480	1350	720
11	625	408	201	239	98	245	155	157	817	1520	1310	640
12	543	346	175	252	101	224	184	147	860	1780	1420	1660
13	527	328	151	233	97	205	178	143	841	1770	1630	2830
14	1280	392	133	478	91	192	154	142	853	1570	1850	2510
15	1150	319	127	843	84	226	136	155	944	1520	1870	2030
16	1350	329	118	572	81	240	121	183	1080	1470	1780	1440
17	1430	377	136	652	75	196	111	207	1190	1470	1640	1650
18	915	484	169	1150	71	161	104	226	1220	1550	1970	1600
19	627	621	176	1530	71	138	100	253	1240	1680	2110	1330
20	468	1060	189	800	74	122	98	303	1200	2560	4130	1100
21	378	1440	219	628	71	107	101	420	1210	3080	3690	1290
22	362	1200	194	689	69	95	104	594	1280	3760	2710	1460
23	350	740	172	613	67	96	109	514	1490	3660	2020	2660
24	307	610	207	441	65	89	110	445	1740	2730	1730	4170
25	404	530	314	369	69	93	144	433	1750	2160	1600	2580
26	377	398	402	312	93	112	187	422	1870	1890	1510	1750
27	312	318	452	276	192	134	204	393	2060	1780	1720	1240
28	262	329	454	215	209	122	323	386	2210	1660	4710	1270
29	227	348	717	179	---	113	327	412	2220	1490	7970	1130
30	226	289	854	162	---	120	274	455	1980	1420	6530	846
31	215	---	807	180	---	116	---	516	---	1530	5580	---
TOTAL	19392	12630	8693	14248	3152	5137	4308	8881	35346	59690	75920	52723
MEAN	626	421	280	460	113	166	144	286	1178	1925	2449	1757
MAX	1530	1440	854	1530	222	254	327	594	2220	3760	7970	4170
MIN	215	150	118	162	65	89	87	142	584	1420	1310	640
AC-FT	38460	25050	17240	28260	6250	10190	8540	17620	70110	118400	150600	104600
CFSM	15.4	10.4	6.92	11.3	2.78	4.09	3.55	7.07	29.1	47.5	60.5	43.4
IN.	17.81	11.60	7.98	13.09	2.90	4.72	3.96	8.16	32.47	54.83	69.73	48.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)#

MEAN	532	235	124	126	118	87.9	244	610	1433	2116	2047	1870
MAX	1014	553	280	460	277	189	393	1158	1728	2518	3164	3583
(WY)	1994	1998	2001	2001	1997	1998	1995	1995	1990	1990	1989	1995
MIN	136	90.5	26.3	26.0	26.0	26.0	111	286	1178	1714	1409	649
(WY)	1997	1991	1991	1991	1991	1991	1999	2001	2001	1999	1998	1992

See Period of Record: partial years used in monthly statistics

15272280 PORTAGE CREEK AT PORTAGE LAKE OUTLET NEAR WHITTIER--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1989 - 2001#	
ANNUAL TOTAL	248821		300120			
ANNUAL MEAN	680		822		786	
HIGHEST ANNUAL MEAN					972	1995
LOWEST ANNUAL MEAN					656	2000
HIGHEST DAILY MEAN	4110	Jul 22	7970	Aug 29	10700	Sep 20 1995
LOWEST DAILY MEAN	a55	Jan 18	65	Feb 24	b26	Dec 5 1990
ANNUAL SEVEN-DAY MINIMUM	56	Jan 16	69	Feb 19	26	Dec 5 1990
MAXIMUM PEAK FLOW			9200	Aug 29	13000	Sep 20 1995
MAXIMUM PEAK STAGE			9.23	Aug 29	10.66	Sep 20 1995
INSTANTANEOUS LOW FLOW			59	Feb 25	26	Dec 5 1990
ANNUAL RUNOFF (AC-FT)	493500		595300		569500	
ANNUAL RUNOFF (CFSM)	16.8		20.3		19.4	
ANNUAL RUNOFF (INCHES)	228.55		275.67		263.73	
10 PERCENT EXCEEDS	1690		1860		2040	
50 PERCENT EXCEEDS	345		386		329	
90 PERCENT EXCEEDS	91		110		55	

\# See Period of Record: partial years used in monthly statistics
a Jan. 18 to Jan. 22
b From Dec. 5, 1990 to Mar. 31, 1991

15272380 TWENTYMILE RIVER BELOW GLACIER RIVER NEAR PORTAGE

LOCATION.--Lat 60°53′35″, long 148°55′38″, in SW¼ SW¼ SE¼ sec. 4, T. 9 N., R. 3 E. (Seward D-6 quad), hydrologic unit 19020401, on right bank, 0.1 miles below Glacier River, 4.0 miles upstream from the Seward Highway, and 6.0 miles northeast of Portage.

DRAINAGE AREA.--141 mi^2.

PERIOD OF RECORD.--April to September 2001.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above sea level, from topographic map.

REMARKS.--Record is good except for June 16 to July 25, August 2 to 4, 19, 20, September 13 to 15, and estimated daily discharges, which are poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT PERIOD.-- Maximum discharge, 9,990 ft^3/s, August 29, gage height 25.47 ft.; 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	---	---	---	---	---	---	e195	547	1760	3490	e2900	4400
2	---	---	---	---	---	---	e195	520	1940	3470	3010	3240
3	---	---	---	---	---	---	258	533	2090	3360	3170	2820
4	---	---	---	---	---	---	271	468	2020	3170	3170	3150
5	---	---	---	---	---	---	226	416	2020	3300	3060	4330
6	---	---	---	---	---	---	197	483	2070	3290	3000	3250
7	---	---	---	---	---	---	183	490	1920	3010	2890	2730
8	---	---	---	---	---	---	180	439	1750	2810	2710	2330
9	---	---	---	---	---	---	178	438	1870	2650	2600	2020
10	---	---	---	---	---	---	191	433	2070	2660	2440	1810
11	---	---	---	---	---	---	344	421	2220	2630	2370	1650
12	---	---	---	---	---	---	438	412	2220	2800	2590	2160
13	‡758	---	---	---	---	---	345	432	2090	2790	2900	3090
14	---	---	---	---	---	---	294	505	2160	2720	3190	2840
15	---	---	---	---	---	---	263	603	2380	2760	3250	2530
16	---	‡552	---	---	---	---	264	681	2700	2650	3140	2200
17	---	---	---	---	---	---	254	730	3040	2770	2970	2440
18	---	---	---	---	---	---	243	788	3150	2880	3070	2580
19	---	---	---	---	---	---	243	866	2960	3030	3100	2380
20	---	---	---	---	---	---	247	1010	2850	4350	5770	2110
21	---	---	---	---	---	---	267	1090	3010	4700	5360	2130
22	---	---	---	---	---	---	282	1170	3230	4990	4070	2070
23	---	---	---	---	---	---	300	1130	3700	4770	3150	2640
24	---	---	---	---	---	---	295	1130	3990	3980	2910	4030
25	---	---	---	---	---	---	394	1100	3800	3360	2760	3070
26	---	---	---	---	---	---	437	1060	3960	e3200	2580	2510
27	---	---	---	---	---	---	464	1060	4390	e3100	2520	2080
28	---	---	---	---	---	---	733	1190	4530	e2900	5130	1940
29	---	---	---	---	---	---	626	1390	4320	e2800	9230	1860
30	---	---	---	---	---	---	559	1460	3840	e2700	8090	1600
31	---	---	---	---	---	---	---	1630	---	e2800	6610	---
TOTAL	---	---	---	---	---	---	9366	24625	84050	99890	113710	77990
MEAN	---	---	---	---	---	---	312	794	2802	3222	3668	2600
MAX	---	---	---	---	---	---	733	1630	4530	4990	9230	4400
MIN	---	---	---	---	---	---	178	412	1750	2630	2370	1600
AC-FT	---	---	---	---	---	---	18580	48840	166700	198100	225500	154700
CFSM	---	---	---	---	---	---	2.21	5.63	19.9	22.9	26.0	18.4
IN.	---	---	---	---	---	---	2.47	6.50	22.17	26.35	30.00	20.58

‡ Result of discharge measurement
e Estimated

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°10′02″, long 149°46′14″, in NW¼ sec. 2, T. 12 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 0.2 mi downstream from bridge on dog-mushing trail leading to Campbell Airstrip, 2.0 mi upstream from North Fork Campbell Creek, and 5.5 mi southeast of Anchorage.

DRAINAGE AREA.--29.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1947 to September 1971, October 1998 to September 2001, (discontinued)

REVISED RECORD.-- WRD AK-00-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 260 ft, from topographic map. Prior to August 20, 1952, water-stage recorder at site 0.2 mi upstream at different datum. August 20, 1952 to July 15, 1958, water-stage recorder at site 70 ft downstream from previous site at different datum; July 16, 1958 to September 30, 1971, water-stage recorder at same site but different datum. October 1, 1971 to September 30, 1972, crest-stage gage at same site but different datum.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
June 15	1400	162	6.20	July 06	unknown	*243	*a6.52
June 25	0130	157	6.18	July 20	unknown	unknown	unknown

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	60	e28	e21	e13	e10	e11	e8.0	12	69	e100	e48	38
2	57	e28	e20	e13	e10	e11	7.6	9.8	77	e90	e46	37
3	54	e28	e20	e12	e10	e11	5.1	10	107	e85	55	54
4	51	e27	e20	e12	e10	e11	5.1	10	120	e90	64	62
5	53	e27	e21	e11	e9.5	e11	6.8	9.0	111	e120	56	96
6	53	e27	e21	e11	e9.0	e12	8.1	8.5	117	e160	50	78
7	48	e27	e21	e12	e9.0	12	6.4	8.7	124	109	47	67
8	45	e27	e21	e12	e9.0	12	6.8	9.5	96	124	46	61
9	41	e27	e20	e11	e8.5	11	6.6	10	96	110	45	52
10	40	e27	e20	e11	e8.5	12	6.3	10	94	96	43	48
11	40	39	e20	e11	e8.5	9.0	6.6	12	96	106	41	45
12	39	29	e19	e12	e8.5	8.2	6.2	13	100	95	40	44
13	38	30	e19	e12	e8.5	9.8	6.2	16	100	87	39	44
14	39	27	e19	e12	e8.5	9.7	6.3	21	95	e80	39	43
15	37	e26	e19	e12	e8.5	9.7	6.6	26	135	78	42	40
16	36	e26	e18	e12	e8.5	9.1	6.5	29	121	e70	43	39
17	35	e26	e17	e12	e9.0	9.6	6.4	31	115	e65	42	39
18	34	25	e17	e12	e9.0	e9.5	6.6	31	106	e65	45	40
19	34	27	e17	e12	e9.0	e9.5	7.0	31	112	e75	42	41
20	33	27	e18	e12	e9.0	e9.5	7.8	37	116	e150	46	39
21	e33	26	e17	e11	e9.0	e9.0	8.3	35	118	e130	41	38
22	e33	24	e17	e11	e9.5	e9.0	8.2	32	121	e110	39	37
23	33	25	e16	e11	e9.5	e9.0	8.8	33	126	e95	37	36
24	33	e24	e15	e11	e10	e9.0	8.5	33	133	e75	38	36
25	33	e24	e15	e11	e11	e9.0	9.6	34	138	e65	37	35
26	33	e24	e14	e11	e12	e9.5	10	34	e140	60	35	33
27	e31	e24	e14	e11	e12	e10	11	36	e140	54	33	33
28	e31	e24	e13	e11	e11	e9.5	11	41	e130	51	40	32
29	e29	e23	e13	e10	---	e9.0	10	51	e120	48	58	32
30	e29	e22	e13	e10	---	8.3	12	60	e110	e46	45	31
31	e31	---	e14	e10	---	8.4	---	65	---	e50	41	---
TOTAL	1216	795	549	355	264.5	307.3	230.4	798.5	3383	2739	1363	1350
MEAN	39.2	26.5	17.7	11.5	9.45	9.91	7.68	25.8	113	88.4	44.0	45.0
MAX	60	39	21	13	12	12	12	65	140	160	64	96
MIN	29	22	13	10	8.5	8.2	5.1	8.5	69	46	33	31
AC-FT	2410	1580	1090	704	525	610	457	1580	6710	5430	2700	2680
CFSM	1.34	.91	.61	.39	.32	.34	.26	.88	3.87	3.03	1.51	1.54
IN.	1.55	1.01	.70	.45	.34	.39	.29	1.02	4.31	3.49	1.74	1.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2001, BY WATER YEAR (WY)#

MEAN	44.4	26.5	17.1	12.7	9.12	7.46	8.42	34.3	96.6	77.1	61.9	60.9
MAX	83.7	56.2	31.1	33.3	17.1	12.0	20.3	62.8	166	151	94.3	122
(WY)	1962	1953	1961	1961	1961	1961	1964	1960	1962	1963	1949	1960
MIN	19.3	11.5	10.6	5.99	4.02	3.44	3.70	10.5	49.2	37.8	31.8	21.1
(WY)	1951	1951	1969	1965	1969	1970	1971	1971	1954	1954	1969	1969

\# See Period of Record; partial years used in monthly statistics
a From crest-stage gage
e Estimated

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1947 - 2001#	
ANNUAL TOTAL	14980.6		13350.7			
ANNUAL MEAN	40.9		36.6		38.2	
HIGHEST ANNUAL MEAN					50.9	1949
LOWEST ANNUAL MEAN					20.5	1969
HIGHEST DAILY MEAN	182	Jul 18	160	Jul 6	572	Jun 21 1949
LOWEST DAILY MEAN	6.3	Apr 11	b5.1	Apr 3	c2.0	Mar 28 1964
ANNUAL SEVEN-DAY MINIMUM	6.7	Apr 7	6.4	Apr 10	2.6	Mar 24 1964
MAXIMUM PEAK FLOW			243	Jul 6	891	Jun 21 1949
MAXIMUM PEAK STAGE			a6.52	Jul 6	df6.40	Nov 10 1965
INSTANTANEOUS LOW FLOW			4.0	Apr 3	.00	Oct 12 1958
ANNUAL RUNOFF (AC-FT)	29710		26480		27650	
ANNUAL RUNOFF (CFSM)	1.40		1.25		1.31	
ANNUAL RUNOFF (INCHES)	19.10		17.03		17.78	
10 PERCENT EXCEEDS	111		96		88	
50 PERCENT EXCEEDS	27		27		25	
90 PERCENT EXCEEDS	8.4		8.8		7.0	

\# See Period of Record; partial years used in monthly statistics
a From crest-stage gage
b Apr. 3-4
c Mar. 28 to Mar. 30, 1964
d Backwater from ice
f Site and datum then in use

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-49, 1951, 1958-61, 1965-70, 1998 to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1998 to September 2001.

INSTRUMENTATION.--Electronic water temperature recorder since October 1998, set for 15-minute recording interval.

REMARKS.--No record from January 18-22, May 3-15, and June 27 to July 5 due to missing record and damaged equipment. Partial day of record on January 23, May 2, and 16, June 26, and July 6. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross sections on December 7, and August 2. No variation was found within the cross section. No variation was found between the mean stream temperature and temperature at the sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 14.5°C July 4, 1999; minimum, 0.0°C on many days during the winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 13.5°C August 13, may have been higher during period of missing record; minimum, 0.0°C on many days during winter.

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

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
DEC								
07...	1245	4.00	89	7.5	0	765	14.6	99.5
07...	1246	7.00	90	7.5	0	765	14.6	99.5
07...	1247	10.0	90	7.5	0	765	14.6	99.5
07...	1248	13.0	90	7.5	0	765	14.6	99.5
07...	1249	16.0	90	7.5	0	765	14.6	99.5
AUG								
02...	1120	7.00	78	7.7	9.5	756	11.6	102
02...	1121	12.0	78	7.7	9.5	756	11.6	102
02...	1122	17.0	78	7.7	9.5	756	11.6	102
02...	1123	22.0	78	7.7	9.5	756	11.6	102
02...	1124	27.0	78	7.7	9.5	756	11.6	102

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT (CODE) (50280)	QUALITY ASSURANCE DATA INDICATOR CODE (99111)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)
OCT													
05...	1520	9	9	29.5	--	53	10	3045	1001	--	79	7.8	4.5
NOV													
03...	1240	9	9	--	--	E28	10	3045	1001	--	93	7.8	-1.0
DEC													
07...	1300	9	7	14.8	--	21	10	3045	1001	30	90	7.5	--
JAN													
18...	1410	9	9	28.0	5.28	12	10	3045	1001	--	98	8.2	--
FEB													
09...	1340	9	9	10.0	--	8.6	10	3045	1001	--	96	7.5	-6.5
MAR													
02...	1050	9	9	30.0	--	11	10	3045	1001	10	108	7.7	-1.0
MAY													
02...	1320	9	9	23.5	5.01	9.9	10	3045	1001	--	110	8.2	.00
31...	1640	9	9	31.0	5.65	67	10	3045	1099	--	69	7.7	19.0
JUN													
04...	1410	9	9	30.0	5.94	115	10	3045	1099	--	56	7.6	19.0
14...	1410	9	9	30.0	5.84	93	10	3045	1001	--	62	7.6	18.0
JUL													
19...	1320	9	9	29.5	5.76	70	10	3045	1001	--	69	7.6	16.0
AUG													
02...	1140	9	9	25.3	5.68	53	10	3045	1001	--	78	7.7	18.0
SEP													
09...	1320	D	9	--	--	--	--	--	1099	--	76	7.9	9.0
11...	1200	9	9	24.9	5.64	48	10	3045	1001	--	80	7.7	15.5

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

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

DATE	TEMP-ERATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MMOF HG) (00025)	OXYGEN DIS-OLVED (MG/L) (00300)	OXYGEN, DIS-OLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT													
05...	3.0	746	12.9	98	40	--	E1	39	12.6	1.72	1.0	25	.24
NOV													
03...	.00	752	14.5	101	E12	E11	<1	43	14.0	2.07	1.4	29	.19
DEC													
07...	.00	765	14.6	99	E10	E7	<1	41	13.1	1.99	1.2	29	.20
JAN													
18...	.5	738	13.3	95	E6	E7	<1	43	13.6	2.15	1.3	31	.22
FEB													
09...	.00	763	15.0	102	E2	E1	<1	36	11.4	1.81	1.1	34	E.18
MAR													
02...	.5	--	--	--	E4	<1	<1	45	14.2	2.40	1.4	34	.21
MAY													
02...	2.0	742	12.9	96	--	--	--	50	16.0	2.56	1.5	39	.24
31...	7.7	753	11.3	96	--	--	--	31	9.93	1.43	1.0	22	.23
JUN													
04...	6.5	753	12.3	101	--	--	--	25	8.15	1.09	.3	18	.23
14...	7.5	761	11.7	98	--	--	--	29	9.31	1.28	.9	20	.17
JUL													
19...	11.0	758	10.8	98	--	--	--	31	10.3	1.34	.9	22	.09
AUG													
02...	9.5	756	11.6	102	--	--	--	34	11.1	1.49	.9	24	.15
SEP													
09...	6.0	766	12.4	99	--	--	--	--	--	--	--	--	--
11...	5.0	765	11.7	91	--	--	--	39	12.9	1.69	1.1	25	.13

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SUL-FATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLOU-RIDE DIS-SOLVED (MG/L AS F) (00950)	SIL-ICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOL-IDS, RISI-DUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOL-IDS, SUM OF CON-STITU-ENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMO-NIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMO-NIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMO-NIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT													
05...	28	23	13.6	.5	<.2	6.1	57	50	<.001	.183	.005	E.06	<.10
NOV													
03...	34	28	13.5	.5	<.2	7.6	55	57	<.001	.271	<.002	.10	<.10
DEC													
07...	32	27	12.4	.5	<.2	7.2	57	54	<.001	.302	<.002	E.07	<.10
JAN													
18...	36	30	12.4	.5	<.2	7.5	63	57	<.001	.340	.002	<.08	<.10
FEB													
09...	41	34	12.6	.5	<.2	6.3	62	--	<.001	.366	.003	E.05	<.10
MAR													
02...	40	33	12.8	.5	<.2	7.6	58	60	<.001	.368	.009	<.08	<.10
MAY													
02...	45	38	10.9	.6	<.2	7.8	75	66	.001	.867	.005	<.08	<.10
31...	25	21	7.9	.4	<.2	6.0	69	41	.001	.337	.002	.14	E.07
JUN													
04...	21	17	6.5	.4	<.2	5.0	47	33	<.001	.224	.005	.09	<.10
14...	22	18	8.6	.4	<.2	5.5	40	37	<.001	.144	.003	.13	E.06
JUL													
19...	25	21	10.5	.3	<.2	5.0	46	41	<.001	.074	.004	E.07	<.10
AUG													
02...	28	23	11.5	.2	<.2	5.3	50	45	.001	.072	<.002	E.04	<.10
SEP													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	29	24	12.7	.4	<.2	6.1	51	50	.001	.113	.004	E.04	<.10

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

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

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CAR-BON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CAR-BON, INOR-GANIC, PAR-TIC. TOTAL (MG/L AS C) (00688)	CAR-BON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CAR-BON, INORG + ORGANIC PAR-TIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN, PARTIC-ULATE WAT FLT SUSP (MG/L AS N) (49570)	CHLOR-A PERIPH-YTON CHROMO-GRAPHIC FLUO-ROM (MG/M2) (70957)	PERIPH-YTON BIO-MASS ASH WEIGHT G/SQ M (00572)	PERIPH-YTON BIO-MASS TOTAL DRY WEIGHT G/SQ M (00573)
OCT													
05...	E.002	<.006	.002	<10	<2.2	.79	<.1	.1	.1	<.022	--	--	--
NOV													
03...	<.004	<.006	<.007	M	E2.5	.61	<.1	<.1	<.1	<.022	--	--	--
DEC													
07...	E.003	<.006	<.007	<10	<3.2	.63	<.1	<.1	<.1	.057	--	--	--
JAN													
18...	E.003	E.004	<.007	M	<3.2	.50	<.1	.2	.2	<.022	--	--	--
FEB													
09...	E.003	<.006	E.004	<10	<3.2	.54	<.1	<.1	<.1	<.022	--	--	--
MAR													
02...	E.002	E.003	<.007	<10	<3.2	.46	<.1	.1	.1	<.022	--	--	--
MAY													
02...	.004	<.006	<.007	<10	<3.2	1.2	--	--	E.1	<.022	--	--	--
31...	.016	E.004	<.007	<10	<3.0	1.7	--	--	1.5	.110	--	--	--
JUN													
04...	.022	<.006	<.007	<10	<3.0	1.4	--	--	5.9	.404	--	--	--
14...	.006	<.006	<.007	<10	<3.0	.97	--	--	.4	<.022	--	--	--
JUL													
19...	.006	<.006	<.007	<10	<3.0	.76	--	--	.4	.049	--	--	--
AUG													
02...	E.002	<.006	<.007	<10	<3.0	.61	--	--	.6	.079	--	--	--
SEP													
09...	--	--	--	--	--	--	--	--	--	--	3.0	38.2	40.2
11...	E.002	<.006	<.007	M	<3.0	.78	--	--	.2	<.022	--	--	--

DATE	PHEOPHY-TIN A, PERIPHY-TON (MG/M2) (62359)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT				
05...	--	2	.29	--
NOV				
03...	--	1	--	--
DEC				
07...	--	--	--	--
JAN				
18...	--	2	.06	47
FEB				
09...	--	1	.02	--
MAR				
02...	--	1	.03	--
MAY				
02...	--	1	.03	--
31...	--	8	1.5	43
JUN				
04...	--	14	4.3	20
14...	--	5	1.3	--
JUL				
19...	--	3	.56	--
AUG				
02...	--	3	.43	--
SEP				
09...	1.6	--	--	--
11...	--	.0	.00	--

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--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
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	3.0	1.5	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	4.0	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	4.5	3.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	4.5	3.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	4.0	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	2.5	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	1.5	.0	.5	2.5	.0	1.5	.0	.0	.0	.0	.0	.0
11	2.0	.5	1.5	2.0	.5	1.0	.0	.0	.0	.0	.0	.0
12	2.5	1.5	2.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0
13	3.5	2.0	2.5	1.5	.0	.5	.0	.0	.0	.0	.0	.0
14	3.5	2.5	3.0	1.5	.0	1.0	.0	.0	.0	.0	.0	.0
15	3.0	1.5	2.5	.0	.0	.0	.0	.0	.0	1.0	.0	.5
16	3.5	2.0	2.5	.0	.0	.0	.0	.0	.0	.5	.0	.5
17	3.0	2.0	2.5	1.5	.0	.5	.0	.0	.0	1.0	.0	.5
18	2.5	1.5	2.0	1.5	.5	1.0	.0	.0	.0	---	---	---
19	2.5	1.0	2.0	1.5	1.0	1.5	.0	.0	.0	---	---	---
20	2.0	.0	.5	1.5	1.0	1.5	.0	.0	.0	---	---	---
21	.0	.0	.0	2.0	1.0	1.5	.0	.0	.0	---	---	---
22	1.5	.0	1.0	1.5	.0	1.0	.0	.0	.0	---	---	---
23	1.0	.0	.5	.5	.0	.5	.0	.0	.0	---	.0	---
24	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
25	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
26	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.5	.5	.5
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	4.5	.0	1.5	2.5	.0	.4	.0	.0	.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	1.5	2.5
2	.0	.0	.0	1.0	.0	.0	1.5	.0	.5	---	.5	---
3	.0	.0	.0	.0	.0	.0	2.5	.5	1.0	---	---	---
4	.0	.0	.0	.0	.0	.0	2.0	.5	1.0	---	---	---
5	.0	.0	.0	.0	.0	.0	1.5	.0	.5	---	---	---
6	.0	.0	.0	1.0	.0	.5	1.0	.0	.5	---	---	---
7	.0	.0	.0	1.0	.5	.5	2.0	.5	1.0	---	---	---
8	.0	.0	.0	1.0	.0	.5	3.0	.5	1.5	---	---	---
9	.0	.0	.0	1.0	.5	1.0	2.5	.0	1.0	---	---	---
10	.0	.0	.0	1.5	.5	1.0	2.0	1.0	1.5	---	---	---
11	.0	.0	.0	1.5	.5	1.0	2.0	1.0	1.5	---	---	---
12	.0	.0	.0	1.5	.5	1.0	2.0	.5	1.5	---	---	---
13	.0	.0	.0	1.0	.0	.5	3.0	.5	1.5	---	---	---
14	.0	.0	.0	1.0	.5	.5	3.0	.0	1.5	---	---	---
15	.0	.0	.0	1.0	.0	1.0	3.0	1.0	1.5	---	---	---
16	.0	.0	.0	1.5	.5	1.0	3.0	.5	1.5	5.0	---	---
17	.0	.0	.0	1.0	.0	.0	3.5	.5	1.5	7.0	1.0	3.5
18	.0	.0	.0	.0	.0	.0	4.0	.5	2.0	5.5	2.5	4.0
19	.0	.0	.0	.5	.0	.0	4.0	.0	2.0	8.0	2.5	5.0
20	.0	.0	.0	.0	.0	.0	5.0	.5	2.0	6.5	2.0	4.0
21	.0	.0	.0	.0	.0	.0	4.0	.5	2.0	5.0	2.0	3.5
22	.0	.0	.0	.0	.0	.0	5.0	1.5	3.0	6.0	2.0	4.0
23	.0	.0	.0	.0	.0	.0	3.5	.5	2.0	5.5	3.0	4.0
24	.0	.0	.0	.0	.0	.0	4.5	.5	2.5	6.0	2.5	4.0
25	.0	.0	.0	.0	.0	.0	5.0	1.0	2.5	6.5	2.5	4.5
26	.0	.0	.0	.0	.0	.0	5.0	1.5	3.0	5.5	2.5	4.0
27	.0	.0	.0	.0	.0	.0	5.0	1.5	3.0	8.5	1.5	5.0
28	.0	.0	.0	.0	.0	.0	4.5	2.0	3.0	9.0	2.5	5.5
29	---	---	---	.5	.0	.0	6.5	.5	3.5	7.0	3.5	5.0
30	---	---	---	1.0	.5	.5	6.5	1.0	3.5	6.5	3.0	4.5
31	---	---	---	1.5	.0	.5	---	---	---	7.5	2.5	4.5
MONTH	.0	.0	.0	1.5	.0	.3	6.5	.0	1.8	---	---	---

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--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
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	3.0	5.0	---	---	---	11.5	9.0	10.0	8.5	6.5	7.5
2	8.5	3.0	5.5	---	---	---	12.5	9.0	10.5	9.0	7.5	8.0
3	8.0	4.0	5.5	---	---	---	11.5	9.5	10.0	10.0	8.0	9.0
4	6.5	3.0	5.0	---	---	---	11.0	9.0	10.0	9.5	7.0	8.0
5	7.0	4.0	5.0	---	---	---	11.0	8.0	9.5	7.5	6.5	7.0
6	5.5	4.5	5.0	9.5	---	---	12.5	8.0	10.0	8.0	5.5	6.5
7	7.0	3.5	5.0	10.5	7.5	9.0	12.0	9.5	11.0	7.5	6.0	7.0
8	7.5	3.5	5.5	9.5	8.0	8.5	11.5	10.0	10.5	8.0	5.0	6.5
9	10.0	4.0	6.5	11.0	7.5	9.0	11.5	9.5	10.5	8.0	4.5	6.0
10	9.5	4.5	7.0	10.0	7.5	8.5	11.5	9.5	10.5	7.5	4.5	6.0
11	7.5	5.5	6.0	9.0	7.5	8.0	12.0	9.5	10.5	7.5	4.5	5.5
12	7.0	5.0	6.0	8.5	7.0	8.0	12.5	9.5	11.0	7.0	5.5	6.5
13	7.0	5.0	6.0	9.0	7.0	8.0	13.5	9.5	11.5	7.0	5.5	6.5
14	10.0	5.0	7.0	10.0	7.5	8.5	13.0	11.0	11.5	7.0	5.5	6.5
15	10.5	5.0	8.0	9.5	8.0	8.5	12.0	10.5	11.0	7.5	5.5	6.5
16	11.0	5.5	8.0	9.5	8.0	8.5	11.5	10.5	11.0	7.5	5.0	6.5
17	11.0	6.0	8.5	11.0	8.0	9.5	11.5	10.0	11.0	8.5	6.5	7.5
18	9.5	6.5	8.0	12.0	8.0	10.0	11.5	9.5	10.5	8.0	7.5	7.5
19	10.0	6.0	8.0	11.5	10.0	11.0	11.0	9.5	10.0	8.0	7.0	7.5
20	11.0	7.0	8.5	11.5	10.0	10.5	11.0	8.5	9.5	8.0	6.5	7.0
21	10.0	7.5	8.5	10.5	9.0	10.0	12.0	8.5	10.0	7.0	4.5	5.5
22	11.5	6.5	9.0	10.5	9.0	10.0	11.5	8.5	10.0	6.5	4.0	5.0
23	12.5	7.5	10.0	10.0	9.0	9.5	11.0	8.5	9.5	6.0	5.0	5.5
24	11.0	8.5	9.0	10.0	8.5	9.0	10.0	9.0	9.5	6.0	4.5	5.5
25	11.5	7.0	9.0	10.0	8.5	9.5	10.5	8.0	9.5	6.0	4.0	5.0
26	---	8.5	---	11.5	9.0	10.0	10.5	8.0	9.5	5.5	4.0	5.0
27	---	---	---	12.0	9.5	10.5	10.0	7.5	9.0	5.0	2.5	4.0
28	---	---	---	11.5	8.5	10.5	10.0	8.5	9.0	5.5	4.0	5.0
29	---	---	---	12.0	9.0	10.5	8.5	7.5	8.0	5.0	3.5	4.5
30	---	---	---	11.0	9.5	10.0	9.0	7.5	8.0	5.0	2.5	4.0
31	---	---	---	11.0	8.5	9.5	8.5	6.5	7.5	---	---	---
MONTH	---	---	---	---	---	---	13.5	6.5	10.0	10.0	2.5	6.3

SOUTH-CENTRAL ALASKA

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE

LOCATION.--Lat 61°12′19″, long 149°53′43″, on line between sec. 19, R. 3 W., and sec. 24, R. 4 W., T. 13 N. (Anchorage A-8 quad), Hydrologic Unit 19020401, on left bank 50 ft downstream from bridge on Arctic Boulevard in Anchorage and 0.8 mi upstream from mouth.

