

## 1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL

LOCATION.--Lat 56°14'26", long 130°52'49", in NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 16, T. 65 S., R. 94 E. (Bradfield Canal A-3 quad), Hydrologic Unit 19010101, in Misty Fiords National Monument, on right bank 17 mi upstream from the Post (Bishop Ranch), near the mouth of Burroughs Bay and approximately 60 mi southeast of Wrangell.

DRAINAGE AREA.--745 mi<sup>2</sup>.

PERIOD OF RECORD.--April 2003 to current year (no winter record).

GAGE.--Water-stage recorder. Elevation of gage is 130 ft above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 34,800 ft<sup>3</sup>/s, October 26, 2003, gage height 29.48 ft; minimum discharge not determined, usually occurs during winter.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 24,200 ft<sup>3</sup>/s, October 13, gage-height 30.10 ft; minimum discharge 914 ft<sup>3</sup>/s, February 24, gage height 20.89 ft, but may have been lower during winter.

REMARKS.--No estimated daily discharges. Records good. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5000	3190	2080	---	---	1110	1410	4960	11100	11000	8340	9570
2	4820	3770	5930	---	---	1340	1330	4880	10900	11000	7980	8540
3	4630	4590	8510	---	---	1830	1320	4970	10500	11100	8090	7530
4	5140	8570	4880	---	---	2230	1420	5310	9750	14100	9840	6810
5	9680	4990	3490	---	---	2180	1390	5510	9290	15000	10300	6410
6	10400	3710	2590	---	---	1970	1330	5900	9350	13000	10500	8220
7	11600	3100	2160	---	---	2040	1430	6500	10200	11600	9910	13600
8	7790	2820	2220	---	---	2550	1510	6690	11400	10400	9830	13800
9	6340	2520	2210	---	---	3330	1580	7200	11600	9550	10400	9750
10	7060	2310	2010	---	---	3720	1670	7950	10500	9830	10900	8330
11	6480	2170	1850	---	---	5400	1720	8370	10200	9820	11600	7760
12	6230	2050	1720	---	---	3710	1740	8050	10200	9510	13000	7570
13	18900	2100	1620	---	---	2980	1650	8140	9700	9550	13200	8840
14	11700	2470	1590	---	---	2640	1590	10100	10600	9820	13200	7790
15	8650	2750	1610	---	---	2440	1550	11900	9880	11400	12500	6630
16	7030	2700	3170	---	---	2190	1520	10200	9370	10900	10800	6040
17	5760	2400	4570	---	---	1950	1580	8940	10000	11300	10300	5900
18	4900	2120	6380	---	---	1780	1640	8400	11600	11500	11300	11100
19	4190	1960	11000	---	---	1550	2200	8890	12600	10400	16200	11200
20	3940	2670	6620	---	---	1490	2740	8940	12300	9820	15600	8200
21	3670	9050	4620	---	---	1470	3180	8080	12000	9750	13300	6480
22	3610	5440	3710	---	1020	1350	4060	7920	10100	9530	11400	5640
23	3310	3910	3700	---	996	1280	4530	8190	9520	9480	9700	5380
24	3110	3280	5190	---	956	1230	6130	8860	9420	9330	8640	6170
25	2990	2900	4460	---	968	1190	7640	8850	9670	9020	8590	7810
26	2790	2670	3310	---	955	1170	8030	8770	10200	9000	10800	6160
27	2700	2430	---	---	964	1260	9070	10200	10900	11000	9500	5010
28	2780	2260	---	---	1030	1280	9130	10600	11700	12600	8520	12200
29	3970	2170	---	---	---	1230	7490	11000	12400	10600	8320	11600
30	3770	2080	---	---	---	1220	5980	11300	12100	9100	9830	8530
31	3210	---	---	---	---	1330	---	11200	---	8760	11100	---
TOTAL	186150	99150	---	---	---	62440	97560	256770	319050	328770	333490	248570
MEAN	6005	3305	---	---	---	2014	3252	8283	10640	10610	10760	8286
MAX	18900	9050	---	---	---	5400	9130	11900	12600	15000	16200	13800
MIN	2700	1960	---	---	---	1110	1320	4880	9290	8760	7980	5010
AC-FT	369200	196700	---	---	---	123800	193500	509300	632800	652100	661500	493000
CFSM	8.06	4.44	---	---	---	2.70	4.37	11.1	14.3	14.2	14.4	11.1
IN.	9.30	4.95	---	---	---	3.12	4.87	12.82	15.93	16.42	16.65	12.41

1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2003 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 2003 to current year.

INSTRUMENTATION.--Digital water-temperature recorder with 15-minute recording interval.

REMARKS.--Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on September 26. No variation was found in the temperature cross sections. The variation found between mean stream temperature and sensor temperature was less than 0.2°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 11.0°C, July 9, 23-24, 2004; minimum, 0.0°C, many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 10.5°C, several days in June, July, and August; minimum, 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking downstrm ft from bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
SEP								
26...	1530	144	20.0	23.73	5750	10	7.7	12.2
26...	1531	144	45.0	23.73	5750	10	7.7	12.2
26...	1532	144	70.0	23.73	5750	10	7.7	12.2
26...	1533	144	95.0	23.73	5750	10	7.7	12.2
26...	1534	144	120	23.73	5750	10	7.7	12.2

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.5	6.0	6.5	4.0	3.0	3.5	3.5	3.5	3.5	0.0	0.0	0.0
2	7.5	6.0	6.5	3.5	3.0	3.5	4.0	3.0	3.5	0.0	0.0	0.0
3	7.5	5.5	6.5	3.5	3.5	3.5	3.5	3.0	3.0	0.0	0.0	0.0
4	7.0	6.5	6.5	3.5	2.5	3.0	3.0	2.5	3.0	0.0	0.0	0.0
5	6.5	6.0	6.5	4.0	2.5	3.0	2.5	0.5	1.5	0.5	0.0	0.0
6	6.0	5.5	6.0	3.5	2.0	3.0	0.5	0.0	0.5	0.5	0.0	0.0
7	6.5	6.0	6.0	2.5	2.0	2.0	0.5	0.0	0.0	0.5	0.0	0.0
8	6.5	6.0	6.5	3.0	2.5	2.5	1.0	0.5	0.5	0.5	0.0	0.0
9	6.5	6.0	6.5	2.5	2.0	2.5	1.0	0.5	1.0	0.0	0.0	0.0
10	6.5	6.0	6.5	2.5	1.5	2.0	1.5	1.0	1.0	0.5	0.0	0.0
11	6.5	5.5	6.0	2.0	1.5	1.5	2.0	1.0	1.5	0.5	0.0	0.0
12	6.0	5.5	5.5	2.0	1.5	1.5	2.0	1.5	2.0	0.0	0.0	0.0
13	6.5	6.0	6.5	2.5	2.0	2.0	2.0	1.5	1.5	0.0	0.0	0.0
14	6.5	6.0	6.0	3.0	2.0	2.5	2.5	2.0	2.0	0.0	0.0	0.0
15	7.0	5.5	6.0	3.0	3.0	3.0	2.5	2.0	2.5	0.0	0.0	0.0
16	5.5	4.5	5.0	3.5	3.0	3.0	2.5	1.5	2.0	0.0	0.0	0.0
17	5.0	4.0	4.5	3.5	2.5	3.0	2.5	1.5	2.0	0.0	0.0	0.0
18	4.0	3.5	3.5	2.5	2.0	2.0	2.5	2.0	2.5	0.0	0.0	0.0
19	3.5	2.0	3.0	2.5	1.5	2.0	2.5	2.0	2.0	0.5	0.0	0.5
20	4.5	3.0	3.5	3.0	2.5	3.0	2.5	2.0	2.5	0.5	0.5	0.5
21	3.5	3.0	3.0	3.0	2.0	2.5	2.5	2.0	2.5	1.0	0.5	0.5
22	4.0	2.5	3.5	3.0	2.5	3.0	2.5	2.5	2.5	1.0	0.5	0.5
23	4.0	3.0	3.5	2.5	1.5	2.5	3.0	2.5	2.5	0.5	0.5	0.5
24	3.5	3.0	3.0	2.5	1.5	2.0	3.0	2.5	2.5	0.5	0.0	0.5
25	4.0	3.0	3.5	3.0	2.5	2.5	2.5	1.5	2.0	1.0	0.5	0.5
26	3.5	2.5	3.0	3.0	2.5	3.0	1.5	0.5	0.5	1.0	1.0	1.0
27	3.0	2.0	2.5	3.0	3.0	3.0	1.0	0.5	1.0	1.5	1.0	1.0
28	4.0	3.0	3.5	3.5	3.0	3.5	0.5	0.0	0.5	1.5	1.5	1.5
29	3.5	3.0	3.5	3.5	3.0	3.5	0.5	0.0	0.5	2.0	1.5	1.5
30	4.0	3.5	4.0	3.5	3.0	3.5	0.0	0.0	0.0	2.0	0.5	1.5
31	4.0	3.5	4.0	---	---	---	0.0	0.0	0.0	1.5	0.5	1.0
MONTH	7.5	2.0	4.9	4.0	1.5	2.7	4.0	0.0	1.7	2.0	0.0	0.4

## SOUTHEAST ALASKA

## 1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.0	1.0	3.0	2.0	2.5	4.0	2.0	3.0	7.0	4.0	5.5
2	2.0	1.0	1.5	3.0	2.5	2.5	3.0	1.5	2.5	6.5	4.5	5.5
3	2.0	1.5	2.0	2.5	2.0	2.0	5.5	2.5	3.5	7.0	4.5	6.0
4	2.0	1.0	1.5	2.5	2.0	2.0	4.5	2.5	3.5	7.5	4.0	6.0
5	1.5	0.0	0.5	3.0	2.0	2.5	4.5	3.0	3.5	7.0	5.0	6.0
6	0.0	0.0	0.0	3.0	2.0	2.5	6.5	3.5	4.5	8.5	4.0	6.0
7	0.5	0.0	0.5	3.0	2.0	2.5	6.5	4.0	5.0	8.0	4.0	6.0
8	0.5	0.0	0.5	3.0	1.5	2.5	6.5	3.5	4.5	8.5	4.0	6.0
9	1.0	0.0	0.5	3.0	1.5	2.5	5.0	4.0	4.5	8.5	4.0	6.5
10	0.5	0.0	0.5	2.5	1.5	2.0	4.5	3.5	4.0	8.5	4.0	6.5
11	1.0	0.0	0.5	2.5	1.5	2.0	6.0	3.5	4.5	7.0	4.5	6.0
12	1.5	0.5	1.0	3.5	2.0	3.0	6.0	3.5	4.5	6.5	4.5	6.0
13	2.0	1.0	1.0	4.0	2.0	3.0	5.0	3.0	4.0	7.0	5.0	6.0
14	1.5	0.5	1.0	4.0	2.0	3.0	5.5	4.0	4.5	6.5	4.5	5.5
15	1.0	0.0	0.5	3.5	2.5	3.0	4.5	3.5	4.0	6.0	4.0	5.0
16	1.5	0.5	1.0	3.5	1.5	2.5	4.5	3.5	4.0	7.0	4.5	5.5
17	2.0	0.5	1.0	3.5	1.0	2.0	6.5	3.0	4.5	8.0	4.5	6.0
18	2.0	1.0	1.5	3.0	0.5	1.5	6.5	4.5	5.5	8.0	4.5	6.5
19	1.5	0.5	1.0	1.0	0.0	0.5	5.5	4.0	5.0	7.0	5.5	6.5
20	1.0	0.5	0.5	1.0	0.0	0.5	6.0	4.0	5.0	6.5	5.0	6.0
21	1.0	0.0	0.5	2.5	0.5	1.5	5.5	3.5	4.5	8.0	4.5	6.5
22	2.0	0.5	1.0	4.5	2.0	3.0	7.0	3.0	5.0	8.0	5.0	6.5
23	2.5	1.5	2.0	4.5	1.5	2.5	7.5	3.0	5.0	7.5	5.5	6.5
24	1.5	0.5	1.0	4.5	1.0	2.5	7.0	3.0	5.0	8.0	5.5	6.5
25	3.0	1.5	2.0	3.5	1.5	2.5	6.5	2.5	4.5	9.0	4.5	7.0
26	2.5	2.0	2.0	4.0	2.5	3.5	7.0	3.0	5.0	9.5	5.5	7.0
27	3.0	2.0	2.0	4.5	3.0	3.5	7.0	3.0	5.0	8.5	5.5	7.0
28	4.0	2.0	2.5	4.5	2.5	3.5	7.0	3.0	5.0	9.5	5.0	7.5
29	---	---	---	5.0	3.0	3.5	6.5	3.0	5.0	8.0	5.5	6.5
30	---	---	---	4.5	2.0	3.5	6.0	3.0	4.5	9.0	5.5	7.0
31	---	---	---	4.5	3.0	3.5	---	---	---	9.5	5.5	7.0
MONTH	4.0	0.0	1.1	5.0	0.0	2.5	7.5	1.5	4.4	9.5	4.0	6.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	5.5	7.0	8.0	7.0	7.5	8.5	6.5	7.5	7.5	6.5	7.0
2	9.0	5.5	7.5	8.0	6.5	7.0	9.5	6.5	8.0	8.0	6.5	7.0
3	8.5	5.5	7.0	7.5	6.0	7.0	8.5	6.5	7.0	8.5	6.5	7.5
4	8.0	5.5	7.0	7.5	6.0	7.0	8.5	6.5	7.5	8.5	7.0	7.5
5	8.5	5.0	7.0	7.0	6.5	6.5	7.5	6.5	7.0	8.5	6.5	7.5
6	8.0	6.0	6.5	8.0	6.0	7.0	9.0	6.5	7.5	8.0	7.0	7.0
7	8.0	6.5	7.0	8.0	6.0	7.0	10.0	6.5	8.0	7.5	7.0	7.0
8	9.5	6.0	7.5	8.5	6.0	7.0	10.5	6.5	8.5	8.0	6.5	7.0
9	8.5	5.5	7.5	9.0	6.0	7.5	10.5	7.0	8.5	8.5	6.5	7.5
10	8.0	6.0	7.0	8.5	6.5	7.5	10.5	6.5	8.5	7.5	6.0	7.0
11	9.5	5.5	7.5	8.5	6.5	7.5	10.5	6.5	8.5	9.0	6.5	7.5
12	8.5	6.0	7.0	8.5	6.5	7.5	10.5	7.0	8.5	8.5	6.5	7.5
13	8.0	6.0	7.0	8.5	7.0	7.5	10.5	7.0	8.5	9.0	7.0	7.5
14	9.0	6.0	7.0	7.5	6.5	7.0	10.5	7.0	8.5	8.0	6.5	7.0
15	9.0	6.0	7.5	9.0	6.5	7.5	9.0	7.0	7.5	8.5	6.5	7.5
16	10.0	5.5	8.0	10.5	6.5	8.0	8.5	6.5	7.5	8.0	6.5	7.5
17	10.5	6.0	8.5	9.0	7.0	8.0	10.0	6.5	8.0	7.5	6.5	7.0
18	10.5	6.5	8.0	8.5	6.5	7.5	8.5	7.0	7.5	7.0	6.5	6.5
19	9.0	7.0	7.5	9.5	6.5	8.0	8.0	7.0	7.5	7.0	6.5	7.0
20	9.0	6.5	8.0	8.5	6.5	7.5	7.5	6.5	7.0	8.0	6.5	7.0
21	9.0	6.0	7.5	9.5	6.5	8.0	7.5	6.5	7.0	8.0	6.5	7.5
22	8.5	6.0	7.5	10.5	6.5	8.0	7.5	6.5	7.0	8.0	6.5	7.5
23	8.5	6.5	7.0	9.0	7.0	8.0	9.0	6.5	8.0	8.0	7.0	7.5
24	8.5	6.5	7.5	9.5	6.5	8.0	9.5	6.5	8.0	8.0	7.0	7.5
25	10.5	6.5	8.5	9.0	6.5	8.0	8.5	7.0	8.0	7.5	6.5	7.0
26	9.0	7.0	8.0	9.0	7.0	8.0	8.5	7.0	8.0	8.0	6.5	7.0
27	9.0	7.5	8.0	8.5	7.5	8.0	8.5	6.5	7.5	7.0	5.5	6.0
28	8.5	7.0	7.5	9.0	6.5	8.0	9.0	6.5	7.5	6.5	6.0	6.5
29	9.0	6.5	7.5	8.5	6.5	7.5	7.5	6.5	7.0	7.0	6.0	6.5
30	8.5	6.5	7.5	9.0	6.0	7.5	7.5	6.5	7.0	7.0	6.5	6.5
31	---	---	---	8.5	6.5	7.5	7.5	6.5	7.0	---	---	---
MONTH	10.5	5.0	7.5	10.5	6.0	7.5	10.5	6.5	7.7	9.0	5.5	7.1

## 15019990 TYEE LAKE OUTLET NEAR WRANGELL

LOCATION.--Lat 56°12'00", long 131°30'24", in SE<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec. 28, T. 65 S., R. 90 E. (Bradfield Canal A-5 quad), Hydrologic Unit 19010101, in Tongass National Forest, on left bank at outlet of Tyee Lake, 1.5 mi south of Bradfield Canal and 37 mi southeast of Wrangell, Alaska.

DRAINAGE AREA.--14.7 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1981 and June 1992 to current year. Records for November 1922 to September 1927 and August 1963 to October 1969, published as Tyee Creek at Mouth near Wrangell (station 15020100) are not equivalent owing to inflow between sites.

GAGE.--Water-stage recorder. Elevation of gage is 1,370 ft above sea level from topographic map. Prior to June 9, 1992, at site 500 ft downstream at datum 13.66 ft lower.

REMARKS.--No estimated daily discharges. Records fair, except for discharges below 10 ft<sup>3</sup>/s, which are poor. Water for power generation is diverted from Tyee Lake and discharged into Bradfield Canal. Diversion to hydropower plant began February 1984, and is not included in the discharge records.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005											
	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	13	20	17	145	0.00	0.00	93	225	143	77	220
2	103	19	78	11	141	0.00	0.00	82	217	147	63	213
3	77	39	192	6.7	109	0.00	0.00	76	201	164	54	190
4	64	129	171	3.7	77	0.00	0.00	77	184	264	68	159
5	213	118	136	1.8	50	0.00	0.00	78	169	331	78	129
6	388	93	103	0.64	27	0.00	0.00	83	161	359	91	121
7	518	71	73	0.00	14	0.00	0.00	92	174	379	86	196
8	446	53	51	0.00	8.1	0.00	0.00	104	190	340	72	252
9	364	36	37	0.00	4.9	0.00	0.00	117	205	284	59	219
10	337	23	25	0.00	3.4	1.1	0.00	136	211	282	48	178
11	311	15	16	0.00	2.3	7.8	0.00	165	220	248	38	142
12	269	10	11	0.00	1.4	12	0.00	188	214	202	30	112
13	390	13	7.2	0.00	0.57	12	0.00	218	205	168	24	102
14	339	42	6.0	0.00	0.00	11	0.00	291	209	186	20	96
15	271	65	5.6	0.00	0.00	9.2	0.00	371	209	265	16	79
16	212	67	36	0.00	0.00	7.2	0.00	360	202	240	12	61
17	161	56	88	0.00	0.00	5.0	0.00	332	198	202	8.4	49
18	120	41	179	0.00	0.00	3.2	0.00	299	207	179	6.9	147
19	85	29	415	0.00	0.00	1.6	0.00	285	221	152	52	220
20	59	35	366	0.00	0.00	0.66	0.00	291	217	126	104	235
21	40	157	291	0.00	0.00	0.20	0.00	288	202	112	173	203
22	28	156	226	8.1	0.00	0.00	0.00	274	176	98	235	165
23	19	126	192	39	0.00	0.00	0.00	250	153	80	258	132
24	14	103	204	78	0.00	0.00	0.00	239	148	69	207	119
25	10	85	192	73	0.00	0.00	2.1	226	138	58	163	131
26	7.0	68	152	83	0.00	0.00	18	218	128	48	172	113
27	4.5	53	116	116	0.00	0.00	62	228	122	63	159	90
28	3.4	40	90	136	0.00	0.00	102	230	119	88	139	213
29	11	31	66	133	---	0.00	112	231	136	83	113	345
30	14	23	45	135	---	0.00	106	226	151	70	119	361
31	12	---	28	163	---	0.00	---	224	---	77	190	---
TOTAL	5026.9	1809	3617.8	1004.94	583.67	70.96	402.10	6372	5512	5507	2935.3	4992
MEAN	162	60.3	117	32.4	20.8	2.29	13.4	206	184	178	94.7	166
MAX	518	157	415	163	145	12	112	371	225	379	258	361
MIN	3.4	10	5.6	0.00	0.00	0.00	0.00	76	119	48	6.9	49
AC-FT	9970	3590	7180	1990	1160	141	798	12640	10930	10920	5820	9900

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)#

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	156	51.7	20.8	10.0	1.80	0.18	3.89	94.2	266	178	105	186		
MAX	264	108	117	61.4	20.8	2.29	24.8	251	367	305	216	298		
(WY)	2000	1993	2005	2003	2005	2005	1993	2004	1999	1999	2000	2001		
MIN	66.1	5.10	0.00	0.00	0.00	0.00	0.00	0.00	176	55.2	19.2	41.5		
(WY)	2003	1997	1995	1993	1993	1993	1994	2002	1994	1998	2003	1993		

# See Period of Record; partial year was used in monthly statistics and break in record. Record for 1980 and 1981 water years, prior to diversion of 1984, not included.

## SOUTHEAST ALASKA

## 15019990 TYEE LAKE OUTLET NEAR WRANGELL—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005#	
ANNUAL TOTAL	39391.39		37833.67			
ANNUAL MEAN	108		104		89.1	
HIGHEST ANNUAL MEAN					113 2001	
LOWEST ANNUAL MEAN					56.5 1995	
HIGHEST DAILY MEAN	669	Sep 24	518	Oct 7	789	Oct 26 2003
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Jan 7	c0.00	Dec 30 1992
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Jan 7	0.00	Dec 30 1992
MAXIMUM PEAK FLOW			540	Oct 7	d975	Oct 26 1993
MAXIMUM PEAK STAGE			24.10	Oct 7	28.62	Oct 26 1993
INSTANTANEOUS LOW FLOW			f		f0.00	Dec 30 1992
ANNUAL RUNOFF (AC-FT)	78130		75040		64550	
10 PERCENT EXCEEDS	339		243		278	
50 PERCENT EXCEEDS	49		77		23	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

## PRIOR TO DIVERSION OF 1984

SUMMARY STATISTICS	WATER YEARS	1980 - 1981
ANNUAL MEAN	179	
HIGHEST ANNUAL MEAN	213	1981
LOWEST ANNUAL MEAN	146	1980
HIGHEST DAILY MEAN	1690	Oct. 7 1980
LOWEST DAILY MEAN	g1.4	Apr. 2 1980
ANNUAL SEVEN-DAY MINIMUM	2.0	Mar. 31 1980
INSTANTANEOUS PEAK FLOW	1910	Oct. 7 1980
INSTANTANEOUS PEAK STAGE	12.72	Oct. 7 1980
ANNUAL RUNOFF (AC-FT)	130000	
10 PERCENT EXCEEDS	457	
50 PERCENT EXCEEDS	86	
90 PERCENT EXCEEDS	11	

# See Period of Record; partial year was used in monthly statistics and break in record. Record for 1980 and 1981 water years, prior to diversion of 1984, not included.

a Jan. 1-14 and Feb. 5 to Apr. 23.

b Jan. 7-21, Feb. 14 to Mar. 9, and Mar. 22 to Apr. 24

c No flow many days during winter months most years.

d From rating extended above 400 cfs.

f Not determined, see lowest daily mean

g Apr. 2-3 1980.

## 15019990 TYEE LAKE OUTLET NEAR WRANGELL—Continued

## LAKE-STAGE RECORDS

PERIOD OF RECORD.--June of 1992 to September 2002 (fragmentary) during many winter months when lake level was below the point of zero flow at the outlet. 2003 to current year, the record is complete.

GAGE.--Water-stage recorder. Datum of gage is mean low low water (GPS survey of August 21, 2003 by USGS using NAD83) lake outlet at a datum of 1,368.80 ft above mean low low water at the point of zero flow.

REMARKS.--Lake outlet consists of large boulders and log jams with uncontrolled spillway at elevation 1368.80 ft. Water for power generation is diverted from Tyee lake and discharged into Bradfield Canal. Diversion to power plant began in February 1984.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1983.02 ft, October 26, 1993; minimum observed unknown until 2003 WY.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1378.25 ft, October 7, 2004; minimum 1364.61 ft, April 18, 2005.

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1373.15	1370.37	1370.69	1370.59	1373.29	1365.12	1366.44	1372.45	1374.53	1373.25	1372.05	1374.45
2	1372.55	1370.68	1371.97	1370.26	1373.22	1365.20	1366.25	1372.25	1374.40	1373.32	1371.77	1374.35
3	1372.06	1371.15	1374.02	1369.95	1372.65	1365.50	1366.07	1372.14	1374.16	1373.58	1371.58	1373.99
4	1371.79	1373.02	1373.70	1369.63	1372.06	1365.96	1365.92	1372.16	1373.91	1375.07	1371.87	1373.51
5	1374.30	1372.82	1373.13	1369.33	1371.48	1366.18	1365.75	1372.20	1373.67	1375.97	1372.08	1373.01
6	1376.69	1372.38	1372.55	1369.06	1370.92	1366.20	1365.61	1372.31	1373.55	1376.34	1372.33	1372.87
7	1378.25	1371.93	1371.98	1368.77	1370.45	1366.28	1365.49	1372.50	1373.75	1376.59	1372.24	1374.07
8	1377.41	1371.55	1371.52	1368.49	1370.07	1366.65	1365.39	1372.73	1374.00	1376.10	1371.96	1374.90
9	1376.40	1371.16	1371.17	1368.21	1369.78	1367.31	1365.35	1372.97	1374.22	1375.35	1371.69	1374.44
10	1376.05	1370.80	1370.86	1367.94	1369.58	1368.16	1365.34	1373.31	1374.32	1375.32	1371.44	1373.81
11	1375.71	1370.48	1370.55	1367.66	1369.42	1370.02	1365.33	1373.79	1374.44	1374.86	1371.21	1373.24
12	1375.14	1370.21	1370.26	1367.35	1369.26	1370.34	1365.25	1374.16	1374.36	1374.18	1371.00	1372.71
13	1376.73	1370.35	1369.99	1367.01	1369.03	1370.36	1365.13	1374.57	1374.23	1373.66	1370.84	1372.53
14	1376.08	1371.29	1369.89	1366.67	1368.75	1370.27	1365.00	1375.49	1374.29	1373.93	1370.71	1372.43
15	1375.17	1371.81	1369.85	1366.36	1368.45	1370.15	1364.87	1376.48	1374.29	1375.09	1370.55	1372.09
16	1374.32	1371.86	1371.01	1366.09	1368.19	1369.99	1364.78	1376.34	1374.18	1374.73	1370.33	1371.72
17	1373.55	1371.62	1372.27	1366.13	1367.94	1369.78	1364.70	1375.98	1374.12	1374.19	1370.09	1371.47
18	1372.86	1371.29	1373.77	1366.45	1367.68	1369.55	1364.61	1375.55	1374.26	1373.82	1369.97	1373.30
19	1372.22	1370.97	1377.03	1367.32	1367.43	1369.30	1364.76	1375.36	1374.46	1373.40	1371.41	1374.45
20	1371.69	1371.10	1376.42	1367.75	1367.19	1369.07	1365.14	1375.45	1374.41	1372.96	1372.57	1374.67
21	1371.26	1373.48	1375.44	1367.89	1366.93	1368.82	1365.64	1375.41	1374.18	1372.72	1373.73	1374.20
22	1370.96	1373.47	1374.53	1369.31	1366.66	1368.59	1366.34	1375.22	1373.78	1372.46	1374.66	1373.60
23	1370.65	1372.96	1374.03	1371.22	1366.40	1368.36	1366.98	1374.87	1373.41	1372.11	1374.99	1373.07
24	1370.42	1372.56	1374.21	1372.08	1366.14	1368.09	1367.95	1374.72	1373.33	1371.90	1374.25	1372.85
25	1370.23	1372.22	1374.02	1371.98	1365.89	1367.81	1369.29	1374.53	1373.16	1371.66	1373.57	1373.05
26	1369.97	1371.87	1373.40	1372.16	1365.63	1367.62	1370.56	1374.41	1373.00	1371.44	1373.71	1372.73
27	1369.73	1371.55	1372.78	1372.79	1365.40	1367.50	1371.78	1374.57	1372.89	1371.76	1373.52	1372.31
28	1369.59	1371.25	1372.31	1373.13	1365.22	1367.30	1372.57	1374.60	1372.85	1372.27	1373.18	1374.30
29	1370.26	1371.02	1371.83	1373.08	---	1367.04	1372.78	1374.61	1373.14	1372.17	1372.73	1376.15
30	1370.46	1370.81	1371.37	1373.12	---	1366.78	1372.68	1374.53	1373.37	1371.92	1372.84	1376.36
31	1370.36	---	1370.95	1373.58	---	1366.62	---	1374.50	---	1372.06	1373.99	---
MEAN	1373.10	1371.60	1372.50	1369.40	1368.75	1367.93	1366.79	1374.20	1373.89	1373.68	1372.22	1373.55
MAX	1378.25	1373.48	1377.03	1373.58	1373.29	1370.36	1372.78	1376.48	1374.53	1376.59	1374.99	1376.36
MIN	1369.59	1370.21	1369.85	1366.09	1365.22	1365.12	1364.61	1372.14	1372.85	1371.44	1369.97	1371.47

15024800 STIKINE RIVER NEAR WRANGELL  
(International gaging station)

LOCATION.--Lat 56°42'29", long 132°07'49", in SE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 35, T. 59 S., R. 84 E. (Petersburg C-1 quad), Hydrologic Unit 19010201, on right bank about 10 mi upstream from mouth near Point Rothsay, 11 mi west of Alaska-British Columbia boundary, and 18 mi northeast of Wrangell.

DRAINAGE AREA.--19,920 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--July 1976 to current year.

REVISED RECORDS.--WDR AK-78-1: Drainage area.

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

REMARKS.--Records fair except for estimated daily discharges during periods of ice effect. GOES satellite telemetry at station.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005											
	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48900	28700	18600	e12500	e9100	e9700	e11400	59700	152000	129000	90600	88900
2	45400	32800	31700	e11500	e8950	e10000	e11500	54700	149000	133000	86500	74100
3	44400	34600	58900	e10500	e8800	e10300	e11600	53300	149000	133000	87700	67600
4	43500	57300	42100	e10000	e8650	e10700	e12100	54500	146000	140000	97200	63600
5	68700	42900	28800	e9500	e8500	e11100	e12200	56400	142000	149000	108000	59400
6	94800	32300	e20500	e9000	e8500	e11500	e12300	58500	136000	147000	108000	63600
7	101000	26100	e17000	e8600	e8550	e11800	e12500	62700	135000	e140000	102000	92200
8	77400	22800	e14000	e8300	e8600	e12300	e12800	68100	145000	e132000	98300	111000
9	64100	20400	e13000	e7900	e8650	e12500	e13100	74200	152000	e129000	101000	96800
10	62500	e17500	e13000	e7500	e8700	e12700	e13700	82200	150000	e125000	109000	84900
11	61000	e16000	e15000	e7500	e8750	e12900	e14000	91700	144000	e124000	114000	74400
12	54300	e16000	e16000	e7700	e8600	e13000	e14600	99900	141000	121000	123000	70900
13	116000	e16400	e15000	e7900	e8500	e12900	e14200	106000	134000	117000	131000	74800
14	126000	e18000	e15000	e8100	e8400	e12700	e13600	115000	131000	116000	131000	81300
15	93300	e20500	e17000	e8300	e8300	e12500	13700	134000	136000	123000	128000	69800
16	74900	e21300	e24000	e8400	e8200	e12300	13600	137000	132000	121000	116000	62500
17	62500	20300	e34000	e8500	e8100	e12100	13700	134000	132000	121000	103000	57900
18	52900	18400	e41000	e8600	e8000	e11900	14100	131000	139000	132000	105000	80900
19	44600	16700	77800	e8700	e7900	e11700	17500	127000	149000	123000	135000	99400
20	37600	20100	54700	e8820	e7800	e11500	21100	128000	150000	110000	160000	78000
21	33000	53200	36900	e8900	e7900	e11400	22800	125000	147000	105000	138000	60000
22	30700	41500	28800	e8950	e8050	e11300	25600	120000	137000	105000	113000	50900
23	29000	29400	28000	e9000	e8200	e11200	28200	116000	125000	110000	99700	45500
24	27800	25900	38200	e9020	e8400	e10900	33200	118000	112000	110000	86800	48800
25	26800	24100	35200	e9050	e8600	e10900	41400	122000	107000	104000	86000	64200
26	25100	22600	e23200	e9080	e8800	e11000	50700	124000	113000	98800	97500	59000
27	24800	20700	e21000	e9120	e9100	e11100	61700	131000	121000	104000	97900	48800
28	25600	19300	e18000	e9150	e9400	e11200	72000	140000	129000	121000	85000	69300
29	33700	18700	e16000	e9170	---	e11200	74800	145000	132000	118000	80800	93900
30	35200	18500	e14500	e9200	---	e11300	68000	146000	133000	104000	83900	77100
31	30300	---	e13500	e9210	---	e11400	---	151000	---	94400	94700	---
TOTAL	1695800	773000	840400	277670	238000	359000	751700	3265900	4100000	3739200	3297600	2169500
MEAN	54700	25770	27110	8957	8500	11580	25060	105400	136700	120600	106400	72320
MAX	126000	57300	77800	12500	9400	13000	74800	151000	152000	149000	160000	111000
MIN	24800	16000	13000	7500	7800	9700	11400	53300	107000	94400	80800	45500
MED	45400	21000	21000	8950	8520	11400	14100	118000	137000	121000	102000	70300
AC-FT	3364000	1533000	1667000	550800	472100	712100	1491000	6478000	8132000	7417000	6541000	4303000
CFSM	2.75	1.29	1.36	0.45	0.43	0.58	1.26	5.29	6.86	6.06	5.34	3.63
IN.	3.17	1.44	1.57	0.52	0.44	0.67	1.40	6.10	7.66	6.98	6.16	4.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)#

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
MEAN	57240	24520	14420	11460	9149	10020	17010	68270	135200	134100	106900	79870																			
MAX	113300	58280	27110	39450	19080	42340	31960	119100	199900	163800	134200	128600																			
(WY)	1987	1979	2005	1981	1977	1992	1992	1993	1992	1985	1977	1981																			
MIN	30590	10010	5593	5958	5111	4719	7292	32260	103400	109100	76770	50760																			
(WY)	1986	1986	1997	1978	1999	1978	2002	1982	1978	1983	1995	1986																			

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1976 - 2005#			
ANNUAL TOTAL	21293400				21507770							
ANNUAL MEAN	58180				58930				55870			
HIGHEST ANNUAL MEAN									72870			
LOWEST ANNUAL MEAN									42100			
HIGHEST DAILY MEAN	199000				Jun 25				160000			
LOWEST DAILY MEAN	a5700				Feb 4				b7500			
ANNUAL SEVEN-DAY MINIMUM	5800				Feb 2				7840			
MAXIMUM PEAK FLOW					165000				Aug 20			
MAXIMUM PEAK STAGE					22.21				Aug 20			
ANNUAL RUNOFF (AC-FT)	42240000				42660000				40470000			
ANNUAL RUNOFF (CFSM)	2.92				2.96				2.80			
ANNUAL RUNOFF (INCHES)	39.76				40.17				38.10			
10 PERCENT EXCEEDS	138000				132000				136000			
50 PERCENT EXCEEDS	35800				42900				32000			
90 PERCENT EXCEEDS	7000				8800				7300			

# See Period of Record; partial year was used in monthly statistics

a Feb. 4-6

b Jan. 10 and 11

e Estimated

15041200 TAKU RIVER NEAR JUNEAU  
(International gaging station)

LOCATION.--Lat 58°32'19", long 133°42'00", in NE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec. 33, T. 38 S., R. 71 E. (Taku River C-6 quad), Hydrologic Unit 19010301, City and Borough of Juneau, in Tongass National Forest, on left bank, 1.5 mi upstream from Wright River, and 31 mi northeast of Juneau.

DRAINAGE AREA.--6,600 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1987 to current year.

REVISED RECORD.--WDR AK-98-1, 1987-1997; WDR AK-00-1 1989-90 (M), 1992-95 (M).

GAGE.--Water-stage recorder. Elevation of gage is 50 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 discharges greater than base discharge of 50,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 16	2030	51100	38.98	Jun 30	2145	81700*	42.34*
May 26	0630	53000	39.19	Aug 14	1515	67100	41.03

DISCHARGE, in CFS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16500	6900	5060	e2600	e2100	e2100	2660	19600	39400	48000	21000	19500
2	17500	7060	7090	e2400	e2000	e2200	2670	18200	37000	35400	20000	16300
3	16200	7740	9720	e2200	e2000	e2200	2680	17900	34900	34000	20000	14600
4	15500	9710	8230	e2100	e1900	e2250	2710	18800	34100	32400	22000	13900
5	18100	8430	e6600	e2200	e1900	e2300	2750	19200	34600	31000	26000	13600
6	18100	7300	e5800	e2200	e1800	e2300	2750	19400	33600	30300	25600	16000
7	16900	6230	e5300	e2100	e1800	e2350	2860	20900	34900	29800	23800	21300
8	15600	e5100	e4900	e2100	e1900	e2400	2930	23400	36600	27800	23300	23900
9	14800	e4600	e4500	e2100	e1900	e2450	3020	26200	37500	28400	23900	19900
10	14000	e4200	e4200	e2000	e1900	e2500	3160	30000	36600	30100	25000	16600
11	13000	e4100	e4100	e2000	e2000	e2550	3360	33600	34000	32600	27500	15600
12	11900	e4000	e4700	e2000	e2000	e2600	3530	38300	32500	32500	32100	15300
13	17200	e4100	e4500	e1900	e2000	e2600	3660	39700	32500	30800	43400	16100
14	20500	e4300	e4300	e1800	e2000	e2600	3870	42300	34400	29600	60500	16700
15	18300	5470	e4100	e1800	e2000	e2600	3920	47400	33000	28100	34900	15700
16	15700	5390	e4000	e1900	e2000	e2600	3970	50300	31900	28100	27800	15600
17	13500	5110	e4600	e1900	e2000	e2600	4100	49000	32900	31000	25100	18500
18	11800	4700	e6000	e2000	e2000	e2580	4370	43900	35500	35100	25800	25600
19	10200	4530	e8100	e2000	e1900	e2550	5280	41900	39000	31600	29500	21400
20	9160	5140	e6500	e2000	e1900	e2520	7020	41100	39400	27900	28400	16300
21	9030	7010	e5800	e2000	e2000	e2500	9170	40200	36900	25800	24400	13300
22	8550	6550	e5300	e2100	e2000	e2450	10800	38400	31500	24600	23000	11500
23	8240	5790	e7500	e2100	e2000	e2420	10400	38500	28100	25000	21100	11000
24	7790	5450	e11000	e2100	e2000	e2400	11900	40600	26200	25600	19500	13000
25	7480	5340	e10000	e2000	e2100	e2420	14400	44800	26600	25500	21000	16500
26	7210	5100	e8500	e2000	e2100	e2450	17500	48400	29000	24600	27000	14500
27	7300	4760	e6500	e2000	e2100	e2500	20800	41500	31000	26000	23400	11700
28	7590	4860	e5000	e2000	e2100	e2550	23000	42800	34600	29900	19400	13800
29	8430	5260	e3500	e2000	---	e2570	23700	41500	46800	28900	18500	16400
30	8270	5040	e3100	e2100	---	2580	22100	41400	72000	25600	19400	14400
31	7400	---	e2800	e2100	---	2620	---	41800	---	23000	22800	---
TOTAL	391750	169270	181300	63800	55400	76310	235040	1101000	1067000	919000	805100	488500
MEAN	12640	5642	5848	2058	1979	2462	7835	35520	35570	29650	25970	16280
MAX	20500	9710	11000	2600	2100	2620	23700	50300	72000	48000	60500	25600
MIN	7210	4000	2800	1800	1800	2100	2660	17900	26200	23000	18500	11000
AC-FT	777000	335700	359600	126500	109900	151400	466200	2184000	2116000	1823000	1597000	968900
CFSM	1.91	0.85	0.89	0.31	0.30	0.37	1.19	5.38	5.39	4.49	3.93	2.47
IN.	2.21	0.95	1.02	0.36	0.31	0.43	1.32	6.21	6.01	5.18	4.54	2.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)#

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	11670	4790	3568	2269	1937	2479	4528	20900	34380	31850	26260	18830						
MAX	17250	8633	6613	4223	3682	10500	7835	35520	49280	41080	33330	26550						
(WY)	1992	1994	2000	2000	1992	1992	2005	2005	1992	1992	2002	1994						
MIN	6265	2488	1256	1125	1041	1359	1870	9652	23170	25040	18610	11180						
(WY)	1997	1997	1997	1988	1999	1991	2002	2001	1995	1996	1995	1992						

# See Period of Record; partial year was used in monthly statistics  
e Estimated



## SOUTHEAST ALASKA

## 15041200 TAKU RIVER NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005#	
ANNUAL TOTAL	5757300		5553470			
ANNUAL MEAN	15730		15210		13690	
HIGHEST ANNUAL MEAN					16820	1992
LOWEST ANNUAL MEAN					10800	1996
HIGHEST DAILY MEAN	113000	Jun 25	72000	Jun 30	113000	Jun 25 2004
LOWEST DAILY MEAN	a1500	Feb 3	b1800	Jan 14	710	Feb 12 1988
ANNUAL SEVEN-DAY MINIMUM	1540	Jan 31	1870	Feb 4	721	Feb 8 1988
MAXIMUM PEAK FLOW			c81700	Jun 30	c128000	Jun 25 2004
MAXIMUM PEAK STAGE			42.34	Jun 30	45.07	Jun 25 2004
ANNUAL RUNOFF (AC-FT)	11420000		11020000		9916000	
ANNUAL RUNOFF (CFSM)	2.38		2.31		2.07	
ANNUAL RUNOFF (INCHES)	32.45		31.30		28.18	
10 PERCENT EXCEEDS	37800		35000		33400	
50 PERCENT EXCEEDS	8350		10000		7380	
90 PERCENT EXCEEDS	2000		2000		1700	

# See Period of Record; partial year was used in monthly statistics

a Feb. 3-6

b Jan. 14 and 15; Feb. 6 and 7

c Result of Tulsequah River glacier dam breakout

15041200 TAKU RIVER NEAR JUNEAU—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1999 to current year(discontinued).

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

REMARKS.- Record from June 15 to September 30 missing due to damaged temperature probe. Records represent water temperature at the sensor within 0.5°C. Temperature was compared with the stream average by cross section on March 24. No variation was found within the cross section. The variation found between mean stream temperature and sensor temperature was less than 0.5°C. The outburst peak of the lake dammed by Tulsequah Glacier occurred on June 30, 2005.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 12.5°C, July 14, 1999, July 20 and 21, 2001, July 9-10,12-13, and 18, 2003, June 18 and July 16, 2004; minimum, 0.0°C, many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 10.0°C, June 7-9,13, 2005; minimum, 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking downstrm ft from l bank (00009)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
MAR						
24...	1252	80.0	10.0	2390	1.0	5.0
24...	1253	80.0	20.0	2390	1.0	5.0
24...	1254	80.0	30.0	2390	1.0	5.0
24...	1255	80.0	40.0	2390	1.0	5.0
24...	1256	80.0	50.0	2390	1.0	5.0
24...	1257	80.0	60.0	2390	1.0	5.0

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.5	6.5	2.0	1.5	1.5	2.5	2.0	2.0	0.0	0.0	0.0
2	7.0	6.5	7.0	2.0	1.5	1.5	2.5	2.0	2.5	0.0	0.0	0.0
3	7.0	6.0	6.5	2.5	2.0	2.5	2.0	1.5	2.0	0.0	0.0	0.0
4	7.0	6.0	6.5	2.5	2.0	2.0	1.5	0.0	1.0	0.0	0.0	0.0
5	6.0	5.5	6.0	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
6	6.0	5.0	5.5	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
7	5.5	5.0	5.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
8	5.5	5.0	5.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
9	6.0	5.0	5.5	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
10	6.0	5.0	5.5	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
11	5.5	4.5	5.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
12	4.5	3.5	4.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
13	5.5	3.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	5.5	5.0	5.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
15	5.5	5.0	5.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
16	5.0	3.5	4.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
17	4.0	3.5	4.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
18	3.5	1.5	2.5	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
19	1.5	0.5	0.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
20	1.0	0.5	1.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1.0	0.5	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.5	0.5	1.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1.5	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
24	1.0	0.5	0.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
25	1.5	0.5	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
26	1.5	1.0	1.5	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
27	2.5	1.5	2.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3.0	2.0	2.5	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
29	3.0	2.5	3.0	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
30	3.0	2.5	2.5	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
31	2.5	2.0	2.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	7.0	0.5	3.7	2.5	0.0	0.9	2.5	0.0	0.3	0.0	0.0	0.0



15050000 GOLD CREEK AT JUNEAU

LOCATION.--Lat 58°18'25", long 134°24'05", in NW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 23, T. 41 S., R. 67 E. (Juneau B-2 SE quad), City and Borough of Juneau, Hydrologic Unit 19010301, on left bank, 150 ft upstream from Alaska Electric Light and Power Company dam and diversion, 0.5 mi northeast of Juneau, and 1 mi upstream from mouth at Gastineau Channel.

DRAINAGE AREA.--9.76 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1916 to December 1920 (monthly discharge only), October 1946 to September 1948, October 1949 to September 1982. Annual maximums, water years 1991, 1994, 1996. October 1997 to current year.

REVISED RECORDS.--WSP 1372: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 245 ft above sea level, from topographic map. July 20, 1916 to December 31, 1920, at site 50 ft upstream at different datum. September 11, 1946 to September 30, 1948, nonrecording gage at site 0.7 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. GOES satellite telemetry at station. Water may be diverted about 0.5 mi upstream and three wells, located upstream from the gage in Last Chance Basin, pump water for municipal use and may decrease flow during winter periods.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
July 27	2200	923	4.36	Sept. 18	1845	1030	4.56
Aug. 25	1730	949	4.41	Sept. 19	0645	*1550	*5.48
Sept. 06	1815	917	4.35	Sept. 29	0800	1330	5.11

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	77	104	36	26	71	18	131	120	154	91	244
2	212	92	235	33	19	88	17	114	114	237	79	135
3	123	234	205	29	17	75	16	110	109	238	123	99
4	285	136	105	27	e15	76	16	107	175	178	417	83
5	306	85	71	25	e12	66	16	107	157	147	519	103
6	226	66	57	23	e10	51	17	116	141	135	207	546
7	258	49	48	22	e9.0	41	18	144	149	121	133	384
8	242	36	40	20	e13	57	17	158	161	107	111	185
9	195	28	39	19	16	81	19	183	163	110	104	115
10	207	22	36	18	18	158	22	208	145	e111	94	98
11	128	20	38	e17	18	126	22	217	133	97	83	87
12	223	19	44	e16	15	88	23	207	117	89	78	96
13	268	30	36	e16	e14	75	23	235	120	110	74	123
14	126	61	45	e15	e13	63	24	433	130	112	69	76
15	112	100	43	e14	11	53	23	349	112	126	60	63
16	88	93	209	e13	11	44	22	209	107	98	51	61
17	73	70	226	e12	11	39	23	181	151	384	46	286
18	56	57	380	e12	10	34	27	168	167	263	190	561
19	43	62	217	e11	e9.7	30	145	180	164	130	107	910
20	35	404	119	e10	e9.2	27	160	182	147	102	97	493
21	30	322	85	e10	e9.0	25	222	184	138	167	104	344
22	26	121	91	e10	11	23	163	167	107	109	194	200
23	22	84	532	e10	15	22	164	168	107	92	95	367
24	21	69	601	e10	13	20	228	172	106	92	87	431
25	19	59	199	e10	13	19	240	144	108	93	319	219
26	17	56	112	e11	15	19	267	169	115	172	203	149
27	26	50	87	e12	22	21	406	193	126	510	113	138
28	90	55	71	e12	42	20	417	150	186	330	87	418
29	206	59	54	12	---	18	289	144	197	187	134	884
30	90	53	44	23	---	17	177	180	130	132	235	576
31	69	---	40	30	---	20	---	146	---	112	285	---
TOTAL	4114	2669	4213	561	416.9	1567	3241	5556	4102	5045	4589	8474
MEAN	133	89.0	136	18.1	14.9	50.5	108	179	137	163	148	282
MAX	306	404	601	36	42	158	417	433	197	510	519	910
MIN	17	19	36	10	9.0	17	16	107	106	89	46	61
MED	112	62	85	16	13	41	23	169	131	126	104	192
AC-FT	8160	5290	8360	1110	827	3110	6430	11020	8140	10010	9100	16810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2005, BY WATER YEAR (WY)#

	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	158	81.9	39.5	23.2	15.2	13.3	27.0	128	223	223	187	187																																																																														
MAX	349	206	202	170	81.4	137	108	220	326	364	374	302																																																																														
(WY)	2000	1947	2000	1981	1977	1947	2005	1948	2002	1975	1961	1999																																																																														
MIN	62.6	18.1	6.22	1.71	0.48	0.05	3.78	64.5	121	111	51.7	73.7																																																																														
(WY)	1952	1976	1956	1974	1972	1974	1954	1920	2003	2003	2004	1978																																																																														

# See Period of Record; partial years used in monthly statistics and break in record  
e Estimated

## SOUTHEAST ALASKA

## 15050000 GOLD CREEK AT JUNEAU—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1916 - 2005#	
ANNUAL TOTAL	40819		44547.9			
ANNUAL MEAN	112		122		109	
HIGHEST ANNUAL MEAN					155 2000	
LOWEST ANNUAL MEAN					77.5 1951	
HIGHEST DAILY MEAN	688 Sep 23		910 Sep 19		1830 Aug 12 1961	
LOWEST DAILY MEAN	a10 Mar 22		b9.0 Feb 7		c0.00 Mar 4 1951	
ANNUAL SEVEN-DAY MINIMUM	11 Mar 18		10 Feb 15		0.00 Mar 4 1951	
MAXIMUM PEAK FLOW			1550 Sep 19		2950 Sep 25 1996	
MAXIMUM PEAK STAGE			5.48 Sep 19		8.14 Sep 25 1996	
INSTANTANEOUS LOW FLOW			9.0 Feb 7		0.00 Mar 4 1951	
ANNUAL RUNOFF (AC-FT)	80960		88320		79160	
10 PERCENT EXCEEDS	250		250		264	
50 PERCENT EXCEEDS	78		93		68	
90 PERCENT EXCEEDS	17		16		5.0	

# See Period of Record; partial years used in monthly statistics and break in record

a Mar. 22-24

b Feb. 7 and 21

c No flow at times during winter

15051010 SALMON CREEK NEAR JUNEAU

LOCATION.--Lat 58°19'57", long 134°27'57", in NE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec. 9, T. 41 S., R. 67 E. (Juneau B-2 SE quad), City and Borough of Juneau, Hydrologic Unit 19010301, in Tongass National Forest, on left bank, about 0.3 mi upstream from mouth and 2.5 mi northwest of Juneau.

