

1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL

LOCATION.--Lat 56°14'26", long 130°52'49", in NW¹/₄ NW¹/₄ NE¹/₄ 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 mi²

WATER-DISCHARGE RECORDS

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.

REMARKS.-- Records good, except June 5 to August 26, 2003, which are poor.

EXTREMES FOR WATER YEAR 2003.--Maximum discharge 22,100 ft³/s, September 2, gage-height 29.48 ft; minimum discharge not determined, occurs during winter.

EXTREMES FOR WATER YEAR 2004.--Maximum discharge 34,800 ft³/s, October 26, gage-height 32.96 ft; minimum discharge not determined, occurs during winter..

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	5440	7590	9730	11400	8970
2	---	---	---	---	---	---	---	4540	6560	8880	11600	19100
3	---	---	---	---	---	---	---	3590	5960	9250	10300	13400
4	---	---	---	---	---	---	---	2910	5930	12300	9030	9700
5	---	---	---	---	---	---	---	2450	7020	11900	8200	9230
6	---	---	---	---	---	---	---	2300	10000	11000	7840	10700
7	---	---	---	---	---	---	---	2270	12200	10700	8790	11200
8	---	---	---	---	---	---	---	2520	11300	11000	9610	9860
9	---	---	---	---	---	---	---	3080	10500	10600	10300	7890
10	---	---	---	---	---	---	---	3740	10900	11600	8930	9560
11	---	---	---	---	---	---	---	4480	10800	12500	8100	13800
12	---	---	---	---	---	---	---	5330	10400	12800	8570	9600
13	---	---	---	---	---	---	---	5110	10300	13000	9860	11600
14	---	---	---	---	---	---	---	4000	9110	11900	9920	14300
15	---	---	---	---	---	---	---	3270	9130	10700	11300	10100
16	---	---	---	---	---	---	---	2790	7950	11200	13500	7990
17	---	---	---	---	---	---	---	2630	8330	12400	12400	6590
18	---	---	---	---	---	---	---	2920	10500	11600	12800	6880
19	---	---	---	---	---	---	---	3230	9260	11600	11000	8430
20	---	---	---	---	---	---	---	3390	7970	12400	9770	7090
21	---	---	---	---	---	---	---	3710	7760	12900	10400	9020
22	---	---	---	---	---	---	---	4500	7620	11900	7920	8980
23	---	---	---	---	---	---	---	5800	7640	10200	6580	6700
24	---	---	---	---	---	---	---	8590	7450	9910	6180	13000
25	---	---	---	---	---	---	---	8690	7270	11100	5930	15500
26	---	---	---	---	---	---	---	6930	8560	11600	6020	12000
27	---	---	---	---	---	---	---	6310	7810	11200	6000	10200
28	---	---	---	---	---	---	---	6390	7940	11100	6040	9770
29	---	---	---	---	---	---	---	7630	8560	11600	6490	10100
30	---	---	---	---	---	---	---	5200	7080	8720	11400	7950
31	---	---	---	---	---	---	---	7210	---	11400	8600	---
TOTAL	---	---	---	---	---	---	---	142830	261040	351370	281330	310450
MEAN	---	---	---	---	---	---	---	4607	8701	11330	9075	10350
MAX	---	---	---	---	---	---	---	8690	12200	13000	13500	19100
MIN	---	---	---	---	---	---	---	2270	5930	8880	5930	6590
AC-FT	---	---	---	---	---	---	---	283300	517800	696900	558000	615800
CFSM	---	---	---	---	---	---	---	6.18	11.7	15.2	12.2	13.9
IN.	---	---	---	---	---	---	---	7.13	13.03	17.54	14.05	15.50

1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

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	8270	5130	---	---	---	---	1550	6990	6930	10900	9290	7110
2	7560	4700	---	---	---	---	1480	7600	6610	11100	11000	6570
3	6950	4310	---	---	---	---	1820	7250	6380	10800	11000	7780
4	6850	3980	---	---	---	---	2110	7250	6940	10500	10300	10500
5	6170	3730	---	---	---	---	2000	6850	8940	10300	10800	7900
6	7130	3540	---	---	---	---	1790	5460	9770	11800	11900	6950
7	7780	3340	---	---	---	---	1720	5130	11200	11200	10700	6310
8	6540	3170	---	---	---	---	1900	5440	12300	9800	10200	5610
9	5750	3130	---	---	---	---	2020	5640	12200	10400	10100	5010
10	5460	3110	---	---	---	---	2360	5220	9450	11600	11100	4190
11	4900	3040	---	---	---	---	3840	5420	8340	10500	11200	4560
12	4370	4730	---	---	---	---	4940	5620	8090	9700	9920	4690
13	4050	10500	---	---	---	---	4580	6510	8940	9880	9890	5960
14	4000	7360	---	---	---	---	4370	7490	8440	10800	10800	7280
15	3790	4960	---	---	---	---	3950	7490	7690	11200	13200	6030
16	3520	4150	---	---	---	---	3210	7400	7460	12600	14100	4730
17	3590	3700	---	---	---	---	2860	7180	9020	11600	13600	4060
18	3700	---	---	---	---	---	2770	7500	10700	10700	13400	3790
19	4090	---	---	---	---	---	2540	8350	13000	10900	11800	3510
20	3990	---	---	---	---	---	2380	9940	13700	12100	11000	3700
21	3920	---	---	---	---	---	2540	10400	14200	12100	10200	16100
22	4410	---	---	---	---	---	2820	9010	14500	11600	10100	12800
23	4480	---	---	---	---	---	3140	8020	15200	11600	8320	13500
24	4130	---	---	---	---	---	3120	8220	15700	12000	7410	24000
25	18000	---	---	---	---	---	3300	9140	15000	11400	7270	13500
26	30000	---	---	---	---	---	5180	10000	14800	10100	7410	8120
27	15300	---	---	---	---	---	4810	9070	14600	9760	9310	9290
28	10700	---	---	---	---	---	4180	8040	12500	11600	10100	8430
29	7950	---	---	---	---	1580	4100	8030	12400	13400	8000	6250
30	6430	---	---	---	---	2180	5070	7480	11700	11500	7350	5510
31	5660	---	---	---	---	1820	---	7420	---	9910	6930	---
TOTAL	219440	---	---	---	---	---	92450	230560	326700	343350	317700	233740
MEAN	7079	---	---	---	---	---	3082	7437	10890	11080	10250	7791
MAX	30000	---	---	---	---	---	5180	10400	15700	13400	14100	24000
MIN	3520	---	---	---	---	---	1480	5130	6380	9700	6930	3510
AC-FT	435300	---	---	---	---	---	183400	457300	648000	681000	630200	463600
CFSM	9.50	---	---	---	---	---	4.14	9.98	14.6	14.9	13.8	10.5
IN.	10.96	---	---	---	---	---	4.62	11.51	16.31	17.14	15.86	11.67

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 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.--No record from November 5 - March 31, due to probe out of water. 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 March 31 and July 14. No variation was found in the temperature cross sections. No variation was found between mean stream temperature and sensor temperature. Records good while probe was submerged.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 11.0°C, July 9, 23-24, 2004; minimum recorded, 0.5°C December 22, January 14-15, 2004; 0.0°C likely during period of missing record in winter.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 11.0°C, July 9, 23-24; minimum recorded, 0.5°C December 22, January 14-15, 0.0°C likely during period of missing record in winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Loca- tion in X-sect. looking dwnstrm ft from bank (00009)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd std units (00400)	Temper- ature, water, deg C (00010)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)
MAR								
31...	1800	38.0	150	7.7	4.0	763	12.9	98
31...	1801	113	150	7.7	4.0	763	12.9	98
31...	1802	188	150	7.7	4.0	763	12.9	98
31...	1803	263	151	7.7	4.0	763	12.9	98
JUL								
14...	1817	25.0	72	7.9	9.0	755	11.3	99
14...	1818	85.0	72	7.8	9.0	755	11.1	97
14...	1819	145	71	7.7	9.0	755	11.1	97
14...	1820	205	72	7.7	9.0	755	11.1	97
14...	1821	270	72	7.7	9.0	755	11.1	97

Date	Time	Medium code	Sample type	Gage height, feet (00065)	Instan- taneous dis- charge, cfs (00061)	Sam- pling method, code (82398)	Stream width, feet (00004)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)
OCT													
09...	1600	9	9	23.76	5720	10	275	745	11.8	98	7.9	95	--
MAR													
31...	1730	9	9	21.64	1740	10	300	763	12.9	98	7.7	150	3.5
JUL													
14...	1800	9	9	25.65	11100	10	285	755	11.1	97	7.7	72	18.5
SEP													
23...	1330	9	9	26.14	11500	10	255	755	--	--	7.8	74	8.5

Date	Time	Hard- ness, water, mg/L as CaCO3 (00010)	Calcium water, recovery fltrd, mg/L (00915)	Calcium water unfltrd recovery -able, mg/L (00916)	Magnes- ium, water, recovery fltrd, mg/L (00925)	Magnes- ium, water, recovery -able, mg/L (00927)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
OCT													
09...	6.5	42	14.5	--	1.33	--	.78	1.47	30	36	.28	<.2	3.98
MAR													
31...	4.0	71	24.5	23.3	2.33	2.22	1.18	2.87	48	59	.78	<.2	5.94
JUL													
14...	9.0	32	11.4	13.4	.802	2.59	.72	.90	23	28	E.18	<.2	2.60
SEP													
23...	6.5	34	11.8	--	1.01	--	.79	1.01	26	32	.21	<.2	3.37

1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Strontium, water, unfltrd recover- able, ug/L (01082)	Thallium, water, fltrd, ug/L (01057)	Thallium, water, unfltrd ug/L (01059)	Vanadium, 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 concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	Sampler type, code (84164)
OCT 09...	--	--	--	--	--	--	--	24	371	3054
MAR 31...	122	<.04	<.2	.5	6.2	3	.27	3	14	3044
JUL 14...	69.2	<.04	<.2	.2	1.0	40	.09	209	6260	3054
SEP 23...	--	--	--	--	--	--	--	576	17900	3054

1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—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	7.0	5.5	6.5	3.0	2.0	2.5	---	---	---	---	---	---
2	7.0	5.5	6.5	3.0	2.5	2.5	---	---	---	---	---	---
3	7.0	5.5	6.0	2.5	2.0	2.0	---	---	---	---	---	---
4	7.0	5.5	6.0	2.0	1.5	1.5	---	---	---	---	---	---
5	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
6	6.5	6.0	6.0	---	---	---	---	---	---	---	---	---
7	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
8	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
9	6.5	6.0	6.0	---	---	---	---	---	---	---	---	---
10	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
11	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
12	6.5	5.0	5.5	---	---	---	---	---	---	---	---	---
13	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
14	6.5	5.5	6.0	---	---	---	---	---	---	---	---	---
15	5.5	4.5	5.0	---	---	---	---	---	---	---	---	---
16	5.5	5.0	5.0	---	---	---	---	---	---	---	---	---
17	6.0	5.5	5.5	---	---	---	---	---	---	---	---	---
18	6.0	5.5	6.0	---	---	---	---	---	---	---	---	---
19	6.0	5.5	6.0	---	---	---	---	---	---	---	---	---
20	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
21	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
22	6.0	5.5	5.5	---	---	---	---	---	---	---	---	---
23	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
24	5.5	5.0	5.0	---	---	---	---	---	---	---	---	---
25	5.5	5.0	5.0	---	---	---	---	---	---	---	---	---
26	5.5	5.0	5.5	---	---	---	---	---	---	---	---	---
27	5.0	4.5	5.0	---	---	---	---	---	---	---	---	---
28	5.0	4.0	4.5	---	---	---	---	---	---	---	---	---
29	4.0	2.5	3.5	---	---	---	---	---	---	---	---	---
30	3.0	2.0	2.5	---	---	---	---	---	---	---	---	---
31	3.0	2.0	2.5	---	---	---	---	---	---	---	---	---
MONTH	7.0	2.0	5.4	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	4.5	2.5	3.5	5.5	3.5	4.5
2	---	---	---	---	---	---	3.5	3.0	3.0	6.0	3.5	4.5
3	---	---	---	---	---	---	4.0	2.5	3.5	6.0	3.5	5.0
4	---	---	---	---	---	---	5.0	3.0	4.0	7.0	3.5	5.0
5	---	---	---	---	---	---	5.0	2.5	3.5	6.5	3.0	5.0
6	---	---	---	---	---	---	5.5	2.5	4.0	7.0	3.0	5.0
7	---	---	---	---	---	---	5.0	3.5	4.5	7.5	4.0	5.5
8	---	---	---	---	---	---	6.5	3.5	4.5	7.0	4.5	6.0
9	---	---	---	---	---	---	5.0	3.0	4.0	6.0	4.5	5.0
10	---	---	---	---	---	---	4.5	3.5	4.0	7.5	4.5	6.0
11	---	---	---	---	---	---	5.5	3.0	4.0	8.0	4.0	6.0
12	---	---	---	---	---	---	4.0	2.5	3.0	8.0	4.0	6.0
13	---	---	---	---	---	---	5.0	3.0	3.5	8.5	4.0	6.5
14	---	---	---	---	---	---	6.0	2.5	4.0	7.5	4.0	6.0
15	---	---	---	---	---	---	5.0	2.0	3.5	8.5	4.0	6.0
16	---	---	---	---	---	---	5.0	2.0	3.5	7.5	4.5	6.0
17	---	---	---	---	---	---	5.0	3.5	4.5	8.5	4.0	6.5
18	---	---	---	---	---	---	6.0	3.5	4.5	9.0	4.5	6.5
19	---	---	---	---	---	---	6.5	3.0	4.5	9.0	4.5	6.5
20	---	---	---	---	---	---	7.0	3.0	5.0	8.5	4.5	6.5
21	---	---	---	---	---	---	7.0	3.5	5.0	8.0	4.0	6.0
22	---	---	---	---	---	---	5.5	3.5	4.0	8.5	4.0	6.0
23	---	---	---	---	---	---	5.5	3.5	4.5	9.0	5.0	7.0
24	---	---	---	---	---	---	4.5	3.5	4.0	7.5	5.0	6.0
25	---	---	---	---	---	---	4.0	3.5	4.0	7.5	5.5	6.5
26	---	---	---	---	---	---	5.0	3.0	4.0	7.0	5.0	6.0
27	---	---	---	---	---	---	7.0	3.5	5.0	8.0	4.5	6.0
28	---	---	---	---	---	---	7.0	3.5	5.5	8.5	5.0	6.5
29	---	---	---	---	---	---	7.5	3.5	5.5	7.5	5.0	6.5
30	---	---	---	---	---	---	7.5	3.5	5.5	8.0	5.5	6.5
31	---	---	---	---	---	---	---	---	---	7.5	5.0	6.5
MONTH	---	---	---	---	---	---	7.5	2.0	4.2	9.0	3.0	5.9

SOUTHEAST ALASKA

1501595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—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	8.0	5.5	6.5	9.0	6.5	7.5	8.5	6.0	7.5	8.0	7.0	7.5
2	8.5	5.5	7.0	8.0	6.5	7.0	8.0	6.5	7.0	8.0	6.5	7.0
3	9.5	5.0	7.5	10.0	6.0	8.0	8.5	6.5	7.5	7.5	7.0	7.0
4	8.0	5.5	7.0	8.5	6.0	7.5	9.0	7.0	7.5	7.5	6.0	7.0
5	8.0	6.0	7.0	7.5	6.5	7.0	8.5	7.0	7.5	8.0	6.5	7.0
6	8.5	5.5	6.5	7.5	6.5	7.0	9.0	7.0	7.5	8.5	6.5	7.5
7	10.0	5.5	7.5	6.5	5.5	6.0	9.0	7.0	7.5	7.5	6.5	7.0
8	9.5	5.5	7.5	9.0	6.0	7.5	9.0	6.5	8.0	8.0	6.0	7.0
9	7.5	5.5	6.5	11.0	6.5	8.5	9.0	7.0	8.0	7.5	6.0	6.5
10	7.5	5.0	6.5	9.0	7.0	8.0	9.0	7.0	8.0	7.5	6.5	7.0
11	8.0	5.5	7.0	9.5	6.5	7.5	8.5	7.0	7.5	7.5	7.0	7.0
12	7.5	5.5	6.5	9.0	6.5	7.5	8.5	7.0	7.5	7.0	6.5	7.0
13	7.0	6.0	6.5	10.5	6.5	8.5	8.5	7.5	7.5	7.0	6.5	7.0
14	8.0	5.5	6.5	9.5	6.5	8.0	8.5	7.5	8.0	7.0	6.5	7.0
15	7.5	6.0	6.5	10.5	6.5	8.5	9.5	7.0	8.0	7.5	6.5	7.0
16	10.5	5.5	8.0	9.0	7.0	8.0	9.0	6.5	8.0	7.5	6.5	7.0
17	10.5	6.0	8.5	9.5	7.0	8.0	10.0	6.5	8.0	7.5	6.5	7.0
18	10.5	6.5	8.5	10.5	6.5	8.5	10.0	6.5	8.0	7.5	7.0	7.0
19	10.5	6.0	8.0	9.0	7.0	7.5	8.5	6.5	7.5	7.5	6.5	7.0
20	10.0	6.0	8.0	8.5	7.0	7.5	8.5	6.5	7.5	7.5	6.5	7.0
21	10.0	6.0	8.0	10.0	7.0	8.0	9.0	6.5	7.5	7.0	6.5	6.5
22	10.0	6.0	8.0	10.5	6.0	8.0	9.5	6.5	7.5	6.5	6.0	6.0
23	10.0	6.0	8.0	11.0	6.5	8.5	9.0	5.5	7.0	6.5	6.0	6.0
24	10.5	6.0	8.0	11.0	6.5	8.5	9.0	6.0	7.5	6.5	6.5	6.5
25	10.0	6.0	8.0	9.0	7.0	8.0	9.0	6.0	7.5	7.0	6.0	6.5
26	10.5	6.5	8.5	9.5	6.5	8.0	8.5	6.5	7.0	7.0	5.5	6.5
27	8.5	6.5	7.5	10.5	6.5	8.5	7.5	6.5	7.0	7.5	6.5	7.0
28	9.5	6.0	7.5	9.0	7.5	7.5	8.0	6.0	7.0	7.0	5.5	6.5
29	9.5	6.5	7.5	9.0	7.0	8.0	8.0	6.5	7.0	7.0	5.5	6.5
30	7.5	6.5	7.0	9.0	6.5	7.5	8.0	6.5	7.0	8.0	6.5	7.0
31	---	---	---	9.0	6.0	7.5	8.0	6.5	7.0	---	---	---
MONTH	10.5	5.0	7.4	11.0	5.5	7.8	10.0	5.5	7.5	8.5	5.5	6.8

15019990 TYEE LAKE OUTLET NEAR WRANGELL

LOCATION.--Lat 56°12'00", long 131°30'24", in SE¹/₄ SW¹/₄ 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 mi².