DRAINAGE AREA.--27.4 mi^2.

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--June 1966 to April 1986, July 1987 to September 1993, and October 1998 to current year.

REVISED RECORDS.--WRD Alaska 1972, WRD AK-00-1: Drainage area. WDR AK-82-1: 1979(M), 1981(M).

GAGE.--Water-stage-recorder. Auxiliary crest-stage gage since April 2000. Datum of gage is 16.02 ft above sea level (from USGS&CG, datum of 1968). Prior to May 25, 1988, at site 100 ft upstream at same datum.

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	28	23	e17	e16	13	12	18	19	21	19	22	19
2	27	22	e16	e16	e13	12	15	21	22	19	22	24
3	27	22	e16	e16	e13	e12	37	28	21	19	31	32
4	27	21	e16	16	e12	e12	49	24	22	32	32	29
5	29	21	e16	e15	e12	e12	28	20	22	70	24	32
6	31	22	e17	e15	e12	12	23	20	25	51	22	23
7	28	22	21	e16	12	14	25	20	22	31	22	22
8	27	21	19	e16	e13	13	39	22	22	36	22	23
9	25	e21	18	e16	e13	16	37	23	22	29	22	21
10	24	e22	18	16	e12	22	30	21	22	27	21	20
11	25	e30	18	e16	12	21	33	20	23	28	21	20
12	24	26	18	e15	13	37	28	20	25	24	20	20
13	23	23	17	15	e12	28	23	20	22	25	20	20
14	24	22	e17	15	e12	18	23	19	21	26	21	21
15	24	21	e16	22	e12	16	23	19	21	24	20	20
16	23	20	e17	17	e12	17	23	24	20	24	21	20
17	24	20	e17	15	e12	18	21	21	21	25	22	21
18	23	21	e17	21	e12	17	21	20	21	23	29	21
19	24	20	17	e25	e12	e16	21	20	20	25	22	22
20	26	20	18	17	e12	e15	21	19	21	35	23	21
21	25	20	20	15	12	e15	21	20	21	27	21	20
22	26	20	e16	14	12	e14	21	19	20	35	21	19
23	28	19	e16	15	e12	e14	21	19	20	25	20	19
24	24	19	e16	14	e11	e15	20	19	20	24	21	19
25	25	18	18	14	e12	e15	20	19	22	25	21	19
26	24	e18	16	13	e12	15	20	18	21	24	20	19
27	22	17	16	14	16	25	20	18	20	23	20	18
28	20	17	16	13	14	29	20	18	19	22	20	18
29	21	22	16	e13	---	22	20	20	20	21	20	18
30	21	19	17	e13	---	16	19	21	19	24	20	17
31	23	---	16	13	---	16	---	20	---	23	20	---
TOTAL	772	629	529	487	347	536	740	631	638	865	683	637
MEAN	24.9	21.0	17.1	15.7	12.4	17.3	24.7	20.4	21.3	27.9	22.0	21.2
MAX	31	30	21	25	16	37	49	28	25	70	32	32
MIN	20	17	16	13	11	12	15	18	19	19	20	17
AC-FT	1530	1250	1050	966	688	1060	1470	1250	1270	1720	1350	1260
CFSM	.91	.77	.62	.57	.45	.63	.90	.74	.78	1.02	.81	.78
IN.	1.05	.86	.72	.66	.47	.73	1.01	.86	.87	1.18	.93	.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)#

MEAN	25.8	18.4	14.7	12.7	11.5	13.5	25.1	23.3	21.8	22.2	25.2	28.2
MAX	52.5	45.5	33.1	26.5	20.1	25.2	58.4	55.9	44.9	34.7	61.4	59.7
(WY)	1990	1990	1990	1990	1990	1990	1990	1992	1990	2000	1989	1989
MIN	10.7	8.27	3.84	3.27	2.99	4.18	10.6	11.0	10.1	10.1	9.59	12.5
(WY)	1971	1993	1993	1971	1971	1971	1970	1970	1970	1976	1976	1970

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1966 - 2001#	
ANNUAL TOTAL	9192		7494			
ANNUAL MEAN	25.1		20.5		20.2	
HIGHEST ANNUAL MEAN					38.4	1990
LOWEST ANNUAL MEAN					11.5	1970
HIGHEST DAILY MEAN	80	Sep 26	70	Jul 5	345	Aug 26 1989
LOWEST DAILY MEAN	a13	Jan 1	11	Feb 24	b1.6	Feb 12 1975
ANNUAL SEVEN-DAY MINIMUM	13	Jan 1	12	Feb 18	1.9	Feb 9 1975
MAXIMUM PEAK FLOW			116	Jul 5	421	Aug 26 1989
MAXIMUM PEAK STAGE			2.97	Jul 5	5.56	Aug 26 1989
ANNUAL RUNOFF (AC-FT)	18230		14860		14660	
ANNUAL RUNOFF (CFSM)	.92		.75		.74	
ANNUAL RUNOFF (INCHES)	12.50		10.19		10.05	
10 PERCENT EXCEEDS	35		27		33	
50 PERCENT EXCEEDS	25		20		18	
90 PERCENT EXCEEDS	16		13		9.5	

\# See Period of Record; partial years used in monthly statistics
a Jan. 1 to 14
b Feb. 12 to Feb. 14, 1975
e Estimated

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-73, 1975-1977, 1980 to 1986, and 1998 to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1981 to March 1986, June 2000 to September 2001.
WATER TEMPERATURE: October 1981 to March 1986, October 1998 to September 2001.

INSTRUMENTATION.--Electronic water-temperature and specific conductance recorder set for 15-minute recording interval.

REMARKS.--
WATER TEMPERATURE: Partial record December 5,6, and January 8. Record represents water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with stream average by cross sections on November 2, March 1, and July 5. No variation was found within the cross sections. No variation was found between mean stream temperature and sensor temperature.
SPECIFIC CONDUCTANCE: Partial record December 5,6, and January 8. Records represent specific conductance at the sensor within 5%. Record for Feruary 18 to March 1, March 7 to Arpil 10, May 1 to May 17, and July 3 to August 1 are during periods of probe fouling. During the periods of probe fouling the record represents specific conductance at the sensor within 10 to 20%.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 19.5°C, July 6, 1985; minimum, 0.0°C, on many days during winter periods.
SPECIFIC CONDUCTANCE: Maximum, 1390 µS/cm, February 8, 1986; minimum, 48 µS/cm August 14, 1983.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 16.5°C, June 26-29; minimum, 0.0°C on many days during winter.
SPECIFIC CONDUCTANCE: Maximum, 1240 µS/cm, January 18; minimum, 63 µS/cm, July 5.

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

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NOV								
02...	1450	2.00	254	8.1	2.5	752	14.3	106
02...	1451	6.00	255	8.1	2.5	752	14.2	106
02...	1452	10.0	255	8.1	2.5	752	14.2	106
02...	1453	14.0	255	8.1	2.5	752	14.1	105
02...	1454	18.0	255	8.1	2.5	752	14.1	105
MAR								
01...	1100	5.00	272	8.0	0	752	14.4	99.9
01...	1101	9.00	272	8.0	0	752	14.5	101
01...	1102	14.0	273	8.0	0	752	14.5	101
01...	1103	19.0	273	8.1	0	752	14.5	101
JUL								
05...	1035	19.0	120	7.1	13.0	756	9.2	88.0
05...	1036	13.0	120	7.1	13.0	756	9.2	88.0
05...	1037	7.00	119	7.1	13.0	756	9.2	88.0
05...	1038	1.00	118	7.1	13.0	756	9.2	88.0

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

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

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT (CODE) (50280)	QUALITY ASSUR-ANCE DATA INDICA-TOR CODE (99111)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPERA TURE AIR (DEG C) (00020)
OCT													
05...	1210	9	9	18.2	1.84	26	10	3045	1001	--	245	7.8	6.0
NOV													
02...	1440	9	9	18.0	1.72	22	10	3045	1001	--	255	8.1	-1.0
16...	1300	9	9	15.0	1.67	19	70	8010	1099	--	267	7.8	.00
16...	1700	9	9	15.0	1.68	19	70	8010	1099	--	266	7.8	.00
17...	1130	9	9	15.0	1.68	19	70	8010	1099	--	266	7.7	-1.0
17...	1440	9	9	15.0	1.71	20	70	8010	1099	--	264	7.9	-1.5
DEC													
05...	1340	9	9	18.0	1.61	16	10	3045	1001	10	267	7.5	1.0
JAN													
16...	1240	9	9	19.0	1.62	17	10	3045	1001	--	305	7.8	--
FEB													
08...	1400	9	9	18.0	1.98	14	10	3045	1001	--	275	7.8	-2.5
MAR													
01...	1000	9	9	17.7	1.59	13	10	3045	1001	--	272	8.0	-1.0
APR													
14...	2100	9	9	17.0	1.79	25	10	3045	1001	--	288	7.9	10.5
MAY													
01...	1520	9	9	18.0	1.70	20	10	3045	1001	--	289	8.2	7.5
04...	1930	9	9	18.5	1.76	23	10	3045	1001	--	268	7.9	1.5
JUN													
12...	1150	9	9	18.5	1.79	25	10	3045	1001	--	242	7.8	15.0
JUL													
03...	1330	9	9	18.0	1.69	17	10	3045	1001	--	257	8.0	17.0
05...	1050	9	9	22.0	2.58	83	10	3045	1001	--	119	7.1	18.5
AUG													
01...	1200	9	9	18.7	1.70	24	10	3045	1001	--	259	7.8	17.5
SEP													
06...	1010	D	9	--	1.69	21	8010	8010	1099	--	239	7.9	22.0
10...	1200	9	9	17.8	1.65	18	10	3045	1001	--	257	7.8	12.5

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

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

DATE	TEMP-ERATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MMOF HG) (00025)	OXYGEN DIS-OLVED (MG/L) (00300)	OXYGEN, DIS-OLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31649)	ENTERO-COCCI, ME MF, WATER (COL/ 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT													
05...	5.0	754	11.8	93	390	240	360	110	32.7	7.27	6.3	77	1.13
NOV													
02...	2.5	752	14.2	106	1100	E1500	130	110	32.7	7.29	7.1	81	.88
16...	2.5	751	13.4	100	3500	1700	1300	--	--	--	--	--	--
16...	2.5	751	12.9	96	84	80	560	--	--	--	--	--	--
17...	2.1	751	13.0	96	88	78	850	--	--	--	--	--	--
17...	2.5	751	12.9	96	3900	2700	220	--	--	--	--	--	--
DEC													
05...	2.0	747	13.5	100	77	83	E45	120	35.4	7.92	8.4	85	.88
JAN													
16...	.5	766	13.7	95	87	80	110	110	31.6	7.93	14.0	83	2.83
FEB													
08...	.00	767	14.6	99	27	25	180	120	34.6	7.84	8.2	85	1.18
MAR													
01...	.00	752	14.5	101	120	86	48	110	30.6	7.76	9.3	82	1.29
APR													
14...	5.5	769	12.3	97	--	--	--	100	30.0	7.28	10.7	73	3.40
MAY													
01...	6.5	757	12.3	101	--	--	--	120	34.2	8.06	9.1	78	1.32
04...	5.0	755	12.2	96	--	--	--	100	29.1	7.20	9.9	73	1.86
JUN													
12...	11.5	766	11.1	101	--	--	--	110	30.5	7.23	7.3	71	1.18
JUL													
03...	13.5	768	10.4	99	--	--	--	110	32.8	7.95	7.3	83	.91
05...	13.0	756	9.2	88	--	--	--	48	14.0	3.07	4.3	37	1.31
AUG													
01...	13.0	765	10.7	101	--	--	--	110	31.6	7.63	6.9	83	.92
SEP													
06...	9.5	760	11.3	99	--	--	--	--	--	--	--	--	--
10...	9.0	767	12.3	106	--	--	--	110	32.9	7.59	7.6	74	1.03

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

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

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/S AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RISIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITROGEN NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT													
05...	91	76	22.5	13.0	<.2	11.8	155	143	.007	.686	.037	.28	.17
NOV													
02...	98	80	22.8	14.6	E.1	11.9	160	149	.003	.759	.010	.16	E.07
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
05...	104	85	22.8	13.9	E.1	13.1	167	158	.007	.853	.045	.23	.11
JAN													
16...	98	82	22.0	29.9	E.1	12.0	179	172	.011	.832	.062	<.08	.18
FEB													
08...	104	85	23.0	17.2	E.1	12.3	161	159	.003	.872	.030	.19	E.08
MAR													
01...	99	82	21.7	19.4	E.1	11.1	160	153	.004	.776	.023	.11	E.09
APR													
14...	88	72	19.9	25.9	<.2	8.8	182	152	.010	.550	.094	.68	.36
MAY													
01...	91	76	23.4	21.5	E.1	9.2	167	154	.004	.495	.009	.32	.17
04...	88	72	19.8	23.9	<.2	8.0	166	146	.009	.497	.030	.40	.20
JUN													
12...	85	71	19.3	14.5	E.1	10.6	148	135	.006	.455	.009	.34	.21
JUL													
03...	98	82	17.8	13.7	E.1	11.7	168	142	.005	.430	.010	.27	.14
05...	43	36	8.7	7.0	<.2	5.4	83	66	.007	.163	.003	.83	.23
AUG													
01...	100	82	18.7	14.2	<.2	10.6	159	142	.005	.477	<.002	.17	.13
SEP													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	91	76	19.9	14.7	E.1	10.9	143	142	.007	.608	.004	.20	.13

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

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

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CAR-BON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CAR-BON, INOR-GANIC, PAR-TIC. TOTAL (MG/L AS C) (00688)	CAR-BON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CAR-BON, INORG + ORGANIC PAR-TIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN, PARTIC-ULATE WAT FLT SUSP (MG/L AS N) (49570)	CHLOR-A PERIPH-YTON CHROMO-GRAPHIC FLUO-ROM (MG/M2) (70957)	PERIPH-YTON BIO-MASS ASH WEIGHT G/SQ M (00572)	PERIPH-YTON BIO-MASS TOTAL DRY WEIGHT G/SQ M (00573)
OCT													
05...	.026	E.003	.002	90	81.0	3.6	<.1	.7	.7	.068	--	--	--
NOV													
02...	.016	<.006	E.004	120	80.3	1.9	<.1	.9	.9	.067	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
05...	.019	.007	<.007	100	103	1.6	<.1	1.1	1.1	.085	--	--	--
JAN													
16...	.025	E.005	<.007	100	100	1.7	<.1	.5	.5	.034	--	--	--
FEB													
08...	.031	E.003	<.007	80	70.7	1.5	<.1	1.0	1.0	.077	--	--	--
MAR													
01...	.017	<.006	<.007	80	87.4	1.6	<.1	1.2	1.2	.061	--	--	--
APR													
14...	.106	.027	.013	250	215	4.0	--	--	1.5	.203	--	--	--
MAY													
01...	<.060	<.060	<.007	230	111	3.1	--	--	.7	.077	--	--	--
04...	.054	.006	<.007	210	134	3.4	--	--	E2.4	.147	--	--	--
JUN													
12...	.031	.007	<.007	130	62.1	4.4	--	--	1.3	.125	--	--	--
JUL													
03...	.025	.010	E.004	100	44.0	2.4	--	--	E1.2	.080	--	--	--
05...	.131	.015	<.007	70	52.5	4.3	--	--	E5.1	.338	--	--	--
AUG													
01...	.014	E.005	<.007	100	40.2	2.1	--	--	.6	.061	--	--	--
SEP													
06...	--	--	--	--	--	--	--	--	--	--	35.1	53.5	62.1
10...	.021	E.004	<.007	110	59.0	2.4	--	--	.6	.053	--	--	--

DATE	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT				
05...	--	7	.49	94
NOV				
02...	--	9	.53	92
16...	--	--	--	--
16...	--	--	--	--
17...	--	--	--	--
17...	--	--	--	--
DEC				
05...	--	10	.43	--
JAN				
16...	--	10	.46	93
FEB				
08...	--	12	.44	84
MAR				
01...	--	10	.36	89
APR				
14...	--	12	.81	89
MAY				
01...	--	7	.37	96
04...	--	22	1.4	96
JUN				
12...	--	11	.74	96
JUL				
03...	--	.0	.00	--
05...	--	.0	.00	--
AUG				
01...	--	2	.13	--
SEP				
06...	10	--	--	--
10...	--	4	.19	--

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--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
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.0	4.0	5.0	3.0	1.5	2.0	1.0	.0	.0	1.5	.0	.5
2	5.5	4.0	5.0	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0
3	6.0	5.0	5.5	2.0	1.0	1.5	.0	.0	.0	1.0	.0	.5
4	6.0	5.0	5.5	2.0	1.0	1.5	1.0	.0	.5	1.0	.0	.5
5	6.0	5.5	5.5	2.5	2.0	2.0	---	1.0	---	.0	.0	.0
6	6.5	5.0	5.5	2.0	1.5	2.0	2.0	---	---	.0	.0	.0
7	6.5	5.0	5.5	2.0	1.0	1.5	2.5	2.0	2.5	2.0	.0	1.0
8	6.0	4.5	5.5	2.0	.5	1.5	2.5	2.0	2.0	---	1.0	---
9	5.5	4.0	4.5	3.0	2.0	2.5	2.0	1.0	1.5	1.5	1.0	1.5
10	4.5	3.5	4.0	3.5	2.5	3.0	1.5	.5	1.0	1.0	.0	.5
11	5.0	3.5	4.5	3.5	1.5	2.0	2.0	1.0	2.0	.0	.0	.0
12	5.0	4.0	4.5	3.0	2.0	2.5	2.0	1.0	1.5	1.5	.0	1.0
13	5.5	4.5	5.0	3.0	2.5	2.5	1.0	.0	.5	1.5	1.0	1.5
14	5.5	4.5	5.0	3.0	2.0	3.0	.0	.0	.0	2.0	1.5	2.0
15	5.5	4.0	5.0	2.0	1.0	1.5	.0	.0	.0	2.5	1.5	2.0
16	5.5	4.0	5.0	2.5	2.0	2.0	.0	.0	.0	1.5	.5	1.0
17	5.5	4.5	5.0	3.0	1.5	2.5	.0	.0	.0	1.5	1.0	1.5
18	5.0	4.0	4.5	3.0	2.0	2.5	1.0	.0	.0	2.5	1.0	2.0
19	5.0	4.0	4.5	3.0	3.0	3.0	1.5	1.0	1.0	1.5	1.0	1.5
20	4.0	2.5	3.5	3.0	2.5	3.0	2.0	.0	1.0	2.0	1.5	2.0
21	4.0	2.0	3.0	3.0	2.0	2.5	2.0	.0	1.0	2.0	1.0	1.5
22	4.5	3.5	4.0	2.5	2.0	2.5	.0	.0	.0	2.5	1.5	2.0
23	4.0	3.0	3.5	2.0	1.5	2.0	.0	.0	.0	2.5	1.5	2.0
24	4.5	3.0	3.5	2.0	1.5	2.0	.5	.0	.0	1.5	1.5	1.5
25	4.5	4.0	4.0	2.0	.5	1.0	1.0	.5	.5	1.5	1.5	1.5
26	4.0	2.5	3.0	1.0	.0	.5	1.0	.5	.5	2.0	1.5	2.0
27	3.0	1.5	2.0	1.5	1.0	1.5	1.0	.0	.5	2.5	1.0	2.0
28	3.0	1.0	2.0	2.5	1.0	1.5	1.0	.0	1.0	1.0	.5	.5
29	2.5	1.5	2.0	2.5	2.0	2.5	2.0	1.0	1.5	.5	.0	.0
30	3.0	2.5	3.0	2.0	1.0	1.5	2.0	1.5	1.5	.5	.0	.5
31	4.0	3.0	3.5	---	---	---	1.5	1.0	1.5	1.5	.5	1.0
MONTH	6.5	1.0	4.2	3.5	.0	2.0	---	---	---	---	.0	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	.0	.5	2.0	.0	1.0	3.5	.0	1.5	6.5	4.5	5.5
2	.5	.0	.0	2.0	.0	1.0	4.5	1.0	2.5	5.0	3.5	4.5
3	.5	.0	.0	.0	.0	.0	3.0	.5	2.5	4.5	2.5	3.5
4	.0	.0	.0	.0	.0	.0	3.5	.5	2.0	5.0	3.0	4.0
5	.0	.0	.0	2.0	.0	1.0	4.5	1.0	2.0	6.0	3.0	4.5
6	1.0	.0	.5	2.0	.5	1.5	3.5	1.0	2.0	6.0	4.0	5.0
7	1.5	.5	1.0	3.0	1.5	2.0	5.0	2.0	3.0	8.5	3.5	6.0
8	.5	.0	.0	2.5	1.0	2.0	5.0	1.5	3.0	9.0	5.0	6.5
9	.0	.0	.0	3.0	1.5	2.0	4.5	1.5	2.5	8.5	5.0	6.5
10	.5	.0	.5	3.0	1.5	2.0	4.0	2.5	3.0	8.0	5.5	6.5
11	.5	.5	.5	3.0	1.5	2.5	5.5	2.5	3.5	10.5	5.0	7.0
12	1.0	.0	.5	2.5	1.0	2.0	4.0	2.5	3.0	11.0	5.0	8.0
13	1.0	.0	.0	3.0	1.0	1.5	5.0	2.5	3.5	12.0	5.5	8.5
14	.0	.0	.0	3.0	1.5	2.0	6.0	2.0	4.0	12.5	6.5	9.5
15	.0	.0	.0	3.0	1.5	2.0	5.5	3.0	4.0	11.0	8.0	9.5
16	.5	.0	.0	3.5	1.5	2.5	5.5	2.5	4.0	10.0	8.0	9.0
17	.5	.0	.0	3.5	.5	1.5	6.5	2.5	4.0	11.5	6.5	9.0
18	.0	.0	.0	1.5	.0	.5	6.5	3.0	4.5	11.0	8.0	9.5
19	.0	.0	.0	.0	.0	.0	7.5	2.5	4.5	13.0	7.5	9.5
20	2.0	.0	1.5	.0	.0	.0	7.5	2.5	5.0	12.0	7.5	9.5
21	2.5	1.5	2.0	.0	.0	.0	7.0	3.0	5.0	10.5	8.0	9.0
22	2.0	.0	1.5	.0	.0	.0	8.0	4.0	5.5	11.0	7.5	9.0
23	.0	.0	.0	.0	.0	.0	7.0	3.0	5.0	11.5	8.0	9.5
24	.0	.0	.0	.0	.0	.0	8.0	3.0	5.5	9.5	7.5	8.5
25	.0	.0	.0	2.0	.0	1.0	7.0	4.5	5.5	10.0	7.5	8.5
26	2.0	.0	.5	3.0	1.0	2.0	8.0	4.0	6.0	11.5	7.5	9.5
27	2.5	1.5	2.0	3.5	1.0	2.0	7.5	4.0	5.5	13.5	7.0	10.0
28	2.0	1.0	1.5	3.5	1.0	2.0	7.5	4.5	6.0	14.0	8.5	11.0
29	---	---	---	2.5	1.0	1.5	9.5	3.5	6.0	14.0	9.5	11.5
30	---	---	---	2.5	1.0	2.0	9.5	4.0	6.5	13.5	10.0	11.5
31	---	---	---	4.0	1.0	2.0	---	---	---	13.5	9.0	11.5
MONTH	2.5	.0	.4	4.0	.0	1.3	9.5	.0	4.0	14.0	2.5	8.1

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--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
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.0	10.0	12.0	15.0	12.0	13.0	14.5	12.0	13.0	12.0	9.5	10.5
2	14.5	10.5	12.5	15.5	11.5	13.5	15.0	12.0	13.5	12.5	10.5	11.5
3	14.0	11.0	12.5	14.0	12.5	13.0	15.0	12.0	13.0	12.5	11.5	12.0
4	13.5	10.5	12.0	14.5	13.0	13.5	13.5	12.5	13.0	12.0	11.0	11.5
5	13.0	11.0	12.0	14.0	13.0	13.5	14.5	11.5	12.5	11.5	10.0	11.0
6	12.0	10.5	11.0	14.0	12.5	13.0	14.5	11.0	13.0	11.5	9.5	10.0
7	13.0	10.0	11.5	13.5	12.0	12.5	14.5	12.0	13.0	11.5	9.5	10.5
8	13.5	9.0	11.5	15.0	12.0	13.0	13.5	12.5	13.0	11.5	8.5	10.0
9	14.5	9.5	11.5	14.0	12.0	13.0	13.5	12.5	13.0	11.5	8.0	9.5
10	14.5	10.0	12.0	14.0	11.5	12.5	13.5	12.0	13.0	11.0	7.5	9.5
11	12.5	11.0	11.5	12.5	11.5	12.0	15.0	12.0	13.0	10.5	7.5	9.0
12	12.0	11.0	11.5	12.5	11.0	11.5	15.0	12.0	13.5	10.0	9.0	9.5
13	13.5	10.5	11.5	13.0	11.0	12.0	15.5	11.5	13.5	10.0	8.5	9.5
14	14.5	10.0	12.0	14.5	11.0	12.5	14.0	13.0	13.5	10.5	9.0	9.5
15	15.5	10.5	13.0	13.0	12.0	12.5	13.5	12.0	13.0	10.5	8.0	9.5
16	16.0	11.0	13.5	13.5	11.0	12.5	13.5	12.0	12.5	10.0	7.5	9.0
17	15.0	11.5	13.0	14.0	11.5	12.5	14.0	12.0	13.0	11.0	9.0	10.0
18	14.0	11.5	12.5	15.0	11.5	13.0	14.0	13.0	13.5	10.5	9.5	10.0
19	15.0	11.0	13.0	14.0	12.5	13.0	13.0	12.0	12.5	11.0	10.0	10.5
20	15.5	12.0	13.5	14.0	13.0	13.5	13.5	11.5	12.5	11.0	9.0	10.0
21	15.5	12.0	13.5	13.5	12.0	13.0	14.5	11.0	12.5	10.5	7.5	8.5
22	16.0	11.5	13.5	14.5	13.0	13.5	14.0	10.5	12.5	10.0	7.0	8.5
23	16.0	11.5	14.0	13.0	12.0	12.5	13.0	10.5	12.0	9.5	8.0	9.0
24	14.5	12.5	13.5	13.5	12.0	12.5	12.5	11.5	12.0	9.5	7.5	8.5
25	16.0	12.0	14.0	14.5	12.0	13.0	13.5	10.5	12.0	9.0	7.0	8.0
26	16.5	13.0	14.5	14.5	12.5	13.0	13.5	11.0	12.0	9.0	6.5	8.0
27	16.5	12.5	14.5	15.0	12.0	13.5	13.5	10.5	12.0	8.5	5.5	7.0
28	16.5	13.0	15.0	15.0	11.5	13.0	12.5	11.0	11.5	8.5	7.0	7.5
29	16.5	13.0	14.5	15.5	12.5	13.5	11.5	10.5	11.0	8.5	6.0	7.0
30	14.5	12.5	13.5	13.5	12.5	13.0	12.0	10.5	11.0	8.0	5.5	7.0
31	---	---	---	14.0	12.0	13.0	12.0	10.0	11.0	---	---	---
MONTH	16.5	9.0	12.8	15.5	11.0	12.9	15.5	10.0	12.6	12.5	5.5	9.4