DRAINAGE AREA.--9.69 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1990 to current year. Daily discharge record previously collected 0.5 mi upstream at station number 15051008 "above canyon mouth" during water-years 1982-90. Drainage area, 9.50 mi<sup>2</sup>.

REVISED RECORDS.--WDR AK 93-1: 1991 (m).

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges which are poor. Flow regulated by Salmon Creek Reservoir 2.5 mi upstream. Diversions upstream for off-stream hydropower plant; outflow from the plant goes into Gastineau Channel and is not included in the discharge records. Diversions upstream into Twin Lakes via a pipeline are also not included in the discharge records.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	e22	e27	e21	28	66	12	31	32	31	25	66
2	54	e22	e59	20	19	61	11	28	31	44	21	42
3	40	e54	e64	19	15	47	11	29	30	49	32	32
4	52	e43	e40	17	13	53	12	30	49	37	72	27
5	65	e28	e33	17	e12	42	12	29	39	29	93	26
6	55	e22	e28	16	e12	32	12	30	36	26	59	92
7	59	e17	e26	15	e11	27	11	36	37	23	38	92
8	67	e14	e24	14	e12	37	11	38	39	19	30	60
9	55	e12	e22	13	e19	47	12	42	39	20	26	40
10	52	e10	e21	e13	e20	87	14	48	36	20	23	33
11	42	e9.7	25	e11	e16	61	13	56	35	17	20	30
12	54	e9.1	35	e9.0	e14	44	13	56	31	15	19	29
13	66	e11	26	e8.0	13	39	13	62	32	17	18	36
14	43	e17	39	e7.8	12	33	13	98	34	18	17	28
15	39	e26	32	e7.7	11	28	12	72	31	21	15	25
16	33	e27	123	e7.5	11	24	12	50	28	16	14	23
17	28	e23	102	e7.6	12	21	12	47	34	47	14	59
18	23	e19	137	e7.8	11	18	14	45	37	45	28	117
19	20	e11	88	e8.5	10	16	80	49	35	27	32	219
20	19	e81	58	9.4	9.7	15	59	46	31	20	28	104
21	18	e91	42	10	9.4	14	77	47	33	41	27	101
22	17	e49	49	22	12	14	53	43	24	28	42	68
23	15	e30	180	18	32	13	44	43	24	21	29	85
24	16	e24	194	14	21	13	57	44	21	18	24	86
25	15	e22	77	13	19	12	58	37	20	17	67	69
26	13	e20	50	12	20	12	57	42	21	30	56	55
27	e20	e18	41	11	27	14	69	47	23	98	34	54
28	e30	e19	38	10	48	13	76	38	34	87	26	114
29	e49	e21	29	11	---	12	61	37	35	55	29	228
30	e32	e18	e25	29	---	12	39	49	24	36	52	144
31	e22	---	e22	32	---	14	---	38	---	31	64	---
TOTAL	1171	789.8	1756	431.3	469.1	941	950	1387	955	1003	1074	2184
MEAN	37.8	26.3	56.6	13.9	16.8	30.4	31.7	44.7	31.8	32.4	34.6	72.8
MAX	67	91	194	32	48	87	80	98	49	98	93	228
MIN	13	9.1	21	7.5	9.4	12	11	28	20	15	14	23
AC-FT	2320	1570	3480	855	930	1870	1880	2750	1890	1990	2130	4330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	59.6	30.2	28.9	19.3	21.2	17.1	23.9	47.4	52.5	42.6	36.8	61.8			
MAX	131	76.9	69.5	33.5	45.0	39.0	38.6	71.3	82.9	69.0	76.1	108			
(WY)	1999	1994	2000	1992	1992	1992	1994	1992	1991	1997	2002	1991			
MIN	33.0	16.3	12.7	9.65	9.16	8.91	9.52	29.0	31.7	21.9	15.1	41.0			
(WY)	2004	1991	1997	1997	1999	2003	2002	2003	2003	2003	2004	1997			

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1991 - 2005

ANNUAL TOTAL	12378.0	13111.2		
ANNUAL MEAN	33.8	35.9	36.8	
HIGHEST ANNUAL MEAN			48.6	1992
LOWEST ANNUAL MEAN			29.7	1995
HIGHEST DAILY MEAN	194	Dec 24	228	Sep 29
LOWEST DAILY MEAN	9.0	Mar 24	7.5	Jan 16
ANNUAL SEVEN-DAY MINIMUM	9.6	Jan 4	7.8	Jan 13
MAXIMUM PEAK FLOW			321	Sep 19
MAXIMUM PEAK STAGE			3.01	Sep 19
INSTANTANEOUS LOW FLOW			b	b
ANNUAL RUNOFF (AC-FT)	24550	26010	26690	
10 PERCENT EXCEEDS	58	66	70	
50 PERCENT EXCEEDS	26	28	27	
90 PERCENT EXCEEDS	12	12	10	

a From flood marks  
b Undetermined, see lowest daily mean  
e Estimated



## 15052000 LEMON CREEK NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005#	
ANNUAL TOTAL	67019.6		77724.4			
ANNUAL MEAN	183		213		160	
HIGHEST ANNUAL MEAN					213 2005	
LOWEST ANNUAL MEAN					122 1952	
HIGHEST DAILY MEAN	1360	Jul 28	1400	Sep 18	2660	Aug 13 1961
LOWEST DAILY MEAN	a6.0	Mar 18	b9.0	Feb 5	0.70	Feb 13 1966
ANNUAL SEVEN-DAY MINIMUM	6.1	Mar 17	9.4	Feb 16	0.73	Feb 13 1966
MAXIMUM PEAK FLOW			2240	Sep 18	c5900	Oct 20 1998
MAXIMUM PEAK STAGE			11.23	Sep 18	d	
ANNUAL RUNOFF (AC-FT)	132900		154200		115600	
ANNUAL RUNOFF (CFSM)	14.9		17.3		13.0	
ANNUAL RUNOFF (INCHES)	202.69		235.07		176.24	
10 PERCENT EXCEEDS	485		519		442	
50 PERCENT EXCEEDS	63		98		45	
90 PERCENT EXCEEDS	9.9		12		4.5	

# See Period of Record; partial years were used in monthly statistics and break in record

a Mar. 18-22

b Feb. 5, 6, and 21

c From rating curve extended above 1,200 ft<sup>3</sup>/s, from flood marks, at datum then in use

d Not determined



## 15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY

LOCATION.--Lat 58°21'59", long 134°34'34", in SW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 30, T. 40 S., R. 66 (Juneau B-2 SW quad), Hydrologic Unit 19010301, City and Borough of Juneau on right bank at downstream side of footbridge, 50 ft downstream from Egan Drive, 0.4 mi southeast of intersection of Egan Drive and Mendenhall Loop Road and 3 mi east of Auke Bay Post Office.

DRAINAGE AREA.--2.60 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year. Prior to October 1996, published as miscellaneous site 15052482 Jordan Creek at Trout Street Bridge near Auke Bay, at site about 500 ft downstream at different datum.

GAGE.--Water-stage recorder. Datum of gage is 19.80 ft above sea level, determined by levels survey.

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

EXTEREMES OUTSIDE PERIOD OF DAILY RECORD.--Flood of September 25, 1996, reached a stage of 4.34 ft, site and datum then in use, from floodmarks, discharge 140 ft<sup>3</sup>/s; no flow observed March 2, 1989, March 5, 1996, and January 15, 1997.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	9.5	20	7.7	e9.0	26	4.0	4.4	0.88	0.27	2.4	11
2	7.7	14	33	6.3	e6.0	19	3.9	4.2	0.70	0.87	2.1	8.2
3	5.0	30	31	5.8	e4.5	16	3.8	3.9	0.60	0.94	2.4	6.5
4	8.1	23	17	4.8	e3.5	19	3.8	3.8	1.9	1.6	4.1	5.6
5	14	11	12	4.5	e2.8	18	3.5	3.3	1.5	0.92	11	5.7
6	8.5	7.5	9.5	e3.5	e2.5	14	3.6	3.2	0.84	0.66	6.5	14
7	9.7	6.4	8.2	e3.0	e2.4	15	3.3	3.2	0.84	0.43	3.8	31
8	13	5.5	7.1	e2.5	e6.0	17	2.9	3.1	0.36	0.28	3.1	22
9	15	5.0	6.5	e2.0	e13	20	3.0	3.1	0.26	0.21	2.7	12
10	11	4.0	6.0	e1.8	e11	37	3.5	3.0	0.18	0.14	2.4	9.3
11	7.7	3.3	7.1	e1.1	e9.0	38	3.2	2.9	0.12	0.00	2.1	8.9
12	11	2.8	10	e0.95	e7.5	29	3.2	2.8	0.00	0.00	1.9	8.0
13	17	2.9	7.3	e0.80	e6.0	26	3.0	2.7	0.12	0.00	1.8	13
14	7.8	3.0	11	e0.68	e5.3	20	2.9	3.3	0.00	0.00	1.6	8.3
15	7.3	2.9	7.6	e0.60	e4.8	15	2.8	3.2	0.10	0.18	1.5	7.0
16	6.1	3.9	23	e0.90	e4.4	11	2.5	2.6	0.00	0.00	1.4	6.6
17	5.2	3.7	19	e1.5	4.1	9.1	2.5	2.3	0.00	1.3	1.2	12
18	4.4	3.0	29	e1.2	3.7	7.8	2.9	2.0	0.00	3.7	3.0	17
19	3.8	7.4	39	e0.95	3.2	6.9	12	1.9	0.00	1.4	6.0	36
20	3.4	28	26	e0.80	2.9	6.2	10	1.8	0.00	0.91	5.9	31
21	3.2	37	15	e0.90	2.7	5.6	14	1.6	0.84	3.6	4.4	35
22	3.4	16	20	e1.5	4.6	5.1	10	1.5	0.45	2.6	10	20
23	2.3	12	50	e4.0	13	4.7	8.0	1.4	0.23	1.5	5.1	29
24	3.3	15	49	e3.1	8.3	4.3	9.5	1.4	0.16	1.2	3.8	29
25	2.8	14	28	e2.5	7.4	4.0	10	1.3	0.00	1.1	11	21
26	1.9	19	16	e2.8	6.4	3.9	9.3	1.2	0.00	1.9	15	15
27	6.2	17	12	e3.5	7.7	4.3	8.9	1.2	0.00	9.8	6.5	14
28	8.8	15	13	e3.2	14	4.5	8.1	1.1	0.00	11	4.8	21
29	30	11	9.5	e3.0	---	5.0	6.7	1.1	0.64	4.8	5.2	32
30	13	11	e9.0	e4.5	---	3.8	5.2	1.3	0.29	3.2	17	32
31	8.1	---	e8.5	e6.4	---	4.9	---	1.1	---	2.7	15	---
TOTAL	257.7	343.8	559.3	86.78	175.7	420.1	170.0	74.9	11.01	57.21	164.7	521.1
MEAN	8.31	11.5	18.0	2.80	6.28	13.6	5.67	2.42	0.37	1.85	5.31	17.4
MAX	30	37	50	7.7	14	38	14	4.4	1.9	11	17	36
MIN	1.9	2.8	6.0	0.60	2.4	3.8	2.5	1.1	0.00	0.00	1.2	5.6
AC-FT	511	682	1110	172	349	833	337	149	22	113	327	1030
CFSM	3.20	4.41	6.94	1.08	2.41	5.21	2.18	0.93	0.14	0.71	2.04	6.68
IN.	3.69	4.92	8.00	1.24	2.51	6.01	2.43	1.07	0.16	0.82	2.36	7.46

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	15.1	8.42	11.0	6.28	4.05	4.45	5.09	6.18	3.75
MAX	23.2	11.5	20.8	11.3	9.60	13.6	12.1	13.7	10.2
(WY)	2003	2005	2000	1999	2004	2005	1999	1999	2000
MIN	6.25	4.21	2.67	2.80	0.47	1.62	0.72	1.70	0.37
(WY)	2004	1999	1999	2005	1999	1998	2002	2003	2005

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

## 15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	2488.95		2842.30			
ANNUAL MEAN	6.80		7.79		7.34	
HIGHEST ANNUAL MEAN					9.87 2000	
LOWEST ANNUAL MEAN					5.29 2004	
HIGHEST DAILY MEAN					129 Dec 28 1999	
LOWEST DAILY MEAN	a0.00	Jul 2	b0.00	Jun 12	c0.00 Mar 3 1999	
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 10	0.01	Jun 14	0.00 Mar 3 1999	
MAXIMUM PEAK FLOW			64 Dec 23		149 Dec 28 1999	
MAXIMUM PEAK STAGE			6.06 Dec 23		7.59 Dec 28 1999	
INSTANTANEOUS LOW FLOW			d0.00 Jun 12		0.00 Mar 3 1999	
ANNUAL RUNOFF (AC-FT)	4940		5640		5320	
ANNUAL RUNOFF (CFSM)	2.62		3.00		2.82	
ANNUAL RUNOFF (INCHES)	35.61		40.67		38.37	
10 PERCENT EXCEEDS	16		19		17	
50 PERCENT EXCEEDS	4.6		4.5		4.6	
90 PERCENT EXCEEDS	0.00		0.67		0.90	

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

a July 2-4, 7, 8, 10-24, 26, Aug. 7-10, 13-26, 31, and Sept. 1

b June 12, 14, 16-20, 25-28, and July 11-14, 16

c Occurs on many days throughout period of record.

d June 11-20, 24-28; July 11-17



## 15052500 MENDENHALL RIVER NEAR AUKE BAY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005#	
ANNUAL TOTAL	494510		521779			
ANNUAL MEAN	1351		1430		1182	
HIGHEST ANNUAL MEAN					1547	
LOWEST ANNUAL MEAN					758	
HIGHEST DAILY MEAN	8410	Jul 29	6700	Sep 8	13700	Sep 8 1981
LOWEST DAILY MEAN	63	Mar 24	53	Feb 21	19	Mar 1 1969
ANNUAL SEVEN-DAY MINIMUM	70	Mar 19	60	Feb 16	19	Mar 5 1974
MAXIMUM PEAK FLOW			7260	Sep 8	16000	Sep 11 1995
MAXIMUM PEAK STAGE			7.74	Sep 8	a11.18	Sep 11 1995
INSTANTANEOUS LOW FLOW			52	Sep 8	b19	Mar 1 1969
ANNUAL RUNOFF (AC-FT)	980900		1035000		856600	
ANNUAL RUNOFF (CFSM)	15.9		16.8		13.9	
ANNUAL RUNOFF (INCHES)	216.17		228.09		188.78	
10 PERCENT EXCEEDS	3570		3550		3250	
50 PERCENT EXCEEDS	498		743		400	
90 PERCENT EXCEEDS	113		93		50	

# See Period of Record; partial years used in monthly statistics and break in record

a From flood marks

b Mar. 1-3, 1969, and Mar. 7-11, 1974



## 15052800 MONTANA CREEK NEAR AUKE BAY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005#	
ANNUAL TOTAL	38077		41404.0			
ANNUAL MEAN	104		113		103	
HIGHEST ANNUAL MEAN					131 1975	
LOWEST ANNUAL MEAN					80.8 1971	
HIGHEST DAILY MEAN	938 Jan 14		795 Sep 19		1350 Sep 29 1970	
LOWEST DAILY MEAN	a11 Jan 7		b9.0 Jan 15		3.4 Feb 8 1972	
ANNUAL SEVEN-DAY MINIMUM	12 Jan 4		10 Jan 12		3.5 Jan 13 1974	
MAXIMUM PEAK FLOW			1300 Sep 19		3800 Oct 20 1998	
MAXIMUM PEAK STAGE			15.01 Sep 19		17.36 Oct 20 1998	
INSTANTANEOUS LOW FLOW			c		3.2 Feb 8 1972	
ANNUAL RUNOFF (AC-FT)	75530		82120		74800	
ANNUAL RUNOFF (CFSM)	7.38		8.05		7.32	
ANNUAL RUNOFF (INCHES)	100.46		109.24		99.49	
10 PERCENT EXCEEDS	199		239		221	
50 PERCENT EXCEEDS	76		86		75	
90 PERCENT EXCEEDS	24		26		15	

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

a Jan. 7-9

b Jan. 15 and 16

c Not determined, see lowest daily mean

## 15055500 ANTLER RIVER BELOW ANTLER LAKE NEAR AUKE BAY

LOCATION.--Lat 58°51'07", long 134°42'31", in NE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 10, T. 35 S., R. 64 E. (Juneau D-3 quad), Hydrologic Unit 19010301, in Tongass National Forest, 200 ft below outlet of Antler Lake, 10 mi northeast of Berners Bay, and located 32 mi northwest of Auke Bay.

DRAINAGE AREA.--26.0 mi<sup>2</sup>, approximately.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	82	56	55	32	48	31	207	289	312	177	222
2	217	83	80	49	33	67	32	181	271	307	160	190
3	203	105	119	44	32	78	31	166	254	288	160	164
4	208	138	112	40	30	83	29	158	264	266	192	148
5	335	122	96	38	28	92	29	151	268	244	247	136
6	322	103	81	35	26	88	29	151	267	234	243	175
7	285	88	70	33	25	81	29	164	285	222	214	230
8	234	77	60	31	26	81	29	187	299	214	202	261
9	205	68	54	28	27	90	29	e215	317	214	202	231
10	187	60	51	27	31	129	30	e234	314	218	204	196
11	162	54	48	25	33	160	30	e255	295	214	208	176
12	142	49	59	23	31	142	31	e275	279	206	217	162
13	218	48	57	22	30	126	33	e300	268	199	230	163
14	209	49	55	21	28	113	35	e320	283	193	234	154
15	176	52	52	20	27	100	35	e350	277	195	218	140
16	146	58	73	20	26	87	35	e340	273	202	197	128
17	120	57	132	20	24	77	34	305	299	248	179	136
18	96	54	158	22	23	67	35	284	346	290	185	223
19	82	54	172	24	22	58	51	289	384	262	209	294
20	71	68	147	25	21	51	83	285	364	236	205	277
21	63	114	120	24	20	46	132	284	333	212	182	233
22	57	109	102	26	20	42	167	280	286	e210	193	193
23	51	95	141	31	21	39	163	282	247	e190	179	177
24	48	85	243	30	21	36	198	285	226	e185	165	190
25	45	76	213	29	21	35	242	271	230	e180	250	213
26	41	69	161	28	21	34	279	275	252	171	351	196
27	43	62	128	28	24	34	300	318	272	190	287	175
28	49	57	109	27	31	34	317	321	313	261	231	296
29	89	56	89	26	---	33	295	312	333	248	197	376
30	97	54	74	26	---	30	248	311	322	215	201	323
31	89	---	63	28	---	30	---	305	---	192	239	---
TOTAL	4473	2246	3175	905	734	2211	3041	8061	8710	7018	6558	6178
MEAN	144	74.9	102	29.2	26.2	71.3	101	260	290	226	212	206
MAX	335	138	243	55	33	160	317	350	384	312	351	376
MIN	41	48	48	20	20	30	29	151	226	171	160	128
AC-FT	8870	4450	6300	1800	1460	4390	6030	15990	17280	13920	13010	12250
CFSM	5.55	2.88	3.94	1.12	1.01	2.74	3.90	10.0	11.2	8.71	8.14	7.92
IN.	6.40	3.21	4.54	1.29	1.05	3.16	4.35	11.53	12.46	10.04	9.38	8.84

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	162	66.5	73.5	40.9	30.9	27.7	49.8	164	307
MAX	240	97.9	134	69.5	73.0	71.3	101	260	368
(WY)	1999	2003	2000	2003	2004	2005	2005	2004	2000
MIN	104	39.4	30.6	21.2	11.5	14.6	14.5	90.1	222
(WY)	1998	2002	2002	1999	1999	1999	2002	2001	2003

## SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1997 - 2005#
ANNUAL TOTAL	53162	53310	
ANNUAL MEAN	145	146	135
HIGHEST ANNUAL MEAN			147
LOWEST ANNUAL MEAN			121
HIGHEST DAILY MEAN	695	Sep 24	993
LOWEST DAILY MEAN	21	Jan 12	7.8
ANNUAL SEVEN-DAY MINIMUM	23	Jan 7	8.0
MAXIMUM PEAK FLOW			b1300
MAXIMUM PEAK STAGE			31.80
INSTANTANEOUS LOW FLOW			c19
ANNUAL RUNOFF (AC-FT)	105400	105700	97660
ANNUAL RUNOFF (CFSM)	5.59	5.62	5.18
ANNUAL RUNOFF (INCHES)	76.06	76.27	70.45
10 PERCENT EXCEEDS	301	289	300
50 PERCENT EXCEEDS	105	141	93
90 PERCENT EXCEEDS	34	28	20

- # See Period of Record; partial year was used in monthly statistics.  
a Jan. 15-17, and Feb. 21-22  
b From rating curve extended above 600 cfs on basis of slope-area measurement at gage height 34.07 ft.  
c Jan. 16-17  
e Estimated

15056030 KAKUHAN CREEK NEAR HAINES

LOCATION.--Lat 59°00'19", long 135°11'02", in SW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 14, T. 33 S., R. 61 E. (Skagway A-1 quad), Hydrologic Unit 19010301, in Tongass National Forest, about 500 ft upstream from mouth on east side of Lynn Canal, 19 mi southeast of Haines, and 60 mi northwest of Juneau.

DRAINAGE AREA.--1.53 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above sea level, from topographic map. May 15, 2003 to October 2004, at a site 300 ft upstream at a different datum.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
July 17	0830	*83	*8.33	Aug. 18	0900	61	8.14
Aug. 04	0415	73	8.22	Aug. 25	0500	81	8.27
Aug. 13	1815	79	8.26	Sept. 18	1645	69	8.26

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	3.0	2.4	e1.9	1.2	2.5	1.0	8.1	19	24	17	25
2	8.7	3.2	3.2	e1.9	e1.1	2.9	e1.1	8.2	19	25	19	19
3	5.9	6.2	2.7	e1.8	e1.0	2.0	1.00	8.4	18	25	40	16
4	20	3.8	2.1	e1.8	e0.95	1.8	1.0	8.1	20	26	56	16
5	36	3.1	1.9	1.8	e0.90	1.8	1.1	8.0	17	22	48	19
6	21	3.1	e1.6	1.7	e0.95	1.6	1.2	9.9	18	23	40	28
7	14	3.0	e1.5	1.7	e1.1	1.5	1.2	12	22	19	39	26
8	10	2.9	e1.4	1.7	e1.2	2.1	1.1	14	21	19	42	25
9	7.3	2.9	e1.4	1.6	e1.3	2.1	1.2	18	21	23	42	21
10	7.5	2.8	e1.5	1.5	e1.4	5.2	1.3	22	21	22	46	21
11	6.1	2.7	1.7	e1.5	e1.3	2.3	1.3	24	19	19	51	21
12	14	2.7	2.0	e1.5	1.2	1.9	1.4	24	17	18	54	19
13	21	2.8	1.6	e1.4	1.2	2.0	1.6	26	18	18	57	21
14	8.1	3.0	1.7	e1.3	1.2	2.0	1.6	32	19	21	53	17
15	7.2	3.2	1.7	e1.3	1.1	1.7	1.6	28	17	25	48	14
16	5.7	3.1	9.0	e1.2	1.1	1.5	1.5	18	18	22	44	15
17	5.0	2.9	4.1	e1.2	1.1	1.4	1.5	16	25	37	39	23
18	4.2	2.9	4.1	e1.2	1.1	1.2	1.6	18	28	25	52	32
19	4.0	2.9	3.1	e1.3	1.0	1.2	2.8	19	29	22	45	21
20	4.3	6.2	2.4	e1.3	1.0	1.2	2.8	17	22	19	42	15
21	4.0	4.6	2.0	1.3	1.0	1.2	7.7	18	18	17	34	12
22	3.7	3.1	2.3	1.8	1.1	1.3	5.1	17	15	20	36	11
23	3.4	2.8	11	1.7	1.1	1.2	7.0	18	14	22	27	13
24	3.4	2.7	6.9	1.4	1.1	1.2	17	17	15	21	40	23
25	3.2	2.5	2.7	1.4	1.1	1.2	19	19	17	20	62	14
26	3.2	2.4	e2.3	1.3	1.1	1.2	21	25	19	25	45	11
27	3.5	2.3	e2.2	1.3	1.4	1.1	22	28	22	36	31	11
28	3.6	2.3	e2.1	1.3	2.0	1.1	19	21	31	31	29	17
29	5.9	2.2	e2.0	1.3	---	1.0	13	21	36	23	27	15
30	3.4	2.3	e2.0	1.3	---	1.0	9.6	22	27	20	28	12
31	3.0	---	e1.9	1.4	---	1.1	---	19	---	19	25	---
TOTAL	258.9	93.6	88.5	46.1	32.30	52.5	169.30	563.7	622	708	1258	553
MEAN	8.35	3.12	2.85	1.49	1.15	1.69	5.64	18.2	20.7	22.8	40.6	18.4
MAX	36	6.2	11	1.9	2.0	5.2	22	32	36	37	62	32
MIN	3.0	2.2	1.4	1.2	0.90	1.0	1.0	8.0	14	17	17	11
AC-FT	514	186	176	91	64	104	336	1120	1230	1400	2500	1100
CFSM	5.46	2.04	1.87	0.97	0.75	1.11	3.69	11.9	13.6	14.9	26.5	12.0
IN.	6.29	2.28	2.15	1.12	0.79	1.28	4.12	13.71	15.12	17.21	30.59	13.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	10.8	3.55	3.04	1.50	1.17	1.06	2.83	10.6	22.9
MAX	18.4	8.35	5.89	2.94	2.06	1.76	5.64	18.2	27.2
(WY)	2003	2003	2003	2003	2004	1999	2005	2005	2003
MIN	4.70	1.72	0.89	0.88	0.58	0.50	0.70	4.87	20.7
(WY)	1998	2002	2002	2002	2002	2002	2002	2001	2005

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



## 15056030 KAKUHAN CREEK NEAR HAINES—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005#	
ANNUAL TOTAL	3466.95		4445.90			
ANNUAL MEAN	9.47		12.2		11.2	
HIGHEST ANNUAL MEAN					14.0 2003	
LOWEST ANNUAL MEAN					9.61 2004	
HIGHEST DAILY MEAN	37	Jun 30	62	Aug 25	155	Aug 13 2002
LOWEST DAILY MEAN	0.38	Mar 23	0.90	Feb 5	0.36	Feb 24 2001
ANNUAL SEVEN-DAY MINIMUM	0.42	Mar 18	1.0	Feb 1	0.41	Feb 19 2001
MAXIMUM PEAK FLOW			83	Jul 17	a415	Aug 31 1998
MAXIMUM PEAK STAGE			8.33	Jul 17	b8.77	Aug 31 1998
ANNUAL RUNOFF (AC-FT)	6880		8820		8110	
ANNUAL RUNOFF (CFSM)	6.19		7.96		7.31	
ANNUAL RUNOFF (INCHES)	84.29		108.10		99.38	
10 PERCENT EXCEEDS	24		28		30	
50 PERCENT EXCEEDS	3.9		5.9		4.4	
90 PERCENT EXCEEDS	0.55		1.2		0.74	

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

a From rating curve extended above 51 ft<sup>3</sup>/s

b At site 300 ft downstream, at different datum.

15056030 KAKUHAN CREEK NEAR HAINES—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 stream average by cross section on July 25. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 15.5°C, August 16, 2004; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 15.0°C, August 12; minimum, 0.0°C, on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUL							
25...	0927	14.0	1.50	7.79	18	9.4	13.6
25...	0928	14.0	4.50	7.79	18	9.4	13.6
25...	0929	14.0	7.50	7.79	18	9.4	13.6
25...	0930	14.0	10.5	7.79	18	9.4	13.6
25...	0931	14.0	13.5	7.79	18	9.4	13.6

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.5	7.5	8.0	2.0	1.0	1.5	5.0	4.0	4.5	0.0	0.0	0.0
2	8.0	7.0	7.5	2.5	1.5	1.5	4.5	3.5	4.0	0.0	0.0	0.0
3	8.0	7.0	7.0	4.5	2.5	3.5	4.0	1.5	3.0	0.0	0.0	0.0
4	7.0	6.5	7.0	2.5	1.5	2.0	1.5	0.0	0.5	0.5	0.0	0.0
5	7.5	6.0	6.5	1.5	0.5	1.0	0.0	0.0	0.0	0.5	0.0	0.5
6	6.5	5.5	6.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7.0	6.0	6.5	1.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.5
8	6.5	6.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
9	7.0	5.5	6.0	1.5	0.5	1.0	0.0	0.0	0.0	0.5	0.0	0.5
10	7.5	6.0	6.5	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
11	7.0	5.0	6.0	1.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
12	8.5	4.5	5.5	2.5	1.0	1.5	1.0	0.5	1.0	0.0	0.0	0.0
13	9.0	7.0	7.5	3.5	2.5	3.0	1.0	0.5	1.0	0.0	0.0	0.0
14	7.5	6.0	7.0	4.0	3.0	3.5	2.0	1.0	1.5	0.0	0.0	0.0
15	7.5	4.5	6.0	3.5	3.5	3.5	2.0	1.0	1.5	0.0	0.0	0.0
16	5.0	3.0	4.0	3.5	3.0	3.5	3.0	2.0	2.5	0.0	0.0	0.0
17	3.5	2.0	2.5	3.0	2.5	2.5	3.5	3.0	3.5	0.0	0.0	0.0
18	2.0	0.0	0.5	3.0	2.5	2.5	4.5	3.0	3.5	0.0	0.0	0.0
19	0.5	0.0	0.0	3.5	1.5	2.5	3.0	2.5	3.0	0.5	0.0	0.5
20	2.0	0.5	1.0	4.0	3.0	3.5	3.0	0.5	2.0	0.5	0.5	0.5
21	2.5	1.5	2.0	3.5	2.5	3.0	1.0	0.5	1.0	0.5	0.5	0.5
22	2.5	0.5	1.5	3.0	2.0	2.5	3.5	0.5	1.5	0.5	0.0	0.5
23	0.5	0.0	0.0	2.5	2.0	2.0	4.5	3.5	4.0	1.0	0.5	0.5
24	1.5	0.0	0.5	2.5	1.0	2.0	4.0	0.0	3.0	1.0	0.5	1.0
25	2.0	1.0	1.5	2.5	2.0	2.5	0.0	0.0	0.0	1.0	0.5	1.0
26	2.5	0.5	1.5	2.5	2.0	2.0	0.0	0.0	0.0	1.0	0.5	0.5
27	3.5	1.5	2.5	3.5	2.0	3.0	0.0	0.0	0.0	0.5	0.0	0.0
28	4.0	3.5	3.5	4.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
29	4.0	3.0	3.5	4.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
30	3.5	2.5	3.0	4.0	3.0	3.5	0.0	0.0	0.0	0.5	0.0	0.5
31	3.0	2.0	2.5	---	---	---	0.0	0.0	0.0	1.0	0.5	1.0
MONTH	9.0	0.0	4.2	4.5	0.0	2.2	5.0	0.0	1.3	1.0	0.0	0.3

## SOUTHEAST ALASKA

## 15056030 KAKUHAN CREEK NEAR HAINES—Continued

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1.0	0.0	0.5	1.0	0.5	1.0	1.0	0.5	0.5	6.5	3.5	4.5
2	0.0	0.0	0.0	1.5	0.5	1.0	0.5	0.0	0.0	6.5	3.5	4.5
3	0.0	0.0	0.0	1.5	1.0	1.5	1.0	0.0	0.5	6.5	4.0	5.0
4	0.0	0.0	0.0	1.5	1.0	1.5	2.5	1.0	1.5	6.5	4.5	5.0
5	0.0	0.0	0.0	2.0	1.0	1.5	2.5	1.5	2.0	7.0	3.5	5.0
6	0.0	0.0	0.0	2.0	1.0	1.5	3.5	2.0	2.5	8.5	4.0	5.5
7	0.0	0.0	0.0	2.0	1.0	1.5	3.0	1.0	2.0	8.0	4.0	5.5
8	0.0	0.0	0.0	2.0	1.5	2.0	3.0	1.0	2.0	8.5	4.0	6.0
9	0.5	0.0	0.0	2.5	2.0	2.0	2.5	2.5	2.5	8.5	5.0	6.0
10	0.5	0.5	0.5	2.0	1.5	2.0	3.5	2.0	2.5	8.5	4.5	6.0
11	0.5	0.5	0.5	3.0	1.5	2.0	3.0	2.0	2.5	9.0	5.0	6.5
12	0.5	0.0	0.0	3.5	2.5	3.0	3.5	2.5	3.0	6.5	5.0	6.0
13	0.0	0.0	0.0	3.5	2.5	2.5	3.5	2.5	3.0	7.5	5.5	6.0
14	0.0	0.0	0.0	3.0	2.0	2.5	4.0	2.5	3.0	7.5	5.0	6.0
15	0.0	0.0	0.0	2.0	0.5	1.5	3.5	1.5	2.5	7.0	4.5	5.5
16	0.5	0.0	0.0	1.0	0.0	0.5	3.0	1.5	2.5	7.0	5.0	6.0
17	0.5	0.5	0.5	1.5	0.0	0.5	4.5	2.5	3.0	8.0	4.5	6.0
18	0.5	0.5	0.5	0.5	0.0	0.0	3.0	2.5	3.0	9.0	4.5	6.5
19	0.5	0.0	0.0	0.0	0.0	0.0	4.5	1.5	3.0	7.5	5.0	6.0
20	0.5	0.0	0.0	0.0	0.0	0.0	5.0	3.5	4.0	8.5	5.5	6.5
21	0.5	0.0	0.5	0.0	0.0	0.0	6.0	3.5	4.5	7.5	5.0	6.5
22	0.5	0.5	0.5	0.0	0.0	0.0	5.5	3.0	4.0	9.5	4.5	6.5
23	0.5	0.5	0.5	0.0	0.0	0.0	8.0	3.5	5.0	9.5	5.5	7.0
24	1.0	0.5	0.5	0.0	0.0	0.0	7.5	3.5	5.0	7.5	6.0	6.5
25	1.0	1.0	1.0	0.5	0.0	0.5	7.5	4.0	5.0	8.5	5.0	6.5
26	1.0	0.5	0.5	1.5	0.5	1.0	7.0	4.0	5.0	8.5	6.0	7.0
27	1.0	1.0	1.0	2.0	1.0	1.5	7.5	4.0	5.0	7.0	5.5	6.5
28	1.0	0.5	1.0	1.5	0.5	1.0	6.0	4.0	5.0	9.0	5.0	6.5
29	---	---	---	2.0	1.0	1.0	6.0	3.5	4.5	9.0	6.0	7.5
30	---	---	---	2.5	1.0	1.5	5.5	3.0	4.0	8.0	6.0	7.0
31	---	---	---	2.0	0.5	1.0	---	---	---	9.5	5.0	7.0
MONTH	1.0	0.0	0.3	3.5	0.0	1.1	8.0	0.0	3.1	9.5	3.5	6.1
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.5	5.5	7.0	10.0	8.5	9.0	10.5	8.0	9.0	8.5	6.5	7.5
2	9.0	5.0	6.5	9.0	8.0	8.5	11.0	8.5	9.5	10.5	7.0	8.0
3	9.0	5.0	6.5	9.5	7.5	8.5	9.0	8.0	8.5	10.0	7.5	8.5
4	7.0	6.0	6.5	10.0	6.5	8.0	9.0	8.0	8.5	9.5	8.0	8.5
5	10.0	5.0	7.0	11.0	6.5	8.5	9.5	8.0	8.5	8.5	8.0	8.0
6	10.5	6.5	8.0	10.5	8.0	9.0	12.0	8.0	9.5	8.5	8.0	8.5
7	10.5	5.5	8.0	9.5	7.5	8.5	13.0	8.5	10.5	9.5	7.5	8.5
8	11.5	6.5	8.5	13.0	6.5	9.5	13.5	9.0	11.0	11.0	7.5	8.5
9	11.0	7.0	8.5	13.0	8.5	10.5	14.0	9.5	11.0	10.5	6.5	8.0
10	9.0	6.5	7.5	10.5	9.0	9.5	14.0	9.0	11.0	8.5	7.5	8.0
11	9.5	6.5	8.0	11.0	8.5	9.5	14.5	9.5	11.5	11.0	8.0	9.0
12	9.5	7.0	8.0	11.0	9.0	10.0	15.0	10.0	12.0	9.0	8.5	8.5
13	11.5	7.0	8.5	10.0	8.0	9.0	14.5	10.5	12.0	11.0	7.5	9.0
14	8.0	7.0	7.5	10.0	8.0	8.5	13.5	10.5	11.5	10.0	7.5	8.5
15	8.0	6.5	7.5	12.0	8.0	9.5	11.0	9.5	10.5	10.0	6.5	8.0
16	12.0	7.0	9.0	10.5	8.0	9.5	12.5	9.5	10.5	8.0	7.0	7.5
17	13.0	7.5	9.5	9.5	8.0	8.5	11.0	9.0	10.0	8.0	6.5	7.5
18	13.0	8.0	10.0	10.0	7.5	9.0	10.5	9.5	10.0	7.5	6.5	7.0
19	9.5	7.5	8.5	12.0	8.0	9.5	10.5	8.5	9.5	7.5	7.0	7.0
20	8.0	6.0	7.0	12.0	7.5	9.5	9.0	8.0	8.5	8.0	6.5	7.0
21	7.5	5.5	6.5	10.0	8.0	9.0	9.0	8.0	8.5	8.0	6.5	7.0
22	8.0	6.5	7.5	13.5	8.5	10.5	9.0	8.0	8.5	8.0	6.5	7.0
23	8.5	7.0	8.0	13.0	8.5	10.5	10.0	7.5	8.5	8.5	7.0	8.0
24	11.5	6.0	8.5	11.5	9.0	10.0	9.0	8.5	8.5	10.5	7.0	8.5
25	13.0	7.5	10.0	10.0	8.5	9.5	9.5	8.0	9.0	8.0	6.5	7.0
26	13.5	8.0	10.5	10.5	8.5	9.5	9.5	7.0	8.0	8.0	6.0	6.5
27	13.0	9.0	10.5	11.0	8.5	9.5	10.0	6.5	8.5	6.5	5.0	6.0
28	9.5	8.5	9.0	10.0	7.5	8.5	11.0	7.5	9.0	7.0	5.5	6.5
29	11.0	8.0	9.0	9.5	7.5	8.5	8.5	7.5	8.0	7.0	6.0	6.5
30	10.5	8.0	9.0	10.0	7.5	8.5	8.5	7.5	8.0	7.0	6.0	6.5
31	---	---	---	11.0	8.0	9.0	8.0	7.0	7.5	---	---	---
MONTH	13.5	5.0	8.2	13.5	6.5	9.2	15.0	6.5	9.5	11.0	5.0	7.7

15056210 TAIYA RIVER NEAR SKAGWAY

LOCATION.--Lat 59°30'43", long 135°20'40", in SW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 22, T. 27 S., R. 59 E. (Skagway C-1 quad), Hydrologic Unit 19010303, on the downstream side of highway bridge, 1.0 mi downstream from West Creek, 2.2 mi upstream from mouth, and 4 mi north of Skagway.

DRAINAGE AREA.--179 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- October 1969 to November 1977; October 2003 to current year.

GAGE.--Water-stage recorder.

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

EXTREMES OUTSIDE PERIOD OF RECORD --Flood of September 1967 overflowed banks and probably reached a peak discharge of over 25,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2340	315	370	e102	e62	174	104	977	2410	3660	2310	2190
2	2300	298	570	e92	e59	256	98	886	2290	3680	2160	1770
3	2160	628	611	e85	e57	278	94	942	2190	3420	2490	1530
4	2320	529	431	e86	e54	227	95	994	2500	3070	3960	1730
5	2350	375	e310	e87	e51	253	97	980	2500	2790	4390	2120
6	1910	315	e250	e88	e50	231	104	1090	2560	3530	3560	3780
7	1590	279	e210	e88	e53	188	110	1250	2720	2960	3280	4470
8	1230	250	e180	e89	e57	223	107	1450	2640	2810	3510	3640
9	1030	247	e185	e82	e62	332	113	1800	2950	3300	3680	2250
10	1210	233	e190	e77	e70	445	124	2160	2870	3520	3870	1950
11	1030	219	e210	e72	e64	397	127	2370	2590	3430	4340	1830
12	811	211	242	e68	e59	351	144	2610	2650	3160	4730	1880
13	2120	220	214	e65	e55	391	174	2360	2570	3090	5060	2500
14	1510	226	194	e62	e52	325	170	2490	2790	2890	4850	1840
15	1170	234	188	e59	e50	264	161	2660	2620	2780	4030	1460
16	820	250	368	e56	e51	218	151	2380	2680	2870	3600	1510
17	621	238	691	e54	e52	185	147	2130	3330	3870	3280	2260
18	496	225	659	e52	e53	e156	147	1950	4160	3810	4080	2670
19	420	224	543	e50	e54	e135	186	2160	4060	3040	4040	3810
20	396	348	403	e50	e55	e120	326	2470	3870	2710	2940	2540
21	369	423	325	e52	e57	e110	571	2500	3110	2530	2830	1610
22	341	328	288	e56	e60	e107	631	2200	2380	2620	3540	1300
23	300	282	987	e60	e63	e103	621	2080	2230	2720	2670	1650
24	300	259	1330	e58	e69	e100	1220	2150	2390	2820	3140	3150
25	283	253	776	e57	e75	108	1920	2090	2960	2600	6140	2570
26	267	243	e560	e56	80	107	2110	2040	3390	2600	3930	1590
27	293	225	e480	e55	85	110	2300	2520	3510	3010	2690	1190
28	349	282	e290	e54	127	110	2150	2420	3610	3340	2520	1580
29	495	318	e220	e61	---	105	1660	2350	3330	3160	2240	2210
30	419	288	e170	e70	---	100	1250	2590	3350	2900	3230	2040
31	353	---	e125	e66	---	104	---	2550	---	2640	3180	---
TOTAL	31603	8765	12570	2109	1736	6313	17212	61599	87210	95330	110270	66620
MEAN	1019	292	405	68.0	62.0	204	574	1987	2907	3075	3557	2221
MAX	2350	628	1330	102	127	445	2300	2660	4160	3870	6140	4470
MIN	267	211	125	50	50	100	94	886	2190	2530	2160	1190
AC-FT	62680	17390	24930	4180	3440	12520	34140	122200	173000	189100	218700	132100
CFSM	5.70	1.63	2.27	0.38	0.35	1.14	3.21	11.1	16.2	17.2	19.9	12.4
IN.	6.57	1.82	2.61	0.44	0.36	1.31	3.58	12.80	18.12	19.81	22.92	13.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2005, BY WATER YEAR (WY)#

	MEAN	375	174	83.4	102	89.8	190	948	2331	3521	3482	2031
MAX	1535	805	405	112	191	204	574	1987	4079	4558	4776	3131
(WY)	1975	1970	2005	1970	1977	2005	2005	2005	2004	1971	1977	1975
MIN	444	91.5	54.2	33.3	49.4	27.7	53.5	452	1625	2592	2718	1215
(WY)	1974	1974	1973	1973	1974	1974	1972	1971	1974	1970	1970	1973

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1970 - 2005#

ANNUAL TOTAL	532161	501337	
ANNUAL MEAN	1454	1374	1189
HIGHEST ANNUAL MEAN			1424
LOWEST ANNUAL MEAN			880
HIGHEST DAILY MEAN	6960	6140	9620
LOWEST DAILY MEAN	65	a50	b16
ANNUAL SEVEN-DAY MINIMUM	70	52	17
MAXIMUM PEAK FLOW		7690	11500
MAXIMUM PEAK STAGE		17.32	18.43
ANNUAL RUNOFF (AC-FT)	1056000	994400	861100
ANNUAL RUNOFF (CFSM)	8.12	7.67	6.64
ANNUAL RUNOFF (INCHES)	110.59	104.19	90.22
10 PERCENT EXCEEDS	3900	3340	3390
50 PERCENT EXCEEDS	535	628	368
90 PERCENT EXCEEDS	103	63	60

# See Period of Record; break in record

a Jan. 19 and 20; Feb. 6 and 15

b Mar. 30 and 31

e Estimated

## 15056210 TAIYA RIVER NEAR SKAGWAY—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-74, 1976-1977, and 2004 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June to October 1971, July 1972 to October 1973, March to September 1974, February to September 1977, and October 2003 to current year.