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 ft³/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.

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	128	165	0.00	0.00	5.7	0.00	0.00	104	315	232	55	1.8
2	102	119	0.00	0.00	3.4	0.00	0.00	155	309	216	65	1.0
3	80	83	0.00	0.00	1.7	0.00	0.00	200	302	201	85	1.7
4	65	56	0.00	0.00	0.60	0.00	0.00	228	298	180	89	18
5	55	36	0.00	0.00	0.00	0.00	0.00	227	343	169	85	36
6	68	21	0.00	0.00	0.00	0.00	0.00	207	377	226	87	39
7	95	12	0.00	0.00	0.00	0.00	0.00	191	389	231	83	38
8	107	6.9	0.00	0.00	0.00	0.00	0.00	180	428	213	71	34
9	97	4.0	0.00	0.00	0.00	0.00	0.00	171	437	189	57	26
10	98	2.1	0.00	0.00	0.00	0.00	0.00	165	405	173	47	19
11	94	0.79	0.00	0.00	0.00	0.00	0.00	167	364	158	39	15
12	79	13	0.00	0.00	0.00	0.00	0.00	168	349	138	29	16
13	67	310	0.00	0.00	0.00	0.00	0.00	178	361	118	21	91
14	67	370	0.00	0.00	0.00	0.00	0.00	197	358	106	16	149
15	60	290	0.00	8.0	0.00	0.00	0.00	217	329	98	14	147
16	51	223	0.00	15	0.00	0.00	0.00	227	304	106	13	126
17	54	167	0.00	21	0.00	0.00	0.00	229	300	104	11	100
18	104	127	0.00	46	0.00	0.00	0.00	236	315	90	8.9	77
19	160	90	0.00	58	0.00	0.00	0.00	255	351	79	6.9	59
20	150	60	0.00	59	0.00	0.00	0.00	297	379	77	6.1	54
21	159	38	0.00	66	0.00	0.00	0.00	335	393	77	5.2	247
22	193	23	0.00	88	0.00	0.00	0.00	339	403	73	4.0	311
23	218	15	0.00	103	0.00	0.00	0.00	321	407	65	2.5	403
24	211	9.4	0.00	93	0.00	0.00	0.58	315	410	62	1.2	669
25	447	6.1	0.00	75	0.00	0.00	2.1	346	402	68	0.47	583
26	789	3.5	0.00	57	0.00	0.00	10	383	382	68	0.11	435
27	624	2.3	0.00	40	0.00	0.00	23	386	359	58	0.93	360
28	503	0.90	0.00	28	0.00	0.00	31	359	323	60	2.9	305
29	388	0.00	0.00	19	0.00	0.00	39	338	284	84	2.7	237
30	292	0.00	0.00	13	---	0.00	57	328	255	81	2.6	182
31	221	---	0.00	8.9	---	0.00	---	324	---	67	2.7	---
TOTAL	5826	2253.99	0.00	797.90	11.40	0.00	162.68	7773	10631	3867	914.21	4780.5
MEAN	188	75.1	0.00	25.7	0.39	0.00	5.42	251	354	125	29.5	159
MAX	789	370	0.00	103	5.7	0.00	57	386	437	232	89	669
MIN	51	0.00	0.00	0.00	0.00	0.00	0.00	104	255	58	0.11	1.0
AC-FT	11560	4470	0.00	1580	23	0.00	323	15420	21090	7670	1810	9480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)#

MEAN	155	51.0	12.8	8.15	0.23	0.00	3.10	85.0	272	178	106	187
MAX	264	108	64.4	61.4	2.08	0.00	24.8	251	367	305	216	298
(WY)	2000	1993	2003	2003	2003	1993	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

Record for 1980 and 1981 water years, prior to diversion of 1984, not included. See Period of Record.

SOUTHEAST ALASKA

15019990 TYEE LAKE OUTLET NEAR WRANGELL—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1992 - 2004#	
ANNUAL TOTAL	31967.40		37017.68			
ANNUAL MEAN	87.6		101		87.9	
HIGHEST ANNUAL MEAN					113	
LOWEST ANNUAL MEAN					56.5	
HIGHEST DAILY MEAN	789	Oct 26	789	Oct 26	789	Oct 26 2003
LOWEST DAILY MEAN	a0.00	Feb 10	b0.00	Nov 29	c0.00	Dec 30 1992
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 10	0.00	Nov 29	0.00	Dec 30 1992
MAXIMUM PEAK FLOW			d856	Oct 26	d975	Oct 26 1993
MAXIMUM PEAK STAGE			27.43	Oct 26	28.62	Oct 26 1993
INSTANTANEOUS LOW FLOW			f		f	
ANNUAL RUNOFF (AC-FT)	63410		73420		63670	
10 PERCENT EXCEEDS	290		336		280	
50 PERCENT EXCEEDS	21		30		20	
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	
LOWEST ANNUAL MEAN	146	
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	

- # Record for 1980 and 1981 water years, prior to diversion of 1984, not included. See Period of Record.
a Feb 10 to May 13 and Nov 29 to Dec 31.
b Nov 29 to Jan. 14, Feb. 5 to Apr. 23
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 April 2-3 1980.

15019990 TYEE LAKE OUTLET NEAR WRANGELL—Continued

LAKE-STAGE RECORDS

PERIOD OF RECORD.-- June of 1992 to Sept.2002 (fragmentary) during many winter months when lake level was below the point of Zero flow at the outlet. 2003 to 2004.

GAGE.-- Water-stage recorder. Datum of gage is mean low low water (GPS survey of Aug.21,2003 by USGS using NADD 83) 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. Waterfor 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. Oct.26,1993;minimum observed unknown until 2003 wy

EXTREMES FOR CURRENT YEAR.-- Maximum elevation,1381.28 ft.October 25 ,2003; minimum 1363.82 ft.March 28,2004

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1373.41	1373.60	1368.60	1366.75	1369.86	1366.99	1364.60	1372.57	1375.77	1374.63	1371.59	1369.34
2	1372.83	1372.84	1368.54	1366.50	1369.59	1366.82	1364.50	1373.45	1375.69	1374.39	1371.82	1369.17
3	1372.34	1372.18	1368.42	1366.23	1369.31	1366.66	1364.55	1374.15	1375.59	1374.17	1372.22	1369.31
4	1371.95	1371.63	1368.18	1365.96	1369.05	1366.50	1364.71	1374.57	1375.55	1373.84	1372.29	1370.57
5	1371.68	1371.15	1367.96	1365.67	1368.85	1366.38	1364.74	1374.55	1376.13	1373.68	1372.21	1371.16
6	1372.02	1370.73	1367.70	1365.36	1368.68	1366.23	1364.70	1374.26	1376.57	1374.54	1372.25	1371.24
7	1372.68	1370.33	1367.43	1365.08	1368.49	1366.19	1364.71	1374.02	1376.71	1374.61	1372.18	1371.20
8	1372.95	1369.97	1367.14	1364.88	1368.35	1366.34	1364.85	1373.84	1377.19	1374.35	1371.93	1371.11
9	1372.74	1369.66	1366.83	1364.79	1368.34	1366.83	1365.00	1373.70	1377.30	1373.98	1371.65	1370.88
10	1372.74	1369.38	1366.51	1365.05	1368.38	1366.87	1365.18	1373.61	1376.91	1373.74	1371.41	1370.66
11	1372.65	1369.11	1366.21	1365.18	1368.33	1366.84	1365.71	1373.64	1376.39	1373.49	1371.23	1370.50
12	1372.31	1369.92	1365.96	1365.23	1368.24	1366.76	1366.51	1373.65	1376.20	1373.16	1370.97	1370.53
13	1372.01	1375.60	1365.67	1365.93	1368.17	1366.64	1367.07	1373.81	1376.36	1372.83	1370.73	1372.28
14	1372.00	1376.48	1365.36	1367.73	1368.16	1366.53	1367.40	1374.11	1376.32	1372.61	1370.53	1373.36
15	1371.81	1375.44	1365.12	1370.02	1368.09	1366.45	1367.67	1374.40	1375.95	1372.46	1370.44	1373.32
16	1371.57	1374.48	1364.98	1370.48	1367.99	1366.35	1367.82	1374.55	1375.62	1372.61	1370.39	1372.97
17	1371.67	1373.64	1364.79	1370.74	1367.87	1366.16	1367.94	1374.59	1375.57	1372.57	1370.28	1372.49
18	1372.88	1372.98	1364.61	1371.38	1367.85	1365.94	1368.04	1374.68	1375.77	1372.30	1370.13	1372.06
19	1374.03	1372.31	1364.89	1371.67	1367.86	1365.73	1368.04	1374.95	1376.24	1372.10	1369.97	1371.68
20	1373.86	1371.70	1365.19	1371.68	1367.88	1365.53	1368.03	1375.53	1376.58	1372.05	1369.90	1371.56
21	1374.00	1371.19	1365.20	1371.83	1367.99	1365.32	1368.13	1376.03	1376.77	1372.06	1369.81	1374.81
22	1374.61	1370.81	1366.04	1372.28	1368.01	1365.10	1368.35	1376.08	1376.89	1371.98	1369.66	1375.72
23	1375.02	1370.48	1367.48	1372.56	1367.95	1364.81	1368.82	1375.85	1376.94	1371.81	1369.45	1376.88
24	1374.91	1370.17	1367.96	1372.37	1367.87	1364.53	1369.04	1375.76	1376.97	1371.75	1369.21	1379.91
25	1378.09	1369.89	1368.13	1372.03	1367.75	1364.30	1369.38	1376.17	1376.87	1371.88	1369.00	1378.97
26	1381.28	1369.60	1368.15	1371.64	1367.61	1364.07	1370.20	1376.64	1376.63	1371.88	1368.83	1377.27
27	1379.42	1369.41	1367.98	1371.26	1367.46	1363.89	1370.80	1376.68	1376.33	1371.67	1369.11	1376.35
28	1378.07	1369.13	1367.75	1370.94	1367.31	1363.82	1371.03	1376.34	1375.87	1371.71	1369.51	1375.63
29	1376.70	1368.88	1367.48	1370.68	1367.16	1364.02	1371.23	1376.07	1375.35	1372.20	1369.49	1374.69
30	1375.46	1368.67	1367.23	1370.40	---	1364.63	1371.64	1375.94	1374.95	1372.14	1369.47	1373.87
31	1374.46	---	1366.99	1370.13	---	1364.71	---	1375.89	---	1371.86	1369.48	---
MEAN	1373.94	1371.38	1366.79	1368.79	1368.22	1365.74	1367.35	1374.84	1376.27	1372.87	1370.55	1372.98
MAX	1381.28	1376.48	1368.60	1372.56	1369.86	1366.99	1371.64	1376.68	1377.30	1374.63	1372.29	1379.91
MIN	1371.57	1368.67	1364.61	1364.79	1367.16	1363.82	1364.50	1372.57	1374.95	1371.67	1368.83	1369.17

15022000 HARDING RIVER NEAR WRANGELL

LOCATION.--Lat 56°12'48", long 131°38'12", in SW¹/₄ SW¹/₄ sec. 22, T. 65 S., R. 89 E. (Bradfield Canal A-5 quad), Hydrologic Unit 19010101, in Tongass National Forest, on right bank 1 mi upstream from mouth on north shore of Bradfield Canal, 4 mi downstream from Fall Lake, and 34 mi southeast of Wrangell.

DRAINAGE AREA.--67.4 mi².

PERIOD OF RECORD.--August 1951 to April 30, 2004. (discontinued)

REVISED RECORDS.--WSP 1640: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above sea level, by barometer. Prior to September 30, 1960, at site 300 ft upstream at datum 0.12 ft lower. October 1, 1960, to August 23, 1975, at prior site and present datum.

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

EXTREMES FOR CURRENT PERIOD.-- Maximum discharge for period October 2003 through April 2004, 11,300 ft³/s, Oct. 26, gage height 13.57, minimum not determined, minimum daily mean discharge 70 ft³/s January 28.