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	237	229	231	325	256	268	269	260	264	236	228	230
2	238	232	235	261	256	258	271	264	268	248	236	242
3	241	237	238	263	259	260	272	269	270	248	233	242
4	244	239	241	263	260	261	273	265	268	233	229	230
5	248	226	239	260	256	259	273	---	---	243	231	238
6	240	199	225	257	254	256	---	233	---	240	229	234
7	243	232	239	258	255	256	596	233	333	422	226	296
8	243	241	242	261	256	258	412	237	273	408	263	---
9	246	242	244	671	252	344	238	234	235	276	270	273
10	247	244	246	511	244	373	244	236	238	276	271	272
11	247	244	246	244	108	189	239	234	236	280	273	277
12	252	243	246	251	237	247	242	234	237	273	266	268
13	250	245	247	254	250	251	239	234	236	266	265	266
14	249	244	248	252	247	250	245	238	242	332	265	273
15	249	246	248	263	249	253	248	242	246	1090	332	668
16	250	247	249	265	252	258	245	235	238	575	281	339
17	250	246	249	262	255	259	242	235	239	337	277	291
18	252	246	249	471	257	279	240	229	232	1240	294	430
19	253	248	250	279	258	263	233	231	232	776	332	448
20	251	249	250	260	257	258	508	230	275	340	302	311
21	256	250	252	314	255	271	463	232	307	307	304	305
22	265	249	253	295	256	262	246	233	242	319	303	310
23	392	247	275	257	255	256	247	235	241	383	305	335
24	269	248	255	262	257	259	235	231	233	349	298	311
25	264	246	252	263	258	260	238	235	236	299	280	285
26	256	248	250	268	263	266	244	231	235	284	270	278
27	258	251	254	266	264	265	241	233	235	292	263	273
28	262	257	259	274	263	266	236	231	233	279	263	269
29	262	259	261	422	261	336	315	230	242	265	261	263
30	262	260	261	291	259	267	327	230	263	265	260	262
31	385	258	304	---	---	---	230	227	228	266	260	263
MONTH	392	199	250	671	108	267	---	227	---	1240	226	300

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	264	256	260	325	279	289	336	300	309	282	271	275
2	264	258	261	409	280	309	322	302	309	314	268	287
3	265	259	261	358	287	315	310	256	294	268	201	233
4	265	256	261	302	282	292	328	245	274	285	216	251
5	266	255	259	760	271	406	328	258	307	287	259	275
6	264	258	261	463	283	313	310	258	280	286	269	280
7	264	261	262	951	284	476	291	247	276	284	270	277
8	275	264	268	523	302	368	280	220	255	284	244	273
9	266	260	263	711	316	483	292	221	262	283	243	268
10	268	262	266	645	387	527	282	269	268	305	283	290
11	270	261	264	575	383	479	275	219	251	336	301	313
12	264	258	260	541	430	483	280	227	262	311	300	303
13	272	253	264	475	367	412	280	267	276	358	309	327
14	281	266	274	414	368	390	273	264	269	358	328	347
15	270	265	268	428	380	403	278	261	269	361	284	319
16	271	255	265	432	370	400	276	260	268	290	253	272
17	261	253	257	395	350	365	276	269	272	290	273	284
18	275	256	265	357	344	347	273	270	272	293	284	287
19	257	250	254	367	334	351	273	268	271	290	283	288
20	269	251	255	353	337	344	282	267	275	306	288	298
21	419	259	314	342	320	333	279	267	272	304	297	300
22	417	268	308	342	318	331	275	269	272	316	301	311
23	277	264	270	320	306	316	274	266	270	313	300	306
24	277	263	269	317	303	309	278	272	274	305	297	302
25	284	265	269	320	297	307	297	273	283	315	305	311
26	523	263	350	362	295	322	276	264	272	322	313	318
27	763	341	493	344	245	291	270	257	265	344	322	332
28	649	284	352	295	250	267	271	265	268	340	326	332
29	---	---	---	438	250	311	275	270	273	336	303	326
30	---	---	---	544	289	380	278	270	274	309	301	304
31	---	---	---	446	304	359	---	---	---	305	299	301
MONTH	763	250	281	951	245	364	336	219	275	361	201	296

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	299	286	294	256	245	252	259	251	253	261	249	255
2	290	264	272	249	244	247	260	250	254	261	152	234
3	289	265	278	275	230	254	264	127	214	240	135	191
4	269	255	261	230	81	171	240	163	205	247	118	212
5	265	250	256	217	63	137	250	240	247	237	126	196
6	270	247	258	220	99	172	278	249	253	251	236	243
7	262	248	257	228	212	221	260	249	253	254	201	241
8	268	260	263	235	113	186	259	250	253	243	195	229
9	266	251	258	229	182	210	260	252	255	262	236	244
10	257	249	253	237	208	228	262	252	256	256	242	248
11	258	229	251	244	198	221	261	251	255	256	244	248
12	251	229	241	253	244	249	260	254	257	252	248	250
13	251	243	246	258	242	251	264	252	257	257	248	253
14	255	249	251	253	226	241	260	251	255	256	238	246
15	260	252	255	254	247	250	263	254	258	256	249	252
16	261	257	259	253	245	250	263	231	257	262	251	255
17	257	251	255	252	245	249	268	208	254	258	250	253
18	264	255	260	254	250	252	242	173	211	260	242	252
19	266	260	264	257	223	251	270	230	252	255	229	244
20	261	248	255	235	173	207	254	216	240	259	252	255
21	258	249	252	241	224	235	260	250	253	262	256	258
22	276	258	267	234	150	198	259	250	253	265	257	261
23	287	273	280	257	234	243	262	250	255	263	255	260
24	277	263	266	254	242	246	260	242	252	271	257	261
25	270	261	264	253	238	244	259	250	253	278	268	274
26	264	246	254	251	244	247	260	249	256	276	261	267
27	254	244	248	255	249	251	259	248	254	272	262	267
28	261	248	255	257	250	254	261	250	257	271	264	268
29	265	253	260	260	251	255	258	250	254	270	260	265
30	260	251	256	261	234	249	261	250	255	270	264	266
31	---	---	---	253	237	249	262	250	256	---	---	---
MONTH	299	229	260	275	63	231	278	127	250	278	118	248

15276000 SHIP CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°13′32″, long 149°38′06″, in SW¼ SE¼ sec. 9, T. 13 N., R. 2 W. (Anchorage A-8 quad), Municipality of Anchorage, Hydrologic Unit 19020401, in Fort Richardson Military Reservation, on left bank, 800 ft downstream from diversion dam, 3.3 mi upstream from North Fork Ship Creek, and 7.8 mi east of intersection of Seward and Glenn Highways in Anchorage.

DRAINAGE AREA.--90.5 mi^2.

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1936: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 490 ft above sea level, from topographic map. Prior to August 22, 1985, water-stage recorder at dam 800 ft upstream. See WSP 1936 for history of changes prior to October 1, 1954.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Discharge data represent the net flow remaining after diversion for water supply to Fort Richardson, Elmendorf Air Force Base, and Municipality of Anchorage. Average diversion for water year 2001 was 8.34 ft^3/s. Diversion began in 1944. Magnitude of discharges downstream of dam may be affected by periodic spillway adjustment.

COOPERATION.--Gage inspected and records of diversion provided by Office of Post Engineers, Fort Richardson.

REVISIONS.--Revised figures of discharge for water years 1987 through 1997 are given below. These figures supercede those published in reports for 1987-97.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	172	e85	e30	e29	e19	e12	27	306	463	245	97
2	206	164	e85	e30	e29	e20	e12	31	326	417	219	92
3	221	147	e80	e30	e29	e21	e14	34	323	386	198	104
4	246	141	e80	e30	e28	e21	e15	40	304	360	189	196
5	220	135	e80	e30	e28	e19	e13	45	340	360	196	163
6	207	124	e85	e30	e27	e17	e12	48	391	356	199	177
7	198	109	e85	e30	e26	e16	e14	53	382	329	189	264
8	194	124	87	e30	e25	e15	e12	58	390	296	175	381
9	187	115	131	e30	e23	e14	e14	66	364	274	163	324
10	291	115	129	e28	e22	e13	e17	66	330	261	157	290
11	796	113	116	e28	e21	e12	e17	71	318	261	155	251
12	721	107	89	e28	e20	e11	e15	84	318	271	156	228
13	626	101	76	e28	e19	e11	e14	92	307	280	177	201
14	577	113	70	e28	e19	e10	e14	108	343	266	192	185
15	484	111	68	e30	e18	e10	e13	127	356	242	194	174
16	435	92	67	e30	e18	e10	e12	149	354	252	186	167
17	379	87	62	e30	e18	e11	e12	193	334	262	175	166
18	346	e90	61	e30	e17	e12	e10	181	303	280	165	155
19	326	e90	60	e30	e17	e11	e11	162	283	281	156	153
20	309	e90	56	e30	e17	e11	e12	166	300	289	148	148
21	295	e90	e55	e30	e17	e12	e14	190	375	303	137	140
22	264	e90	e50	e32	e17	e12	e15	190	456	301	130	135
23	241	e90	e45	e32	e17	e12	17	169	422	296	125	267
24	224	e85	e40	e34	e17	e13	20	182	379	264	116	279
25	206	e85	e38	e34	e18	e13	24	178	339	256	112	234
26	190	e85	e36	e32	e19	e14	21	170	314	256	110	211
27	176	e85	e34	e32	e20	e14	20	194	326	252	107	195
28	162	e85	e32	e32	e20	e15	19	212	318	249	107	180
29	142	e85	e30	e32	---	e15	20	234	448	256	108	168
30	139	e85	e30	e30	---	e13	25	254	546	269	103	159
31	159	---	e30	e30	---	e12	---	281	---	274	96	---
TOTAL	9373	3205	2072	940	595	429	460	4055	10595	9162	4885	5884
MEAN	302	107	66.8	30.3	21.2	13.8	15.3	131	353	296	158	196
MAX	796	172	131	34	29	21	25	281	546	463	245	381
MIN	139	85	30	28	17	10	10	27	283	242	96	92
AC-FT	18590	6360	4110	1860	1180	851	912	8040	21020	18170	9690	11670

ADJUSTED TO INCLUDE DIVERSION

MEAN	329	133	94.0	57.1	48.3	40.0	41.2	158	383	328	191	203
CFSM	3.64	1.47	1.04	0.63	0.53	0.44	0.46	1.75	4.23	3.62	2.11	2.24
IN	4.19	1.64	1.20	0.73	0.56	0.51	0.51	2.02	4.72	4.18	2.44	2.50
AC-FT	20250	7940	5780	3510	2680	2460	2450	9740	22800	20180	11760	12060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1987, BY WATER YEAR (WY)#

MEAN	154	80.8	47.8	30.8	21.2	15.8	21.7	148	440	321	225	213
MAX	302	177	107	79.3	54.6	42.1	49.4	341	798	645	510	471
(WY)	1987	1953	1948	1961	1961	1947	1964	1960	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	224	128	94.6	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1954	1954	1969	1969

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

REVISIONS.--Continued.

SUMMARY STATISTICS	FOR 1986 CALENDAR YEAR		FOR 1987 WATER YEAR		WATER YEARS 1947 - 1987#	
ANNUAL TOTAL	45992.0		51655			
ANNUAL MEAN	126		142		144	
ANNUAL MEAN	*151		*167		*161	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	796	Oct 11	796	Oct 11	1420	Aug 9 1971
LOWEST DAILY MEAN	6.5	Apr 22	a10	Mar 14	b.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	7.9	Apr 19	11	Mar 11	.43	Jan 9 1956
MAXIMUM PEAK FLOW			921	Oct 11	1860	Jun 21 1949
MAXIMUM PEAK STAGE			6.08	Oct 11	c3.44	Jun 21 1949
MAXIMUM PEAK STAGE					d6.08	Oct 11 1986
INSTANTANEOUS LOW FLOW			f6.4	Apr 7		
ANNUAL RUNOFF (AC-FT)	91230		102500		104000	
ANNUAL RUNOFF (AC-FT)	*110000		*121600		*117400	
ANNUAL RUNOFF (CFSM)	*1.67		*1.85		*1.79	
ANNUAL RUNOFF (IN)	*22.80		*25.19		*24.31	
10 PERCENT EXCEEDS	262		325		366	
50 PERCENT EXCEEDS	97		107		77	
90 PERCENT EXCEEDS	12		14		14	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a From Mar, 14 to 16 and Apr. 18
b No flow during one or more days in water years 1956, 1960, 1969, and 1971
c Site and datum then in use
d Current site and datum
f Minimum observed, from current-meter measurement, but may have been less during periods of ice effect in Mar. and Apr.

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

REVISIONS.--Continued.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	e100	e50	e34	e16	e8.0	e3.0	e32	402	548	216	213
2	168	102	e50	e34	e16	e7.0	e4.0	e32	432	598	238	189
3	176	100	e48	e34	e15	e7.0	e3.0	e28	486	651	223	180
4	153	100	e48	e34	e15	e6.0	e3.0	36	559	633	208	191
5	144	89	e48	e30	e14	e6.0	e2.0	e36	625	591	201	177
6	135	89	e48	e28	e14	e6.0	e2.0	48	772	540	202	162
7	131	85	e50	e28	e14	e6.0	e2.0	59	807	500	196	153
8	127	85	e50	e26	e13	e5.0	e4.0	e75	804	458	183	140
9	128	e80	e50	e26	e13	e4.0	e4.0	e85	882	439	165	135
10	140	e80	e50	e22	e13	e4.0	e4.0	104	913	477	162	134
11	131	e80	e50	e22	e13	e6.0	e4.0	122	881	509	230	127
12	123	80	e50	e22	e12	e6.0	e4.0	136	822	480	249	122
13	118	77	e50	e22	e13	e5.0	e4.0	143	800	468	226	129
14	119	66	e50	e22	e13	e4.0	e4.0	150	812	453	196	122
15	125	e62	e50	e22	e13	e4.0	e4.0	145	820	433	173	115
16	116	e62	e48	e22	e13	e4.0	e6.0	150	762	460	161	112
17	116	e62	e48	e22	e13	e4.0	e6.0	171	731	437	159	106
18	119	e62	e48	e20	e13	e4.0	e8.0	177	737	401	159	104
19	144	63	e46	e20	e13	e4.0	e9.0	222	702	379	152	101
20	130	63	e46	e18	e12	e5.0	e9.0	227	655	376	144	153
21	126	61	e44	e18	e13	e4.0	e12	238	601	373	149	195
22	156	e55	e44	e18	e13	e4.0	e10	277	606	334	184	186
23	148	54	e42	e18	e13	e4.0	e12	306	592	303	176	177
24	139	55	e39	e18	e12	e4.0	e15	306	562	282	150	164
25	128	e50	e38	e18	e11	e4.0	e10	321	551	256	144	149
26	119	e50	e36	e16	e9.0	e4.0	e11	354	589	240	224	138
27	105	e50	e35	e16	e8.0	e4.0	e26	406	605	235	236	136
28	106	e50	e35	e16	e8.0	e4.0	e34	427	565	235	216	131
29	92	e50	e36	e16	e8.0	e4.0	e37	444	553	220	206	123
30	104	e50	e36	e16	---	e4.0	e34	443	553	208	242	120
31	e100	---	e34	e16	---	e4.0	---	428	---	197	223	---
TOTAL	4016	2112	1397	694	366.0	149.0	290.0	6128	20181	12714	5993	4384
MEAN	130	70.4	45.1	22.4	12.6	4.81	9.67	198	673	410	193	146
MAX	176	102	50	34	16	8.0	37	444	913	651	249	213
MIN	92	50	34	16	8.0	4.0	2.0	28	402	197	144	101
AC-FT	7970	4190	2770	1380	726	296	575	12150	40030	25220	11890	8700

ADJUSTED TO INCLUDE DIVERSION

MEAN	161	99.0	73.7	52.6	43.5	35.5	36.6	224	707	447	223	177
CFSM	1.78	1.09	0.81	0.58	0.48	0.39	0.40	2.48	7.82	4.93	2.46	1.96
IN	2.05	1.22	0.94	0.67	0.52	0.45	0.45	2.86	8.72	5.69	2.84	2.18
AC-FT	9910	5890	4530	3240	2500	2180	2180	13790	42090	27460	13720	10540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1988, BY WATER YEAR (WY)#

MEAN	153	80.6	47.8	30.6	20.9	15.5	21.4	149	445	323	224	211
MAX	302	177	107	79.3	54.6	42.1	49.4	341	798	645	510	471
(WY)	1987	1953	1948	1961	1961	1947	1964	1960	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	224	128	94.6	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1954	1954	1969	1969

SUMMARY STATISTICS	FOR 1987 CALENDAR YEAR		FOR 1988 WATER YEAR		WATER YEARS 1947 - 1988#	
ANNUAL TOTAL	44530		58424.0			
ANNUAL MEAN	122		160		144	
ANNUAL MEAN	*149		*190		*162	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	546	Jun 30	913	Jun 10	1420	Aug 9 1971
LOWEST DAILY MEAN	a10	Mar 14	b2.0	Apr 5	c.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	11	Mar 11	2.7	Apr 1	.43	Jan 9 1956
MAXIMUM PEAK FLOW			983	Jun 9	1860	Jun 21 1949
MAXIMUM PEAK STAGE			6.06	Jun 9	d3.44	Jun 21 1949
MAXIMUM PEAK STAGE					f6.08	Oct 11 1986
INSTANTANEOUS LOW FLOW			g1.4	Apr 7		
ANNUAL RUNOFF (AC-FT)	88330		115900		104200	
ANNUAL RUNOFF (AC-FT)	*108000		*138000		*117400	
ANNUAL RUNOFF (CFSM)	*1.64		*2.10		*1.79	
ANNUAL RUNOFF (IN)	*22.37		*28.60		*24.31	
10 PERCENT EXCEEDS	303		482		369	
50 PERCENT EXCEEDS	80		85		77	
90 PERCENT EXCEEDS	14		5.0		13	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a From Mar. 14 to 16 and Apr. 7
b Apr. 5 to 7
c No flow during one or more days in water years 1956, 1960, 1969, and 1971
d Site and datum then in use
e Estimated
f Current site and datum
g Minimum observed, from current-meter measurement, but may have been less during periods of ice effect in Mar. and Apr.

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

REVISIONS.--Continued.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	86	e50	e40	e8.0	e7.0	e15	80	317	362	244	569
2	112	81	e50	e40	e8.0	e6.5	e15	98	282	383	276	575
3	112	e75	e50	e40	e8.0	e6.0	e15	114	311	364	250	537
4	156	e75	e50	e40	e8.0	e6.5	e14	121	383	348	221	459
5	226	e75	e50	e40	e8.0	e6.5	e14	109	396	348	201	535
6	297	e75	e50	e35	e8.0	e6.5	e13	97	383	309	196	531
7	286	e70	e60	e35	e8.0	e6.5	e13	100	389	294	245	529
8	275	e70	e70	e35	e8.0	e6.5	e13	114	411	254	208	504
9	244	e70	e65	e30	e8.0	e6.5	e12	125	411	249	202	469
10	215	e70	e65	e30	e9.0	e6.5	e12	127	374	233	193	451
11	222	e70	e65	e30	e9.0	e7.0	e11	134	368	226	189	403
12	204	e65	e65	e30	e9.0	e7.5	e11	123	367	225	177	384
13	190	e65	e60	e28	e9.0	e8.0	e10	117	353	217	175	353
14	166	e65	e45	e28	e9.0	e8.5	e12	115	382	221	168	332
15	153	e65	e35	e28	e9.0	e9.0	e13	111	400	202	156	298
16	148	e60	e30	e28	e9.0	e9.5	e14	117	363	185	148	273
17	142	e60	e25	e26	e9.0	e11	e16	132	335	171	142	282
18	147	e55	e25	e22	e9.0	e11	19	124	357	160	143	287
19	143	e55	e25	e15	e9.0	e11	22	123	369	158	151	264
20	140	e55	e25	e12	e9.0	e12	27	138	383	199	148	249
21	126	e55	e25	e10	e8.5	e12	30	183	373	199	144	253
22	120	e55	e25	e9.0	e8.5	e12	35	196	365	186	139	242
23	110	e55	e25	e8.0	e8.0	e12	38	195	370	198	129	234
24	111	e55	e25	e7.5	e8.0	e13	35	194	432	242	131	243
25	105	e55	e25	e7.0	e7.5	e13	48	189	381	232	215	305
26	102	e55	e30	e7.0	e7.5	e14	56	206	364	204	982	356
27	102	e55	e30	e7.0	e7.0	e15	65	233	362	180	1130	340
28	104	e55	e30	e7.0	e7.0	e15	80	253	370	173	1010	301
29	107	e50	e35	e8.0	---	e15	71	306	369	181	898	241
30	97	e50	e35	e8.0	---	e16	74	378	370	202	754	234
31	90	---	e40	e8.0	---	e16	---	368	---	195	623	---
TOTAL	4862	1902	1285	698.5	233.0	312.5	823	5020	11090	7300	9988	11033
MEAN	157	63.4	41.5	22.5	8.32	10.1	27.4	162	370	235	322	368
MAX	297	86	70	40	9.0	16	80	378	432	383	1130	575
MIN	90	50	25	7.0	7.0	6.0	10	80	282	158	129	234
AC-FT	9640	3770	2550	1390	462	620	1630	9960	22000	14480	19810	21880

ADJUSTED TO INCLUDE DIVERSION

MEAN	186	93.3	69.8	50.8	37.8	37.9	52.1	189	401	267	346	405
CFSM	2.05	1.03	0.77	0.56	0.42	0.42	0.58	2.08	4.43	2.95	3.83	4.47
IN	2.37	1.15	0.89	0.65	0.43	0.48	0.64	2.40	4.94	3.40	4.41	4.99
AC-FT	11430	5550	4290	3120	2100	2330	3100	11600	23870	16400	21300	24100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1989, BY WATER YEAR (WY)#

MEAN	153	80.2	47.6	30.5	20.7	15.4	21.5	149	444	321	226	215
MAX	302	177	107	79.3	54.6	42.1	49.4	341	798	645	510	471
(WY)	1987	1953	1948	1961	1961	1947	1964	1960	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	224	128	94.6	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1954	1954	1969	1969

SUMMARY STATISTICS	FOR 1988 CALENDAR YEAR		FOR 1989 WATER YEAR		WATER YEARS 1947 - 1989#	
ANNUAL TOTAL	58948.0		54547.0			
ANNUAL MEAN	161		149		144	
ANNUAL MEAN	*191		*178		*163	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	913	Jun 10	1130	Aug 27	1420	Aug 9 1971
LOWEST DAILY MEAN	a2.0	Apr 5	6.0	Mar 3	b.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	2.7	Apr 1	6.4	Mar 2	.43	Jan 9 1956
MAXIMUM PEAK FLOW			1260	Aug 27	1860	Jun 21 1949
MAXIMUM PEAK STAGE			6.38	Aug 27	c3.44	Jun 21 1949
MAXIMUM PEAK STAGE					d6.38	Aug 27 1989
ANNUAL RUNOFF (AC-FT)	116900		108200		104300	
ANNUAL RUNOFF (AC-FT)	*139000		*129200		*118100	
ANNUAL RUNOFF (CFSM)	*2.11		*1.97		*1.80	
ANNUAL RUNOFF (IN)	*28.79		*26.77		*24.46	
10 PERCENT EXCEEDS	482		369		369	
50 PERCENT EXCEEDS	72		90		77	
90 PERCENT EXCEEDS	5.0		8.0		13	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Apr. 5 to 7
b No flow during one or more days in water years 1956, 1960, 1969, and 1971
c Site and datum then in use
d Current site and datum
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	145	e60	e34	e28	e22	e14	259	719	313	98	81
2	264	150	e60	e34	e28	e20	e14	215	700	297	91	78
3	238	165	e60	e34	e28	e20	e15	194	691	282	87	82
4	241	150	e60	e34	e28	e20	e14	181	726	270	94	115
5	239	143	e60	e34	e28	e20	e13	187	766	e260	94	98
6	250	127	e55	e32	e28	e19	e13	212	789	e240	84	99
7	243	e120	e55	e32	e28	e18	e13	217	825	e220	79	97
8	237	e110	e55	e32	e28	e17	e13	229	777	e200	77	117
9	222	e100	e55	e32	e28	e16	e13	273	683	e190	82	302
10	213	e90	e55	e32	e28	e15	e13	354	626	185	81	391
11	193	e80	e55	e30	e28	e15	e14	375	585	172	88	372
12	182	e80	e55	e30	e28	e15	e16	418	509	165	83	374
13	e180	e80	e50	e30	e28	e14	e19	464	514	151	79	418
14	e180	e80	e50	e30	e28	e9.0	e24	458	544	150	77	450
15	e190	e80	e50	e30	e28	e4.5	e28	461	498	145	76	409
16	e190	e75	e50	e30	e28	e2.5	e36	520	492	141	78	347
17	200	e75	e50	e30	e26	e2.0	e38	566	480	136	76	302
18	215	e75	e50	e30	e26	e2.0	e50	636	397	130	78	268
19	215	e75	e48	e30	e26	e2.0	e65	636	362	131	81	252
20	205	e75	e48	e30	e26	e2.0	e80	682	335	135	85	245
21	184	e70	e46	e30	e24	e2.0	e90	688	326	136	83	228
22	181	e70	e46	e30	e24	e3.0	e110	559	e320	131	98	245
23	207	e70	e44	e30	e24	e4.0	e120	460	e300	125	89	238
24	184	e70	e42	e30	e22	e6.0	131	442	e320	122	84	226
25	166	e70	e40	e30	e22	e9.0	141	490	e320	118	79	207
26	181	e65	e38	e30	e22	e12	149	572	329	112	95	196
27	238	e65	e36	e30	e22	e13	163	610	321	108	91	193
28	172	e65	e36	e30	e22	e13	198	611	316	108	91	193
29	153	e65	e36	e30	---	e14	241	710	317	120	e95	183
30	143	e65	e36	e30	---	e15	242	721	317	114	e90	200
31	141	---	e36	e30	---	e14	---	737	---	112	e80	---
TOTAL	6322	2750	1517	960	734	360.0	2090	14137	15204	5219	2643	7006
MEAN	204	91.7	48.9	31.0	26.2	11.6	69.7	456	507	168	85.3	234
MAX	275	165	60	34	28	22	242	737	825	313	98	450
MIN	141	65	36	30	22	2.0	13	181	300	108	76	78
AC-FT	12540	5450	3010	1900	1460	714	4150	28040	30160	10350	5240	13900

ADJUSTED TO INCLUDE DIVERSION

MEAN	225	119	82.4	56.4	49.4	36.4	94.1	482	533	200	115	250
CFSM	2.49	1.31	0.91	0.62	0.54	0.40	1.04	5.32	5.89	2.21	1.27	2.76
IN	2.87	1.47	1.05	0.72	0.57	0.46	1.16	6.13	6.57	2.55	1.47	3.08
AC-FT	13840	7080	5060	3470	2740	2240	5600	29610	31730	12300	7080	14860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1990, BY WATER YEAR (WY)#

MEAN	154	80.4	47.6	30.5	20.8	15.3	22.6	156	445	317	223	215
MAX	302	177	107	79.3	54.6	42.1	69.7	456	798	645	510	471
(WY)	1987	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	224	128	85.3	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1954	1954	1990	1969

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1989 CALENDAR YEAR		FOR 1990 WATER YEAR		WATER YEARS 1947 - 1990#	
ANNUAL TOTAL	57087.0		58942.0			
ANNUAL MEAN	156		161		144	
ANNUAL MEAN	*184		*187		*163	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	1130	Aug 27	825	Jun 7	1420	Aug 9 1971
LOWEST DAILY MEAN	6.0	Mar 3	a2.0	Mar 17	b.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	6.4	Mar 2	2.2	Mar 16	.43	Jan 9 1956
MAXIMUM PEAK FLOW			862	Jun 7	1860	Jun 21 1949
MAXIMUM PEAK STAGE			6.02	Jun 7	c3.44	Jun 21 1949
MAXIMUM PEAK STAGE					d6.38	Aug 27 1989
ANNUAL RUNOFF (AC-FT)	113200		116900		104600	
ANNUAL RUNOFF (AC-FT)	*133900		*135600		*118100	
ANNUAL RUNOFF (CFSM)	*2.04		*2.06		*1.80	
ANNUAL RUNOFF (IN)	*27.74		*28.10		*24.46	
10 PERCENT EXCEEDS	369		445		369	
50 PERCENT EXCEEDS	115		87		78	
90 PERCENT EXCEEDS	8.0		18		13	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Mar. 17 to 21
b No flow during one or more days in water years 1956, 1960, 1969, and 1971
c Site and datum then in use
d Current site and datum