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

REMARKS.--Records represent water temperature at sensor within 1.0°C. Temperature at the sensor was compared with the stream average by cross section on July 29. A variation of 0.1°C was found within the cross section. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 10.0°C, May 21, 1974; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 9.0°C, June 6, 24-26, and July 8; minimum, 0.0°C on many days during winter.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking downstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUL							
29...	0746	185	6.00	15.44	3250	4.8	10.8
29...	0747	185	37.0	15.44	3250	4.8	10.8
29...	0748	185	68.0	15.44	3250	4.8	10.8
29...	0749	185	99.0	15.44	3250	4.8	10.8
29...	0750	185	130	15.44	3250	4.9	10.8
29...	0751	185	161	15.44	3250	4.9	10.8

## TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.0	5.5	3.0	2.5	3.0	4.5	3.5	4.0	0.5	0.0	0.5			
2	5.5	4.5	5.0	3.0	2.0	2.5	4.0	2.5	3.5	0.5	0.0	0.5			
3	5.5	4.5	5.0	3.5	2.0	3.0	4.0	2.5	3.5	0.5	0.0	0.5			
4	5.5	4.0	5.0	3.5	2.5	3.0	3.0	0.0	1.5	0.5	0.0	0.5			
5	5.5	4.0	4.5	3.0	1.5	2.0	0.5	0.0	0.5	0.5	0.0	0.5			
6	5.5	4.0	4.5	2.5	1.5	2.0	0.5	0.0	0.5	0.5	0.0	0.5			
7	5.5	4.5	5.0	2.0	0.0	1.0	0.5	0.0	0.5	0.5	0.0	0.5			
8	6.0	4.0	5.0	1.0	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.5			
9	6.0	4.5	5.0	2.0	0.0	1.0	0.5	0.0	0.5	0.5	0.0	0.5			
10	6.0	4.5	5.0	2.5	1.5	2.0	0.5	0.0	0.5	0.5	0.0	0.5			
11	5.5	4.0	4.5	2.5	1.0	1.5	1.5	0.0	1.0	0.5	0.0	0.5			
12	5.0	3.0	4.0	2.5	1.0	1.5	2.0	1.0	1.5	1.0	0.0	0.5			
13	6.0	4.5	5.5	3.0	2.0	2.5	2.0	0.5	1.5	1.0	0.0	0.5			
14	5.5	4.0	5.0	3.5	2.0	3.0	2.5	1.0	2.0	1.0	0.0	0.5			
15	5.0	4.0	4.5	3.0	2.5	3.0	2.5	1.5	2.0	0.5	0.0	0.5			
16	4.5	2.5	3.5	3.5	2.0	3.0	2.5	0.5	1.5	0.5	0.0	0.5			
17	3.5	2.5	3.0	3.0	2.0	2.5	2.5	1.0	2.0	0.5	0.0	0.5			
18	3.0	1.0	2.0	3.0	2.5	3.0	3.0	2.0	2.5	0.5	0.0	0.5			
19	2.0	0.0	1.0	3.5	2.0	2.5	3.0	2.5	2.5	0.5	0.0	0.5			
20	2.0	1.0	1.5	3.5	2.5	3.0	3.0	2.0	2.5	0.5	0.0	0.5			
21	2.5	1.0	1.5	3.5	2.0	2.5	2.5	1.5	2.0	0.5	0.0	0.5			
22	2.5	0.5	2.0	3.5	2.5	3.0	3.5	1.5	2.5	0.5	0.0	0.5			
23	1.0	0.0	0.5	3.0	2.5	3.0	4.0	2.5	3.0	0.5	0.0	0.5			
24	2.0	0.5	1.0	3.0	2.0	2.5	3.0	1.5	2.5	0.5	0.0	0.5			
25	2.5	1.0	2.0	3.5	2.5	3.0	1.5	0.0	0.5	0.5	0.0	0.0			
26	2.0	0.5	1.0	3.0	2.5	3.0	0.5	0.0	0.5	0.5	0.0	0.5			
27	3.0	1.5	2.5	3.5	2.5	3.0	0.5	0.0	0.5	0.5	0.0	0.0			
28	4.0	2.5	3.0	4.0	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0			
29	3.5	1.0	2.5	4.0	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0			
30	3.5	2.5	3.0	4.0	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0			
31	3.5	2.5	3.0	---	---	---	0.5	0.0	0.5	0.5	0.0	0.5			
MONTH	6.0	0.0	3.4	4.0	0.0	2.5	4.5	0.0	1.5	1.0	0.0	0.4			

## 15056210 TAIYA RIVER NEAR SKAGWAY—Continued

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.0	1.0	0.5	0.5	4.0	1.0	2.5	7.0	2.0	4.0
2	0.5	0.0	0.0	1.0	0.0	0.5	4.5	1.5	3.0	7.5	2.0	4.5
3	0.5	0.0	0.5	1.5	0.0	0.5	4.5	1.5	3.0	7.0	2.5	4.5
4	0.5	0.0	0.0	1.5	0.5	1.0	5.0	2.5	3.5	6.0	3.0	4.5
5	0.5	0.0	0.5	2.0	0.5	1.5	5.0	2.0	3.5	8.5	3.0	5.5
6	0.5	0.0	0.5	2.5	0.5	1.5	6.5	3.0	4.5	8.0	2.5	5.0
7	0.5	0.0	0.0	3.0	1.0	2.0	5.5	1.0	3.0	8.5	2.5	5.0
8	0.5	0.0	0.0	2.0	0.5	1.5	5.5	0.5	3.0	8.5	2.5	5.0
9	0.5	0.0	0.0	1.5	0.5	1.0	5.5	2.5	4.0	8.0	3.0	5.0
10	0.5	0.0	0.0	1.0	0.0	0.5	6.5	3.0	4.0	8.0	3.0	5.0
11	0.5	0.0	0.0	2.5	0.5	1.5	5.5	2.0	4.0	8.0	3.0	5.0
12	0.5	0.0	0.5	3.0	1.5	2.0	5.0	3.0	4.0	6.5	3.5	5.0
13	0.5	0.0	0.0	2.5	1.0	2.0	4.5	2.5	3.5	6.5	3.5	4.5
14	0.5	0.0	0.0	3.5	1.5	2.5	5.0	2.5	4.0	6.5	3.5	4.5
15	0.5	0.0	0.0	3.0	0.5	1.5	6.5	2.0	4.0	6.5	3.5	5.0
16	0.5	0.0	0.0	3.0	0.0	1.5	6.0	2.0	4.0	6.5	3.5	4.5
17	0.5	0.0	0.0	2.5	0.0	1.0	6.5	2.5	4.5	6.5	3.5	4.5
18	0.5	0.0	0.0	1.5	0.0	0.5	5.0	3.0	4.0	7.5	2.5	5.0
19	0.5	0.0	0.0	0.5	0.0	0.0	4.0	2.0	3.0	7.5	3.0	5.0
20	0.5	0.0	0.0	0.5	0.0	0.0	5.5	2.5	4.0	7.0	3.5	5.0
21	0.5	0.0	0.0	0.5	0.0	0.0	5.5	2.5	3.5	6.5	3.5	5.0
22	0.5	0.0	0.0	1.5	0.0	0.5	6.5	1.5	4.0	8.0	3.0	5.0
23	0.5	0.0	0.0	4.0	0.5	2.0	8.0	1.5	4.0	7.0	3.5	5.0
24	0.5	0.0	0.5	3.5	0.0	1.5	7.0	1.5	3.5	6.5	4.0	5.0
25	1.5	0.0	0.5	3.0	0.5	2.0	6.5	2.0	3.5	7.5	3.5	5.5
26	1.0	0.5	1.0	4.5	1.5	3.0	6.0	2.0	3.5	6.5	4.0	5.5
27	1.5	0.5	1.0	5.0	2.5	3.5	6.5	2.0	4.0	6.0	4.0	5.0
28	1.5	0.5	1.0	5.0	1.5	3.5	6.0	2.5	4.0	7.5	4.0	5.5
29	---	---	---	3.0	2.0	2.5	6.5	2.0	4.0	7.0	3.5	5.5
30	---	---	---	4.5	1.5	3.0	6.5	2.5	4.0	7.0	4.5	5.5
31	---	---	---	3.5	2.0	3.0	---	---	---	8.5	3.5	5.5
MONTH	1.5	0.0	0.2	5.0	0.0	1.5	8.0	0.5	3.7	8.5	2.0	5.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	3.5	5.5	6.5	5.0	5.5	6.5	4.5	5.5	6.5	4.5	5.0
2	8.5	3.5	5.5	6.0	5.0	5.5	7.0	5.0	6.0	6.5	4.5	5.0
3	8.5	3.5	6.0	7.0	4.5	5.5	6.0	5.0	5.5	7.0	4.5	5.5
4	5.5	4.5	5.0	7.0	4.5	5.5	6.0	5.0	5.5	6.0	4.5	5.5
5	8.0	3.5	5.5	8.5	4.0	6.0	5.5	4.5	5.0	5.5	4.5	5.0
6	9.0	4.0	6.0	6.5	5.0	6.0	7.5	4.5	5.5	5.5	4.5	5.0
7	8.0	4.0	5.5	6.5	4.5	5.5	7.5	4.5	6.0	6.0	5.0	5.5
8	8.5	4.0	6.0	9.0	4.5	6.5	7.5	4.5	6.0	6.5	4.5	5.5
9	8.5	4.5	6.0	8.5	5.0	6.5	8.0	5.0	6.0	7.0	4.0	5.0
10	7.0	4.5	5.5	8.0	5.5	6.5	8.0	4.5	6.0	5.5	4.5	5.0
11	8.0	4.5	6.0	7.5	5.0	6.0	8.0	4.5	6.0	7.0	4.5	5.5
12	7.0	4.5	5.5	6.5	5.0	6.0	8.0	4.5	6.0	6.0	4.5	5.0
13	8.5	4.5	6.0	7.0	5.0	6.0	7.5	5.0	6.0	6.0	5.0	5.5
14	6.5	4.5	5.5	6.5	5.0	5.5	7.0	4.5	5.5	6.5	4.5	5.0
15	6.0	4.5	5.0	8.5	4.5	6.0	7.5	4.5	5.5	6.5	4.0	5.0
16	8.5	4.0	6.0	7.0	4.5	5.5	6.5	5.0	5.5	6.0	5.0	5.5
17	8.5	4.5	6.0	6.5	5.0	6.0	6.0	4.5	5.0	5.5	4.5	5.0
18	8.5	4.5	6.0	6.0	4.5	5.5	6.0	4.5	5.5	5.0	4.0	4.5
19	5.5	5.0	5.0	8.0	4.5	6.0	6.0	4.5	5.5	5.5	4.5	5.0
20	6.0	4.5	5.0	7.0	4.5	5.5	6.0	4.5	5.0	5.5	4.5	5.0
21	6.0	4.0	5.0	7.0	5.0	5.5	6.0	4.5	5.0	6.0	4.5	5.0
22	6.0	4.5	5.0	8.5	4.5	6.0	6.0	4.5	5.0	6.0	4.5	5.0
23	7.0	4.5	5.5	8.5	4.5	6.5	5.5	4.5	5.0	6.0	4.5	5.5
24	9.0	4.5	6.5	7.5	5.5	6.0	5.5	4.5	5.0	6.5	5.0	6.0
25	9.0	4.5	6.5	6.5	5.0	6.0	5.5	4.5	5.0	5.5	4.0	4.5
26	9.0	4.5	6.5	7.0	5.0	6.0	5.5	4.5	5.0	5.5	4.0	4.5
27	8.5	5.0	6.5	7.0	5.0	6.0	6.0	4.0	5.0	5.0	4.0	4.5
28	6.5	5.0	5.5	6.5	5.0	5.5	7.0	4.5	5.5	5.0	3.0	4.0
29	7.5	5.0	6.0	6.5	4.5	5.5	5.0	4.0	4.5	5.5	4.5	5.0
30	8.0	5.0	6.0	7.0	4.5	5.5	5.5	4.5	5.0	5.5	4.5	4.5
31	---	---	---	7.0	4.5	5.5	5.5	4.5	5.0	---	---	---
MONTH	9.0	3.5	5.7	9.0	4.0	5.8	8.0	4.0	5.4	7.0	3.0	5.0

## 15070000 SWAN LAKE NEAR KETCHIKAN

LOCATION.--Lat 55°36'54", long 131°20'14", in SW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 20, T. 72 S., R. 92 E. (Ketchikan C-4 quad), Hydrologic Unit 19010102, Ketchikan Gateway Borough, on Revillagigedo Island, in Tongass National Forest, 0.7 mi upstream from mouth at Carroll Inlet, and 22 mi northeast of Ketchikan.

DRAINAGE AREA.--36.5 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1916 to January 1926, September 1927 to December 1933 and October 1946 to September 1959 (discharge). Published as "Swan Lake Outlet at Carroll Inlet" prior to 1946 and as "Falls Creek near Ketchikan" October 1946 to September 1959. Monthly discharges only for some periods, published in WSP 1372. October 1984 to current year (month end reservoir contents and monthly discharges).

REVISED RECORDS.--WSP 1372: Drainage area, 1918.

GAGE.--Non-recording lake-level staff gage. Datum of lake-level staff gage is at sea level. Totalizing MWH meters on the two turbines in Swan Lake Powerhouse. September 1916 to January 1926 and September 1927 to December 1933 at site 1,500 ft downstream at different datum. October 1946 to September 1959, recording gage at site 2,500 ft downstream, elevation of gage was 130 ft above sea level, from topographic map.

REMARKS.--Reservoir is formed by a concrete arch dam located at the outlet of Swan Lake; construction began in August 1980 and was completed in March 1983. Total and usable capacities below spillway crest of 330 ft are 126,200 and 82,800 acre-ft, respectively. Reservoir is used for power. Discharge released through turbines is computed from relation between discharge, head, and power generation; release flow enters directly into Carroll Inlet and is not returned to stream. Spill is computed from a theoretical relation between discharge and stage above crest of the spillway. Turbine and spillway ratings and reservoir capacity table furnished by the City of Ketchikan in 1985.

COOPERATION.--Reservoir elevations and release flow provided by the City of Ketchikan.

AVERAGE DISCHARGE.--49 years (water years 1917-25, 1928-33, 1947-59, 1985-2005), 444 ft<sup>3</sup>/s, 165.19 in/yr, 321,680 acre-ft/yr. Mean discharge for water years 1985-2005 adjusted for change in contents of Swan Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 134,920 acre-ft, October 26, 2003, elevation, 336.10 ft; minimum contents observed, 51,770 acre-ft, September 22, 1993, elevation, 278.4 ft. Maximum discharge, about 5,500 ft<sup>3</sup>/s, November 1, 1917; minimum daily discharge, 19 ft<sup>3</sup>/s, February 21 to 25, 1925. Maximum daily discharge since construction of dam, 3,680 ft<sup>3</sup>/s, November 30, 1988; no flow released several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 124,000 acre-ft, December 25, elevation, 328.50 ft; minimum contents observed, 83,060 acre-ft, October 4, elevation, 300.20 ft. Maximum release from reservoir (mean daily, not adjusted for changes in storage), 823 ft<sup>3</sup>/s, January 13; minimum release, 0 ft<sup>3</sup>/s, June 28-July 1.

MONTH END RESERVOIR ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, IN ACRE FEET  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Sep 30	302.7	86,670	
Oct 31	312.0	100,130	+13,460
Nov 30	320.7	112,720	+12,590
Dec 31	324.8	118,640	+5,920
Jan 31	323.4	116,620	-2,020
Feb 28	318.3	109,240	-7,380
Mar 31	321.3	113,580	+4,340
Apr 30	323.9	117,350	+3,770
May 31	322.0	114,600	-2,750
Jun 30	314.1	103,160	-11,440
Jul 31	317.7	108,380	+5,220
Aug 31	315.4	105,050	-3,330
Sep 30	326.0	120,380	+15,330
		CAL YR 2004	-5,660
		WTR YR 2005	+33,710

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
MEAN VALUES

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	423	0	423	642
NOV	441	0	441	653
DEC	540	0	540	636
JAN	582	0	582	549
FEB	444	0	444	311
MAR	366	0	366	437
APR	358	0	358	421
MAY	305	0	305	260
JUN	295	0	295	103
JUL	347	0	347	432
AUG	383	0	383	329
SEP	333	0	333	591
CAL YR 2004	412	20.9	433	426
WTR YR 2005	401	0	401	447

## 15072000 FISH CREEK NEAR KETCHIKAN

LOCATION.--Lat 55°23'31", long 131°11'38", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 6, T. 75 S., R. 94 E. (Ketchikan B-4 quad.), Gateway Borough, Hydrologic Unit 19010102, on Revillagigedo Island, in Tongass National Forest, on right bank 250 ft upstream from outlet of Low Lake, 750 ft upstream from mouth at Thorne Arm, and 18 mi east of Ketchikan.

DRAINAGE AREA.--32.1 mi<sup>2</sup>, excludes that of Granite Lake drainage basin.

PERIOD OF RECORD.--May 1915 to October 1936, October 1938 to current year. Prior to October 1945, monthly discharge only. Records of daily discharge prior to October 1945 are available in computer files of the Geological Survey. Prior to January 1921, published as "near Sea Level, Revillagigedo Island."

REVISED RECORDS.--WSP 1372: 1918.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above sea level, by barometer. Prior to October 1935, at site 150 ft downstream at different datum. October 1935 to October 3, 1975, at prior site and present datum.

REMARKS.--No estimated daily discharges. Records fair. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft<sup>3</sup>/s and/or maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 01	1515	*2150	*3.36	No peaks greater than base discharge			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	810	462	243	1930	155	342	267	129	106	222	761
2	279	913	822	211	1820	213	366	234	122	117	204	1290
3	237	1050	1440	187	1320	469	382	218	116	167	185	1030
4	231	1840	1160	167	982	841	393	204	114	372	197	762
5	628	1560	845	151	718	856	384	190	109	835	219	567
6	894	1040	630	140	526	680	424	179	103	906	239	509
7	1150	761	480	127	404	659	364	170	97	1020	246	759
8	1100	592	381	118	334	811	330	163	92	887	229	909
9	860	455	372	108	329	916	389	159	88	684	208	728
10	801	363	340	102	544	1050	514	157	87	536	186	558
11	812	301	289	99	751	1470	546	157	85	435	167	437
12	741	260	252	93	663	1140	465	158	82	357	150	353
13	1230	451	238	86	482	830	384	160	82	299	138	319
14	1040	968	275	82	370	625	336	181	89	281	126	283
15	791	1140	337	77	301	489	370	207	91	569	116	250
16	607	1070	799	79	258	399	367	229	88	672	108	220
17	471	868	816	187	224	324	317	232	83	545	101	199
18	374	681	1050	274	203	272	283	220	78	446	97	281
19	306	528	1570	384	181	229	358	209	74	384	139	401
20	257	479	1190	462	163	199	424	201	73	322	250	633
21	226	803	926	549	149	175	432	199	72	279	1120	752
22	253	811	710	793	137	157	430	192	70	245	1020	568
23	231	679	644	1010	127	142	402	189	71	217	855	445
24	266	662	975	1150	124	130	394	199	79	205	664	389
25	293	582	961	930	155	121	403	204	87	189	510	449
26	242	518	755	781	154	120	397	195	88	173	490	456
27	222	453	578	775	147	126	393	182	86	234	501	395
28	232	401	552	1110	147	148	379	169	86	299	495	744
29	639	435	447	1200	---	174	343	158	90	288	410	1080
30	721	432	354	1300	---	177	304	147	97	253	463	1060
31	651	---	290	1770	---	316	---	138	---	231	533	---
TOTAL	17118	21906	20940	14745	13643	14413	11615	5867	2708	12553	10588	17587
MEAN	552	730	675	476	487	465	387	189	90.3	405	342	586
MAX	1230	1840	1570	1770	1930	1470	546	267	129	1020	1120	1290
MIN	222	260	238	77	124	120	283	138	70	106	97	199
MED	471	670	630	211	315	316	384	190	87	299	222	534
AC-FT	33950	43450	41530	29250	27060	28590	23040	11640	5370	24900	21000	34880
CFSM	17.2	22.7	21.0	14.8	15.2	14.5	12.1	5.90	2.81	12.6	10.6	18.3
IN.	19.84	25.39	24.27	17.09	15.81	16.70	13.46	6.80	3.14	14.55	12.27	20.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2005, BY WATER YEAR (WY)#

MEAN	692	567	427	361	318	264	354	497	464	332	330	451
MAX	1326	1767	1081	975	944	673	655	867	764	718	767	966
(WY)	1975	1918	1931	1926	1993	1986	1949	1999	1951	1976	1972	2001
MIN	237	89.2	83.4	37.9	37.8	71.4	130	182	90.3	65.3	50.7	80.0
(WY)	1926	1974	1984	1950	1969	1969	1967	1998	2005	1958	1965	1965

# See Period of Record; partial year was used in monthly statistics and breaks in record.



## 15072000 FISH CREEK NEAR KETCHIKAN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1915 - 2005#	
ANNUAL TOTAL	150498		163683			
ANNUAL MEAN	411		448		422	
HIGHEST ANNUAL MEAN					556 1992	
LOWEST ANNUAL MEAN					302 1978	
HIGHEST DAILY MEAN	2290	Jan 15	1930	Feb 1	4410	Oct 15 1961
LOWEST DAILY MEAN	57	Aug 26	70	Jun 22	20	Sep 9 1928
ANNUAL SEVEN-DAY MINIMUM	65	Aug 21	74	Jun 18	23	Sep 5 1928
MAXIMUM PEAK FLOW			2150	Feb 1	a5400	Oct 15 1961
MAXIMUM PEAK STAGE			3.36	Feb 1	b5.85	Oct 15 1961
INSTANTANEOUS LOW FLOW			c69	Jun 21	20	Sep 9 1928
ANNUAL RUNOFF (AC-FT)	298500		324700		306100	
ANNUAL RUNOFF (CFSM)	12.8		14.0		13.2	
ANNUAL RUNOFF (INCHES)	174.41		189.69		178.83	
10 PERCENT EXCEEDS	900		971		864	
50 PERCENT EXCEEDS	279		340		319	
90 PERCENT EXCEEDS	114		108		99	

# See Period of Record; partial year was used in monthly statistics and breaks in record.

a From rating curve extended above 3,600 ft<sup>3</sup>/s

b At site then in use

c June 21 to June 23

## 15081497 STANEY CREEK NEAR KLAWOCK

LOCATION.--Lat 55°48'05", long 133°06'31", in SW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec. 14, T. 70 S., R. 80 E. (Craig D-4 quad), Hydrologic Unit 19010103, on Prince of Wales Island, in Tongass National Forest, on right bank, approximately 2.9 mi upstream from mouth, and 17 mi north of Klawock.

DRAINAGE AREA.--50.6 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1989 to current year. Equivalent daily discharge record collected at station No. 15081500 near Craig during water years 1964-81. Drainage area, 51.6 mi<sup>2</sup>.

GAGE.--Water-stage recorder. Elevation of gage is 47 ft above sea level, by barometer.

REMARKS.--Records fair, except for discharges above 6,000 ft<sup>3</sup>/s, and estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov. 03	1830	11900	15.35	Dec. 02	1800	*16900	*16.60
Nov. 21	0100	7170	13.77	Feb. 01	1500	10500	14.95

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	1600	702	e60	4140	341	382	42	22	43	157	26
2	62	1030	6150	e50	972	439	319	45	20	36	89	26
3	53	5880	1660	e45	454	507	487	58	19	218	78	27
4	139	1720	425	e40	298	679	385	58	18	294	178	15
5	1540	470	217	e37	191	354	379	43	17	262	205	10
6	1420	256	151	e35	130	230	554	35	16	495	327	43
7	1090	182	106	e30	121	459	265	31	16	1060	190	68
8	959	142	94	e27	212	1030	231	27	15	293	105	37
9	357	114	139	e23	442	604	233	25	15	171	74	16
10	308	93	230	e20	1180	1100	391	23	15	636	53	10
11	266	79	248	e18	384	833	413	21	17	301	43	8
12	375	74	360	e18	231	343	277	22	17	133	38	7
13	1720	639	306	e19	154	189	192	24	17	75	34	11
14	357	1450	668	e20	127	131	152	29	19	209	32	10
15	248	755	487	e30	102	109	156	159	23	800	31	8
16	202	755	1610	e60	113	100	227	173	24	258	30	6
17	142	485	552	e400	131	84	165	126	20	133	29	9
18	108	246	1610	e250	146	69	125	67	17	264	31	326
19	82	194	2390	e230	125	e55	902	49	15	214	598	178
20	67	1110	792	e250	102	e52	389	45	15	174	204	50
21	112	2070	437	528	88	e54	241	60	14	139	189	28
22	828	314	243	887	85	67	170	57	14	142	1080	16
23	364	337	873	540	164	65	125	111	14	91	520	28
24	848	1360	1410	474	248	56	115	148	19	66	163	40
25	569	691	422	244	342	51	103	75	37	51	388	64
26	220	900	197	399	324	56	76	47	26	49	734	20
27	412	376	136	424	325	108	65	35	20	123	365	18
28	986	360	679	939	408	141	54	30	18	153	217	192
29	2420	345	278	658	---	111	40	28	21	105	128	175
30	709	417	133	1470	---	178	34	28	71	116	187	96
31	520	---	e80	1380	---	1360	---	25	---	213	341	--
TOTAL	17558	24444	23785	9605	11739	9955	7647	1746	611	7317	6838	1580
MEAN	566	815	767	310	419	321	255	56.3	20.4	236	221	52
MAX	2420	5880	6150	1470	4140	1360	902	173	71	1060	1080	326
MIN	53	74	80	18	85	51	34	21	14	36	29	6
AC-FT	34830	48480	47180	19050	23280	19750	15170	3460	1210	14510	13560	3134
CFSM	11.2	16.1	15.2	6.12	8.29	6.35	5.04	1.11	0.40	4.66	4.36	10.
IN.	12.91	17.97	17.49	7.06	8.63	7.32	5.62	1.28	0.45	5.38	5.03	11.6

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY) #

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	644	574	619	452	384	345	292	209	110	100	191	50				
MAX	1123	996	1270	782	983	565	559	558	252	236	469	89				
(WY)	2000	1992	1992	1992	1991	1994	1999	1999	1999	2005	2002	200				
MIN	403	201	267	240	152	104	144	56.3	20.4	22.1	26.6	16				
(WY)	2003	1997	1997	1998	1994	2002	2003	2005	2005	1993	1993	199				

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

## 15081497 STANEY CREEK NEAR KLAWOCK—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005#	
ANNUAL TOTAL	136941		137046			
ANNUAL MEAN	374		375		368	
HIGHEST ANNUAL MEAN					506 1992	
LOWEST ANNUAL MEAN					283 1995	
HIGHEST DAILY MEAN	6150	Dec 2	6150	Dec 2	14900	Oct 26 1993
LOWEST DAILY MEAN	a15	Jun 23	b14	Jun 21	4.4	Jul 21 1993
ANNUAL SEVEN-DAY MINIMUM	15	Jun 23	15	Jun 18	6.0	Jul 15 1993
MAXIMUM PEAK FLOW			16900	Dec 2	c19800	Oct 26 1993
MAXIMUM PEAK STAGE			16.60	Dec 2	17.20	Oct 26 1993
INSTANTANEOUS LOW FLOW			d13	Jun 22	4.0	Jul 21 1993
ANNUAL RUNOFF (AC-FT)	271600		271800		266900	
ANNUAL RUNOFF (CFSM)	7.39		7.42		7.28	
ANNUAL RUNOFF (INCHES)	100.68		100.75		98.93	
10 PERCENT EXCEEDS	973		947		881	
50 PERCENT EXCEEDS	140		171		168	
90 PERCENT EXCEEDS	25		24		35	

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

a June 23-26, 29-30, and July 1

b June 21-23

c From rating curve extended above 3300 ft<sup>3</sup>/sec

d June 22-23

15081497 STANEY CREEK NEAR KLAWOCK—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: January 1990 to current year.

INSTRUMENTATION.--Electronic water temperature recorder since January 11, 1990, set for 2-hour recording interval. As of April 9, 1996, recorder set to 15-minute recording interval.

REMARKS.--No record from November 6-12, December 6-9, 26-27, 29-30, and February 5-7, 12-14 due to a faulty probe. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross-section on August 17. No variation was found in the temperature cross-section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE.--Maximum recorded, 26.0°C, June 29, 1990, but may have been higher during period of instrument malfunction July 9 to August 23, 1990; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE.--Maximum, 23.5°C, June 18; minimum, 0.0°C on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
AUG							
17...	0930	66.0	5.00	6.93	29	14.0	15.0
17...	0931	66.0	16.0	6.93	29	14.0	15.0
17...	0932	66.0	27.0	6.93	29	14.0	15.0
17...	0933	66.0	38.0	6.93	29	14.0	15.0
17...	0934	66.0	49.0	6.93	29	14.0	15.0
17...	0935	66.0	60.0	6.93	29	14.0	15.0

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	8.0	9.0	5.0	4.5	5.0	5.5	5.0	5.0	0.0	0.0	0.0
2	11.0	9.0	9.5	5.0	4.5	4.5	6.5	5.5	6.0	0.0	0.0	0.0
3	9.5	7.5	8.5	6.0	4.5	5.5	6.0	4.0	5.0	0.0	0.0	0.0
4	10.0	9.0	9.0	6.0	4.5	5.0	4.0	3.0	3.5	0.0	0.0	0.0
5	10.0	9.0	9.5	4.5	3.5	4.0	3.5	2.0	2.5	0.0	0.0	0.0
6	9.0	9.0	9.0	---	---	---	---	---	---	0.0	0.0	0.0
7	9.0	8.5	9.0	---	---	---	---	---	---	0.0	0.0	0.0
8	9.0	8.5	9.0	---	---	---	---	---	---	0.0	0.0	0.0
9	9.5	8.5	9.0	---	---	---	---	---	---	0.0	0.0	0.0
10	9.5	8.5	9.0	---	---	---	2.0	1.0	1.5	0.0	0.0	0.0
11	8.5	7.5	8.0	---	---	---	2.0	1.0	1.5	0.0	0.0	0.0
12	9.5	7.0	8.0	---	---	---	2.0	1.5	1.5	0.0	0.0	0.0
13	10.0	9.5	10.0	4.0	2.5	3.0	2.5	1.5	2.0	0.0	0.0	0.0
14	10.5	9.5	10.0	5.0	4.0	4.5	3.0	2.5	3.0	0.0	0.0	0.0
15	10.0	8.5	9.5	5.0	4.5	5.0	3.5	2.5	3.0	0.0	0.0	0.0
16	8.5	7.0	7.5	4.5	3.5	4.0	4.5	3.5	4.0	0.0	0.0	0.0
17	7.0	5.5	6.0	3.5	3.0	3.5	5.0	4.5	4.5	0.0	0.0	0.0
18	6.0	4.5	5.0	3.0	2.0	2.5	6.0	5.0	5.5	0.0	0.0	0.0
19	4.5	3.0	4.0	4.0	2.5	3.0	5.5	4.5	5.0	0.0	0.0	0.0
20	5.0	3.0	4.0	6.0	3.5	4.5	4.5	3.5	4.0	0.0	0.0	0.0
21	4.5	2.5	3.5	6.0	4.5	5.5	4.0	3.0	3.5	1.5	0.0	0.5
22	4.5	3.0	3.5	4.5	3.5	4.0	4.5	3.5	4.0	1.0	0.5	1.0
23	4.0	3.0	3.5	4.0	3.5	3.5	5.0	4.5	4.5	1.0	1.0	1.0
24	4.5	3.0	4.0	4.5	4.0	4.5	5.0	3.5	4.5	1.5	1.0	1.5
25	4.5	3.5	4.0	4.5	4.0	4.0	3.5	2.0	2.5	1.5	0.5	1.0
26	4.0	3.0	3.5	4.0	3.5	4.0	---	---	---	2.0	1.5	2.0
27	4.5	3.0	4.0	4.5	3.5	4.0	---	---	---	2.5	2.0	2.0
28	5.5	4.5	5.0	4.5	4.5	4.5	1.5	0.5	1.5	2.5	2.0	2.0
29	6.0	5.5	6.0	4.5	4.5	4.5	---	---	---	2.5	2.0	2.0
30	5.5	4.5	5.0	5.0	4.5	4.5	---	---	---	2.5	2.0	2.5
31	4.5	4.0	4.5	---	---	---	0.0	0.0	0.0	2.5	2.0	2.0
MONTH	11.0	2.5	6.7	---	---	---	---	---	---	2.5	0.0	0.6

## SOUTHEAST ALASKA

## 15081497 STANEY CREEK NEAR KLAWOCK—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.0	2.0	3.5	2.5	3.0	3.0	2.0	2.5	11.0	7.5	9.0
2	2.5	2.0	2.5	4.0	3.0	3.5	3.0	1.5	2.5	11.0	8.5	9.5
3	2.5	2.0	2.0	3.0	3.0	3.0	4.0	2.0	3.0	11.0	8.5	9.5
4	2.5	1.0	2.0	3.5	3.0	3.5	4.0	2.5	3.5	12.0	7.5	9.5
5	---	---	---	3.5	2.5	3.0	4.5	3.0	4.0	14.0	7.5	10.0
6	---	---	---	3.0	2.0	2.5	5.0	3.0	4.0	15.0	7.0	11.0
7	---	---	---	4.0	3.0	3.5	5.5	3.5	4.5	15.5	8.5	12.0
8	0.5	0.0	0.0	4.5	4.0	4.0	5.5	3.0	4.5	16.0	8.5	12.5
9	1.0	0.5	1.0	5.0	4.0	4.5	5.5	3.5	4.5	17.0	9.5	13.5
10	1.5	1.0	1.5	5.5	5.0	5.0	4.5	3.5	4.0	17.0	10.5	14.5
11	1.5	0.0	1.0	5.0	4.5	4.5	5.5	3.5	4.5	15.5	13.0	14.0
12	---	---	---	5.5	4.5	4.5	5.0	3.0	4.0	13.0	11.5	12.5
13	---	---	---	5.5	3.5	4.5	4.5	3.0	4.0	15.5	11.0	13.0
14	---	0.0	---	5.0	3.5	4.0	5.5	2.5	4.0	15.0	12.0	13.5
15	2.0	0.0	1.0	5.0	3.5	4.0	5.0	3.5	4.0	12.5	10.0	11.0
16	1.5	0.5	1.0	4.0	2.0	3.0	6.5	4.0	5.0	12.0	8.5	10.5
17	1.5	0.5	1.0	3.5	1.0	2.0	7.0	3.5	5.0	14.0	9.0	11.0
18	2.0	1.0	1.5	2.5	0.5	1.5	6.0	3.5	5.0	14.0	9.0	11.5
19	1.5	0.5	1.0	0.5	0.0	0.0	5.5	5.0	5.0	14.5	10.0	12.0
20	1.5	0.0	0.5	0.0	0.0	0.0	7.0	5.0	6.0	13.0	10.0	11.5
21	2.0	0.5	1.5	1.5	0.0	0.5	8.5	6.0	7.0	13.0	10.5	11.5
22	2.0	1.0	1.5	4.0	1.0	2.5	9.5	5.0	7.0	14.5	9.0	11.0
23	2.0	1.0	1.5	3.5	0.5	2.0	11.0	5.5	8.0	11.5	9.0	10.0
24	1.5	0.5	1.0	3.5	0.0	1.5	12.5	6.5	9.5	11.5	9.0	10.5
25	2.0	1.0	1.5	3.5	0.0	2.0	11.5	8.0	9.5	14.0	8.5	11.5
26	3.0	1.5	2.0	7.0	3.0	4.5	14.5	8.5	11.0	15.5	10.5	13.0
27	2.5	1.5	2.0	5.5	3.5	4.5	15.0	9.0	12.0	16.0	11.5	13.0
28	3.5	2.0	2.5	4.5	2.5	3.5	13.5	8.5	11.0	17.5	10.5	14.0
29	---	---	---	5.0	2.5	4.0	13.5	7.5	10.5	14.5	11.5	13.0
30	---	---	---	4.5	3.0	3.5	10.0	7.5	8.5	18.0	12.0	14.5
31	---	---	---	3.5	3.0	3.0	---	---	---	16.5	12.0	14.5
MONTH	---	---	---	7.0	0.0	3.1	15.0	1.5	5.9	18.0	7.0	11.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	12.0	15.0	15.5	13.0	14.0	15.0	11.5	13.0	12.0	11.0	11.5
2	19.0	11.0	15.0	14.5	13.0	13.5	15.5	11.0	13.0	12.5	11.0	11.5
3	15.5	12.5	14.0	14.5	11.5	13.5	14.5	12.5	13.5	12.0	10.5	11.0
4	17.5	12.5	14.5	13.5	11.5	12.5	14.0	12.5	13.0	11.5	9.5	10.5
5	17.0	11.0	14.0	14.5	12.0	13.0	13.0	12.0	12.5	11.5	9.0	10.5
6	20.0	12.0	15.5	12.5	11.5	12.0	14.0	12.0	12.5	11.5	10.5	11.0
7	19.0	13.5	16.0	11.5	11.0	11.0	15.5	11.5	13.0	12.0	11.0	11.5
8	19.0	13.0	16.0	13.5	11.0	12.0	17.0	11.5	14.0	12.5	11.0	11.5
9	16.0	13.5	14.0	14.0	11.5	12.5	18.5	12.5	15.5	12.0	9.5	11.0
10	15.5	13.0	14.0	12.5	11.5	12.0	20.0	13.5	16.5	12.0	9.5	11.0
11	15.5	13.0	14.0	13.5	11.5	12.5	20.5	14.0	17.5	12.5	11.0	11.5
12	15.0	11.5	13.5	15.0	11.5	13.0	20.5	14.5	18.0	13.5	11.0	12.5
13	14.5	12.0	13.5	14.5	12.5	13.5	20.5	15.0	18.0	13.5	12.0	12.5
14	15.5	12.5	14.0	14.0	12.0	12.5	18.5	15.5	16.5	13.0	11.0	12.0
15	15.5	12.0	14.0	12.5	11.5	12.0	17.5	14.5	16.0	13.5	11.0	12.0
16	19.0	11.0	15.5	14.0	10.5	12.5	18.0	14.0	16.0	12.0	9.5	11.0
17	21.5	12.5	17.0	15.0	12.0	13.5	18.5	13.5	16.5	11.5	10.5	11.0
18	23.5	15.0	19.0	13.5	12.0	13.0	17.5	15.0	16.5	11.0	10.0	10.5
19	19.0	15.5	17.0	13.5	11.5	12.5	16.5	13.5	14.0	10.5	10.0	10.0
20	17.5	14.5	16.0	14.5	11.5	13.0	14.0	12.0	13.0	10.0	9.5	9.5
21	19.0	12.5	15.5	14.5	12.0	13.0	14.0	12.5	13.0	10.0	9.0	9.5
22	15.5	14.0	14.5	16.0	11.0	13.0	13.0	12.0	12.5	9.5	8.0	9.0
23	14.0	12.5	13.5	17.5	12.0	14.5	14.0	11.5	12.5	10.0	8.5	9.5
24	18.5	13.0	15.5	17.0	12.5	15.0	14.0	11.0	12.5	10.5	10.0	10.0
25	17.5	14.0	15.5	15.5	12.5	14.0	13.5	12.0	13.0	10.5	9.5	10.0
26	19.5	13.0	16.5	14.5	13.0	14.0	13.0	12.0	12.5	9.5	8.0	9.0
27	22.5	13.5	18.0	15.5	13.0	14.0	12.5	12.0	12.5	8.5	7.0	8.0
28	18.0	15.0	15.5	14.5	13.0	13.5	14.5	11.5	12.5	10.0	8.5	9.5
29	15.5	14.5	15.0	14.5	12.0	13.5	12.5	11.0	11.5	9.5	9.0	9.5
30	17.0	13.5	15.0	14.0	12.0	13.0	13.0	11.0	12.5	9.5	8.5	9.0
31	---	---	---	13.5	11.5	12.5	12.5	11.5	12.0	---	---	---
MONTH	23.5	11.0	15.2	17.5	10.5	13.0	20.5	11.0	14.0	13.5	7.0	10.6

## 15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK

LOCATION.--Lat 55°33'26", long 133°01'01", in NW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec. 7, T. 73 S., R. 82 E. (Craig C-3 quad), Hydrologic Unit 19010103, on Prince of Wales Island, approximately 1.1 mi upstream from the mouth at Klawock Lake, and 2.9 mi east of the city of Klawock.

DRAINAGE AREA.--4.73 mi<sup>2</sup>

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 400 ft above sea level, from topographic map.

REMARKS.--Records fair, except for estimated discharges and those above 180 ft<sup>3</sup>/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	123	100	e4.0	211	38	33	5.8	2.6	13	28	38
2	5.3	76	284	e4.0	75	69	33	6.0	2.3	23	11	24
3	4.6	225	120	e4.0	40	76	37	6.9	2.0	47	9.4	19
4	52	127	36	e5.0	26	75	31	7.4	1.9	53	34	13
5	188	37	16	e5.0	15	35	56	6.5	1.8	47	37	9.6
6	140	18	11	e4.0	e14	22	62	5.7	1.6	39	97	50
7	101	12	e9.0	e4.0	13	37	29	5.0	1.5	29	45	129
8	129	8.9	e8.0	e4.0	29	78	21	4.5	1.4	15	14	70
9	33	7.3	19	e4.0	70	33	26	4.1	1.3	9.4	8.8	23
10	52	6.4	16	e3.0	88	104	43	3.8	3.0	72	6.4	12
11	26	5.7	23	e3.0	38	82	49	3.5	6.0	24	5.2	11
12	68	16	25	e2.0	20	30	33	3.4	4.8	11	4.3	9.2
13	179	113	33	e2.0	13	16	21	4.0	4.8	8.3	3.8	45
14	60	128	79	e3.0	13	11	16	26	4.6	46	3.4	20
15	48	82	66	e4.0	9.1	9.2	31	40	7.5	68	3.5	13
16	23	66	139	e5.0	11	7.9	33	18	7.1	20	3.3	9.7
17	12	32	34	e9.0	12	6.8	20	18	4.7	23	3.0	43
18	8.1	14	131	e7.0	14	5.9	14	9.0	3.4	65	5.9	220
19	6.3	16	126	72	10	4.4	73	7.8	3.0	28	136	85
20	5.3	145	101	24	8.3	e3.3	39	7.2	3.5	18	31	62
21	8.5	131	39	64	7.3	e3.0	27	7.2	2.7	11	45	31
22	49	23	27	85	7.2	10	18	5.9	2.3	8.6	74	21
23	20	41	74	55	15	7.7	15	6.7	3.6	7.6	28	92
24	81	90	109	62	35	6.5	15	9.0	6.8	6.2	13	123
25	34	61	35	23	35	6.1	13	6.5	5.0	5.2	62	83
26	12	54	14	26	47	6.6	12	5.0	4.0	8.5	57	22
27	47	62	11	37	44	19	11	4.0	3.2	53	35	55
28	74	46	45	91	51	18	9.0	3.5	3.3	35	20	135
29	170	38	15	55	---	16	7.1	3.3	7.5	14	14	219
30	68	89	e10	110	---	31	6.0	3.7	12	35	49	91
31	54	---	e7.0	119	---	121	---	3.0	---	52	42	---
TOTAL	1764.6	1893.3	1762.0	1043.0	970.9	988.4	833.1	250.4	119.2	894.8	929.0	1777.5
MEAN	56.9	63.1	56.8	33.6	34.7	31.9	27.8	8.08	3.97	28.9	30.0	59.2
MAX	188	225	284	119	211	121	73	40	12	72	136	220
MIN	4.6	5.7	7.0	2.0	7.2	3.0	6.0	3.0	1.3	5.2	3.0	9.2
MED	48	50	34	5.0	18	18	26	5.9	3.3	23	20	40
AC-FT	3500	3760	3490	2070	1930	1960	1650	497	236	1770	1840	3530
CFSM	12.0	13.3	12.0	7.11	7.33	6.74	5.87	1.71	0.84	6.10	6.34	12.5
IN.	13.88	14.89	13.86	8.20	7.64	7.77	6.55	1.97	0.94	7.04	7.31	13.98

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)#

MEAN	51.8	46.1	59.1	46.2	30.8	32.4	25.7	27.8	22.4	22.5	29.5	60.9
MAX	56.9	63.1	79.0	59.4	40.6	44.1	36.5	59.9	69.3	32.4	61.2	82.0
(WY)	2005	2005	2004	2001	2002	2004	2001	2001	2001	2001	2002	2003
MIN	39.2	37.3	46.8	33.6	16.1	13.3	13.5	8.08	3.97	11.0	12.4	45.8
(WY)	2003	2002	2002	2005	2003	2002	2003	2005	2005	2003	2004	2004

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

## 15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005#	
ANNUAL TOTAL	13043.8		132227.2			
ANNUAL MEAN	35.6		36.3		35.5	
HIGHEST ANNUAL MEAN					37.1	
LOWEST ANNUAL MEAN					32.8	
HIGHEST DAILY MEAN					404	
LOWEST DAILY MEAN	284	Dec 2	284	Dec 2	b1.3	Oct 25 2003
ANNUAL SEVEN-DAY MINIMUM	a1.3	Jun 24	1.3	Jun 9	b1.3	Jun 24 2004
MAXIMUM PEAK FLOW	1.5	Jun 20	1.6	Jun 3	1.5	Jun 20 2004
MAXIMUM PEAK STAGE			593	Dec 2	745	Oct 26 2003
INSTANTANEOUS LOW FLOW			10.06	Dec 2	10.40	Oct 26 2003
ANNUAL RUNOFF (AC-FT)	25870		c1.2	Jun 8	d1.2	Jun 23 2004
ANNUAL RUNOFF (CFSM)	7.53		7.66		7.50	
ANNUAL RUNOFF (INCHES)	102.59		104.03		101.91	
10 PERCENT EXCEEDS	101		90		90	
50 PERCENT EXCEEDS	14		20		16	
90 PERCENT EXCEEDS	3.5		3.8		4.0	

# See Period of Record, partial years used in monthly statistics

a June 24-25

b June 24-25, 2004, June 9, 2005

c June 8-9

d June 23-26, 2004 and June 8-9, 2005

15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2004 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 2004 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder since May 2004, recording interval 15-minutes.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross-section on June 20 and August 17. A variation of 0.1°C was found in the temperature cross sections. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 18.5°C, June 20, 2004; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.5°C, August 9-11; minimum, 0.0°C, on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Location in X-sect. looking downstrm ft from l bank (00009)	Specific conductance wat unf 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
JUN									
20...	1621	2.00	55	7.9	13.5	18.5	755	10.4	101
20...	1622	7.00	55	7.9	13.5	18.5	755	10.3	100
20...	1623	12.0	55	7.9	13.5	18.5	755	10.4	101
20...	1624	17.0	55	7.9	13.5	18.5	755	10.4	101
20...	1625	22.0	55	7.9	13.5	18.5	755	10.4	101
AUG									
17...	1550	2.00	65	7.7	14.0	17.5	754	9.7	95
17...	1551	4.00	65	7.6	14.0	17.5	754	9.7	95
17...	1552	6.00	65	7.6	14.0	17.5	754	9.7	95
17...	1553	8.00	65	7.7	14.0	17.5	754	9.6	94
17...	1554	10.0	64	7.7	14.0	17.5	754	9.6	94

  

Date	Time	Medium code	Sample type	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Stream width, feet (00004)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)
DEC													
09...	1445	9	9	7.40	27	10	26.5	737	13.5	98	7.2	34	1.5
FEB													
24...	1330	9	9	7.40	25	10	44.5	750	13.1	96	7.6	28	.5
APR													
13...	1430	9	9	7.26	19	10	35.0	750	11.3	88	7.2	25	4.0
JUN													
20...	1645	9	9	6.79	3.0	10	24.0	755	10.4	101	7.9	55	18.5
AUG													
17...	1545	9	9	6.78	3.2	10	12.0	754	9.7	95	7.6	65	17.5

  

Date	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium water, fltrd, mg/L (00925)	Magnesium water, unfltrd recover-able, mg/L (00927)	Potassium water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
DEC													
09...	1.0	12	3.66	--	.609	--	.17	2.19	12	14	4.63	<.1	2.28
FEB													
24...	2.0	10	3.29	--	.460	--	E.16	1.59	10	11	2.03	<.1	2.32
APR													
13...	4.0	9	2.84	--	.425	--	.23	1.51	7	8	2.12	<.1	1.75
JUN													
20...	13.5	23	7.83	7.88	.895	.84	E.15	1.81	22	26	1.74	<.1	3.04
AUG													
17...	14.0	31	10.5	10.6	1.07	1.08	.19	1.96	25	31	1.81	<.1	3.56



15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitro-gen, susp, water, mg/L (49570)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd, mg/L (00665)	Total carbon, suspdn sediment total, mg/L (00694)
DEC 09...	.9	21	31	E.05	E.10	<.010	<.016	E.001	--	<.006	E.003	E.004	--
FEB 24...	.6	--	27	.10	.10	<.010	E.009	.002	--	<.006	E.004	E.003	--
APR 13...	.8	14	24	E.05	.10	E.006	.047	E.001	--	<.006	<.004	E.004	--
JUN 20...	1.2	--	34	E.08	.10	<.010	.018	<.002	<.02	<.006	.006	.005	.1
AUG 17...	.9	36	50	.10	.13	<.010	.044	E.001	<.02	<.006	E.003	E.003	<.1

Date	Organic carbon, water, fltrd, mg/L (00681)	Alum-inum, water, fltrd, ug/L (01106)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Anti-mony, water, fltrd, ug/L (01095)	Anti-mony, water, unfltrd, ug/L (01097)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover-able, ug/L (01007)	Beryll-ium, water, fltrd, ug/L (01010)	Beryll-ium, water, unfltrd recover-able, ug/L (01012)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recover-able, ug/L (01022)	Cadmium water, fltrd, ug/L (01025)
DEC 09...	4.2	--	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	5.4	--	--	--	--	--	--	--	--	--	--	--	--
APR 13...	4.5	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	3.9	47	52	<.20	<.2	E.1	6	6	<.06	<.06	E7	<8	<.04
AUG 17...	3.5	50	67	<.20	<.2	E.1	7	7	<.06	<.06	E7	E5	<.04

Date	Cadmium water, unfltrd, ug/L (01027)	Chrom-ium, water, fltrd, ug/L (01030)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, fltrd, ug/L (01035)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover-able, ug/L (01051)	Lithium water, fltrd, ug/L (01130)	Lithium water, unfltrd recover-able, ug/L (01132)
DEC 09...	--	--	--	--	--	--	--	111	--	--	--	--	--
FEB 24...	--	--	--	--	--	--	--	120	--	--	--	--	--
APR 13...	--	--	--	--	--	--	--	75	--	--	--	--	--
JUN 20...	<.04	<.8	<.8	.033	.056	.7	.8	84	110	<.08	<.06	<.6	<.6
AUG 17...	<.04	<.8	<.8	.046	.062	.5	E.5	84	120	E.05	E.05	<.6	<.6

Date	Mangan-ese, water, fltrd, ug/L (01056)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, fltrd, ug/L (01060)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, fltrd, ug/L (01145)	Selen-ium, water, unfltrd recover-able, ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover-able, ug/L (01077)	Stront-ium, water, fltrd, ug/L (01080)
DEC 09...	4.7	--	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	1.6	--	--	--	--	--	--	--	--	--	--	--	--
APR 13...	1.3	--	--	--	--	--	--	--	--	--	--	--	--
JUN 20...	1.5	3	<.01	<.01	<.4	<.2	.50	N	<.4	E.3	<.2	<.16	22
AUG 17...	1.8	5	<.01	E.01	<.4	<.2	.38	.41	<.4	.4	<.2	<.16	28

Date	Stront-ium, water, unfltrd recover-able, ug/L (01082)	Thall-ium, water, fltrd, ug/L (01057)	Thall-ium, water, unfltrd, ug/L (01059)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Sus-pended sedi-ment concentration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Sampler type code (84164)
DEC 09...	--	--	--	--	--	--	--	1	.07	3044
FEB 24...	--	--	--	--	--	--	--	--	--	3044
APR 13...	--	--	--	--	--	--	--	1	.05	3044
JUN 20...	21	<.04	<.2	.4	1.5	3	<.04	1	.01	3044
AUG 17...	27	<.04	<.2	.4	1.7	7	<.04	<1	--	3044