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	531	310	345	e150	e76	e150	348	---	---	---	---	---
2	481	263	651	e120	e80	e140	339	---	---	---	---	---
3	439	227	436	e90	e85	e130	492	---	---	---	---	---
4	429	e190	270	e85	e90	e120	658	---	---	---	---	---
5	476	e180	228	e80	e94	e110	480	---	---	---	---	---
6	690	e170	192	e80	e100	166	386	---	---	---	---	---
7	1080	e160	181	e85	e400	372	381	---	---	---	---	---
8	973	e150	e170	e90	e500	725	464	---	---	---	---	---
9	631	e140	e160	e97	e520	860	486	---	---	---	---	---
10	769	e130	e150	e200	e400	454	587	---	---	---	---	---
11	587	e190	e145	e390	e310	419	927	---	---	---	---	---
12	402	1480	e160	e600	e290	356	1320	---	---	---	---	---
13	365	4470	e190	e900	e270	269	1010	---	---	---	---	---
14	677	1390	e240	e1400	e250	237	787	---	---	---	---	---
15	518	666	e300	e1200	e240	272	671	---	---	---	---	---
16	385	479	e330	724	e230	307	518	---	---	---	---	---
17	501	388	e320	868	214	291	460	---	---	---	---	---
18	1180	328	384	1120	298	213	457	---	---	---	---	---
19	1670	266	1430	905	480	e170	395	---	---	---	---	---
20	834	216	1200	702	510	e150	364	---	---	---	---	---
21	1120	e170	688	889	574	e140	411	---	---	---	---	---
22	1020	e140	2080	1250	410	e130	515	---	---	---	---	---
23	1150	e120	2140	1140	332	e120	715	---	---	---	---	---
24	914	e110	987	642	317	e178	725	---	---	---	---	---
25	6780	e105	770	403	258	215	813	---	---	---	---	---
26	8100	e101	515	e200	221	223	1310	---	---	---	---	---
27	1930	e100	364	e73	196	255	932	---	---	---	---	---
28	1610	e100	276	e70	181	395	670	---	---	---	---	---
29	763	e110	237	e71	e160	690	622	---	---	---	---	---
30	495	e190	213	e72	---	913	880	---	---	---	---	---
31	379	---	191	e73	---	490	---	---	---	---	---	---
TOTAL	37879	13039	15943	14769	8086	9660	19123	---	---	---	---	---
MEAN	1222	435	514	476	279	312	637	---	---	---	---	---
MAX	8100	4470	2140	1400	574	913	1320	---	---	---	---	---
MIN	365	100	145	70	76	110	339	---	---	---	---	---
MED	690	185	300	200	258	237	553	---	---	---	---	---
AC-FT	75130	25860	31620	29290	16040	19160	37930	---	---	---	---	---
CFSM	18.1	6.45	7.63	7.07	4.14	4.62	9.46	---	---	---	---	---
IN.	20.91	7.20	8.80	8.15	4.46	5.33	10.55	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)#

MEAN	1077	499	345	263	236	204	366	918	1385	1340	1137	1161
MAX	2152	1252	1065	819	655	510	733	1357	1896	1878	1871	2039
(WY)	1962	1970	1990	1981	1954	1986	1994	1956	1996	1972	2002	2001
MIN	610	118	102	50.6	46.7	54.8	90.0	624	960	861	601	507
(WY)	1970	1986	1984	1969	1969	1969	1954	1977	1981	1995	1993	1965

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

15022000 HARDING RIVER NEAR WRANGELL—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		WATER YEARS 1951 - 2004#	
ANNUAL TOTAL	287791			
ANNUAL MEAN	788		747	
HIGHEST ANNUAL MEAN			921	1992
LOWEST ANNUAL MEAN			558	1995
HIGHEST DAILY MEAN	8100	Oct 26	11400	Oct 14 1961
LOWEST DAILY MEAN	94	Mar 12	a35	Jan 23 1969
ANNUAL SEVEN-DAY MINIMUM	107	Nov 23	35	Jan 23 1969
MAXIMUM PEAK FLOW	b11300	Oct 26	b15300	Oct 26 1993
MAXIMUM PEAK STAGE	13.57	Oct 26	c16.22	Oct 14 1961
INSTANTANEOUS LOW FLOW	d		35	Jan 23 1969
ANNUAL RUNOFF (AC-FT)	570800		541100	
ANNUAL RUNOFF (CFSM)	11.7		11.1	
ANNUAL RUNOFF (INCHES)	158.84		150.56	
10 PERCENT EXCEEDS	1610		1610	
50 PERCENT EXCEEDS	504		544	
90 PERCENT EXCEEDS	140		110	

See Period of Record; partial years used in monthly statistics

a From Jan. 23 to Feb. 11, 1969

b From rating curve extended above 5,000 ft³/s on basis of slope-area measurement at gage height, 13.90 ft

c At site then in use

d Not determined, see lowest daily mean

15024800 STIKINE RIVER NEAR WRANGELL
(International gaging station)

LOCATION.--Lat 56°42'29", long 132°07'49", in SE¹/₄ SE¹/₄ 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 mi², 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, Nov. 26 to Apr. 18, which are poor. GOES satellite telemetry at station.

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	83400	43200	e9800	e7300	e6100	e7600	e13000	43400	105000	171000	102000	63300
2	78600	38500	e9500	e7200	e6000	e7500	e12500	52600	98400	159000	97500	63400
3	74000	e31000	e9300	e7000	e5800	e7400	e16100	59000	92100	153000	99000	65600
4	70600	e27000	e9100	e6900	e5700	e7200	e18300	63500	89100	147000	99400	86500
5	70200	e23000	e9000	e6800	e5700	e7000	e17900	67100	96700	140000	103000	78200
6	69100	e20000	e8800	e6700	e5700	e7000	e16600	62800	115000	142000	109000	64200
7	77100	e18000	e8700	e6700	e5800	e7000	e16300	56200	137000	144000	107000	58500
8	71100	e16000	e8600	e6600	e5900	e7000	e16800	55500	168000	139000	102000	53300
9	61700	e16000	e8500	e6600	e6100	e7200	e17800	58800	180000	152000	100000	46400
10	57900	e17000	e8400	e6500	e6300	e7400	e17900	60600	168000	159000	105000	40300
11	51100	e18000	e8300	e6700	e6600	e7700	21000	59900	147000	153000	116000	36900
12	45000	e20000	e8300	e7000	e6800	e7900	24900	59300	131000	140000	114000	36600
13	40900	e45000	e8300	e7200	e6900	e8000	26200	62400	126000	140000	97900	43600
14	41800	e34000	e8400	e7500	e7000	e7800	27000	70400	126000	148000	98900	53700
15	38700	e28000	e8400	e7700	e7000	e7600	26600	78200	122000	150000	111000	51100
16	34700	e24000	e8500	e7800	e7200	e7600	e23500	82900	118000	151000	125000	44000
17	32500	e20000	e8800	e7800	e7300	e7600	e22000	86400	121000	145000	131000	38700
18	34500	e18000	e9000	e7800	e7400	e7600	e21500	91200	133000	134000	132000	35300
19	42700	e17000	e9200	e7500	e7500	e7700	e20900	97500	152000	131000	128000	32900
20	39600	e15000	e9500	e7200	e7600	e7800	e20100	110000	171000	133000	113000	33600
21	35900	e14000	e10000	e7200	e7800	e8000	e20600	125000	184000	139000	100000	90300
22	37000	e13000	e11000	e7200	e8100	e8300	e21500	129000	192000	136000	94800	115000
23	38200	e13000	e12000	e7100	e8200	e8600	25300	119000	191000	136000	87800	102000
24	35800	e12000	e11000	e6800	e8400	e9400	26100	112000	197000	136000	72900	151000
25	78600	e12000	e10000	e6600	e8400	e12000	27600	117000	199000	133000	69000	134000
26	173000	e11000	e9700	e6500	e8300	e14000	34400	131000	193000	121000	68200	85000
27	176000	e11000	e9000	e6500	e8100	e14500	36700	140000	192000	109000	75100	78900
28	114000	e11000	e8300	e6200	e8000	e14500	35100	134000	180000	117000	90900	83900
29	82000	e10000	e8000	e6200	e7800	e14000	34300	121000	174000	135000	78700	64600
30	62600	e10000	e7600	e6200	---	e14000	36400	113000	179000	133000	68900	55000
31	51200	---	e7400	e6100	---	e13500	---	109000	---	112000	64500	---
TOTAL	1999500	605700	280400	215100	203500	280400	694900	2727700	4477300	4338000	3061500	1985800
MEAN	64500	20190	9045	6939	7017	9045	23160	87990	149200	139900	98760	66190
MAX	176000	45000	12000	7800	8400	14500	36700	140000	199000	171000	132000	151000
MIN	32500	10000	7400	6100	5700	7000	12500	43400	89100	109000	64500	32900
MED	57900	17500	8800	6900	7000	7700	21500	82900	150000	140000	100000	60900
AC-FT	3966000	1201000	556200	426700	403600	556200	1378000	5410000	8881000	8604000	6072000	3939000
CFSM	3.24	1.01	0.45	0.35	0.35	0.45	1.16	4.42	7.49	7.02	4.96	3.32
IN.	3.73	1.13	0.52	0.40	0.38	0.52	1.30	5.09	8.36	8.10	5.72	3.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, 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
MEAN	57330	24480	13970	11550	9172	9968	16730	66950	135200	134600	106900	80130																	
MAX	113300	58280	25780	39450	19080	42340	31960	119100	199900	163800	134200	128600																	
(WY)	1987	1979	1990	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																	

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

15024800 STIKINE RIVER NEAR WRANGELL—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1976 - 2004#	
ANNUAL TOTAL	19451650		20869800			
ANNUAL MEAN	53290		57020		55760	
HIGHEST ANNUAL MEAN					72870	
LOWEST ANNUAL MEAN					42100	
HIGHEST DAILY MEAN	176000	Oct 27	199000	Jun 25	324000	Sep 23 1994
LOWEST DAILY MEAN	4500	Mar 12	a5700	Feb 4	4000	Feb 12 1988
ANNUAL SEVEN-DAY MINIMUM	4740	Mar 8	5800	Feb 2	4090	Mar 8 1999
MAXIMUM PEAK FLOW			b201000	Jun 24	351000	Sep 23 1994
MAXIMUM PEAK STAGE			b24.34	Jun 24	30.60	Sep 23 1994
ANNUAL RUNOFF (AC-FT)	38580000		41400000		40390000	
ANNUAL RUNOFF (CFSM)	2.68		2.86		2.80	
ANNUAL RUNOFF (INCHES)	36.33		38.97		38.03	
10 PERCENT EXCEEDS	127000		139000		136000	
50 PERCENT EXCEEDS	37000		35600		31900	
90 PERCENT EXCEEDS	7000		7000		7200	

a Feb. 4-6

b Jun. 24-25

See Period of Record; partial years used in monthly statistics

SOUTHEAST ALASKA

15041200 TAKU RIVER NEAR JUNEAU
(International gaging station)

LOCATION.--Lat 58°32'19", long 133°42'00", in NE¹/₄ NW¹/₄ 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 mi², 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 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun 09	0145	59,300	39.86	July 01	1315	51,000	38.97
Jun 25	1630	*128,000	*45.07	July 14	1645	55,400	39.45

DISCHARGE, in CFS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20800	e7400	e3600	e2700	e1600	e2000	2600	11500	28400	50500	27000	15300
2	19200	e6800	e3500	e2600	e1600	e1900	2740	13700	26700	47700	23600	15300
3	17700	e6000	e3400	e2500	e1500	e1900	3240	15700	24800	47000	25500	19800
4	16900	e5100	e3300	e2400	e1500	e1900	3840	17600	24800	45800	27900	24600
5	17200	e4600	e3250	e2400	e1500	e1900	3940	17700	29100	41800	27400	22100
6	15400	e4300	e3200	e2300	e1500	e1800	3760	16200	37600	39200	29100	18800
7	14400	e4100	e3100	e2200	e1600	e1800	3640	16000	47000	39100	29300	15500
8	13200	e4000	e3100	e2200	e1700	e1900	3720	17800	55700	37000	29100	12700
9	11700	e4200	e3000	e2200	e1800	e1900	3880	19600	57200	37300	26900	11000
10	10700	e4700	e2900	e2200	e1900	e2000	3950	19600	47500	37000	27300	9900
11	9800	e5200	e2900	e2200	e1900	e2100	4170	18900	38200	36200	29300	9090
12	8920	e6000	e2900	e2100	e2000	e2100	4580	19300	32300	35200	28300	9150
13	8180	e7400	e3000	e2200	e2000	e2100	4810	21600	30300	39600	25300	10400
14	7670	e6700	e3000	e2300	e2100	e2000	5000	25200	33500	50400	25300	11200
15	7280	e6000	e3000	e2400	e2100	e2000	4920	28200	34700	40300	28300	10600
16	6840	e5600	e3100	e2300	e2100	e2000	4570	29500	33400	36500	30700	9790
17	6470	e5300	e3200	e2300	e2100	e2000	4370	30400	33200	35900	33900	8820
18	6290	e5000	e3200	e2200	e2170	e2000	4380	30700	35800	34400	36900	8030
19	6150	e4700	e3300	e2200	e2200	e1900	4450	31900	42900	33000	34200	7490
20	6150	e4500	e3400	e2200	e2300	e1900	4430	36400	47500	32500	29700	7430
21	5990	e4300	e3400	e2300	e2400	e2000	4600	41300	49200	33400	27500	17800
22	5830	e4200	e3500	e2300	e2500	e2000	4970	40100	48200	35700	26700	28000
23	5860	e4100	e3600	e2200	e2500	e2000	5120	37300	48000	38300	22600	24900
24	5810	e4100	e3500	e2100	e2500	2140	5140	38600	64100	36700	19100	33100
25	7760	e4000	e3400	e2000	e2400	2470	5660	42700	113000	32500	17900	29000
26	16800	e4000	e3200	e1900	e2300	2800	7510	46500	76800	28700	17100	20900
27	21700	e3900	e3100	e1800	e2300	2870	8630	43100	48800	26900	19800	24200
28	16000	e3800	e3000	e1700	e2200	2810	8860	38400	48100	32200	22400	25000
29	12400	e3800	e2800	e1700	e2100	2840	9120	36100	47000	40000	20900	20100
30	10200	e3700	e2700	e1700	---	2850	9540	36600	49100	37300	17300	17100
31	8480	---	e2800	e1600	---	2690	---	31300	---	32700	15900	---
TOTAL	347780	147500	98350	67400	58370	66570	150140	869500	1332900	1170800	802200	497100
MEAN	11220	4917	3173	2174	2013	2147	5005	28050	44430	37770	25880	16570
MAX	21700	7400	3600	2700	2500	2870	9540	46500	113000	50500	36900	33100
MIN	5810	3700	2700	1600	1500	1800	2600	11500	24800	26900	15900	7430
AC-FT	689800	292600	195100	133700	115800	132000	297800	1725000	2644000	2322000	1591000	986000
CFSM	1.70	0.74	0.48	0.33	0.30	0.33	0.76	4.25	6.73	5.72	3.92	2.51
IN.	1.96	0.83	0.55	0.38	0.33	0.38	0.85	4.90	7.51	6.60	4.52	2.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)#

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
	11610	4740	3434	2282	1935	2480	4333	20040	34310	31980	26280	18980
	17250	8633	6613	4223	3682	10500	6815	33800	49280	41080	33330	26550
	1992	1994	2000	2000	1992	1992	1992	1993	1992	1992	2002	1994
	6265	2488	1256	1125	1041	1359	1870	9652	23170	25040	18610	11180
	1997	1997	1997	1988	1999	1991	2002	2001	1995	1996	1995	1992

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

15041200 TAKU RIVER NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004#	
ANNUAL TOTAL	4260730		5608610			
ANNUAL MEAN	11670		15320		13600	
HIGHEST ANNUAL MEAN					16820	
LOWEST ANNUAL MEAN					10800	
HIGHEST DAILY MEAN					113000	
LOWEST DAILY MEAN	a1200	Aug 10	b1500	Jun 25	710	Jun 25 2004
ANNUAL SEVEN-DAY MINIMUM	1230	Mar 10	1540	Feb 3	721	Feb 12 1988
MAXIMUM PEAK FLOW			c128000	Jan 31	721	Feb 8 1988
MAXIMUM PEAK STAGE			45.07	Jun 25	c128000	Jun 25 2004
INSTANTANEOUS LOW FLOW			d	Jun 25	45.07	Jun 25 2004
ANNUAL RUNOFF (AC-FT)	8451000		11120000		710	Feb 12 1989
ANNUAL RUNOFF (CFSM)	1.77		2.32		9851000	
ANNUAL RUNOFF (INCHES)	24.02		31.61		2.06	
10 PERCENT EXCEEDS	28200		37800		33200	
50 PERCENT EXCEEDS	7250		6820		7280	
90 PERCENT EXCEEDS	1500		2000		1650	

See Period of Record; partial years used in monthly statistics

a Mar. 10 to 14

b Feb. 3-6

c Result of Tulsequah River glacier dam breakout

d Not determined see lowest daily mean

15041200 TAKU RIVER NEAR JUNEAU—Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1999 to current year

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

REMARKS.- Records good. Records represent water temperature at the sensor within 0.5°C. The outburst peak of the lake dammed by Tulsequah Glacier occurred on June 25, 2004.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 12.5°C, June 18 and July 16, 2004; minimum, 0.0°C, many days during winter.