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	e66	e25	e15	e14	e14	e11	e30	260	409	199	119
2	151	e66	e25	e15	e14	e14	e11	e38	267	368	204	118
3	146	e66	e24	e15	e14	e14	e11	44	285	346	199	121
4	137	e66	e24	e15	e14	e14	e11	50	326	343	193	130
5	145	e66	e23	e15	e14	e14	e11	50	301	350	188	134
6	142	e64	e23	e15	e14	e14	e11	57	305	297	177	137
7	140	e62	e22	e15	e14	e14	e11	62	295	276	169	136
8	136	e60	e22	e15	e14	e14	e11	59	294	266	160	140
9	120	e58	e21	e15	e14	e14	e11	56	296	306	157	145
10	116	e56	e21	e15	e14	e14	e11	54	294	292	150	158
11	119	e52	e21	e15	e14	e13	e11	54	330	428	150	173
12	116	e50	e20	e15	e14	e13	e11	53	380	452	148	161
13	106	e47	e20	e15	e14	e13	e11	56	407	397	143	158
14	103	e45	e19	e15	e14	e13	e11	55	454	361	138	156
15	e80	e43	e19	e15	e14	e13	e11	57	491	319	137	153
16	e80	e41	e19	e15	e14	e13	e11	64	476	316	131	173
17	e75	e40	e18	e15	e14	e13	e11	74	470	321	188	201
18	e75	e38	e18	e15	e14	e13	e11	81	442	291	201	190
19	e70	e36	e18	e15	e14	e13	e11	78	441	280	148	176
20	e70	e35	e17	e15	e14	e13	e11	94	508	274	118	178
21	e70	e34	e17	e15	e14	e12	e11	129	568	254	96	164
22	e70	e33	e17	e15	e14	e12	e11	156	598	245	92	154
23	e70	e32	e16	e15	e14	e12	e12	194	585	247	87	157
24	e70	e31	e16	e15	e14	e12	e13	242	529	236	86	145
25	e70	e30	e16	e15	e14	e12	e14	312	493	220	106	138
26	e68	e29	e15	e15	e14	e12	e15	335	438	205	111	164
27	e68	e28	e15	e15	e14	e12	e17	297	418	192	105	184
28	e68	e27	e15	e15	e14	e12	e19	276	405	186	110	169
29	e68	e26	e15	e15	---	e12	e21	328	393	200	115	165
30	e68	e26	e15	e15	---	e12	e25	308	415	196	117	155
31	e68	---	e15	e15	---	e12	---	277	---	192	118	---
TOTAL	3060	1353	591	465	392	402	378	4020	12164	9065	4441	4652
MEAN	98.7	45.1	19.1	15.0	14.0	13.0	12.6	130	405	292	143	155
MAX	175	66	25	15	14	14	25	335	598	452	204	201
MIN	68	26	15	15	14	12	11	30	260	186	86	118
AC-FT	6070	2680	1170	922	778	797	750	7970	24130	17980	8810	9230

ADJUSTED TO INCLUDE DIVERSION

MEAN	129	78.7	51.3	46.4	39.8	32.7	33.7	156	428	317	168	177
CFSM	1.43	0.87	0.57	0.51	0.44	0.36	0.37	1.72	4.73	3.50	1.86	1.96
IN	1.65	0.97	0.65	0.59	0.46	0.42	0.42	1.99	5.28	4.03	2.14	2.18
AC-FT	7958	4681	3151	2851	2213	2013	2008	9595	25462	19465	10351	10551

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1991, BY WATER YEAR (WY)#

MEAN	153	79.6	47.0	30.1	20.6	15.3	22.4	156	444	317	221	214
MAX	302	177	107	79.3	54.6	42.1	69.7	456	798	645	510	471
(WY)	1987	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	224	128	85.3	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1954	1954	1990	1969

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1947 - 1991#	
ANNUAL TOTAL	53357.0		40983			
ANNUAL MEAN	146		112		144	
ANNUAL MEAN	*173		*138		*163	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	825	Jun 7	598	Jun 22	1420	Aug 9 1971
LOWEST DAILY MEAN	a2.0	Mar 17	b11	Apr 1	c.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	2.2	Mar 16	11	Apr 1	.43	Jan 9 1956
MAXIMUM PEAK FLOW			917	Jun 23	1860	Jun 21 1949
MAXIMUM PEAK STAGE			5.82	Jun 23	d3.44	Jun 21 1949
MAXIMUM PEAK STAGE					f6.38	Aug 27 1989
ANNUAL RUNOFF (AC-FT)	105800		81290		104100	
ANNUAL RUNOFF (AC-FT)	*125400		*100300		*118100	
ANNUAL RUNOFF (CFSM)	*1.91		*1.53		*1.80	
ANNUAL RUNOFF (IN)	*25.98		*20.78		*24.46	
10 PERCENT EXCEEDS	445		310		368	
50 PERCENT EXCEEDS	70		56		77	
90 PERCENT EXCEEDS	15		13		13	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Mar. 17 to 22
b Apr. 1 to 22
c No flow during one or more days in water years 1956, 1960, 1969, and 1971
d Site and datum then in use
f Current site and datum

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	69	e35	e20	e20	e16	e12	42	608	455	171	156
2	146	71	e35	e20	e20	e16	e12	40	611	464	160	207
3	147	68	e35	e20	e20	e16	e12	40	596	473	157	194
4	144	70	e35	e20	e20	e16	e12	39	561	468	166	183
5	131	74	e35	e20	e20	e16	e12	38	541	447	194	184
6	127	73	e35	e18	e22	e14	e14	37	546	412	183	213
7	121	67	e35	e18	e22	e14	e14	38	576	383	170	206
8	116	63	e35	e18	e22	e14	e16	45	620	346	154	183
9	110	63	e30	e18	e22	e14	e16	51	631	327	141	174
10	110	58	e30	e18	e22	e14	e18	54	659	334	131	164
11	107	54	e30	e16	e24	e12	e18	55	697	392	135	155
12	100	e50	e30	e16	e24	e12	e20	59	674	370	128	149
13	106	e50	e30	e16	e24	e12	e22	70	646	353	124	143
14	105	e50	e30	e16	e24	e12	e24	84	629	338	117	136
15	93	e50	e30	e16	e24	e12	27	93	617	316	112	130
16	100	e50	e30	e14	e22	e10	29	86	568	297	115	122
17	99	e45	e25	e14	e22	e10	29	85	516	293	123	122
18	92	e45	e25	e14	e22	e10	30	98	478	284	113	153
19	108	e45	e25	e14	e22	e10	29	118	472	276	113	138
20	101	e45	e25	e14	e22	e10	29	154	474	293	116	120
21	82	e45	e25	e16	e20	e10	31	190	472	283	105	113
22	92	e45	e25	e16	e20	e10	32	239	475	271	103	110
23	76	e45	e25	e16	e20	e10	32	274	451	253	103	98
24	79	e45	e25	e16	e20	e10	35	319	421	240	102	97
25	72	e40	e25	e16	e20	e10	38	386	409	235	113	94
26	81	e40	e24	e18	e18	e10	41	464	392	231	134	91
27	100	e40	e24	e18	e18	e10	45	499	413	214	120	93
28	77	e40	e24	e18	e18	e10	47	518	424	205	114	e100
29	80	e40	e22	e18	e18	e10	47	530	474	199	111	e95
30	71	e40	e22	e18	---	e10	46	554	488	188	118	e90
31	70	---	e22	e18	---	e10	---	595	---	179	167	---
TOTAL	3196	1580	883	528	612	370	789	5894	16139	9819	4113	4213
MEAN	103	52.7	28.5	17.0	21.1	11.9	26.3	190	538	317	133	140
MAX	153	74	35	20	24	16	47	595	697	473	194	213
MIN	70	40	22	14	18	10	12	37	392	179	102	90
AC-FT	6340	3130	1750	1050	1210	734	1560	11690	32010	19480	8160	8360

ADJUSTED TO INCLUDE DIVERSION

MEAN	126	77.4	52.1	42.5	45.1	35.8	40.2	210	562	344	159	169
CFSM	1.39	0.86	0.58	0.47	0.50	0.40	0.44	2.32	6.21	3.80	1.76	1.87
IN	1.60	0.95	0.66	0.54	0.54	0.46	0.50	2.68	6.93	4.38	2.02	2.09
AC-FT	7730	4600	3200	2610	2590	2200	2390	12930	33450	21140	9770	10070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1992, BY WATER YEAR (WY)#

MEAN	152	79.1	46.6	29.8	20.6	15.2	22.5	156	446	317	219	212
MAX	302	177	107	79.3	54.6	42.1	69.7	456	798	645	510	471
(WY)	1987	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	224	128	85.3	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1954	1954	1990	1969

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1947 - 1992#	
ANNUAL TOTAL	41638		48136			
ANNUAL MEAN	114		132		143	
ANNUAL MEAN	*138		*155		*162	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	598	Jun 22	697	Jun 11	1420	Aug 9 1971
LOWEST DAILY MEAN	a11	Apr 1	b10	Mar 16	c.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	11	Apr 1	10	Mar 16	.43	Jan 9 1956
MAXIMUM PEAK FLOW			750	Jun 11	1860	Jun 21 1949
MAXIMUM PEAK STAGE			5.90	Jun 11	d3.44	Jun 21 1949
MAXIMUM PEAK STAGE					f6.38	Aug 27 1989
ANNUAL RUNOFF (AC-FT)	82590		95480		103900	
ANNUAL RUNOFF (AC-FT)	*100000		*112700		*117400	
ANNUAL RUNOFF (CFSM)	*1.52		*1.72		*1.79	
ANNUAL RUNOFF (IN)	*20.73		*23.35		*24.30	
10 PERCENT EXCEEDS	310		431		369	
50 PERCENT EXCEEDS	57		56		76	
90 PERCENT EXCEEDS	13		14		13	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Apr. 1 to 22
b Mar. 16 to 31
c No flow during one or more days in water years 1956, 1960, 1969, and 1971
d Site and datum then in use
f Current site and datum

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e90	e50	e30	e19	e13	e13	e15	84	850	196	e85	326
2	90	e46	e30	e19	e13	e13	e15	89	e800	193	e85	335
3	84	e46	e30	e19	e13	e13	e16	96	e750	183	e90	264
4	82	e46	e28	e19	e14	e13	e16	97	e700	175	e90	318
5	79	e46	e28	e18	e14	e13	e16	113	e650	168	e95	332
6	117	e44	e28	e18	e14	e13	e16	117	e600	158	e95	333
7	117	e44	e28	e18	e14	e13	e16	124	e550	149	92	362
8	92	e42	e28	e18	e15	e13	e16	125	e500	141	89	302
9	88	e42	e26	e17	e15	e13	e18	128	486	142	93	265
10	77	e42	e26	e17	e15	e13	e18	131	436	147	88	255
11	69	e42	e26	e17	e15	e13	e20	125	438	155	89	218
12	70	e40	e26	e17	e15	e13	e22	123	440	158	91	223
13	76	e40	e26	e17	e15	e13	e24	148	420	160	90	211
14	70	e40	e24	e16	e15	e13	27	178	413	165	159	203
15	64	e38	e24	e16	e15	e13	29	218	405	158	234	194
16	62	e38	e24	e16	e14	e14	33	276	395	158	220	410
17	e60	e38	e24	e16	e14	e14	37	345	357	149	172	462
18	e60	e36	e24	e15	e14	e14	40	401	333	147	154	383
19	e60	e36	e24	e15	e14	e14	37	464	304	125	131	378
20	e60	e36	e22	e15	e14	e14	37	528	307	121	145	415
21	e55	e36	e22	e14	e14	e14	37	590	322	113	155	567
22	e55	e34	e22	e14	e14	e14	39	626	325	108	164	456
23	e55	e34	e22	e13	e14	e14	43	609	311	102	137	397
24	e55	e34	e22	e13	e14	e14	48	637	281	97	128	358
25	e55	e34	e22	e13	e14	e14	58	621	262	102	123	340
26	e55	e32	e20	e13	e13	e15	67	570	235	95	119	319
27	e50	e32	e20	e13	e13	e15	76	530	234	82	129	322
28	e50	e32	e20	e13	e13	e15	78	548	220	82	113	362
29	e50	e30	e20	e13	---	e15	72	610	210	e80	127	360
30	e50	e30	e20	e13	---	e15	77	684	205	e80	176	557
31	e50	---	e20	e13	---	e15	---	781	---	e85	229	---
TOTAL	2147	1160	756	487	394	425	1063	10716	12739	4174	3987	10227
MEAN	69.3	38.7	24.4	15.7	14.1	13.7	35.4	346	425	135	129	341
MAX	117	50	30	19	15	15	78	781	850	196	234	567
MIN	50	30	20	13	13	13	15	84	205	80	85	194
AC-FT	4260	2300	1500	966	781	843	2110	21260	25270	8280	7910	20290

ADJUSTED TO INCLUDE DIVERSION

MEAN	96.2	63.8	50.4	41.9	39.1	29.7	48.6	367	452	161	158	368
CFSM	1.06	0.70	0.56	0.46	0.43	0.33	0.54	4.06	4.99	1.78	1.75	4.06
IN	1.23	0.79	0.64	0.53	0.45	0.38	0.60	4.68	5.57	2.05	2.01	4.53
AC-FT	5920	3800	3100	2580	2170	1830	2890	22590	26880	9890	9720	21870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1993, BY WATER YEAR (WY)#

MEAN	150	78.2	46.1	29.5	20.5	15.2	22.8	160	446	313	217	215
MAX	302	177	107	79.3	54.6	42.1	69.7	456	798	645	510	471
(WY)	1987	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	224	128	85.3	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1954	1954	1990	

See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1992 CALENDAR YEAR		FOR 1993 WATER YEAR		WATER YEARS 1947 - 1993#	
ANNUAL TOTAL	46540		48275			
ANNUAL MEAN	127		132		143	
ANNUAL MEAN	*152		*156		*162	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	697	Jun 11	850	Jun 1	1420	Aug 9 1971
LOWEST DAILY MEAN	a10	Mar 16	b13	Jan 23	c.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	10	Mar 16	13	Jan 23	.43	Jan 9 1956
MAXIMUM PEAK FLOW			d942	Jun 1	1860	Jun 21 1949
MAXIMUM PEAK STAGE			6.10	Jun 1	f3.44	Jun 21 1949
MAXIMUM PEAK STAGE					g6.38	Aug 27 1989
ANNUAL RUNOFF (AC-FT)	92310		95750		103700	
ANNUAL RUNOFF (AC-FT)	*110000		*113200		*117400	
ANNUAL RUNOFF (CFSM)	*1.67		*1.73		*1.79	
ANNUAL RUNOFF (IN)	*22.78		*23.46		*24.30	
10 PERCENT EXCEEDS	431		396		369	
50 PERCENT EXCEEDS	46		55		76	
90 PERCENT EXCEEDS	14		14		13	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Mar. 16 to Mar. 31
b From Jan. 23 to Feb. 3, and Feb. 26 to Mar. 15
c No flow during one or more days in water years 1956, 1960, 1969, and 1971
f Site and datum then in use
g Current site and datum

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	638	e130	e95	e65	e32	e24	27	83	432	e400	e110	104
2	584	e120	e95	e70	e34	e24	28	96	430	479	e110	99
3	495	e130	e95	e75	e36	e24	29	103	458	458	e110	93
4	453	e150	e90	e75	e40	e24	28	90	497	419	e110	88
5	510	e140	e90	e70	e46	e24	30	84	615	392	e110	83
6	434	e130	e90	e70	e48	e24	30	91	698	356	e110	78
7	312	e120	e90	e65	e46	e24	31	92	682	319	e110	77
8	321	e140	e85	e65	e42	e24	29	88	649	322	e100	78
9	393	e160	e85	e60	e40	e24	27	87	625	339	e100	81
10	397	e140	e85	e60	e38	e24	27	102	624	314	e100	93
11	333	e120	e85	e50	e34	e24	29	119	597	290	e110	134
12	395	e120	e80	e55	e32	e24	28	143	605	277	e100	113
13	387	e120	e80	e55	e30	e24	26	e140	615	272	112	107
14	378	e110	e80	e55	e28	e24	27	e160	709	260	107	116
15	363	e100	e80	e50	e30	e24	25	e180	880	262	104	124
16	341	e100	e80	e48	e26	e24	30	e220	993	265	97	116
17	341	e100	e75	e46	e26	e22	28	e260	833	242	92	110
18	300	e110	e75	e44	e26	e22	24	e220	714	246	92	129
19	275	e110	e75	e42	e26	e22	28	e240	645	232	89	115
20	250	e120	e70	e38	e26	e22	32	e220	540	187	92	119
21	232	e120	e70	e34	e26	e22	42	e220	570	209	98	116
22	217	e130	e70	e30	e24	e22	49	e200	641	215	92	115
23	187	e140	e65	e26	e24	e22	55	e220	538	187	82	122
24	190	e120	e65	e26	e24	e22	58	e240	537	166	79	116
25	198	e110	e65	e26	e24	e22	70	e220	545	133	106	110
26	e180	e100	e60	e26	e24	e22	75	e220	e550	e120	99	116
27	e160	e100	e60	e26	e24	e22	89	e220	e450	e120	126	108
28	e130	e100	e60	e28	e24	e22	85	e280	e400	e120	143	101
29	e150	e95	e60	e28	---	e22	84	e360	e400	e110	124	97
30	e170	e95	e60	e30	---	e24	85	385	e380	e120	115	93
31	e150	---	e60	e30	---	e26	---	389	---	e120	109	---
TOTAL	9864	3580	2375	1468	880	720	1255	5772	17852	7951	3238	3151
MEAN	318	119	76.6	47.4	31.4	23.2	41.8	186	595	256	104	105
MAX	638	160	95	75	48	26	89	389	993	479	143	134
MIN	130	95	60	26	24	22	24	83	380	110	79	77
AC-FT	19570	7100	4710	2910	1750	1430	2490	11450	35410	15770	6420	6250

ADJUSTED TO INCLUDE DIVERSION

MEAN	345	143	91.1	65.2	46.2	40.4	60.6	204	617	286	133	127
CFSM	3.82	1.58	1.01	0.72	0.51	0.45	0.67	2.25	6.81	3.16	1.47	1.41
IN	4.40	1.76	1.16	0.83	0.53	0.51	0.75	2.60	7.60	3.64	1.70	1.57
AC-FT	21240	8510	5600	4010	2570	2480	3610	12530	36700	17590	8190	7580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1994, BY WATER YEAR (WY)#

MEAN	154	79.0	46.8	29.9	20.7	15.3	23.2	161	449	312	215	213
MAX	318	177	107	79.3	54.6	42.1	69.7	456	798	645	510	471
(WY)	1994	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	224	128	85.3	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1954	1954	1990	1969

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1947 - 1994#	
ANNUAL TOTAL	60031		58106			
ANNUAL MEAN	164		159		144	
ANNUAL MEAN	*187		*180		*163	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	850	Jun 1	993	Jun 16	1420	Aug 9 1971
LOWEST DAILY MEAN	a13	Jan 23	b22	Mar 17	c.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	13	Jan 23	22	Mar 17	.43	Jan 9 1956
MAXIMUM PEAK FLOW			1100	Jun 16	1860	Jun 21 1949
MAXIMUM PEAK STAGE			6.25	Jun 16	d3.44	Jun 21 1949
MAXIMUM PEAK STAGE					f6.38	Aug 27 1989
ANNUAL RUNOFF (AC-FT)	119100		115300		104000	
ANNUAL RUNOFF (AC-FT)	*135800		*130600		*118100	
ANNUAL RUNOFF (CFSM)	*2.07		*1.99		*1.80	
ANNUAL RUNOFF (IN)	*28.13		*27.06		*24.46	
10 PERCENT EXCEEDS	417		408		370	
50 PERCENT EXCEEDS	100		100		78	
90 PERCENT EXCEEDS	14		24		13	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a From Jan. 23 to Feb. 3, and Feb. 26 to Mar. 15
b Mar. 17 to 29
c No flow during one or more days in water years 1956, 1960, 1969, and 1971
d Site and datum then in use
f Current site and datum

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	e55	e55	e48	e28	e24	29	112	366	440	201	144
2	89	e60	e55	e46	e34	e24	29	130	350	416	192	147
3	90	e60	e55	e38	e34	e22	30	159	346	439	194	139
4	96	e60	e55	e36	e34	e22	32	164	362	411	199	133
5	90	e60	e55	e36	e34	e22	31	168	373	415	199	144
6	93	e55	e50	e36	e34	e22	30	146	379	421	193	144
7	91	e55	e50	e34	e32	e22	31	140	372	442	183	141
8	87	e55	e50	e36	e32	e22	30	168	392	405	163	158
9	89	e55	e50	e42	e30	e22	32	226	437	343	159	169
10	97	e55	e50	e42	e30	e22	31	312	558	315	159	168
11	101	e55	e50	e42	e28	e22	31	347	749	313	149	159
12	105	e55	e50	e42	e28	e22	33	383	874	299	155	168
13	99	e55	e50	e42	e28	e24	34	428	903	287	157	171
14	91	e55	e50	e42	e28	e24	35	397	860	279	145	161
15	74	e55	e50	e42	e28	e24	35	403	731	254	139	152
16	81	e55	e50	e42	e28	e24	34	382	618	234	132	151
17	77	e55	e50	e42	e28	e24	35	353	531	220	127	139
18	68	e55	e50	e40	e28	e24	36	341	516	215	123	137
19	64	e55	e50	e40	e26	e24	34	334	556	209	122	138
20	61	e55	e50	e42	e26	e24	36	337	553	200	120	641
21	55	e55	e50	e42	e26	e26	38	367	490	203	114	1220
22	e55	e55	e50	e40	e26	e26	41	379	470	243	114	926
23	e55	e55	e50	e40	e26	e26	55	427	529	223	109	675
24	e60	e55	e50	e36	e26	e26	69	509	478	238	111	532
25	e65	e55	e50	e38	e26	e26	76	611	422	284	110	448
26	e60	e55	e50	e38	e24	e26	78	621	379	279	106	363
27	e60	e55	e48	e38	e24	e26	80	539	353	247	105	320
28	e60	e55	e48	e36	e24	e26	82	487	358	228	108	287
29	e60	e55	e48	e36	---	e26	88	462	383	220	95	259
30	e55	e55	e48	e36	---	e28	96	418	415	246	107	275
31	e55	---	e48	e34	---	29	---	389	---	217	108	---
TOTAL	2373	1670	1565	1224	800	751	1351	10639	15103	9185	4398	8809
MEAN	76.5	55.7	50.5	39.5	28.6	24.2	45.0	343	503	296	142	294
MAX	105	60	55	48	34	29	96	621	903	442	201	1220
MIN	55	55	48	34	24	22	29	112	346	200	95	133
AC-FT	4710	3310	3100	2430	1590	1490	2680	21100	29960	18220	8720	17470

ADJUSTED TO INCLUDE DIVERSION

MEAN	101	73.1	65.3	54.4	41.2	34.3	49.6	351	532	326	169	311
CFSM	1.11	0.81	0.72	0.60	0.46	0.38	0.55	3.88	5.88	3.60	1.87	3.44
IN	1.28	0.90	0.83	0.69	0.47	0.44	0.61	4.48	6.56	4.15	2.16	3.84
AC-FT	6180	4350	4010	3340	2290	2110	2950	21600	31660	20030	10410	18530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1995, BY WATER YEAR (WY)#

MEAN	152	78.6	46.8	30.1	20.9	15.5	23.6	165	450	311	213	214
MAX	318	177	107	79.3	54.6	42.1	69.7	456	798	645	510	471
(WY)	1994	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	224	128	85.3	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1954	1954	1990	1969

See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1947 - 1995#	
ANNUAL TOTAL	47895		57868			
ANNUAL MEAN	131		159		144	
ANNUAL MEAN	*152		*176		*163	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	993	Jun 16	1220	Sep 21	1420	Aug 9 1971
LOWEST DAILY MEAN	a22	Mar 17	b22	Mar 3	c.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	22	Mar 17	22	Mar 3	.43	Jan 9 1956
MAXIMUM PEAK FLOW			1440	Sep 21	1860	Jun 21 1949
MAXIMUM PEAK STAGE			6.52	Sep 21	d3.44	Jun 21 1949
MAXIMUM PEAK STAGE					f6.52	Sep 21 1995
ANNUAL RUNOFF (AC-FT)	95000		114800		104200	
ANNUAL RUNOFF (AC-FT)	*109800		*127500		*118100	
ANNUAL RUNOFF (CFSM)	*1.67		*1.94		*1.80	
ANNUAL RUNOFF (IN)	*22.75		*26.41		*24.46	
10 PERCENT EXCEEDS	382		417		372	
50 PERCENT EXCEEDS	65		60		77	
90 PERCENT EXCEEDS	24		26		14	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Mar. 17 to 29
b Mar. 3 to 12
c No flow during one or more days in water years 1956, 1960, 1969, and 1971
d Site and datum then in use
f Current site and datum

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	e85	e55	e44	e34	e26	e20	51	194	90	86	70
2	221	e85	e55	e44	e34	e26	e20	51	221	85	89	63
3	210	e80	e55	e44	e34	e26	e20	51	227	88	80	62
4	195	e80	e55	e44	e34	e26	e20	60	236	86	74	59
5	175	e80	e55	e44	e34	e26	e20	83	215	84	82	56
6	162	e80	e55	e42	e34	e26	e20	98	184	85	86	53
7	148	e75	e55	e42	e32	e26	e20	108	165	80	82	51
8	147	e75	e55	e42	e32	e26	e20	118	164	72	76	54
9	175	e75	e50	e42	e32	e24	e22	123	146	74	73	49
10	182	e75	e50	e42	e32	e24	e24	113	132	69	91	50
11	170	e70	e50	e42	e32	e24	e26	125	133	68	87	48
12	174	e70	e50	e40	e32	e24	e28	139	114	67	82	52
13	150	e70	e50	e40	e32	e24	32	164	109	71	77	54
14	136	e70	e50	e40	e30	e24	31	188	107	83	72	53
15	139	e70	e50	e40	e30	e24	32	e160	104	72	70	60
16	130	e65	e50	e40	e30	e24	33	e150	102	71	72	65
17	122	e65	e50	e40	e30	e22	34	e140	104	65	76	80
18	e110	e65	e50	e38	e30	e22	36	e130	104	67	70	145
19	e110	e65	e50	e38	e30	e22	38	e130	102	67	67	133
20	e110	e65	e50	e38	e30	e22	40	e120	99	68	68	120
21	e110	e60	e48	e38	e28	e22	41	e110	98	66	65	134
22	e100	e60	e48	e38	e28	e22	40	e100	98	64	63	117
23	e100	e60	e48	e38	e28	e22	40	130	99	62	61	103
24	e100	e60	e48	e36	e28	e22	42	121	110	61	60	97
25	e100	e60	e48	e36	e28	e22	44	127	105	63	61	116
26	e90	e60	e46	e36	e28	e22	48	125	102	55	76	112
27	e90	e60	e46	e36	e28	e22	48	134	98	61	64	107
28	e90	e55	e46	e36	e26	e22	44	135	91	59	60	105
29	e90	e55	e46	e36	e26	e22	43	130	90	60	62	100
30	e90	e55	e46	e34	---	e22	44	152	92	92	65	90
31	e85	---	e44	e34	---	e22	---	168	---	78	67	---
TOTAL	4247	2050	1554	1224	886	730	970	3734	3945	2233	2264	2458
MEAN	137	68.3	50.1	39.5	30.6	23.5	32.3	120	132	72.0	73.0	81.9
MAX	236	85	55	44	34	26	48	188	236	92	91	145
MIN	85	55	44	34	26	22	20	51	90	55	60	48
AC-FT	8420	4070	3080	2430	1760	1450	1920	7410	7820	4430	4490	4880

ADJUSTED TO INCLUDE DIVERSION

MEAN	152	92.9	67.3	47.3	36.7	31.1	39.0	128	154	100	102	110
CFSM	1.68	1.03	0.74	0.52	0.41	0.34	0.43	1.42	1.70	1.10	1.12	1.21
IN	1.94	1.14	0.86	0.60	0.44	0.40	0.48	1.63	1.90	1.27	1.29	1.36
AC-FT	9370	5530	4140	2900	2110	1910	2320	7880	9160	6150	6240	6540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1996, BY WATER YEAR (WY)#

MEAN	152	78.4	46.9	30.3	21.1	15.7	23.8	164	444	307	211	212
MAX	318	177	107	79.3	54.6	42.1	69.7	456	798	645	510	471
(WY)	1994	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	132	72.0	73.0	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1996	1996	1996	1969

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1947 - 1996#	
ANNUAL TOTAL	60111		26295			
ANNUAL MEAN	165		71.8		142	
ANNUAL MEAN	*182		*88.3		*161	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	1220	Sep 21	236	Oct 1	1420	Aug 9 1971
LOWEST DAILY MEAN	a22	Mar 3	b20	Apr 1	c.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	22	Mar 3	20	Apr 1	.43	Jan 9 1956
MAXIMUM PEAK FLOW			375	Sep 20	1860	Jun 21 1949
MAXIMUM PEAK STAGE			d5.54	Jun 25	f3.44	Jun 21 1949
MAXIMUM PEAK STAGE					g6.52	Sep 21 1995
ANNUAL RUNOFF (AC-FT)	119200		52160		103200	
ANNUAL RUNOFF (AC-FT)	*132000		*64300		*116600	
ANNUAL RUNOFF (CFSM)	*2.01		*0.98		*1.78	
ANNUAL RUNOFF (IN)	*27.34		*13.31		*24.16	
10 PERCENT EXCEEDS	417		133		369	
50 PERCENT EXCEEDS	90		60		76	
90 PERCENT EXCEEDS	26		26		14	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Mar. 3 to 12
b Apr. 1 to 8
c No flow during one or more days in water years 1956, 1960, 1969, and 1971
d Jun. 25 and Sep. 20
f Site and datum then in use
g Current site and datum