E Estimated

## 15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	8.5	9.0	4.5	4.0	4.5	5.5	4.5	5.0	0.0	0.0	0.0
2	9.5	8.5	9.0	4.5	3.5	4.0	6.0	5.0	5.5	0.0	0.0	0.0
3	9.0	8.0	8.5	6.0	4.0	5.0	5.0	3.0	4.0	0.0	0.0	0.0
4	10.0	9.0	9.5	5.0	3.5	4.0	3.0	1.5	2.5	0.0	0.0	0.0
5	10.0	9.0	10.0	3.5	2.5	3.0	1.5	1.0	1.0	0.0	0.0	0.0
6	9.0	8.5	9.0	2.5	1.5	2.0	1.0	0.5	1.0	0.0	0.0	0.0
7	9.0	8.5	8.5	2.0	2.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0
8	9.0	8.0	8.5	2.0	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
9	9.5	8.5	9.0	1.5	1.0	1.0	1.5	0.5	1.0	0.0	0.0	0.0
10	9.5	8.0	9.0	1.0	0.5	1.0	1.5	0.5	1.0	0.0	0.0	0.0
11	8.5	7.5	8.0	1.0	0.0	0.5	1.5	0.5	1.0	0.0	0.0	0.0
12	10.5	7.5	8.5	3.0	1.0	2.0	1.5	1.0	1.5	0.0	0.0	0.0
13	10.5	10.0	10.5	4.5	3.0	3.5	2.5	1.5	2.0	0.0	0.0	0.0
14	10.5	9.5	10.5	4.5	4.0	4.5	2.5	2.0	2.5	0.0	0.0	0.0
15	9.5	8.0	9.0	4.5	4.0	4.5	3.5	2.0	3.0	0.0	0.0	0.0
16	8.0	6.5	7.0	4.0	3.0	3.5	4.5	3.5	4.0	0.0	0.0	0.0
17	6.5	5.0	6.0	3.0	2.0	2.5	5.0	4.0	4.5	0.0	0.0	0.0
18	5.5	4.0	4.5	2.5	1.5	2.0	6.5	5.0	6.0	1.0	0.0	0.5
19	4.0	2.5	3.0	4.0	2.5	3.5	5.5	3.5	4.0	1.5	1.0	1.0
20	3.5	3.0	3.0	6.5	4.0	5.5	3.5	2.5	3.0	1.0	0.5	1.0
21	4.0	2.5	3.5	6.0	4.0	5.0	3.0	2.0	2.5	2.0	1.0	1.5
22	4.0	3.0	4.0	4.0	3.0	3.5	4.5	3.0	3.5	2.0	1.5	2.0
23	3.0	2.5	3.0	4.5	3.0	3.5	5.0	4.5	5.0	2.0	1.5	2.0
24	4.5	3.0	4.0	5.0	4.0	4.5	5.0	2.5	4.0	2.0	1.5	1.5
25	4.5	3.5	4.0	4.0	2.5	3.0	2.5	1.0	1.5	2.0	1.0	1.5
26	3.5	2.5	3.0	3.5	3.0	3.0	1.5	0.0	0.5	3.0	2.0	2.5
27	5.5	3.0	4.5	4.0	3.5	3.5	1.5	0.0	0.5	3.0	3.0	3.0
28	6.0	5.0	5.5	4.0	4.0	4.0	2.0	1.5	1.5	3.0	2.5	3.0
29	6.0	5.0	5.5	4.0	3.5	4.0	1.5	0.0	0.5	3.0	2.5	2.5
30	5.0	3.0	4.0	4.5	4.0	4.5	0.0	0.0	0.0	3.5	2.5	3.0
31	4.0	3.0	3.5	---	---	---	0.0	0.0	0.0	3.0	2.0	2.5
MONTH	10.5	2.5	6.6	6.5	0.0	3.3	6.5	0.0	2.3	3.5	0.0	0.9

  

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	2.5	3.0	4.0	3.0	3.5	2.0	1.0	1.5	8.0	7.0	7.5
2	3.0	2.0	2.5	4.0	3.0	3.5	2.0	0.5	1.5	8.5	7.5	8.0
3	2.5	2.0	2.5	3.5	3.0	3.0	3.0	1.5	2.0	9.0	8.0	8.5
4	2.5	0.5	1.0	3.5	3.0	3.5	3.5	2.0	2.5	9.0	7.0	8.0
5	0.5	0.0	0.0	3.5	2.5	3.0	3.5	2.5	3.0	9.5	8.0	8.5
6	0.0	0.0	0.0	3.5	2.0	3.0	4.5	2.5	3.5	9.5	6.5	8.0
7	0.0	0.0	0.0	4.5	3.5	4.0	5.0	3.5	4.0	10.5	8.5	9.5
8	1.0	0.0	0.5	5.0	4.5	4.5	5.0	3.5	4.0	11.0	8.5	9.5
9	1.5	1.0	1.5	5.5	4.5	5.0	4.5	3.5	4.0	12.0	9.0	10.5
10	2.0	1.5	1.5	6.0	4.5	5.5	4.0	3.0	3.5	12.0	9.5	11.0
11	1.5	0.0	0.5	5.0	4.5	4.5	3.5	2.5	3.0	12.0	11.0	11.5
12	0.5	0.0	0.0	5.0	4.5	4.5	4.5	2.5	3.5	11.0	10.5	10.5
13	0.5	0.0	0.0	5.5	3.5	4.5	4.5	2.5	3.5	11.0	10.0	10.5
14	0.0	0.0	0.0	4.5	3.0	4.0	4.5	2.5	3.5	11.0	9.0	10.0
15	1.0	0.0	0.5	4.5	3.0	4.0	4.0	3.0	3.5	10.5	8.5	9.5
16	1.0	0.5	1.0	3.0	2.0	2.5	6.0	3.5	4.5	10.5	8.5	9.5
17	1.0	0.5	1.0	2.0	1.5	2.0	6.0	3.5	5.0	11.0	8.5	10.0
18	1.0	1.0	1.0	1.5	0.5	1.0	5.5	4.0	5.0	11.5	9.0	10.5
19	1.0	0.0	0.5	0.5	0.0	0.0	6.0	5.0	5.5	11.0	9.5	10.5
20	0.5	0.0	0.5	0.0	0.0	0.0	6.5	5.0	6.0	10.5	9.5	10.0
21	1.5	0.5	1.0	0.0	0.0	0.0	7.0	6.0	6.5	10.5	9.5	10.0
22	1.5	1.0	1.5	1.5	0.0	1.0	8.0	4.5	6.0	11.0	9.0	10.0
23	1.5	1.0	1.5	2.0	0.5	1.0	9.5	5.5	7.5	10.0	9.0	9.5
24	2.0	1.0	1.5	1.5	0.5	1.5	11.5	7.5	9.0	10.5	9.0	9.5
25	2.0	1.0	1.5	3.0	1.5	2.0	9.5	8.5	8.5	11.0	9.0	10.0
26	2.5	2.0	2.0	4.5	3.0	3.5	10.5	7.5	9.0	12.5	10.0	11.5
27	2.5	1.5	2.0	4.0	2.5	3.5	11.5	9.0	10.0	11.5	10.5	11.0
28	3.5	2.5	3.0	3.5	2.0	2.5	10.5	8.5	9.5	11.5	9.5	10.5
29	---	---	---	3.0	2.0	2.5	9.5	7.5	8.5	11.0	10.0	10.5
30	---	---	---	3.0	2.0	2.5	8.0	7.5	8.0	12.0	10.0	11.0
31	---	---	---	3.0	2.0	2.5	---	---	---	12.0	10.0	11.0
MONTH	3.5	0.0	1.1	6.0	0.0	2.8	11.5	0.5	5.2	12.5	6.5	9.9

## SOUTHEAST ALASKA

## 15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	10.5	11.5	12.0	11.5	11.5	14.0	11.5	13.0	12.0	11.5	11.5
2	12.0	9.0	10.5	12.0	11.0	11.5	14.0	12.0	13.0	12.0	11.0	11.5
3	11.0	9.5	10.5	12.0	11.5	12.0	14.0	13.0	13.0	12.0	10.5	11.5
4	11.5	10.0	10.5	13.5	11.5	12.5	13.0	12.0	12.5	12.0	9.5	10.5
5	11.5	8.5	10.0	13.0	12.0	12.5	12.5	12.0	12.5	12.0	10.5	11.0
6	12.0	9.0	10.5	12.5	11.5	12.0	13.0	12.0	12.5	12.0	11.5	11.5
7	12.5	10.0	11.0	12.0	11.0	11.5	14.5	12.0	13.0	12.0	11.5	12.0
8	12.5	9.5	11.0	13.0	11.5	12.0	16.0	12.5	14.0	12.0	11.0	11.5
9	11.0	9.5	10.5	13.0	12.0	12.5	16.5	13.0	15.0	12.5	10.0	11.0
10	11.0	10.0	10.5	13.0	11.5	12.5	16.5	14.5	15.5	12.0	10.5	11.5
11	11.0	9.5	10.0	14.0	12.0	13.0	16.5	14.5	15.5	12.5	12.0	12.0
12	11.0	9.0	10.0	14.0	12.0	13.0	16.0	14.0	15.0	12.5	11.5	12.0
13	11.0	9.5	10.0	13.5	12.5	12.5	16.0	14.5	15.0	12.0	12.0	12.0
14	11.5	10.0	10.5	12.5	11.5	12.0	15.0	14.0	14.5	12.0	11.5	12.0
15	11.0	9.5	10.5	13.0	12.0	12.5	14.5	13.5	14.0	12.0	11.0	11.5
16	13.0	9.0	11.0	13.5	11.0	12.5	14.5	13.0	13.5	11.0	10.0	10.5
17	15.0	11.5	13.0	13.0	12.0	12.5	14.0	12.5	13.0	11.0	10.5	10.5
18	16.0	13.0	14.5	12.5	11.5	12.0	14.0	13.5	13.5	11.0	10.5	10.5
19	14.5	13.0	13.5	13.0	11.5	12.5	15.0	13.0	14.0	10.5	10.0	10.0
20	13.0	12.0	12.5	13.5	12.0	13.0	14.0	13.0	13.5	10.5	9.0	10.0
21	12.5	11.0	12.0	13.5	12.5	13.0	13.5	12.0	13.0	10.0	9.0	9.5
22	11.5	11.0	11.5	13.0	12.0	12.5	13.5	12.0	13.0	9.5	8.5	9.0
23	11.5	10.5	11.0	13.5	12.5	13.0	14.5	12.0	13.0	10.5	9.5	10.0
24	12.5	11.0	11.5	14.0	12.5	13.5	14.5	12.0	13.0	11.0	10.0	10.5
25	13.0	11.5	12.0	13.5	12.5	13.0	14.0	13.0	13.5	11.0	9.5	10.5
26	14.5	11.0	12.5	13.0	12.5	13.0	13.5	12.5	13.0	9.5	8.0	9.0
27	14.5	11.5	13.0	13.5	12.5	13.0	13.5	12.0	13.0	9.5	7.5	8.0
28	13.5	13.0	13.0	13.5	12.5	13.0	14.0	12.0	13.0	10.0	9.5	9.5
29	13.0	12.0	12.5	13.5	12.5	13.0	12.5	11.5	12.0	9.5	8.5	9.0
30	12.5	11.5	12.0	13.0	12.0	12.5	12.5	12.0	12.0	9.0	8.0	9.0
31	---	---	---	13.5	11.5	12.5	12.0	11.5	12.0	---	---	---
MONTH	16.0	8.5	11.4	14.0	11.0	12.5	16.5	11.5	13.4	12.5	7.5	10.6

15085100 OLD TOM CREEK NEAR KASAAN

LOCATION.--Lat 55°23'44", long 132°24'25", in NW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec. 6, T. 75 S., R. 86 E. (Craig B-2 quad) Hydrologic Unit 19010103, on Prince of Wales Island, in Tongass National Forest, on left bank 1,000 ft upstream from mouth at Skowl Arm of Kasaan Bay, 0.4 mi downstream from unnamed tributary, and 10 mi south of Kasaan.

DRAINAGE AREA.--5.90 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1949 to current year.

REVISED RECORDS.--WDR AK-85-1: 1950-1983 (P), 1984.

GAGE.--Water-stage recorder. Elevation of gage is 10 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)
Oct 08	0700	517	4.54	Dec 16	0615	*686	*5.04
Oct 31	2330	459	4.35	Feb 01	1300	453	4.33
Nov 03	2030	562	4.68	Mar 03	1730	592	4.77
Nov 14	0515	514	4.53	Mar 31	0215	606	4.81
Dec 02	1830	483	4.43				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	235	33	e11	262	71	56	13	7.2	4.6	23	31
2	8.2	93	189	e10	95	98	119	13	6.5	5.4	14	28
3	7.3	273	122	9.6	45	285	181	14	6.1	16	13	33
4	32	236	51	8.1	34	215	106	13	6.1	20	14	22
5	180	78	32	7.7	25	80	196	11	5.4	27	11	17
6	189	40	24	7.2	18	56	114	9.9	5.1	34	11	18
7	133	29	20	e5.7	15	64	53	9.1	4.6	26	12	23
8	445	23	17	e5.0	17	139	41	8.5	4.4	20	9.8	29
9	143	19	36	e4.5	39	67	39	8.0	4.3	19	8.4	21
10	59	17	36	e4.0	95	101	47	7.5	6.1	32	7.3	17
11	40	15	29	e3.6	49	67	49	7.2	5.4	22	6.3	14
12	57	20	24	e3.4	35	39	49	7.2	5.8	15	5.2	12
13	122	156	34	e3.4	23	28	38	16	6.1	12	4.3	11
14	55	268	46	e3.7	18	22	36	80	8.0	39	4.0	10
15	35	67	67	e4.5	15	19	68	40	6.8	53	4.4	9.8
16	24	53	273	e5.7	15	18	80	29	6.6	29	4.7	8.7
17	19	40	67	99	15	15	44	30	5.4	19	4.5	8.4
18	15	29	115	39	14	13	33	20	4.7	15	4.9	40
19	13	23	151	35	13	11	62	17	4.4	13	20	47
20	11	33	58	22	11	9.7	49	30	4.3	11	12	49
21	12	74	38	144	10	12	45	101	3.9	10	12	39
22	38	33	27	191	10	25	36	35	3.7	9.8	23	24
23	22	34	30	92	13	17	31	29	3.9	8.5	22	19
24	84	53	47	56	16	13	30	29	4.4	7.5	14	16
25	46	51	32	37	23	18	28	24	4.3	6.7	12	15
26	26	51	22	67	50	53	25	17	4.0	6.7	26	13
27	26	33	17	69	42	37	23	13	3.9	8.0	53	29
28	44	27	29	128	52	28	20	11	3.7	8.5	68	180
29	170	90	23	67	---	26	16	9.8	3.8	7.4	30	106
30	65	41	16	181	---	47	14	8.9	4.6	9.1	27	54
31	96	---	e12	138	---	231	---	8.1	---	40	35	---
TOTAL	2226.0	2234	1717	1462.1	1069	1924.7	1728	669.2	153.5	554.2	515.8	943.9
MEAN	71.8	74.5	55.4	47.2	38.2	62.1	57.6	21.6	5.12	17.9	16.6	31.5
MAX	445	273	273	191	262	285	196	101	8.0	53	68	180
MIN	7.3	15	12	3.4	10	9.7	14	7.2	3.7	4.6	4.0	8.4
AC-FT	4420	4430	3410	2900	2120	3820	3430	1330	304	1100	1020	1870
CFSM	12.2	12.6	9.39	7.99	6.47	10.5	9.76	3.66	0.87	3.03	2.82	5.33
IN.	14.04	14.09	10.83	9.22	6.74	12.14	10.90	4.22	0.97	3.49	3.25	5.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)#

	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	70.0	66.1	60.5	50.0	45.1	39.4	48.0	42.0	25.5	13.1	15.3	32.6																																													
MAX	163	166	142	128	117	86.3	122	99.1	56.1	31.0	50.9	93.6																																													
(WY)	1978	2000	2004	1992	1998	1984	1980	1999	1950	1991	2001	2001																																													
MIN	23.0	17.1	8.29	3.00	5.00	10.1	19.1	11.4	5.12	2.66	1.81	2.69																																													
(WY)	2003	1966	1984	1950	1950	1956	1967	2004	2005	1958	1993	1965																																													

# See Period of Record; partial year was used in monthly statistics.  
e Estimated

## SOUTHEAST ALASKA

## 15085100 OLD TOM CREEK NEAR KASAAN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005#	
ANNUAL TOTAL	14309.3		15197.4			
ANNUAL MEAN	39.1		41.6		42.3	
HIGHEST ANNUAL MEAN					63.1 2000	
LOWEST ANNUAL MEAN					25.2 1951	
HIGHEST DAILY MEAN	445	Oct 8	445	Oct 8	858	Oct 23 1990
LOWEST DAILY MEAN	a1.9	Aug 15	b3.4	Jan 12	0.28	Nov 14 1965
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 13	3.9	Jan 9	0.55	Nov 13 1965
MAXIMUM PEAK FLOW			686	Dec 16	c1490	Apr 16 1952
MAXIMUM PEAK STAGE			5.04	Dec 16	6.96	Apr 16 1952
INSTANTANEOUS LOW FLOW					0.16	Nov 15 1965
ANNUAL RUNOFF (AC-FT)	28380		30140		30610	
ANNUAL RUNOFF (CFSM)	6.63		7.06		7.16	
ANNUAL RUNOFF (INCHES)	90.22		95.82		97.31	
10 PERCENT EXCEEDS	94		100		95	
50 PERCENT EXCEEDS	20		23		24	
90 PERCENT EXCEEDS	3.7		5.4		6.5	

# See Period of Record; partial year was used in monthly statistics.

a Aug. 15, 16, and 18

b Jan. 12 and 13

c From rating curve extended above 330 ft<sup>3</sup>/s

15085100 OLD TOM CREEK NEAR KASAAN—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1959, and 1965 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1964, April 1965 to February 1975, June 1975 to April 1978, and November 1978 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for 15-minute recording interval since April 11, 1996.

REMARKS.--Record missing from December 2-3, 7-8, and January 17-21 due to faulty probe. Records represent water-temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on August 16. No variation was found within the cross section. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 18.5°C, July 3, 1998, and June 23, 2004; minimum, 0.0°C, on many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 17.5°C, August 13; minimum, 0.0°C, on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking downstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
AUG								
16...	0915	23.9	2.00	1.71	4.5	10	14.1	15.2
16...	0916	23.9	6.00	1.71	4.5	10	14.1	15.2
16...	0917	23.9	10.0	1.71	4.5	10	14.1	15.2
16...	0918	23.9	14.0	1.71	4.5	10	14.1	15.2
16...	0919	23.9	18.0	1.71	4.5	10	14.1	15.2
16...	0920	23.9	22.0	1.71	4.5	10	14.1	15.2

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.0	8.0	8.5	6.0	5.5	6.0	5.5	5.0	5.0	0.0	0.0	0.0
2	10.0	8.5	9.0	6.0	5.5	5.5	---	5.5	---	0.0	0.0	0.0
3	9.0	8.5	9.0	6.5	5.5	6.0	---	---	---	0.5	0.0	0.5
4	10.0	9.0	9.5	6.5	5.0	5.5	4.0	2.5	3.5	1.0	0.5	1.0
5	10.0	9.5	10.0	5.5	4.5	5.0	3.0	2.5	3.0	1.5	1.0	1.0
6	10.0	9.0	9.5	4.5	4.0	4.0	2.5	2.0	2.5	1.5	0.0	1.0
7	9.5	9.0	9.5	4.0	3.5	4.0	---	---	---	0.0	0.0	0.0
8	9.0	9.0	9.0	4.0	3.0	3.5	2.0	---	---	0.0	0.0	0.0
9	9.5	9.0	9.5	3.5	3.0	3.0	2.5	2.0	2.5	0.0	0.0	0.0
10	9.5	9.0	9.5	3.0	2.5	3.0	3.0	2.5	2.5	0.0	0.0	0.0
11	9.5	9.0	9.0	3.0	2.5	2.5	3.0	2.5	3.0	0.0	0.0	0.0
12	10.0	9.0	9.0	4.0	2.5	3.5	2.5	2.5	2.5	0.0	0.0	0.0
13	10.5	10.0	10.0	5.5	4.0	4.5	3.0	2.5	3.0	0.0	0.0	0.0
14	10.5	10.0	10.0	5.5	5.0	5.5	3.5	3.0	3.5	0.0	0.0	0.0
15	10.0	9.0	9.5	5.5	5.0	5.5	4.0	3.0	3.5	0.0	0.0	0.0
16	9.0	8.0	8.0	5.0	4.5	4.5	4.5	4.0	4.5	0.0	0.0	0.0
17	8.0	7.0	7.0	4.5	4.0	4.0	4.5	4.5	4.5	---	0.0	---
18	7.0	6.0	6.5	4.0	3.5	3.5	5.5	4.5	5.0	---	---	---
19	6.0	5.0	5.5	4.5	3.5	4.0	5.5	4.5	4.5	---	---	---
20	5.0	4.5	5.0	6.0	4.5	5.0	4.5	4.0	4.0	---	---	---
21	5.5	4.5	5.0	6.0	4.5	5.5	4.0	3.5	3.5	---	---	---
22	6.0	5.0	5.5	4.5	4.0	4.5	4.0	3.5	4.0	2.5	2.0	2.5
23	5.5	4.5	5.0	4.5	4.0	4.0	4.5	4.0	4.5	2.5	2.0	2.5
24	6.0	4.5	5.5	4.5	4.5	4.5	5.0	3.5	4.5	3.0	2.0	2.5
25	6.0	5.5	6.0	4.5	4.0	4.5	3.5	2.5	3.0	2.5	2.0	2.5
26	5.5	5.0	5.0	4.5	4.0	4.0	2.5	1.5	2.0	3.5	2.5	3.0
27	6.0	5.0	5.5	4.5	4.0	4.5	2.5	1.5	2.0	3.5	3.0	3.5
28	6.5	5.5	6.0	4.5	4.0	4.5	2.5	2.0	2.5	3.5	3.0	3.0
29	7.0	6.0	6.5	5.0	4.5	5.0	2.5	1.5	2.0	3.0	3.0	3.0
30	6.5	5.5	6.0	5.0	4.5	5.0	1.5	0.0	1.0	3.5	3.0	3.5
31	5.5	5.0	5.5	---	---	---	0.0	0.0	0.0	3.5	3.0	3.0
MONTH	10.5	4.5	7.5	6.5	2.5	4.5	---	---	---	---	---	---

## SOUTHEAST ALASKA

## 15085100 OLD TOM CREEK NEAR KASAAN—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	3.0	3.0	3.5	3.0	3.0	3.5	3.0	3.0	8.0	6.5	7.0
2	3.5	3.0	3.0	3.5	3.0	3.0	3.0	2.5	2.5	8.5	7.0	7.5
3	3.0	3.0	3.0	3.5	3.0	3.0	3.5	3.0	3.0	8.0	7.0	7.5
4	3.0	2.0	2.5	3.5	3.0	3.5	4.0	3.0	3.5	8.5	6.5	7.5
5	2.0	1.0	1.5	4.0	3.0	3.5	3.5	3.0	3.5	9.5	6.5	7.5
6	1.0	0.0	0.5	3.5	2.5	3.0	4.5	3.0	4.0	10.0	6.0	7.5
7	1.5	0.5	1.0	4.0	3.5	3.5	5.0	3.5	4.0	11.0	7.0	8.5
8	2.0	1.5	1.5	4.5	4.0	4.0	5.5	3.5	4.5	11.5	7.5	9.0
9	2.0	1.5	2.0	4.5	4.0	4.5	5.0	4.0	4.0	12.0	8.0	9.5
10	2.5	2.0	2.5	5.0	4.5	5.0	4.0	3.5	4.0	12.0	8.5	10.0
11	2.0	0.5	1.0	5.0	4.0	4.5	5.0	3.5	4.0	11.5	10.0	10.5
12	1.5	0.5	1.5	5.0	4.0	4.5	5.0	3.5	4.0	10.5	9.5	10.0
13	1.5	1.0	1.5	4.5	4.0	4.0	5.0	3.5	4.0	10.0	9.5	9.5
14	1.5	0.5	1.0	4.5	3.5	4.0	5.0	3.5	4.5	9.5	8.5	9.0
15	2.0	1.0	1.5	4.5	3.5	4.0	4.5	4.0	4.5	10.0	8.0	9.0
16	2.0	1.5	2.0	3.5	3.0	3.0	5.0	4.0	4.5	10.0	8.5	9.0
17	2.0	1.5	2.0	3.0	2.5	2.5	6.0	4.0	4.5	10.0	8.5	9.0
18	2.5	1.5	2.0	3.0	2.0	2.0	5.0	3.5	4.5	10.0	8.0	9.0
19	2.0	1.0	1.5	2.0	1.0	1.5	5.5	4.5	5.0	10.0	9.0	9.5
20	1.5	1.0	1.0	1.5	0.5	1.0	6.0	5.0	5.5	9.5	9.0	9.0
21	2.5	1.5	2.0	1.5	1.0	1.0	7.0	5.0	6.0	9.5	8.0	8.5
22	2.5	1.5	2.0	2.5	1.5	2.0	7.0	4.5	5.5	10.5	8.5	9.0
23	2.5	1.5	2.0	3.0	1.5	2.0	7.5	5.0	6.0	9.5	9.0	9.0
24	2.5	1.5	2.0	2.5	1.5	2.0	8.0	5.5	6.5	10.0	8.5	9.0
25	2.5	1.5	2.0	3.0	2.0	2.5	8.0	6.0	7.0	11.0	8.5	9.5
26	2.5	2.0	2.5	4.0	2.5	3.5	8.5	6.0	7.0	11.5	9.5	10.5
27	3.0	2.0	2.5	4.0	3.0	3.5	9.5	7.0	8.0	12.0	10.0	11.0
28	3.0	2.5	3.0	3.5	3.0	3.5	9.0	7.0	7.5	12.0	10.0	11.0
29	---	---	---	3.5	3.0	3.0	9.0	6.0	7.0	11.5	10.0	11.0
30	---	---	---	3.5	3.0	3.5	7.5	6.0	6.5	13.0	10.5	11.5
31	---	---	---	4.0	3.0	3.5	---	---	---	12.5	10.5	11.5
MONTH	3.5	0.0	1.9	5.0	0.5	3.1	9.5	2.5	4.9	13.0	6.0	9.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	10.5	11.5	13.0	11.5	12.5	13.5	11.5	12.0	12.5	11.5	12.0
2	13.0	9.5	11.0	12.5	12.0	12.0	13.0	11.5	12.0	12.5	11.5	12.0
3	12.0	10.0	11.0	12.5	11.5	12.0	13.0	12.0	12.5	12.0	11.0	11.5
4	12.0	10.0	11.0	12.5	11.5	12.0	12.5	11.5	12.0	11.5	10.5	11.0
5	12.5	9.0	10.5	12.5	11.5	12.0	13.0	12.0	12.5	12.0	11.0	11.5
6	13.5	9.5	11.5	12.0	11.0	11.5	13.5	12.0	12.5	12.0	11.5	11.5
7	14.0	10.5	12.0	11.5	11.0	11.5	14.0	11.5	12.5	12.0	11.5	12.0
8	13.5	10.5	12.0	12.5	11.0	11.5	15.0	11.5	13.0	12.0	11.5	11.5
9	12.5	10.5	11.5	13.0	11.5	12.0	15.5	12.5	13.5	11.5	10.5	11.0
10	12.0	10.5	11.5	12.0	11.5	12.0	16.5	13.0	14.0	11.5	10.5	11.0
11	12.5	10.5	11.5	13.5	11.5	12.5	17.0	13.0	14.5	12.5	11.5	12.0
12	11.5	10.5	11.0	13.0	12.0	12.5	17.0	13.5	15.0	13.0	12.0	12.0
13	11.0	10.0	10.5	13.0	12.0	12.5	17.5	14.0	15.5	12.5	11.5	12.0
14	12.0	10.0	11.0	12.5	11.5	12.0	16.5	14.5	15.0	12.0	11.0	11.5
15	11.5	9.5	10.5	12.0	11.5	11.5	15.5	14.5	15.0	11.5	10.5	11.0
16	13.5	9.5	11.5	13.0	11.0	12.0	16.0	14.0	15.0	11.0	9.5	10.5
17	15.0	10.5	12.5	13.5	12.5	13.0	16.5	13.0	14.5	11.5	10.5	11.0
18	16.0	12.0	13.5	13.5	12.0	12.5	15.0	14.0	14.5	11.0	10.5	11.0
19	14.0	13.0	13.5	13.0	12.0	12.5	14.5	13.0	14.0	11.0	10.0	10.5
20	13.5	12.0	13.0	12.5	11.5	12.0	13.0	12.0	12.5	10.5	10.0	10.5
21	13.5	11.0	12.0	13.5	12.0	12.5	13.5	12.5	13.0	10.5	9.5	10.0
22	12.5	11.0	12.0	13.5	11.0	12.0	13.0	12.5	12.5	10.0	9.0	9.5
23	12.0	11.0	11.5	14.0	12.0	13.0	14.0	12.0	13.0	10.5	10.0	10.0
24	13.5	11.5	12.5	14.0	11.5	12.5	14.0	12.0	13.0	11.0	10.5	10.5
25	13.5	12.0	12.5	13.0	12.0	12.5	13.5	13.0	13.0	11.0	10.0	10.5
26	15.5	12.0	13.5	13.0	12.5	13.0	13.0	12.0	12.5	10.0	8.5	9.0
27	15.0	12.5	13.5	14.0	12.5	13.0	12.5	12.0	12.5	9.0	8.0	8.5
28	14.0	13.0	13.5	13.5	12.5	13.0	13.0	12.0	12.5	10.5	9.0	10.0
29	13.5	12.5	13.0	13.0	12.0	12.5	13.0	12.5	13.0	10.5	9.5	10.0
30	13.0	12.5	13.0	13.0	11.5	12.5	13.0	12.5	12.5	10.0	9.5	9.5
31	---	---	---	12.5	11.5	12.0	12.5	11.5	12.0	---	---	---
MONTH	16.0	9.0	12.0	14.0	11.0	12.3	17.5	11.5	13.3	13.0	8.0	10.8

## 15085800 MAYBESO CREEK NEAR HOLLIS

LOCATION.--Lat 55°29'26", long 132°40'31", in SW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 32, T. 73 S., R. 84 E. (Craig B-3 quad), Hydrologic Unit 19010103, on Prince of Wales Island, on right bank, 800 ft downstream from unnamed tributary, 2,200 ft upstream from mouth, and 0.5 mi northwest of Hollis.

DRAINAGE AREA.--15.1 mi<sup>2</sup>

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1949 to September 1963, October 2003 to current year.(discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 35 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT PERIOD.--November 2003 through September 2004: Maximum discharge during period, 2830 ft<sup>3</sup>/s, September 24, gage height, 8.86 ft; minimum discharge, 8.6 ft<sup>3</sup>/s, August 24-26, gage height, 1.59 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	45	739	48	e15	e25	e75	e50	113	12	15	25
2	---	37	487	35	e13	e23	e132	e43	70	13	162	21
3	---	33	141	e25	e15	e37	e133	e80	49	14	88	292
4	---	29	89	e22	e23	e60	e137	e75	38	12	44	223
5	---	26	108	e19	e43	e90	e79	61	38	49	35	63
6	---	23	83	e17	e78	e103	e65	47	33	231	27	48
7	---	21	59	e25	e171	e683	e109	45	31	83	22	39
8	---	20	49	68	e344	e640	e93	41	30	51	30	33
9	---	65	42	341	e422	e225	e65	38	28	30	24	26
10	---	93	38	433	e230	e161	e88	47	24	22	20	23
11	---	175	49	171	e106	e218	e113	48	23	20	17	21
12	---	1220	69	307	e79	e116	e93	48	33	17	15	25
13	---	1200	56	603	e81	e75	e69	55	43	15	15	e300
14	---	220	40	783	e86	e68	e60	55	31	14	14	e130
15	---	215	612	252	e56	e210	e49	49	26	13	13	e100
16	---	119	516	128	e45	e341	e36	43	22	14	12	48
17	---	102	396	568	e65	e136	e29	42	20	16	13	33
18	---	81	531	682	e235	e79	e28	46	20	18	12	29
19	---	57	1210	227	e195	e57	e26	52	18	15	16	23
20	---	44	383	385	e337	e49	e24	58	17	19	28	163
21	---	36	433	394	e212	e45	e24	60	16	24	20	1010
22	---	55	1220	369	e110	e59	e33	47	15	17	16	347
23	---	70	773	e190	e76	e71	e74	37	14	14	13	838
24	---	63	267	e95	e73	e78	e285	52	14	12	13	984
25	---	219	196	e54	e55	e73	e312	72	13	20	12	171
26	---	96	104	e35	e45	e61	e364	75	13	18	12	90
27	---	63	73	e23	e36	e60	e110	55	14	16	57	160
28	---	47	55	e22	e30	e210	e67	46	13	19	81	90
29	---	53	48	e22	e28	e493	e50	53	12	28	60	66
30	e90	551	49	e21	---	e277	e46	106	12	18	56	57
31	e60	---	52	e17	---	e111	---	117	---	15	41	---
TOTAL	---	5078	8967	6381	3304	4934	2868	1743	843	879	1003	5478
MEAN	---	169	289	206	114	159	95.6	56.2	28.1	28.4	32.4	183
MAX	---	1220	1220	783	422	683	364	117	113	231	162	1010
MIN	---	20	38	17	13	23	24	37	12	12	12	21
AC-FT	---	10070	17790	12660	6550	9790	5690	3460	1670	1740	1990	10870
CFSM	---	11.2	19.2	13.6	7.55	10.5	6.33	3.72	1.86	1.88	2.14	12.1
IN.	---	12.51	22.09	15.72	8.14	12.16	7.07	4.29	2.08	2.17	2.47	13.50

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)#

	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	2004
MEAN	247	193	199	123	109	90.0	130	162	125	66.9	68.5	127
MAX	412	282	344	269	307	213	182	309	204	111	139	195
(WY)	1962	1960	1963	1963	1954	1959	1960	1956	1950	1952	1956	1952
MIN	90.9	108	40.0	12.0	10.0	30.0	85.8	49.2	28.1	18.6	19.4	49.7
(WY)	1958	1956	1956	1950	1950	1950	1950	1961	2004	1958	1954	1951

# See Period of Record; partial year was used in monthly statistics and break in record  
e Estimated



## SOUTHEAST ALASKA

## 15085800 MAYBESO CREEK NEAR HOLLIS—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	614	335	36	935	195	92	e39	e20	22	68	153
2	39	337	1820	33	352	356	135	e42	e19	31	39	96
3	35	1350	539	32	186	422	170	e49	e18	211	75	77
4	142	612	191	30	154	363	128	e49	e17	126	163	59
5	630	223	117	28	105	173	242	e40	e16	211	103	49
6	635	137	89	27	75	127	222	e35	e15	226	141	245
7	357	102	72	24	65	195	101	e37	e14	230	91	397
8	608	86	63	21	93	610	80	e41	e14	80	51	207
9	209	72	118	e17	239	227	105	e46	e13	51	39	91
10	267	63	121	e15	383	496	169	e51	e14	137	32	61
11	134	57	117	e15	151	284	152	e49	e16	73	28	51
12	403	65	118	e13	96	120	88	e30	e16	44	25	45
13	652	551	111	e12	73	77	65	e27	e16	35	22	58
14	201	682	250	e11	60	59	55	e31	e18	265	20	46
15	120	320	263	e14	52	49	95	e102	e19	260	19	40
16	92	232	712	18	52	42	e132	e109	e20	87	18	37
17	70	143	212	224	53	35	e105	e86	e15	57	16	59
18	58	92	663	234	51	30	e86	e55	e13	65	19	378
19	49	100	640	351	47	25	e355	e44	e11	51	290	414
20	44	537	342	118	40	22	e194	e41	10	40	119	291
21	60	565	178	342	37	22	e138	e51	9.1	41	159	136
22	201	136	168	497	37	24	e107	e49	8.7	37	274	80
23	78	151	402	292	45	23	e86	e79	12	48	114	128
24	318	355	497	185	75	21	e81	e97	29	37	62	147
25	155	306	165	99	111	21	e75	e60	21	29	156	206
26	78	256	90	175	159	37	e60	e43	15	31	168	77
27	207	209	68	268	120	94	e54	e35	12	106	174	179
28	354	175	138	449	169	51	e47	e29	13	74	132	734
29	667	221	84	242	---	41	e38	e27	19	47	76	367
30	255	228	54	528	---	51	e34	e26	34	66	172	300
31	221	---	e40	488	---	375	---	e23	---	110	171	---
TOTAL	7384	8977	8777	4838	4015	4667	3491	1522	486.8	2928	3036	5208
MEAN	238	299	283	156	143	151	116	49.1	16.2	94.5	97.9	174
MAX	667	1350	1820	528	935	610	355	109	34	265	290	734
MIN	35	57	40	11	37	21	34	23	8.7	22	16	37
AC-FT	14650	17810	17410	9600	7960	9260	6920	3020	966	5810	6020	10330
CFSM	15.8	19.8	18.8	10.3	9.50	9.97	7.71	3.25	1.07	6.26	6.49	11.5
IN.	18.19	22.12	21.62	11.92	9.89	11.50	8.60	3.75	1.20	7.21	7.48	12.83

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)#

MEAN	247	199	204	125	112	93.8	129	155	119	68.6	70.2	129
MAX	412	299	344	269	307	213	182	309	204	111	139	195
(WY)	1962	2005	1963	1963	1954	1959	1960	1956	1950	1952	1956	1952
MIN	90.9	108	40.0	12.0	10.0	30.0	85.8	49.1	16.2	18.6	19.4	49.7
(WY)	1958	1956	1956	1950	1950	1950	1950	2005	2005	1958	1954	1951

## SUMMARY STATISTICS

## FOR 2004 CALENDAR YEAR

## FOR 2005 WATER YEAR

## WATER YEARS 1949 - 2005#

ANNUAL TOTAL	52571	55329.8	
ANNUAL MEAN	144	152	137
HIGHEST ANNUAL MEAN			157
LOWEST ANNUAL MEAN			112
HIGHEST DAILY MEAN	1820	Dec 2	3000
LOWEST DAILY MEAN	12	Jun 29	6.0
ANNUAL SEVEN-DAY MINIMUM	13	Jun 28	9.5
MAXIMUM PEAK FLOW			a4370
MAXIMUM PEAK STAGE			11.05
INSTANTANEOUS LOW FLOW			8.6
ANNUAL RUNOFF (AC-FT)	104300	109700	99560
ANNUAL RUNOFF (CFSM)	9.51	10.0	9.10
ANNUAL RUNOFF (INCHES)	129.51	136.31	123.66
10 PERCENT EXCEEDS	359	359	303
50 PERCENT EXCEEDS	63	84	85
90 PERCENT EXCEEDS	16	19	24

# See Period of Record; partial year was used in monthly statistics and break in record

a From rating curve extended above 200 ft<sup>3</sup>/s on basis of runoff comparisons with nearby stations

e Estimated

15085800 MAYBESO CREEK NEAR HOLLIS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949, 1956, 1959, 2004, and 2005 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 2003 to September 2005 (discontinued).

INSTRUMENTATION.-- Electronic water-temperature recorder since October 2003, set for 15-minute recording interval.

REMARKS.--No record from April 15 to June 20 due to recorder malfunction. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on August 17. No variation was found within the cross section. The variation between mean stream temperature and temperature sensor is less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 17.5°C, June 23-24, 2004; minimum, 0.0°C on many days during winter.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.0°C, August 13; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking downstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
AUG							
17...	1255	42.0	5.00	1.69	17	14.1	18.5
17...	1256	42.0	13.0	1.69	17	14.1	18.5
17...	1257	42.0	21.0	1.69	17	14.1	18.5
17...	1258	42.0	29.0	1.69	17	14.1	18.5
17...	1259	42.0	37.0	1.69	17	14.1	18.5

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	7.5	8.0	4.5	4.0	4.5	4.0	3.5	3.5	0.0	0.0	0.0
2	9.0	8.0	8.5	4.5	4.0	4.0	5.0	4.0	4.5	0.5	0.0	0.0
3	8.5	7.5	8.0	5.0	4.0	4.5	4.5	3.5	4.0	1.0	0.5	1.0
4	9.0	8.0	8.5	5.0	3.5	4.0	3.5	3.0	3.0	1.5	1.0	1.0
5	9.5	8.5	9.0	4.0	3.5	3.5	3.0	2.5	2.5	1.5	1.0	1.0
6	8.5	8.0	8.5	3.5	3.0	3.0	2.5	2.0	2.0	1.0	0.5	0.5
7	8.5	8.0	8.0	3.5	3.0	3.0	2.0	1.0	1.5	0.5	0.0	0.5
8	8.0	8.0	8.0	3.0	2.5	2.5	2.0	1.5	1.5	0.5	0.0	0.0
9	8.5	7.5	8.0	2.5	2.0	2.0	2.0	1.0	1.5	0.0	0.0	0.0
10	8.5	8.0	8.0	2.0	1.5	2.0	2.0	1.5	1.5	0.5	0.0	0.0
11	8.0	7.5	8.0	2.0	1.5	1.5	2.0	1.5	2.0	0.5	0.0	0.5
12	8.5	7.5	8.0	2.5	1.5	2.0	2.0	1.5	1.5	0.0	0.0	0.0
13	9.0	8.5	9.0	3.5	2.0	2.5	2.0	1.5	2.0	0.0	0.0	0.0
14	9.5	8.5	9.0	4.0	3.5	3.5	2.0	2.0	2.0	0.0	0.0	0.0
15	8.5	7.5	8.5	4.0	3.5	4.0	2.5	2.0	2.0	0.0	0.0	0.0
16	7.5	6.5	7.0	4.0	3.5	3.5	3.5	2.5	3.0	0.5	0.0	0.0
17	6.5	6.0	6.5	3.5	3.0	3.0	4.0	3.5	3.5	0.5	0.0	0.0
18	6.0	5.0	5.5	3.0	2.5	2.5	5.0	4.0	4.0	0.5	0.0	0.0
19	5.0	4.5	5.0	3.0	2.5	2.5	5.0	3.5	4.0	1.0	0.0	0.5
20	5.0	4.0	5.0	4.5	3.0	3.5	3.5	3.0	3.0	1.5	1.0	1.5
21	4.5	4.0	4.5	4.5	3.5	4.0	3.0	2.5	3.0	2.0	1.0	1.5
22	5.0	4.0	4.5	3.5	3.0	3.0	3.0	3.0	3.0	2.0	1.5	1.5
23	4.5	3.5	4.0	3.0	2.5	3.0	4.0	3.0	3.5	2.0	1.5	2.0
24	4.5	3.5	4.0	3.0	2.5	3.0	4.0	3.0	4.0	2.5	2.0	2.0
25	5.0	4.0	4.5	3.0	2.5	3.0	3.0	2.0	2.5	2.0	2.0	2.0
26	4.5	3.5	4.0	3.0	2.5	3.0	2.0	1.5	2.0	2.5	2.0	2.5
27	4.5	3.5	4.0	3.0	2.5	3.0	2.0	1.5	2.0	3.0	2.5	2.5
28	5.0	4.0	4.5	3.5	3.0	3.0	2.0	1.0	1.5	2.5	2.5	2.5
29	5.5	5.0	5.0	3.5	3.0	3.5	2.0	1.0	1.5	2.5	2.5	2.5
30	5.0	4.5	4.5	3.5	3.5	3.5	1.0	0.0	0.5	3.0	2.5	3.0
31	4.5	4.0	4.0	---	---	---	0.0	0.0	0.0	3.0	2.5	2.5
MONTH	9.5	3.5	6.5	5.0	1.5	3.1	5.0	0.0	2.5	3.0	0.0	1.0

## SOUTHEAST ALASKA

## 15085800 MAYBESO CREEK NEAR HOLLIS—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.0	2.5	2.0	1.5	2.0	3.0	2.0	2.5	---	---	---
2	2.5	2.0	2.5	2.0	1.5	2.0	2.0	1.0	2.0	---	---	---
3	2.5	2.0	2.5	2.0	1.5	2.0	3.0	1.5	2.0	---	---	---
4	2.5	1.5	1.5	2.5	2.0	2.0	3.0	2.0	2.5	---	---	---
5	1.5	0.5	1.0	3.0	2.0	2.5	2.5	2.0	2.5	---	---	---
6	1.0	0.5	0.5	2.5	2.0	2.5	4.0	2.0	3.0	---	---	---
7	1.5	1.0	1.0	3.0	2.0	2.5	5.0	2.5	3.5	---	---	---
8	1.5	1.0	1.0	3.5	3.0	3.0	4.5	3.0	3.5	---	---	---
9	1.5	0.5	1.0	4.0	3.0	3.5	4.0	3.5	3.5	---	---	---
10	1.5	0.5	1.0	4.5	3.5	4.0	3.5	3.0	3.0	---	---	---
11	1.5	0.0	0.5	4.0	3.5	4.0	4.0	2.5	3.0	---	---	---
12	1.0	0.0	1.0	4.0	3.0	3.5	4.5	3.0	3.5	---	---	---
13	1.5	0.5	1.0	4.0	3.0	3.5	4.5	3.0	3.5	---	---	---
14	1.0	0.0	1.0	3.5	2.5	3.0	4.5	2.5	3.5	---	---	---
15	2.0	1.0	1.5	4.0	3.0	3.5	---	---	---	---	---	---
16	2.0	1.5	1.5	3.5	2.5	3.0	---	---	---	---	---	---
17	2.0	1.0	1.5	3.0	2.0	2.5	---	---	---	---	---	---
18	1.5	1.0	1.5	3.0	1.5	2.0	---	---	---	---	---	---
19	1.0	0.5	1.0	2.0	1.0	1.5	---	---	---	---	---	---
20	1.0	0.0	1.0	2.5	0.5	1.5	---	---	---	---	---	---
21	2.0	1.0	1.5	2.5	1.5	2.0	---	---	---	---	---	---
22	2.0	1.5	1.5	3.5	2.0	2.5	---	---	---	---	---	---
23	2.0	0.5	1.5	3.5	1.5	2.5	---	---	---	---	---	---
24	1.5	0.5	1.0	3.5	1.5	2.5	---	---	---	---	---	---
25	1.5	0.5	1.0	3.0	2.0	2.5	---	---	---	---	---	---
26	1.5	1.0	1.5	3.5	2.5	3.0	---	---	---	---	---	---
27	1.5	1.0	1.5	3.5	2.5	3.0	---	---	---	---	---	---
28	2.0	1.5	2.0	4.0	2.5	3.0	---	---	---	---	---	---
29	---	---	---	4.5	2.5	3.5	---	---	---	---	---	---
30	---	---	---	4.0	3.0	3.5	---	---	---	---	---	---
31	---	---	---	3.0	2.5	3.0	---	---	---	---	---	---
MONTH	2.5	0.0	1.3	4.5	0.5	2.7	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.5	11.0	12.0	13.0	11.0	12.0	11.5	10.5	11.0
2	---	---	---	12.0	11.5	11.5	12.5	10.5	11.5	11.5	10.5	11.0
3	---	---	---	11.5	11.0	11.0	12.0	11.5	11.5	12.0	10.5	11.0
4	---	---	---	12.0	11.0	11.5	12.0	11.0	11.5	11.0	10.0	10.5
5	---	---	---	11.5	11.0	11.5	12.0	11.0	11.5	11.0	10.0	10.5
6	---	---	---	11.0	10.5	11.0	12.0	11.0	11.5	11.0	10.5	11.0
7	---	---	---	11.0	10.5	10.5	12.5	11.0	11.5	11.5	10.5	11.0
8	---	---	---	12.0	10.5	11.0	13.0	11.0	12.0	11.0	10.5	11.0
9	---	---	---	13.0	10.5	11.5	14.5	11.5	13.0	11.0	9.5	10.0
10	---	---	---	11.5	11.0	11.5	15.0	12.0	13.5	10.5	9.5	10.0
11	---	---	---	12.5	11.0	11.5	15.0	12.0	13.5	11.5	10.0	11.0
12	---	---	---	13.0	11.0	12.0	15.5	12.5	14.0	12.0	10.5	11.0
13	---	---	---	12.0	11.0	11.5	16.0	13.0	14.5	12.0	10.5	11.0
14	---	---	---	11.5	11.0	11.5	15.5	13.5	14.5	11.5	10.0	10.5
15	---	---	---	11.5	11.0	11.0	14.5	13.5	14.0	11.5	10.0	10.5
16	---	---	---	12.0	10.0	11.0	14.5	13.0	13.5	10.5	9.0	10.0
17	---	---	---	12.5	11.0	12.0	15.0	12.0	13.5	10.5	10.0	10.0
18	---	---	---	12.5	11.0	11.5	14.5	13.0	13.5	10.5	10.0	10.5
19	---	---	---	12.0	10.5	11.5	13.5	12.5	13.0	10.0	9.5	10.0
20	---	---	---	12.0	11.0	11.5	12.5	12.0	12.0	9.5	9.5	9.5
21	13.5	11.0	12.0	12.5	11.0	11.5	12.5	11.5	12.0	10.0	9.0	9.5
22	12.5	11.0	12.0	12.5	10.5	11.5	12.0	11.5	12.0	9.5	8.5	9.0
23	12.0	11.0	11.5	13.0	11.0	12.0	12.5	11.0	11.5	9.5	9.0	9.0
24	12.5	11.0	12.0	13.0	11.0	12.0	12.5	11.0	11.5	10.0	9.5	9.5
25	13.5	11.5	12.0	12.5	11.0	12.0	12.0	11.5	12.0	10.0	9.5	9.5
26	14.5	11.5	13.0	12.0	11.5	12.0	12.5	11.5	12.0	9.5	8.5	9.0
27	15.0	11.5	13.0	12.5	11.5	12.0	12.0	11.0	11.5	9.0	8.0	8.5
28	13.0	12.0	12.5	12.5	11.5	12.0	12.5	11.0	11.5	9.0	8.5	9.0
29	12.5	12.0	12.0	12.5	11.0	12.0	11.5	11.0	11.5	9.0	9.0	9.0
30	12.5	11.5	12.0	12.0	11.0	11.5	12.0	11.0	11.5	9.0	8.5	8.5
31	---	---	---	12.0	11.0	11.5	11.5	11.0	11.0	---	---	---
MONTH	---	---	---	13.0	10.0	11.5	16.0	10.5	12.4	12.0	8.0	10.1