WATER TEMPERATURE, in DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	5.5	6.0	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
2	6.5	5.0	6.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
3	6.0	4.5	5.5	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
4	5.5	4.5	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
5	6.0	5.0	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	6.0	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
7	6.5	5.5	6.0	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
8	6.5	5.5	6.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
9	6.0	5.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	5.5	5.0	5.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
11	5.5	4.0	4.5	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
12	4.5	3.0	3.5	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
13	3.5	3.0	3.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
14	4.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	3.5	3.0	3.0	0.5	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0
17	3.5	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
18	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	4.0	3.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	4.0	4.0	4.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	4.0	3.0	3.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
22	3.0	2.5	3.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
23	4.0	3.0	3.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
24	4.0	3.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	4.5	3.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	5.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
27	4.5	3.5	4.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3.5	3.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	3.0	1.5	2.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
30	1.5	0.5	1.0	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
31	0.5	0.0	0.0	---	---	---	0.5	0.0	0.5	0.0	0.0	0.0
MONTH	6.5	0.0	4.0	0.5	0.0	0.1	0.5	0.0	0.1	0.5	0.0	0.0

15041200 TAKU RIVER NEAR JUNEAU—Continued

WATER TEMPERATURE, in DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	1.5	0.5	0.5	3.0	2.0	2.5	7.5	5.5	6.0
2	0.5	0.0	0.0	1.5	0.5	0.5	2.5	1.5	2.0	7.0	5.0	6.0
3	0.0	0.0	0.0	1.0	0.5	0.5	3.0	1.5	2.5	7.5	5.0	6.5
4	0.0	0.0	0.0	1.0	0.5	0.5	3.5	2.0	2.5	7.5	5.0	6.0
5	0.0	0.0	0.0	1.0	0.5	1.0	4.5	2.0	3.0	7.0	4.0	6.0
6	0.0	0.0	0.0	1.0	0.5	0.5	4.0	2.0	3.0	8.0	5.0	6.5
7	0.0	0.0	0.0	1.0	0.5	0.5	4.0	2.5	3.0	8.0	6.0	7.0
8	0.0	0.0	0.0	1.0	0.0	0.5	5.0	2.5	3.5	8.0	6.0	7.0
9	0.5	0.0	0.0	1.0	0.5	0.5	4.0	3.0	3.0	7.5	6.0	6.5
10	0.0	0.0	0.0	0.5	0.5	0.5	5.0	3.0	3.5	8.0	5.5	6.5
11	0.5	0.0	0.5	1.5	0.5	1.0	5.0	3.0	4.0	8.5	5.5	7.0
12	0.5	0.0	0.5	1.0	0.5	1.0	4.0	3.0	3.5	9.0	6.0	7.5
13	0.5	0.0	0.5	1.5	0.5	1.0	4.5	2.5	3.5	9.5	6.5	8.0
14	0.5	0.0	0.5	1.5	0.5	1.0	4.5	2.5	3.5	9.0	6.5	8.0
15	0.5	0.0	0.5	1.5	1.0	1.5	4.0	2.0	3.0	9.0	6.5	7.5
16	0.5	0.0	0.5	2.0	1.0	1.5	4.5	2.5	3.5	8.5	6.5	7.5
17	0.5	0.0	0.5	2.5	1.5	1.5	4.5	3.5	4.0	8.5	7.0	8.0
18	0.5	0.5	0.5	2.5	1.0	1.5	5.5	3.5	4.5	9.5	7.0	8.0
19	0.5	0.5	0.5	3.0	1.0	1.5	6.0	3.5	4.5	10.0	7.0	8.5
20	1.0	0.5	0.5	2.5	0.5	1.0	6.0	3.5	4.5	9.5	7.5	8.5
21	1.0	0.5	0.5	2.0	0.0	1.0	6.5	4.0	5.0	9.0	7.0	8.0
22	0.5	0.5	0.5	2.0	0.5	1.5	5.0	3.5	4.0	9.0	6.0	7.5
23	0.5	0.5	0.5	3.0	0.5	2.0	4.5	3.0	3.5	9.5	7.0	8.0
24	1.0	0.5	0.5	4.0	1.5	2.5	5.0	4.0	4.5	9.0	8.0	8.0
25	1.0	0.5	0.5	3.5	2.5	3.0	4.5	4.0	4.5	8.0	7.0	7.5
26	1.0	0.0	0.5	4.0	2.5	3.0	5.0	3.5	4.5	8.5	6.5	7.5
27	1.5	0.0	0.5	3.5	2.5	2.5	5.5	4.0	5.0	9.0	6.5	8.0
28	1.5	0.0	0.5	2.5	1.0	2.0	6.5	4.5	5.5	9.5	7.0	8.0
29	1.5	0.5	0.5	2.5	1.0	1.5	7.0	4.0	5.5	9.5	7.5	8.5
30	---	---	---	2.5	1.0	1.5	8.0	5.0	6.5	8.5	6.0	7.0
31	---	---	---	3.0	1.0	2.0	---	---	---	9.5	7.0	8.0
MONTH	1.5	0.0	0.3	4.0	0.0	1.3	8.0	1.5	3.9	10.0	4.0	7.4
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.0	7.0	8.5	10.0	8.5	9.0	9.0	7.5	8.5	9.0	6.5	7.5
2	9.5	8.0	8.5	10.0	8.0	9.0	9.0	8.0	8.5	8.5	7.0	7.5
3	10.5	7.5	9.0	9.5	8.0	9.0	9.0	8.0	8.5	7.5	7.0	7.0
4	10.5	8.5	9.5	10.0	8.0	9.0	10.5	8.0	9.0	7.5	6.5	7.0
5	10.0	8.5	9.0	11.0	8.5	9.5	10.5	8.5	9.5	7.5	6.0	6.0
6	10.5	7.5	9.0	11.0	9.0	10.0	10.0	8.0	8.5	6.5	6.0	6.0
7	11.0	8.0	9.5	10.5	8.0	9.0	9.0	7.0	8.0	7.5	5.5	6.5
8	10.0	8.5	9.0	10.5	7.5	9.0	10.5	7.0	8.5	7.0	5.5	6.5
9	9.0	8.0	8.5	11.0	8.5	9.5	10.5	8.0	9.5	7.0	5.0	6.0
10	10.0	7.5	8.5	10.0	9.0	9.5	10.5	8.5	9.5	6.5	5.0	5.5
11	10.0	8.0	9.0	9.5	8.5	9.0	10.5	9.0	9.5	6.5	5.5	6.0
12	10.5	8.0	9.5	10.0	8.0	9.0	10.0	8.0	9.0	7.0	6.0	6.5
13	10.0	8.5	9.0	9.5	7.5	8.5	10.5	7.5	9.0	7.0	6.0	6.5
14	9.0	8.0	8.5	9.5	6.5	8.0	11.0	8.5	9.5	7.0	6.0	6.5
15	10.0	8.0	8.5	11.5	8.0	9.5	10.5	8.5	9.5	7.0	6.0	6.5
16	11.0	8.0	9.5	12.5	9.0	10.5	10.0	8.0	9.0	7.0	5.5	6.5
17	12.0	9.0	10.5	12.0	10.0	11.0	10.0	8.0	9.0	7.0	5.5	6.5
18	12.5	9.5	11.0	11.5	9.5	10.5	9.5	7.5	8.5	7.0	5.5	6.0
19	11.5	9.5	10.5	12.0	9.5	10.5	9.5	8.5	9.0	7.0	5.5	6.0
20	11.5	8.5	10.0	11.5	9.5	10.5	10.0	8.0	9.0	7.0	6.0	6.5
21	11.5	8.5	10.0	12.0	10.0	11.0	9.5	8.0	9.0	6.5	6.0	6.5
22	12.0	9.0	10.5	11.5	9.5	10.5	10.0	8.0	9.0	6.5	5.5	6.0
23	11.5	8.5	10.0	10.5	8.0	9.5	9.5	7.5	8.0	5.5	5.0	5.5
24	10.5	7.5	9.0	10.0	8.5	9.0	9.0	7.0	8.0	6.0	5.5	5.5
25	10.0	7.0	8.0	10.5	9.0	9.5	8.5	7.0	7.5	6.0	5.0	5.5
26	10.5	8.0	9.5	10.5	9.0	9.5	8.0	7.0	7.5	6.0	5.0	5.5
27	11.0	8.5	9.5	10.0	9.0	9.5	8.5	7.5	7.5	6.0	5.5	5.5
28	11.5	9.0	10.0	9.5	9.0	9.5	8.0	7.0	7.5	6.0	5.0	5.5
29	11.5	8.5	10.0	9.5	8.5	9.0	8.5	7.0	7.5	6.5	5.5	6.0
30	11.5	9.0	10.0	9.0	7.5	8.5	8.5	6.5	7.5	6.5	6.0	6.5
31	---	---	---	9.0	7.5	8.5	9.0	7.0	8.0	---	---	---
MONTH	12.5	7.0	9.4	12.5	6.5	9.5	11.0	6.5	8.6	9.0	5.0	6.2

15050000 GOLD CREEK AT JUNEAU

LOCATION.--Lat 58°18'25", long 134°24'05", in NW¹/₄ NE¹/₄ 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 mi².

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. 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 26	0500	1360	5.23	Sept 23	1545	*1460	*5.40
Sep 21	0430	1400	5.29				

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	100	59	24	21	18	19	16	186	183	157	87	22
2	76	57	44	18	17	18	51	213	209	161	85	160
3	59	42	27	e17	16	17	115	194	217	175	98	186
4	104	37	22	e15	16	16	99	183	224	123	78	86
5	72	31	20	e13	23	15	64	140	260	190	73	86
6	100	27	19	e13	21	15	47	111	264	154	71	108
7	119	26	18	e12	17	17	41	105	313	109	63	73
8	73	24	17	e11	60	44	56	115	284	129	59	44
9	55	34	16	11	149	30	56	125	217	109	58	32
10	59	27	15	13	100	25	56	125	179	123	61	26
11	43	33	15	17	78	25	55	121	143	90	75	28
12	31	344	15	14	86	20	60	134	157	90	42	86
13	33	143	14	28	72	18	58	162	179	99	35	228
14	32	87	14	128	64	16	52	189	216	106	48	103
15	26	81	14	94	47	16	39	188	175	133	60	100
16	24	71	16	56	35	15	30	168	161	103	58	66
17	23	60	24	53	27	13	27	153	186	103	41	46
18	40	47	23	121	24	12	24	154	260	84	44	35
19	119	38	63	91	29	12	22	181	317	84	41	27
20	109	35	60	108	76	11	22	253	300	100	40	412
21	70	32	53	183	104	11	23	292	280	154	34	572
22	78	30	242	171	110	10	37	248	300	119	28	435
23	98	25	192	109	75	10	50	232	284	87	19	688
24	116	25	99	78	58	10	54	284	276	136	17	461
25	505	24	74	e50	41	13	95	434	256	143	16	216
26	590	22	56	e40	31	15	128	385	220	87	26	190
27	217	21	39	e33	25	15	99	288	220	213	75	419
28	158	20	33	e28	23	17	81	220	201	434	109	210
29	100	19	31	e26	21	18	72	209	172	256	30	193
30	81	18	27	23	---	20	109	205	172	175	19	178
31	68	---	24	19	---	17	---	198	---	112	14	---
TOTAL	3378	1539	1350	1614	1463	530	1738	6195	6825	4338	1604	5516
MEAN	109	51.3	43.5	52.1	50.4	17.1	57.9	200	228	140	51.7	184
MAX	590	344	242	183	149	44	128	434	317	434	109	688
MIN	23	18	14	11	16	10	16	105	143	84	14	22
MED	76	32	24	28	35	16	54	188	218	123	48	106
AC-FT	6700	3050	2680	3200	2900	1050	3450	12290	13540	8600	3180	10940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2004, 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
MEAN	158	81.8	37.4	23.3	15.2	12.4	25.3	127	225	224	188	185																																																																													
MAX	349	206	202	170	81.4	137	91.7	220	326	364	374	302																																																																													
(WY)	2000	1947	2000	1981	1977	1947	1947	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
e Estimated

15050000 GOLD CREEK AT JUNEAU—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1916 - 2004	
ANNUAL TOTAL	30466.0		36090			
ANNUAL MEAN	83.5		98.6		109	
HIGHEST ANNUAL MEAN					155 2000	
LOWEST ANNUAL MEAN					77.5 1951	
HIGHEST DAILY MEAN	883	Sep 8	688	Sep 23	1830	Aug 12 1961
LOWEST DAILY MEAN	a1.4	Mar 13	b10	Mar 22	c0.00	Mar 4 1951
ANNUAL SEVEN-DAY MINIMUM	1.7	Mar 8	11	Mar 18	0.00	Mar 4 1951
MAXIMUM PEAK FLOW			1460	Sep 23	2950	Sep 25 1996
MAXIMUM PEAK STAGE			5.40	Sep 23	8.14	Sep 25 1996
INSTANTANEOUS LOW FLOW			8.3	Mar 8	0.00	Mar 4 1951
ANNUAL RUNOFF (AC-FT)	60430		71580		78960	
10 PERCENT EXCEEDS	197		220		264	
50 PERCENT EXCEEDS	53		60		66	
90 PERCENT EXCEEDS	7.1		16		5.0	

See Period of Record; partial years used in monthly statistics
a May have been lower during period of ice affect
b Mar. 22-24.
c No flow at times during winter

15051010 SALMON CREEK NEAR JUNEAU

LOCATION.--Lat 58°19'57", long 134°27'57", in NE¹/₄ SE¹/₄ NW¹/₄ 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 mi².

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 mi².

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	23	20	13	e13	13	14	44	45	37	20	12
2	31	21	32	e12	12	13	43	52	49	35	18	19
3	28	19	19	e11	11	12	75	48	46	39	18	27
4	29	17	16	e10	11	12	47	43	45	31	16	25
5	28	16	14	e9.4	19	11	30	35	54	41	14	23
6	29	15	13	e9.1	17	11	24	31	50	34	13	35
7	34	15	12	e9.6	14	15	23	33	64	27	12	25
8	30	14	12	e9.5	42	42	26	36	53	29	14	18
9	27	22	11	e9.5	75	27	25	37	48	29	16	16
10	30	18	10	e10	49	26	25	38	43	29	18	14
11	29	24	11	e11	45	28	23	35	39	25	21	13
12	24	159	11	12	52	19	23	35	39	23	17	18
13	23	54	11	28	34	16	22	40	41	24	16	51
14	22	40	9.7	98	28	15	21	45	49	26	16	36
15	20	41	9.6	45	23	15	18	44	39	25	17	33
16	18	34	14	27	19	14	16	41	37	25	16	26
17	16	28	27	30	17	13	15	39	41	24	15	20
18	18	22	26	60	17	11	14	40	53	20	15	17
19	24	19	63	42	21	10	13	45	59	18	15	15
20	28	17	46	54	48	9.9	13	52	56	19	16	69
21	22	17	39	76	56	9.7	13	56	51	22	14	140
22	23	18	109	62	57	9.4	17	48	51	16	13	89
23	31	16	81	46	34	9.1	20	46	51	13	12	170
24	31	16	46	32	27	9.0	25	66	51	33	12	138
25	101	15	33	27	22	15	47	86	50	28	12	68
26	110	14	26	e24	19	15	57	72	45	17	12	57
27	51	13	20	e21	17	14	38	53	42	35	15	112
28	45	12	18	e18	16	17	29	46	40	93	16	65
29	34	12	17	e16	15	17	26	47	35	54	14	52
30	28	12	17	e15	---	17	30	46	34	37	12	49
31	25	---	15	e14	---	14	---	46	---	25	14	---
TOTAL	1024	763	808.3	861.1	830	479.1	812	1425	1400	933	469	1452
MEAN	33.0	25.4	26.1	27.8	28.6	15.5	27.1	46.0	46.7	30.1	15.1	48.4
MAX	110	159	109	98	75	42	75	86	64	93	21	170
MIN	16	12	9.6	9.1	11	9.0	13	31	34	13	12	12
AC-FT	2030	1510	1600	1710	1650	950	1610	2830	2780	1850	930	2880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)#

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	61.2	30.5	26.9	19.7	21.5	16.1	23.3	47.6	54.0	43.3	37.0	61.0		
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 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1991 - 2004#
ANNUAL TOTAL	9808.6	11256.5	
ANNUAL MEAN	26.9	30.8	36.9
HIGHEST ANNUAL MEAN			48.6
LOWEST ANNUAL MEAN			29.7
HIGHEST DAILY MEAN	164	170	954
LOWEST DAILY MEAN	5.6	9.0	5.6
ANNUAL SEVEN-DAY MINIMUM	6.2	9.6	6.2
MAXIMUM PEAK FLOW		394	1930
MAXIMUM PEAK STAGE		3.13	4.65
INSTANTANEOUS LOW FLOW		7.4	b
ANNUAL RUNOFF (AC-FT)	19460	22330	26740
10 PERCENT EXCEEDS	49	53	70
50 PERCENT EXCEEDS	20	24	27
90 PERCENT EXCEEDS	8.4	12	10

See Period of Record
a From flood marks
b Undetermined, see lowest daily mean
e Estimated

15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY

LOCATION.--Lat 58°21'59", long 134°34'34", in SW¹/₄ SW¹/₄ SE¹/₄ 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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to September 2004 (discontinued). 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.

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 ft³/s; no flow observed March 2, 1989, March 5, 1996, January 15, 1997, and July 2-4,7,8,10-24,26, 2004; August 7-10,13-26,31, 2004; September 1, 2004.