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	e55	e38	e30	e26	e13	e24	70	476	301	110	512
2	73	e55	e38	e30	e26	e13	e24	79	448	277	109	417
3	75	e55	e38	e28	e26	e14	e24	85	445	259	102	353
4	71	e55	e38	e28	e26	e14	e25	98	489	238	93	314
5	69	e55	e36	e28	e26	e14	e25	109	561	235	92	287
6	66	e55	e36	e28	e26	e14	e25	126	584	227	99	258
7	65	e55	e36	e32	e26	e14	e25	158	555	209	96	240
8	64	e50	e36	e32	e24	e14	e25	157	515	200	103	228
9	74	e50	e36	e32	e24	e14	e25	163	469	188	108	236
10	69	e50	e36	e32	e24	e14	e26	171	440	177	131	237
11	66	e50	e36	e32	e24	e15	e26	177	410	200	147	218
12	e75	e50	e36	e32	e22	e15	e26	204	410	199	190	203
13	e70	e50	e36	e32	e22	e15	e26	207	403	189	254	192
14	e65	e50	e36	e32	e22	e15	e26	202	390	180	234	183
15	e65	e48	e36	e32	e22	e15	e26	188	364	181	202	173
16	e60	e48	e36	e32	e20	e15	e26	176	341	179	191	167
17	e60	e48	e36	e30	e20	e16	e27	204	322	167	167	175
18	e55	e46	e36	e28	e20	e16	e27	200	324	159	147	212
19	e55	e46	e36	e28	e19	e17	e27	195	330	151	131	204
20	e55	e44	e34	e28	e19	e17	e28	215	337	147	124	186
21	e55	e44	e34	e28	e18	e18	e28	273	305	146	142	178
22	e55	e44	e34	e28	e18	e18	e28	330	323	141	191	225
23	e55	e42	e34	e28	e18	e19	e30	361	363	136	159	281
24	e55	e42	e34	e24	e18	e19	e32	408	390	124	146	316
25	e48	e42	e34	e24	e18	e20	e34	424	385	140	144	332
26	e48	e40	e34	e24	e18	e20	e38	467	384	137	186	294
27	e50	e40	e32	e24	e17	e22	e44	479	370	131	184	270
28	e50	e40	e32	e26	e15	e22	e50	494	373	115	167	248
29	e55	e38	e32	e26	---	e22	e60	512	356	114	160	221
30	e55	e38	e30	e26	---	e22	60	523	329	114	161	212
31	e55	---	e30	e26	---	e22	---	531	---	115	398	---
TOTAL	1914	1425	1086	890	604	518	917	7986	12191	5476	4868	7572
MEAN	61.7	47.5	35.0	28.7	21.6	16.7	30.6	258	406	177	157	252
MAX	81	55	38	32	26	22	60	531	584	301	398	512
MIN	48	38	30	24	15	13	24	70	305	114	92	167
AC-FT	3800	2830	2150	1770	1200	1030	1820	15840	24180	10860	9660	15020

ADJUSTED TO INCLUDE DIVERSION

MEAN	79.1	59.1	46.3	40.2	33.4	26.6	40.0	272	416	189	170	259
CFSM	0.87	0.65	0.51	0.44	0.37	0.29	0.44	3.01	4.59	2.08	1.88	2.86
IN	1.01	0.73	0.59	0.51	0.38	0.34	0.49	3.46	5.12	2.40	2.17	3.20
AC-FT	4870	3520	2850	2470	1860	1630	2380	16730	24730	11600	10470	15430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1997, BY WATER YEAR (WY)#

MEAN	150	77.8	46.7	30.3	21.1	15.7	23.9	166	443	304	210	212
MAX	318	177	107	79.3	54.6	42.1	69.7	456	798	645	510	471
(WY)	1994	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	132	72.0	73.0	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1996	1996	1996	1969

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1947 - 1997#	
ANNUAL TOTAL	22869		45447			
ANNUAL MEAN	62.5		125		142	
ANNUAL MEAN	*77.7		*136		*161	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	236	Jun 4	584	Jun 6	1420	Aug 9 1971
LOWEST DAILY MEAN	a20	Apr 1	b13	Mar 1	c.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	20	Apr 1	14	Mar 1	.43	Jan 9 1956
MAXIMUM PEAK FLOW			665	Jun 5	1860	Jun 21 1949
MAXIMUM PEAK STAGE			5.80	Jun 5	d3.44	Jun 21 1949
MAXIMUM PEAK STAGE					f6.52	Sep 21 1995
ANNUAL RUNOFF (AC-FT)	45360		90140		102900	
ANNUAL RUNOFF (AC-FT)	*56500		*98500		*116600	
ANNUAL RUNOFF (CFSM)	*0.86		*1.50		*1.78	
ANNUAL RUNOFF (IN)	*11.70		*20.41		*24.16	
10 PERCENT EXCEEDS	117		339		368	
50 PERCENT EXCEEDS	51		55		75	
90 PERCENT EXCEEDS	26		20		14	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Apr. 1 to 8
b Mar. 1 and 2
c No flow during one or more days in water years 1956, 1960, 1969, and 1971
d Site and datum then in use
f Current site and datum

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

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	e234	e90	e60	e46	e38	32	32	52	460	560	228	208
2	219	e85	e60	e48	e38	32	29	46	526	526	220	193
3	209	e85	e60	e46	e38	33	28	45	604	526	223	206
4	199	e80	e60	e46	e38	e32	29	42	637	505	235	215
5	201	e80	e55	e46	e36	e32	27	40	641	567	221	282
6	193	e75	e55	e46	e36	32	28	40	615	541	206	265
7	184	e75	e55	e44	e36	31	27	43	588	519	194	253
8	179	e70	e50	e44	e36	31	28	49	584	523	189	238
9	165	e76	e50	e44	e36	31	28	53	593	482	183	216
10	160	e85	e47	e42	e36	31	28	50	636	447	175	202
11	157	e91	e61	e42	e36	32	28	56	667	428	166	192
12	152	e72	e55	e42	e36	32	29	60	656	396	157	186
13	149	e72	e50	e42	e36	32	29	66	641	378	153	180
14	151	e71	e50	e44	e36	31	29	77	625	358	154	169
15	147	e70	e50	e44	e36	30	30	95	703	346	154	159
16	141	e72	e50	e42	e36	30	30	108	792	337	151	154
17	137	e68	e50	e42	e36	30	30	114	819	331	150	149
18	132	e67	e48	e40	e36	e30	31	138	826	324	153	147
19	129	e67	e46	e40	e36	e30	32	152	781	349	146	154
20	121	e69	e48	e40	e36	32	34	179	757	446	178	147
21	e110	e69	e48	e40	35	33	35	189	766	430	166	143
22	122	e66	e46	e40	34	33	37	181	751	381	155	139
23	120	e64	e46	e42	e34	e34	39	183	783	345	146	136
24	114	e70	e46	e40	e34	e34	38	190	804	319	145	139
25	116	e65	e50	e42	e34	e36	40	189	766	302	136	132
26	e109	e65	e46	e42	e34	e36	40	188	765	285	129	127
27	e95	e65	e50	e40	e34	e38	46	204	759	267	123	124
28	e95	e73	e60	e40	e32	37	49	244	780	252	144	121
29	e90	e80	e70	e40	---	29	48	321	710	239	287	118
30	e100	e70	e55	e38	---	28	51	404	639	237	240	115
31	e90	---	e48	e38	---	28	---	436	---	240	220	---
TOTAL	4520	2207	1625	1312	999	992	1009	4234	20674	12186	5527	5209
MEAN	146	73.6	52.4	42.3	35.7	32.0	33.6	137	689	393	178	174
MAX	234	91	70	48	38	38	51	436	826	567	287	282
MIN	90	64	46	38	32	28	27	40	460	237	123	115
AC-FT	8970	4380	3220	2600	1980	1970	2000	8400	41010	24170	10960	10330

ADJUSTED TO INCLUDE DIVERSION

MEAN	152	79.8	58.9	48.6	42.3	38.1	39.5	143	697	403	204	180
CFSM	1.68	0.88	0.65	0.54	0.47	0.42	0.44	1.58	7.70	4.46	2.26	1.99
IN	1.94	0.98	0.75	0.62	0.49	0.49	0.49	1.82	8.59	5.14	2.60	2.22
AC-FT	9340	4750	3620	2990	2350	2340	2350	8770	41470	24810	12560	10700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2001, BY WATER YEAR (WY)#

MEAN	149	77.6	47.2	31.1	22.1	16.6	24.8	165	455	308	209	211
MAX	318	177	107	79.3	54.6	42.1	69.7	456	798	645	510	471
(WY)	1994	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	132	72.0	73.0	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1996	1996	1996	1969

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1947 - 2001#	
ANNUAL TOTAL	66756		60494			
ANNUAL MEAN	182		166		143	
ANNUAL MEAN	*191		*174		*162	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	880	Jun 8	826	Jun 18	1420	Aug 9 1971
LOWEST DAILY MEAN	27	Apr 1	a27	Apr 5	b.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	28	Mar 26	28	Apr 5	.43	Jan 9 1956
MAXIMUM PEAK FLOW			891	Jun 18	1860	Jun 21 1949
MAXIMUM PEAK STAGE			6.05	Jun 18	c3.44	Jun 21 1949
MAXIMUM PEAK STAGE					d6.52	Sep 21 1995
ANNUAL RUNOFF (AC-FT)	132400		120000		103900	
ANNUAL RUNOFF (AC-FT)	*139000		*126100		*117400	
ANNUAL RUNOFF (CFSM)	*2.12		*1.92		*1.79	
ANNUAL RUNOFF (IN)	*28.80		*26.12		*24.30	
10 PERCENT EXCEEDS	528		511		369	
50 PERCENT EXCEEDS	84		73		76	
90 PERCENT EXCEEDS	32		32		14	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Apr. 5 and Apr. 7
b No flow during one or more days in water years 1956, 1960, 1969, and 1971
c Site and datum then in use
d Current site and datum

15278000 EKLUTNA LAKE NEAR PALMER

LOCATION.--Lat 61°24′39″, long 149°07′20″, in NE¼ NE¼ sec. 18, T. 15 N., R. 2 E. (Anchorage B-6 quad), Municipality of Anchorage, Hydrologic Unit 19020402, on north shore, 0.7 mi upstream from lake outlet, 12 mi upstream from mouth of Eklutna River, and 14 mi south of Palmer.

DRAINAGE AREA.--119 mi^2.

PERIOD OF RECORD.--November 1946 to September 1962 (fragmentary after January 1955), June 1983 to current year. Fragmentary records for the period October 1962 to June 1983 available from Eklutna Hydroelectric Project.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Alaska Power Administration). Prior to June 1983, non-recording gage at lake outlet at datum of 859.8 ft above sea level.

REMARKS.--Lake outlet consists of earth and rockfill dam with uncontrolled spillway crest at an elevation of 871 ft. Prior to 1965, control structure 1400 ft upstream with spillway crest at elevation of 867.5 ft which could be flash-boarded to elevation of 871 ft. Outflow was controlled by the flash boards and sluice gates. Dead storage below elevation of 859 ft. Reservoir is used for power generation and water supply. GOES satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 877.68 ft, September 25, 1995; minimum observed, 814.2 ft, June 1, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 867.94 ft, September 8; minimum, 821.82 ft, May 15,16,19, and 20.

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	851.62	850.17	846.62	842.66	839.06	834.64	829.01	824.13	822.87	834.37	854.78	867.13
2	851.67	850.08	846.48	842.54	838.94	834.48	828.84	824.06	823.05	835.20	855.34	867.19
3	851.67	849.97	846.33	842.43	838.81	834.35	828.67	824.03	823.16	836.00	855.93	867.38
4	851.70	849.85	846.18	842.30	838.67	834.18	828.52	823.91	823.14	836.76	856.43	867.54
5	851.75	849.68	846.08	842.14	838.48	833.99	828.28	823.72	823.12	837.49	856.91	867.74
6	851.85	849.51	845.98	842.00	838.34	833.84	828.04	823.54	823.21	838.23	857.37	867.86
7	851.89	849.37	845.86	841.95	838.21	833.68	827.87	823.34	823.29	838.91	857.81	867.89
8	851.88	849.24	845.70	841.86	838.08	833.53	827.72	823.16	823.35	839.62	858.25	867.91
9	851.85	849.15	845.54	841.72	837.96	833.37	827.59	822.98	823.45	840.32	858.71	867.89
10	851.83	849.06	845.42	841.62	837.82	833.18	827.41	822.80	823.56	840.98	859.07	867.86
11	851.83	848.97	845.30	841.50	837.68	832.98	827.25	822.64	823.67	841.61	859.32	867.82
12	851.81	848.85	845.18	841.36	837.50	832.80	827.09	822.49	823.80	842.14	859.62	867.81
13	851.79	848.74	845.08	841.23	837.36	832.62	826.92	822.17	823.88	842.62	859.96	867.78
14	851.77	848.61	844.94	841.10	837.21	832.36	826.73	821.91	823.91	843.07	860.41	867.71
15	851.72	848.49	844.81	841.01	837.04	832.18	826.57	821.84	823.92	843.49	860.96	867.68
16	851.66	848.36	844.71	840.93	836.88	831.99	826.46	821.84	824.11	843.92	861.48	867.70
17	851.62	848.26	844.54	840.85	836.73	831.79	826.37	821.85	824.40	844.38	861.93	867.70
18	851.56	848.17	844.48	840.78	836.57	831.56	826.25	821.85	824.74	844.90	862.37	867.67
19	851.49	848.09	844.35	840.72	836.35	831.34	826.11	821.85	825.18	845.52	862.81	867.64
20	851.42	848.00	844.24	840.60	836.17	831.14	826.02	821.86	825.72	846.43	863.33	867.63
21	851.35	847.90	844.09	840.48	835.98	830.97	825.86	821.87	826.29	847.44	863.77	867.60
22	851.27	847.79	843.96	840.33	835.82	830.80	825.63	821.91	826.81	848.35	864.08	867.58
23	851.18	847.66	843.89	840.21	835.67	830.61	825.50	821.92	827.39	849.18	864.29	867.61
24	851.07	847.51	843.74	840.08	835.51	830.45	825.36	821.95	828.13	849.91	864.51	867.64
25	850.98	847.38	843.60	839.93	835.29	830.25	825.18	822.00	828.97	850.59	864.73	867.59
26	850.92	847.26	843.43	839.79	835.10	830.02	824.95	822.03	829.75	851.24	864.90	867.52
27	850.83	847.11	843.28	839.67	834.97	829.81	824.74	822.05	830.59	851.90	865.04	867.45
28	850.71	847.00	843.11	839.58	834.80	829.58	824.54	822.09	831.59	852.48	865.28	867.37
29	850.57	846.86	843.00	839.43	---	829.41	824.35	822.20	832.58	853.05	866.12	867.29
30	850.45	846.73	842.96	839.29	---	829.29	824.19	822.42	833.52	853.64	866.72	867.19
31	850.30	---	842.82	839.16	---	829.15	---	822.65	---	854.26	867.02	---
MEAN	851.42	848.46	844.70	840.94	837.04	831.95	826.60	822.55	825.71	844.45	861.27	867.61
MAX	851.89	850.17	846.62	842.66	839.06	834.64	829.01	824.13	833.52	854.26	867.02	867.91
MIN	850.30	846.73	842.82	839.16	834.80	829.15	824.19	821.84	822.87	834.37	854.78	867.13

15281000 KNIK RIVER NEAR PALMER

LOCATION.--Lat 61°30′18″, long 149°01′50″, in NE¼ SE¼ sec. 2, T.16 N., R.2 E. (Anchorage C-6 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020402, near the right bank on downstream side of bridge on Old Glenn Highway, 7 mi south of Palmer, 7 mi upstream from Alaska Railroad bridge, 9 mi downstream from Friday Creek, and about 17 mi downstream from Knik Glacier.

DRAINAGE AREA.--1,180 mi^2, approximately.

PERIOD OF RECORD.--October 1959 to January 1988, annual maximum, water year 1989, October 1991 to September 1992, and April to September, 2001.

REVISED RECORDS.--WRD-AK-77-1: 1974-75(M).

GAGE.--Water-stage recorder and crest stage gage. Datum of gage is 27.51 ft above National Geodetic Vertical Datum of 1929 (surveys show a correction of -2.69 ft needed after earthquake of Mar. 27, 1964. Correction used beginning in 1985) Prior to June 27, 1960, nonrecording gage, and June 27, 1960 to Apr. 25,1974, water-stage recorder at old bridge 100 ft upstream at original 1929 datum. Apr. 26, 1974 to Apr. 18, 1976, recording gage at site 0.4 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flood peaks due to outbreak of glacier-dammed Lake George, 1948-62, 1964, 1965, published in WSP 1936. Streamflow augmented by glaciers, which cover 54 percent of the basin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1948, 359,000 ft^3/s, July 18, 1958, gage height, 25.30 ft, at site in use beginning 1959, from outbreak of glacier-dammed Lake George.

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	---	---	---	---	---	---	e1200	1950	7390	27400	22600	22200
2	---	---	---	---	---	---	e1200	1910	8020	26600	23300	18800
3	---	---	---	---	---	---	e1200	1880	9080	26900	24700	17800
4	---	---	---	---	---	---	e1200	1790	10100	25900	23100	17900
5	---	---	---	---	---	---	1100	1650	10000	24200	22200	19200
6	---	---	---	---	---	---	1040	1540	9860	22200	21600	17400
7	---	---	---	---	---	---	1090	1530	9340	20900	21700	14600
8	---	---	---	---	---	---	1070	1530	9520	21100	22400	12600
9	---	---	---	---	---	---	1050	1610	11900	20500	22600	11400
10	---	---	---	---	---	---	1080	1720	12000	20900	21400	10700
11	---	---	---	---	---	---	1110	1790	12600	22100	20200	10300
12	---	---	---	---	---	---	1330	1850	12200	22000	20200	10100
13	---	---	---	---	---	---	1350	1920	12600	20200	21700	10900
14	---	---	---	---	---	---	1300	2050	11800	18100	25900	10900
15	---	---	---	---	---	---	1230	2310	12500	17800	28700	10600
16	---	---	---	---	---	---	1220	2820	14600	17900	31400	10000
17	---	---	---	---	---	---	1240	3150	17100	18300	29500	9820
18	---	---	---	---	---	---	1230	3220	20100	19300	27300	10200
19	---	---	---	---	---	---	1240	3280	21300	22100	25500	10300
20	---	---	---	---	---	---	1280	3630	22200	27100	26500	10400
21	---	---	---	---	---	---	1330	4290	22900	29900	28400	10600
22	---	---	---	---	---	---	1380	4450	23900	33000	28900	9860
23	---	---	---	---	---	---	1420	4320	25200	34200	26700	9070
24	---	---	---	---	---	---	1440	4340	27200	31900	24100	9180
25	---	---	---	---	---	---	1480	4520	28300	29300	21000	8820
26	---	---	---	---	---	---	1570	4590	28800	28100	19500	8070
27	---	---	---	---	---	---	1610	4380	30000	27400	18700	7410
28	---	---	---	---	---	---	1700	4660	30600	25800	19500	6640
29	---	---	---	---	---	---	1830	5620	31700	23900	27100	6320
30	---	---	---	---	---	---	1890	6720	31100	24000	29700	5970
31	---	---	---	---	---	---	---	7220	---	23200	27700	---
TOTAL	---	---	---	---	---	---	39410	98240	533910	752200	753800	348060
MEAN	---	---	---	---	---	---	1314	3169	17800	24260	24320	11600
MAX	---	---	---	---	---	---	1890	7220	31700	34200	31400	22200
MIN	---	---	---	---	---	---	1040	1530	7390	17800	18700	5970
AC-FT	---	---	---	---	---	---	78170	194900	1059000	1492000	1495000	690400
CFSM	---	---	---	---	---	---	1.11	2.69	15.1	20.6	20.6	9.83
IN.	---	---	---	---	---	---	1.24	3.10	16.83	23.71	23.76	10.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2001, BY WATER YEAR (WY)#

MEAN	4346	1773	956	865	727	644	911	3683	12670	23490	21370	11340
MAX	9419	4844	1932	3781	2464	1314	1534	7347	19960	37450	28300	16960
(WY)	1970	1965	1977	1981	1977	1977	1983	1981	1969	1960	1979	1974
MIN	1782	637	500	460	338	260	348	1039	2598	17440	15260	6594
(WY)	1982	1969	1974	1976	1962	1962	1972	1965	1965	1970	1969	1992

\# See Period of Record; partial years used in monthly statistics
e Estimated

15281000 KNIK RIVER NEAR PALMER--Continued

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1960 - 2001#	
ANNUAL TOTAL				
ANNUAL MEAN			6981	
HIGHEST ANNUAL MEAN			13800	2001
LOWEST ANNUAL MEAN			2286	1988
HIGHEST DAILY MEAN	34200	Jul 23	341000	Jul 26 1961
LOWEST DAILY MEAN			a260	Mar 1 1962
ANNUAL SEVEN-DAY MINIMUM			260	Mar 1 1962
MAXIMUM PEAK FLOW	35400	Jul 23	bc355000	Jul 26 1961
MAXIMUM PEAK STAGE	12.21	Jul 23	24.35	Jul 17 1960
ANNUAL RUNOFF (AC-FT)			5057000	
ANNUAL RUNOFF (CFSM)			5.92	
ANNUAL RUNOFF (INCHES)			80.38	
10 PERCENT EXCEEDS			21100	
50 PERCENT EXCEEDS			2000	
90 PERCENT EXCEEDS			500	

\# See Period of Record; partial years used in monthly statistics
a Mar. 1-31, 1962
b Site then in use, caused by release of stored water (Lake George) behind Knik Glacier
c Gage height, 24.3 ft

15281500 CAMP CREEK NEAR SHEEP MOUNTAIN LODGE

LOCATION.--Lat 61°50′20″, long 147°24′31", in SE¼ SE¼ NW¼ sec. 11, T. 20 N., R. 11 E. (Anchorage D-2 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020402, on left bank 5 ft downstream from culvert on old alignment (1/2 mile upstream from new alignment) Glenn Highway, and 3.5 mi northeast of Sheep Mountain Lodge.

DRAINAGE AREA.--1.09 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1968-69, 1971, 1989-95. October 1995 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,950 ft above sea level, from topographic map. Prior to 1971 crest-stage gage at site above culvert at different datum, June 2, 1989 to September 30, 1995, crest-stage gage at same site, and datum.

REMARKS.--Records 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	e1.9	e.00	e.00	e.00	e.00	e.00	e.00	e.00	5.1	5.1	.94	e.80
2	e1.8	e.00	e.00	e.00	e.00	e.00	e.00	e.00	6.7	4.8	e.92	e1.0
3	e1.7	e.00	e.00	e.00	e.00	e.00	e.00	e.00	7.6	4.5	e.90	e1.2
4	e1.6	e.00	e.00	e.00	e.00	e.00	e.00	e.00	8.7	4.3	e.90	e1.8
5	e1.5	e.00	e.00	e.00	e.00	e.00	e.00	e.00	9.5	4.3	e.90	e2.0
6	e1.3	e.00	e.00	e.00	e.00	e.00	e.00	e.00	9.0	4.9	e.90	e1.8
7	e1.0	e.00	e.00	e.00	e.00	e.00	e.00	e.00	9.9	5.8	e.88	e1.6
8	e.90	e.00	e.00	e.00	e.00	e.00	e.00	e.00	10	5.7	e.88	e.90
9	e.80	e.00	e.00	e.00	e.00	e.00	e.00	e.00	14	4.9	e.88	e.88
10	e.70	e.00	e.00	e.00	e.00	e.00	e.00	e.00	11	4.2	e.86	e.86
11	e.60	e.00	e.00	e.00	e.00	e.00	e.00	e.00	12	3.8	e.86	e.84
12	e.50	e.00	e.00	e.00	e.00	e.00	e.00	e.00	9.9	3.5	e.86	e.84
13	e.40	e.00	e.00	e.00	e.00	e.00	e.00	e.10	10	3.3	e.86	e.82
14	e.30	e.00	e.00	e.00	e.00	e.00	e.00	e.20	10	3.0	e.86	e.82
15	e.20	e.00	e.00	e.00	e.00	e.00	e.00	e.30	10	e2.8	e.86	e.82
16	e.20	e.00	e.00	e.00	e.00	e.00	e.00	e.40	9.6	e2.6	e.84	e.82
17	e.20	e.00	e.00	e.00	e.00	e.00	e.00	e.60	9.7	e2.5	e.84	e.80
18	e.20	e.00	e.00	e.00	e.00	e.00	e.00	e.80	8.2	2.3	e.84	e.80
19	e.10	e.00	e.00	e.00	e.00	e.00	e.00	e1.0	7.3	2.2	e.84	e.80
20	e.10	e.00	e.00	e.00	e.00	e.00	e.00	e1.2	8.6	1.9	e.84	e.80
21	e.10	e.00	e.00	e.00	e.00	e.00	e.00	e1.4	6.9	1.9	e.84	e.78
22	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e1.6	9.0	1.8	e.84	e.78
23	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e1.8	8.2	1.7	e.82	e.78
24	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e2.0	7.7	1.6	e.82	e.78
25	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e2.2	7.7	1.5	e.82	e.78
26	e.00	e.00	e.00	e.00	e.00	e.00	e.00	2.3	7.1	1.4	e.82	e.78
27	e.00	e.00	e.00	e.00	e.00	e.00	e.00	2.4	6.5	1.3	e.80	e.78
28	e.00	e.00	e.00	e.00	e.00	e.00	e.00	2.6	6.1	1.2	e.80	e.76
29	e.00	e.00	e.00	e.00	---	e.00	e.00	3.2	5.9	1.1	e.80	e.76
30	e.00	e.00	e.00	e.00	---	e.00	e.00	3.7	5.6	1.1	e.80	e.76
31	e.00	---	e.00	e.00	---	e.00	---	4.3	---	1.0	e.80	---
TOTAL	16.10	0.00	0.00	0.00	0.00	0.00	0.00	32.10	257.5	92.0	26.42	28.74
MEAN	.52	.000	.000	.000	.000	.000	.000	1.04	8.58	2.97	.85	.96
MAX	1.9	.00	.00	.00	.00	.00	.00	4.3	14	5.8	.94	2.0
MIN	.00	.00	.00	.00	.00	.00	.00	.00	5.1	1.0	.80	.76
AC-FT	32	.00	.00	.00	.00	.00	.00	64	511	182	52	57
CFSM	.48	.00	.00	.00	.00	.00	.00	.95	7.87	2.72	.78	.88
IN.	.55	.00	.00	.00	.00	.00	.00	1.10	8.79	3.14	.90	.98

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

MEAN	.55	.27	.10	.010	.000	.000	.019	.88	4.50	1.94	1.51	1.26
MAX	1.12	.65	.39	.042	.000	.000	.058	1.55	8.58	2.97	3.58	2.63
(WY)	1998	1998	1998	1999	1996	1996	1996	1998	2001	2001	1997	2000
MIN	.17	.000	.000	.000	.000	.000	.000	.25	.56	.42	.40	.45
(WY)	1997	2001	2001	1996	1996	1996	1999	1999	1996	1996	1996	1998

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001#	
ANNUAL TOTAL	511.90		452.86			
ANNUAL MEAN	1.40		1.24		.92	
HIGHEST ANNUAL MEAN					1.46	2000
LOWEST ANNUAL MEAN					.26	1996
HIGHEST DAILY MEAN	12	Jun 6	14	Jun 9	17	Jun 7 1997
LOWEST DAILY MEAN	a.00	Jan 1	b.00	Oct 22	c.00	Dec 6 1995
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 22	.00	Dec 6 1995
MAXIMUM PEAK FLOW			19	Jun 9	d46	Jul 21 1992
MAXIMUM PEAK STAGE			14.77	Jun 9	15.49	Jun 28 2000
ANNUAL RUNOFF (AC-FT)	1020		898		666	
ANNUAL RUNOFF (CFSM)	1.28		1.14		.84	
ANNUAL RUNOFF (INCHES)	17.47		15.46		11.46	
10 PERCENT EXCEEDS	3.9		4.6		2.5	
50 PERCENT EXCEEDS	.00		.00		.25	
90 PERCENT EXCEEDS	.00		.00		.00	

\# See Period of Record
a Jan. 1 to May 15 and Oct. 22 to Dec. 31
b Oct. 22 to May 12
c No flow most days during winter
d From rating curve extended above 2 ft^3/s
e Estimated

15281500 CAMP CREEK NEAR SHEEP MOUNTAIN LODGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1996 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1996 to current year.

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

REMARKS.--No record from October 22 to May 12 due to no flow conditions, and August 3 to September 3 due to equipment problems. 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 September 28. No variation was found within the cross section.No variation was found between mean stream temperature and temperature at the sensor. Large stream icing forms near the gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 9.5 °C, on several days in June and July 1997 and June 29-30, July 1, 1998; minimum, 0.0 °C, on many days during fall, winter, and spring breakup periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 7.5 °C, July 26, but may have been higher during a period of missing record; minimum, 0.0 °C, on many days during fall, winter, and spring breakup periods.