## SOUTHEAST ALASKA

## 15087080 UPPER EARL WEST CREEK NEAR WRANGELL—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.0	1.0	0.5	0.0	0.5	1.5	0.0	0.5	---	---	---
2	1.0	0.5	1.0	1.0	0.5	0.5	1.0	0.0	0.5	8.0	6.5	7.0
3	1.0	1.0	1.0	1.0	0.5	1.0	2.0	0.5	1.0	6.5	5.5	6.0
4	1.0	0.0	0.5	1.0	0.5	1.0	2.5	0.5	1.5	9.0	5.5	7.0
5	0.0	0.0	0.0	2.0	1.0	1.5	2.5	1.0	2.0	9.5	6.5	7.5
6	0.0	0.0	0.0	1.5	1.0	1.0	3.0	1.0	2.0	---	---	---
7	0.0	0.0	0.0	2.0	1.0	1.5	3.5	1.0	2.0	---	---	---
8	0.0	0.0	0.0	1.5	1.0	1.0	3.0	1.0	2.0	---	---	---
9	0.0	0.0	0.0	2.0	1.0	1.5	2.5	1.5	2.0	---	---	---
10	0.0	0.0	0.0	1.5	1.0	1.5	2.5	1.0	2.0	---	---	---
11	0.0	0.0	0.0	2.0	1.0	1.5	3.0	1.5	2.5	---	---	---
12	0.0	0.0	0.0	2.5	1.5	2.0	3.5	1.0	2.5	---	---	---
13	0.0	0.0	0.0	3.0	1.5	2.0	3.5	1.0	2.5	---	---	---
14	0.0	0.0	0.0	3.0	1.0	2.0	4.0	2.5	3.0	---	---	---
15	0.0	0.0	0.0	3.0	2.0	2.5	2.5	2.0	2.0	---	---	---
16	0.0	0.0	0.0	2.5	0.5	1.5	3.5	1.5	2.5	---	---	---
17	0.0	0.0	0.0	2.5	0.0	1.0	4.0	1.5	2.5	---	---	---
18	0.0	0.0	0.0	---	---	---	4.0	1.5	3.0	---	---	---
19	0.0	0.0	0.0	---	---	---	3.0	2.0	2.5	---	---	---
20	0.0	0.0	0.0	---	---	---	4.0	2.0	3.0	11.5	9.5	10.5
21	0.0	0.0	0.0	---	---	---	4.0	2.5	3.5	10.5	8.5	9.5
22	0.0	0.0	0.0	---	---	---	---	---	---	11.5	8.0	9.5
23	0.0	0.0	0.0	---	---	---	---	---	---	10.5	9.0	9.5
24	0.0	0.0	0.0	---	---	---	---	---	---	10.5	8.5	9.5
25	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
26	0.0	0.0	0.0	3.0	1.0	2.0	---	---	---	---	---	---
27	0.0	0.0	0.0	1.5	0.5	1.0	---	---	---	---	---	---
28	0.5	0.0	0.0	2.0	0.5	1.5	---	---	---	---	---	---
29	---	---	---	3.5	1.0	2.0	---	---	---	---	---	---
30	---	---	---	2.5	1.0	2.0	---	---	---	---	---	---
31	---	---	---	2.0	0.0	0.5	---	---	---	---	---	---
MONTH	1.5	0.0	0.1	---	---	---	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14.0	12.5	13.0	14.5	11.5	13.0	11.0	10.5	11.0
2	---	---	---	13.5	12.0	13.0	16.0	12.0	14.0	11.5	10.0	10.5
3	---	---	---	12.0	11.0	11.5	14.0	11.5	13.0	13.0	10.5	11.5
4	---	---	---	12.0	11.0	11.5	12.0	11.0	11.5	12.5	10.5	11.5
5	---	---	---	12.0	11.0	11.5	12.0	11.5	11.5	11.5	10.5	11.0
6	---	---	---	12.0	10.5	11.0	13.5	11.5	12.0	11.0	10.5	11.0
7	---	---	---	11.5	10.5	11.0	15.5	11.5	13.0	11.5	11.0	11.0
8	---	---	---	13.0	10.5	11.5	16.5	12.0	14.0	11.5	10.5	11.0
9	---	---	---	13.0	11.5	12.5	18.5	13.0	15.5	12.0	9.5	10.5
10	18.0	14.5	16.0	12.0	11.0	11.5	19.5	14.0	16.5	11.0	9.5	10.0
11	16.5	14.5	15.5	13.5	11.0	12.5	20.5	14.5	17.5	13.0	10.0	11.5
12	15.5	14.0	15.0	12.5	11.5	12.0	20.5	15.0	18.0	12.0	11.0	11.5
13	14.5	13.0	14.0	13.0	12.0	12.5	21.5	15.5	18.5	12.0	10.5	11.5
14	13.0	9.5	11.0	12.5	11.0	11.5	20.5	16.5	18.5	11.5	10.5	11.0
15	12.0	10.0	11.0	12.5	11.0	11.5	18.5	16.5	17.0	12.0	10.0	11.0
16	17.0	9.0	13.0	13.0	11.0	12.0	20.0	16.0	17.5	11.0	10.0	10.5
17	19.5	11.5	15.5	13.0	12.0	12.5	19.5	15.5	17.0	10.5	10.0	10.0
18	21.0	13.5	17.5	12.5	11.5	12.0	17.5	13.5	16.0	10.0	9.5	10.0
19	19.5	15.5	17.0	13.5	11.5	12.5	14.5	13.5	14.0	10.0	9.0	9.5
20	16.5	14.5	15.5	12.5	11.5	12.0	13.5	12.5	13.0	10.0	9.0	9.5
21	15.5	13.0	14.0	14.0	11.5	12.5	12.5	11.5	12.0	10.0	9.0	9.5
22	15.0	12.5	14.0	15.5	11.0	13.0	12.5	11.5	12.0	9.5	8.5	9.0
23	14.0	12.5	13.5	14.0	12.5	13.0	13.0	11.5	12.0	9.5	9.0	9.5
24	13.0	10.5	12.0	14.5	12.0	13.0	14.0	11.0	12.5	10.0	9.5	10.0
25	15.0	11.0	13.0	14.0	12.5	13.0	13.5	12.0	13.0	10.0	9.0	9.5
26	17.5	12.0	14.5	14.5	12.5	13.5	13.0	11.5	12.5	9.5	8.5	9.0
27	19.0	13.5	16.0	13.0	12.0	12.5	12.5	11.0	12.0	8.5	7.0	7.5
28	16.5	14.5	15.0	13.0	12.0	12.5	13.5	11.0	12.5	9.0	8.0	8.5
29	14.5	12.0	13.5	13.0	11.5	12.0	12.5	11.5	12.0	9.0	8.5	8.5
30	14.5	12.0	13.0	13.0	11.5	12.0	12.0	11.0	11.5	8.5	8.0	8.5
31	---	---	---	12.5	11.5	12.0	11.5	11.0	11.0	---	---	---
MONTH	---	---	---	15.5	10.5	12.2	21.5	11.0	14.0	13.0	7.0	10.2

## 15087300 FALLS CREEK NEAR PETERSBURG

LOCATION.--Lat 56°40'56", long 132°55'20", in NW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 11, T. 60 S., R. 79 E. (Petersburg C-3 quad.) Hydrologic Unit 19010202, on left bank 200 ft upstream from the bridge on Mitkof Highway, 1000 ft upstream from the mouth, 10.7 mi south of Petersburg, 4.1 mi north of Blind Island Campground.

DRAINAGE AREA.--17.4 mi<sup>2</sup>

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 2004 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 47 ft above sea level, by barometer.

REMARKS.--Records fair, except for discharges above 500 ft<sup>3</sup>/s, and estimated daily discharges, which are poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT PERIOD.--May through September 2004: Maximum discharge during period, 2,570 ft<sup>3</sup>/s, September 21, gage height 22.79 ft; minimum discharge, 4.6 ft<sup>3</sup>/s, June 26-27, gage height, 17.68 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	67	57	11	15	16
2	---	---	---	---	---	---	---	63	53	15	26	12
3	---	---	---	---	---	---	---	67	48	13	35	29
4	---	---	---	---	---	---	---	60	28	9.2	30	151
5	---	---	---	---	---	---	---	46	27	8.3	26	138
6	---	---	---	---	---	---	---	31	25	257	140	50
7	---	---	---	---	---	---	---	29	22	94	92	65
8	---	---	---	---	---	---	---	26	17	42	37	44
9	---	---	---	---	---	---	---	26	13	25	22	25
10	---	---	---	---	---	---	---	26	10	18	16	17
11	---	---	---	---	---	---	---	25	8.8	24	15	14
12	---	---	---	---	---	---	---	23	10	27	14	13
13	---	---	---	---	---	---	---	23	18	17	11	214
14	---	---	---	---	---	---	---	23	80	13	8.6	148
15	---	---	---	---	---	---	---	20	38	9.9	7.4	79
16	---	---	---	---	---	---	---	17	22	8.3	6.6	48
17	---	---	---	---	---	---	---	16	15	9.8	6.1	30
18	---	---	---	---	---	---	---	16	11	9.2	6.1	22
19	---	---	---	---	---	---	---	15	8.9	7.8	5.4	16
20	---	---	---	---	---	---	---	15	7.4	8.1	13	339
21	---	---	---	---	---	---	---	15	6.6	10	14	1440
22	---	---	---	---	---	---	---	12	6.0	13	8.9	184
23	---	---	---	---	---	---	---	9.6	5.5	9.2	6.8	683
24	---	---	---	---	---	---	---	11	5.1	7.0	5.8	878
25	---	---	---	---	---	---	---	50	4.8	6.9	5.3	204
26	---	---	---	---	---	---	---	60	4.7	7.3	5.4	83
27	---	---	---	---	---	---	---	38	4.7	7.0	34	283
28	---	---	---	---	---	---	---	33	4.8	54	67	104
29	---	---	---	---	---	---	---	e49	33	4.9	64	59
30	---	---	---	---	---	---	---	57	27	5.1	30	43
31	---	---	---	---	---	---	---	78	---	21	25	---
TOTAL	---	---	---	---	---	---	---	1000.6	571.3	856.0	795.4	5431
MEAN	---	---	---	---	---	---	---	32.3	19.0	27.6	25.7	181
MAX	---	---	---	---	---	---	---	78	80	257	140	1440
MIN	---	---	---	---	---	---	---	9.6	4.7	6.9	5.3	12
AC-FT	---	---	---	---	---	---	---	1980	1130	1700	1580	10770
CFSM	---	---	---	---	---	---	---	1.85	1.09	1.58	1.47	10.4
IN.	---	---	---	---	---	---	---	2.13	1.22	1.83	1.70	11.58

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	32.3	19.0	27.6	25.7	181
MAX	---	---	---	---	---	---	---	32.3	19.0	27.6	25.7	181
(WY)	---	---	---	---	---	---	---	2004	2004	2004	2004	2004
MIN	---	---	---	---	---	---	---	32.3	19.0	27.6	25.7	181
(WY)	---	---	---	---	---	---	---	2004	2004	2004	2004	2004

e Estimated

15087300 FALLS CREEK NEAR PETERSBURG—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	560	197	e21	592	e180	150	15	5.8	26	55	168
2	28	270	1010	e18	260	e240	89	14	5.2	63	38	130
3	24	1040	301	e16	135	e320	121	15	4.8	131	64	72
4	42	362	101	e13	96	e400	117	16	4.7	175	147	51
5	900	124	62	e12	e55	e130	91	e18	4.7	74	176	38
6	510	71	42	e11	e45	e220	108	e17	4.6	91	310	185
7	298	51	e31	e10	e35	e250	79	e16	4.3	95	112	638
8	152	40	e27	e9.4	e42	e553	58	e14	4.2	63	55	163
9	120	33	e24	e8.8	142	312	84	e10	4.1	35	37	71
10	199	28	e21	e8.0	241	532	151	e9.5	4.2	240	27	48
11	119	24	e19	e7.5	109	390	148	e9.3	4.6	91	22	37
12	234	23	e40	e7.0	72	185	94	7.9	4.8	43	18	31
13	918	95	58	e6.6	e48	108	61	9.2	4.6	52	15	112
14	105	328	272	e6.2	e35	79	46	16	8.2	106	13	68
15	70	145	196	e6.0	e28	64	45	24	13	205	12	43
16	59	148	726	e6.0	28	56	61	15	9.3	70	10	32
17	43	110	279	e90	29	44	58	13	6.6	45	9.3	34
18	34	68	828	e250	32	36	46	9.3	5.4	72	29	957
19	27	51	1010	e219	e26	e30	312	8.4	4.8	84	323	410
20	25	693	164	e120	e20	e26	182	9.8	6.0	45	238	153
21	23	600	99	e140	e20	e23	115	8.5	7.2	126	140	86
22	97	92	90	e400	21	22	84	8.5	7.6	77	332	57
23	80	69	335	317	67	21	57	7.3	7.4	43	144	94
24	102	291	459	325	80	19	53	8.1	11	48	64	256
25	105	196	139	126	104	19	50	8.4	9.5	34	181	261
26	52	203	65	353	138	19	42	6.8	6.8	28	368	101
27	69	114	43	329	135	34	38	5.9	5.7	350	120	92
28	255	113	87	463	201	68	31	5.5	5.3	245	86	676
29	791	126	69	368	---	81	23	5.3	7.1	77	52	653
30	173	187	e40	652	---	89	18	6.6	15	65	62	259
31	98	---	e30	356	---	292	---	7.1	---	69	87	---
TOTAL	5786	6255	6864	4674.5	2836	4842	2612	344.4	196.5	2968	3346.3	5976
MEAN	187	208	221	151	101	156	87.1	11.1	6.55	95.7	108	199
MAX	918	1040	1010	652	592	553	312	24	15	350	368	957
MIN	23	23	19	6.0	20	19	18	5.3	4.1	26	9.3	31
AC-FT	11480	12410	13610	9270	5630	9600	5180	683	390	5890	6640	11850
CFSM	10.7	12.0	12.7	8.65	5.81	8.96	4.99	0.64	0.38	5.49	6.19	11.4
IN.	12.34	13.34	14.64	9.97	6.05	10.33	5.57	0.73	0.42	6.33	7.14	12.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)#

	2004	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004	2004
MEAN	187	208	221	151	101	156	87.1	21.7	12.8	61.7	66.8	190
MAX	187	208	221	151	101	156	87.1	32.3	19.0	95.7	108	199
(WY)	2005	2005	2005	2005	2005	2005	2005	2004	2004	2005	2005	2005
MIN	187	208	221	151	101	156	87.1	11.1	6.55	27.6	25.7	181
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004	2004

SUMMARY STATISTICS

FOR 2005 WATER YEAR

WATER YEARS 2004 - 2005#

ANNUAL TOTAL	46700.7	
ANNUAL MEAN	128	128
HIGHEST ANNUAL MEAN		128
LOWEST ANNUAL MEAN		128
HIGHEST DAILY MEAN	1040	1440
LOWEST DAILY MEAN	4.1	4.1
ANNUAL SEVEN-DAY MINIMUM	4.4	4.4
MAXIMUM PEAK FLOW	2380	a2570
MAXIMUM PEAK STAGE	22.61	22.79
INSTANTANEOUS LOW FLOW	b4.1	4.1
ANNUAL RUNOFF (AC-FT)	92630	92690
ANNUAL RUNOFF (CFSM)	7.34	7.34
ANNUAL RUNOFF (INCHES)	99.61	99.68
10 PERCENT EXCEEDS	326	326
50 PERCENT EXCEEDS	63	63
90 PERCENT EXCEEDS	7.6	7.6

# See Period of Record; partial year was used in monthly statistics  
a From rating curve extended above 502 ft<sup>3</sup>/s  
b June 8-10  
e Estimated

15087300 FALLS CREEK NEAR PETERSBURG—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2004 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 2004 to current year.

INSTRUMENTATION.-- Electronic water-temperature recorder since May 2004, set for 15-minute recording interval.

REMARKS.--No record from January 18-21, and May 5-11 due to probe icing and recorder malfunction. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on December 8. No variation was found in the temperature cross-section. The variation between mean stream temperature and recorded sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 22.0°C, June 24-25, 2004; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 19.0°C, June 8, 18 and 27; minimum, 0.0°C, on many days during winter.

Date	Time	Instantaneous discharge, cfs (00061)	Sample location, cross section ft from rt bank (72103)	Stream width, feet (00004)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
DEC 08...	1025	28	10.0	42.0	2.3	0.0
08...	1026	28	20.0	42.0	2.3	0.0
08...	1027	28	30.0	42.0	2.3	0.0
08...	1028	28	40.0	42.0	2.3	0.0

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.5	8.5	9.0	4.5	4.0	4.5	4.0	3.5	4.0	0.0	0.0	0.0
2	9.5	8.5	9.0	4.5	4.0	4.5	4.5	4.0	4.5	0.0	0.0	0.0
3	9.5	8.0	8.5	4.5	4.0	4.0	5.0	4.5	5.0	0.0	0.0	0.0
4	9.0	8.5	8.5	5.0	4.5	5.0	4.5	3.5	4.0	0.0	0.0	0.0
5	9.5	9.0	9.5	4.5	4.0	4.0	3.5	2.0	2.5	0.0	0.0	0.0
6	9.5	8.5	9.0	4.0	3.0	3.5	2.0	0.0	1.0	0.0	0.0	0.0
7	9.0	9.0	9.0	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
8	9.0	8.5	9.0	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9.0	8.5	9.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
10	9.0	9.0	9.0	1.5	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
11	9.0	8.5	8.5	1.0	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0
12	8.5	7.0	7.5	0.5	0.0	0.5	1.0	0.5	0.5	0.0	0.0	0.0
13	9.5	7.5	8.5	2.5	0.5	1.5	1.5	0.5	1.0	0.0	0.0	0.0
14	9.5	9.5	9.5	3.5	2.5	3.0	1.5	1.0	1.5	0.0	0.0	0.0
15	9.5	9.0	9.5	4.0	3.5	4.0	2.0	1.5	1.5	0.0	0.0	0.0
16	9.0	8.0	8.0	4.0	4.0	4.0	3.0	2.0	2.5	0.0	0.0	0.0
17	8.0	6.0	6.5	4.0	3.5	4.0	3.5	3.0	3.0	0.0	0.0	0.0
18	6.0	4.5	5.0	3.5	2.5	3.0	4.5	3.5	4.0	---	---	---
19	4.5	3.0	3.5	3.0	2.5	2.5	4.5	4.0	4.0	---	---	---
20	3.0	3.0	3.0	4.0	3.0	3.5	4.0	3.0	3.5	---	---	---
21	3.0	2.5	3.0	5.0	4.0	4.5	3.0	2.0	2.5	---	0.0	---
22	3.5	3.0	3.0	4.5	4.0	4.0	3.0	2.0	2.5	0.0	0.0	0.0
23	3.5	3.5	3.5	4.0	3.5	3.5	3.5	3.0	3.5	0.0	0.0	0.0
24	3.5	3.0	3.0	3.5	3.0	3.5	4.0	3.0	3.5	0.0	0.0	0.0
25	4.0	3.5	3.5	3.5	3.0	3.5	3.0	1.5	2.5	0.0	0.0	0.0
26	4.0	3.0	3.5	3.5	3.5	3.5	1.5	0.0	0.5	0.5	0.0	0.0
27	3.5	3.0	3.0	3.5	3.0	3.0	0.0	0.0	0.0	0.5	0.0	0.5
28	4.0	3.5	4.0	3.5	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.5
29	5.0	4.0	5.0	4.0	3.5	4.0	0.5	0.0	0.5	0.5	0.5	0.5
30	5.5	5.0	5.0	4.0	3.5	4.0	0.0	0.0	0.0	0.5	0.5	0.5
31	5.0	4.5	4.5	---	---	---	0.0	0.0	0.0	1.0	0.5	1.0
MONTH	9.5	2.5	6.5	5.0	0.0	3.2	5.0	0.0	1.9	---	---	---



## SOUTHEAST ALASKA

## 15087300 FALLS CREEK NEAR PETERSBURG—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.5	1.0	1.5	1.0	1.0	2.0	1.5	1.5	9.0	7.5	8.5
2	1.0	1.0	1.0	1.5	1.0	1.5	2.0	1.5	1.5	9.5	8.5	9.0
3	1.0	0.5	1.0	1.5	1.0	1.0	2.5	2.0	2.5	9.5	8.5	9.0
4	0.5	0.5	0.5	1.5	1.0	1.5	3.0	2.5	2.5	9.5	8.5	9.0
5	0.5	0.0	0.0	2.0	1.0	1.5	3.5	3.0	3.0	---	---	---
6	0.0	0.0	0.0	2.0	1.5	1.5	4.0	3.5	3.5	---	---	---
7	0.0	0.0	0.0	2.5	1.0	1.5	4.0	3.0	3.5	---	---	---
8	0.0	0.0	0.0	2.5	1.5	2.0	4.0	3.0	3.5	---	---	---
9	0.5	0.0	0.0	2.0	1.5	1.5	4.0	3.5	3.5	---	---	---
10	0.5	0.0	0.0	2.5	2.0	2.0	4.0	3.0	3.5	---	---	---
11	0.5	0.0	0.0	2.5	2.0	2.0	4.5	3.5	4.0	---	---	---
12	0.5	0.0	0.0	3.0	2.0	2.5	4.5	4.0	4.0	12.0	11.5	11.5
13	0.5	0.0	0.0	3.0	2.5	2.5	4.5	3.0	4.0	11.5	11.0	11.5
14	0.5	0.0	0.0	3.0	2.5	2.5	4.5	3.5	4.0	12.5	11.0	11.5
15	0.5	0.0	0.0	3.0	2.5	2.5	4.0	3.5	4.0	12.0	10.5	11.0
16	0.5	0.0	0.0	2.5	1.0	2.0	4.0	3.0	3.5	12.0	10.5	11.5
17	0.5	0.0	0.0	1.5	0.5	1.0	5.0	3.5	4.5	12.5	11.0	11.5
18	0.5	0.0	0.0	1.0	0.0	0.5	5.0	4.0	4.5	12.5	10.0	11.0
19	0.5	0.0	0.0	0.5	0.0	0.0	4.5	4.0	4.5	13.0	11.0	11.5
20	0.5	0.0	0.0	0.5	0.0	0.0	5.0	4.5	4.5	12.0	11.0	11.5
21	0.5	0.0	0.0	0.5	0.0	0.0	6.0	5.0	5.5	13.0	11.0	12.0
22	0.5	0.0	0.0	0.5	0.0	0.5	6.0	5.0	5.5	12.0	10.5	11.0
23	0.5	0.0	0.0	1.0	0.0	0.5	7.0	5.0	6.0	12.0	10.5	11.5
24	0.5	0.0	0.0	1.0	0.0	0.5	8.0	5.5	7.0	13.0	11.5	12.0
25	0.5	0.0	0.0	1.0	0.5	0.5	8.5	6.5	7.5	13.0	11.0	12.0
26	0.5	0.0	0.0	3.0	1.0	2.0	9.5	7.0	8.0	14.5	12.0	13.0
27	0.5	0.0	0.5	3.5	2.5	3.0	10.0	7.5	9.0	15.5	13.0	14.0
28	1.0	0.5	1.0	2.5	2.0	2.0	10.0	8.0	9.0	15.5	12.5	14.0
29	---	---	---	2.0	2.0	2.0	10.0	8.0	9.0	14.5	13.5	14.0
30	---	---	---	2.5	2.0	2.0	9.0	7.5	8.0	15.5	13.0	13.5
31	---	---	---	2.5	2.0	2.5	---	---	---	15.5	13.0	14.0
MONTH	1.0	0.0	0.2	3.5	0.0	1.5	10.0	1.5	4.8	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	13.0	14.5	15.0	13.0	14.0	13.5	12.0	13.0	11.5	11.0	11.0
2	16.5	13.0	14.5	13.0	12.5	13.0	13.5	12.0	13.0	11.5	11.0	11.0
3	14.5	13.0	13.5	12.5	12.0	12.0	13.0	12.0	12.5	12.0	11.0	11.5
4	15.0	13.0	13.5	12.5	11.5	12.0	12.5	12.0	12.0	11.5	10.5	11.0
5	16.0	12.0	13.5	13.0	12.5	12.5	12.5	12.0	12.0	11.5	10.5	11.0
6	16.5	13.0	14.5	12.5	12.0	12.5	13.0	12.0	12.5	11.5	11.0	11.5
7	17.0	14.0	15.5	12.5	12.0	12.5	13.5	12.5	13.0	11.5	11.0	11.5
8	19.0	15.5	16.5	13.0	11.5	12.0	14.0	12.5	13.0	11.5	11.0	11.5
9	17.0	15.0	16.0	13.0	12.0	12.5	15.0	12.5	13.5	11.0	10.0	10.5
10	16.5	14.5	15.5	12.5	11.5	12.0	15.5	13.5	14.5	11.0	10.0	10.5
11	15.5	14.0	15.0	13.0	12.0	12.5	16.0	14.0	15.0	11.0	10.5	11.0
12	15.5	14.0	14.5	13.5	12.5	13.0	16.0	14.5	15.0	11.5	10.5	11.0
13	15.0	13.5	14.0	13.0	12.5	13.0	16.5	15.0	15.5	11.5	11.0	11.0
14	15.0	13.5	14.0	13.0	12.0	12.5	16.5	15.0	15.5	11.5	11.0	11.5
15	14.5	12.5	13.5	12.5	12.0	12.0	16.0	15.0	15.5	11.0	10.0	10.5
16	15.5	12.5	14.0	14.0	12.0	13.0	16.5	15.0	15.5	11.0	10.5	10.5
17	17.5	13.5	15.0	14.5	13.0	13.5	15.5	14.5	15.0	11.0	10.5	10.5
18	19.0	14.5	16.5	14.0	13.0	13.5	15.5	14.0	15.0	10.5	10.0	10.5
19	17.5	16.0	16.5	14.0	13.0	13.5	14.0	13.5	14.0	10.0	10.0	10.0
20	17.5	15.5	16.0	15.0	13.5	14.0	14.0	13.0	13.0	10.0	10.0	10.0
21	15.5	14.0	14.5	14.0	13.0	13.5	13.0	12.5	12.5	10.5	9.5	10.0
22	14.0	13.0	13.5	14.5	12.5	13.5	12.5	12.0	12.5	10.0	9.5	9.5
23	13.5	13.0	13.5	13.5	12.5	13.0	13.0	12.0	12.5	10.0	9.5	9.5
24	14.5	12.5	13.5	14.0	12.5	13.5	13.0	12.0	12.5	10.0	10.0	10.0
25	15.5	13.5	14.5	14.0	13.0	13.5	13.0	12.5	12.5	10.0	10.0	10.0
26	17.5	14.0	15.5	14.0	13.5	13.5	12.5	12.0	12.5	10.0	9.0	9.5
27	19.0	15.5	16.5	13.5	12.5	13.0	12.5	12.0	12.0	9.0	8.0	8.0
28	17.0	16.0	16.5	13.5	12.5	13.0	12.5	12.0	12.0	9.0	8.0	8.5
29	16.0	15.0	15.5	13.5	12.5	13.0	12.0	11.5	12.0	9.0	9.0	9.0
30	15.0	14.5	14.5	12.5	12.0	12.5	12.0	11.5	12.0	9.0	8.5	9.0
31	---	---	---	13.0	12.0	12.5	12.0	11.5	11.5	---	---	---
MONTH	19.0	12.0	14.8	15.0	11.5	12.9	16.5	11.5	13.3	12.0	8.0	10.3

## 15087500 EAST FORK HOBO CREEK NEAR PETERSBURG

LOCATION.--Lat 56°47'38", long 132°52'23", in NW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 06, T. 59 S., R. 80 E. (Petersburg D-3 quad.)  
Hydrologic Unit 19010202, on left bank 50 ft upstream from the culvert on Fredrick Point Road, 4.5 mi east of Petersburg, 1000 ft upstream from the mouth.

DRAINAGE AREA.--0.45 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 47 ft above sea level, by barometer.

REMARKS.--Records fair, except for discharges above 71 ft<sup>3</sup>/s, and estimated daily discharges, which are poor. GOES satellite telemetry at station.

EXTREMES FOR WATER YEAR 2004.--Maximum discharge for period October 15, 2003 through September 2004, 119 ft<sup>3</sup>/s, September 21, gage height 12.89 ft, minimum discharge, 0.17 ft<sup>3</sup>/s, June 25-26, August 25-26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.44	21	e0.33	0.22	0.43	1.7	4.3	3.3	0.34	0.36	0.33
2	---	0.38	11	e0.31	0.21	0.41	11	4.2	2.8	0.32	0.56	0.39
3	---	0.34	1.8	e0.29	0.24	0.46	6.8	4.0	1.6	0.29	1.4	1.2
4	---	0.30	0.90	e0.28	0.27	1.0	4.7	2.9	1.1	0.23	0.65	3.1
5	---	0.27	2.1	e0.26	7.0	2.2	2.0	1.5	1.9	1.8	0.60	1.4
6	---	0.25	1.2	e0.25	5.7	3.9	1.3	1.1	1.1	7.8	3.0	2.4
7	---	0.24	0.72	e0.50	6.7	14	3.8	1.3	0.97	1.2	1.1	2.9
8	---	0.23	0.51	e1.0	13	16	2.8	1.4	0.78	0.56	0.51	0.83
9	---	1.9	e0.45	e1.8	14	3.1	2.0	1.5	0.59	0.40	0.37	0.47
10	---	0.94	0.41	e3.6	6.3	7.3	3.4	1.7	0.48	0.33	0.30	0.36
11	---	3.4	0.40	e6.0	2.4	6.3	4.8	1.4	0.44	0.35	0.33	0.32
12	---	48	1.1	e10	2.2	1.6	3.7	1.6	0.64	0.30	0.28	0.41
13	---	31	0.65	e15	2.3	1.0	2.5	2.0	1.3	0.26	0.24	12
14	---	2.5	0.43	27	1.7	1.7	1.8	2.0	2.0	0.23	0.22	2.8
15	e1.3	3.9	8.6	5.9	0.82	4.3	1.1	1.4	0.71	0.21	0.20	2.0
16	e1.1	1.9	9.6	6.0	0.68	6.7	0.71	1.6	0.50	0.20	0.19	1.2
17	1.7	1.1	11	15	0.72	1.6	0.62	2.0	0.43	0.22	0.18	0.78
18	2.2	0.90	26	14	4.5	0.85	0.93	2.4	0.37	0.21	0.18	0.60
19	2.6	0.54	23	4.0	7.6	0.63	0.75	2.3	0.33	0.20	0.19	0.51
20	1.9	0.41	7.6	12	15	0.55	0.61	2.6	0.29	0.38	0.40	22
21	4.5	0.35	12	11	5.8	0.52	0.61	2.4	0.25	0.51	0.28	29
22	6.6	0.38	27	9.1	2.2	1.1	3.0	1.3	0.22	0.36	0.23	12
23	8.6	0.63	11	2.8	1.6	0.87	3.5	1.3	0.20	0.27	0.20	36
24	7.4	1.4	4.8	1.0	1.3	1.1	14	3.3	0.18	0.23	0.18	17
25	35	1.3	4.8	e0.45	0.83	2.2	15	3.1	0.17	0.36	0.17	3.3
26	26	0.75	1.4	e0.34	0.66	2.0	9.3	2.1	0.17	0.40	0.22	3.0
27	2.5	0.63	0.75	e0.30	0.56	3.0	2.8	1.4	0.21	0.31	4.0	14
28	4.7	0.44	0.59	e0.28	0.50	9.4	1.5	1.4	0.25	4.1	1.9	2.1
29	1.3	0.38	0.45	e0.26	0.46	12	1.2	1.9	0.22	1.1	0.87	1.1
30	0.74	6.1	0.40	e0.24	---	7.7	2.6	3.2	0.21	0.55	0.54	0.84
31	0.54	---	e0.36	e0.23	---	2.2	---	4.6	---	0.39	0.40	---
TOTAL	---	111.30	192.02	149.52	105.47	116.12	110.53	69.2	23.71	24.41	20.25	174.34
MEAN	---	3.71	6.19	4.82	3.64	3.75	3.68	2.23	0.79	0.79	0.65	5.81
MAX	---	48	27	27	15	16	15	4.6	3.3	7.8	4.0	36
MIN	---	0.23	0.36	0.23	0.21	0.41	0.61	1.1	0.17	0.20	0.17	0.32
AC-FT	---	221	381	297	209	230	219	137	47	48	40	346
CFSM	---	8.24	13.8	10.7	8.08	8.32	8.19	4.96	1.76	1.75	1.45	12.9
IN.	---	9.20	15.87	12.36	8.72	9.60	9.14	5.72	1.96	2.02	1.67	14.41

e Estimated

## 15087500 EAST FORK HOBO CREEK NEAR PETERSBURG—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.68	20	9.2	e0.45	15	6.0	1.8	0.80	0.33	4.1	0.71	6.5
2	0.59	5.9	34	e0.40	5.0	8.6	1.5	1.0	0.29	2.0	0.55	2.6
3	0.53	37	6.8	e0.36	2.4	9.1	3.3	1.2	0.27	8.7	9.0	1.0
4	4.2	5.2	1.8	e0.32	e2.0	11	4.1	1.1	0.26	3.4	4.4	0.73
5	18	2.1	0.94	e0.30	e1.7	3.4	1.6	1.1	0.25	3.9	6.4	0.61
6	12	1.2	0.62	e0.29	e1.4	5.3	2.5	0.96	0.23	3.6	6.2	12
7	7.7	0.92	e0.40	e0.27	e1.1	5.9	1.0	1.0	0.22	10	1.5	13
8	3.2	0.76	e0.33	e0.25	e0.90	12	0.84	0.96	0.22	1.9	0.78	2.3
9	3.6	0.67	e0.20	e0.23	e0.80	5.8	3.9	1.1	0.21	1.7	0.58	0.97
10	8.3	0.60	e0.50	e0.22	e0.70	13	3.7	1.1	0.22	7.4	0.47	0.69
11	2.5	0.55	3.1	e0.20	e0.60	6.6	3.0	1.3	0.26	1.5	0.39	0.57
12	17	0.68	2.8	e0.19	e0.55	2.3	1.4	1.3	0.34	0.74	0.35	0.57
13	9.1	5.9	6.6	e0.18	e0.50	1.4	0.82	1.7	0.28	0.78	0.31	2.1
14	1.8	8.3	8.5	e0.17	e0.48	0.94	0.69	2.7	0.92	2.1	0.28	0.85
15	1.8	6.5	9.1	e0.16	e0.49	0.77	1.5	1.1	0.74	4.3	0.27	0.64
16	1.2	4.9	17	e0.60	0.52	0.62	1.7	1.0	0.44	1.1	0.26	0.53
17	0.87	3.6	10	e17	1.00	0.51	1.3	0.75	0.33	1.5	0.25	7.1
18	0.68	1.6	30	e15	0.80	0.43	1.4	0.57	0.28	1.8	1.8	28
19	0.56	2.6	15	13	0.59	0.36	15	0.73	0.27	1.3	11	9.8
20	0.51	29	2.2	4.8	0.50	0.33	5.6	0.62	0.39	1.2	3.5	3.8
21	2.5	6.0	1.2	4.2	e0.45	0.30	4.2	0.66	0.37	3.9	3.7	2.0
22	4.1	1.6	2.2	15	0.47	0.31	2.1	0.51	0.45	1.3	6.8	1.1
23	1.5	5.5	15	8.2	5.6	0.30	1.7	0.48	0.59	0.97	1.8	2.6
24	4.6	8.0	14	5.6	2.5	0.29	2.4	0.59	0.83	0.90	0.83	5.1
25	1.9	9.4	2.1	3.8	2.0	0.28	2.5	0.45	0.48	0.73	6.8	3.1
26	0.98	5.4	0.90	13	4.1	0.32	2.2	0.39	0.37	0.78	4.9	1.5
27	2.5	2.2	0.65	9.3	4.1	1.9	2.4	0.35	0.31	11	2.9	4.4
28	12	2.6	2.4	12	6.8	1.4	1.8	0.32	0.47	3.2	1.2	17
29	20	3.4	1.1	10	---	0.79	1.2	0.33	1.2	1.3	1.0	15
30	4.0	4.8	0.58	15	---	1.7	0.82	0.49	0.97	1.0	2.5	8.7
31	2.5	---	e0.50	11	---	7.2	---	0.41	---	0.90	5.1	---
TOTAL	151.40	186.88	199.72	161.49	63.05	109.15	77.97	27.07	12.79	89.00	86.53	154.86
MEAN	4.88	6.23	6.44	5.21	2.25	3.52	2.60	0.87	0.43	2.87	2.79	5.16
MAX	20	37	34	17	15	13	15	2.7	1.2	11	11	28
MIN	0.51	0.55	0.20	0.16	0.45	0.28	0.69	0.32	0.21	0.73	0.25	0.53
AC-FT	300	371	396	320	125	216	155	54	25	177	172	307
CFSM	10.9	13.8	14.3	11.6	5.00	7.82	5.78	1.94	0.95	6.38	6.20	11.5
IN.	12.52	15.45	16.51	13.35	5.21	9.02	6.45	2.24	1.06	7.36	7.15	12.80

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)#

	2004	2005	2004	2005	2004	2005	2004	2005	2004	2005	2004	2005
MEAN	4.88	4.97	6.32	5.02	2.96	3.63	3.14	1.55	0.61	1.83	1.72	5.49
MAX	4.88	6.23	6.44	5.21	3.64	3.75	3.68	2.23	0.79	2.87	2.79	5.81
(WY)	2005	2005	2005	2005	2004	2004	2004	2004	2004	2005	2005	2004
MIN	4.88	3.71	6.19	4.82	2.25	3.52	2.60	0.87	0.43	0.79	0.65	5.16
(WY)	2005	2004	2004	2004	2005	2005	2005	2005	2005	2004	2004	2005

## SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005#	
ANNUAL TOTAL	1331.55		1319.91			
ANNUAL MEAN	3.64		3.62		3.62	
HIGHEST ANNUAL MEAN					3.62	
LOWEST ANNUAL MEAN					3.62	
HIGHEST DAILY MEAN	37	Nov 3	37	Nov 3	48	Nov 12 2003
LOWEST DAILY MEAN	a0.17	Jun 25	0.16	Jan 15	0.16	Jan 15 2005
ANNUAL SEVEN-DAY MINIMUM	0.20	Jun 21	0.19	Jan 9	0.19	Jan 9 2005
MAXIMUM PEAK FLOW			97		119	
MAXIMUM PEAK STAGE			12.68		12.89	
INSTANTANEOUS LOW FLOW			b		0.17	
ANNUAL RUNOFF (AC-FT)	2640		2620		2620	
ANNUAL RUNOFF (CFSM)	8.08		8.04		8.04	
ANNUAL RUNOFF (INCHES)	110.07		109.11		109.19	
10 PERCENT EXCEEDS	10		10		10	
50 PERCENT EXCEEDS	1.5		1.4		1.4	
90 PERCENT EXCEEDS	0.25		0.32		0.32	

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

a June 25-26, Aug. 25-26

b Not determined, see lowest daily mean

e Estimated

15087500 EAST FORK HOBO CREEK NEAR PETERSBURG—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2003 to September 2005.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 2003 to September 2005.

INSTRUMENTATION.--Electronic water-temperature recorder since November 2004. Recording interval changed to 15-minutes.

REMARKS.--Water-discharge records are computed daily. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on December 8, 2004. No variation was found within the cross section, or between mean stream temperature and sensor temperature. Record is missing from February 04 to 15 due to recorder malfunction.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 14.0°C, August 17-18, 2004; minimum, 0.0°C on many days during winter.

EXTREMES FOR CURRENT PERIOD.--

WATER TEMPERATURE: Maximum, 13.0°C, August 12-16, 2005; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
DEC							
08...	1231	6.5	2.0	9.89	.34	0.0	3.5
08...	1232	6.5	4.0	9.89	.34	0.0	3.5
08...	1233	6.5	6.0	9.89	.34	0.0	3.5
08...	1234	6.5	8.0	9.89	.34	0.0	3.5

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.0	8.0	8.5	4.0	4.0	4.0	3.0	3.0	3.0	0.5	0.5	0.5
2	9.0	8.5	9.0	4.0	3.5	4.0	3.5	3.0	3.0	0.5	0.0	0.5
3	8.5	8.0	8.5	4.0	3.5	4.0	3.5	2.5	3.0	0.5	0.0	0.0
4	9.0	8.5	8.5	3.5	3.5	3.5	3.0	2.0	2.5	0.5	0.0	0.0
5	9.0	8.5	9.0	3.5	2.5	3.0	2.0	1.0	1.5	0.0	0.0	0.0
6	8.5	8.0	8.5	3.0	2.5	2.5	1.0	0.0	0.5	0.5	0.0	0.0
7	8.5	8.0	8.0	2.5	2.0	2.0	0.0	0.0	0.0	0.5	0.0	0.5
8	8.0	8.0	8.0	2.0	1.5	2.0	0.0	0.0	0.0	0.5	0.5	0.5
9	8.5	8.0	8.0	2.0	1.5	2.0	1.0	0.0	0.5	0.5	0.5	0.5
10	8.5	8.0	8.0	1.5	1.0	1.5	1.0	0.5	1.0	0.5	0.0	0.5
11	8.0	7.5	7.5	1.5	0.5	1.0	1.0	1.0	1.0	1.0	0.0	0.5
12	8.5	7.0	7.5	2.5	1.0	1.5	1.5	1.0	1.0	1.0	0.5	1.0
13	8.5	8.0	8.5	3.0	2.5	2.5	1.5	1.0	1.0	1.0	0.5	0.5
14	8.5	8.5	8.5	3.5	3.0	3.0	1.5	1.0	1.5	0.5	0.5	0.5
15	8.5	8.0	8.0	4.0	3.5	3.5	1.5	1.5	1.5	0.5	0.5	0.5
16	8.0	6.5	7.5	4.0	3.5	3.5	2.0	1.5	2.0	0.5	0.0	0.5
17	6.5	5.5	6.0	3.5	3.0	3.5	2.5	2.0	2.0	0.5	0.0	0.0
18	5.5	4.5	5.0	3.0	2.5	2.5	3.0	2.5	2.5	0.0	0.0	0.0
19	4.5	4.0	4.0	3.0	2.5	3.0	3.0	2.5	2.5	0.0	0.0	0.0
20	4.0	4.0	4.0	4.0	3.0	3.5	2.5	2.0	2.5	0.0	0.0	0.0
21	4.5	3.5	4.0	3.5	3.5	3.5	2.0	1.5	2.0	0.0	0.0	0.0
22	4.5	4.0	4.5	3.5	3.0	3.5	2.0	1.5	2.0	0.5	0.0	0.0
23	4.5	4.0	4.0	3.0	2.5	3.0	2.5	2.0	2.5	0.5	0.5	0.5
24	4.0	3.5	4.0	3.0	3.0	3.0	2.5	2.0	2.5	1.0	0.5	0.5
25	4.5	4.0	4.0	3.0	3.0	3.0	2.0	1.0	1.5	1.0	0.5	0.5
26	4.0	4.0	4.0	3.0	3.0	3.0	1.0	0.5	0.5	1.0	0.5	1.0
27	4.5	4.0	4.0	3.0	3.0	3.0	0.5	0.0	0.0	1.0	1.0	1.0
28	4.5	4.0	4.5	3.0	3.0	3.0	0.5	0.0	0.5	1.0	0.5	1.0
29	4.5	4.0	4.5	3.0	3.0	3.0	1.0	0.0	0.5	1.0	1.0	1.0
30	4.5	4.0	4.5	3.0	3.0	3.0	0.0	0.0	0.0	1.5	1.0	1.0
31	4.0	4.0	4.0	---	---	---	0.5	0.0	0.5	1.5	1.0	1.0
MONTH	9.0	3.5	6.3	4.0	0.5	2.9	3.5	0.0	1.5	1.5	0.0	0.5

## SOUTHEAST ALASKA

## 15087500 EAST FORK HOBO CREEK NEAR PETERSBURG—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	FEBRUARY		MAX	MARCH		MAX	APRIL		MAX	MAY	
		MIN	MEAN		MIN	MEAN		MIN	MEAN		MIN	MEAN
1	1.0	0.5	1.0	2.0	1.5	1.5	2.0	1.5	2.0	6.5	5.0	6.0
2	1.0	1.0	1.0	2.0	1.5	1.5	2.0	1.5	1.5	6.5	5.5	6.0
3	1.5	0.5	1.0	2.0	1.5	2.0	2.5	2.0	2.0	6.5	5.5	6.0
4	---	---	---	2.0	1.5	2.0	3.0	2.0	2.5	6.5	5.5	6.0
5	---	---	---	2.0	2.0	2.0	3.0	2.5	3.0	6.5	5.5	6.0
6	---	---	---	2.5	2.0	2.0	3.0	2.5	3.0	6.5	5.0	6.0
7	---	---	---	2.5	2.0	2.0	3.0	2.5	3.0	7.5	5.5	6.5
8	---	---	---	2.5	2.0	2.5	3.5	2.0	2.5	7.5	6.0	7.0
9	---	---	---	3.0	2.5	2.5	3.5	3.0	3.0	8.0	6.5	7.0
10	---	---	---	3.0	2.5	3.0	3.5	3.0	3.0	8.5	7.0	7.5
11	---	---	---	3.0	2.5	3.0	3.5	3.0	3.5	9.0	8.0	8.5
12	---	---	---	3.0	3.0	3.0	3.5	2.5	3.0	8.5	8.0	8.0
13	---	---	---	3.0	2.5	3.0	3.5	2.5	3.0	8.5	8.0	8.0
14	---	---	---	3.0	2.5	3.0	3.5	3.0	3.0	9.0	8.0	8.5
15	---	---	---	3.0	2.0	3.0	3.5	2.5	3.0	8.5	7.5	8.0
16	0.5	0.0	0.5	2.0	1.5	2.0	4.0	3.0	3.5	8.5	7.5	8.0
17	1.0	0.5	0.5	1.5	1.0	1.0	4.0	3.0	3.5	8.5	7.5	8.0
18	1.0	0.0	1.0	1.0	0.5	1.0	4.0	3.0	3.5	9.0	7.0	8.0
19	1.0	0.0	1.0	0.5	0.0	0.0	4.0	3.5	4.0	9.0	8.0	8.5
20	1.0	0.5	0.5	0.0	0.0	0.0	4.5	3.5	4.0	9.0	8.0	8.5
21	1.0	0.0	0.0	0.5	0.0	0.0	4.5	4.0	4.5	9.0	8.0	8.5
22	1.0	1.0	1.0	1.5	0.5	1.0	4.5	4.0	4.0	8.5	7.0	8.0
23	1.0	0.0	1.0	1.0	0.5	1.0	5.0	4.0	4.5	8.5	7.5	8.5
24	1.5	1.0	1.0	1.0	0.0	0.5	5.5	4.5	5.0	9.0	8.0	8.5
25	1.5	1.0	1.5	2.0	0.5	1.5	6.0	5.0	5.5	9.0	7.5	8.5
26	1.5	1.0	1.0	3.0	2.0	2.5	6.0	5.0	5.5	9.5	8.5	9.0
27	1.5	1.0	1.5	2.5	2.0	2.5	6.5	5.5	6.0	10.0	9.0	9.5
28	1.5	1.5	1.5	2.5	1.5	2.0	7.0	5.5	6.0	10.0	8.0	9.0
29	---	---	---	2.5	2.0	2.0	6.5	5.5	6.0	9.5	9.0	9.0
30	---	---	---	2.5	2.0	2.0	6.5	4.5	5.5	9.5	9.0	9.0
31	---	---	---	2.5	2.0	2.5	---	---	---	10.0	8.5	9.0
MONTH	---	---	---	3.0	0.0	1.9	7.0	1.5	3.7	10.0	5.0	7.8

DAY	MAX	JUNE		MAX	JULY		MAX	AUGUST		MAX	SEPTEMBER	
		MIN	MEAN		MIN	MEAN		MIN	MEAN		MIN	MEAN
1	10.0	8.5	9.5	11.0	10.5	11.0	11.0	10.5	11.0	10.5	10.5	10.5
2	10.0	8.0	9.0	11.0	10.5	11.0	11.5	10.5	11.0	10.5	10.0	10.5
3	9.5	8.0	9.0	11.0	10.5	10.5	11.5	11.0	11.5	10.5	10.0	10.5
4	10.0	9.0	9.5	10.5	10.0	10.5	11.5	11.0	11.0	10.5	9.5	10.0
5	10.0	8.0	9.0	11.0	10.5	11.0	11.5	11.0	11.5	11.0	10.0	10.5
6	10.5	8.5	9.5	11.0	10.5	10.5	11.5	11.0	11.0	11.0	10.5	10.5
7	11.0	9.0	10.0	11.0	10.5	10.5	11.5	10.5	11.0	11.0	10.5	11.0
8	11.5	10.0	10.5	10.5	10.0	10.5	11.5	10.5	11.0	11.0	10.0	10.5
9	11.0	9.0	10.0	10.5	10.0	10.5	12.0	11.0	11.5	10.0	9.5	10.0
10	11.0	10.0	10.5	10.5	10.5	10.5	12.5	11.0	11.5	10.5	9.5	10.0
11	10.5	9.5	10.0	11.0	10.5	10.5	12.5	11.5	12.0	10.5	10.0	10.5
12	10.0	9.5	10.0	11.0	10.0	10.5	13.0	11.5	12.5	10.5	10.0	10.5
13	10.0	8.5	9.5	11.0	10.5	11.0	13.0	12.0	12.5	11.0	10.5	10.5
14	10.0	9.0	9.5	11.0	10.5	11.0	13.0	12.0	12.5	10.5	10.0	10.5
15	9.5	8.5	9.0	11.0	10.5	11.0	13.0	12.5	12.5	10.0	9.5	9.5
16	10.0	8.0	9.5	11.5	10.0	11.0	13.0	12.0	12.5	10.5	9.5	10.0
17	11.0	9.0	10.0	11.5	11.0	11.5	12.5	11.0	12.0	10.5	10.0	10.0
18	12.0	10.0	11.0	11.5	11.0	11.0	12.5	12.0	12.5	10.0	9.5	10.0
19	11.5	10.5	11.0	11.5	11.0	11.0	13.0	12.5	12.5	9.5	9.0	9.5
20	11.0	10.0	10.5	11.5	11.0	11.0	12.5	11.5	12.0	9.5	9.0	9.5
21	10.0	9.5	10.0	11.5	11.0	11.5	12.0	11.5	11.5	9.5	8.5	9.0
22	10.0	9.0	9.5	11.5	10.5	11.0	11.5	11.5	11.5	9.0	8.5	9.0
23	10.0	9.5	10.0	11.0	10.5	11.0	11.5	11.0	11.5	9.5	9.0	9.5
24	10.0	9.5	9.5	11.5	10.5	11.0	12.0	10.5	11.0	10.0	9.5	9.5
25	10.5	9.5	10.0	11.5	10.5	11.0	12.5	11.5	12.0	9.5	9.0	9.5
26	11.5	9.5	10.5	12.0	11.0	11.5	11.5	11.0	11.5	9.0	8.0	8.5
27	12.0	10.5	11.0	12.0	11.5	12.0	11.5	11.0	11.0	8.0	7.5	8.0
28	11.5	11.0	11.0	12.0	11.5	11.5	11.0	10.5	11.0	9.0	8.0	8.5
29	11.5	11.0	11.0	11.5	11.0	11.0	11.0	10.5	11.0	8.5	8.5	8.5
30	11.5	10.5	11.0	11.5	10.5	11.0	11.5	11.0	11.0	8.5	8.0	8.5
31	---	---	---	11.5	11.0	11.0	11.0	10.5	11.0	---	---	---
MONTH	12.0	8.0	10.0	12.0	10.0	11.0	13.0	10.5	11.6	11.0	7.5	9.8

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA

LOCATION.--Lat 57°07'31", long 135°19'54", in SW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 1, T. 55 S., R. 63 E. (Sitka A-4 quad), Hydrologic Unit 19010203, on Baranof Island, in Tongass National Forest, on right bank 2.3 mi upstream from mouth, and 4.3 mi north of Sitka.