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	12	4.2	3.4	e5.0	e2.8	4.1	4.2	9.4	2.0	0.11	0.25	0.00
2	9.5	3.9	8.5	e4.0	e2.7	3.6	12	9.8	2.3	0.00	0.18	0.52
3	8.3	3.5	5.0	e3.6	e2.8	3.4	32	8.6	2.2	0.00	0.43	1.3
4	8.0	3.0	3.6	e3.2	e6.0	3.3	16	8.5	1.8	0.00	0.38	1.8
5	7.0	2.6	3.1	e2.7	15	3.2	11	7.1	1.7	0.16	0.16	1.5
6	7.6	2.2	2.7	e2.5	7.7	2.9	9.7	6.2	1.4	0.12	0.10	5.9
7	6.5	2.2	2.4	e2.4	4.4	4.4	9.7	5.9	1.4	0.00	0.00	4.9
8	5.8	2.1	2.3	e2.5	8.6	9.2	14	5.9	1.2	0.00	0.00	1.3
9	6.0	4.0	2.1	e3.0	24	6.1	11	5.6	1.5	0.24	0.00	0.79
10	5.1	3.4	e2.0	e3.6	25	6.4	9.7	5.1	1.7	0.00	0.00	0.67
11	4.6	4.8	e1.9	e5.0	14	8.0	8.7	5.1	1.1	0.00	0.15	0.59
12	4.0	24	e1.9	e4.0	19	5.5	8.6	5.0	0.99	0.00	0.10	0.82
13	4.3	22	2.0	e8.0	11	4.6	8.0	4.9	1.3	0.00	0.00	10
14	4.2	12	1.7	e3.0	10	4.0	7.2	4.8	1.4	0.00	0.00	5.1
15	3.6	11	1.7	e1.3	8.1	4.5	6.3	4.6	1.1	0.00	0.00	2.4
16	3.2	8.9	3.0	e8.0	7.2	4.4	5.7	4.2	0.90	0.00	0.00	1.8
17	2.9	7.6	7.5	e1.5	6.5	3.9	5.7	3.6	0.96	0.00	0.00	1.4
18	2.8	6.3	7.4	e2.0	6.9	3.1	5.7	3.2	0.74	0.00	0.00	1.2
19	2.6	e4.0	15	e1.6	7.9	2.7	5.0	3.5	0.62	0.00	0.00	1.0
20	2.5	e3.5	14	e1.9	11	2.3	4.5	3.4	0.56	0.00	0.00	4.0
21	2.2	e3.0	12	22	13	e2.3	4.1	3.1	0.45	0.00	0.00	20
22	2.2	4.9	34	28	18	2.0	4.2	2.6	e0.25	0.00	0.00	10
23	2.2	3.8	32	21	10	1.9	4.6	2.3	0.50	0.00	0.00	28
24	2.2	3.5	19	e1.1	8.4	1.9	5.5	3.3	0.37	0.00	0.00	29
25	12	3.2	15	e7.0	7.2	5.1	9.2	5.0	0.21	0.12	0.00	9.0
26	23	2.9	11	e5.1	6.2	9.2	14	4.6	0.16	0.00	0.00	5.1
27	9.3	2.6	e8.0	e4.1	5.5	5.4	8.8	3.4	0.15	1.3	0.19	7.9
28	14	e2.4	e6.8	e3.5	5.0	5.0	7.0	2.7	0.22	3.9	1.0	5.7
29	6.4	e2.2	e6.7	e3.2	4.5	5.3	6.3	2.4	0.16	3.7	0.65	5.6
30	5.1	2.1	6.6	e3.0	---	5.3	6.9	2.1	0.12	0.98	0.14	6.6
31	4.7	---	6.0	e2.9	---	4.3	---	1.8	---	0.44	0.00	---
TOTAL	193.8	165.8	248.3	281.3	278.4	137.3	265.3	147.7	29.46	11.07	3.73	173.89
MEAN	6.25	5.53	8.01	9.07	9.60	4.43	8.84	4.76	0.98	0.36	0.12	5.80
MAX	23	24	34	30	25	9.2	32	9.8	2.3	3.9	1.0	29
MIN	2.2	2.1	1.7	2.4	2.7	1.9	4.1	1.8	0.12	0.00	0.00	0.00
AC-FT	384	329	493	558	552	272	526	293	58	22	7.4	345
CFSM	2.40	2.13	3.08	3.49	3.69	1.70	3.40	1.83	0.38	0.14	0.05	2.23
IN.	2.77	2.37	3.55	4.02	3.98	1.96	3.80	2.11	0.42	0.16	0.05	2.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)#

	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	16.1	7.99	9.99	6.77	3.74	3.15	5.01	6.65
MAX	23.2	11.2	20.8	11.3	9.60	4.74	12.1	13.7
(WY)	2003	2000	2000	1999	2004	2001	1999	1999
MIN	6.25	4.21	2.67	3.52	0.47	1.62	0.72	1.70
(WY)	2004	1999	1999	1998	1999	1998	2002	2003

e Estimated

See Period of Record; partial year used in monthly statistics

15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004#	
ANNUAL TOTAL	1797.31		1936.05			
ANNUAL MEAN	4.92		5.29		7.28	
HIGHEST ANNUAL MEAN					9.87 2000	
LOWEST ANNUAL MEAN					5.29 2004	
HIGHEST DAILY MEAN	52 Sep 27		34 Dec 22		129 Dec 28 1999	
LOWEST DAILY MEAN	a0.34 Jun 15		b0.00 Jul 2		c0.00 Mar 3 1999	
ANNUAL SEVEN-DAY MINIMUM	0.44 Jun 11		0.00 Jul 10		0.00 Mar 3 1999	
MAXIMUM PEAK FLOW			d46 Dec 22		149 Dec 28 1999	
MAXIMUM PEAK STAGE			5.41 Dec 22		7.59 Dec 28 1999	
INSTANTANEOUS LOW FLOW			f		0.00 Mar 3 1999	
ANNUAL RUNOFF (AC-FT)	3560		3840		5270	
ANNUAL RUNOFF (CFSM)	1.89		2.03		2.80	
ANNUAL RUNOFF (INCHES)	25.72		27.70		38.04	
10 PERCENT EXCEEDS	12		12		16	
50 PERCENT EXCEEDS	2.6		3.6		4.6	
90 PERCENT EXCEEDS	0.90		0.00		0.91	

See Period of Record; partial year used in monthly statistics

a June 15 and June 16

b July 2-4,7,8,10-24,26; August 7-10,13-26,31; September 1

c Mar. 3 to Mar. 9, 1999 and Apr. 8 to Apr. 18, 2002; July 2-4,7,8,10-24,26, 2004; August 7-10,13-26,31, 2004; September 1, 2004

d May have been higher during period of estimated discharge.

e Estimated

f Not determined, see lowest daily mean

15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 1999 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder with 15-minute recording interval started on July 15, 1999.

REMARKS.-- There is missing record on July 2-5,7-8,12-24, and August 8-11,14-27, because the probe came out of water. Discharges decreased to zero flow in late summer of the 2004 water year. Records represent water temperature at the sensor within 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum recorded, 18.5°C, on June 22, and 24-25, 2004 ; minimum, 0°C, many days during winters.

EXTREMES FOR CURRENT PERIOD.--

WATER TEMPERATURE: Maximum recorded, 18.5°C, on June 22, and 24-25, 2004 ; minimum, 0°C, many days during winter.

WATER TEMPERATURE, in (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	6.5	7.5	3.0	2.0	2.5	0.5	0.0	0.0	1.5	0.0	0.5
2	7.5	6.0	7.0	3.0	2.0	2.5	1.0	0.5	1.0	0.0	0.0	0.0
3	8.0	6.0	7.0	2.5	1.5	2.0	1.5	1.0	1.0	0.0	0.0	0.0
4	8.5	7.5	8.0	1.5	1.0	1.5	1.0	0.5	1.0	0.0	0.0	0.0
5	8.5	8.0	8.0	1.5	0.5	1.0	1.5	1.0	1.5	0.0	0.0	0.0
6	8.5	8.0	8.5	1.5	0.5	1.0	1.5	0.5	1.0	0.0	0.0	0.0
7	8.5	8.5	8.5	2.5	1.5	2.0	0.5	0.0	0.5	0.0	0.0	0.0
8	8.5	7.0	7.5	2.5	1.5	2.0	1.5	0.5	1.0	0.0	0.0	0.0
9	7.5	6.5	7.0	3.0	2.5	3.0	1.0	0.0	0.5	0.0	0.0	0.0
10	7.5	7.0	7.0	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
11	7.0	5.5	6.0	3.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
12	5.5	4.5	5.0	4.5	3.5	4.0	1.5	0.0	0.5	0.0	0.0	0.0
13	6.0	5.5	5.5	4.0	2.5	3.5	1.5	0.5	1.0	0.0	0.0	0.0
14	7.0	6.0	6.5	4.0	3.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
15	6.0	4.0	4.5	4.5	4.0	4.0	1.0	0.0	0.5	0.0	0.0	0.0
16	5.5	3.5	4.5	4.0	3.5	4.0	1.0	0.0	0.5	0.0	0.0	0.0
17	6.5	5.5	6.0	3.5	2.5	3.0	1.5	1.0	1.0	0.0	0.0	0.0
18	7.0	6.0	6.5	3.0	0.5	2.0	1.5	0.5	1.0	0.0	0.0	0.0
19	7.5	7.0	7.0	0.5	0.0	0.5	1.5	1.0	1.5	0.5	0.0	0.0
20	7.0	5.5	6.5	0.0	0.0	0.0	2.0	1.0	1.5	1.0	0.0	0.5
21	6.0	4.5	5.0	0.0	0.0	0.0	2.5	2.0	2.0	1.0	1.0	1.0
22	6.0	5.5	6.0	1.5	0.0	0.5	2.5	1.5	2.0	1.0	1.0	1.0
23	7.0	6.0	6.5	1.5	1.5	1.5	2.5	2.0	2.0	1.5	1.0	1.5
24	7.0	6.0	6.5	1.5	0.5	1.0	2.5	2.0	2.0	1.0	0.0	0.5
25	8.5	7.0	8.0	2.0	1.5	1.5	2.5	1.5	2.0	0.0	0.0	0.0
26	8.5	7.5	8.5	1.5	1.0	1.5	1.5	0.0	1.0	0.0	0.0	0.0
27	7.5	6.5	7.0	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
28	6.5	5.0	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	5.0	3.0	4.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
30	3.0	2.0	2.5	0.5	0.0	0.5	1.5	0.5	1.5	0.0	0.0	0.0
31	3.0	2.0	2.5	---	---	---	2.0	1.5	1.5	0.0	0.0	0.0
MONTH	8.5	2.0	6.3	4.5	0.0	1.9	2.5	0.0	0.9	1.5	0.0	0.2

15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY—Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	1.0	0.0	0.5	3.0	2.0	2.5	8.0	6.0	6.5
2	0.0	0.0	0.0	1.5	0.0	0.5	2.5	2.0	2.5	7.5	6.0	6.5
3	0.0	0.0	0.0	1.0	1.0	1.0	3.0	1.5	2.5	9.5	6.0	7.5
4	0.0	0.0	0.0	1.5	1.0	1.5	4.0	2.5	3.0	9.0	5.0	7.0
5	0.0	0.0	0.0	2.0	1.5	1.5	5.0	2.5	3.5	8.5	4.5	6.5
6	1.0	0.0	0.5	2.0	1.5	1.5	5.5	2.5	3.5	9.0	5.0	7.0
7	1.0	1.0	1.0	2.5	1.5	2.0	5.5	3.5	4.5	9.5	6.0	7.5
8	1.5	0.0	1.0	2.5	1.5	2.0	5.5	3.0	4.0	10.0	5.5	7.5
9	1.0	0.0	0.5	2.0	1.5	1.5	5.0	3.0	4.0	9.0	7.0	7.5
10	1.5	0.0	1.0	2.0	1.5	2.0	6.0	4.0	4.5	10.0	6.5	8.0
11	2.0	1.5	1.5	3.0	2.0	2.5	6.0	3.0	4.5	9.5	5.5	8.0
12	1.5	1.0	1.5	2.5	2.0	2.0	5.5	4.5	5.0	10.0	6.5	8.0
13	2.0	1.5	1.5	2.5	1.0	2.0	5.5	4.0	5.0	10.5	6.5	8.5
14	2.5	1.5	2.0	2.0	1.0	1.5	5.5	3.5	4.5	10.5	7.0	9.0
15	2.0	1.0	1.5	2.0	1.5	2.0	5.5	2.5	4.0	10.0	6.5	8.5
16	2.0	1.5	1.5	2.0	0.5	1.5	5.5	2.0	3.5	9.5	8.0	9.0
17	2.5	1.5	2.0	3.0	1.5	2.0	5.5	4.0	5.0	9.5	8.0	8.5
18	2.0	2.0	2.0	1.5	0.5	1.0	6.0	3.5	4.5	10.5	7.5	9.0
19	2.5	2.0	2.5	1.5	0.0	0.5	6.0	3.0	4.5	10.5	7.5	9.0
20	2.5	2.5	2.5	2.0	0.0	1.0	6.5	3.0	4.5	11.5	8.0	9.5
21	3.0	2.5	2.5	2.0	0.0	1.0	7.0	3.5	5.0	11.0	8.0	10.0
22	2.5	1.5	2.0	2.0	1.5	1.5	6.0	5.0	5.5	11.0	7.5	9.5
23	3.0	2.0	2.5	2.0	0.5	1.5	5.0	4.0	4.5	11.5	8.0	10.0
24	2.5	1.5	2.0	3.5	1.5	2.5	5.0	4.0	4.5	11.0	9.0	10.0
25	2.0	0.5	1.0	3.0	2.5	2.5	5.0	4.5	4.5	9.0	8.5	8.5
26	1.5	0.5	1.0	3.5	2.0	2.5	5.5	4.0	5.0	9.0	7.5	8.5
27	1.0	0.0	0.5	3.5	2.0	3.0	6.5	4.0	5.5	9.5	7.5	8.5
28	1.5	0.5	1.0	4.0	2.5	3.0	7.0	4.5	5.5	9.5	8.0	8.5
29	1.5	0.5	1.0	3.5	0.5	2.5	8.0	3.5	5.5	10.5	8.5	9.5
30	---	---	---	2.0	0.0	1.0	9.0	4.5	6.5	10.5	8.5	9.5
31	---	---	---	2.5	1.0	2.0	---	---	---	10.5	8.5	9.5
MONTH	3.0	0.0	1.2	4.0	0.0	1.7	9.0	1.5	4.4	11.5	4.5	8.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	10.5	9.0	9.5	15.0	12.0	13.5	12.5	11.5	12.0	11.5	9.5	10.5
2	9.0	8.5	9.0	---	---	---	14.5	11.0	12.5	11.0	10.0	10.5
3	11.0	7.0	9.0	---	---	---	13.5	12.0	12.5	11.0	10.5	11.0
4	11.0	8.5	10.0	---	---	---	14.0	10.5	12.0	11.0	10.0	10.5
5	10.5	9.5	10.0	---	---	---	14.0	11.0	12.5	10.5	9.5	10.0
6	12.0	9.5	10.5	13.5	12.0	12.5	15.0	12.5	13.5	9.5	9.0	9.5
7	14.0	10.0	12.0	---	---	---	14.5	13.0	13.5	9.0	8.0	8.5
8	13.0	10.5	11.5	---	---	---	---	---	---	8.5	6.5	7.5
9	11.0	9.5	10.0	15.0	12.5	13.5	---	---	---	7.5	5.5	6.5
10	11.0	9.0	10.0	14.0	13.0	13.5	---	---	---	7.0	5.0	6.0
11	11.0	9.0	10.0	14.5	12.0	13.0	---	---	---	8.0	6.5	7.0
12	12.0	9.5	11.0	---	---	---	14.0	12.0	12.5	8.0	8.0	8.0
13	11.5	10.0	11.0	---	---	---	14.0	11.5	12.5	8.5	8.0	8.0
14	11.0	9.5	10.0	---	---	---	---	---	---	9.0	8.0	8.5
15	11.0	9.5	10.0	---	---	---	---	---	---	8.5	8.0	8.0
16	13.0	8.5	10.5	---	---	---	---	---	---	8.5	7.0	7.5
17	14.0	10.0	12.0	---	---	---	---	---	---	7.5	6.0	7.0
18	15.5	11.0	13.0	---	---	---	---	---	---	7.0	5.0	6.0
19	17.0	12.5	14.5	---	---	---	---	---	---	6.0	4.5	5.5
20	17.5	13.0	15.0	---	---	---	---	---	---	8.0	6.0	7.0
21	18.0	13.0	15.0	---	---	---	---	---	---	8.5	8.0	8.5
22	18.5	13.5	15.5	---	---	---	---	---	---	8.0	8.0	8.0
23	18.0	13.5	15.5	---	---	---	---	---	---	8.5	8.0	8.0
24	18.5	14.0	16.0	---	---	---	---	---	---	8.5	8.0	8.5
25	18.5	14.0	16.0	14.0	11.0	13.0	---	---	---	8.0	7.5	7.5
26	18.0	14.5	16.5	13.5	12.5	13.0	---	---	---	8.0	7.5	7.5
27	17.0	14.0	15.0	13.5	12.0	13.0	---	---	---	8.5	7.5	8.0
28	14.5	13.0	14.0	13.0	12.5	12.5	12.0	11.5	11.5	8.0	7.0	7.5
29	15.5	13.0	14.0	12.5	12.0	12.5	12.0	10.5	11.0	8.0	7.5	7.5
30	16.5	13.0	14.5	13.5	11.5	12.5	13.0	10.0	11.0	8.0	7.5	7.5
31	---	---	---	13.5	12.0	12.5	11.5	9.5	10.5	---	---	---
MONTH	18.5	7.0	12.3	---	---	---	---	---	---	11.5	4.5	8.1