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

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC-ATION, CROSS SECTION (FT FM R BK) (72103)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)
SEP									
28...	1202	5.20	1.0	13.90	.77	2.5	5.0	10	8010
28...	1204	5.20	2.0	13.90	.77	2.5	5.0	10	8010
28...	1206	5.20	3.0	13.90	.77	2.5	5.0	10	8010
28...	1208	5.20	4.0	13.90	.77	2.5	5.0	10	8010
28...	1210	5.20	5.0	13.90	.77	2.5	5.0	10	8010

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

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

15281500 CAMP CREEK NEAR SHEEP MOUNTAIN LODGE--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
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	.0	.0	.0
14	---	---	---	---	---	---	---	---	---	.0	.0	.0
15	---	---	---	---	---	---	---	---	---	.0	.0	.0
16	---	---	---	---	---	---	---	---	---	.0	.0	.0
17	---	---	---	---	---	---	---	---	---	.0	.0	.0
18	---	---	---	---	---	---	---	---	---	.0	.0	.0
19	---	---	---	---	---	---	---	---	---	.5	.0	.0
20	---	---	---	---	---	---	---	---	---	.5	.0	.0
21	---	---	---	---	---	---	---	---	---	.0	.0	.0
22	---	---	---	---	---	---	---	---	---	.5	.0	.0
23	---	---	---	---	---	---	---	---	---	.5	.0	.0
24	---	---	---	---	---	---	---	---	---	.5	.0	.0
25	---	---	---	---	---	---	---	---	---	.5	.0	.0
26	---	---	---	---	---	---	---	---	---	.5	.0	.5
27	---	---	---	---	---	---	---	---	---	.5	.0	.0
28	---	---	---	---	---	---	---	---	---	.5	.0	.5
29	---	---	---	---	---	---	---	---	---	.5	.0	.5
30	---	---	---	---	---	---	---	---	---	1.0	.0	.5
31	---	---	---	---	---	---	---	---	---	1.0	.0	.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1.0	.0	.5	5.5	3.0	4.0	6.0	5.0	5.5	---	---	---
2	1.5	.0	.5	6.5	3.0	4.5	---	4.5	---	---	---	---
3	1.5	.0	.5	5.5	3.0	4.5	---	---	---	---	---	---
4	1.5	.5	.5	4.5	3.5	4.0	---	---	---	4.5	---	---
5	1.5	.5	.5	4.0	3.5	3.5	---	---	---	4.0	3.0	3.0
6	1.0	.5	1.0	3.5	2.5	3.0	---	---	---	4.5	2.5	3.0
7	1.5	.5	1.0	3.0	2.5	2.5	---	---	---	3.5	2.5	3.0
8	2.0	.5	1.0	4.5	2.0	3.0	---	---	---	4.0	2.0	3.0
9	2.5	.5	1.0	5.5	2.0	3.5	---	---	---	4.0	2.0	2.5
10	2.0	.5	1.0	5.5	2.0	3.5	---	---	---	4.0	2.0	2.5
11	2.0	.5	---	4.0	3.0	3.5	---	---	---	3.5	1.5	2.5
12	2.5	.5	1.0	4.5	3.0	3.5	---	---	---	4.0	2.0	3.0
13	2.5	1.0	1.5	5.0	3.0	3.5	---	---	---	4.0	2.0	3.0
14	2.0	1.0	1.5	5.5	3.0	4.0	---	---	---	4.0	2.0	3.0
15	2.5	1.0	1.5	6.0	3.5	4.5	---	---	---	3.5	2.0	2.5
16	2.5	1.0	1.5	6.5	3.5	5.0	---	---	---	4.0	2.0	2.5
17	3.0	1.0	2.0	6.5	4.0	5.0	---	---	---	4.5	2.5	3.5
18	3.0	1.0	2.0	7.0	4.0	5.5	---	---	---	4.5	3.5	3.5
19	---	1.0	---	6.0	4.5	5.5	---	---	---	4.5	3.5	3.5
20	3.0	---	---	6.5	4.5	5.5	---	---	---	4.5	3.0	3.5
21	4.0	1.5	2.5	6.5	5.0	5.5	---	---	---	4.0	2.5	3.0
22	4.0	2.0	2.5	7.0	4.5	5.5	---	---	---	3.5	2.5	3.0
23	4.5	2.0	3.0	6.5	5.0	5.5	---	---	---	3.0	1.5	2.5
24	5.0	2.0	3.5	7.0	5.0	6.0	---	---	---	3.0	1.5	2.5
25	5.0	2.5	3.5	7.0	5.0	6.0	---	---	---	2.5	1.5	2.0
26	5.0	2.5	3.5	7.5	5.0	6.0	---	---	---	3.0	1.5	2.0
27	5.0	2.5	3.5	7.0	5.0	6.0	---	---	---	2.5	1.0	1.5
28	5.5	2.5	4.0	6.0	5.0	5.5	---	---	---	2.5	1.5	2.0
29	6.0	3.0	4.0	6.5	5.0	5.5	---	---	---	2.5	1.0	2.0
30	6.0	3.0	4.0	6.0	5.0	5.5	---	---	---	2.5	1.0	2.0
31	---	---	---	6.0	5.0	5.5	---	---	---	---	---	---
MONTH	---	---	---	7.5	2.0	4.6	---	---	---	---	---	---

15283700 MOOSE CREEK NEAR PALMER

LOCATION.--Lat 61°41′00″, long 149°02′36″, in NE¼ NE¼ sec. 2, T. 18 N., R. 2 E. (Anchorage C-6 quad), Hydrologic Unit 19020402, on right bank 0.2 mi upstream from Glenn Highway bridge over Moose Creek, 0.8 mi upstream from mouth and 6.5 mi north of Palmer.

DRAINAGE AREA.--47.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1998 to September 2001 (discontinued).

REVISED RECORDS.--WDR AK-00-1: 1999, drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 450 ft above sea level, from topographic map.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 18,000 ft^3/s, August 10, 1971 (at site 0.3 mi upstream from Buffalo Creek mine and 5 mi upstream from present gage site), gage height not determined.

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	219	e65	e40	e24	e23	e20	e18	64	171	230	231	84
2	192	e65	e40	e24	e22	e20	e19	55	239	211	217	83
3	176	e65	e40	e24	e22	e20	e19	50	299	212	204	98
4	164	e65	e40	e24	e22	e20	e19	45	308	211	218	92
5	160	e60	e38	e24	e22	e20	e20	42	289	276	189	137
6	158	e60	e38	e24	e22	e20	e20	42	269	281	171	161
7	143	e60	e38	e24	e21	e20	e20	46	253	242	158	126
8	132	e60	e38	e24	e21	e20	e20	56	240	204	155	113
9	123	e60	e36	e24	e21	e20	e20	59	278	188	164	104
10	115	e55	e36	e24	e21	e20	e21	58	322	172	154	98
11	109	e55	e34	e24	e21	e20	e21	59	403	162	142	94
12	103	e55	e34	e24	e21	e20	e21	65	415	148	137	91
13	100	e55	e34	e24	e21	e20	e21	77	367	147	134	89
14	97	e55	e32	e24	e21	e20	e21	85	396	149	144	86
15	93	e50	e32	e24	e21	e20	e22	87	465	142	167	82
16	90	e50	e32	e26	e20	e20	24	87	514	136	158	78
17	87	e50	e32	e25	e20	e20	24	83	564	135	145	76
18	85	e50	e30	e26	e20	e20	25	86	542	132	152	76
19	83	e48	e30	e26	e20	e20	27	87	503	137	148	79
20	80	e50	e30	e25	e20	e20	30	91	477	177	134	78
21	80	e48	e30	e25	e20	e20	34	89	460	172	123	75
22	82	e46	e29	e25	e20	e20	38	86	429	158	121	72
23	80	e46	e28	e24	e20	e19	42	85	415	147	116	70
24	78	e46	e27	e24	e20	e19	45	80	408	147	143	65
25	76	e44	e27	e24	e20	e19	49	77	371	150	131	65
26	72	e44	e26	e24	e20	e18	55	78	368	165	120	64
27	e70	e44	e26	e24	e20	e18	59	83	354	204	114	62
28	e65	e42	e25	e23	e20	e18	64	110	345	219	103	61
29	e65	e42	e26	e23	---	e18	66	143	308	276	98	59
30	e65	e42	e26	e23	---	e18	68	152	260	258	92	58
31	e65	---	e24	e23	---	e18	---	168	---	294	89	---
TOTAL	3307	1577	998	750	582	605	952	2475	11032	5882	4572	2576
MEAN	107	52.6	32.2	24.2	20.8	19.5	31.7	79.8	368	190	147	85.9
MAX	219	65	40	26	23	20	68	168	564	294	231	161
MIN	65	42	24	23	20	18	18	42	171	132	89	58
AC-FT	6560	3130	1980	1490	1150	1200	1890	4910	21880	11670	9070	5110
CFSM	2.26	1.11	.68	.51	.44	.41	.67	1.69	7.77	4.01	3.12	1.82
IN.	2.60	1.24	.78	.59	.46	.48	.75	1.95	8.68	4.63	3.60	2.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)#

MEAN	98.8	48.6	27.6	21.7	18.5	16.7	28.8	78.7	339	212	182	139
MAX	107	55.4	32.2	24.2	20.8	19.5	34.4	89.9	385	327	210	236
(WY)	2001	2000	2001	2001	2001	2001	2000	2000	2000	2000	1999	2000
MIN	87.4	37.8	24.8	19.1	14.6	14.1	20.2	66.5	265	152	147	85.9
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998	2001	2001

\# See period of record, partial years used in monthly statistics
e Estimated

15283700 MOOSE CREEK NEAR PALMER--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001#	
ANNUAL TOTAL	46144		35308			
ANNUAL MEAN	126		96.7		103	
HIGHEST ANNUAL MEAN					125	2000
LOWEST ANNUAL MEAN					87.0	1999
HIGHEST DAILY MEAN	754	Sep 22	564	Jun 17	754	Sep 22 2000
LOWEST DAILY MEAN	a15	Mar 26	b18	Mar 26	c13	Feb 3 1999
ANNUAL SEVEN-DAY MINIMUM	15	Mar 24	18	Mar 26	14	Apr 8 1999
MAXIMUM PEAK FLOW			658	Jun 17	1080	Sep 22 2000
MAXIMUM PEAK STAGE			14.70	Jun 17	15.32	Sep 22 2000
MAXIMUM PEAK STAGE			d16.36	Dec 16	d16.36	Dec 16 2000
ANNUAL RUNOFF (AC-FT)	91530		70030		74680	
ANNUAL RUNOFF (CFSM)	2.67		2.05		2.18	
ANNUAL RUNOFF (INCHES)	36.29		27.77		29.61	
10 PERCENT EXCEEDS	367		230		248	
50 PERCENT EXCEEDS	66		60		72	
90 PERCENT EXCEEDS	18		20		18	

\# See period of record, partial years used in monthly statistics
a Mar.26 to Mar.30
b Mar.26 to Apr.1
c Feb.3 to Feb.4 and Apr.12 to Apr.14, 1999
d Backwater from ice

15283700 MOOSE CREEK NEAR PALMER--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-49, 1951-52, 1956, 1998 to current year.

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

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLAT-INUM COBALT UNITS) (00080)	SAM-PLING METHOD, CODES (82398)	STREAM WIDTH (FT) (00004)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
MAR 2001													
27...	1330	9	9	18	<1	10	24.0	713	13.1	96	8.1	144	.1
JUN													
19...	1310	9	9	465	--	10	--	737	11.6	99	7.8	57	7.1

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/S AS CACO3) (39086)	ANC WATER UNFLTRD FET FIELD (MG/L AS CACO3) (00410)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG.C DIS-SOLVED (MG/L) (70300)
MAR 2001													
27...	60	19.4	2.83	.51	5.3	48	49	58	4.5	<.2	6.5	12.5	90
JUN													
19...	24	8.10	.946	.31	1.3	21	22	27	.6	<.2	3.8	4.7	43

DATE	SOLDS, SUM OF CON-STITU-ENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMO-NIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMO-NIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMO-NIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, PARTI-CULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CAR-BON, INORG + ORGANIC PAR-TIC. TOTAL (MG/L AS C) (00694)	CAR-BON, INOR-GANIC, PAR-TIC. TOTAL (MG/L AS C) (00688)	CAR-BON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
MAR 2001													
27...	82	.006	E.06	<.08	.400	<.001	<.022	<.006	<.007	E.002	<.1	<.1	.64
JUN													
19...	34	.002	<.10	<.08	.099	<.001	<.022	<.006	<.007	.013	<.1	--	.89

DATE	CAR-BON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	ALUMI-NUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BAR-IUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	CAD-MIUM WATER UNFL-TRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COP-PER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	CYA-NIDE TOTAL (MG/L AS CN) (00720)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
MAR 2001													
27...	<.1	<28	<2	32.2	<2.50	<.11	<1	<1.8	<.01	M	E10	<1	<3.2
JUN													
19...	--	361	E2	23.3	<2.50	<.10	<1	1.9	<.01	M	480	<1	<3.0

15283700 MOOSE CREEK NEAR PALMER--Continued

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	PURPOSE SITE VISIT, (CODE) (50280)	SAMPLER TYPE (CODE) (84164)
MAR 2001										
27...	<3	<.14	<2	<2.6	<.43	<31	<1	--	1099	3045
JUN										
19...	14	<.01	<2	<3.0	<.40	<31	16	20	1099	3045

15284000 MATANUSKA RIVER NEAR PALMER

LOCATION.--Lat 61°36′33″, long 149°04′15″, in SE¼ NW¼ sec. 34, T. 18 N., R. 2 E. (Anchorage C-6 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020402, on downstream left bank of old Glenn Highway bike path bridge, and 1 mi east of Palmer.

DRAINAGE AREA.--2,070 mi^2, approximately.

PERIOD OF RECORD.--April 1949 to September 1973, May 1985 to September 1986, October 1991 to September 1992, and May 2000 to current year. Annual maximum, water year 1974 and 1995.

GAGE.--Water-stage recorder. Datum of gage is 170.92 ft above National Geodetic Vertical Datum of 1929 (Alaska Railroad Commission benchmark, prior to Mar. 27,1964 earthquake). Prior to Nov. 2, 1950, non-recording gage at bridge 20 ft upstream at same datum. Nov.2,1950 to Apr.30,1952, non-recording gage at current site and same datum. May 1, 1952 to Sep.30, 1973, July 19 to Oct. 20, 1987, and Oct. 1, 1991 to Sep.30, 1992, water-stage recorder at site 100 ft downstream at same datum.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 21,000 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jun 18	0945	a32,700	a11.22	Jul 23	0100	a22,200	a10.82
Jun 29	0645	*a34,300	a11.24				

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	5780	e1600	1090	e900	e650	540	616	942	4160	22400	12800	5070
2	5180	e1600	899	899	e650	553	576	794	6080	19300	12000	5530
3	4840	e1600	829	860	e650	610	566	750	7280	18800	11800	8690
4	4810	e1600	985	1020	e650	543	558	687	7940	16700	11100	8980
5	4840	e1600	e1100	889	e650	540	536	643	7850	15200	11600	7750
6	4740	1730	e1000	853	e650	579	511	647	7280	14200	10300	6830
7	4450	1590	e1000	e850	626	556	512	660	7800	13700	9730	5690
8	4190	1710	e1000	e850	690	543	526	746	6360	14000	9790	5120
9	3890	1930	e1000	e800	637	546	507	833	6140	12000	9590	4680
10	3630	1940	e1000	e800	697	579	508	819	7220	11000	9320	4330
11	3500	1860	e1000	e800	631	556	633	830	10600	10200	8620	4080
12	3360	1540	e1000	777	606	581	581	852	11300	9540	9630	3950
13	3250	1410	e1000	810	564	573	621	927	10300	8700	11300	3820
14	3110	1460	962	979	631	555	624	1080	11300	8460	12300	3620
15	2950	1400	989	1070	625	527	619	1190	13600	8520	12200	3420
16	2810	1430	e950	885	716	546	642	1240	15900	9220	13500	3290
17	2680	1540	e950	779	720	e550	663	1250	20100	10400	13800	3230
18	2480	1510	e950	821	654	e550	689	1270	24700	11400	14000	3290
19	2370	1510	e950	837	635	e550	780	1340	22600	12400	11400	3570
20	2170	1460	e950	716	622	e550	e820	1540	21200	14800	9840	3740
21	2060	1410	e950	645	612	e550	e870	1680	18100	16000	9420	3680
22	2000	1310	e950	680	571	560	e820	1780	13500	16700	11100	3430
23	2070	1170	e950	688	555	575	e790	1760	13500	18900	10100	3200
24	2020	e1200	e950	678	653	664	797	1790	18500	18000	9290	2960
25	2010	e1200	e950	687	531	667	885	1750	19700	17000	8500	2800
26	2020	e1200	e950	661	571	744	933	1740	21600	15200	7970	2610
27	1860	e1100	e900	690	593	730	945	1810	28300	13700	7770	2490
28	e1700	e1100	e900	638	579	642	975	1960	30700	12600	7480	2360
29	e1700	e1100	e900	e650	---	567	937	2790	31300	10600	7400	2270
30	e1700	1070	e900	e650	---	638	936	3530	28500	10500	6550	2190
31	e1700	---	e900	e650	---	605	---	4860	---	12100	5790	---
TOTAL	95870	43880	29804	24512	17619	18069	20976	44490	453410	422240	315990	126670
MEAN	3093	1463	961	791	629	583	699	1435	15110	13620	10190	4222
MAX	5780	1940	1100	1070	720	744	975	4860	31300	22400	14000	8980
MIN	1700	1070	829	638	531	527	507	643	4160	8460	5790	2190
AC-FT	190200	87040	59120	48620	34950	35840	41610	88250	899300	837500	626800	251200
CFSM	1.49	.71	.46	.38	.30	.28	.34	.69	7.30	6.58	4.92	2.04
IN.	1.72	.79	.54	.44	.32	.32	.38	.80	8.15	7.59	5.68	2.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2001, BY WATER YEAR (WY)#

MEAN	1939	985	728	621	519	473	637	2657	10210	13170	9945	4916
MAX	3093	1793	1024	821	629	583	985	6019	17250	18750	15730	8966
(WY)	2001	1972	1972	1961	2001	2001	1964	1960	1964	2000	1971	1951
MIN	1166	568	440	349	381	360	465	1007	5415	9206	4992	2123
(WY)	1992	1959	1969	1959	1971	1971	1972	1966	1965	1973	1969	1969

a Peak discharge adjusted to exclude surge; peak gage-height not adjusted to exclude surge
e Estimated

15284000 MATANUSKA RIVER NEAR PALMER--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1949 - 2001#	
ANNUAL TOTAL			1613530			
ANNUAL MEAN			4421		3835	
HIGHEST ANNUAL MEAN					4815	1957
LOWEST ANNUAL MEAN					2562	1969
HIGHEST DAILY MEAN	a31300	Jul 1	31300	Jun 29	40700	Aug 10 1971
LOWEST DAILY MEAN	808	Apr 20	507	Apr 9	234	Apr 25 1956
ANNUAL SEVEN-DAY MINIMUM	914	Dec 25	523	Apr 4	304	Apr 20 1956
MAXIMUM PEAK FLOW			b34300	Jun 29	c82100	Aug 10 1971
MAXIMUM PEAK STAGE			b11.24	Jun 29	d13.60	Aug 10 1971
INSTANTANEOUS LOW FLOW			415	Mar 4		
ANNUAL RUNOFF (AC-FT)			3200000		2778000	
ANNUAL RUNOFF (CFSM)			2.14		1.85	
ANNUAL RUNOFF (INCHES)			29.00		25.17	
10 PERCENT EXCEEDS	19800		12700		12200	
50 PERCENT EXCEEDS	4900		1430		1310	
90 PERCENT EXCEEDS	998		579		480	

\# See Period of Record; partial years used in monthly statistics
a Jul. 1 and Jul. 5
b Peak discharge adjusted to exclude surge; peak gage-height not adjusted to exclude surge.
c From rating curve extended above 34,000 ft^3/s on basis of velocity-area study, from break-out of natural reservoir on Granite Creek tributary
d Site then in use

15290000 LITTLE SUSITNA RIVER NEAR PALMER

LOCATION.--Lat 61°42′37″, long 149°13′47″, in SE¼ NW¼ sec. 26, T. 19 N., R. 1 E. (Anchorage C-6 NW quad), Matanuska-Susitna Borough, Hydrologic Unit 19020505, on right bank 100 ft downstream from highway bridge on Wasilla-Fishhook Road, 1.5 mi north of road junction, 1.8 mi downstream from unnamed tributary, and 8 mi northwest of Palmer. Prior to October 1, 1991 at site 60 ft upstream.

DRAINAGE AREA.--61.9 mi^2.

PERIOD OF RECORD.--July 1948 to current year. Low-flow records not equivalent prior to January 1962 because most measurements below 300 ft^3/s were made at site 3.4 mi downstream.

GAGE.--Water-stage recorder. Datum of gage is 916.6 ft above sea level (river-profile survey). Prior to August 16, 1948, non-recording gage and August 17, 1948 to May 15, 1972, water-stage recorder on left bank; water-stage recorder on right bank, May 16, 1972 to September 30, 1991, at site 60 ft upstream. Prior to October 1, 1974, at datum 4.00 ft higher; October 1, 1974 to September 30, 1991, at datum 2.00 ft higher.

REMARKS.--Records fair except for October 28 to March 23 (flow under ice), and for discharges above 700 ft^3/s, which are poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 17	2315	1420	5.59	June 20	2345	1630*	5.75*

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	344	93	e60	35	28	23	22	48	517	466	407	185
2	306	e90	e60	36	29	23	20	40	697	439	376	184
3	283	e90	e60	35	27	e23	21	36	806	412	364	225
4	262	e85	e60	34	27	23	21	33	756	400	395	223
5	263	e85	e60	35	27	23	20	31	728	533	349	330
6	271	e85	e55	34	27	23	20	31	650	456	322	345
7	239	e80	e55	34	27	23	20	33	591	398	302	301
8	216	e80	e55	33	26	23	21	39	553	369	288	282
9	201	81	e55	33	26	23	20	40	652	372	274	259
10	190	91	e50	32	e26	23	21	41	783	338	259	246
11	183	e85	e50	32	26	23	21	45	959	335	242	231
12	174	e80	e50	32	26	23	21	55	918	307	234	220
13	167	e75	49	32	27	22	21	72	796	302	233	210
14	161	74	48	32	28	22	21	92	855	296	263	199
15	154	68	e48	34	26	22	21	111	972	282	305	185
16	147	84	e46	32	26	22	21	121	1060	274	279	177
17	141	71	e48	32	25	22	21	121	1100	278	273	169
18	134	66	51	31	25	e22	22	143	1060	271	287	166
19	129	65	48	31	25	e22	23	156	993	290	269	172
20	118	64	45	30	25	e22	25	183	983	378	251	170
21	115	63	44	30	25	e20	28	194	1060	337	238	161
22	125	60	44	30	24	e20	31	191	854	307	229	151
23	113	63	48	30	24	e20	35	189	859	286	217	142
24	113	75	43	29	26	22	33	180	839	306	308	135
25	108	72	40	29	25	22	36	169	738	296	261	129
26	98	e70	39	29	24	22	40	169	809	319	243	123
27	98	e65	37	29	24	21	43	204	719	400	220	118
28	e100	e65	37	e26	24	21	47	300	779	369	216	114
29	e100	e65	38	e28	---	21	50	372	598	380	217	109
30	e95	e65	40	e28	---	21	53	428	516	425	201	104
31	e95	---	37	28	---	20	---	475	---	464	195	---
TOTAL	5243	2255	1500	975	725	682	819	4342	24200	11085	8517	5765
MEAN	169	75.2	48.4	31.5	25.9	22.0	27.3	140	807	358	275	192
MAX	344	93	60	36	29	23	53	475	1100	533	407	345
MIN	95	60	37	26	24	20	20	31	516	271	195	104
MED	147	74	48	32	26	22	21	121	801	338	263	180
AC-FT	10400	4470	2980	1930	1440	1350	1620	8610	48000	21990	16890	11430
CFSM	2.73	1.21	.78	.51	.42	.36	.44	2.26	13.0	5.78	4.44	3.10
IN.	3.15	1.36	.90	.59	.44	.41	.49	2.61	14.54	6.66	5.12	3.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2001, BY WATER YEAR (WY)#

MEAN	138	62.6	40.2	30.8	24.8	20.4	25.2	218	671	500	408	302
MAX	391	134	61.7	54.1	41.2	29.7	68.0	649	1215	1047	909	651
(WY)	1984	1980	1980	1961	1982	1991	1990	1990	1977	1963	1971	1985
MIN	51.3	24.5	17.4	17.5	14.0	10.0	10.0	52.9	276	193	169	82.2
(WY)	1969	1969	1955	1959	1952	1956	1955	1971	1996	1996	1969	1969

\# See Period of Record for remark on low-flow records; partial years used in monthly statistics
e Estimated

15290000 LITTLE SUSITNA RIVER NEAR PALMER--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1948 - 2001#	
ANNUAL TOTAL	86367		66108			
ANNUAL MEAN	236		181		204	
HIGHEST ANNUAL MEAN					316	1949
LOWEST ANNUAL MEAN					95.8	1969
HIGHEST DAILY MEAN	1680	Sep 22	1100	Jun 17	5040	Aug 10 1971
LOWEST DAILY MEAN	a22	Apr 7	b20	Mar 21	c8.0	Apr 1 1956
ANNUAL SEVEN-DAY MINIMUM	22	Apr 5	20	Apr 2	8.0	Apr 1 1956
MAXIMUM PEAK FLOW			1630	Jun 20	d7840	Aug 10 1971
MAXIMUM PEAK STAGE			5.75	Jun 20	f13.00	Aug 10 1971
INSTANTANEOUS LOW FLOW			19	Apr 1	8.0	Apr 1 1956
ANNUAL RUNOFF (AC-FT)	171300		131100		147500	
ANNUAL RUNOFF (CFSM)	3.81		2.93		3.29	
ANNUAL RUNOFF (INCHES)	51.90		39.73		44.69	
10 PERCENT EXCEEDS	765		432		568	
50 PERCENT EXCEEDS	89		80		70	
90 PERCENT EXCEEDS	28		22		20	

\# See Period of Record for remark on low-flow records; partial years used in monthly statistics
a Apr. 7 to Apr. 11
b Mar. 21 to Mar. 23, Mar. 31, Apr. 2, Apr. 5 to Apr. 7 and Apr. 9
c Apr. 1 to Apr. 20, 1956; and Mar. 11 and 12, 1957
d From rating curve extended above 4,600 ft^3/s on basis of slope-area measurement of peak flow
f Gage height about 13.0 ft, from floodmarks; 9.84 ft in gage well; 12.30 ft at top of needle peak in gage well; at prior datum (WY 1974-91) at sites then in use

15292000 SUSITNA RIVER AT GOLD CREEK

LOCATION.--Lat 62°46′04″, long 149°41′28″, in NW¼ sec. 20, T. 31 N., R. 2 W. (Talkeetna Mts. D-6 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020501, near left bank under Alaska Railroad bridge, 0.1 mi downstream from Gold Creek, 0.9 mi north of Gold Creek railroad station, and 2.0 mi. downstream from Indian River.

DRAINAGE AREA.--6,160 mi^2, approximately.

PERIOD OF RECORD.--August 1949 to 1996 and May 25 to September 30, 2001.

GAGE.--Water-stage recorder. Elevation of gage is 676.50 ft above sea level. Prior to June 6, 1957, non-recording gage at same site and datum. June 7, 1957 to June 2, 1964, water-stage recorder at site 0.3 mi upstream at same datum.

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	---	---	---	---	---	---	---	---	24000	22700	38400	13700
2	---	---	---	---	---	---	---	---	26800	20900	32100	12900
3	---	---	---	---	---	---	---	---	e30000	19900	28000	13000
4	---	---	---	---	---	---	---	---	e38000	20300	28300	13800
5	---	---	---	---	---	---	---	---	e36000	21800	27600	15500
6	---	---	---	---	---	---	---	---	e36000	24900	24200	18000
7	---	---	---	---	---	---	---	---	e35400	24000	21100	16800
8	---	---	---	---	---	---	---	---	34100	21500	19800	13800
9	---	---	---	---	---	---	---	---	31100	22500	19300	12300
10	---	---	---	---	---	---	---	---	28700	28600	17900	11100
11	---	---	---	---	---	---	---	---	29800	20900	16500	10300
12	---	---	---	---	---	---	---	---	33600	18600	15600	9760
13	---	---	---	---	---	---	---	---	34400	18300	15400	9570
14	---	---	---	---	---	---	---	---	34500	16600	15100	10100
15	---	---	---	---	---	---	---	---	33400	16100	17000	9940
16	---	---	---	---	---	---	---	---	31800	17000	21000	9380
17	---	---	---	---	---	---	---	---	30900	17700	23200	8840
18	---	---	---	---	---	---	---	---	31100	17400	25700	8440
19	---	---	---	---	---	---	---	---	32800	17100	28400	8360
20	---	---	---	---	---	---	---	---	34400	18600	28100	8330
21	---	---	---	---	---	---	---	---	33900	21100	23200	8710
22	---	---	---	---	---	---	---	---	33500	24400	21500	9100
23	---	---	---	---	---	---	---	---	31900	24900	20800	9020
24	---	---	---	---	---	---	---	---	29800	24500	23100	8410
25	---	---	---	---	---	---	---	16800	28500	22000	22500	7900
26	---	---	---	---	---	---	---	15500	27600	21600	19300	7380
27	---	---	---	---	---	---	---	15100	26200	23100	17900	7040
28	---	---	---	---	---	---	---	18200	25300	25300	17000	6720
29	---	---	---	---	---	---	---	21800	23400	28200	16500	6460
30	---	---	---	---	---	---	---	23200	23100	29100	15900	e6000
31	---	---	---	---	---	---	---	24600	---	33900	15100	---
TOTAL	---	---	---	---	---	---	---	---	930000	683500	675500	310660
MEAN	---	---	---	---	---	---	---	---	31000	22050	21790	10360
MAX	---	---	---	---	---	---	---	---	38000	33900	38400	18000
MIN	---	---	---	---	---	---	---	---	23100	16100	15100	6000
AC-FT	---	---	---	---	---	---	---	---	1845000	1356000	1340000	616200
CFSM	---	---	---	---	---	---	---	---	5.03	3.58	3.54	1.68
IN.	---	---	---	---	---	---	---	---	5.62	4.13	4.08	1.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2001, BY WATER YEAR (WY)#

MEAN	6208	2658	1878	1591	1399	1289	1648	13500	27040	24010	21350	13660
MAX	12680	4192	3264	2452	2028	1900	4250	25630	50580	34400	37870	26510
(WY)	1987	1980	1958	1961	1972	1968	1990	1990	1964	1963	1981	1990
MIN	3124	1215	866	724	723	713	745	3745	15500	16010	8879	5093
(WY)	1970	1970	1970	1969	1969	1964	1964	1971	1969	1996	1969	1969

SUMMARY STATISTICS	FOR 2001 WATER YEAR			WATER YEARS 1949 - 2001#	
ANNUAL MEAN				9724	
HIGHEST ANNUAL MEAN				13020	1990
LOWEST ANNUAL MEAN				5597	1969
HIGHEST DAILY MEAN	38400	Aug	1	85900	Jun 7 1964
LOWEST DAILY MEAN				a600	Feb 16 1950
ANNUAL SEVEN-DAY MINIMUM				614	Feb 16 1950
MAXIMUM PEAK FLOW	40200	Aug	1	90700	Jun 7 1964
MAXIMUM PEAK STAGE	12.22	Aug	1	16.58	Jun 7 1964
MAXIMUM PEAK STAGE				b24.48	May 10 1954
ANNUAL RUNOFF (AC-FT)				7045000	
ANNUAL RUNOFF (CFSM)				1.58	
ANNUAL RUNOFF (INCHES)				21.45	
10 PERCENT EXCEEDS				25700	
50 PERCENT EXCEEDS				3400	
90 PERCENT EXCEEDS				1100	

\# See Period of Record; partial years used in monthly statistics
a Feb. 16-20, 1950
b Maximum observed, ice jam
e Estimated

15292700 TALKEETNA RIVER NEAR TALKEETNA
(Hydrologic Bench-Mark Station)

LOCATION.--Lat 62°20′49″, long 150°01′01″, in NE¼ sec. 16, T. 26 N., R. 4 W. (Talkeetna B-1 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020503, on left bank 1.7 mi downstream from Chunilna Creek, 3.5 mi northeast of Talkeetna, and about 5 mi upstream from mouth.