DRAINAGE AREA.--4.29 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharge. Records fair. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	79	204	12	165	44	10	12	4.4	11	13	65
2	35	65	432	12	72	35	10	11	4.4	29	11	34
3	26	311	146	11	35	27	9.7	11	3.9	28	10	23
4	38	84	50	11	22	34	11	10	3.6	20	16	17
5	70	43	30	15	15	25	12	9.7	3.7	13	50	16
6	47	30	22	12	12	19	13	9.7	3.2	9.5	40	85
7	59	24	17	9.8	22	24	11	9.6	3.1	9.3	25	267
8	34	20	14	8.5	181	38	11	9.7	2.9	7.3	17	84
9	25	18	30	7.5	67	36	13	9.6	2.7	6.3	13	40
10	30	15	21	7.3	79	130	16	9.8	3.1	6.5	11	25
11	22	14	155	5.8	41	75	14	9.5	4.0	5.8	9.4	21
12	107	14	92	4.8	23	44	14	9.8	3.3	5.5	8.1	24
13	109	21	49	5.3	16	30	11	11	2.7	7.4	7.5	78
14	38	64	67	5.1	14	22	9.8	12	8.0	7.2	7.0	42
15	28	119	41	4.9	13	17	8.9	9.8	6.5	10	6.9	24
16	23	82	162	9.6	48	14	8.5	7.8	4.1	7.8	6.4	17
17	19	52	168	38	32	12	9.6	7.0	3.3	77	6.0	51
18	16	39	169	97	18	9.7	12	6.8	3.0	110	31	181
19	14	156	113	178	13	8.0	182	6.7	3.1	40	23	285
20	13	561	58	81	11	7.4	69	6.3	4.0	22	19	124
21	20	157	35	49	10	7.0	74	6.3	5.9	16	18	54
22	26	55	87	55	13	6.9	41	5.8	5.2	14	152	38
23	16	42	371	40	27	6.3	35	5.6	4.9	13	49	108
24	38	137	370	29	23	5.9	36	5.6	5.2	10	27	362
25	25	102	67	22	17	5.5	34	5.4	4.3	9.2	221	108
26	17	86	37	36	14	5.5	30	5.2	3.6	24	81	52
27	85	66	43	50	16	8.0	28	6.3	3.2	70	39	38
28	154	96	64	51	43	7.4	26	5.5	3.3	37	21	162
29	195	59	27	51	---	7.7	20	4.7	4.1	22	18	237
30	69	100	17	84	---	8.6	15	5.0	3.7	16	140	153
31	44	---	14	86	---	15	---	4.5	---	15	149	---
TOTAL	1485	2711	3172	1088.6	1062	734.9	794.5	248.7	120.4	678.8	1245.3	2815
MEAN	47.9	90.4	102	35.1	37.9	23.7	26.5	8.02	4.01	21.9	40.2	93.8
MAX	195	561	432	178	181	130	182	12	8.0	110	221	362
MIN	13	14	14	4.8	10	5.5	8.5	4.5	2.7	5.5	6.0	16
AC-FT	2950	5380	6290	2160	2110	1460	1580	493	239	1350	2470	5580
CFSM	11.2	21.1	23.9	8.19	8.84	5.53	6.17	1.87	0.94	5.10	9.36	21.9
IN.	12.88	23.51	27.51	9.44	9.21	6.37	6.89	2.16	1.04	5.89	10.80	24.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

	2004	2005	2004	2005	2004	2005	2004	2005	2004	2005	2004	2005
MEAN	47.9	68.5	70.5	36.9	44.6	27.5	32.2	19.5	7.26	16.8	23.9	76.8
MAX	47.9	90.4	102	38.7	51.1	31.3	37.9	31.0	10.5	21.9	40.2	93.8
(WY)	2005	2005	2005	2004	2004	2004	2004	2004	2004	2005	2005	2005
MIN	47.9	46.6	38.7	35.1	37.9	23.7	26.5	8.02	4.01	11.7	7.55	59.7
(WY)	2005	2004	2004	2005	2005	2005	2005	2005	2005	2004	2004	2004

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 2004 - 2005

ANNUAL TOTAL	15821.1	16156.2	
ANNUAL MEAN	43.2	44.3	44.3
HIGHEST ANNUAL MEAN			44.3 2005
LOWEST ANNUAL MEAN			44.3 2005
HIGHEST DAILY MEAN	561 Nov 20	561 Nov 20	561 Nov 20 2004
LOWEST DAILY MEAN	2.5 Jul 19	a2.7 Jun 9	2.5 Jul 19 2004
ANNUAL SEVEN-DAY MINIMUM	2.6 Jul 17	3.1 Jun 7	2.6 Jul 17 2004
MAXIMUM PEAK FLOW		b1330 Nov 20	1330 Nov 20 2004
MAXIMUM PEAK STAGE		14.91 Nov 20	14.91 Nov 20 2004
INSTANTANEOUS LOW FLOW		c2.5 Jun 13	d2.4 Jul 19 2004
ANNUAL RUNOFF (AC-FT)	31380	32050	32070
ANNUAL RUNOFF (CFSM)	10.1	10.3	10.3
ANNUAL RUNOFF (INCHES)	137.19	140.10	140.19
10 PERCENT EXCEEDS	101	109	109
50 PERCENT EXCEEDS	22	20	20
90 PERCENT EXCEEDS	4.5	5.5	5.5

a June 09 and 13, 2005  
b Nov. 20, and Dec. 02  
c June 13-14  
d July 19-20, 2004

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2003 to current year.

PERIOD OF DAILY RECORD.--  
WATER TEMPERATURE:October 2003 to current year.

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

REMARKS.--  
2004: Temperature record started on October 23. No record from June 21 to July 5, July 8-25, and August 7-26 when probe out of water. Records represent water temperature at sensor within 0.5°C.  
2005: No record when probe buried in gravel April 19 to May 19, out of water June 3-13, and damaged June 19 to July 19. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with stream average by cross section on November 16, January 10, March 2, May 19, and July 19. No variation was found within the cross section. The variation between mean stream temperature and temperature at the sensor is less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--  
WATER TEMPERATURE: Maximum recorded, 12.0°C July 27-28, 2004, and August 18, and 25, 2005, but may have been higher during period of missing record; minimum, 0.5°C, February 7-8, 2004, and January 17-18, 2005.

EXTREMES FOR WATER YEAR 2004.--  
WATER TEMPERATURE: Maximum recorded, 12.0°C, July 27-28, but may have been higher during period of missing record; minimum, 0.5°C, February 7-8.

EXTREMES FOR WATER YEAR 2005.--  
WATER TEMPERATURE: Maximum recorded, 12.0°C, August 18, and 25, but may have been higher during period of missing record; minimum, 0.5°C, January 17-18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Location in X-sect. looking downstrm ft from l bank (00009)	Specif. conduc-tance, wat unfltrd uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Temper-ature, air, deg C (00020)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
NOV									
16...	1347	34.0	46	7.4	4.3	20.0	747	11.6	91
16...	1349	27.0	46	7.3	4.3	20.0	747	11.4	89
16...	1350	20.0	46	7.3	4.3	20.0	747	11.1	87
16...	1352	13.0	46	7.3	4.3	20.0	747	10.8	85
16...	1354	6.00	45	7.3	4.3	20.0	747	10.7	84
JAN									
10...	1423	2.50	65	7.4	2.5	6.0	751	13.0	97
10...	1424	7.50	65	7.4	2.5	6.0	751	13.0	97
10...	1425	12.5	65	7.4	2.5	6.0	751	13.1	97
10...	1426	17.5	64	7.4	2.5	6.0	751	13.0	97
MAR									
02...	1353	3.00	48	7.7	4.1	12.5	746	12.5	98
02...	1354	10.0	48	7.7	4.1	12.5	746	12.5	98
02...	1355	17.0	48	7.7	4.1	12.5	746	12.5	98
02...	1356	24.0	48	7.7	4.1	12.5	746	12.5	98
02...	1357	31.0	48	7.7	4.2	12.5	746	12.5	98
MAY									
19...	1834	5.00	60	7.3	7.6	15.0	747	11.1	95
19...	1835	7.00	60	7.3	7.6	15.0	747	11.1	95
19...	1836	9.00	60	7.3	7.7	15.0	747	11.1	95
19...	1837	11.0	60	7.3	7.7	15.0	747	11.1	95
JUL									
19...	1505	10.0	53	7.4	9.9	14.3	758	11.0	98
19...	1506	15.0	53	7.4	9.9	14.3	758	11.0	98
19...	1507	20.0	53	7.4	9.9	14.3	758	11.0	98
19...	1508	25.0	54	7.4	9.9	14.3	758	11.0	98
19...	1509	30.0	54	7.4	9.9	14.3	758	11.0	98

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Specif. conduc-tance, wat unfltrd uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)
NOV													
16...	1420	9	9	35.0	11.41	99	10	3044	46	7.3	20.0	4.3	747
JAN													
10...	1445	9	9	20.0	10.14	7.2	10	3044	65	7.4	6.0	2.5	751
MAR													
02...	1415	9	9	34.0	10.78	33	10	3044	48	7.7	12.5	4.0	746
MAY													
19...	1805	9	9	18.0	10.15	6.1	10	3044	60	7.3	15.0	7.6	747
JUL													
19...	1450	9	9	30.0	10.80	36	10	3044	53	7.4	14.3	9.9	760

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium unfltrd recover-able, mg/L (00916)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, unfltrd recover-able, mg/L (00927)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)
NOV 16...	11.1	87	17	5.19	5.75	.69	.651	2.19	.22	15	12	1.2	4.82
JAN 10...	13.0	97	28	--	9.38	--	.995	2.65	.18	28	23	2.5	4.36
MAR 02...	12.5	97	20	--	6.71	--	.673	2.06	E.12	18	14	1.8	3.27
MAY 19...	11.1	95	26	8.82	8.80	.90	.90	2.33	.19	30	25	2.3	2.72
JUL 19...	11.0	97	21	--	7.35	--	.713	1.98	E.14	22	18	2.0	2.36

Date	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC, wat flt mg/L (70300)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Alum-inum, water, unfltrd recover-able, mg/L (01105)
NOV 16...	<.1	3.04	32	26	E.001	.126	<.010	E.09	E.08	<.004	<.004	<.006	37
JAN 10...	<.1	4.09	36	39	<.002	.153	<.010	<.10	<.10	E.002	E.002	E.003	--
MAR 02...	<.1	3.18	25	--	<.002	.104	<.010	<.10	<.10	E.002	<.004	<.006	--
MAY 19...	<.1	3.81	43	37	<.002	.093	<.010	<.10	<.10	.005	E.004	<.006	34
JUL 19...	<.1	3.29	31	--	E.001	.133	.010	E.07	<.10	<.004	<.004	E.003	--

Date	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, unfltrd ug/L (01097)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, unfltrd recover-able, ug/L (01007)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, unfltrd recover-able, ug/L (01012)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, unfltrd recover-able, ug/L (01022)	Boron, water, fltrd, ug/L (01020)	Cadmium water, unfltrd ug/L (01027)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)
NOV 16...	28	<.2	<.20	E.2	3	3	<.06	<.06	E4	E5	<.04	<.04	<.8
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	8	<.2	<.20	.3	4	4	<.06	<.06	N	13	<.04	<.04	<.8
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, unfltrd recover-able, ug/L (01037)	Cobalt water, fltrd, ug/L (01035)	Copper, unfltrd recover-able, ug/L (01042)	Copper, water, fltrd, ug/L (01040)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, unfltrd recover-able, ug/L (01051)	Lead, water, fltrd, ug/L (01049)	Lithium water, unfltrd recover-able, ug/L (01132)	Lithium water, fltrd, ug/L (01130)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mangan-ese, water, fltrd, ug/L (01056)
NOV 16...	<.8	.043	.028	.8	.4	30	17	<.06	<.08	<.6	<.6	1	.9
JAN 10...	--	--	--	--	--	--	E4	--	--	--	--	--	<.6
MAR 02...	--	--	--	--	--	--	9	--	--	--	--	--	E.5
MAY 19...	<.8	.071	.040	E.4	.7	50	<6	.19	.11	<.6	<.6	3	.3
JUL 19...	--	--	--	--	--	--	14	--	--	--	--	--	.6



## SOUTHEAST ALASKA

## 15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Mercury water, unfltrd recover- able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)	Molyb- denum, water, unfltrd recover- able, ug/L (01062)	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, unfltrd recover- able, ug/L (01067)	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, unfltrd ug/L (01147)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, unfltrd recover- able, ug/L (01077)	Silver, water, fltrd, ug/L (01075)	Stront- ium, water, unfltrd recover- able, ug/L (01082)	Stront- ium, water, fltrd, ug/L (01080)	Thall- ium, water, unfltrd ug/L (01059)
NOV 16...	E.01	E.01	<.2	<.4	.34	.23	<.4	E.2	<.16	<.2	N	25	<.2
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	<.01	<.01	.2	E.2	.24	.21	<.4	<.4	<.16	<.2	34.1	28.6	<.2
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--	--

  

Date	Thall- ium, water, fltrd, ug/L (01057)	Vanad- ium, water, fltrd, ug/L (01085)	Zinc, water, unfltrd recover- able, ug/L (01092)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water unfltrd ug/L (28011)	Uranium natural water, fltrd, ug/L (22703)	Organic carbon, water, fltrd, mg/L (00681)	Total carbon, suspnd sedimnt mg/L (00694)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
NOV 16...	<.04	.1	<2	1.1	<.012	<.04	1.8	<.1	<.02	1	.27
JAN 10...	--	--	--	--	--	--	.5	--	--	<1	--
MAR 02...	--	--	--	--	--	--	1.1	--	--	<1	--
MAY 19...	<.04	.3	<2	3.6	<.012	<.04	.5	<.1	<.02	1	.02
JUL 19...	--	--	--	--	--	--	1.7	--	--	1	.10

## 15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	5.5	5.0	5.5	3.0	2.5	2.5	3.0	3.0	3.0
2	---	---	---	5.5	5.0	5.5	3.0	2.5	3.0	3.5	3.0	3.5
3	---	---	---	5.5	5.5	5.5	3.0	2.5	3.0	3.5	3.5	3.5
4	---	---	---	5.5	5.5	5.5	3.5	3.0	3.0	4.0	3.5	3.5
5	---	---	---	6.0	5.5	6.0	3.5	3.0	3.5	4.0	3.5	4.0
6	---	---	---	6.0	5.5	6.0	3.5	3.0	3.5	4.0	4.0	4.0
7	---	---	---	6.5	6.0	6.5	3.5	3.5	3.5	4.0	4.0	4.0
8	---	---	---	6.5	6.5	6.5	3.5	3.5	3.5	4.0	4.0	4.0
9	---	---	---	6.5	5.0	5.0	3.5	3.0	3.5	4.0	3.0	3.5
10	---	---	---	5.0	4.5	5.0	3.5	3.0	3.5	3.0	2.5	3.0
11	---	---	---	5.5	4.5	5.0	4.0	3.5	3.5	2.5	2.0	2.0
12	---	---	---	6.5	5.5	6.0	4.0	3.0	3.5	2.5	2.0	2.5
13	---	---	---	5.5	4.5	5.0	3.5	3.0	3.5	2.0	1.5	2.0
14	---	---	---	4.5	4.5	4.5	3.5	3.0	3.5	2.5	2.0	2.5
15	---	---	---	5.0	4.5	4.5	4.0	2.5	3.5	2.5	2.0	2.0
16	---	---	---	5.0	4.5	4.5	3.0	2.5	3.0	2.5	2.0	2.5
17	---	---	---	4.5	4.0	4.5	3.0	2.0	2.5	2.5	2.0	2.5
18	---	---	---	4.0	3.5	4.0	3.5	3.0	3.0	3.0	2.5	3.0
19	---	---	---	3.5	3.5	3.5	3.5	3.0	3.5	3.0	2.5	2.5
20	---	---	---	3.5	3.5	3.5	3.5	3.0	3.5	3.5	3.0	3.0
21	---	---	---	4.0	3.5	4.0	4.0	3.0	3.5	3.5	3.5	3.5
22	---	---	---	4.0	2.0	3.0	4.0	3.0	3.5	3.5	3.0	3.5
23	5.5	5.5	5.5	3.0	2.5	2.5	4.0	3.5	3.5	3.0	2.5	2.5
24	7.5	5.5	6.5	3.0	2.5	2.5	4.0	3.5	3.5	2.5	1.5	2.0
25	9.0	7.5	8.0	3.0	3.0	3.0	4.0	2.5	3.0	1.5	1.0	1.0
26	9.0	7.0	8.0	3.0	2.5	3.0	2.5	2.5	2.5	1.0	1.0	1.0
27	7.0	6.5	7.0	3.0	3.0	3.0	2.5	2.5	2.5	1.5	1.0	1.0
28	6.5	5.5	6.0	3.5	2.5	3.0	3.0	2.5	2.5	1.5	1.0	1.5
29	5.5	4.5	5.0	3.0	2.5	3.0	3.0	3.0	3.0	2.0	1.5	1.5
30	5.0	4.5	4.5	3.5	1.0	2.5	3.5	2.5	3.0	2.0	1.5	2.0
31	5.5	5.0	5.5	---	---	---	3.0	2.5	2.5	2.5	2.0	2.0
MONTH	---	---	---	6.5	1.0	4.4	4.0	2.0	3.2	4.0	1.0	2.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.0	2.5	3.0	3.0	3.0	3.0	2.0	2.5	5.0	4.5	5.0
2	2.5	2.0	2.5	3.0	3.0	3.0	2.5	2.0	2.0	5.5	4.5	5.0
3	2.5	2.0	2.5	3.0	3.0	3.0	3.0	2.0	2.5	5.5	4.5	5.0
4	2.5	2.0	2.5	3.0	2.5	3.0	3.0	2.0	2.5	6.5	4.5	5.0
5	2.5	2.0	2.0	2.5	2.5	2.5	3.5	2.5	3.0	6.0	4.0	5.0
6	2.0	1.0	1.5	3.0	2.5	2.5	4.0	3.0	3.5	6.0	4.5	5.0
7	2.0	0.5	1.5	2.5	2.0	2.5	4.0	3.0	3.5	6.0	4.5	5.0
8	2.0	0.5	1.0	3.0	2.0	2.5	4.0	2.5	3.0	5.5	5.0	5.0
9	3.0	2.0	2.5	2.5	2.0	2.5	4.0	3.5	3.5	5.5	5.0	5.0
10	3.0	2.5	3.0	2.5	2.0	2.5	4.5	3.0	4.0	6.0	5.0	5.5
11	3.0	2.5	3.0	3.0	2.5	3.0	5.0	3.5	4.0	6.5	5.0	6.0
12	3.0	2.5	3.0	3.5	3.0	3.0	4.0	4.0	4.0	7.0	5.0	6.0
13	3.5	3.0	3.5	3.0	2.5	3.0	4.5	3.5	4.0	7.0	5.0	6.0
14	3.5	2.5	3.0	3.0	2.0	3.0	5.0	3.5	4.0	6.5	5.5	5.5
15	2.5	2.5	2.5	2.5	2.0	2.5	4.0	3.0	3.5	5.5	5.5	5.5
16	3.0	2.5	2.5	2.5	1.5	2.0	4.0	3.0	3.5	6.0	5.5	5.5
17	3.0	3.0	3.0	3.0	2.0	2.5	4.0	3.5	3.5	6.0	5.5	6.0
18	3.5	3.0	3.0	3.0	2.0	2.5	4.0	3.5	3.5	7.0	5.5	6.0
19	3.5	3.0	3.0	2.5	2.0	2.5	4.5	3.0	4.0	7.0	6.0	6.0
20	3.5	3.0	3.0	3.0	2.5	3.0	5.0	3.5	4.0	7.5	6.0	6.5
21	3.5	3.0	3.5	3.5	2.5	3.0	5.0	3.5	4.0	7.5	6.0	7.0
22	4.0	3.0	3.5	3.5	2.5	3.0	4.5	3.5	4.0	7.5	6.0	6.5
23	4.0	3.5	4.0	3.5	2.5	3.0	4.0	3.5	3.5	7.5	6.0	6.5
24	3.5	3.0	3.5	3.5	2.5	3.0	4.0	3.5	4.0	7.0	6.5	6.5
25	3.0	3.0	3.0	3.5	3.0	3.0	4.5	4.0	4.0	7.0	6.0	6.5
26	3.0	3.0	3.0	3.5	3.0	3.0	4.5	3.5	4.0	6.0	6.0	6.0
27	3.0	2.5	3.0	3.0	2.5	3.0	4.5	3.5	4.0	6.5	5.5	6.0
28	3.0	3.0	3.0	3.0	2.5	3.0	5.0	4.0	4.5	6.5	5.5	6.0
29	3.0	3.0	3.0	3.0	1.5	2.5	5.5	4.0	4.5	6.5	5.5	6.0
30	---	---	---	2.0	1.5	2.0	6.5	4.5	5.5	7.0	6.0	6.5
31	---	---	---	2.5	2.0	2.0	---	---	---	7.0	6.0	6.5
MONTH	4.0	0.5	2.8	3.5	1.5	2.7	6.5	2.0	3.7	7.5	4.0	5.8

## SOUTHEAST ALASKA

## 15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.0	6.5	---	---	---	9.5	9.5	9.5	10.5	9.5	10.0
2	6.5	6.0	6.5	---	---	---	10.0	9.5	9.5	11.5	9.5	10.0
3	7.5	6.0	6.5	---	---	---	10.0	9.5	10.0	11.0	10.0	10.5
4	7.5	6.5	7.0	---	---	---	10.5	9.5	10.0	10.0	9.5	10.0
5	8.0	7.0	7.5	---	---	---	10.0	9.5	9.5	9.5	9.0	9.5
6	8.0	7.0	7.5	9.5	8.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5
7	9.0	7.0	8.0	9.5	8.5	9.0	---	---	---	9.5	9.0	9.0
8	8.0	7.0	7.5	---	---	---	---	---	---	9.0	8.0	8.5
9	7.5	7.0	7.0	---	---	---	---	---	---	8.5	8.0	8.0
10	7.0	6.5	7.0	---	---	---	---	---	---	8.5	7.5	8.0
11	7.0	6.5	6.5	---	---	---	---	---	---	8.5	8.0	8.0
12	7.5	7.0	7.0	---	---	---	---	---	---	8.5	8.0	8.5
13	7.5	7.0	7.0	---	---	---	---	---	---	8.5	8.5	8.5
14	7.0	7.0	7.0	---	---	---	---	---	---	8.5	8.0	8.5
15	8.0	6.5	7.0	---	---	---	---	---	---	8.5	8.0	8.0
16	8.5	7.0	7.5	---	---	---	---	---	---	8.0	7.5	8.0
17	9.0	7.0	8.0	---	---	---	---	---	---	8.0	7.5	7.5
18	9.5	7.5	8.5	---	---	---	---	---	---	8.0	7.0	7.5
19	10.0	8.0	9.0	---	---	---	---	---	---	8.0	7.0	7.5
20	10.5	8.5	9.5	---	---	---	---	---	---	10.5	7.5	8.5
21	---	8.0	---	---	---	---	---	---	---	10.5	8.5	9.0
22	---	---	---	---	---	---	---	---	---	8.5	8.0	8.5
23	---	---	---	---	---	---	---	---	---	9.5	8.5	9.0
24	---	---	---	---	---	---	---	---	---	8.5	8.0	8.5
25	---	---	---	---	---	---	---	---	---	8.0	7.5	7.5
26	---	---	---	10.0	9.5	10.0	---	---	---	8.5	7.5	8.0
27	---	---	---	12.0	10.0	10.5	11.0	9.0	10.5	8.5	7.5	8.5
28	---	---	---	12.0	10.5	11.0	11.0	10.5	11.0	8.0	7.5	7.5
29	---	---	---	11.0	10.0	10.0	10.5	10.0	10.5	8.0	8.0	8.0
30	---	---	---	10.0	9.5	10.0	10.5	10.0	10.0	8.0	8.0	8.0
31	---	---	---	10.0	9.5	10.0	10.5	9.5	10.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	11.5	7.0	8.5

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	8.0	8.0	4.5	4.5	4.5	4.5	4.0	4.5	1.5	1.5	1.5
2	8.0	8.0	8.0	4.5	4.0	4.0	4.5	4.5	4.5	2.5	1.5	2.0
3	8.0	8.0	8.0	5.5	4.5	4.5	4.5	3.5	4.0	2.5	2.5	2.5
4	8.5	8.0	8.0	5.0	4.0	4.5	4.0	3.0	3.5	3.0	2.5	2.5
5	8.5	8.0	8.5	4.0	3.5	4.0	3.5	3.0	3.5	2.5	2.0	2.5
6	8.0	7.5	7.5	4.0	3.5	4.0	3.0	3.0	3.0	2.0	2.0	2.0
7	8.0	7.5	7.5	4.0	3.5	3.5	3.0	2.5	3.0	2.0	1.5	2.0
8	7.5	7.5	7.5	4.0	3.5	4.0	3.0	2.5	3.0	2.0	2.0	2.0
9	8.0	7.5	7.5	4.0	3.5	3.5	3.0	2.0	2.5	2.0	1.5	2.0
10	8.0	7.0	7.5	3.5	3.5	3.5	3.0	2.5	3.0	2.5	2.0	2.5
11	7.0	6.5	7.0	4.0	3.5	3.5	3.0	2.5	3.0	2.5	1.5	2.0
12	9.5	6.5	7.5	4.0	3.5	4.0	3.5	3.0	3.5	2.0	1.5	2.0
13	9.0	8.0	8.5	4.5	4.0	4.0	4.0	3.5	3.5	1.5	1.5	1.5
14	8.0	7.5	7.5	4.5	4.0	4.5	4.0	3.5	3.5	2.0	1.5	2.0
15	7.5	7.0	7.5	4.5	4.0	4.5	4.0	3.5	3.5	2.0	2.0	2.0
16	7.0	6.5	6.5	4.5	4.0	4.0	4.5	4.0	4.0	2.5	1.0	1.5
17	6.5	6.0	6.0	4.0	4.0	4.0	5.0	4.5	4.5	1.5	0.5	1.0
18	6.0	5.0	5.5	4.0	4.0	4.0	5.0	3.0	4.5	1.5	0.5	1.0
19	5.5	4.5	5.0	4.5	4.0	4.5	4.0	3.0	3.5	2.0	1.0	1.5
20	5.5	5.0	5.0	5.0	4.5	5.0	4.0	3.5	3.5	2.5	2.0	2.5
21	5.5	5.0	5.0	5.0	4.5	5.0	3.5	3.5	3.5	3.5	2.5	3.0
22	5.5	4.5	5.0	4.5	4.5	4.5	5.0	3.5	4.0	3.5	3.0	3.0
23	5.0	4.5	4.5	4.5	4.5	4.5	5.0	4.5	5.0	3.0	2.5	2.5
24	5.0	4.5	5.0	4.5	3.0	4.0	5.0	3.5	4.0	3.0	2.5	3.0
25	5.0	4.5	4.5	3.5	3.0	3.5	3.5	2.5	3.0	3.0	2.5	3.0
26	5.5	4.5	5.0	4.0	3.0	4.0	2.5	2.5	2.5	3.5	3.0	3.0
27	6.0	5.5	5.5	4.0	4.0	4.0	3.0	2.5	2.5	3.5	3.0	3.5
28	5.5	5.0	5.5	4.0	4.0	4.0	3.0	2.5	3.0	3.5	3.0	3.5
29	5.5	4.5	5.5	4.5	4.0	4.5	3.0	1.5	2.0	3.5	3.0	3.0
30	5.0	4.0	4.5	4.5	4.0	4.5	1.5	1.0	1.5	3.5	3.0	3.5
31	5.0	4.0	4.5	---	---	---	1.5	1.0	1.5	3.0	3.0	3.0
MONTH	9.5	4.0	6.4	5.5	3.0	4.2	5.0	1.0	3.4	3.5	0.5	2.3

## 15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	2.5	3.0	4.0	3.5	4.0	3.0	2.5	3.0	---	---	---
2	3.0	2.5	3.0	4.0	3.5	4.0	3.0	2.5	3.0	---	---	---
3	2.5	2.5	2.5	3.5	3.0	3.5	3.5	3.0	3.0	---	---	---
4	2.5	2.0	2.5	4.0	3.5	3.5	3.5	2.5	3.0	---	---	---
5	2.0	1.5	1.5	4.0	3.5	3.5	4.0	3.0	3.5	---	---	---
6	2.0	1.5	1.5	3.5	3.0	3.5	3.5	3.0	3.0	---	---	---
7	2.0	1.0	2.0	4.0	3.5	3.5	3.5	3.0	3.0	---	---	---
8	2.0	1.0	1.5	4.5	4.0	4.0	3.5	3.0	3.5	---	---	---
9	3.0	2.0	2.5	4.0	3.5	4.0	4.0	3.5	3.5	---	---	---
10	3.0	2.5	2.5	4.5	3.5	4.0	4.0	3.0	3.5	---	---	---
11	2.5	2.0	2.5	4.0	3.5	4.0	4.0	3.5	3.5	---	---	---
12	2.5	2.0	2.0	4.5	4.0	4.0	4.0	3.0	3.5	---	---	---
13	2.0	2.0	2.0	4.5	3.5	4.0	4.0	3.0	3.5	---	---	---
14	2.5	2.0	2.0	4.5	4.0	4.0	4.0	3.0	3.5	---	---	---
15	2.5	2.0	2.5	4.0	3.0	3.5	4.0	3.0	3.5	---	---	---
16	2.5	2.0	2.0	3.5	3.0	3.0	4.0	3.5	4.0	---	---	---
17	2.5	2.0	2.5	3.5	3.0	3.0	4.5	3.5	4.0	---	---	---
18	2.5	2.0	2.0	3.0	2.5	3.0	4.5	4.0	4.0	---	---	---
19	2.5	2.0	2.0	3.0	2.5	2.5	---	---	---	7.5	---	---
20	2.5	2.0	2.5	3.0	2.5	2.5	---	---	---	7.5	7.0	7.0
21	3.0	2.5	2.5	3.0	2.5	3.0	---	---	---	7.5	7.0	7.0
22	3.0	2.5	2.5	3.5	3.0	3.0	---	---	---	8.0	6.5	7.5
23	3.0	2.5	2.5	3.5	3.0	3.0	---	---	---	7.5	7.0	7.0
24	3.0	2.5	3.0	3.5	3.0	3.0	---	---	---	7.5	7.0	7.0
25	3.0	2.5	3.0	3.5	3.0	3.5	---	---	---	7.5	6.5	7.0
26	3.5	3.0	3.0	3.5	3.5	3.5	---	---	---	8.0	7.0	7.5
27	4.0	3.0	3.5	3.5	3.0	3.5	---	---	---	7.5	7.0	7.5
28	3.5	3.5	3.5	3.5	3.0	3.5	---	---	---	8.0	7.0	7.5
29	---	---	---	3.5	3.0	3.0	---	---	---	8.0	7.0	7.5
30	---	---	---	3.5	3.0	3.0	---	---	---	8.0	7.0	7.5
31	---	---	---	3.5	2.5	3.0	---	---	---	8.5	7.0	7.5
MONTH	4.0	1.0	2.4	4.5	2.5	3.4	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.5	7.5	8.0	---	---	---	10.0	9.0	9.5	9.5	9.0	9.0
2	8.5	7.5	8.0	---	---	---	9.5	9.0	9.5	9.5	9.0	9.0
3	---	---	---	---	---	---	10.0	9.0	9.5	9.5	9.0	9.0
4	---	---	---	---	---	---	10.0	9.0	9.5	9.0	8.5	9.0
5	---	---	---	---	---	---	10.5	10.0	10.0	9.5	9.0	9.0
6	---	---	---	---	---	---	10.5	9.5	10.0	10.5	9.5	10.0
7	---	---	---	---	---	---	10.5	9.5	10.0	11.0	9.5	10.0
8	---	---	---	---	---	---	10.5	9.5	10.0	9.5	9.5	9.5
9	---	---	---	---	---	---	11.0	9.5	10.5	9.5	8.5	9.0
10	---	---	---	---	---	---	11.0	10.0	10.5	9.5	9.0	9.0
11	---	---	---	---	---	---	11.0	10.0	10.5	9.5	9.5	9.5
12	---	---	---	---	---	---	11.0	10.0	10.5	10.0	9.0	9.5
13	---	---	---	---	---	---	11.0	10.0	10.5	10.5	9.5	10.0
14	8.5	7.0	8.0	---	---	---	10.5	10.0	10.5	9.5	9.5	9.5
15	8.5	7.5	8.0	---	---	---	10.5	10.0	10.0	9.5	9.0	9.0
16	8.5	7.5	8.0	---	---	---	10.5	10.0	10.0	9.0	8.5	9.0
17	8.5	7.5	8.0	---	---	---	10.5	10.0	10.0	9.5	9.0	9.5
18	8.5	8.0	8.0	---	---	---	12.0	10.0	11.5	9.5	9.0	9.5
19	---	---	---	---	---	---	11.5	11.0	11.0	9.0	8.5	9.0
20	---	---	---	9.5	9.0	9.5	11.0	10.5	10.5	9.0	8.5	8.5
21	---	---	---	10.0	9.0	9.5	11.0	10.5	10.5	8.5	8.0	8.5
22	---	---	---	10.0	9.5	9.5	11.0	10.5	11.0	8.5	8.0	8.5
23	---	---	---	10.5	9.5	10.0	10.5	10.0	10.0	9.5	8.5	9.0
24	---	---	---	10.0	9.5	10.0	10.5	10.0	10.0	10.0	9.0	9.5
25	---	---	---	10.0	9.5	9.5	12.0	10.5	11.0	9.0	8.0	8.5
26	---	---	---	11.0	9.5	10.0	10.5	9.5	10.0	8.5	7.5	8.0
27	---	---	---	11.0	10.5	10.5	10.0	9.5	9.5	8.5	7.5	7.5
28	---	---	---	10.5	10.0	10.0	10.0	9.0	9.5	8.5	8.5	8.5
29	---	---	---	10.0	9.5	10.0	10.0	9.5	9.5	8.5	8.0	8.5
30	---	---	---	10.0	9.5	9.5	10.5	10.0	10.0	8.0	7.5	8.0
31	---	---	---	10.0	9.5	9.5	10.0	9.5	9.5	---	---	---
MONTH	---	---	---	---	---	---	12.0	9.0	10.1	11.0	7.5	9.0

## 15087690 INDIAN RIVER NEAR SITKA

LOCATION.--Lat 57°04'01", long 135°17'42", in SW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 30, T. 55 S., R. 64 E. (Sitka A-4 quad), Hydrologic Unit 19010203, in Tongass National Forest, on Baranof Island, on right bank 2 mi upstream from mouth, and 1 mi northeast of Sitka.

DRAINAGE AREA.--10.1 mi<sup>2</sup>

PERIOD OF RECORD.--August 1980 to September 1993. October 1998 to current year.

REVISED RECORD.--WDR-82-1: 1980-81.

GAGE.--Water-stage recorder. Elevation of gage is 125 ft above sea level, from topographic map. Prior to October 1998, at site 200 ft upstream and at different datum.

REMARKS.--No estimated daily discharge. Records fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of November 19, 1993, reached a stage of 14.04 ft, site and datum then in use, from recorder, discharge, 6,460 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1200 ft<sup>3</sup>/s and maximum(\*) :

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov. 03	1230	1430	11.39	Dec. 02	1145	3740	13.52
Nov. 20	1700	4560	14.06	Dec. 24	0530	1780	11.81
Dec. 01	1800	1510	11.50	Sept. 24	1445	3590	13.41

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	183	493	62	233	89	22	64	22	22	63	171
2	120	156	1010	57	170	80	25	62	22	60	57	115
3	99	642	254	52	123	66	23	60	19	66	52	97
4	98	182	126	49	100	75	23	55	21	62	53	82
5	133	108	100	56	82	63	30	52	20	40	146	80
6	111	85	87	49	72	54	28	48	18	31	123	200
7	123	74	78	41	76	61	23	51	17	30	88	555
8	98	64	70	36	227	74	24	52	16	26	71	222
9	84	58	76	33	152	81	29	53	15	24	63	128
10	92	50	70	31	160	181	41	54	16	26	57	97
11	80	44	141	26	113	133	33	54	17	25	52	90
12	198	42	120	22	88	118	32	58	15	24	49	102
13	184	52	95	25	75	96	25	60	14	27	44	188
14	100	156	116	24	69	84	23	62	23	27	38	125
15	87	205	91	22	67	71	22	49	22	33	35	95
16	76	157	235	25	161	60	22	38	17	29	33	80
17	65	119	306	64	107	54	23	34	16	160	30	114
18	59	92	357	126	75	45	26	32	16	256	112	247
19	54	286	280	194	65	37	187	29	17	137	83	487
20	49	1680	155	132	58	32	132	28	16	81	61	231
21	64	368	118	112	54	29	147	29	19	90	42	132
22	78	158	186	131	53	28	109	27	20	138	236	109
23	52	130	913	116	56	25	104	25	21	98	112	384
24	97	261	720	101	57	23	119	24	23	72	79	1210
25	65	228	168	90	50	21	122	24	19	60	259	290
26	50	203	121	113	45	21	109	27	17	105	156	176
27	126	184	125	130	47	22	105	28	16	176	118	137
28	213	217	161	125	81	20	108	25	15	130	89	278
29	341	153	98	118	---	22	89	23	15	89	89	366
30	157	270	79	154	---	24	71	24	14	75	290	296
31	125	---	69	155	---	37	---	22	---	69	309	---
TOTAL	3412	6607	7018	2471	2716	1826	1876	1273	538	2288	3089	6884
MEAN	110	220	226	79.7	97.0	58.9	62.5	41.1	17.9	73.8	99.6	229
MAX	341	1680	1010	194	233	181	187	64	23	256	309	1210
MIN	49	42	69	22	45	20	22	22	14	22	30	80
AC-FT	6770	13100	13920	4900	5390	3620	3720	2520	1070	4540	6130	13650
CFSM	10.9	21.8	22.4	7.89	9.60	5.83	6.19	4.07	1.78	7.31	9.87	22.7
IN.	12.57	24.33	25.85	9.10	10.00	6.73	6.91	4.69	1.98	8.43	11.38	25.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)#

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	181	108	105	96.7	81.2	61.6	66.1	99.6	82.4	62.1	86.3	171														
MAX	293	220	226	184	154	122	111	167	166	111	238	295														
(WY)	1988	2005	2005	1984	1993	1986	1983	1983	1985	1985	1983	1991														
MIN	97.1	37.0	21.7	46.3	24.8	19.9	29.0	37.1	17.9	20.6	18.3	52.8														
(WY)	2004	1999	1984	1988	1999	1989	2002	2003	2005	1993	2004	1986														

# See Period of Record; partial years used in monthly statistics and break in record

## 15087690 INDIAN RIVER NEAR SITKA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005#	
ANNUAL TOTAL	35384		39998			
ANNUAL MEAN	96.7		110		100	
HIGHEST ANNUAL MEAN					123 1987	
LOWEST ANNUAL MEAN					76.3 2003	
HIGHEST DAILY MEAN	1680	Nov 20	1680	Nov 20	2000	Oct 12 1982
LOWEST DAILY MEAN	a11	Aug 22	b14	Jun 13	8.6	Jan 18 1989
ANNUAL SEVEN-DAY MINIMUM	11	Aug 19	16	Jun 7	10	Jan 13 1989
MAXIMUM PEAK FLOW			c4560	Nov 20	d5710	Sep 4 1990
MAXIMUM PEAK STAGE			14.06	Nov 20	f13.51	Sep 4 1990
INSTANTANEOUS LOW FLOW			12	Jun 13	8.2	Jan 19 1989
ANNUAL RUNOFF (AC-FT)	70180		79340		72730	
ANNUAL RUNOFF (CFSM)	9.57		10.8		9.94	
ANNUAL RUNOFF (INCHES)	130.33		147.32		135.05	
10 PERCENT EXCEEDS	184		215		184	
50 PERCENT EXCEEDS	65		74		67	
90 PERCENT EXCEEDS	15		22		28	

# See Period of Record; partial years used in monthly statistics and break in record

a Aug. 22-25

b June 13 and 30

c From rating curve extended above 500 ft<sup>3</sup>/s

d From rating curve extended above 3,100 ft<sup>3</sup>/s, at site and datum then in use

f At site and datum then in use

## 15088000 SAWMILL CREEK NEAR SITKA

LOCATION.--Lat 57°03'05", long 135°13'40", in NE<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec. 34, T. 55 S., R. 64 E. (Sitka A-4 quad.), Hydrologic Unit 19010401, on Baranof Island, in Tongass National Forest, on left bank 500 ft upstream from mouth, 1.6 mi downstream from Blue Lake, and 4.0 mi east of Sitka.

DRAINAGE AREA.--39.0 mi<sup>2</sup>.

PERIOD OF RECORD.-- September 1920 to December 1923, February 1928 to September 1942, October 1945 to September 1957, 1994 (peak discharge only, published in WRD AK 95-1), and May 2001 to current year. Records prior to 1945 furnished by U.S. Forest Service.

REVISED RECORDS.-- WSP 1372: 1921-22 and 1928-36.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is sea level, from topographic map. Prior to April 1947, staff gages or water-stage recorders at several sites within 1,700 ft of present site at various datums. April 1947 to September 1957 at site about 200 ft upstream at different datum.

REMARKS.--Records good. Minor regulation above station by Sitka Public Utilities hydroelectric plant during periods 1920-23 and 1937-42. In 1959, Blue Lake Dam, 1.6 mi upstream, was completed. The area of the lake is 1225 acres. The dam is concrete with a spillway elevation of 342.0 ft above sea level. In 1960, the Blue Lake Hydro plant, located 400 ft downstream from gage, was put into operation. Water is taken from Blue Lake and piped via a penstock to Blue Lake hydro, through 2-3,000 kw turbines and discharged back into Sawmill Creek just below high tide level. This penstock also provides water for the City of Sitka and for the filter plant for the Sitka Sawmill. In the years following, Campground Hydro, a smaller generation plant was constructed about 1,000 ft below Blue Lake Dam. It also has a penstock from Blue Lake and discharges directly into Sawmill Creek. A fish bypass valve has been installed at Campground Hydro that automatically releases 50 ft<sup>3</sup>/s to the tailrace anytime the hydro plant is shut down. Another small generator was installed just above the Sawmill Filter Plant diversion from Blue Lake Hydro penstock with the capability of bypassing the filter plant and discharging back into Sawmill Creek above the gage site. Water that went to the filter plant was piped to the sawmill and eventually discharged directly into Silver Bay. The sawmill has since closed and water is now supplied to Sawmill Cove Industrial Park. Flow is constantly regulated except when Blue Lake is spilling.

EXTREMES OUTSIDE PERIOD OF RECORD.-- It was reported that in October 1972, a storm produced a peak elevation at Blue Lake of 353.0 ft or 11.0 ft of spill at the spillway. Extending the spillway rating, this flood was estimated to be 17,000 ft<sup>3</sup>/s. It was reported to have been the largest since 1921.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	263	573	222	87	66	63	60	59	81	208	797
2	473	252	4110	222	79	65	63	60	60	86	168	417
3	240	348	3600	220	71	84	63	60	60	87	163	243
4	154	679	1240	220	64	76	64	60	60	102	189	150
5	512	468	483	224	61	61	67	60	60	279	395	120
6	738	269	248	220	60	60	65	59	60	502	644	227
7	884	230	232	218	60	61	63	59	60	652	511	1800
8	1310	226	228	218	80	64	63	59	60	533	408	1790
9	762	226	228	216	78	65	63	59	60	391	316	1010
10	430	223	228	217	77	92	66	59	61	353	199	471
11	253	222	250	217	70	79	64	59	61	322	184	285
12	461	222	248	216	64	75	63	59	61	283	172	215
13	1620	225	238	215	61	68	62	59	61	313	160	478
14	856	260	242	214	60	65	62	60	63	405	151	473
15	405	258	235	214	59	63	61	59	62	565	140	274
16	254	258	204	215	100	61	60	59	61	481	141	160
17	224	247	207	214	76	60	60	59	61	700	136	161
18	222	239	260	183	66	59	103	58	61	1710	286	1340
19	181	259	588	102	63	58	159	58	61	1240	389	3360
20	219	1080	524	69	60	57	123	59	62	664	300	1990
21	222	2860	314	70	59	57	71	59	64	422	229	930
22	227	1120	277	72	59	57	67	59	63	359	884	495
23	221	507	1800	67	59	58	66	59	85	291	880	931
24	232	463	3900	67	59	55	66	59	124	248	421	3520
25	225	394	1360	64	59	55	65	59	124	211	421	2870
26	221	314	503	66	58	57	64	59	124	274	511	1250
27	229	275	264	66	59	58	63	59	124	538	358	627
28	262	293	248	66	65	58	63	59	87	579	228	1200
29	297	271	241	66	---	59	62	59	78	416	159	1880
30	264	313	228	72	---	60	61	59	79	311	566	1380
31	246	---	224	76	---	65	---	59	---	245	1100	---
TOTAL	13604	13264	23525	4808	1873	1978	2105	1833	2166	13643	11017	30844
MEAN	439	442	759	155	66.9	63.8	70.2	59.1	72.2	440	355	1028
MAX	1620	2860	4110	224	100	92	159	60	124	1710	1100	3520
MIN	154	222	204	64	58	55	60	58	59	81	136	120
AC-FT	26980	26310	46660	9540	3720	3920	4180	3640	4300	27060	21850	61180
CFSM	11.3	11.3	19.5	3.98	1.72	1.64	1.80	1.52	1.85	11.3	9.11	26.4
IN.	12.98	12.65	22.44	4.59	1.79	1.89	2.01	1.75	2.07	13.01	10.51	29.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2005, BY WATER YEAR (WY)#

	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	723	465	270	171	161	125	195	506	667	634	637	747	1204	998	818	500	644	365	663	861	1179	976	1235	1287	1938	1936	1931	1942	1935	1947	1936	1936	1936	1936	1936	1935	1939	1947	354	78.5	50.1	29.9	33.1	24.8	61.5	59.1	53.9	87.0	114	359	1923	2002	1951	1956	1951	1922	1948	2005	2002	2003	2004	1941																								

# See Period of Record; partial years were used in monthly statistics and breaks in record.

## 15088000 SAWMILL CREEK NEAR SITKA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1920 - 2005#	
ANNUAL TOTAL	94712		120660			
ANNUAL MEAN	259		331		447	
HIGHEST ANNUAL MEAN					715 1936	
LOWEST ANNUAL MEAN					182 2004	
HIGHEST DAILY MEAN	4110	Dec 2	4110	Dec 2	5500	Oct 22 1937
LOWEST DAILY MEAN	53	Mar 3	a55	Mar 24	11	Mar 30 1922
ANNUAL SEVEN-DAY MINIMUM	68	Feb 11	57	Mar 20	12	Mar 25 1922
MAXIMUM PEAK FLOW			7210	Dec 2	b10700	Nov 19 1993
MAXIMUM PEAK STAGE			18.22	Dec 2	18.26	Aug 12 2002
INSTANTANEOUS LOW FLOW			a53	Mar 24	c	
ANNUAL RUNOFF (AC-FT)	187900		239300		324000	
ANNUAL RUNOFF (CFSM)	6.64		8.48		11.5	
ANNUAL RUNOFF (INCHES)	90.34		115.09		155.82	
10 PERCENT EXCEEDS	464		715		930	
50 PERCENT EXCEEDS	121		183		310	
90 PERCENT EXCEEDS	96		59		64	

# See Period of Record; partial years were used in monthly statistics and breaks in record.

a Mar. 24 and 25

b On the basis of a slope-area computation of peak flow below Campground Hydro and adding diversion values at the time of peak between Campground Hydro and gage; peak flow below Blue Lake Tailrace was computed to be 11,100 ft<sup>3</sup>/s.

c Undetermined



15088200 SILVER BAY TRIBUTARY AT BEAR COVE NEAR SITKA

LOCATION.--Lat 57°01'09", long 135°09'45", in SW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 13, T. 56 S., R. 64 E. (Sitka A-4 quad), Hydrologic Unit 19010203, in Tongass National Forest, on Baranof Island, on right bank 350 ft upstream from mouth, and 6.5 mi southwest of Sitka.