15052500 MENDENHALL RIVER NEAR AUKE BAY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004#	
ANNUAL TOTAL	463673		482522			
ANNUAL MEAN	1270		1318		1176	
HIGHEST ANNUAL MEAN					1547	
LOWEST ANNUAL MEAN					758	
HIGHEST DAILY MEAN	9780		8410		13700	
LOWEST DAILY MEAN	a46	Aug 16	63	Jul 29	19	Sep 8 1981
ANNUAL SEVEN-DAY MINIMUM	48	Mar 17	70	Mar 24	19	Mar 1 1969
MAXIMUM PEAK FLOW			9410		16000	
MAXIMUM PEAK STAGE			8.63		b11.18	
INSTANTANEOUS LOW FLOW			c62		d19	
ANNUAL RUNOFF (AC-FT)	919700		957100		851800	
ANNUAL RUNOFF (CFSM)	14.9		15.5		13.8	
ANNUAL RUNOFF (INCHES)	202.69		210.93		187.72	
10 PERCENT EXCEEDS	3370		3560		3240	
50 PERCENT EXCEEDS	488		451		395	
90 PERCENT EXCEEDS	69		109		49	

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

a Mar. 17-19

b From flood marks

c Mar. 24-25

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

15052800 MONTANA CREEK NEAR AUKE BAY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004#	
ANNUAL TOTAL	29805		33064			
ANNUAL MEAN	81.7		90.3		103	
HIGHEST ANNUAL MEAN					131 1975	
LOWEST ANNUAL MEAN					80.8 1971	
HIGHEST DAILY MEAN	629	Sep 27	938	Jan 14	1350	Sep 29 1970
LOWEST DAILY MEAN	13	Mar 13	a11	Jan 7	3.4	Feb 8 1972
ANNUAL SEVEN-DAY MINIMUM	14	Mar 9	12	Jan 4	3.5	Jan 13 1974
MAXIMUM PEAK FLOW			1740	Sep 23	3800	Oct 20 1998
MAXIMUM PEAK STAGE			15.62	Sep 23	17.36	Oct 20 1998
INSTANTANEOUS LOW FLOW			b		3.2	Feb 8 1972
ANNUAL RUNOFF (AC-FT)	59120		65580		74360	
ANNUAL RUNOFF (CFSM)	5.79		6.41		7.28	
ANNUAL RUNOFF (INCHES)	78.63		87.23		98.91	
10 PERCENT EXCEEDS	159		174		220	
50 PERCENT EXCEEDS	56		61		74	
90 PERCENT EXCEEDS	25		23		15	

See Period of Record, partial years used in monthly statistics

a Jan 7 to 9

b Not determined, see lowest daily mean

e Estimated

15053200 DUCK CREEK BELOW NANCY STREET NEAR AUKE BAY

LOCATION.--Lat 58°22'31", long 134°34'38", in NW¹/₄ SW¹/₄ NE¹/₄ sec. 30, T. 40 S., R. 66 E. (Juneau B-2 NW), Hydrologic Unit 19010301, City and Borough of Juneau, on right bank, 50 ft south of intersection of Nancy Street and Mendenhall Loop Road, 0.4 mi north of intersection of Egan Drive and Mendenhall Loop Road, and 1.44 mi upstream from mouth.

DRAINAGE AREA.-- 1.30 mi².

PERIOD OF RECORD.--December 1993 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 21.87 ft above sea level, determined by levels survey.

REMARKS.--No estimated daily discharge. Records are good, except for daily discharges less than 1 ft³/s, which are fair.

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	6.0	3.6	2.7	3.0	2.2	2.6	3.8	2.3	0.81	0.63	1.0	0.63
2	5.2	3.1	8.0	2.3	2.1	2.4	7.8	2.1	0.96	0.63	0.96	0.74
3	4.6	2.7	6.1	2.0	1.9	2.4	15	1.9	1.0	0.63	1.1	1.4
4	5.5	2.3	4.5	1.8	2.0	2.4	9.8	1.8	0.84	0.63	1.0	1.6
5	6.1	2.1	3.6	1.6	11	2.5	6.9	1.6	0.74	0.68	0.89	1.8
6	7.0	1.9	3.0	1.5	9.2	2.4	5.5	1.5	0.72	0.66	0.80	2.7
7	6.9	1.8	2.6	1.4	6.3	4.2	4.9	1.4	0.69	0.63	0.78	2.6
8	6.5	1.7	2.4	1.5	9.3	6.6	6.5	1.3	0.67	0.63	0.73	2.0
9	5.8	5.2	2.1	1.4	15	5.6	4.8	1.3	0.73	0.62	0.68	1.6
10	5.5	4.1	1.9	1.5	14	6.2	3.5	1.2	0.79	0.53	0.63	1.4
11	5.5	4.9	1.9	2.1	8.7	7.5	3.2	1.1	0.75	0.51	0.80	1.2
12	5.0	13	1.9	2.0	11	5.4	3.0	0.93	0.74	0.50	0.79	1.4
13	5.5	13	2.1	6.0	6.8	4.5	2.8	0.85	0.72	0.39	0.74	3.8
14	5.9	10	1.9	19	5.4	3.9	2.2	0.78	0.75	0.38	0.67	3.1
15	5.2	8.9	1.8	11	4.6	4.4	2.5	0.74	0.72	0.35	0.62	2.6
16	4.9	7.3	2.7	5.5	4.2	4.2	2.4	0.74	0.68	0.31	0.58	2.3
17	4.6	6.3	7.0	4.7	3.8	3.9	2.6	0.77	0.67	0.31	0.52	1.9
18	4.5	5.1	7.3	13	3.9	3.6	2.4	0.71	0.63	0.31	0.54	1.7
19	4.3	4.3	12	8.4	4.5	3.1	2.0	0.68	0.55	0.24	0.57	1.4
20	4.5	3.5	11	16	6.8	2.7	1.9	0.67	0.50	0.22	0.58	3.4
21	4.1	3.1	9.1	14	7.1	2.5	1.6	0.65	0.52	0.28	0.54	7.8
22	3.9	3.5	14	15	9.2	2.3	1.6	0.62	0.53	0.31	0.48	5.6
23	4.2	3.4	15	10	6.5	2.2	1.4	0.66	0.58	0.29	0.44	9.2
24	4.3	3.5	11	7.0	5.3	2.0	2.4	0.90	0.58	0.33	0.36	10
25	11	3.1	8.2	5.1	4.4	3.1	4.7	1.3	0.60	0.55	0.35	6.3
26	14	2.7	6.6	4.2	3.9	5.0	6.7	1.4	0.58	0.54	0.35	4.6
27	9.0	2.5	5.3	3.6	3.6	4.4	4.8	1.2	0.62	0.65	0.54	4.6
28	9.3	2.3	4.3	3.1	3.2	4.2	3.6	1.1	0.64	2.0	0.67	4.1
29	6.3	2.3	3.9	2.8	2.9	4.3	3.0	0.98	0.63	1.9	0.73	4.4
30	5.0	2.1	3.8	2.5	---	4.7	2.6	0.83	0.63	1.6	0.74	4.6
31	4.2	---	3.4	2.4	---	4.2	---	0.77	---	1.2	0.69	---
TOTAL	184.3	133.3	171.1	175.4	178.8	119.4	125.9	34.78	20.57	19.44	20.87	100.47
MEAN	5.95	4.44	5.52	5.66	6.17	3.85	4.20	1.12	0.69	0.63	0.67	3.35
MAX	14	13	15	19	15	7.5	15	2.3	1.0	2.0	1.1	10
MIN	3.9	1.7	1.8	1.4	1.9	2.0	1.4	0.62	0.50	0.22	0.35	0.63
AC-FT	366	264	339	348	355	237	250	69	41	39	41	199
CFSM	4.57	3.42	4.25	4.35	4.74	2.96	3.23	0.86	0.53	0.48	0.52	2.58
IN.	5.27	3.81	4.90	5.02	5.12	3.42	3.60	1.00	0.59	0.56	0.60	2.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)#

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
MEAN	9.04	4.85	5.31	3.17	2.73	2.48	2.80	2.47	2.03	2.53	3.66	7.66
MAX	18.1	10.3	12.2	5.66	6.17	5.08	6.16	4.97	3.47	4.23	7.66	14.5
(WY)	2000	2000	2000	2004	2004	1994	1999	1999	1999	1997	2002	2000
MIN	5.29	2.36	1.95	0.85	0.79	0.94	0.64	0.86	0.69	0.63	0.67	3.35
(WY)	1998	1996	1996	1997	1999	1995	2003	2002	2004	2004	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1994 - 2004#
ANNUAL TOTAL	1247.72	1284.33	
ANNUAL MEAN	3.42	3.51	4.06
HIGHEST ANNUAL MEAN			6.90
LOWEST ANNUAL MEAN			3.26
HIGHEST DAILY MEAN	22 Sep 27	19 Jan 14	68 Dec 28 1999
LOWEST DAILY MEAN	a0.31 Apr 9	0.22 Jul 20	0.19 Mar 15 2000
ANNUAL SEVEN-DAY MINIMUM	0.34 Apr 7	0.28 Jul 17	0.26 Mar 10 2000
MAXIMUM PEAK FLOW		27 Jan 14	80 Dec 28 1999
MAXIMUM PEAK STAGE		5.76 Jan 14	b7.59 Sep 25 1996
INSTANTANEOUS LOW FLOW	c	0.18 Jul 20	d0.18 Mar 8 1999
ANNUAL RUNOFF (AC-FT)	2470	2550	2940
ANNUAL RUNOFF (CFSM)	2.63	2.70	3.12
ANNUAL RUNOFF (INCHES)	35.70	36.75	42.40
10 PERCENT EXCEEDS	8.0	7.9	8.5
50 PERCENT EXCEEDS	2.2	2.4	2.6
90 PERCENT EXCEEDS	0.72	0.59	0.89

See period of record; partial years used in monthly statistics

a Apr. 9-11

b Backwater caused by culvert, which was removed Apr. 1998

c Undetermined, see lowest daily mean

d Mar. 8, 1999 and Mar. 14 and 15, 2000; and Jul. 20, 2004

15055500 ANTLER RIVER BELOW ANTLER LAKE NEAR AUKE BAY

LOCATION.--Lat 58°51'07", long 134°42'31", in NE¹/₄ SE¹/₄ NE¹/₄ 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 mi², 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.

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	224	97	29	39	e34	e39	35	128	228	356	192	111
2	193	84	38	35	e32	33	46	165	230	332	168	112
3	173	75	40	32	e31	31	89	182	222	317	166	161
4	169	68	37	29	e29	29	102	195	230	292	165	193
5	164	60	35	27	e32	28	94	186	267	265	168	200
6	150	56	33	25	e35	27	86	172	328	249	175	225
7	147	46	30	24	e47	28	79	165	433	232	178	204
8	144	39	29	24	e68	34	78	162	497	227	176	158
9	127	40	27	24	e96	38	76	164	415	233	176	127
10	115	39	26	23	e120	40	72	162	342	236	182	105
11	105	37	24	22	e150	44	68	161	283	240	201	89
12	92	73	24	21	e140	43	67	170	251	229	189	84
13	82	96	23	22	e130	41	65	191	257	229	169	99
14	74	89	22	28	e110	38	64	224	293	236	171	107
15	67	92	22	33	e100	37	61	242	296	246	190	100
16	61	88	24	33	e93	36	57	244	280	248	207	90
17	56	79	26	35	e86	34	53	233	288	245	221	80
18	54	69	29	44	e78	32	50	216	348	220	219	71
19	55	59	37	50	e74	30	47	228	460	201	203	64
20	56	52	47	54	e70	28	44	267	530	194	188	64
21	56	46	53	63	e75	27	43	319	536	187	173	213
22	59	44	125	68	e79	26	44	316	515	186	172	302
23	69	41	156	68	e77	25	51	300	509	184	155	429
24	75	39	135	62	e70	25	52	301	504	195	139	695
25	122	36	111	e58	e64	24	61	327	500	200	125	489
26	236	34	91	e54	e57	25	90	337	468	180	116	326
27	246	32	75	e50	e52	26	101	321	423	165	141	407
28	198	30	63	e47	e46	29	97	285	381	237	151	348
29	160	29	54	e42	e42	32	92	259	354	313	141	249
30	134	28	49	e39	---	37	96	250	358	281	128	194
31	113	---	43	e37	---	37	---	234	---	229	119	---
TOTAL	3776	1697	1557	1212	2117	1003	2060	7106	11026	7384	5264	6096
MEAN	122	56.6	50.2	39.1	73.0	32.4	68.7	229	368	238	170	203
MAX	246	97	156	68	150	44	102	337	536	356	221	695
MIN	54	28	22	21	29	24	35	128	222	165	116	64
AC-FT	7490	3370	3090	2400	4200	1990	4090	14090	21870	14650	10440	12090
CFSM	4.68	2.18	1.93	1.50	2.81	1.24	2.64	8.82	14.1	9.16	6.53	7.82
IN.	5.40	2.43	2.23	1.73	3.03	1.44	2.95	10.17	15.78	10.56	7.53	8.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)#

	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	165	65.3	69.3	42.5	31.5	21.5	42.4	150
MAX	240	97.9	134	69.5	73.0	32.4	68.7	229
(WY)	1999	2003	2000	2003	2004	2004	2004	2004
MIN	104	39.4	30.6	21.2	11.5	14.6	14.5	90.1
(WY)	1998	2002	2002	1999	1999	1999	2002	2001

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1997 - 2004#

ANNUAL TOTAL	40892	50298	
ANNUAL MEAN	112	137	133
HIGHEST ANNUAL MEAN			147
LOWEST ANNUAL MEAN			121
HIGHEST DAILY MEAN	467	Aug 17	695
LOWEST DAILY MEAN	a14	Mar 11	21
ANNUAL SEVEN-DAY MINIMUM	14	Mar 11	23
MAXIMUM PEAK FLOW			740
MAXIMUM PEAK STAGE			32.89
INSTANTANEOUS LOW FLOW			c21
ANNUAL RUNOFF (AC-FT)	81110	99770	96500
ANNUAL RUNOFF (CFSM)	4.31	5.29	5.12
ANNUAL RUNOFF (INCHES)	58.51	71.97	69.61
10 PERCENT EXCEEDS	227	297	304
50 PERCENT EXCEEDS	91	92	90
90 PERCENT EXCEEDS	18	29	19

See period of record; partial years used in monthly statistics
a Mar. 11-13, 15-17, and 20
b From rating curve extended above 600 cfs on basis of slope-area measurement at gage height 34.07 ft.
c Dec. 14, 15, and Jan. 11-13
e Estimated

15056030 KAKUHAN CREEK NEAR HAINES

LOCATION.--Lat 59°00'19", long 135°11'02", in SW¹/₄ NE¹/₄ SE¹/₄ 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 mi².