DRAINAGE AREA.--1,996 mi^2.

REVISED RECORDS.-- WRD AK 2000-1: Drainage Area.

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 400 ft above sea level, from topographic map. From October 1, 1992 to September 30, 1994 at site 0.5 mi upstream at different datum.

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	5570	e1600	e1000	e750	e650	e550	e500	e800	9800	7560	11600	5690
2	4970	e1600	e1000	e750	e630	e550	e525	e850	12500	7480	10400	5590
3	4640	e1500	e950	e750	e630	e550	e525	e850	14100	7350	10400	5800
4	4670	e1500	e950	e750	e630	e550	e525	e900	15200	7010	11100	6110
5	4780	e1500	e950	e750	e630	e550	e525	e900	13800	7980	10200	7200
6	5030	e1500	e950	e750	e630	e550	e550	e950	11900	8380	9040	7200
7	4670	e1400	e950	e750	e630	e550	e550	e950	13100	7250	8400	e6500
8	4430	e1400	e900	e750	e630	e550	e550	e1020	11400	6350	8240	e6000
9	4150	e1400	e900	e750	e600	e530	e550	e1100	11100	6030	7950	e5000
10	3710	e1400	e900	e750	e600	e530	e550	e1200	11800	5780	7450	4640
11	3740	e1300	e900	e750	e600	e530	e550	e1300	13500	5960	6900	4410
12	3500	e1300	e900	e750	e600	e530	e550	e1400	16200	5710	6690	4190
13	3470	e1300	e900	e720	e600	e530	e550	e1600	13900	5480	6720	4050
14	3330	e1200	e850	e720	e600	e530	e600	1770	13100	5900	7410	4010
15	3210	e1200	e850	e720	e600	e530	e600	2340	13400	5740	8140	3720
16	3030	e1200	e850	e720	e600	e530	e600	2890	13700	5600	9910	3530
17	2930	e1200	e850	e720	e600	e530	e600	3210	13300	5890	10100	3390
18	2770	e1200	e850	e720	e570	e530	e600	3690	13600	6030	10700	3290
19	2650	e1200	e850	e720	e570	e530	e650	3880	13300	6280	10700	3240
20	2350	e1100	e850	e700	e570	e530	e650	4670	14600	7600	9490	3290
21	2090	e1100	e850	e700	e570	e530	e650	5230	13900	8400	8270	3250
22	2080	e1100	e800	e700	e570	e500	e650	5180	12900	9990	7980	3020
23	2410	e1100	e800	e700	e570	e500	e650	5100	11600	13200	7480	2860
24	2110	e1100	e800	e700	e570	e500	e700	5440	10800	11600	7920	2740
25	2200	e1100	e800	e670	e570	e500	e700	5460	10800	10600	7850	2710
26	2190	e1100	e800	e670	e570	e500	e700	5290	10000	10200	7140	2930
27	1810	e1000	e800	e670	e570	e500	e750	5510	9290	9910	6840	2680
28	1740	e1000	e800	e650	e570	e500	e750	7930	9400	10100	6400	2540
29	e1700	e1000	e800	e650	---	e500	e750	10100	9480	9800	6110	2450
30	e1700	e1000	e800	e650	---	e500	e800	10600	8670	10300	5780	2360
31	e1600	---	e800	e650	---	e500	---	10200	---	12800	5750	---
TOTAL	99230	37600	26950	22150	16730	16290	18400	112310	370140	248260	259060	124390
MEAN	3201	1253	869	715	598	525	613	3623	12340	8008	8357	4146
MAX	5570	1600	1000	750	650	550	800	10600	16200	13200	11600	7200
MIN	1600	1000	800	650	570	500	500	800	8670	5480	5750	2360
AC-FT	196800	74580	53460	43930	33180	32310	36500	222800	734200	492400	513800	246700
CFSM	1.60	.63	.44	.36	.30	.26	.31	1.82	6.18	4.01	4.19	2.08
IN.	1.85	.70	.50	.41	.31	.30	.34	2.09	6.90	4.63	4.83	2.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)#

MEAN	2798	1171	834	684	576	517	666	4726	11070	10370	9133	5800
MAX	10000	1992	1122	996	990	1058	1912	11510	19040	15410	16770	12090
(WY)	1987	1987	1987	1990	1990	1990	1990	1990	1971	1981	1971	1993
MIN	1424	672	538	457	401	285	396	2145	5207	7080	3787	2070
(WY)	1997	1992	1996	1996	1969	1982	1986	1971	1969	1969	1969	1969

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001#	
ANNUAL TOTAL	1642790		1351510			
ANNUAL MEAN	4488		3703		4042	
HIGHEST ANNUAL MEAN					5389	1990
LOWEST ANNUAL MEAN					2249	1969
HIGHEST DAILY MEAN	21500	Jun 28	16200	Jun 12	63200	Oct 11 1986
LOWEST DAILY MEAN	a500	Feb 29	b500	Mar 22	c260	Feb 27 1982
ANNUAL SEVEN-DAY MINIMUM	500	Feb 29	500	Mar 22	260	Feb 27 1982
MAXIMUM PEAK FLOW			17500	Jun 12	75700	Oct 11 1986
MAXIMUM PEAK STAGE			9.16	Jun 12	17.38	Oct 11 1986
ANNUAL RUNOFF (AC-FT)	3258000		2681000		2928000	
ANNUAL RUNOFF (CFSM)	2.25		1.86		2.02	
ANNUAL RUNOFF (INCHES)	30.62		25.19		27.51	
10 PERCENT EXCEEDS	14200		10200		10700	
50 PERCENT EXCEEDS	1600		1400		1400	
90 PERCENT EXCEEDS	550		550		500	

\# See Period of Record; partial years used in monthly statistics
a Feb. 29 to Apr. 1
b Mar. 22 to Apr. 1
c From Feb. 27 to Mar. 20, 1982
e Estimated

15294005 WILLOW CREEK NEAR WILLOW

LOCATION.--Lat 61°46'51", long 149°53'04", in NW¼ SE¼ sec. 31, T.20 N., R.3 W. (Anchorage D-8 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020505, on the right bank, 0.9 mi downstream from unnamed tributary, 5.5 mi northeast of Willow, and 6.7 mi upstream from Deception Creek.

DRAINAGE AREA.--166 mi^2.

PERIOD OF RECORD.--June 1978 to September 1993, and May to September 2001.

REVISED RECORDS.--WRD-AK-80-1: 1979 (M).

GAGE.--Water-stage recorder. Elevation of gage is 350 ft above sea level from topographic map. Prior to Apr. 2, 1981 at site 0.2 mi upstream at different datum.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge 2,300 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
June 21	0200	*2580	*4.99

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	1120	773	632	274
2	---	---	---	---	---	---	---	e80	1420	724	566	270
3	---	---	---	---	---	---	---	e80	1630	672	592	336
4	---	---	---	---	---	---	---	e90	1520	696	841	326
5	---	---	---	---	---	---	---	e90	1480	1070	709	719
6	---	---	---	---	---	---	---	e100	1380	950	597	653
7	---	---	---	---	---	---	---	e100	1320	733	535	536
8	---	---	---	---	---	---	---	e100	1320	691	501	512
9	---	---	---	---	---	---	---	e110	1460	776	476	446
10	---	---	---	---	---	---	---	e130	1560	688	449	413
11	---	---	---	---	---	---	---	e140	1750	814	422	384
12	---	---	---	---	---	---	---	e170	1750	665	395	358
13	---	---	---	---	---	---	---	e200	1520	662	373	353
14	---	---	---	---	---	---	---	e260	1430	656	377	341
15	---	---	---	---	---	---	---	e280	1640	570	432	313
16	---	---	---	---	---	---	---	e300	1780	538	418	296
17	---	---	---	---	---	---	---	e350	1800	515	457	283
18	---	---	---	---	---	---	---	458	1740	482	581	271
19	---	---	---	---	---	---	---	479	1550	484	509	279
20	---	---	---	---	---	---	---	539	1480	648	445	271
21	---	---	---	---	---	---	---	590	1950	565	396	255
22	---	---	---	---	---	---	---	587	1520	510	351	242
23	---	---	---	---	---	---	---	539	1430	475	325	229
24	---	---	---	---	---	---	---	554	1410	526	436	219
25	---	---	---	---	---	---	---	513	1260	503	401	211
26	---	---	---	---	---	---	---	467	1320	485	386	204
27	---	---	---	---	---	---	---	498	1260	782	341	197
28	---	---	---	---	---	---	---	702	1340	718	318	191
29	---	---	---	---	---	---	---	894	1060	612	316	184
30	---	---	---	---	---	---	---	1080	930	710	299	178
31	---	---	---	---	---	---	---	1100	---	775	303	---
TOTAL	---	---	---	---	---	---	---	11660	44130	20468	14179	9744
MEAN	---	---	---	---	---	---	---	376	1471	660	457	325
MAX	---	---	---	---	---	---	---	1100	1950	1070	841	719
MIN	---	---	---	---	---	---	---	80	930	475	299	178
AC-FT	---	---	---	---	---	---	---	23130	87530	40600	28120	19330
CFSM	---	---	---	---	---	---	---	2.27	8.86	3.98	2.76	1.96
IN.	---	---	---	---	---	---	---	2.61	9.89	4.59	3.18	2.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2001, BY WATER YEAR (WY)#

MEAN	405	162	110	86.6	74.1	64.5	93.9	635	1074	722	620	644
MAX	1197	364	152	112	98.8	97.5	205	1578	1500	1287	1286	1177
(WY)	1987	1980	1980	1980	1990	1990	1990	1990	1990	1980	1981	1993
MIN	177	81.5	57.3	57.1	52.9	33.7	50.5	340	484	338	307	259
(WY)	1985	1985	1981	1981	1981	1982	1986	1985	1981	1983	1978	1978

\# See Period of Record; partial years used in monthly statistics
e Estimated

15294005 WILLOW CREEK NEAR WILLOW--Continued

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1978 - 2001#	
ANNUAL MEAN			401	
HIGHEST ANNUAL MEAN			536	1990
LOWEST ANNUAL MEAN			320	1986
HIGHEST DAILY MEAN	1950	Jun 21	8670	Oct 11 1986
LOWEST DAILY MEAN			a33	Mar 9 1982
ANNUAL SEVEN-DAY MINIMUM			33	Mar 9 1982
MAXIMUM PEAK FLOW	2580	Jun 21	b12000	Oct 11 1986
MAXIMUM PEAK STAGE	4.99	Jun 21	9.01	Oct 11 1986
MAXIMUM PEAK STAGE			c9.40	Dec 18 1986
ANNUAL RUNOFF (AC-FT)			290700	
ANNUAL RUNOFF (CFSM)			2.42	
ANNUAL RUNOFF (INCHES)			32.85	
10 PERCENT EXCEEDS			1000	
50 PERCENT EXCEEDS			223	
90 PERCENT EXCEEDS			65	

\# See Period of Record; partial years used in monthly statistics
a Mar. 9-30, 1982
b From rating curve extended above 3,900 ft^3/s on basis of slope-area measurement of peak flow
c Backwater from ice

SOUTH-CENTRAL ALASKA

15294100 DESHKA RIVER NEAR WILLOW

LOCATION.--Lat 61°46′05″, long 150°20′13″, in SW¼ NE¼ sec. 3, T. 19 N., R. 6 W. (Tyonek D-1 quad), Mantanuska-Susitna Borough , Hydrologic Unit 19020505, on left bank, 0.2 mi upstream from unnamed tributary, 1.1 mi downstream from unnamed tributary, 7.9 mi upstream from mouth, and 10 mi west of Willow.

DRAINAGE AREA.--591 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1986, and October 1998 to September 2001 (discontinued).

REVISED RECORDS.--WRD AK-83-1: 1980, WRD AK-00-1: Drainage area.

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge 3,600 ft³/s and maximums (*).

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
May 01	2015	4440	4.40	May 20	1630	*4850	*4.62

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	720	e400	e380	e320	e260	e270	e290	4280	1880	250	1610	558
2	655	e400	e360	e320	e260	e270	e290	4130	1600	240	1590	553
3	589	e400	e360	e320	e260	e270	e290	3440	1420	229	1010	524
4	550	e400	e360	e320	e260	e270	e290	2980	1200	250	928	536
5	600	e400	e360	e320	e260	e270	e290	2650	1030	309	1500	1200
6	756	e400	e360	e320	e260	e280	e290	2430	902	377	1180	2820
7	1080	e400	e360	e320	e260	e280	e300	2310	853	420	827	3060
8	1230	e400	e360	e320	e260	e280	e300	2300	851	346	636	2310
9	1080	e420	e360	e300	e260	e280	e300	2480	873	301	535	1720
10	920	e440	e360	e300	e260	e280	e300	2920	767	308	465	1360
11	805	e440	e360	e300	e260	e280	e300	3290	688	365	426	1140
12	724	e420	e360	e300	e260	e280	e300	3420	660	796	392	978
13	662	e400	e340	e300	e260	e290	e300	3470	664	1030	371	879
14	e600	e400	e340	e290	e260	e290	e300	3630	661	725	347	809
15	e550	e400	e340	e290	e260	e290	e300	3870	610	565	328	776
16	e500	e400	e340	e290	e260	e290	e300	4140	554	475	370	727
17	e480	e400	e340	e290	e260	e290	e320	4400	501	413	1050	679
18	e460	e400	e340	e280	e260	e290	e320	4540	453	371	1260	640
19	e460	e420	e340	e280	e260	e280	e320	4680	421	335	1470	609
20	e440	e420	e340	e280	e260	e280	e340	4780	399	352	1500	584
21	e420	e400	e340	e280	e260	e280	e360	4640	379	561	1530	550
22	e420	e400	e340	e280	e260	e280	e400	4420	362	720	1150	510
23	e420	e380	e340	e270	e260	e280	e500	4300	362	673	848	488
24	e420	e380	e340	e270	e260	e280	e700	4010	338	677	713	475
25	e420	e380	e340	e260	e260	e290	e1000	3660	316	596	699	460
26	e420	e380	e340	e260	e260	e290	e1400	3230	299	565	807	444
27	e420	e380	e340	e260	e260	e290	e1900	2840	313	531	695	423
28	e400	e380	e340	e260	e270	e290	e2500	2770	298	580	607	406
29	e400	e380	e340	e260	---	e290	3440	2940	278	621	562	386
30	e400	e380	e340	e260	---	e290	3940	2930	259	550	556	376
31	e400	---	e340	e260	---	e290	---	2460	---	583	558	---
TOTAL	18401	12000	10800	8980	7290	8760	22180	108340	20191	15114	26520	26980
MEAN	594	400	348	290	260	283	739	3495	673	488	855	899
MAX	1230	440	380	320	270	290	3940	4780	1880	1030	1610	3060
MIN	400	380	340	260	260	270	290	2300	259	229	328	376
AC-FT	36500	23800	21420	17810	14460	17380	43990	214900	40050	29980	52600	53510
CFSM	1.00	.68	.59	.49	.44	.48	1.25	5.91	1.14	.82	1.45	1.52
IN.	1.16	.76	.68	.57	.46	.55	1.40	6.82	1.27	.95	1.67	1.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)#

MEAN	1161	673	338	277	239	240	590	2800	902	831	1140	1231
MAX	1748	2669	561	393	362	332	1215	4367	1911	2580	2714	2561
(WY)	2000	1980	1980	1980	1980	1980	1980	1985	1985	1981	1981	1982
MIN	480	277	218	191	182	177	215	1361	421	247	399	443
(WY)	1985	1986	1999	1999	1986	1982	1985	1986	1986	1983	2000	1984

\# See Period of Record
e Estimated

15294100 DESHKA RIVER NEAR WILLOW--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001#	
ANNUAL TOTAL	286777		285556			
ANNUAL MEAN	784		782		873	
HIGHEST ANNUAL MEAN					1242	1980
LOWEST ANNUAL MEAN					632	1984
HIGHEST DAILY MEAN	6930	May 5	4780	May 20	9440	Nov 13 1979
LOWEST DAILY MEAN	a260	Feb 21	229	Jul 3	b160	Feb 24 1986
ANNUAL SEVEN-DAY MINIMUM	260	Feb 21	258	Jun 28	160	Feb 24 1986
MAXIMUM PEAK FLOW			4850	May 20	c48000	Oct 12 1986
MAXIMUM PEAK STAGE			4.62	May 20	d13.54	Oct 12 1986
INSTANTANEOUS LOW FLOW			220	Jul 3	160	Feb 24 1986
ANNUAL RUNOFF (AC-FT)	568800		566400		632800	
ANNUAL RUNOFF (CFSM)	1.33		1.32		1.48	
ANNUAL RUNOFF (INCHES)	18.05		17.97		20.08	
10 PERCENT EXCEEDS	1470		2300		2120	
50 PERCENT EXCEEDS	400		400		429	
90 PERCENT EXCEEDS	260		260		210	

\# See Period of Record
a Feb. 21 to Mar. 28
b Feb. 24 to Mar. 8, 1986
c From rating curve extended above 6,430 ft^3/s on basis of slope-area measurement of peak flow 7.0 mi upstream from station
d From floodmarks

15294100 DESHKA RIVER NEAR WILLOW--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to 1984, 1998 to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: January 1999 to September 2001.

INSTRUMENTATION.-- Electronic water-temperature recorder since January 1999, set for 15-minute recording interval.

REMARKS.--
WATER TEMPERATURE: Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the average of the stream by cross section measurements on March 13, May 15, and June 11. No variation was found within the cross sections. No variation was found between mean stream temperature and temperature at the sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 24.0 °C, July 7, 1999; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 23.5 °C, June 28; minimum, 0.0°C on many days during winter.

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

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR								
13...	1300	7.00	72	7.0	0	762	8.5	58.1
13...	1302	35.0	72	7.1	0	762	8.4	57.4
13...	1304	63.0	73	7.2	0	762	8.3	56.8
13...	1306	91.0	73	7.2	0	762	8.4	57.5
13...	1308	119	74	7.2	0	762	8.5	58.1
13...	1310	140	75	7.2	0	762	8.4	57.5
MAY								
15...	1245	20.0	21	6.7	6.5	751	11.2	92.4
15...	1246	65.0	21	6.7	6.5	751	11.0	90.8
15...	1247	110	21	6.7	6.5	751	11.0	90.8
15...	1248	155	21	6.7	6.5	751	11.0	90.8
15...	1249	200	21	6.7	6.5	751	10.9	89.9
JUN								
11...	1423	15.0	51	7.5	16.0	762	9.7	98.3
11...	1425	45.0	51	7.4	16.0	762	9.6	97.2
11...	1426	75.0	51	7.4	16.0	762	9.6	97.2
11...	1428	105	51	7.4	16.0	762	9.6	97.2
11...	1430	135	51	7.3	16.0	762	9.6	97.2

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT (CODE) (50280)	QUALITY ASSURANCE DATA INDICATOR CODE (99111)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)
OCT													
06...	1300	9	9	160	1.90	737	10	3045	1001	--	49	7.6	--
NOV													
14...	1050	9	9	E160	--	--	10	3045	1001	--	48	7.0	--
FEB													
02...	1440	9	9	142	--	262	10	3045	1001	--	73	7.4	--
MAR													
13...	1200	9	9	143	--	286	10	3045	1001	--	73	7.0	5.5
MAY													
08...	1720	9	9	205	3.10	2270	10	3053	1001	--	23	6.6	8.5
15...	1240	9	9	222	4.07	3880	10	3039	1001	--	21	6.7	--
JUN													
11...	1350	9	7	150	1.85	659	10	3045	1001	30	51	7.4	15.0
JUL													
02...	1330	9	9	160	1.26	230	10	3045	1001	--	77	7.4	20.0
AUG													
15...	1230	D	9	--	--	--	--	8010	1099	--	--	--	--
15...	1620	9	9	133	1.46	331	10	3045	1001	--	64	7.3	18.0
SEP													
07...	1450	9	9	191	3.60	3120	10	3053	1003	--	28	6.7	18.5

15294100 DESHKA RIVER NEAR WILLOW--Continued

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

DATE	TEMP-ERATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MMOF HG) (00025)	OXYGEN DIS-OLVED (MG/L) (00300)	OXYGEN, DIS-OLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBO NATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/S AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT													
06...	--	744	--	--	27	7.62	1.84	1.9	29	.85	33	28	.6
NOV													
14...	.00	757	12.8	88	20	5.86	1.36	1.6	23	.67	26	21	.6
FEB													
02...	.00	760	8.1	56	34	9.74	2.34	2.2	38	.86	43	36	.7
MAR													
13...	.00	762	8.4	57	34	9.83	2.30	2.3	38	.91	44	37	.8
MAY													
08...	3.5	760	11.5	87	13	3.90	.887	1.2	13	.61	15	12	.2
15...	6.5	751	11.0	91	9	2.73	.645	.9	10	.35	10	8	.2
JUN													
11...	16.0	762	9.6	97	23	6.75	1.59	1.8	25	.74	28	23	.4
JUL													
02...	20.0	769	8.7	95	35	10.1	2.36	2.4	36	.93	41	34	.4
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	16.0	763	9.5	96	29	8.51	1.96	2.0	35	.74	41	34	.5
SEP													
07...	10.5	760	10.6	95	13	3.89	.899	1.1	10	.55	12	10	.3

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLOU-RIDE DIS-SOLVED (MG/L AS F) (00950)	SIL-ICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOL-IDS, RISI-DUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOL-IDS, SUM OF CON-STITU-ENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMO-NIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMO-NIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMO-NIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT													
06...	.7	<.2	14.2	60	45	.002	.107	.035	.27	.24	.041	.019	.013
NOV													
14...	.6	E.1	13.6	53	41	.006	.764	<.002	E.38	.23	E.027	.012	.092
FEB													
02...	.6	E.1	19.7	66	59	.001	.159	.015	.17	.16	.030	.018	.015
MAR													
13...	.8	<.2	19.0	65	59	.001	.133	.025	.20	.14	.030	.017	.013
MAY													
08...	.3	<.2	9.6	47	25	.001	.049	.006	.31	.21	.045	.011	<.007
15...	.2	<.2	8.2	51	19	.002	.066	.008	.40	.26	.080	.011	<.007
JUN													
11...	.2	<.2	12.7	51	39	.001	.017	.007	.36	.23	.030	.013	E.005
JUL													
02...	.4	<.2	14.9	68	52	<.001	.009	<.002	.18	.15	.014	.011	E.004
AUG													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	.4	E.1	14.6	55	50	.002	.056	.005	.23	.21	.025	.012	.008
SEP													
07...	.5	<.2	9.6	50	24	.004	.030	.006	.53	.42	.088	.015	<.007

15294100 DESHKA RIVER NEAR WILLOW--Continued

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

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CAR-BON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CAR-BON, INOR-GANIC, PAR-TIC. TOTAL (MG/L AS C) (00688)	CAR-BON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CAR-BON, INORG + ORGANIC PAR-TIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN, PARTIC-ULATE WAT FLT SUSP (MG/L AS N) (49570)	CHLOR-A PERIPH-YTON CHROMO-GRAPHIC FLUO-ROM (MG/M2) (70957)	PERIPH-YTON BIO-MASS ASH WEIGHT G/SQ M (00572)	PERIPH-YTON BIO-MASS TOTAL DRY WEIGHT G/SQ M (00573)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT													
06...	820	111	5.1	<.1	.6	.6	.070	--	--	--	--	7	14
NOV													
14...	680	52.9	6.6	<.1	.5	E.5	E.046	--	--	--	--	--	--
FEB													
02...	790	95.0	3.1	--	--	.3	<.022	--	--	--	--	3	2.1
MAR													
13...	690	83.9	2.9	<.1	<.1	.3	<.022	--	--	--	--	3	2.3
MAY													
08...	660	44.5	8.6	--	--	1.0	E.086	--	--	--	--	23	141
15...	440	26.2	8.1	--	--	1.4	.135	--	--	--	--	56	587
JUN													
11...	520	44.8	5.2	--	--	.5	.052	--	--	--	--	4	7.1
JUL													
02...	550	33.8	4.2	--	--	E.2	<.022	--	--	--	--	2	1.2
AUG													
15...	--	--	--	--	--	--	--	21.1	140.1	151.0	8.2	--	--
15...	660	34.8	5.1	--	--	.2	<.022	--	--	--	--	4	3.6
SEP													
07...	550	34.4	14	--	--	2.6	.226	--	--	--	--	33	278

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT	
06...	76
NOV	
14...	--
FEB	
02...	84
MAR	
13...	84
MAY	
08...	58
15...	51
JUN	
11...	82
JUL	
02...	--
AUG	
15...	--
15...	--
SEP	
07...	39

15294100 DESHKA RIVER NEAR WILLOW--Continued

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

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

15294100 DESHKA RIVER NEAR WILLOW--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	1.5	2.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.5
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	1.0	2.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	2.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	2.5	3.5
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	3.5	4.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	3.0	3.5
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	3.0	4.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	3.5	4.5
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	4.5	5.5
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	5.5	6.5
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.0	6.5
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	5.5	6.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	4.5	5.5
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	5.5	6.5
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	6.0	7.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	6.5	7.5
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	6.5	7.5
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	7.0	7.5
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	7.0	7.5
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	7.0	7.5
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	6.5	7.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	7.0	7.5
27	.0	.0	.0	.0	.0	.0	1.0	.0	.0	10.0	7.0	8.5
28	.0	.0	.0	.0	.0	.0	1.5	.0	.5	11.5	9.0	10.5
29	---	---	---	.0	.0	.0	2.5	.5	1.5	11.5	10.0	11.0
30	---	---	---	.0	.0	.0	3.0	1.0	2.0	11.0	10.0	11.0
31	---	---	---	.0	.0	.0	---	---	---	11.5	10.5	11.0
MONTH	.0	.0	.0	.0	.0	.0	3.0	.0	.1	11.5	.0	5.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.0	10.5	11.5	21.5	17.0	19.0	16.0	13.5	15.0	13.0	11.5	12.5
2	15.5	12.5	13.5	22.0	17.5	19.5	17.5	15.5	16.5	13.0	11.5	12.0
3	16.0	14.0	15.0	19.5	16.0	18.0	17.5	15.5	16.5	14.5	11.5	12.5
4	15.5	13.5	14.5	17.5	15.0	16.0	16.5	15.0	15.5	13.0	11.5	12.0
5	14.0	13.0	13.5	17.0	14.0	15.5	16.5	15.0	15.5	12.0	10.5	11.5
6	13.5	10.0	12.5	17.0	14.5	16.0	17.0	15.0	16.0	11.0	10.0	10.5
7	13.0	10.0	11.5	18.5	15.5	17.0	18.0	15.5	16.5	11.0	10.0	10.5
8	14.0	11.0	12.5	17.5	16.0	16.5	17.0	16.5	17.0	11.0	9.0	10.0
9	16.0	13.0	14.5	19.0	14.5	17.0	17.0	16.0	16.5	10.5	8.5	10.0
10	17.5	14.5	16.0	17.5	15.0	16.5	16.0	15.5	16.0	10.5	8.5	9.5
11	16.5	14.5	16.0	16.0	14.5	15.0	17.5	15.0	16.0	10.0	7.5	9.0
12	15.0	13.5	14.5	15.5	14.0	15.0	19.0	16.0	17.0	10.0	9.5	9.5
13	15.5	13.5	14.5	15.0	13.0	14.0	20.5	16.0	18.0	10.5	9.0	10.0
14	17.0	13.5	15.0	16.5	14.5	15.5	18.5	16.5	17.5	11.0	9.5	10.0
15	18.5	15.0	16.5	16.5	15.5	16.0	16.5	15.0	16.0	11.5	9.5	10.5
16	20.0	16.0	17.5	17.0	14.5	16.0	16.0	14.5	15.0	10.5	9.0	10.0
17	20.5	17.0	18.5	17.5	16.0	16.5	15.5	14.0	15.0	12.0	9.0	10.5
18	20.0	16.5	18.0	19.0	15.0	17.0	16.0	14.0	15.0	11.5	10.0	10.5
19	20.5	17.0	18.5	18.5	17.0	18.0	16.0	14.0	14.5	12.0	10.0	11.0
20	21.5	17.0	19.0	18.5	16.5	17.5	15.5	13.5	14.5	12.5	10.0	11.0
21	21.5	18.0	19.5	18.0	17.0	17.5	16.0	14.0	15.0	11.0	8.5	10.0
22	22.0	17.0	19.5	18.5	16.5	17.5	17.0	15.0	15.5	9.5	7.0	8.5
23	23.0	18.0	20.5	17.5	16.5	17.0	16.0	15.0	15.5	9.0	7.5	8.5
24	22.5	19.0	20.5	17.0	15.5	16.0	16.0	14.5	15.0	9.5	8.0	8.5
25	23.0	18.5	20.5	17.0	16.0	16.0	17.0	14.5	15.5	10.0	8.5	9.0
26	23.0	19.0	21.0	18.5	15.5	17.0	16.0	15.0	15.5	10.0	7.5	8.5
27	23.0	19.0	20.5	18.5	16.0	17.5	16.5	14.5	15.5	8.5	7.0	8.0
28	23.5	18.5	20.5	17.5	16.0	17.0	15.5	14.0	14.5	7.5	6.5	7.0
29	22.0	18.5	20.5	16.0	15.0	15.5	14.0	12.5	13.5	7.5	5.5	6.5
30	20.5	18.0	19.0	15.0	13.5	14.5	14.0	12.5	13.0	6.5	5.0	6.0
31	---	---	---	15.5	13.0	14.5	14.5	12.0	13.0	---	---	---
MONTH	23.5	10.0	16.8	22.0	13.0	16.5	20.5	12.0	15.5	14.5	5.0	9.8

15294700 JOHNSON RIVER ABOVE LATERAL GLACIER NEAR TUXEDNI BAY

LOCATION.--Lat 60°05'41", long 152°54'38", in SW¼ NW¼ NW¼ sec. 16, T. 1 S., R. 21 W. (Kenai A-8 quad), Kenai Peninsula Borough, Hydrologic Unit 19020602, on the right bank about 20 mi upstream from mouth, 10 mi south of Tuxedni Bay, and 60 mi northeast of Iliamna.