DRAINAGE AREA.--0.38 mi<sup>2</sup>.

PERIOD OF RECORD.-- October 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 110 ft above sea level, from topographic map.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	15	20	0.11	8.1	5.9	1.1	1.5	0.34	6.8	0.29	1.4
2	1.0	3.0	49	0.10	3.3	3.8	0.94	1.8	0.27	4.1	0.15	0.69
3	0.43	40	6.3	0.15	1.8	2.3	1.1	1.5	0.22	2.3	0.10	0.49
4	2.8	4.0	0.92	0.50	1.00	4.8	1.4	1.3	0.38	0.96	0.13	0.23
5	6.4	1.5	0.47	3.1	0.57	2.0	3.3	1.3	0.31	0.65	18	0.29
6	3.1	1.1	0.31	0.64	0.45	1.4	2.9	1.8	0.24	0.42	2.3	8.3
7	7.0	0.79	0.19	0.30	0.54	1.8	2.4	2.4	0.20	0.91	0.53	24
8	7.1	0.70	e0.00	0.20	14	5.9	2.3	1.9	0.16	0.32	0.24	4.4
9	0.71	0.84	0.57	0.14	5.3	4.8	2.1	2.2	0.10	0.36	0.12	0.76
10	1.2	0.64	0.39	e0.12	5.2	23	2.2	1.9	0.14	1.7	0.08	0.43
11	0.49	0.56	8.1	e0.08	1.9	4.7	2.1	1.5	0.17	0.67	0.06	1.1
12	14	1.8	3.5	e0.06	1.00	4.0	2.1	1.8	0.11	1.4	0.05	9.4
13	3.3	5.9	1.8	e0.00	0.76	2.9	2.0	2.1	0.07	1.8	0.04	15
14	0.83	33	3.7	e0.00	0.65	2.1	2.0	2.4	1.5	1.4	0.01	2.3
15	1.2	9.6	2.8	e0.00	0.76	1.3	1.5	1.2	0.72	1.5	0.04	0.55
16	0.64	6.6	34	e0.00	6.2	1.0	1.0	0.87	0.29	0.55	0.01	0.29
17	0.37	3.4	14	7.4	2.3	1.0	1.7	0.82	0.15	5.6	0.00	7.9
18	0.25	1.7	17	6.7	1.2	0.82	2.0	0.87	0.09	7.7	2.8	38
19	0.18	11	11	6.2	0.95	0.50	9.6	0.74	0.15	1.3	1.1	24
20	0.17	62	2.0	3.4	0.72	0.39	5.5	0.65	0.28	0.53	0.84	6.1
21	1.8	10	0.76	5.8	0.66	0.33	7.4	0.71	3.9	1.1	1.6	1.6
22	2.1	2.2	18	8.2	0.70	0.37	4.1	0.61	1.5	2.2	14	1.5
23	0.61	2.9	37	2.9	1.3	0.51	6.5	0.52	1.2	0.87	2.0	25
24	6.0	19	20	2.0	1.5	0.84	6.6	0.97	1.0	0.33	0.40	37
25	1.2	6.7	1.1	1.3	1.1	0.87	5.7	0.67	0.53	0.19	9.6	4.9
26	0.61	4.7	0.50	6.2	1.5	0.67	4.9	0.79	0.31	3.9	2.7	1.8
27	9.2	14	2.3	5.8	2.8	0.99	4.6	0.68	0.17	4.5	1.1	5.9
28	23	11	3.1	4.5	6.4	0.82	5.6	0.51	0.22	1.2	0.29	16
29	20	4.8	0.47	2.9	---	0.89	2.9	0.39	0.37	0.41	2.2	11
30	3.2	14	0.20	8.7	---	1.1	1.7	0.52	0.27	0.26	9.4	6.7
31	1.8	---	0.13	6.9	---	2.6	---	0.38	---	0.34	8.5	---
TOTAL	123.09	292.43	259.61	84.40	72.66	84.40	99.24	37.30	15.36	56.27	78.68	257.03
MEAN	3.97	9.75	8.37	2.72	2.60	2.72	3.31	1.20	0.51	1.82	2.54	8.57
MAX	23	62	49	8.7	14	23	9.6	2.4	3.9	7.7	18	38
MIN	0.17	0.56	0.00	0.00	0.45	0.33	0.94	0.38	0.07	0.19	0.00	0.23
MED	1.8	4.8	2.3	1.3	1.3	1.3	2.2	0.97	0.27	1.1	0.40	4.6
AC-FT	244	580	515	167	144	167	197	74	30	112	156	510
CFSM	10.4	25.7	22.0	7.16	6.83	7.16	8.71	3.17	1.35	4.78	6.68	22.5
IN.	12.05	28.63	25.41	8.26	7.11	8.26	9.72	3.65	1.50	5.51	7.70	25.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004	2005
MEAN	5.68	4.51	4.99	2.89	2.45	2.00
MAX	7.64	9.75	8.37	3.67	3.42	2.78
(WY)	2002	2005	2005	2004	2004	2002
MIN	3.84	2.85	2.49	1.68	1.12	0.82
(WY)	2004	2001	2003	2000	2000	2002

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 2000 - 2005

ANNUAL TOTAL	1463.61	1506.11	
ANNUAL MEAN	4.00	4.13	3.57
HIGHEST ANNUAL MEAN			4.54
LOWEST ANNUAL MEAN			2.46
HIGHEST DAILY MEAN	62	Nov 20	62
LOWEST DAILY MEAN	a0.00	Aug 13	b0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 13	0.03
MAXIMUM PEAK FLOW			145
MAXIMUM PEAK STAGE			19.50
INSTANTANEOUS LOW FLOW			d0.00
ANNUAL RUNOFF (AC-FT)	2900	2990	2590
ANNUAL RUNOFF (CFSM)	10.5	10.9	9.40
ANNUAL RUNOFF (INCHES)	143.28	147.44	127.69
10 PERCENT EXCEEDS	12	9.6	8.3
50 PERCENT EXCEEDS	1.2	1.5	1.8
90 PERCENT EXCEEDS	0.09	0.24	0.27

- a Aug. 13-19, 21-25
- b Dec. 8, Jan 13-16
- c Dec. 8, Jan 13-16, Jul. 17-18, and Aug. 10, 2003
- d No flow during many days
- e Estimated

## 15090000 GREEN LAKE NEAR SITKA

LOCATION.--Lat 56°59'14", long 135°06'37", in SW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 29, T. 56 S., R. 65 E. (Port Alexander D-4 quad), Hydrologic Unit 19010203, Greater Sitka Borough, on Baranof Island, in Tongass National Forest, 0.4 mi upstream from mouth at Silver Bay, and 9.4 mi southeast of Sitka.

DRAINAGE AREA.--28.8 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1915 to September 1925 (published as "Green Lake Outlet"); monthly discharges only published in WSP 1372. October 1983 to current year (month end reservoir contents and monthly discharges).

REVISED RECORDS.--WSP 1372: 1916, 1917, 1922 (monthly discharge). WDR AK-84-1: Drainage area. WDR AK-86-1: 1984, 1985 (month-end reservoir contents, change in month-end and yearly contents, adjusted mean monthly discharges, and extremes). WRD AK-00-01: 1998-1999 (M m).

GAGE.--Staff gage on upstream face of dam. Datum of gage is at mean low water, which is about 5 ft below sea level. Totalizing MWH meters are on the two turbines in Green Lake powerhouse. September 1915 to September 1925, recording gage at site of present day dam, elevation of gage was 220 ft above sea level, by barometer; prior to December 27, 1916 at datum 1 ft higher. Water years 1983-88, nonrecording remote lake-level indicator at Blue Lake powerhouse (6 mi northwest of gage).

REMARKS.--Reservoir is formed by concrete arch dam located at the outlet of Green Lake, construction began in 1978 and was completed in 1982. Total and usable capacity below spillway crest elevation of 395 ft is 88,000 and 75,000 acre-ft, respectively. Reservoir is used for power. Discharge released through the turbines is computed from relation between discharge, head, and power generation; release flow empties directly into Silver Bay and is not returned to stream. Spill is computed from a theoretical relation between discharge and stage above the crest of the 100 ft wide spillway. Turbine and spillway ratings and reservoir capacity table furnished by City and Borough of Sitka in 1983. Corrected reservoir capacity table furnished in April 1987.

COOPERATION.--Daily reservoir elevations and MWH power generation provided by City and Borough of Sitka.

AVERAGE DISCHARGE.--31 years (water years, 1916-25, 1985-2005), 313 ft<sup>3</sup>/s, 147.6in/yr, 226,800 acre-ft/yr. Mean discharge for water years 1985-2005 adjusted for change in contents of Green Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 93,780 acre-ft, September 22-23, 1994, elevation, 400.5 ft; minimum contents observed, 23,170 acre-ft, June 1, 1996, elevation, 307.6 ft. Maximum daily discharge, 5,020 ft<sup>3</sup>/s, September 22-23, 1994; no flow released, February 5-8, 1987, November 27-29, 1988 and June 19, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 91,680 acre-ft, September 18, elevation 398.5 ft; minimum contents observed, 65,250 acre-ft, April 9, elevation 370.0 ft. Maximum daily discharge (not adjusted for storage) 347 ft<sup>3</sup>/s, April 19; minimum daily discharge, 77.2 ft<sup>3</sup>/s, September 8.

MONTH END RESERVOIR ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, IN ACRE FEET  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Sep 30	396.4	89,470	
Oct 31	395.8	88,840	-630
Nov 30	395.6	88,630	-210
Dec 31	394.4	87,430	-1200
Jan 31	389.3	82,590	-4840
Feb 28	382.5	76,250	-6340
Mar 31	376.6	70,940	-5310
Apr 30	376.3	70,670	-270
May 31	390.0	83,250	+12580
Jun 30	394.8	87,810	+4560
Jul 31	395.0	88,000	+190
Aug 31	396.5	89,580	+1580
Sep 30	396.9	90,000	+420
CAL YR 2004			+12260
WTR YR 2005			+530

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
MEAN VALUES

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	116	280	396	386
NOV	158	372	530	526
DEC	157	398	555	536
JAN	194	0	194	115
FEB	226	0	226	112
MAR	233	0	233	147
APR	215	0	215	210
MAY	147	0	147	352
JUN	170	0	170	247
JUL	220	117	337	340
AUG	219	65	284	310
SEP	131	608	739	746
CAL YR 2004		168	152	320
WTR YR 2005		182	153	336

## 15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU

LOCATION.--Lat 58°05'00", long 134°37'54", in NW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 4, T. 44 S., R. 66 E. (Juneau A-2 quad), Hydrologic Unit 19010204, on Admiralty Island, in Admiralty Island National Monument, Tongass National Forest, on right bank, 100 ft upstream from mine portal, 0.3 mi downstream from Big Sore Creek, 7.0 mi upstream from mouth at Hawk Inlet, and 19 mi southwest of Juneau.

DRAINAGE AREA.--8.62 mi<sup>2</sup>.

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

REVISED RECORD.--WRD AK-99-1, 1990-1994(M), 1996-1998(M).

GAGE.--Water-stage recorder. Datum of gage is 890.16 ft above sea level (levels by Greens Creek Mining Company). Prior to February 16, 1999, recording gage at site 30 ft upstream at datum 9.84 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Greens Creek Mining Company pumps water from gage pool for use in mill. Diversion flow is recorded on totalizing meters in gage house. Pump records are available from Greens Creek Mining Company.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	45	51	e26	18	53	11	72	70	50	44	54
2	46	47	117	e24	14	41	10	67	70	62	36	48
3	38	95	94	e22	12	29	10	66	61	69	37	40
4	55	64	56	e21	e11	34	11	65	70	74	42	33
5	95	39	39	e19	e10	25	11	66	67	60	54	34
6	91	31	32	18	e9.0	20	15	70	62	51	43	66
7	81	27	e28	18	e8.0	18	14	78	63	46	35	80
8	84	24	e25	16	e10	32	13	85	64	37	31	62
9	71	22	24	15	11	33	13	91	64	33	27	47
10	66	20	22	15	10	76	14	97	64	31	24	44
11	51	19	25	e14	9.7	53	14	101	59	30	22	41
12	55	21	29	e13	8.8	37	14	102	51	31	20	45
13	68	33	24	e12	e7.6	33	14	118	51	32	19	51
14	49	85	28	e12	e7.0	29	14	150	50	40	18	40
15	45	83	25	e11	7.6	25	13	118	50	47	18	35
16	36	55	109	e11	7.7	21	14	95	47	35	17	31
17	31	37	85	e11	8.2	19	16	89	52	52	16	47
18	26	31	117	12	7.9	17	17	85	58	53	24	98
19	24	32	85	11	7.2	e15	45	81	60	41	31	125
20	24	89	58	10	6.8	e13	46	82	52	34	28	98
21	22	89	42	13	6.5	e13	85	86	61	38	25	88
22	22	53	43	25	6.4	e13	67	82	49	33	31	75
23	20	40	107	19	7.8	12	67	79	46	29	26	99
24	20	34	116	15	8.1	12	97	78	44	27	23	110
25	20	31	71	13	8.5	11	108	73	39	28	62	93
26	18	29	52	14	10	12	110	82	37	33	70	78
27	27	28	42	13	16	13	111	86	42	62	44	78
28	35	30	36	12	37	12	110	72	52	63	33	109
29	73	29	e33	12	---	11	100	74	53	46	37	131
30	35	32	e30	22	---	11	84	74	41	41	52	101
31	27	---	e28	23	---	13	---	68	---	51	55	---
TOTAL	1407	1294	1673	492	291.8	756	1268	2632	1649	1359	1044	2081
MEAN	45.4	43.1	54.0	15.9	10.4	24.4	42.3	84.9	55.0	43.8	33.7	69.4
MAX	95	95	117	26	37	76	111	150	70	74	70	131
MIN	18	19	22	10	6.4	11	10	65	37	27	16	31
AC-FT	2790	2570	3320	976	579	1500	2520	5220	3270	2700	2070	4130
CFSM	5.27	5.00	6.26	1.84	1.21	2.83	4.90	9.85	6.38	5.09	3.91	8.05
IN.	6.07	5.58	7.22	2.12	1.26	3.26	5.47	11.36	7.12	5.86	4.51	8.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)#

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	59.4	30.9	27.2	16.1	13.4	12.1	29.3	79.0	84.1	51.9	38.7	61.5					
MAX	97.9	49.5	65.7	26.5	36.9	27.2	49.6	107	147	90.5	69.7	95.0					
(WY)	1999	1994	1990	2003	1992	1992	1994	1992	1992	2000	1991	1991					
MIN	34.7	14.6	8.27	5.50	3.43	2.82	3.56	51.7	50.7	20.8	16.6	33.3					
(WY)	1994	1991	1997	1997	1999	2002	2002	2003	2003	2003	2004	1995					

e Estimated

## 15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005#	
ANNUAL TOTAL	15245.3		15946.8			
ANNUAL MEAN	41.7		43.7		42.2	
HIGHEST ANNUAL MEAN					60.1 1992	
LOWEST ANNUAL MEAN					31.8 1998	
HIGHEST DAILY MEAN	117	Dec 2	150	May 14	465	Oct 20 1998
LOWEST DAILY MEAN	7.5	Mar 23	6.4	Feb 22	a1.2	Apr 3 2002
ANNUAL SEVEN-DAY MINIMUM	8.6	Mar 18	7.2	Feb 16	1.2	Apr 8 2002
MAXIMUM PEAK FLOW			220	Nov 3	b710	Oct 20 1998
MAXIMUM PEAK STAGE			2.90	Nov 3	c14.79	Oct 20 1998
INSTANTANEOUS LOW FLOW			d6.3	Feb 21	e0.98	Mar 20 2002
ANNUAL RUNOFF (AC-FT)	30240		31630		30550	
ANNUAL RUNOFF (CFSM)	4.83		5.07		4.89	
ANNUAL RUNOFF (INCHES)	65.79		68.82		66.46	
10 PERCENT EXCEEDS	94		87		91	
50 PERCENT EXCEEDS	28		36		31	
90 PERCENT EXCEEDS	11		12		6.9	

# See Period of Record; partial year was used in monthly statistics.

a Apr. 3-4, 8, and 11-14

b From rating curve extended above 140 ft<sup>3</sup>/s on basis of slope area measurement of peak flow.

c Same site, different datum

d Feb. 21-23

e Mar. 20, and Apr. 7-11

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE

LOCATION.--Lat 57°39'46", long 135°11'06", in NW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 34, T. 48 S., R. 63 E. (Sitka C-4 quad), Greater Sitka Borough, Hydrologic Unit 19010203, on Chichagof Island, in Tongass National Forest, on right bank 0.6 mi upstream from Hook Creek, 3.5 mi upstream from mouth at Kadashan Bay, and 9 mi south of Tenakee.

DRAINAGE AREA.--10.2 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1968 to September 1978, October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above sea level, from topographic map. Prior to October 24, 1969, at site 90 ft downstream at different datum; October 24, 1969 to September 30, 1978, at site 75 ft downstream at datum 1.89 ft higher.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)
Oct. 12	2000	588	3.79	Dec. 16	1345	1120	4.73
Oct. 29	0230	892	4.37	Dec. 23	1215	874	4.34
Nov. 03	1330	*1730	*5.52	Mar. 10	1015	583	3.78
Nov. 20	2145	715	4.05	Sept. 18	1715	839	4.28
Dec. 02	1330	939	4.45	Sept. 28	2345	857	4.31

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	293	113	e17	85	107	43	43	20	13	20	66
2	41	180	414	e15	46	109	37	43	18	15	15	35
3	32	707	253	e18	33	72	35	45	16	64	27	25
4	51	162	85	20	27	144	44	49	23	71	46	20
5	181	89	58	22	22	86	67	51	20	44	58	41
6	114	61	47	20	e20	61	78	45	15	43	44	162
7	106	49	36	17	e19	68	51	46	14	34	27	181
8	130	41	32	e13	99	189	41	51	12	25	20	100
9	75	35	34	e12	72	154	55	50	12	21	17	45
10	67	30	39	13	97	332	58	62	12	18	15	32
11	47	27	124	e12	58	165	49	60	11	15	14	27
12	167	25	131	e10	34	105	49	59	11	13	12	24
13	122	90	62	e8.0	27	75	45	67	11	13	10	31
14	55	251	92	e9.0	25	66	39	109	25	19	9.6	23
15	44	185	98	e10	22	56	34	60	19	48	9.4	20
16	37	110	515	e10	36	48	34	44	14	26	9.3	18
17	29	64	265	e10	46	38	35	39	12	75	8.7	53
18	25	52	232	e9.0	34	32	38	32	11	74	34	386
19	22	116	199	e10	27	27	192	29	12	35	25	302
20	20	363	116	e10	25	24	122	31	12	24	23	119
21	21	178	62	e14	22	22	120	33	17	23	17	81
22	26	85	119	e25	28	24	78	28	17	26	77	63
23	24	78	504	e15	48	22	68	61	18	18	33	82
24	47	108	323	27	36	20	94	46	20	15	20	191
25	43	114	100	25	30	19	90	32	14	14	85	125
26	26	94	60	33	49	25	94	31	11	34	58	83
27	158	73	53	35	60	41	88	29	10	74	39	93
28	221	89	68	23	89	33	78	24	11	38	26	362
29	378	82	41	34	---	32	63	22	24	28	24	377
30	157	76	e28	131	---	34	47	22	18	22	78	158
31	114	---	e23	130	---	110	---	20	---	21	116	---
TOTAL	2630	3907	4326	757.0	1216	2340	1966	1363	460	1003	1017.0	3325
MEAN	84.8	130	140	24.4	43.4	75.5	65.5	44.0	15.3	32.4	32.8	111
MAX	378	707	515	131	99	332	192	109	25	75	116	386
MIN	20	25	23	8.0	19	19	34	20	10	13	8.7	18
AC-FT	5220	7750	8580	1500	2410	4640	3900	2700	912	1990	2020	6600
CFSM	8.32	12.8	13.7	2.39	4.26	7.40	6.42	4.31	1.50	3.17	3.22	10.9
IN.	9.59	14.25	15.78	2.76	4.43	8.53	7.17	4.97	1.68	3.66	3.71	12.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)#

MEAN	115	78.3	66.1	49.7	49.2	45.2	66.6	97.7	62.8	29.6	32.3	76.9
MAX	234	152	147	147	118	129	118	182	151	60.2	79.0	141
(WY)	1975	1975	2000	1985	1985	1994	1994	1972	1972	1970	1983	1981
MIN	50.6	17.7	8.05	6.15	5.95	9.21	22.7	38.3	15.3	6.41	5.73	17.5
(WY)	1970	1974	1978	1969	1969	1974	2002	2003	2005	1989	2004	1986

# See Period of Record; partial year was used in monthly statistics.  
e Estimated

## 15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1968 - 2005#	
ANNUAL TOTAL	26099.8		24310.0			
ANNUAL MEAN	71.3		66.6		64.0	
HIGHEST ANNUAL MEAN					80.8	
LOWEST ANNUAL MEAN					44.1	
HIGHEST DAILY MEAN	707		707		1010	
LOWEST DAILY MEAN	a4.0	Nov 3	8.0	Nov 3	b3.2	Oct 19 1998
ANNUAL SEVEN-DAY MINIMUM	4.3	Aug 24	9.4	Jan 13	4.2	Jul 28 1989
MAXIMUM PEAK FLOW			1730		c1970	
MAXIMUM PEAK STAGE			5.52		5.83	
INSTANTANEOUS LOW FLOW					3.2	
ANNUAL RUNOFF (AC-FT)	51770		48220		46380	
ANNUAL RUNOFF (CFSM)	6.99		6.53		6.28	
ANNUAL RUNOFF (INCHES)	95.19		88.66		85.27	
10 PERCENT EXCEEDS	163		136		138	
50 PERCENT EXCEEDS	45		39		42	
90 PERCENT EXCEEDS	6.6		14		12	

# See Period of Record; partial year was used in monthly statistics.

a Aug. 24 to Aug. 25

b Jul. 28 to Jul. 29, 1989

c From rating curve extended above 330 ft<sup>3</sup>/s on basis of area-velocity study at gage height 4.8 ft and shape of previous rating.

## 15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-72, 1974-77, 1981-1985, and 1987 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1967 to September 1978, December 1981 to December 1984, March 1987 to March 1988, and September 1988 to current year.

INSTRUMENTATION.--Digital water-temperature recorder, November 1967 to December 1984, set for 1-hour punch interval. Electronic water-temperature recorder, March 1987 to July 1996, set for 2-hour recording interval. Electronic water-temperature recorder with 15-minute recording interval since July 11, 1996.

REMARKS.--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 January 6. No variation was found in the temperature cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 16.5°C, July 15, 1993; minimum, 0.0°C, on many days during most winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 13.5°C, August 11-14; minimum, 0.0°C, on many days during winter.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking downstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JAN							
06...	1030	32.0	4.00	1.44	21	1.0	-5
06...	1031	32.0	10.0	1.44	21	1.0	-5
06...	1032	32.0	16.0	1.44	21	1.0	-5
06...	1033	32.0	22.0	1.44	21	1.0	-5
06...	1034	32.0	28.0	1.44	21	1.0	-5

## TEMPERATURE, WATER, DEGREE CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	4.0	3.5	3.5	4.0	4.0	4.0	0.0	0.0	0.0
2	---	---	---	3.5	3.0	3.0	4.0	3.5	4.0	0.0	0.0	0.0
3	---	---	---	3.5	3.0	3.5	4.0	2.5	3.5	1.5	0.0	0.5
4	---	---	---	4.0	3.5	3.5	3.0	2.5	3.0	1.5	1.0	1.5
5	---	---	---	3.5	3.0	3.0	3.0	2.0	2.5	1.5	1.0	1.5
6	---	---	---	3.0	3.0	3.0	2.0	2.0	2.0	1.0	0.5	1.0
7	---	---	---	3.0	3.0	3.0	2.0	1.0	1.5	0.5	0.0	0.0
8	---	---	---	3.0	2.0	2.5	1.5	1.0	1.0	0.5	0.0	0.0
9	---	---	---	2.5	2.0	2.5	1.5	1.0	1.5	0.5	0.0	0.0
10	---	---	---	2.0	1.5	2.0	2.0	1.5	1.5	1.0	0.0	0.5
11	---	---	---	2.0	1.5	2.0	2.0	1.0	1.5	0.0	0.0	0.0
12	---	---	---	2.5	2.0	2.5	2.0	1.0	1.5	0.0	0.0	0.0
13	8.5	8.0	8.0	2.5	1.5	2.0	2.0	1.5	2.0	0.0	0.0	0.0
14	8.0	7.0	7.5	3.0	2.0	2.5	2.0	1.5	2.0	0.0	0.0	0.0
15	7.5	6.5	7.0	3.5	3.0	3.5	2.5	2.0	2.0	0.0	0.0	0.0
16	6.5	5.0	6.0	3.5	3.0	3.5	3.0	2.0	2.5	0.0	0.0	0.0
17	5.0	4.5	4.5	3.5	3.0	3.0	3.5	3.0	3.0	0.0	0.0	0.0
18	4.5	3.5	4.0	3.5	3.0	3.5	3.5	1.5	3.5	0.0	0.0	0.0
19	3.5	3.0	3.5	4.0	3.0	3.5	2.5	1.5	2.0	0.0	0.0	0.0
20	4.0	3.5	3.5	4.5	4.0	4.0	2.5	2.5	2.5	0.0	0.0	0.0
21	4.0	3.0	3.5	4.0	3.5	4.0	2.5	2.0	2.5	0.0	0.0	0.0
22	3.5	3.0	3.0	4.0	3.5	3.5	3.0	2.5	2.5	0.0	0.0	0.0
23	3.0	2.0	2.5	4.0	2.5	3.5	3.5	2.5	3.0	0.5	0.0	0.0
24	3.5	3.0	3.0	3.0	2.5	2.5	3.5	2.5	3.0	1.0	0.5	0.5
25	4.0	3.0	3.5	3.0	2.5	2.5	2.5	1.5	2.0	1.0	1.0	1.0
26	3.5	2.5	3.0	3.0	2.5	2.5	1.5	1.0	1.5	1.0	0.5	1.0
27	4.5	3.5	4.0	3.5	3.0	3.0	1.5	0.5	1.0	1.0	0.5	0.5
28	5.0	4.0	4.5	3.5	3.0	3.5	1.5	1.0	1.0	1.0	0.5	1.0
29	5.0	4.5	4.5	3.5	3.5	3.5	1.0	0.0	0.5	1.0	1.0	1.0
30	4.5	3.5	4.0	4.0	3.5	3.5	0.0	0.0	0.0	1.0	0.0	0.5
31	4.0	3.5	3.5	---	---	---	0.0	0.0	0.0	1.0	0.0	0.5
MONTH	---	---	---	4.5	1.5	3.0	4.0	0.0	2.1	1.5	0.0	0.4

## 15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE—Continued

TEMPERATURE, WATER, DEGREE CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1.0	0.0	0.5	2.0	1.5	2.0	1.5	0.0	1.0	6.0	4.5	5.0
2	1.5	0.5	1.0	2.5	2.0	2.0	1.0	0.0	0.5	6.0	4.5	5.5
3	1.5	1.0	1.5	2.5	2.0	2.0	2.0	0.5	1.0	6.0	5.0	5.5
4	1.5	0.5	1.0	2.0	1.5	2.0	2.5	1.0	1.5	6.0	4.5	5.5
5	0.5	0.0	0.0	2.5	1.5	2.0	2.5	1.5	2.0	6.0	4.5	5.5
6	0.0	0.0	0.0	2.5	1.5	2.0	2.5	1.5	2.0	6.5	4.0	5.5
7	0.5	0.0	0.0	3.0	2.0	2.0	2.5	1.0	2.0	7.0	4.5	6.0
8	0.5	0.0	0.5	2.5	1.5	2.0	3.0	1.5	2.0	7.0	4.5	6.0
9	1.0	0.5	0.5	2.5	1.5	2.0	3.5	2.5	3.0	7.5	5.0	6.0
10	1.0	0.5	1.0	2.5	1.5	2.0	3.5	2.0	3.0	7.5	5.0	6.5
11	1.5	1.0	1.0	2.5	2.0	2.0	4.0	2.5	3.0	7.5	6.0	6.5
12	1.0	0.5	1.0	3.0	2.5	2.5	3.5	2.5	3.0	6.5	6.0	6.0
13	1.0	0.5	1.0	3.5	2.5	3.0	3.5	2.0	3.0	6.5	6.0	6.0
14	1.5	0.5	1.0	3.5	2.5	3.0	4.0	2.5	3.0	7.0	6.0	6.5
15	2.0	1.0	1.5	3.0	2.0	2.5	3.5	2.0	3.0	7.0	5.5	6.5
16	1.5	1.5	1.5	2.5	1.5	2.0	4.5	3.0	3.5	8.0	6.0	7.0
17	1.5	1.5	1.5	2.0	1.0	1.5	4.0	2.5	3.5	7.5	6.0	7.0
18	2.0	1.5	1.5	2.0	1.0	1.5	3.5	2.5	3.0	8.0	5.5	6.5
19	2.0	1.5	1.5	1.0	0.5	0.5	4.0	3.0	3.5	8.0	6.5	7.0
20	1.5	1.0	1.0	0.5	0.0	0.5	4.0	3.0	3.5	9.0	7.0	7.5
21	2.0	1.0	1.5	1.0	0.0	0.5	4.5	3.5	4.0	8.5	7.0	7.5
22	2.0	1.5	2.0	2.0	1.0	1.5	5.0	3.0	4.0	8.5	6.0	7.5
23	2.0	1.5	1.5	2.5	1.5	2.0	5.0	3.0	4.0	8.0	7.0	7.5
24	2.0	1.5	1.5	2.0	1.0	1.5	5.5	3.0	4.0	7.5	7.0	7.5
25	2.0	1.5	1.5	2.0	1.0	1.5	5.5	3.5	4.5	8.5	6.5	7.5
26	2.0	1.5	2.0	3.0	2.0	2.5	6.0	3.5	4.5	8.5	7.5	8.0
27	2.5	1.5	2.0	2.5	2.0	2.0	6.0	3.5	5.0	8.0	7.5	8.0
28	2.0	1.5	2.0	2.0	1.5	1.5	6.0	4.0	5.0	9.0	7.0	8.0
29	---	---	---	2.0	1.0	1.5	6.0	4.0	5.0	9.0	8.0	8.5
30	---	---	---	2.5	1.5	2.0	5.5	3.0	4.5	9.5	8.0	9.0
31	---	---	---	2.0	1.0	1.5	---	---	---	9.5	7.0	8.5
MONTH	2.5	0.0	1.2	3.5	0.0	1.8	6.0	0.0	3.1	9.5	4.0	6.8
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.0	8.0	9.0	11.5	11.0	11.5	11.5	10.0	10.5	10.5	10.0	10.0
2	10.0	7.5	9.0	11.5	10.5	11.0	12.0	10.5	11.0	10.5	9.5	10.0
3	10.0	7.5	9.0	11.0	10.5	11.0	11.5	10.5	11.0	10.5	9.5	10.0
4	9.0	8.0	8.5	11.5	10.5	11.0	11.0	10.5	11.0	10.0	9.0	9.5
5	10.0	8.0	9.0	11.0	10.5	11.0	11.5	11.0	11.0	10.0	9.0	9.5
6	10.5	8.0	9.0	11.5	10.5	11.0	12.0	11.0	11.5	11.0	10.0	10.5
7	11.0	8.0	9.5	11.0	10.5	11.0	12.0	10.5	11.5	11.0	10.5	10.5
8	11.0	9.0	10.0	12.0	9.5	10.5	12.5	10.5	11.5	10.5	9.5	10.0
9	11.0	9.0	10.0	11.5	10.5	11.0	13.0	10.5	12.0	9.5	8.5	9.0
10	12.0	9.5	10.5	11.5	11.0	11.0	13.0	11.0	12.0	9.5	9.0	9.5
11	10.5	9.5	10.0	11.5	10.5	11.0	13.5	11.0	12.5	10.0	9.5	9.5
12	10.0	9.0	9.5	11.5	11.0	11.5	13.5	11.5	12.5	10.0	9.5	9.5
13	11.0	9.0	10.0	11.5	10.5	11.0	13.5	11.5	12.5	10.5	9.5	10.0
14	10.0	9.5	10.0	11.5	10.5	11.0	13.5	12.0	13.0	10.0	9.0	9.5
15	10.0	9.0	9.5	11.5	11.0	11.0	13.0	12.5	12.5	10.0	9.0	9.5
16	10.5	8.5	9.5	11.5	10.0	11.0	13.0	12.0	12.5	9.5	9.0	9.0
17	12.0	8.5	10.5	12.0	11.0	11.5	13.0	11.5	12.5	10.0	9.0	9.5
18	13.0	9.5	11.5	11.5	11.0	11.0	13.0	12.0	12.5	10.0	9.5	10.0
19	11.5	10.5	11.0	11.5	10.5	11.0	13.0	12.0	12.5	9.5	9.0	9.0
20	11.0	10.0	10.5	11.5	10.0	10.5	12.5	11.5	12.0	9.0	8.5	9.0
21	10.0	9.5	9.5	11.5	10.5	11.0	12.0	11.5	12.0	9.0	8.5	8.5
22	10.0	9.0	9.5	12.0	10.5	11.5	12.5	11.5	12.0	9.0	8.0	8.5
23	9.5	9.0	9.5	12.5	11.0	11.5	12.0	11.0	11.5	9.5	8.5	9.0
24	10.5	9.5	10.0	12.0	11.0	11.5	11.5	11.0	11.0	10.0	9.5	10.0
25	11.0	9.0	10.0	11.5	11.0	11.5	12.0	11.0	11.5	9.5	8.5	9.0
26	12.0	9.5	10.5	12.0	11.0	11.5	11.5	11.0	11.0	8.5	7.0	7.5
27	12.0	10.0	11.0	12.5	11.5	12.0	11.0	10.5	11.0	7.5	7.0	7.0
28	11.5	11.0	11.0	12.0	11.0	11.5	11.0	9.5	10.0	9.0	7.5	8.5
29	11.5	11.0	11.0	11.5	11.0	11.0	10.5	10.0	10.0	8.5	8.0	8.5
30	12.0	11.0	11.5	11.5	10.5	11.0	11.0	10.5	10.5	8.0	7.5	8.0
31	---	---	---	11.0	10.5	11.0	10.5	10.0	10.5	---	---	---
MONTH	13.0	7.5	10.0	12.5	9.5	11.1	13.5	9.5	11.6	11.0	7.0	9.2



## 15106970 MIDDLE BASIN CREEK NEAR TENAKEE

LOCATION.--Lat 57°41'33", long 135°12'06", in NE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 21, T. 48 S., R. 63 E. (Sitka C-4 quad), Hydrologic Unit 19010203, in Tongass National Forest, on Chichagof Island, on left bank 0.3 mi upstream from confluence with Kadashan River, and about 7 mi south of Tenakee.

DRAINAGE AREA.--0.12 mi<sup>2</sup>

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to July 1987 (unpublished fragmentary records provided by the U.S. Forest Service). July 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 190 ft above sea level, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.46	2.8	1.1	1.2	0.98	0.88	e1.0	e0.67	e0.36	0.18	0.19	0.19
2	0.42	2.2	3.2	1.0	0.82	e0.90	e0.62	e0.65	e0.35	0.17	0.19	0.17
3	0.37	6.7	4.5	0.97	0.71	e1.2	e0.57	e0.66	e0.35	0.25	0.20	0.16
4	0.43	5.3	4.0	0.93	0.61	e1.2	e0.60	e0.68	e0.35	0.28	0.20	0.13
5	0.64	3.5	3.0	0.90	0.47	e1.4	e0.75	e0.71	e0.39	0.23	0.21	0.13
6	0.53	2.8	2.3	0.68	0.41	e1.0	e0.96	e0.70	e0.26	0.21	0.20	0.28
7	0.54	2.2	2.0	0.57	0.48	e0.90	e0.90	e0.67	0.24	0.20	0.19	0.37
8	0.73	1.9	1.7	0.57	0.81	e1.3	e0.69	e0.70	0.24	0.22	0.19	0.29
9	0.64	1.4	1.2	0.53	0.82	e1.9	e0.69	e0.73	0.23	0.22	0.19	0.23
10	0.60	1.0	1.1	0.59	0.98	e2.3	e0.79	e0.77	0.22	0.20	0.19	0.26
11	0.52	0.89	1.6	0.43	0.85	e3.0	e0.77	e0.84	0.20	0.18	0.19	0.27
12	1.0	0.84	1.6	0.34	0.70	e2.0	e0.71	e0.83	0.20	0.18	0.20	0.27
13	0.88	0.90	1.2	0.38	0.56	e1.7	e0.70	e0.85	0.20	0.16	0.20	0.26
14	0.73	1.6	1.2	0.39	0.48	e1.3	e0.64	e1.3	0.24	0.18	0.20	0.24
15	0.69	1.4	1.2	0.43	0.47	e1.1	e0.59	e1.1	0.20	0.20	0.18	0.23
16	0.60	1.3	3.9	0.47	0.52	e0.90	e0.55	e0.76	0.20	0.16	0.18	0.22
17	0.53	1.3	4.1	0.52	0.57	e0.80	e0.55	e0.64	0.22	0.21	0.16	0.25
18	0.47	1.1	5.0	0.47	0.50	e0.70	e0.58	e0.57	0.22	0.23	0.21	0.65
19	0.42	1.3	5.4	0.46	0.46	e0.60	e0.99	e0.51	0.20	0.20	0.19	0.89
20	0.40	2.8	3.6	0.45	0.42	e0.53	e1.8	e0.50	0.17	0.18	0.17	0.75
21	0.40	2.9	2.5	0.53	0.40	e0.46	e1.5	e0.52	0.16	0.18	0.15	0.66
22	0.40	2.7	2.4	0.71	0.44	e0.41	e1.3	e0.51	0.16	0.19	0.20	0.57
23	0.34	2.3	4.8	0.60	0.52	e0.41	e0.98	e0.60	0.17	0.19	0.14	0.54
24	0.40	2.2	8.3	0.56	0.51	e0.38	e1.0	e0.78	0.18	0.17	0.13	0.59
25	0.35	2.0	5.8	0.53	0.46	e0.36	e1.2	e0.61	0.18	0.17	0.21	0.52
26	0.31	1.8	3.7	0.64	0.57	e0.38	e1.2	e0.52	0.19	0.22	0.19	0.46
27	0.42	1.4	3.0	0.66	0.61	e0.50	e1.2	e0.50	0.19	0.26	0.18	0.59
28	0.61	1.3	3.1	0.59	0.74	e0.59	e1.1	e0.46	0.19	0.22	0.14	1.3
29	2.0	1.2	2.5	0.61	---	e0.53	e0.95	e0.41	0.20	0.20	0.14	3.3
30	2.0	1.1	2.0	0.94	---	e0.53	e0.78	e0.40	0.19	0.20	0.18	2.8
31	1.7	---	1.6	1.1	---	e0.79	---	e0.38	---	0.21	0.19	---
TOTAL	20.53	62.13	92.6	19.75	16.87	30.95	26.66	20.53	6.85	6.25	5.68	17.57
MEAN	0.66	2.07	2.99	0.64	0.60	1.00	0.89	0.66	0.23	0.20	0.18	0.59
MAX	2.0	6.7	8.3	1.2	0.98	3.0	1.8	1.3	0.39	0.28	0.21	3.3
MIN	0.31	0.84	1.1	0.34	0.40	0.36	0.55	0.38	0.16	0.16	0.13	0.13
MED	0.53	1.7	2.5	0.57	0.54	0.88	0.79	0.66	0.20	0.20	0.19	0.28
AC-FT	41	123	184	39	33	61	53	41	14	12	11	35
CFSM	5.52	17.3	24.9	5.31	5.02	8.32	7.41	5.52	1.90	1.68	1.53	4.88
IN.	6.36	19.26	28.71	6.12	5.23	9.59	8.26	6.36	2.12	1.94	1.76	5.45

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)#

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
MEAN	1.36	1.38	1.66	0.67	0.57	0.54	0.46	0.70	0.62	0.31	0.24	0.77
MAX	2.98	2.65	3.75	0.97	0.93	1.00	0.89	1.10	1.31	0.65	0.40	1.34
(WY)	2000	2000	2000	2003	2004	2005	2005	2004	2002	1999	2002	2000
MIN	0.66	0.83	0.45	0.47	0.30	0.26	0.17	0.42	0.23	0.18	0.10	0.26
(WY)	2005	2001	2002	2000	2000	2002	2002	2003	2005	2004	2004	2004

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

## 15106970 MIDDLE BASIN CREEK NEAR TENAKEE—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005#	
ANNUAL TOTAL	328.49		326.37			
ANNUAL MEAN	0.90		0.89		0.77	
HIGHEST ANNUAL MEAN					1.20 2000	
LOWEST ANNUAL MEAN					0.61 2003	
HIGHEST DAILY MEAN	8.3	Dec 24	8.3	Dec 24	31	Dec 27 1999
LOWEST DAILY MEAN	0.04	Sep 9	a0.13	Aug 24	b0.04	Sep 9 2004
ANNUAL SEVEN-DAY MINIMUM	0.06	Sep 5	0.16	Aug 23	0.06	Sep 5 2004
MAXIMUM PEAK FLOW			15	Nov 3	c66	Dec 27 1999
MAXIMUM PEAK STAGE			4.63	Nov 3	5.16	Dec 27 1999
INSTANTANEOUS LOW FLOW			d0.11	Aug 24	b0.03	Sep 9 2004
ANNUAL RUNOFF (AC-FT)	652		647		554	
ANNUAL RUNOFF (CFSM)	7.48		7.45		6.38	
ANNUAL RUNOFF (INCHES)	101.83		101.17		86.63	
10 PERCENT EXCEEDS	2.0		2.0		1.3	
50 PERCENT EXCEEDS	0.62		0.57		0.51	
90 PERCENT EXCEEDS	0.11		0.19		0.19	

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

a Aug. 24, Sept. 4-5

b Sept. 9, 10, 18 and 19, 2004

c From rating curve extended above 3.0 ft<sup>3</sup>/s

d Aug. 24, 28, 29, Sept. 4-5

15106970 MIDDLE BASIN CREEK NEAR TENAKEE—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1981 to July 1987 (unpublished fragmentary records provided by the U.S. Forest Service),  
Water years 2000 to current year.

PERIOD OF DAILY RECORD.--  
WATER TEMPERATURE: July 2000 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder with 15-minute recording interval since July 9, 2000.

REMARKS.--No record March 2 to June 6 due to recorder malfunction. No record June 10, 13, 30, July 9-12, 15-18, 21-  
27, August 15, and September 13 due to faulty probe. Records represent water temperature at the sensor within  
0.5°C. Temperature at the sensor was compared with stream average by cross section on January 6. 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.--  
WATER TEMPERATURE: Maximum, 11.0°C, August 16, 2004; minimum, 0.0°C, on many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--  
WATER TEMPERATURE: Maximum recorded, 10.0°C, August 10-14; minimum, 0.0°C, on January 17 and 21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Temper- ature, air, deg C (00020)
JAN							
06...	1150	8.00	1.00	3.85	.69	2.5	-.5
06...	1151	8.00	3.00	3.85	.69	2.5	-.5
06...	1152	8.00	5.00	3.85	.69	2.5	-.5
06...	1153	8.00	7.00	3.85	.69	2.5	-.5

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.5	7.5	7.5	5.0	4.5	5.0	5.0	4.5	5.0	1.5	1.0	1.5
2	7.5	7.5	7.5	5.0	4.5	4.5	5.0	5.0	5.0	2.0	1.0	1.5
3	7.5	7.0	7.5	5.0	4.5	5.0	5.0	4.0	4.5	2.5	2.0	2.0
4	7.5	7.5	7.5	5.0	4.0	4.5	4.0	3.5	4.0	2.5	2.5	2.5
5	8.0	7.5	7.5	4.5	4.0	4.0	3.5	3.0	3.5	3.0	2.5	2.5
6	7.5	7.5	7.5	4.0	4.0	4.0	3.0	3.0	3.0	2.5	2.0	2.5
7	7.5	7.5	7.5	4.0	3.5	4.0	3.0	2.0	2.5	2.0	1.5	2.0
8	7.5	7.0	7.5	4.0	3.0	3.5	3.0	2.0	2.5	2.5	1.5	2.0
9	7.5	7.0	7.0	4.0	3.5	3.5	3.0	2.5	3.0	2.0	1.5	1.5
10	7.0	6.5	7.0	3.5	3.0	3.0	3.0	3.0	3.0	2.5	1.5	2.0
11	7.0	6.0	6.5	3.5	3.0	3.0	3.5	3.0	3.0	1.5	0.5	1.0
12	7.5	6.0	6.5	3.5	3.0	3.5	3.5	3.0	3.5	0.5	0.5	0.5
13	7.5	7.0	7.5	4.0	3.5	4.0	3.5	3.0	3.5	1.0	0.5	1.0
14	7.0	7.0	7.0	4.5	4.0	4.5	3.5	3.5	3.5	1.5	1.0	1.0
15	7.0	6.5	7.0	5.0	4.5	4.5	4.0	3.5	3.5	1.5	1.0	1.5
16	6.5	5.5	6.0	4.5	4.0	4.5	4.5	4.0	4.0	1.5	1.0	1.0
17	6.0	5.5	5.5	4.5	4.0	4.0	4.5	4.0	4.5	1.5	0.0	1.5
18	5.5	5.0	5.0	4.5	4.0	4.0	4.5	3.5	4.5	1.5	1.0	1.5
19	5.0	4.5	5.0	4.5	4.5	4.5	4.0	3.5	4.0	2.0	1.5	1.5
20	5.0	4.5	5.0	5.0	4.5	5.0	4.0	3.5	4.0	2.0	1.0	2.0
21	5.0	4.5	5.0	5.0	4.5	4.5	3.5	3.5	3.5	2.0	0.0	1.5
22	5.0	4.5	4.5	4.5	4.5	4.5	4.0	3.5	4.0	2.0	1.5	2.0
23	4.5	4.0	4.5	4.5	3.5	4.0	4.5	4.0	4.5	2.0	2.0	2.0
24	5.0	4.5	4.5	4.0	3.5	4.0	4.5	4.0	4.5	2.0	2.0	2.0
25	5.0	4.5	4.5	4.0	4.0	4.0	4.0	3.0	3.5	2.5	2.0	2.0
26	5.0	4.0	4.5	4.5	4.0	4.0	3.0	2.5	3.0	2.0	2.0	2.0
27	5.5	5.0	5.0	4.5	4.0	4.5	3.0	2.5	3.0	2.5	2.0	2.0
28	5.5	5.0	5.5	4.5	4.5	4.5	3.0	2.5	3.0	2.5	2.0	2.0
29	5.5	5.0	5.5	4.5	4.5	4.5	2.5	1.5	2.0	2.5	2.0	2.5
30	5.0	4.5	5.0	5.0	4.5	4.5	1.5	1.0	1.5	2.5	2.0	2.0
31	5.0	4.5	4.5	---	---	---	1.5	1.0	1.5	2.5	2.0	2.5
MONTH	8.0	4.0	6.1	5.0	3.0	4.2	5.0	1.0	3.5	3.0	0.0	1.8



15129000 ALSEK RIVER NEAR YAKUTAT  
(International gaging station)

LOCATION.--Lat 59°23'42", long 138°04'55", in NW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 19, T. 29 S., R. 44 E. (Yakutat B-1 quad), Hydrologic Unit 19010401, in Glacier Bay National Park, on right bank across from terminus of Walker Glacier, 33 mi upstream from Dry Bay, and 55 mi southeast of Yakutat.