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 1997 to May 15,2003, at a site 300 ft down stream at a different datum.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 6	0115	*276	*12.37	Jun. 30	0700	51	11.47
Jun. 8	0030	54	11.48				

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	20	4.5	1.0	e0.57	e0.49	1.1	0.49	15	14	36	17	10
2	19	3.9	1.4	e0.54	e0.47	1.5	1.7	15	14	29	16	15
3	21	3.6	1.0	e0.52	e0.46	0.55	9.4	15	13	26	18	18
4	25	3.0	0.90	e0.50	e0.43	0.57	2.4	17	15	25	19	13
5	28	2.9	e0.77	e0.48	e0.42	0.56	0.82	13	20	27	20	12
6	52	2.6	e0.72	e0.46	e7.0	0.54	0.72	12	27	26	21	8.3
7	33	2.1	e0.68	e0.44	e7.4	0.59	1.3	13	35	26	21	4.8
8	23	1.9	e0.65	e0.43	e4.8	2.1	2.0	14	33	24	20	3.5
9	12	1.9	e0.62	e0.43	e2.9	0.83	1.9	13	23	24	19	3.4
10	9.6	1.9	e0.63	e0.44	e2.3	0.72	2.0	11	22	23	20	2.2
11	7.5	1.9	0.63	e0.46	e2.0	0.74	2.6	12	17	22	22	1.9
12	5.8	3.1	0.63	e0.60	e1.7	0.61	2.5	14	16	23	19	6.1
13	5.4	2.0	0.62	e0.51	e1.5	0.55	1.4	18	18	23	19	7.1
14	5.2	1.9	0.59	e0.63	e1.4	0.51	1.4	21	17	25	21	2.9
15	4.9	1.9	0.60	e2.5	e1.3	0.50	1.1	20	16	26	23	1.9
16	4.3	1.9	0.64	e8.0	e1.2	0.50	1.1	17	15	26	25	1.5
17	4.1	e1.7	0.73	e4.8	1.0	0.48	0.92	15	17	23	26	1.2
18	5.0	e1.6	0.70	e2.9	1.1	e0.46	0.73	15	28	20	24	1.2
19	5.1	e1.5	1.9	e1.6	1.2	e0.44	0.68	18	34	21	22	1.0
20	4.5	e1.4	1.2	e0.97	1.9	e0.42	0.66	23	32	21	19	8.4
21	4.3	e1.3	2.8	e3.0	3.7	e0.40	1.1	26	31	21	20	19
22	4.6	e1.2	12	2.3	4.0	e0.39	2.2	23	32	23	19	7.0
23	4.9	e1.1	5.8	0.96	3.1	e0.38	1.9	21	33	24	15	19
24	5.7	e1.1	2.2	e0.85	2.2	0.47	1.2	24	33	24	12	12
25	17	1.0	1.1	e0.78	1.7	0.52	5.7	27	32	22	11	5.6
26	25	e1.0	e0.87	e0.72	1.4	0.51	7.0	22	31	19	15	12
27	11	e0.97	e0.73	e0.68	1.1	0.52	2.5	21	29	21	16	16
28	7.0	e0.94	e0.63	e0.63	e0.80	0.66	1.9	18	30	26	15	8.0
29	5.5	e0.90	e0.56	e0.58	0.67	0.66	3.6	18	33	24	13	5.4
30	5.2	0.88	e0.60	e0.55	---	0.56	10	17	37	21	14	4.8
31	4.8	---	e0.60	e0.52	---	0.50	---	14	---	19	12	---
TOTAL	389.4	57.59	44.50	39.35	59.64	19.84	72.92	542	747	740	573	232.2
MEAN	12.6	1.92	1.44	1.27	2.06	0.64	2.43	17.5	24.9	23.9	18.5	7.74
MAX	52	4.5	12	8.0	7.4	2.1	10	27	37	36	26	19
MIN	4.1	0.88	0.56	0.43	0.42	0.38	0.49	11	13	19	11	1.0
AC-FT	772	114	88	78	118	39	145	1080	1480	1470	1140	461
CFSM	8.21	1.25	0.94	0.83	1.34	0.42	1.59	11.4	16.3	15.6	12.1	5.06
IN.	9.47	1.40	1.08	0.96	1.45	0.48	1.77	13.18	18.16	17.99	13.93	5.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)#

	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	11.1	3.61	3.07	1.50	1.18	0.96	2.43	9.49
MAX	18.4	8.35	5.89	2.94	2.06	1.76	4.47	17.5
(WY)	2003	2003	2003	2003	2004	1999	2003	2003
MIN	4.70	1.72	0.89	0.88	0.58	0.50	0.70	4.87
(WY)	1998	2002	2002	2002	2002	2002	2001	2000

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

15056030 KAKUHAN CREEK NEAR HAINES—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004#	
ANNUAL TOTAL	4580.43		3517.44			
ANNUAL MEAN	12.5		9.61		11.0	
HIGHEST ANNUAL MEAN					14.0 2003	
LOWEST ANNUAL MEAN					9.61 2004	
HIGHEST DAILY MEAN	90	Aug 15	52	Oct 6	155	Aug 13 2002
LOWEST DAILY MEAN	0.56	Dec 29	0.38	Mar 23	0.36	Feb 24 2001
ANNUAL SEVEN-DAY MINIMUM	0.62	Dec 9	0.42	Mar 18	0.41	Feb 19 2001
MAXIMUM PEAK FLOW			a276	Oct 6	b415	Aug 31 1998
MAXIMUM PEAK STAGE			12.37	Oct 6	c8.77	Aug 31 1998
ANNUAL RUNOFF (AC-FT)	9090		6980		8010	
ANNUAL RUNOFF (CFSM)	8.20		6.28		7.22	
ANNUAL RUNOFF (INCHES)	111.37		85.52		98.13	
10 PERCENT EXCEEDS	35		24		30	
50 PERCENT EXCEEDS	4.5		4.4		4.3	
90 PERCENT EXCEEDS	0.75		0.55		0.71	

See period of Record; partial years used in monthly statistics

a From a rating curve extended above 33 ft³/s

b From rating curve extended above 51 ft³/s

c At site 300 ft. downstream, at different datum.

15056030 KAKUHAN CREEK NEAR HAINES—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 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 October 22. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature. Sensor was moved upstream 200ft on May 15, 2003.

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, 15.5°C, August 16; minimum, 0.0°C, on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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)
OCT							
22...	1430	23.0	3.0	11.00	4.7	5.5	6.5
22...	1431	23.0	6.0	11.00	4.7	5.5	6.5
22...	1432	23.0	9.0	11.00	4.7	5.5	6.5
22...	1433	23.0	12.0	11.00	4.7	5.5	6.5
22...	1434	23.0	15.0	11.00	4.7	5.5	6.5
22...	1435	23.0	18.0	11.00	4.7	5.5	6.5
22...	1436	23.0	21.0	11.00	4.7	5.5	6.5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	11.5	7.5	9.0	4.0	0.5	2.5	0.5	0.0	0.5	0.0	0.0	0.0
2	11.0	7.5	8.5	3.0	1.5	2.5	0.5	0.0	0.5	0.0	0.0	0.0
3	10.0	7.5	8.5	2.5	1.0	1.5	0.5	0.0	0.5	0.0	0.0	0.0
4	9.0	8.0	8.5	1.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
5	8.5	7.0	7.5	1.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
6	8.5	6.5	7.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7.5	6.5	7.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
8	7.5	5.0	6.0	3.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
9	7.0	5.0	6.0	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
10	6.0	4.5	5.0	2.5	1.5	2.0	0.0	0.0	0.0	0.5	0.0	0.0
11	5.5	3.5	4.5	3.0	1.0	2.0	0.0	0.0	0.0	0.5	0.0	0.5
12	6.0	3.0	4.5	4.5	3.0	4.0	0.5	0.0	0.5	0.5	0.5	0.5
13	5.5	4.5	5.0	3.5	1.5	2.5	1.0	0.5	0.5	0.5	0.0	0.0
14	5.5	4.0	5.0	2.5	1.5	2.0	0.5	0.5	0.5	0.5	0.0	0.0
15	5.0	3.0	3.5	3.5	2.5	3.0	0.5	0.0	0.5	0.0	0.0	0.0
16	4.0	3.0	3.5	2.5	0.0	1.0	1.0	0.0	0.5	0.0	0.0	0.0
17	5.0	4.0	4.0	0.0	0.0	0.0	1.0	0.5	1.0	0.0	0.0	0.0
18	6.0	4.5	5.5	0.0	0.0	0.0	1.0	0.0	0.5	0.0	0.0	0.0
19	6.5	5.5	6.0	0.0	0.0	0.0	1.0	0.0	0.5	0.0	0.0	0.0
20	7.0	5.0	6.0	0.0	0.0	0.0	1.0	0.5	1.0	0.0	0.0	0.0
21	5.5	4.0	5.0	0.0	0.0	0.0	1.0	0.0	0.5	0.5	0.0	0.0
22	5.5	4.5	5.0	0.0	0.0	0.0	2.5	0.5	2.0	1.0	0.0	0.5
23	5.5	4.5	5.0	0.0	0.0	0.0	2.0	1.5	1.5	1.0	0.0	0.5
24	5.0	4.5	4.5	0.5	0.0	0.0	1.5	1.0	1.5	0.0	0.0	0.0
25	7.5	4.5	7.0	0.0	0.0	0.0	1.5	0.5	1.0	0.0	0.0	0.0
26	6.5	5.0	6.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
27	5.5	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	4.5	2.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	1.0	0.0	0.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	11.5	0.0	5.3	4.5	0.0	1.0	2.5	0.0	0.4	1.0	0.0	0.1

15056030 KAKUHAN CREEK NEAR HAINES—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
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	5.5	4.5	5.0
2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.5	5.5	4.0	5.0
3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	1.5	7.5	4.0	5.0
4	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.5	2.0	6.0	3.5	4.5
5	0.0	0.0	0.0	0.5	0.0	0.0	2.5	1.5	2.0	6.0	3.0	4.5
6	0.5	0.0	0.0	0.5	0.0	0.5	3.5	1.5	2.5	6.5	3.5	4.5
7	0.5	0.0	0.5	1.0	0.0	0.5	3.5	2.0	3.0	7.0	4.0	5.0
8	0.5	0.0	0.5	1.0	0.0	0.0	4.0	2.0	2.5	7.5	4.0	5.0
9	1.0	0.0	0.5	1.0	0.0	0.5	3.0	2.0	2.5	5.5	4.0	5.0
10	1.0	0.5	1.0	1.5	1.0	1.0	4.0	2.5	3.0	7.5	4.0	5.0
11	1.5	1.0	1.0	2.0	1.0	1.5	4.0	1.5	2.5	7.5	4.0	5.5
12	1.5	1.0	1.0	2.0	0.5	1.5	3.0	2.5	3.0	8.0	4.0	5.5
13	1.5	1.0	1.5	1.5	0.5	1.0	4.0	2.5	3.0	8.0	4.5	6.0
14	1.5	1.0	1.5	1.0	0.0	0.5	3.0	2.0	2.5	8.0	4.5	6.0
15	1.0	0.5	1.0	1.5	1.0	1.0	3.5	1.5	2.0	8.0	4.5	5.5
16	0.5	0.5	0.5	2.0	1.0	1.0	3.0	1.0	2.0	7.5	5.0	6.0
17	0.5	0.5	0.5	1.5	0.0	1.0	3.0	2.0	2.5	8.0	4.5	6.0
18	1.5	0.0	0.5	0.0	0.0	0.0	3.5	2.0	2.5	8.0	4.5	6.0
19	1.5	1.5	1.5	0.0	0.0	0.0	3.5	1.5	2.5	9.0	5.0	6.5
20	2.0	1.5	1.5	0.0	0.0	0.0	4.0	1.5	2.5	9.0	5.0	6.5
21	2.0	1.5	2.0	0.0	0.0	0.0	4.5	2.0	3.0	7.5	4.5	5.5
22	2.5	1.5	2.0	0.0	0.0	0.0	3.5	2.5	3.0	8.0	4.5	6.0
23	2.0	1.5	2.0	0.0	0.0	0.0	4.0	2.5	3.0	8.5	4.5	6.0
24	2.0	1.5	1.5	0.5	0.0	0.0	3.5	2.5	3.0	6.5	6.0	6.0
25	1.5	1.0	1.0	1.5	0.5	1.0	3.5	2.5	3.0	6.5	5.0	5.5
26	1.0	0.5	0.5	2.0	1.0	1.5	4.0	2.0	3.5	8.0	5.0	6.0
27	0.5	0.0	0.0	2.0	1.5	1.5	5.0	2.5	3.5	7.5	4.5	6.0
28	0.5	0.0	0.0	1.5	0.0	1.0	5.5	3.0	4.0	8.5	4.5	6.0
29	0.5	0.0	0.5	1.5	0.5	1.5	6.5	3.0	4.0	7.5	5.5	6.5
30	---	---	---	0.5	0.0	0.5	7.5	4.0	5.0	8.0	4.5	6.0
31	---	---	---	0.5	0.0	0.0	---	---	---	8.0	5.5	6.5
MONTH	2.5	0.0	0.8	2.0	0.0	0.5	7.5	0.0	2.6	9.0	3.0	5.6
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.5	5.5	6.5	9.5	8.0	9.0	11.0	9.0	9.5	12.0	7.5	9.0
2	6.5	5.0	5.5	12.5	8.5	10.0	10.5	8.0	9.5	10.0	8.5	9.0
3	9.5	4.5	6.5	10.0	9.0	9.5	10.5	9.0	9.5	9.5	7.5	8.5
4	9.5	6.0	7.5	11.5	8.5	9.5	13.5	8.0	10.5	9.0	7.5	8.0
5	9.0	7.0	7.5	11.0	8.0	9.0	14.0	9.0	11.0	7.5	6.0	6.5
6	12.5	6.5	9.0	12.0	8.0	9.5	14.0	9.5	11.0	7.5	6.0	6.5
7	11.0	7.0	8.5	11.0	8.0	9.5	14.0	9.0	11.0	7.0	4.0	5.5
8	7.0	6.0	6.5	13.0	8.5	10.5	14.0	9.5	11.5	7.5	4.0	5.5
9	7.0	5.5	6.0	13.0	9.0	10.5	14.5	9.5	11.5	7.5	4.0	5.5
10	7.0	5.0	5.5	10.0	9.0	10.0	14.0	10.0	11.5	7.0	4.0	5.5
11	7.5	5.0	6.5	13.0	8.5	10.5	12.0	9.0	10.5	7.0	5.5	6.0
12	9.5	6.0	7.5	14.0	9.0	11.0	12.5	8.0	10.0	7.5	6.5	7.0
13	9.5	6.0	8.0	14.0	9.0	11.5	14.0	8.5	11.0	7.5	6.5	7.0
14	7.5	6.5	7.0	14.5	10.0	12.0	15.0	9.5	12.0	8.0	6.5	7.0
15	8.0	6.5	7.0	15.0	10.0	12.0	14.5	10.5	12.0	8.0	6.5	7.0
16	10.0	5.5	7.5	15.0	9.5	11.5	15.5	10.5	12.5	8.0	5.5	6.5
17	12.0	6.5	9.0	11.5	9.5	10.5	14.5	10.5	12.0	7.0	5.0	6.0
18	12.5	7.5	9.5	11.5	9.5	10.5	12.0	10.5	11.5	7.0	4.5	5.5
19	12.5	7.5	9.5	13.5	9.0	10.5	12.0	10.5	11.0	6.5	4.5	5.5
20	12.0	7.5	9.0	13.5	10.0	11.0	13.5	10.0	11.0	7.5	6.0	6.5
21	12.5	7.5	9.5	12.5	10.5	11.5	13.5	9.5	11.5	9.0	6.5	7.5
22	12.5	7.5	9.5	12.5	9.5	10.5	11.0	8.0	9.5	7.0	6.0	6.5
23	13.0	8.0	10.0	12.5	9.5	10.5	11.5	7.0	9.0	8.0	6.5	7.0
24	13.5	8.5	10.5	11.0	9.0	10.0	12.0	8.0	9.5	7.5	5.5	6.5
25	13.5	8.5	10.5	10.5	8.5	9.5	11.0	8.5	9.5	6.5	4.5	5.5
26	13.0	8.5	10.5	10.0	8.0	9.0	11.0	9.5	10.0	7.0	6.0	6.5
27	10.5	9.0	10.0	10.5	9.5	10.0	10.0	9.0	9.5	7.5	5.0	6.5
28	10.0	8.5	9.0	11.5	9.5	10.5	10.5	8.5	9.0	6.5	5.0	6.0
29	12.5	8.5	10.0	10.0	8.5	9.0	11.5	8.0	9.5	7.5	6.5	7.0
30	10.0	9.0	9.5	11.5	8.0	9.5	12.5	7.5	9.5	8.0	7.0	7.5
31	---	---	---	11.0	8.5	9.5	12.0	7.5	9.0	---	---	---
MONTH	13.5	4.5	8.3	15.0	8.0	10.2	15.5	7.0	10.5	12.0	4.0	6.7

SOUTHEAST ALASKA

15056210 TAIYA RIVER NEAR SKAGWAY

LOCATION.--Lat 59°30'43", long 135°20'40", in SW¹/₄ NE¹/₄ SE¹/₄ 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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- October 1969 to November 1977; October 2003 to September 2004.

GAGE.--Water-stage recorder.

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

EXTREMES OUTSIDE PERIOD OF RECORD --Flood of September 1967 overflowed banks and probably reached a peak discharge of over 25,000 ft³/s.