DRAINAGE AREA.--24.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1995 to current year (no winter record).

GAGE.--Water-stage recorder. Elevation of gage is 450 ft above sea level, from topographic map. July 1995 to June 1996, at site 300 ft downstream at same datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 8,800 ft^3/s, September 21, 1995 from rating curve extended above 3,500 ft^3/s on the basis of slope-area measurement, gage height 14.60 ft at site then in use, gage height 16.27 ft at the current site; minimum not determined, occurs during the winter.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge for the period October 2000 and May through September 2001, 4,690 ft^3/s, July 19 gage height, 14.35 ft; minimum not determined, occurs during the winter.

REMARKS.--Records are fair except for estimated discharges, which are poor. Rain gage at station. 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	98	---	---	---	---	---	---	e85	463	910	833	703
2	91	---	---	---	---	---	---	e85	523	933	836	556
3	86	---	---	---	---	---	---	e85	559	908	742	506
4	111	---	---	---	---	---	---	e90	533	819	668	648
5	176	---	---	---	---	---	---	e90	506	807	651	604
6	324	---	---	---	---	---	---	e95	463	996	673	434
7	354	---	---	---	---	---	---	e100	474	1020	684	345
8	195	---	---	---	---	---	---	e100	484	907	634	300
9	133	---	---	---	---	---	---	e100	528	865	573	264
10	111	---	---	---	---	---	---	e110	581	854	581	250
11	100	---	---	---	---	---	---	e110	613	893	666	230
12	90	---	---	---	---	---	---	e120	613	1030	853	355
13	88	---	---	---	---	---	---	e120	603	925	908	591
14	191	---	---	---	---	---	---	e130	684	858	816	508
15	167	---	---	---	---	---	---	e140	807	884	754	462
16	182	---	---	---	---	---	---	e140	832	940	654	405
17	139	---	---	---	---	---	---	e140	816	985	714	430
18	112	---	---	---	---	---	---	e150	799	956	766	432
19	95	---	---	---	---	---	---	e150	790	2960	947	411
20	83	---	---	---	---	---	---	e150	851	2270	1340	481
21	76	---	---	---	---	---	---	e160	942	1750	1170	520
22	72	---	---	---	---	---	---	e170	994	1470	937	407
23	65	---	---	---	---	---	---	e180	1090	1190	695	564
24	e65	---	---	---	---	---	---	192	1100	1040	762	714
25	e65	---	---	---	---	---	---	202	1080	950	742	428
26	65	---	---	---	---	---	---	218	1250	903	623	340
27	62	---	---	---	---	---	---	212	1340	932	605	287
28	60	---	---	---	---	---	---	254	1310	867	1190	266
29	59	---	---	---	---	---	---	291	1180	821	1040	267
30	57	---	---	---	---	---	---	311	1030	834	1300	223
31	47	---	---	---	---	---	---	339	---	827	1030	---
TOTAL	3619	---	---	---	---	---	---	4819	23838	33304	25387	12931
MEAN	117	---	---	---	---	---	---	155	795	1074	819	431
MAX	354	---	---	---	---	---	---	339	1340	2960	1340	714
MIN	47	---	---	---	---	---	---	85	463	807	573	223
AC-FT	7180	---	---	---	---	---	---	9560	47280	66060	50360	25650
CFSM	4.71	---	---	---	---	---	---	6.27	32.0	43.3	33.0	17.4
IN.	5.43	---	---	---	---	---	---	7.23	35.76	49.96	38.08	19.40

e Estimated

15294700 JOHNSON RIVER ABOVE LATERAL GLACIER NEAR TUXEDNI BAY--Continued

WATER-QUALITY RECORDS

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

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

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	DIS-CHARGE INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN DIS-OLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CONDUCT ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
MAY 2001													
23...	1300	9	9	174	10	752	14.2	102	7.2	93	1.2	39	13.8
JUN													
26...	1230	9	9	1220	10	762	12.8	94	7.2	45	2.5	18	6.38
AUG													
01...	1430	9	9	827	10	757	12.9	104	7.1	38	5.8	15	5.34
SEP													
03...	1130	9	9	693	10	745	11.5	90	7.2	46	4.3	19	6.68
27...	1130	9	9	280	10	745	13.3	102	6.9	58	3.3	25	8.69

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	SODIUM DIS-SOLVED (MG/L AS NA) (00930)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SIL-ICA, DIS-SOLVED (MG/L AS SIO2) (00955)
MAY 2001													
23...	--	1.04	--	.31	--	1.8	--	18	20	23	2.0	<.2	4.7
JUN													
26...	7.62	.581	2.05	.27	.5	.9	1.2	12	12	16	.7	<.2	2.7
AUG													
01...	6.26	.453	1.39	.27	.4	.6	.6	10	12	13	.5	<.2	2.0
SEP													
03...	6.40	.541	.72	.21	<.1	.7	1.5	12	13	16	.5	<.2	2.4
27...	8.31	.719	.83	.24	.3	.9	1.0	14	16	18	.5	<.2	3.2

DATE	SUL-FATE DIS-SOLVED (MG/L AS SO4) (00945)	SOL-IDS, RISI-DUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOL-IDS, SUM OF CON-STITU-ENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMO-NIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMO-NIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMO-NIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, PARTI-CULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CAR-BON, INORG + ORGANIC PAR-TIC. TOTAL (MG/L AS C) (00694)
MAY 2001													
23...	17.8	44	54	<.002	<.10	<.08	.181	<.001	<.022	<.006	<.007	.017	.1
JUN													
26...	5.9	23	26	.002	<.10	E.06	.079	<.001	.030	E.003	<.007	.059	.3
AUG													
01...	5.3	20	21	<.002	<.10	<.08	.025	<.001	.043	<.006	<.007	.042	.4
SEP													
03...	7.0	20	26	E.005	E.06	<.08	E.023	<.001	<.022	<.006	<.007	.012	.1
27...	10.8	34	34	.002	<.10	<.08	.024	.001	<.022	<.006	<.007	.006	<.1

15294700 JOHNSON RIVER ABOVE LATERAL GLACIER NEAR TUXEDNI BAY--Continued

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

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFILTERED TOTAL (UG/L AS CD) (01027)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
MAY 2001													
23...	E.24	11	--	.4	--	14.9	--	<.06	--	54	E.03	--	E.4
JUN													
26...	E.19	33	4070	.5	E1	8.8	27.0	<.06	<2.50	17	E.03	E.07	<.8
AUG													
01...	<.30	21	2570	.7	E1	6.3	15.7	<.06	<2.50	16	<.04	<.10	<.8
SEP													
03...	<.30	20	706	.8	M	6.9	10	<.06	<2.50	19	E.02	E.05	<.8
27...	<.30	19	353	.8	E1	8.7	10.1	<.06	<2.50	33	.04	<.10	<.8

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, DISSOLVED UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, DISSOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
MAY 2001													
23...	--	.12	--	.6	--	<10	--	<.08	--	1.4	--	3.1	--
JUN													
26...	M	.07	E2	.6	<20.0	10	3510	E.06	<1	E.2	<7.0	4.9	79
AUG													
01...	<1	.04	E1	.5	<20.0	<10	2240	<.08	<1	E.2	<7.0	4.8	52
SEP													
03...	<1	.04	<2	<.2	<20.0	M	540	<.08	<1	E.2	<7.0	2.6	16
27...	<1	.07	<2	.4	<20.0	<10	310	<.08	<1	.4	<7.0	2.2	8

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DISSOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS AN) (01090)
MAY 2001													
23...	--	.4	--	.18	--	<.3	--	<1.0	--	26.3	--	E.2	4
JUN													
26...	.03	.3	<1.5	.15	<2	<.3	<3.0	<1.0	<.40	12.5	18.9	.5	3
AUG													
01...	<.01	.4	E.8	<.06	<2	<.3	E.2	<1.0	<.40	10.6	14.5	.5	3
SEP													
03...	<.01	.4	<1.5	<.06	<2	E.2	<3.0	<1.0	<.40	12.5	13.2	.6	4
27...	<.01	.6	E1.1	<.06	<2	<.3	<3.0	<1.0	<.40	16.9	17.4	.6	8

DATE	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	PURPOSE SITE VISIT, (CODE) (50280)	SAMPLER TYPE (CODE) (84164)
MAY 2001						
23...	--	<.02	25	12	1099	3045
JUN						
26...	E23	<.02	118	387	1099	3045
AUG						
01...	E17	<.02	75	167	1099	3045
SEP						
03...	<31	<.02	16	30	1099	3045
27...	<31	.04	5	3.8	1099	3045

15295700 TERROR RIVER AT MOUTH NEAR KODIAK

LOCATION.--Lat 57°41′41″, long 153°09′42″, in SW¼ NE¼ sec. 5, T. 29 S., R. 24 W. (Kodiak C-4 quad), Kodiak Island Borough, Hydrologic Unit 19020701, on Kodiak Island, in Kodiak National Wildlife Refuge, on right bank, 0.9 mi upstream from mouth, 7.5 mi downstream from Terror Lake Dam, and 29 mi southwest of Kodiak.

DRAINAGE AREA.--30.7 mi^2, 45.7 mi^2 prior to partial diversion of Terror Lake to hydropower plant in February 1985.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1964 to October 1968, October 1981 to current year.

REVISED RECORDS.--WDR AK-84-1: 1982-83. WDR AK-96-1: 1995(M).

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map. Prior to October 1, 1981 at site 0.2 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow from 15 mi^2 at headwaters regulated by Terror Lake Dam and some flow diverted from Terror Lake to Kizhuyak River. Regulation for construction began in November 1982. Began filling reservoir April 29, 1984. Diversion to hydropower plant began February 12, 1985. 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	161	156	116	139	77	88	113	166	421	393	310	200
2	161	150	127	119	86	89	128	169	411	391	299	209
3	162	137	127	105	79	91	147	168	422	406	280	208
4	196	138	131	99	91	116	131	167	667	435	497	227
5	231	138	176	94	95	116	125	164	566	451	355	212
6	217	156	134	121	86	95	124	167	525	455	285	194
7	244	218	119	100	87	93	124	167	479	401	267	197
8	204	171	113	87	89	94	127	164	430	348	263	197
9	188	217	115	86	88	95	130	162	414	369	298	190
10	201	290	129	100	88	102	156	162	427	407	281	201
11	193	205	119	102	99	118	151	168	447	417	256	215
12	186	170	117	89	90	113	127	174	440	411	244	208
13	198	266	216	93	81	94	123	185	424	370	249	192
14	188	193	251	149	87	98	123	207	455	346	252	181
15	180	180	161	246	75	96	124	226	447	478	253	193
16	193	241	123	168	105	84	120	295	492	513	267	332
17	189	216	127	524	151	85	118	314	516	415	357	312
18	181	175	126	407	105	85	124	264	479	487	294	240
19	177	142	169	218	156	90	123	238	492	878	254	209
20	177	173	289	265	98	92	130	308	537	491	615	255
21	199	271	196	190	86	98	139	584	546	393	439	731
22	191	240	145	136	89	97	157	402	563	401	296	1000
23	189	205	126	108	96	97	134	294	541	399	224	550
24	224	283	206	100	99	113	130	264	487	335	202	557
25	243	200	332	93	104	97	129	253	456	288	234	503
26	209	157	215	103	102	95	140	245	506	277	220	375
27	200	137	186	91	124	84	136	218	608	281	256	349
28	192	133	346	92	95	85	134	236	659	277	264	313
29	197	107	350	86	---	87	142	313	557	288	215	358
30	232	109	227	94	---	83	135	344	460	325	217	283
31	191	---	175	88	---	91	---	380	---	312	197	---
TOTAL	6094	5574	5489	4492	2708	2961	3944	7568	14874	12438	8940	9391
MEAN	197	186	177	145	96.7	95.5	131	244	496	401	288	313
MAX	244	290	350	524	156	118	157	584	667	878	615	1000
MIN	161	107	113	86	75	83	113	162	411	277	197	181
AC-FT	12090	11060	10890	8910	5370	5870	7820	15010	29500	24670	17730	18630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2001, BY WATER YEAR (WY)#

MEAN	274	184	145	121	110	101	172	324	500	369	290	295
MAX	427	354	313	153	168	152	247	454	872	1070	662	707
(WY)	1995	1987	1986	1988	1994	1998	1993	1993	1987	1987	1988	1995
MIN	192	93.8	78.4	81.8	72.6	60.9	115	244	305	228	183	175
(WY)	1998	1995	1988	1989	1989	1986	1986	2000	1990	1989	1994	2000

See Period of Record and Remarks

15295700 TERROR RIVER AT MOUTH NEAR KODIAK--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1986 - 2001#	
ANNUAL TOTAL	72075		84473			
ANNUAL MEAN	197		231		241	
HIGHEST ANNUAL MEAN					369	1987
LOWEST ANNUAL MEAN					193	2000
HIGHEST DAILY MEAN	1110	Jun 12	1000	Sep 22	4610	Sep 20 1995
LOWEST DAILY MEAN	85	Feb 19	75	Feb 15	a26	Dec 11 1996
ANNUAL SEVEN-DAY MINIMUM	88	Feb 14	86	Jan 29	39	Nov 19 1985
MAXIMUM PEAK FLOW			1730	Sep 22	b10000	Sep 19 1995
MAXIMUM PEAK STAGE			3.77	Sep 22	7.67	Sep 19 1995
INSTANTANEOUS LOW FLOW			67	Jan 9	a9.8	Dec 11 1996
ANNUAL RUNOFF (AC-FT)	143000		167600		174500	
10 PERCENT EXCEEDS	342		449		462	
50 PERCENT EXCEEDS	175		192		185	
90 PERCENT EXCEEDS	93		93		85	

PRIOR TO CONSTRUCTION OF TERROR LAKE DAM

SUMMARY STATISTICS, WATER YEARS 1965 - 1983 #

ANNUAL MEAN	293	
HIGHEST ANNUAL MEAN	421	1983
LOWEST ANNUAL MEAN	230	1967
HIGHEST DAILY MEAN	2600	Oct 2 1965
LOWEST DAILY MEAN	c19	Feb 23 1967
ANNUAL SEVEN-DAY MINIMUM	20	Feb 23 1967
INSTANTANEOUS PEAK FLOW	3820	Sep 26 1966
INSTANTANEOUS PEAK STAGE	d6.48	Sep 26 1966
INSTANTANEOUS PEAK STAGE	f7.54	Mar 28 1964
ANNUAL RUNOFF (AC-FT)	212200	
ANNUAL RUNOFF (CFSM)	9.54	
ANNUAL RUNOFF (IN)	129.66	
10 PERCENT EXCEEDS	774	
50 PERCENT EXCEEDS	157	
90 PERCENT EXCEEDS	39	

\# See Period of Record and Remarks
a Occurred while dam release valve was closed for repair
b From rating curve extended above 960 ft^3/s on basis of slope-area measurement of peak flow
c Feb. 23 and Mar. 1, 1967
d Site and datum then in use
f Site and datum then in use; from tidal wave

15295700 TERROR RIVER AT MOUTH NEAR KODIAK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968, 1982 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: December 1981 to current year.

INSTRUMENTATION.--Water-temperature recorder since December 10, 1981. Electronic water temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the average for the river by cross section on December 28, and July 17. No variation was found within the cross sections. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 13.5°C, July 19, 1990 and August 8, 1993; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 11.0°C, August 7,13 and 23; minimum, 0.0°C on many days during winter.

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

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC-ATION, CROSS SECTION (FT FM R BK) (72103)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)
DEC							
28...	1330	70.0	2.0	1.68	313	2.5	4.5
28...	1331	70.0	17.0	1.68	313	2.5	4.5
28...	1332	70.0	32.0	1.68	313	2.5	4.5
28...	1333	70.0	47.0	1.68	313	2.5	4.5
28...	1334	70.0	62.0	1.68	313	2.5	4.5
28...	1335	70.0	69.0	1.68	313	2.5	4.5
JUL							
17...	1155	71.5	4.5	1.84	388	6.0	19.5
17...	1156	71.5	18.5	1.84	388	6.0	19.5
17...	1157	71.5	33.5	1.84	388	6.0	19.5
17...	1158	71.5	48.5	1.84	388	6.0	19.5
17...	1159	71.5	63.5	1.84	388	6.0	19.5

15295700 TERROR RIVER AT MOUTH NEAR KODIAK--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
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	6.0	7.0	4.0	2.0	3.0	.5	.0	.5	1.5	1.0	1.5
2	8.5	7.5	8.0	5.0	4.0	4.0	1.0	.5	.5	2.0	1.0	1.5
3	8.5	7.0	8.0	4.0	3.0	3.5	1.5	1.0	1.5	1.5	.5	1.0
4	8.5	7.5	8.0	4.0	3.0	4.0	2.0	1.0	1.5	.5	.5	.5
5	8.5	7.5	7.5	4.5	3.5	4.0	2.0	1.5	2.0	.5	.0	.5
6	8.5	7.0	7.5	4.5	3.5	4.0	2.5	1.0	2.0	.5	.0	.5
7	7.5	6.0	7.0	4.0	3.0	3.5	2.0	1.0	1.5	1.0	.5	1.0
8	6.5	5.0	5.5	4.5	3.0	4.0	1.5	1.0	1.0	1.0	.5	.5
9	6.0	4.5	5.0	5.0	4.0	4.5	2.5	1.5	2.0	.5	.0	.5
10	7.0	5.0	6.0	4.5	3.5	4.0	2.0	1.5	2.0	.5	.0	.0
11	6.5	5.0	5.5	3.5	2.0	2.5	2.5	2.0	2.5	.5	.0	.5
12	6.5	4.5	5.5	3.5	2.5	3.0	3.0	2.5	2.5	1.0	.5	.5
13	7.0	4.5	5.5	4.0	2.5	3.5	2.5	2.0	2.5	1.0	.5	1.0
14	6.5	5.5	6.0	2.5	2.0	2.0	2.0	1.5	1.5	1.0	.5	.5
15	6.5	5.0	6.0	3.5	2.0	3.0	2.0	1.0	1.5	1.0	.0	.5
16	6.5	5.5	6.0	3.0	2.5	2.5	1.0	.5	.5	1.5	1.0	1.5
17	6.5	5.5	6.0	3.0	2.5	2.5	1.0	1.0	1.0	1.5	1.0	1.5
18	6.5	5.5	5.5	3.0	2.5	2.5	2.0	.5	1.5	2.0	1.5	1.5
19	6.0	4.5	5.0	3.0	2.0	2.5	2.5	2.0	2.0	2.0	1.5	1.5
20	5.5	4.5	5.0	3.5	2.0	3.0	2.5	2.0	2.0	2.0	1.5	2.0
21	5.0	4.0	5.0	3.0	2.5	3.0	2.0	1.5	1.5	1.5	1.0	1.5
22	5.5	4.0	5.0	3.0	2.5	3.0	2.0	2.0	2.0	2.0	1.0	1.5
23	4.5	3.5	4.0	3.0	2.5	2.5	2.5	2.0	2.5	1.5	.5	1.0
24	6.0	4.5	5.0	3.0	2.5	3.0	3.0	2.0	2.5	2.0	.5	1.0
25	5.0	3.5	4.0	2.5	2.0	2.5	2.5	2.0	2.0	1.5	.5	1.0
26	5.5	4.0	4.5	2.5	1.0	2.0	2.0	1.5	2.0	2.0	.5	1.0
27	5.0	4.0	4.5	2.0	.5	1.5	2.5	1.5	2.0	1.5	.5	1.0
28	5.0	3.5	4.0	2.0	1.0	2.0	3.0	2.5	2.5	1.5	.5	1.0
29	5.5	4.5	5.0	1.5	.5	1.0	2.5	1.5	2.0	1.0	.0	.5
30	5.0	3.5	4.0	.5	.5	.5	2.0	.5	2.0	.5	.0	.5
31	3.5	2.5	3.5	---	---	---	1.5	1.0	1.5	.5	.0	.5
MONTH	8.5	2.5	5.6	5.0	.5	2.9	3.0	.0	1.8	2.0	.0	.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.5	1.5	.0	.5	3.0	.0	1.0	6.0	1.0	3.0
2	.5	.0	.5	1.0	.0	.5	3.5	1.0	2.0	4.0	2.0	2.5
3	.5	.0	.5	2.5	.5	1.5	3.5	1.0	2.0	4.0	.5	2.0
4	.5	.5	.5	1.5	1.0	1.5	3.5	.5	1.5	5.0	.5	2.0
5	1.0	.5	.5	2.5	1.0	1.5	4.0	.5	1.5	3.5	.5	2.0
6	2.0	.5	1.0	3.5	.5	1.5	4.0	1.0	2.0	4.0	1.5	2.5
7	1.0	.0	.5	2.0	.0	1.0	4.0	1.0	2.5	6.5	1.5	3.5
8	1.5	.0	.5	3.0	1.5	2.0	5.0	1.5	2.5	6.5	1.0	3.5
9	1.5	.5	1.0	3.5	2.0	2.5	4.0	1.5	2.5	4.5	2.0	3.0
10	2.5	.5	1.5	3.5	2.0	2.5	4.5	2.5	3.0	6.0	1.5	3.5
11	2.5	1.5	2.0	3.5	2.0	2.5	4.0	1.5	2.5	6.5	1.0	3.5
12	2.0	.5	1.5	4.0	2.0	2.5	4.0	.5	2.0	6.5	1.5	3.5
13	.5	.0	.5	3.0	.5	2.0	3.5	1.5	2.5	7.0	2.0	4.0
14	1.0	.0	.5	2.5	1.5	2.0	6.0	2.0	3.0	6.0	2.5	4.0
15	2.0	1.0	1.5	3.0	1.0	2.0	4.5	1.0	2.5	5.0	2.5	3.5
16	2.0	1.0	1.5	3.0	1.5	2.0	4.5	2.0	3.0	4.5	2.5	3.5
17	2.0	1.0	1.5	3.0	1.5	2.0	4.5	2.0	3.0	6.0	3.0	4.0
18	2.5	1.0	1.5	3.0	.5	1.5	4.5	1.5	3.0	7.5	2.5	4.5
19	2.0	.5	1.5	2.0	.0	1.0	4.5	1.0	2.5	8.5	2.0	4.5
20	2.0	.5	1.0	2.5	.0	1.0	4.0	2.0	3.0	4.0	3.0	3.5
21	1.0	.0	.5	1.5	.0	.5	5.0	2.0	3.5	4.5	3.0	3.5
22	.5	.0	.5	1.5	.0	.5	5.5	2.5	4.0	6.5	2.5	4.0
23	1.0	.0	.5	1.0	.0	.0	6.0	1.5	3.5	7.0	2.5	4.5
24	1.0	.0	.5	.5	.0	.5	6.0	2.5	4.0	6.5	3.0	4.5
25	2.0	1.0	1.5	2.5	.5	1.5	5.0	2.0	3.5	8.0	2.5	5.0
26	2.0	.5	1.0	3.5	1.0	2.0	5.0	2.5	3.5	5.0	3.0	4.0
27	2.0	.5	1.5	4.0	.5	1.5	7.0	2.0	4.0	8.5	3.0	5.5
28	1.5	.0	.5	3.5	.0	1.5	5.5	2.0	3.5	8.5	3.0	5.5
29	---	---	---	3.0	.5	1.5	4.5	2.5	3.5	8.5	3.5	5.5
30	---	---	---	2.5	.0	1.0	6.0	2.0	4.0	8.0	2.5	5.0
31	---	---	---	2.0	.0	.5	---	---	---	8.5	3.0	5.0
MONTH	2.5	.0	.9	4.0	.0	1.4	7.0	.0	2.8	8.5	.5	3.8

15295700 TERROR RIVER AT MOUTH NEAR KODIAK--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
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	2.5	5.0	8.0	3.5	5.5	10.0	5.5	7.5	9.5	6.0	7.5
2	8.5	2.5	5.0	8.5	3.5	5.5	9.0	5.5	7.0	9.5	7.0	8.0
3	5.5	2.5	4.0	6.5	4.0	5.0	7.5	6.0	6.5	9.0	7.0	8.0
4	4.5	3.0	3.5	7.5	4.0	5.5	7.0	6.0	6.5	8.5	7.0	7.5
5	5.0	2.5	3.5	6.5	4.5	5.0	9.0	5.5	7.0	7.5	6.5	7.0
6	5.0	3.0	4.0	7.5	4.0	5.5	10.0	5.5	7.5	7.0	5.5	6.0
7	5.0	3.0	4.0	7.5	3.5	5.5	11.0	6.0	8.0	8.5	6.0	7.0
8	6.5	3.0	4.5	8.5	4.0	6.0	10.5	6.0	8.0	8.0	5.0	6.5
9	8.0	2.5	5.0	9.0	4.0	6.0	8.5	7.0	7.5	8.0	4.5	6.0
10	8.5	3.0	5.0	6.0	4.5	5.5	8.5	6.5	7.5	7.5	6.5	7.0
11	8.0	3.0	5.0	7.0	4.5	5.5	10.0	6.5	8.0	7.0	6.0	6.5
12	5.5	3.0	4.5	6.5	4.5	5.5	10.5	6.5	8.0	7.0	6.0	6.5
13	8.0	3.5	5.5	6.0	4.0	5.0	11.0	6.5	8.5	8.0	5.5	6.5
14	8.0	2.5	5.0	9.0	5.0	6.5	10.5	7.0	8.5	8.0	5.5	6.5
15	8.0	3.0	5.0	6.5	5.0	5.5	9.5	7.5	8.5	7.0	6.5	6.5
16	8.0	3.5	5.0	7.5	5.0	5.5	9.0	7.5	8.0	8.0	7.0	7.5
17	7.5	3.0	5.0	8.0	4.0	6.0	8.5	7.5	8.0	8.0	7.0	7.5
18	6.5	3.0	4.5	8.0	5.0	6.5	9.5	7.0	8.0	8.5	7.0	7.5
19	6.5	3.5	4.5	6.5	5.0	5.5	8.5	6.5	7.5	8.0	6.5	7.0
20	6.0	3.5	4.5	8.0	4.0	6.0	7.5	7.0	7.5	7.5	5.5	6.5
21	8.0	3.0	5.0	7.5	5.0	6.0	10.0	6.0	7.5	7.0	5.5	6.5
22	8.0	3.5	5.0	7.5	5.5	6.5	10.0	6.0	8.0	8.0	6.0	7.0
23	7.5	3.5	5.0	7.0	5.0	6.0	11.0	7.0	8.5	6.5	5.5	6.0
24	7.5	3.0	5.0	7.0	5.5	6.0	8.5	7.0	8.0	6.5	5.5	6.0
25	8.5	3.5	5.5	7.5	5.5	6.5	8.5	7.5	8.0	7.5	6.0	6.5
26	8.0	3.5	5.5	8.0	5.5	6.5	8.5	7.0	8.0	7.0	6.0	6.5
27	8.0	3.5	5.5	9.0	5.0	7.0	8.0	7.0	7.5	6.5	5.5	6.0
28	8.0	3.5	5.0	8.5	5.5	7.0	8.0	6.5	7.0	7.0	6.0	6.5
29	6.0	3.5	5.0	10.0	5.5	7.5	8.0	6.5	7.0	7.5	6.0	6.5
30	5.5	3.5	4.5	8.0	6.5	7.0	8.5	6.5	7.5	6.0	4.5	5.5
31	---	---	---	8.0	6.0	6.5	8.0	6.5	7.5	---	---	---
MONTH	8.5	2.5	4.8	10.0	3.5	6.0	11.0	5.5	7.7	9.5	4.5	6.7