DRAINAGE AREA.--10,820 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1991 to current year.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46900	11800	8430	e8600	e5700	e4900	e5000	24500	62400	107000	67800	49600
2	56200	11400	10500	e7900	e5600	e4900	e4900	23200	62100	106000	65900	43700
3	51200	12500	11300	e7300	e5400	e5000	e4900	22300	61500	104000	73600	39900
4	51700	13100	10200	e7400	e5200	e5000	e4900	22200	63900	104000	82200	38500
5	53600	12000	8050	e7600	e5100	e5100	e5000	22400	72500	98100	80200	43500
6	45700	11300	7100	e7300	e5000	e5100	e5200	22600	75300	97500	79800	53900
7	37100	10400	6910	e7000	e4900	e5200	e5300	22800	71400	89700	82500	57400
8	31600	9440	6420	e6700	e5100	e5300	e5100	23500	69100	90700	85600	54700
9	27600	9500	6180	e6500	e5100	e5400	e5100	24600	69400	96600	93400	49800
10	25600	9470	6370	e6300	e5100	e5400	e5200	26600	71700	99500	97700	46000
11	23500	9320	6470	e6200	e5000	e5500	e5500	29400	71100	100000	103000	50300
12	20900	9260	8610	e6000	e4900	e5500	e5800	33400	72300	102000	111000	51000
13	24300	9410	9330	e5900	e4800	e5600	e5900	36300	71500	104000	118000	58400
14	24700	9380	8630	e5800	e4800	e5700	e6200	40500	76900	99000	126000	56400
15	24100	9270	7990	e5700	e4900	e5700	e6500	48800	85100	90000	125000	47800
16	22500	9070	8550	e5700	e5000	e5800	e6700	51800	88000	90000	115000	42900
17	20700	8780	10600	e5800	e5000	e5800	e7000	49800	97500	95800	104000	43400
18	19000	8390	10600	e5800	e5000	e5700	e7200	47700	110000	95300	102000	43300
19	17200	8500	10200	e5700	e5000	e5600	e7420	47700	120000	84800	99900	42700
20	16000	8720	9740	e5600	e4900	e5600	e7620	48800	127000	80100	86500	38100
21	14800	8770	9020	e5600	e4800	e5500	e9290	51700	120000	75600	74500	32700
22	13800	8470	9390	e5600	e4900	e5300	e10500	52100	108000	81300	69500	28400
23	12700	8140	18300	e5500	e4900	e5200	e11700	51200	98700	87300	67200	27200
24	12000	8180	25700	e5500	e4900	e5200	e13200	51400	93400	90400	81800	38100
25	11500	8140	19700	e5500	e5000	e5100	e15000	51400	91800	88900	126000	45300
26	10900	7770	16700	e5500	e5000	e5100	e16500	52200	91700	83600	125000	39300
27	11200	7560	e15000	e5500	e4900	e5300	e18000	54100	92200	87600	108000	34400
28	11700	7750	e12300	e5600	e4900	e5300	e20700	56500	95800	92200	98200	36400
29	13400	8620	e11000	e5600	---	e5100	24400	58700	98200	89300	80000	34300
30	13200	8370	e10000	e5600	---	e5100	25300	60400	102000	81200	65900	29900
31	12500	---	e9300	e5800	---	e5000	---	61200	---	74800	57400	---
TOTAL	777800	282780	328590	192100	140800	165000	281030	1269800	2590500	2866300	2852600	1297300
MEAN	25090	9426	10600	6197	5029	5323	9368	40960	86350	92460	92020	43240
MAX	56200	13100	25700	8600	5700	5800	25300	61200	127000	107000	126000	58400
MIN	10900	7560	6180	5500	4800	4900	4900	22200	61500	74800	57400	27200
AC-FT	1543000	560900	651800	381000	279300	327300	557400	2519000	5138000	5685000	5658000	2573000
CFSM	2.32	0.87	0.98	0.57	0.46	0.49	0.87	3.79	7.98	8.55	8.50	4.00
IN.	2.67	0.97	1.13	0.66	0.48	0.57	0.97	4.37	8.91	9.85	9.81	4.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)#

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	24530	9934	7272	5199	4272	4119	6712	27350	70170	87770	78150	47970			
MAX	40300	19160	12640	9118	6625	6619	10870	40960	91330	104400	99370	76330			
(WY)	1995	2003	2003	2001	1993	1992	1992	2005	2004	2004	1994	1995			
MIN	12040	5828	3229	3045	2707	3033	4379	16770	53490	73510	59750	29040			
(WY)	1997	1997	1997	1995	1995	1995	2002	2001	1996	1996	1996	1992			

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1991 - 2005#

ANNUAL TOTAL	12919450	13044600													
ANNUAL MEAN	35300	35740								31200					
HIGHEST ANNUAL MEAN										35850					1993
LOWEST ANNUAL MEAN										23920					1996
HIGHEST DAILY MEAN	133000	Jun 26	127000	Jun 20	175000	Aug 13	2002								
LOWEST DAILY MEAN	2900	Jan 31	a4800	Feb 13	2280	Mar 13	1999								
ANNUAL SEVEN-DAY MINIMUM	2910	Jan 30	4910	Feb 11	2310	Mar 8	1999								
MAXIMUM PEAK FLOW			136000	Aug 25	b178000	Aug 13	2002								
MAXIMUM PEAK STAGE			84.48	Aug 25	89.52	Aug 13	2002								
ANNUAL RUNOFF (AC-FT)	25630000	25870000	22600000												
ANNUAL RUNOFF (CFSM)	3.26	3.30	2.88												
ANNUAL RUNOFF (INCHES)	44.42	44.85	39.18												
10 PERCENT EXCEEDS	101000	95800	84500												
50 PERCENT EXCEEDS	12600	15000	13100												
90 PERCENT EXCEEDS	3500	5100	3550												

# See Period of Record; partial year was used in monthly statistics

a Feb. 13, 14 and 21

b From rating extended above 100,000 cfs

e Estimated

15129500 SITUK RIVER NEAR YAKUTAT

LOCATION.--Lat 59°35'00", long 139°29'31", in SE<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec. 9, T. 27 S., R. 35 E. (Yakutat C-4 quad.), Yakutat Borough, Hydrologic Unit 19010401, in Tongass National Forest, on left bank 20 ft downstream from Alsek Road bridge, 3.5 mi downstream from Situk Lake, 8.8 mi northeast of Yakutat, and 10 mi upstream from mouth.

DRAINAGE AREA.--36 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level, by U.S. Forest Service.

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 1,000 ft<sup>3</sup>/s and maximum(\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)
Oct. 04	1630	2210	70.65	Feb. 28	0030	1240	68.84
Dec. 03	0030	1040	68.35	Aug. 25	0600	1860	70.06
Dec. 23	1015	*3340	*72.33				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	434	575	325	330	930	253	213	166	86	119	397
2	1560	407	792	295	290	859	227	202	155	86	150	346
3	1740	570	884	275	266	814	210	192	146	84	225	304
4	1990	521	673	301	240	700	197	183	140	83	373	268
5	1710	458	531	374	e216	664	192	177	144	83	398	428
6	1170	400	431	351	e202	551	196	170	137	81	346	578
7	849	343	363	317	194	507	184	164	132	83	292	543
8	641	302	309	288	456	544	171	159	128	80	249	497
9	509	277	274	264	490	571	171	156	123	76	215	418
10	488	287	256	244	741	800	178	154	121	74	187	388
11	445	265	254	e225	553	681	165	152	119	73	164	360
12	389	246	629	e211	446	868	156	157	116	73	145	333
13	464	265	588	e200	370	733	150	164	113	74	130	332
14	466	258	480	e188	317	597	148	169	110	72	117	310
15	440	242	446	178	416	495	144	177	109	69	107	281
16	381	249	544	168	470	418	137	174	107	67	98	267
17	332	240	578	162	399	364	132	170	104	107	93	295
18	290	231	695	155	347	322	150	162	103	121	110	308
19	259	283	606	153	302	291	266	155	108	111	111	446
20	237	451	544	156	272	266	284	155	118	104	117	404
21	220	402	450	160	257	241	347	157	117	100	143	342
22	204	338	864	261	313	243	325	158	113	94	214	312
23	190	296	2910	287	431	250	295	152	107	85	203	320
24	209	302	2640	241	370	236	271	150	100	80	801	552
25	192	324	1740	221	410	222	255	149	96	80	1560	542
26	182	340	1070	203	527	212	246	175	92	80	1040	456
27	268	309	782	191	1010	256	238	201	89	91	713	435
28	372	451	644	201	1140	249	232	206	89	121	523	802
29	678	665	480	195	---	235	229	196	87	143	418	742
30	533	509	420	223	---	244	223	190	86	124	512	636
31	508	---	366	337	---	274	---	179	---	118	493	---
TOTAL	19166	10665	22818	7350	11775	14637	6372	5318	3475	2803	10366	12642
MEAN	618	356	736	237	421	472	212	172	116	90.4	334	421
MAX	1990	665	2910	374	1140	930	347	213	166	143	1560	802
MIN	182	231	254	153	194	212	132	149	86	67	93	267
AC-FT	38020	21150	45260	14580	23360	29030	12640	10550	6890	5560	20560	25080
CFSM	17.2	9.88	20.4	6.59	11.7	13.1	5.90	4.77	3.22	2.51	9.29	11.7
IN.	19.80	11.02	23.58	7.59	12.17	15.12	6.58	5.50	3.59	2.90	10.71	13.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)#

MEAN	531	348	402	282	269	245	234	262	219	179	278	478
MAX	878	598	739	620	545	516	370	418	345	292	612	838
(WY)	2000	1993	2000	2001	2004	1992	1998	1991	1991	1991	2002	1991
MIN	249	173	142	131	81.2	54.2	73.6	160	116	77.7	105	261
(WY)	2004	1999	1991	1996	1999	1989	2002	1996	2005	1993	1994	2003

# See Period of Record; partial year was used in monthly statistics  
e Estimated

## 15129500 SITUK RIVER NEAR YAKUTAT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005#	
ANNUAL TOTAL	120827		127387			
ANNUAL MEAN	330		349		311	
HIGHEST ANNUAL MEAN					382 1992	
LOWEST ANNUAL MEAN					230 1996	
HIGHEST DAILY MEAN	2910	Dec 23	2910	Dec 23	2910	Dec 23 2004
LOWEST DAILY MEAN	a69	Aug 25	67	Jul 16	b47	Mar 5 1989
ANNUAL SEVEN-DAY MINIMUM	74	Aug 20	72	Jul 10	48	Mar 3 1989
MAXIMUM PEAK FLOW			3340	Dec 23	3840	Oct 18 1999
MAXIMUM PEAK STAGE			72.33	Dec 23	72.99	Oct 18 1999
INSTANTANEOUS LOW FLOW			65	Jul 16	c47	Mar 5 1989
ANNUAL RUNOFF (AC-FT)	239700		252700		225000	
ANNUAL RUNOFF (CFSM)	9.17		9.69		8.63	
ANNUAL RUNOFF (INCHES)	124.85		131.63		117.24	
10 PERCENT EXCEEDS	631		664		591	
50 PERCENT EXCEEDS	230		257		234	
90 PERCENT EXCEEDS	104		107		111	

# See Period of Record; partial year was used in monthly statistics

a Aug. 24-26

b Mar. 5-7 1989

c Mar. 5-7, 1989 and Apr. 15 and 17, 2002

15129500 SITUK RIVER NEAR YAKUTAT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to 1973 and 1988 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1970 to September 1973 (fragmentary) and May 1988 to current year.

INSTRUMENTATION.--Water-temperature recorder October 1970 to September 1973, at a site 500 ft downstream. Electronic water-temperature recorder since May 1988, set for 2-hour recording interval. Recording interval changed to 15-minutes on March 6, 1996.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on June 15. No variation was found within the cross section. The variation found between mean stream temperature and sensor temperature was less than 0.2°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 20.5°C, June 24 and 25, 2004; minimum, 0.0°C, on many days during winters periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 18.5°C, July 5 and 8 and August 11-12; minimum, 0.0°C on several days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking downstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUN								
15...	1424	58.0	10.0	65.28	108	10	12.8	12.0
15...	1426	58.0	20.0	65.28	108	10	12.8	12.0
15...	1428	58.0	30.0	65.28	108	10	12.8	12.0
15...	1430	58.0	40.0	65.28	108	10	12.8	12.0
15...	1432	58.0	50.0	65.28	108	10	12.8	12.0

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.5	9.0	9.5	5.0	4.5	4.5	4.0	3.5	3.5	0.5	0.0	0.5
2	9.5	9.0	9.5	4.5	3.5	4.0	3.5	3.0	3.0	1.5	0.5	1.0
3	9.0	9.0	9.0	4.5	3.0	4.0	3.5	2.0	3.0	2.0	1.5	2.0
4	9.0	9.0	9.0	4.0	3.0	3.5	2.5	2.5	2.5	2.0	2.0	2.0
5	9.0	8.5	9.0	3.5	2.5	3.0	2.5	2.5	2.5	2.0	1.0	1.5
6	9.0	8.0	8.5	4.0	3.0	3.5	2.5	2.5	2.5	1.0	1.0	1.0
7	9.0	8.0	8.5	3.5	2.5	3.0	2.5	1.5	2.5	1.0	0.5	1.0
8	8.5	7.5	8.0	3.0	2.0	2.5	1.5	1.0	1.5	1.0	0.5	0.5
9	8.5	7.5	8.0	3.5	2.5	3.0	2.0	1.0	1.5	1.0	0.5	0.5
10	8.0	7.5	8.0	4.0	3.5	3.5	2.5	2.0	2.0	1.5	0.5	1.0
11	8.0	7.0	7.5	3.5	3.0	3.5	2.5	1.5	2.0	0.5	0.0	0.0
12	8.0	7.0	7.5	4.0	3.5	3.5	2.5	1.0	2.0	0.0	0.0	0.0
13	8.5	8.0	8.0	4.0	3.5	3.5	2.5	1.5	2.0	0.0	0.0	0.0
14	8.0	8.0	8.0	3.5	3.0	3.5	2.5	2.0	2.0	0.5	0.0	0.0
15	8.0	7.0	7.5	3.5	3.0	3.5	2.5	1.5	2.0	1.5	0.5	1.0
16	7.5	6.5	7.0	4.0	3.5	3.5	2.5	2.0	2.5	1.0	0.5	0.5
17	6.5	6.0	6.0	3.5	3.0	3.5	3.0	2.5	2.5	1.5	1.0	1.0
18	6.0	5.0	5.5	3.5	2.0	3.0	3.0	2.5	3.0	1.5	1.0	1.0
19	6.0	5.0	5.5	3.5	2.0	3.0	2.5	2.5	2.5	1.5	1.0	1.5
20	6.0	5.0	5.5	3.0	2.5	3.0	2.5	2.0	2.0	2.5	1.5	2.0
21	6.0	5.5	5.5	3.0	3.0	3.0	2.5	2.0	2.0	2.5	2.0	2.0
22	5.5	4.5	5.0	3.5	3.0	3.0	3.5	2.5	2.5	2.5	1.5	2.0
23	5.5	4.0	4.5	3.5	3.0	3.5	3.5	3.0	3.5	1.5	1.0	1.5
24	5.5	5.0	5.0	3.5	3.0	3.5	3.0	2.0	2.5	2.0	1.0	1.5
25	5.0	4.0	4.5	3.0	2.5	3.0	2.0	1.5	1.5	2.0	1.0	1.5
26	5.5	4.5	5.0	3.0	2.5	3.0	2.0	1.5	1.5	1.5	0.5	1.0
27	5.5	5.0	5.0	3.5	3.0	3.5	2.0	0.5	1.5	2.0	1.5	2.0
28	5.5	5.0	5.0	3.5	2.5	3.5	2.0	0.5	1.5	2.5	2.0	2.0
29	5.5	4.5	5.0	3.0	2.5	3.0	0.5	0.0	0.5	2.5	2.0	2.0
30	5.0	4.5	5.0	3.5	3.0	3.5	0.5	0.0	0.5	2.5	2.0	2.5
31	5.0	4.0	4.5	---	---	---	0.5	0.5	0.5	2.0	1.5	2.0
MONTH	9.5	4.0	6.7	5.0	2.0	3.4	4.0	0.0	2.1	2.5	0.0	1.2



## SOUTHEAST ALASKA

## 15129500 SITUK RIVER NEAR YAKUTAT—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	1.5	1.5	4.0	1.5	2.5	11.0	7.0	9.0
2	1.0	0.0	0.5	2.0	1.5	1.5	4.5	1.5	3.0	11.5	6.5	8.5
3	1.0	0.5	1.0	2.0	1.5	1.5	5.0	1.0	3.0	11.5	7.5	9.5
4	1.0	0.0	0.5	2.0	1.5	1.5	4.0	1.5	3.0	10.0	7.0	8.5
5	0.0	0.0	0.0	2.5	1.5	2.0	6.0	2.5	4.0	12.0	7.5	9.5
6	0.5	0.0	0.0	2.5	1.5	2.0	5.0	3.5	4.0	12.5	7.0	9.5
7	1.0	0.5	0.5	3.0	2.0	2.0	5.5	2.0	3.5	13.5	7.0	10.0
8	1.0	0.5	1.0	2.5	2.0	2.5	4.5	2.0	3.5	13.5	7.0	10.5
9	1.5	1.0	1.0	3.0	2.0	2.0	4.5	3.0	4.0	14.5	8.0	11.0
10	1.0	0.5	1.0	2.5	2.0	2.5	5.5	3.0	4.0	15.0	9.0	12.0
11	1.5	0.5	1.0	2.5	2.0	2.0	5.0	2.0	3.5	14.0	9.5	12.0
12	1.0	0.5	0.5	2.5	2.0	2.0	5.5	3.5	4.5	11.5	9.5	10.5
13	1.0	0.0	0.5	3.0	2.0	2.5	6.5	3.5	5.0	11.5	10.0	10.5
14	1.5	1.0	1.5	3.0	2.0	2.5	6.5	4.0	5.0	12.5	10.0	11.0
15	1.5	1.0	1.5	3.0	1.5	2.0	7.0	2.5	4.5	13.5	9.5	11.5
16	1.5	1.0	1.0	3.0	1.5	2.0	7.0	2.5	5.0	12.0	9.0	10.5
17	2.0	1.0	1.5	3.5	1.5	2.0	7.0	2.5	5.0	13.0	9.5	11.0
18	2.0	1.0	1.5	3.5	1.5	2.0	5.5	4.0	4.5	15.0	8.5	11.5
19	2.0	1.0	1.5	3.5	1.0	2.0	5.5	3.5	4.5	14.0	9.5	11.5
20	2.5	1.5	2.0	3.0	1.0	2.0	7.0	4.0	5.5	12.5	10.5	11.5
21	2.0	1.5	2.0	2.5	1.0	1.5	5.5	5.0	5.0	12.0	10.5	11.0
22	2.0	1.0	2.0	2.0	0.0	0.5	7.5	4.5	5.5	15.5	9.0	12.0
23	2.0	1.0	1.5	4.0	1.5	3.0	9.0	4.5	6.5	14.0	10.0	12.0
24	2.0	1.5	1.5	4.5	2.0	3.0	10.0	5.0	7.0	12.0	10.5	11.0
25	2.0	1.5	1.5	4.5	2.0	3.0	10.5	5.0	7.5	14.0	9.5	11.5
26	2.0	1.0	1.5	4.5	2.5	3.5	11.0	7.0	8.5	12.5	10.5	11.0
27	1.5	1.0	1.0	3.5	2.5	3.0	12.0	7.5	9.5	11.0	10.0	10.5
28	1.5	1.0	1.0	3.0	1.5	2.5	12.0	8.0	9.5	13.0	9.5	11.0
29	---	---	---	3.0	2.0	2.5	12.0	7.5	9.5	13.5	10.5	12.0
30	---	---	---	3.0	1.5	2.0	12.0	7.5	9.5	12.0	11.0	11.5
31	---	---	---	3.0	2.0	2.5	---	---	---	14.5	10.0	12.0
MONTH	2.5	0.0	1.1	4.5	0.0	2.2	12.0	1.0	5.3	15.5	6.5	10.8
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.0	11.0	12.5	14.5	13.5	14.0	14.0	12.0	13.0	14.0	11.5	12.5
2	15.5	10.0	12.5	14.5	12.5	13.5	15.5	12.5	14.0	14.0	11.5	12.5
3	16.0	10.0	13.0	16.0	12.5	14.5	13.5	12.5	12.5	14.0	11.0	12.5
4	13.5	10.5	12.0	15.0	13.0	14.0	13.0	12.5	12.5	13.0	11.5	12.5
5	14.0	10.0	11.5	18.5	12.0	15.0	14.0	12.5	13.0	12.0	11.0	11.5
6	16.5	9.5	13.0	16.5	13.5	14.0	15.5	13.0	14.0	12.0	11.0	11.5
7	15.0	11.0	13.0	15.0	12.5	14.0	16.5	13.0	14.5	12.0	11.5	11.5
8	14.5	11.0	13.0	18.5	12.5	15.5	17.0	13.5	15.0	13.0	11.0	12.0
9	16.0	11.0	13.5	18.0	12.5	15.5	18.0	13.0	15.0	13.0	11.0	12.0
10	14.0	11.5	12.5	17.0	14.0	15.0	18.0	13.5	15.5	12.5	12.0	12.0
11	14.5	11.0	12.5	15.5	13.0	14.0	18.5	13.5	16.0	12.5	11.5	12.0
12	14.0	11.5	13.0	14.5	13.5	14.0	18.5	14.5	16.0	12.0	11.5	12.0
13	16.5	11.0	13.5	14.5	12.5	13.5	18.0	13.5	15.5	12.5	11.0	11.5
14	15.0	11.5	13.5	16.0	12.5	14.0	17.0	13.5	15.5	12.5	10.0	11.0
15	13.5	12.0	12.5	18.0	12.0	15.0	15.5	14.0	14.5	12.5	10.0	11.0
16	17.5	12.0	14.5	16.0	13.5	14.5	16.0	13.0	14.5	11.5	11.0	11.0
17	18.0	11.5	15.0	13.5	12.5	13.0	15.0	13.0	14.0	11.5	10.5	11.0
18	17.0	13.0	15.0	14.5	12.5	13.5	14.0	12.5	13.0	11.0	10.0	10.5
19	15.5	13.0	14.0	16.0	13.0	14.5	14.0	12.5	13.5	10.5	10.0	10.0
20	15.0	12.0	13.5	15.0	12.5	14.0	13.5	12.0	13.0	11.5	10.0	10.5
21	15.0	11.5	13.0	15.0	12.5	14.0	13.0	12.0	12.5	11.5	9.5	10.5
22	14.0	12.0	13.0	17.0	12.0	14.5	15.0	12.0	13.0	11.0	10.0	10.5
23	16.5	12.0	14.0	15.0	12.0	13.5	14.0	12.5	13.0	11.0	10.0	10.5
24	18.0	11.5	14.5	14.5	12.5	13.5	13.0	12.5	13.0	11.5	10.5	11.0
25	18.0	12.0	15.0	14.0	12.5	13.5	14.5	13.0	13.5	11.5	10.0	10.5
26	18.0	12.0	15.0	15.5	12.5	14.0	14.0	13.5	14.0	11.0	10.0	10.5
27	17.5	13.5	15.0	15.0	12.5	14.0	15.5	13.0	14.0	10.0	9.0	9.5
28	16.0	13.5	14.5	15.0	12.5	13.5	15.5	12.5	14.0	9.5	9.0	9.0
29	15.0	13.5	14.0	14.5	12.0	13.0	14.0	13.0	13.5	9.5	9.0	9.5
30	15.5	13.0	14.5	14.0	12.0	13.0	13.0	11.5	12.0	10.0	9.5	9.5
31	---	---	---	13.5	12.0	12.5	13.5	11.5	12.5	---	---	---
MONTH	18.0	9.5	13.5	18.5	12.0	14.0	18.5	11.5	13.9	14.0	9.0	11.1

## 15129510 OLD SITUK RIVER NEAR YAKUTAT

LOCATION.--Lat 59°34'14", long 139°26'18", in NW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec. 23, T. 27 S., R. 35 E. (Yakutat C-4 quad.), Yakutat Borough, Hydrologic Unit 19010401, in Tongass National Forest, on right bank 100 ft downstream from Forest Hwy. 10, 10.5 mi northeast of Yakutat.

DRAINAGE AREA.--4.78 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--June 2003 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 77 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except for Oct. 1-2, July 24-28, and July 31-Sept. 30 which are poor.

REVISIONS.--The maximum peak discharge for the water year 2004 has been revised to 133 ft<sup>3</sup>/s, Feb. 11, 2004, gage height 15.14 ft. Revised daily discharge, in cubic feet per second, for the period December 22 to 24, 2003, February 8 to 16, and February 20 to 24, 2004 are given below. These figures supersede those published in reports for 2004.

## Daily Discharges

Dec. 22...99	Dec. 23...82	Dec. 24...70	Feb. 8...67	Feb. 9...93	Feb. 10...89	Feb. 11...122	
Feb. 12...98	Feb. 13...82	Feb. 14...74	Feb. 15...66	Feb. 16...61	Feb. 20...64	Feb. 21...81	
Feb. 22...73	Feb. 23...65	Feb. 24...62					
MONTH	TOTAL	MEAN	MAX	MIN	AC-FT	CFSM	IN
Dec. 2003	1319	42.5	99	25	2620	8.90	10.27
Feb. 2004	1772	61.1	122	25	3510	12.8	13.79
Wtr year 2004	11584.5	31.7	122	9.1	22980	6.62	90.16

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	63	79	70	41	97	47	30	19	12	20	65
2	119	58	100	68	37	96	45	30	18	12	17	61
3	142	73	104	68	33	93	43	30	19	12	23	54
4	201	65	83	71	31	89	40	28	18	12	29	50
5	179	59	75	72	31	86	41	27	18	12	35	69
6	135	55	70	61	30	78	39	28	18	12	31	82
7	115	52	67	57	32	80	38	28	18	11	30	81
8	102	50	62	54	51	85	36	26	17	12	28	73
9	90	48	60	53	51	82	37	26	18	11	24	63
10	88	50	58	54	62	104	37	26	17	11	25	59
11	79	48	57	49	53	90	35	24	16	9.9	24	53
12	77	48	83	46	46	101	34	24	16	9.6	23	51
13	83	50	75	44	42	89	33	24	16	9.0	22	49
14	77	49	63	43	40	83	32	25	16	9.3	22	45
15	72	48	66	45	49	77	32	24	15	9.2	21	42
16	67	46	80	45	49	72	31	23	16	8.5	20	52
17	63	44	79	44	46	67	29	22	15	12	19	52
18	59	43	95	43	42	63	31	22	15	11	25	49
19	57	47	84	42	40	61	42	22	15	10	22	54
20	55	62	75	41	40	60	43	21	14	9.8	19	49
21	54	61	69	42	40	57	48	20	13	9.9	19	46
22	52	55	118	49	47	58	45	20	13	9.5	23	46
23	50	56	339	48	51	56	44	18	14	9.2	22	49
24	57	58	208	42	50	53	43	17	13	9.2	69	63
25	48	57	137	40	51	51	41	17	13	10	99	58
26	47	55	117	38	60	51	39	21	13	10	63	52
27	59	53	116	40	89	53	38	22	13	12	53	56
28	66	66	103	38	102	51	37	22	13	13	47	93
29	82	82	88	37	---	48	35	21	12	17	47	97
30	66	70	79	41	---	48	32	20	12	19	77	89
31	64	---	75	45	---	50	---	19	---	21	70	---
TOTAL	2605	1671	2964	1530	1336	2229	1147	727	463	355.1	1068	1802
MEAN	84.0	55.7	95.6	49.4	47.7	71.9	38.2	23.5	15.4	11.5	34.5	60.1
MAX	201	82	339	72	102	104	48	30	19	21	99	97
MIN	47	43	57	37	30	48	29	17	12	8.5	17	42
AC-FT	5170	3310	5880	3030	2650	4420	2280	1440	918	704	2120	3570
CFSM	17.6	11.7	20.0	10.3	9.98	15.0	8.00	4.91	3.23	2.40	7.21	12.6
IN.	20.27	13.00	23.07	11.91	10.40	17.35	8.93	5.66	3.60	2.76	8.31	14.02

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)#

MEAN	59.0	43.8	69.1	39.3	54.5	52.8	43.3	29.3	16.7	13.8	24.0	37.4
MAX	84.0	55.7	95.6	49.4	61.1	71.9	48.3	35.2	18.0	17.5	34.5	60.1
(WY)	2005	2005	2005	2005	2004	2005	2004	2004	2004	2003	2005	2005
MIN	34.1	32.0	42.5	29.2	47.7	33.6	38.2	23.5	15.4	11.5	12.4	22.7
(WY)	2004	2004	2004	2004	2005	2004	2005	2005	2005	2005	2004	2004

# See Period of Record; partial year was used in monthly statistics

## 15129510 OLD SITUK RIVER NEAR YAKUTAT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005#	
ANNUAL TOTAL	15490.5		17897.1			
ANNUAL MEAN	42.3		49.0		40.3	
HIGHEST ANNUAL MEAN					49.0	
LOWEST ANNUAL MEAN					31.7	
HIGHEST DAILY MEAN	339		339		339	
LOWEST DAILY MEAN	9.6	Dec 23	8.5	Dec 23	8.5	Dec 23
ANNUAL SEVEN-DAY MINIMUM	9.8	Jul 23	9.5	Jul 16	9.5	Jul 16
MAXIMUM PEAK FLOW			a455		a455	
MAXIMUM PEAK STAGE			16.01		16.01	
INSTANTANEOUS LOW FLOW			b7.9		b7.9	
ANNUAL RUNOFF (AC-FT)	30730		35500		29220	
ANNUAL RUNOFF (CFSM)	8.85		10.3		8.44	
ANNUAL RUNOFF (INCHES)	120.55		139.28		114.64	
10 PERCENT EXCEEDS	79		85		73	
50 PERCENT EXCEEDS	34		46		34	
90 PERCENT EXCEEDS	12		13		12	

# See Period of Record; partial year was used in monthly statistics

a From rating curve extended above 124 ft<sup>3</sup>/s

b July 13, 15-16, and 23-25.

15129510 OLD SITUK RIVER NEAR YAKUTAT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- June 2003 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 2003 to current year.

INSTRUMENTATION.--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 stream average by cross section on June 15, 2005. No variation was found within the cross section and no variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 16.0°C, June 19, 2004; minimum, 0.0°C on many days during most winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 14.5°C, July 8, 9, and 15; minimum, 0.0°C, March 22.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)					
June												
15...	1345	27.0	4.0	14.44	14.9	8.0	12.0					
15...	1346	27.0	8.0	14.44	14.9	8.0	12.0					
15...	1347	27.0	12.0	14.44	14.9	8.0	12.0					
15...	1348	27.0	16.0	14.44	14.9	8.0	12.0					
15...	1349	27.0	20.0	14.44	14.9	8.0	12.0					
15...	1350	27.0	24.0	14.44	14.9	8.0	12.0					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.5	7.0	7.0	4.5	4.0	4.0	5.0	4.5	4.5	2.0	1.5	1.5
2	7.5	7.0	7.5	4.0	2.5	3.5	4.5	3.5	4.0	3.5	2.0	2.5
3	7.5	7.0	7.0	4.5	2.5	4.0	4.0	2.5	3.5	4.0	3.5	3.5
4	7.5	7.0	7.5	4.0	2.5	3.5	3.5	3.0	3.0	4.0	4.0	4.0
5	7.5	7.0	7.0	3.5	2.0	2.5	3.5	3.0	3.0	4.0	3.0	3.5
6	7.0	6.0	6.5	3.5	2.5	3.0	3.5	3.0	3.5	3.0	2.0	2.5
7	7.0	6.0	6.5	3.5	2.5	3.0	3.5	2.5	3.0	2.5	2.0	2.0
8	7.0	6.0	6.5	3.0	1.5	2.5	2.5	2.0	2.0	2.0	2.0	2.0
9	6.5	5.5	6.0	4.0	2.5	3.5	3.5	2.0	2.5	2.5	2.0	2.0
10	6.5	6.0	6.5	4.0	3.5	4.0	3.5	2.5	3.0	3.0	2.0	2.5
11	6.5	5.0	6.0	4.0	3.5	4.0	3.5	2.0	2.5	2.0	0.5	1.0
12	7.0	5.5	6.0	4.5	4.0	4.0	4.0	3.5	3.5	1.5	0.5	1.0
13	7.0	6.5	7.0	4.5	4.0	4.5	3.5	3.0	3.5	1.5	1.0	1.5
14	7.0	6.5	6.5	4.0	3.5	4.0	4.0	3.0	3.5	2.5	1.0	1.5
15	6.5	5.0	6.0	4.0	3.5	3.5	4.0	3.0	3.5	3.0	2.0	2.5
16	5.5	5.0	5.0	4.5	4.0	4.0	4.5	4.0	4.0	2.5	2.0	2.5
17	5.0	4.0	4.5	4.0	3.5	4.0	4.5	4.0	4.5	3.0	2.5	2.5
18	4.5	3.5	4.0	4.0	1.5	3.5	4.5	4.0	4.5	2.5	2.0	2.0
19	4.5	3.5	4.0	4.0	2.0	3.5	4.0	4.0	4.0	2.5	1.5	2.0
20	5.0	4.0	4.5	4.0	4.0	4.0	4.0	3.0	3.5	3.5	2.5	3.0
21	5.0	4.5	4.5	4.0	3.5	4.0	4.0	3.0	3.5	4.0	3.0	3.5
22	4.5	3.5	4.0	4.0	3.5	4.0	4.5	4.0	4.0	4.0	4.0	4.0
23	4.5	3.0	3.5	4.0	4.0	4.0	4.5	4.0	4.5	4.0	3.0	3.5
24	5.0	4.0	4.5	4.0	3.5	4.0	4.5	3.5	4.0	3.5	2.5	3.0
25	4.0	3.5	3.5	4.0	3.5	3.5	3.5	2.5	3.0	3.5	2.5	3.5
26	4.5	3.5	4.0	4.0	3.5	3.5	3.5	2.5	3.0	3.0	2.0	2.5
27	5.0	4.5	5.0	4.5	4.0	4.0	3.5	1.0	2.0	3.5	2.5	3.0
28	5.0	4.5	5.0	4.5	4.0	4.5	3.5	2.5	3.0	3.5	2.5	3.0
29	5.0	4.5	5.0	4.0	4.0	4.0	3.0	2.0	2.5	4.0	3.5	3.5
30	4.5	3.5	4.0	4.5	4.0	4.5	2.0	1.5	1.5	4.0	3.5	4.0
31	4.0	3.0	3.5	---	---	---	2.0	1.5	2.0	4.0	3.5	4.0
MONTH	7.5	3.0	5.4	4.5	1.5	3.8	5.0	1.0	3.3	4.0	0.5	2.7

## 15129510 OLD SITUK RIVER NEAR YAKUTAT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	2.5	3.0	3.5	3.0	3.5	5.0	2.5	4.0	10.5	4.5	7.0
2	2.5	1.0	1.5	4.0	3.5	3.5	6.0	2.0	4.0	10.5	4.5	7.0
3	2.0	1.5	2.0	4.0	3.0	3.5	6.0	2.5	4.0	9.5	5.5	7.0
4	2.0	1.5	2.0	4.0	3.0	3.5	5.0	2.5	4.0	7.5	5.5	6.5
5	1.5	1.0	1.0	4.0	3.5	3.5	7.0	3.5	5.0	10.5	5.0	7.0
6	2.5	1.0	1.5	4.0	3.5	3.5	5.5	4.0	5.0	11.0	5.0	7.5
7	2.5	1.0	2.0	4.5	3.5	4.0	6.5	3.0	4.5	11.5	5.0	8.0
8	2.5	1.0	2.0	4.5	3.5	4.0	5.5	3.0	4.0	12.5	5.0	8.0
9	3.0	2.0	2.5	4.5	4.0	4.0	5.0	4.0	4.5	12.0	5.5	8.5
10	3.0	2.5	2.5	4.0	3.5	4.0	6.0	4.0	5.0	12.5	6.0	8.5
11	3.5	2.5	3.0	4.5	3.5	3.5	5.5	3.0	4.5	11.5	6.0	8.5
12	2.5	2.0	2.5	4.0	3.5	3.5	6.0	4.0	5.0	8.5	7.0	7.5
13	2.5	1.5	2.0	5.0	3.5	4.0	7.0	4.0	5.5	8.5	6.5	7.5
14	3.5	2.5	3.0	4.5	3.5	4.0	7.0	4.5	5.5	9.0	6.5	7.5
15	3.5	3.0	3.5	4.5	2.5	3.5	8.0	3.0	5.0	11.0	6.5	8.0
16	3.5	3.0	3.0	4.5	2.5	3.5	8.5	3.0	5.0	9.0	5.5	7.5
17	4.0	3.0	3.5	4.5	2.5	3.5	8.5	3.0	5.5	9.5	6.0	7.5
18	3.5	3.0	3.0	5.0	2.5	3.5	5.5	4.5	4.5	12.5	5.0	8.0
19	3.5	2.5	3.0	4.5	2.0	3.5	5.5	4.0	5.0	10.0	6.0	8.0
20	4.5	3.5	3.5	4.0	2.5	3.0	7.5	5.0	6.0	9.0	6.5	7.5
21	4.0	3.0	3.5	3.5	1.5	2.5	6.0	5.0	5.5	9.0	6.5	7.5
22	3.5	3.0	3.5	3.0	0.0	1.5	8.0	5.0	6.0	12.5	5.0	8.0
23	4.0	3.0	3.5	5.5	2.0	4.0	9.0	4.5	6.5	11.0	6.5	8.5
24	4.0	3.0	3.5	6.0	3.0	4.5	10.0	4.5	7.0	8.5	7.0	7.5
25	3.5	3.0	3.5	5.5	3.0	4.0	10.5	5.0	7.5	10.5	5.5	8.0
26	3.5	3.5	3.5	6.0	3.5	4.5	10.0	6.0	7.5	8.5	7.0	7.5
27	3.5	3.0	3.5	5.0	4.0	4.5	10.5	5.5	7.5	7.5	6.5	7.0
28	3.5	3.0	3.5	4.0	2.5	3.5	11.0	6.0	8.0	9.0	6.0	7.5
29	---	---	---	4.5	3.0	3.5	11.0	5.5	7.5	10.0	6.5	8.0
30	---	---	---	3.5	2.5	3.0	11.5	5.0	7.5	8.5	7.0	7.5
31	---	---	---	4.5	3.0	3.5	---	---	---	10.5	6.0	8.0
MONTH	4.5	1.0	2.8	6.0	0.0	3.6	11.5	2.0	5.5	12.5	4.5	7.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.0	6.5	8.5	9.0	8.0	8.5	8.5	6.5	7.0	7.0	5.0	6.0
2	12.5	6.0	8.5	9.5	7.5	8.5	9.0	6.0	7.5	8.0	5.5	6.5
3	12.5	6.5	9.0	11.0	7.5	9.5	8.5	6.5	7.5	8.5	5.5	6.5
4	9.5	6.5	8.0	10.0	8.5	9.0	6.5	6.0	6.0	8.0	6.0	7.0
5	10.5	6.5	8.0	14.0	7.5	10.0	6.0	5.5	6.0	7.5	6.5	7.0
6	13.0	6.0	9.0	11.0	8.5	9.5	7.0	5.5	6.0	7.0	5.5	6.5
7	11.0	7.0	9.0	11.0	8.0	9.0	8.0	5.0	6.5	7.0	6.0	6.5
8	10.5	6.5	8.5	14.5	8.0	10.5	9.0	5.5	7.0	7.0	5.5	6.5
9	12.0	7.0	9.0	14.5	9.0	11.0	8.5	5.5	7.0	6.5	5.0	6.0
10	9.5	7.5	8.5	11.5	9.0	10.5	9.0	6.0	7.5	7.0	6.0	6.0
11	10.0	6.5	8.0	11.0	8.5	9.5	9.0	5.5	7.5	6.5	5.5	6.0
12	9.5	7.0	8.0	10.0	9.0	9.5	9.0	6.5	7.5	6.0	6.0	6.0
13	12.5	6.5	9.0	10.0	8.0	9.0	9.5	6.0	7.5	6.5	5.0	6.0
14	10.0	7.5	9.0	11.5	8.0	10.0	9.0	6.5	7.5	6.5	4.5	6.0
15	9.0	7.0	8.0	14.5	8.0	10.5	8.0	7.0	7.0	6.5	5.0	6.0
16	13.5	7.0	9.5	11.5	9.5	10.5	8.5	6.5	7.0	7.0	6.0	6.5
17	14.0	7.5	10.5	10.0	9.0	9.5	7.5	6.5	7.0	7.5	6.5	7.0
18	12.0	8.5	10.5	10.0	8.0	9.0	7.5	6.5	7.0	6.5	6.0	6.5
19	10.5	8.5	9.0	11.5	8.0	9.5	7.5	6.5	7.0	6.5	6.0	6.0
20	10.5	7.0	8.5	9.5	8.0	9.0	7.5	6.0	6.5	6.5	5.5	6.0
21	10.5	7.0	8.5	10.0	7.5	9.0	7.0	6.0	6.5	6.0	5.5	5.5
22	8.5	7.5	8.0	13.0	7.5	9.5	7.0	6.0	6.5	6.0	5.5	6.0
23	12.0	7.0	9.0	11.0	8.5	9.5	7.0	6.0	6.5	6.5	6.0	6.0
24	13.5	7.0	10.0	---	---	---	7.0	6.0	6.5	6.5	6.0	6.0
25	13.5	8.0	10.5	---	---	---	6.5	5.5	6.0	6.0	5.5	5.5
26	14.0	8.0	10.5	---	---	---	6.5	5.5	6.0	6.0	5.5	5.5
27	12.0	9.0	10.5	---	---	---	8.0	5.5	6.5	5.5	5.5	5.5
28	10.5	8.5	9.0	---	---	---	8.0	5.0	6.5	6.0	5.5	5.5
29	9.5	8.0	9.0	8.5	7.0	7.5	7.0	6.0	6.5	5.5	5.5	5.5
30	10.0	8.0	9.0	8.5	6.5	7.0	6.5	6.0	6.5	5.5	5.5	5.5
31	---	---	---	7.5	6.5	7.0	7.0	6.0	6.0	---	---	---
MONTH	14.0	6.0	9.0	---	---	---	9.5	5.0	6.8	8.5	4.5	6.1

## 15129600 OPHIR CREEK NEAR YAKUTAT

LOCATION.--Lat 59°31'26", long 139°44'37", in SW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 1, T. 28 S., R. 33 E. (Yakutat C-5 SW quad), Hydrologic Unit 19010401, in Tongass National Forest, on right bank 0.8 mi upstream from Summit Lake and 2 mi south of Yakutat.

DRAINAGE AREA.-- 2.5 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 9.05 ft above sea level, determined by levels survey.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	31	29	e31	14	56	16	4.9	1.8	0.99	3.9	22
2	56	28	37	e29	12	52	14	4.5	1.7	0.96	3.2	19
3	73	34	42	e28	10	50	12	4.1	1.6	0.95	5.8	17
4	81	31	34	e28	8.8	48	11	3.9	1.6	1.1	16	15
5	76	27	30	e30	7.8	46	11	3.5	1.7	0.93	13	38
6	62	24	26	e24	7.1	40	10	3.1	1.5	0.92	9.0	42
7	53	23	24	e20	7.6	36	9.8	2.8	1.5	0.92	6.8	35
8	46	21	21	e18	24	35	9.1	2.8	1.4	0.89	5.7	30
9	38	20	19	e16	24	34	8.9	2.8	1.4	0.89	5.0	26
10	34	20	17	e15	28	40	9.9	2.7	1.4	0.88	4.5	25
11	28	18	16	e14	23	36	9.6	2.5	1.4	0.83	4.0	23
12	26	18	25	e12	20	42	8.7	2.4	1.4	0.83	3.7	21
13	30	20	26	e11	18	38	8.2	2.5	1.4	0.83	3.4	e20
14	29	20	23	e10	16	33	7.6	2.5	1.4	0.81	3.2	e19
15	30	19	23	e9.0	22	30	7.1	2.3	1.3	0.79	3.2	e17
16	26	20	30	8.8	24	27	6.5	2.0	1.3	0.77	3.0	e16
17	24	20	34	8.2	21	24	6.0	2.0	1.3	1.3	2.9	e18
18	22	20	41	7.7	19	23	7.1	2.0	1.2	1.2	3.6	e17
19	21	22	36	7.1	17	21	15	2.4	1.3	1.0	3.4	e17
20	19	32	31	6.6	16	20	15	1.9	1.3	0.99	3.2	e19
21	18	28	28	6.8	15	18	16	1.8	1.3	0.93	3.4	e18
22	17	25	47	13	18	18	14	1.7	1.1	0.91	4.7	e17
23	16	23	88	16	24	17	11	1.6	1.1	0.90	3.9	e16
24	19	22	77	13	22	16	9.9	1.5	1.1	0.90	71	e18
25	17	21	57	11	23	14	8.9	1.5	1.1	1.1	68	e23
26	17	21	e45	9.5	29	14	8.1	2.1	1.0	1.2	41	e21
27	24	19	e43	9.0	53	15	7.4	2.4	1.0	1.6	30	e19
28	34	22	e41	8.4	63	14	6.6	2.4	1.00	1.6	25	e21
29	46	31	e38	7.7	---	13	5.9	2.3	0.99	2.2	22	e45
30	37	27	e35	9.7	---	13	5.4	2.1	0.99	3.8	28	e53
31	33	---	e33	14	---	16	---	2.0	---	3.0	27	---
TOTAL	1097	707	1096	451.5	586.3	899	295.7	79.0	39.58	36.92	430.5	707
MEAN	35.4	23.6	35.4	14.6	20.9	29.0	9.86	2.55	1.32	1.19	13.9	23.6
MAX	81	34	88	31	63	56	16	4.9	1.8	3.8	71	53
MIN	16	18	16	6.6	7.1	13	5.4	1.5	0.99	0.77	2.9	15
AC-FT	2180	1400	2170	896	1160	1780	587	157	79	73	854	1400
CFSM	14.2	9.43	14.1	5.83	8.38	11.6	3.94	1.02	0.53	0.48	5.55	9.43
IN.	16.32	10.52	16.31	6.72	8.72	13.38	4.40	1.18	0.59	0.55	6.41	10.52

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
MEAN	30.3	24.2	23.9	18.9	17.4	16.6	14.8	12.1	6.06	3.91	8.88	18.0
MAX	60.7	43.8	49.1	42.7	36.1	38.3	28.3	34.4	19.7	9.67	19.4	30.8
(WY)	2000	2000	2000	2001	2004	1992	1998	1999	1999	1998	1998	1998
MIN	11.6	10.1	8.96	5.13	3.31	4.13	2.68	2.55	1.32	0.66	1.02	5.54
(WY)	2004	2004	1996	1993	1999	1999	2002	2005	2005	1993	2004	2004

## SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1992 - 2005
ANNUAL TOTAL	6500.41	6425.50	
ANNUAL MEAN	17.8	17.6	16.3
HIGHEST ANNUAL MEAN			23.3
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	88 Dec 23	88 Dec 23	e118 Dec 27 1999
LOWEST DAILY MEAN	0.19 Aug 25	0.77 Jul 16	0.19 Aug 25 2004
ANNUAL SEVEN-DAY MINIMUM	0.39 Aug 20	0.82 Jul 10	0.39 Aug 20 2004
MAXIMUM PEAK FLOW		98 Dec 23	a159 Oct 18 1999
MAXIMUM PEAK STAGE		12.06 Dec 23	12.55 Oct 18 1999
INSTANTANEOUS LOW FLOW		b0.73 Jul 15	c0.10 Aug 25 2004
ANNUAL RUNOFF (AC-FT)	12890	12740	11770
ANNUAL RUNOFF (CFSM)	7.10	7.04	6.50
ANNUAL RUNOFF (INCHES)	96.73	95.61	88.32
10 PERCENT EXCEEDS	35	38	35
50 PERCENT EXCEEDS	18	16	13
90 PERCENT EXCEEDS	1.1	1.3	2.9

- a May have been exceeded during period of gage malfunction from Dec. 25 to 28, 1999  
b July 15 and 16  
c Minimum recorded, Aug. 24 and 25, 2004, but may have been less during period water was below intake Jul. 28, Aug. 2, and Aug. 8 to Aug. 10, 1993  
e Estimated