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	e2000	362	e110	e103	e77	e135	e90	1250	e1800	e4200	e3000	e2300
2	e1700	326	e220	e97	e75	e130	118	1440	e1700	e4100	e2500	e2200
3	e1700	295	e190	e90	e75	123	363	1360	e1700	e4000	e2750	e3000
4	e1800	266	e150	e85	e75	116	337	1560	e1650	e3900	e3000	e4000
5	e1900	e250	e130	e80	e135	113	237	1320	e1800	e3900	e3200	e2000
6	e1800	e240	e115	e77	e175	108	195	1210	e2700	e3850	e3400	1250
7	e1900	234	e105	e74	e140	110	190	1310	e3450	e3800	e3300	938
8	e1500	218	e96	e72	e110	124	224	1400	e4720	e3750	e3250	774
9	e1300	237	e94	e70	e400	132	229	1460	e5530	e3700	e3200	732
10	e1100	215	e93	e68	e325	130	219	1370	e4850	e3600	e3300	718
11	e920	200	e95	e66	e260	167	238	1390	e3900	e3550	e3350	672
12	764	327	e98	e65	e225	150	240	1590	e3090	e3800	e3500	782
13	649	307	e105	e73	e200	130	229	1910	e2780	e4100	e3700	1290
14	564	272	e109	e82	e185	119	249	2230	e2870	e5000	e4000	1270
15	496	293	e112	e93	e175	116	240	2260	e3280	e5100	e5000	1090
16	445	277	130	e105	168	111	232	2160	e3310	e5100	e5000	833
17	405	e225	142	e120	147	106	223	2110	e3760	e3900	e4620	660
18	396	e170	143	e140	137	101	219	2030	e3840	e3600	e4300	533
19	454	e120	144	e130	143	e95	216	2280	e4600	e3250	e4000	463
20	524	e110	162	e150	195	e90	219	2730	e6010	e3200	e3800	673
21	460	e100	155	e168	298	e85	235	2680	e6870	e3600	e3700	2390
22	427	e96	439	e173	368	e82	271	2530	e6960	e4000	e3600	e4000
23	481	e97	606	e165	281	e79	320	2470	e6690	e4300	e3300	e3100
24	438	e103	363	e145	233	e76	315	e2600	e6610	e3800	e2900	2320
25	1250	e120	260	e125	202	e80	406	e2500	e5310	e3400	e2600	1620
26	1790	e105	e220	e113	e185	e83	571	e2500	e4600	e3000	e2500	1620
27	1260	e92	e180	e100	e165	e95	549	e2600	e4400	e2800	e2800	2340
28	847	e92	e160	e95	e155	e100	537	e2400	e4500	e4000	e3300	1990
29	592	e95	e140	e88	e145	120	581	e2100	e4600	e4800	e3200	1870
30	464	e100	e130	e83	---	113	814	e2000	e4500	e4000	e2700	1840
31	401	---	e110	e79	---	102	---	e1900	---	e3400	e2500	---
TOTAL	30727	5944	5306	3174	5454	3421	9106	60650	122380	120500	105270	49268
MEAN	991	198	171	102	188	110	304	1956	4079	3887	3396	1642
MAX	2000	362	606	173	400	167	814	2730	6960	5100	5000	4000
MIN	396	92	93	65	75	76	90	1210	1650	2800	2500	463
AC-FT	60950	11790	10520	6300	10820	6790	18060	120300	242700	239000	208800	97720
CFSM	5.54	1.11	0.96	0.57	1.05	0.62	1.70	10.9	22.8	21.7	19.0	9.17
IN.	6.39	1.24	1.10	0.66	1.13	0.71	1.89	12.60	25.43	25.04	21.88	10.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)#

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	2000	2001	2002	2003	2004
MEAN	793	384	148	85.1	106	77.2	148	832	2267	3570	3473	2009			
MAX	1535	805	330	112	191	139	304	1956	4079	4558	4776	3131			
(WY)	1975	1970	1970	1970	1977	1970	2004	2004	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 WATER YEAR

WATER YEARS 1970 - 2004#

ANNUAL TOTAL	521200														
ANNUAL MEAN	1424									1168					
HIGHEST ANNUAL MEAN										1424		2004			
LOWEST ANNUAL MEAN										880		1973			
HIGHEST DAILY MEAN					6960		Jun 22			9620		Sep 13 1975			
LOWEST DAILY MEAN					65		Jan 12			a16		Mar 30 1974			
ANNUAL SEVEN-DAY MINIMUM					70		Jan 7			17		Mar 27 1974			
MAXIMUM PEAK FLOW					b					11500		Sep 27 1976			
MAXIMUM PEAK STAGE					c					18.43		Sep 27 1976			
ANNUAL RUNOFF (AC-FT)	1034000									846200					
ANNUAL RUNOFF (CFSM)					7.96					6.53					
ANNUAL RUNOFF (INCHES)					108.32					88.66					
10 PERCENT EXCEEDS					3900					3400					
50 PERCENT EXCEEDS					457					350					
90 PERCENT EXCEEDS					95					60					

See Period of Record; partial years used in monthly statistics

a Mar. 30 and 31

b Not determined; see highest daily mean

c Not determined

e Estimated

15056210 TAIYA RIVER NEAR SKAGWAY—Continued

WATER-QUALITY RECORDS

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

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 September 2004.

INSTRUMENTATION.--Electronic water temperature recorder, recorder set at 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 April 6, 2004. No variation was found within the cross section, or between mean stream temperature and temperature at the sensor. Missing record December 1-14, and May 24 to June 24 due to recorder malfunction.

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, 8.5°C, July 16 and 19, but may have been higher during period of missing record; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper- ature, water, deg C (00010)	Dis- solved oxygen, mg/L (00300)
APR						
06...	0923	2.00	79	7.7	2.0	13.9
06...	0924	28.0	79	7.7	2.0	13.9
06...	0925	54.0	79	7.7	2.0	13.9
06...	0926	80.0	79	7.7	2.0	13.9
06...	0927	106	79	7.7	2.0	13.8

Date	Time	Medium code	Sample type	Gage height, feet (00065)	Instan- taneous dis- charge, cfs (00061)	Sam- pling method, code (82398)	Stream width, feet (00004)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)
DEC													
15...	1000	9	9	--	112	10	101	734	13.3	100	7.8	77	-2.0
FEB													
10...	1030	9	9	--	325	10	84.0	765	13.2	90	7.7	63	2.0
APR													
06...	0915	9	9	12.65	197	10	130	756	13.9	100	7.7	79	1.0
JUN													
25...	0730	9	9	16.50	5300	10	190	758	12.6	98	7.1	22	25.0
AUG													
17...	0920	9	9	16.16	4620	10	184	760	13.1	104	7.0	17	24.5

Date	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, recovery fltrd, mg/L (00915)	Calcium water unfltrd recover- able, mg/L (00916)	Magnes- ium, water, recovery fltrd, mg/L (00925)	Magnes- ium, water, recovery fltrd, mg/L (00927)	Potas- sium, water, recovery fltrd, mg/L (00935)	Sodium, water, recovery fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
DEC													
15...	.5	36	11.8	--	1.65	--	1.55	1.27	34	41	.85	<.2	5.32
FEB													
10...	.0	30	9.68	--	1.53	--	1.25	1.09	26	32	1.42	<.2	4.57
APR													
06...	2.0	36	11.6	10.7	1.77	1.58	1.54	1.47	34	42	1.24	<.2	5.62
JUN													
25...	4.5	9	3.10	5.04	.387	2.40	.57	.28	9	11	1.76	.9	1.21
AUG													
17...	5.5	8	2.64	--	.324	--	.43	.18	6	7	.96	<.2	1.01

SOUTHEAST ALASKA

15056210 TAIYA RIVER NEAR SKAGWAY—Continued

Date	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents 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)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)
DEC 15...	3.5	47	42	<.10	<.10	<.010	.230	<.002	--	<.006	E.002	<.004	--
FEB 10...	2.6	39	45	E.07	E.09	E.008	.316	E.001	--	<.006	E.003	<.04	--
APR 06...	2.6	48	48	E.05	E.07	<.010	.260	<.002	<.02	<.006	E.004	<.004	<.1
JUN 25...	28.6	42	16	E.10	<.10	E.005	.027	<.002	.02	.017	.022	.109	.3
AUG 17...	.7	10	11	<.10	<.10	E.006	E.014	E.001	--	E.003	<.004	.139	--
Date	Organic carbon, water, fltrd, mg/L (00681)	Alum- inum, water, fltrd, recover 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, recover -able, 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 15...	.9	--	--	--	--	--	--	--	--	--	--	--	--
FEB 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 06...	2.3	36	74	<.20	<.2	<.2	37	37	<.06	<.06	<8	<8	<.04
JUN 25...	E.2	48	4760	<.20	<.2	<.2	10	117	<.06	.08	<8	<8	<.04
AUG 17...	E.2	--	--	--	--	--	--	--	--	--	--	--	--
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 15...	--	--	--	--	--	--	--	23	--	--	--	--	--
FEB 10...	--	--	--	--	--	--	--	61	--	--	--	--	--
APR 06...	<.04	<.8	<.8	.072	.080	1.4	1.6	49	120	.13	.09	<.6	E.4
JUN 25...	.05	<.8	3.6	.034	1.73	E.2	2.6	37	6070	E.06	1.96	E.3	3.5
AUG 17...	--	--	--	--	--	--	--	92	--	--	--	--	--

15056210 TAIYA RIVER NEAR SKAGWAY—Continued

Date	Mangan- ese, water, unfltrd recover- able, ug/L (01056)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Mercury water, unfltrd recover- able, ug/L (71890)	Mercury water, unfltrd recover- able, ug/L (71900)	Molyb- denum, water, unfltrd recover- able, ug/L (01060)	Molyb- denum, water, unfltrd recover- able, ug/L (01062)	Nickel, water, unfltrd recover- able, ug/L (01065)	Nickel, water, unfltrd recover- able, ug/L (01067)	Selen- ium, water, unfltrd recover- able, ug/L (01145)	Selen- ium, water, unfltrd recover- able, ug/L (01147)	Silver, water, unfltrd recover- able, ug/L (01075)	Silver, water, unfltrd recover- able, ug/L (01077)	Stront- ium, water, unfltrd recover- able, ug/L (01080)
DEC 15...	11.2	--	--	--	--	--	--	--	--	--	--	--	--
FEB 10...	9.7	--	--	--	--	--	--	--	--	--	--	--	--
APR 06...	10.8	12	<.02	<.02	1.2	1.2	.61	.28	<.4	<.4	<.2	<.16	64.0
JUN 25...	5.5	105	<.02	<.02	.6	.6	.12	1.73	<.4	<.4	<.2	<.16	17.7
AUG 17...	8.0	--	--	--	--	--	--	--	--	--	--	--	--

Date	Stront- ium, water, unfltrd recover- able, ug/L (01082)	Thall- ium, water, unfltrd recover- able, ug/L (01057)	Thall- ium, water, unfltrd recover- able, ug/L (01059)	Vanad- ium, water, unfltrd recover- able, ug/L (01085)	Zinc, water, unfltrd recover- able, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)	Uranium natural water, unfltrd recover- able, ug/L (22703)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	Sampler type, code (84164)
DEC 15...	--	--	--	--	--	--	--	2	.60	3044
FEB 10...	--	--	--	--	--	--	--	9	7.9	3044
APR 06...	68.8	<.04	<.2	.2	1.4	E1	.44	1	.53	3044
JUN 25...	30.9	<.04	<.2	.2	.7	24	.09	234	3350	3054
AUG 17...	--	--	--	--	--	--	--	144	1800	3054

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

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

SOUTHEAST ALASKA

15056210 TAIYA RIVER NEAR SKAGWAY—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
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	0.5	0.0	0.0	3.0	1.0	2.0	4.5	1.5	3.0
2	0.0	0.0	0.0	0.5	0.0	0.0	2.0	1.0	1.5	4.5	2.0	3.0
3	0.0	0.0	0.0	1.5	0.0	1.0	1.5	0.5	1.0	6.5	1.5	3.5
4	0.0	0.0	0.0	1.0	0.5	0.5	4.0	1.0	2.0	6.0	1.5	3.5
5	0.0	0.0	0.0	2.0	0.0	1.0	4.0	1.5	2.5	6.5	1.5	3.5
6	0.0	0.0	0.0	2.5	0.5	1.5	5.0	1.5	3.0	6.5	2.0	4.0
7	0.0	0.0	0.0	2.5	0.0	1.5	5.5	2.0	3.5	6.5	2.0	4.0
8	0.0	0.0	0.0	1.5	0.0	0.5	6.0	2.0	3.5	6.0	2.5	4.0
9	0.0	0.0	0.0	2.0	0.0	1.0	3.5	1.5	2.5	5.0	2.5	4.0
10	0.5	0.0	0.0	2.0	1.0	1.5	6.0	2.0	4.0	7.5	2.0	4.0
11	0.0	0.0	0.0	3.5	1.0	2.0	5.5	1.0	3.0	7.5	2.0	4.5
12	0.0	0.0	0.0	2.0	1.0	1.5	4.0	2.0	3.0	7.5	2.0	4.5
13	0.5	0.0	0.0	3.5	1.5	2.0	5.0	2.5	4.0	7.5	2.5	4.5
14	0.5	0.0	0.5	2.0	0.0	1.0	6.0	2.0	4.0	7.0	2.5	4.5
15	1.0	0.5	0.5	3.5	1.0	2.0	6.0	1.5	3.5	6.5	2.5	4.0
16	1.5	0.5	1.0	4.0	1.5	2.5	5.0	1.0	3.0	5.5	2.5	4.0
17	1.5	0.5	1.0	3.5	1.0	2.0	4.5	2.5	3.5	6.0	3.0	4.0
18	2.0	0.5	1.0	2.5	0.0	1.0	5.5	2.5	3.5	7.5	3.0	4.5
19	3.0	1.5	2.0	1.5	0.0	0.5	6.5	2.0	4.0	7.5	2.5	4.5
20	2.5	1.5	2.0	0.5	0.0	0.0	6.5	1.5	4.0	7.0	3.0	4.5
21	2.5	1.0	2.0	0.5	0.0	0.0	6.5	1.5	4.0	6.5	2.5	4.5
22	2.0	1.0	1.5	2.0	0.0	0.5	4.5	2.5	3.5	7.0	2.5	4.5
23	2.5	1.0	1.5	2.5	0.0	1.0	5.5	2.0	3.5	7.5	2.5	4.5
24	3.0	1.0	2.0	3.0	0.5	1.5	4.5	2.5	3.5	---	---	---
25	2.0	0.5	1.0	4.0	1.5	2.5	4.5	2.5	3.5	---	---	---
26	1.5	0.0	0.5	4.5	1.0	2.5	4.0	1.5	3.0	---	---	---
27	0.5	0.0	0.0	5.0	2.0	3.0	6.5	2.0	4.0	---	---	---
28	0.5	0.0	0.0	2.5	0.5	1.5	6.0	2.5	4.0	---	---	---
29	1.0	0.0	0.0	3.0	1.5	2.0	7.5	1.5	4.0	---	---	---
30	---	---	---	3.5	1.0	2.0	7.0	1.5	4.0	---	---	---
31	---	---	---	3.0	0.5	2.0	---	---	---	---	---	---
MONTH	3.0	0.0	0.6	5.0	0.0	1.3	7.5	0.5	3.3	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	5.5	4.5	5.0	6.5	4.0	5.0	7.0	3.5	5.0
2	---	---	---	7.0	4.0	5.5	6.0	4.0	5.0	6.0	4.5	5.0
3	---	---	---	6.0	4.5	5.0	5.5	4.5	5.0	6.5	4.5	5.5
4	---	---	---	6.0	4.0	5.0	8.0	4.0	5.5	5.5	4.0	4.5
5	---	---	---	6.0	4.0	5.0	8.0	4.0	5.5	5.0	4.0	4.5
6	---	---	---	7.0	4.0	5.5	8.0	4.0	5.5	6.0	4.0	4.5
7	---	---	---	6.0	4.0	5.0	8.0	4.0	5.5	6.0	3.0	4.5
8	---	---	---	7.5	4.0	5.5	8.0	4.0	5.5	6.5	2.5	4.5
9	---	---	---	7.0	4.5	5.5	8.0	4.0	5.5	6.0	2.5	4.0
10	---	---	---	6.0	4.5	5.0	7.5	4.5	5.5	6.0	2.0	4.0
11	---	---	---	8.0	4.0	5.5	6.0	4.5	5.5	5.5	3.5	4.5
12	---	---	---	8.0	4.0	5.5	7.5	4.0	5.5	5.5	4.0	5.0
13	---	---	---	7.5	4.5	5.5	8.0	4.0	5.5	6.0	4.0	5.0
14	---	---	---	7.5	4.5	6.0	8.0	4.0	5.5	6.5	4.5	5.0
15	---	---	---	8.0	5.0	6.0	7.5	4.5	5.5	6.0	4.0	5.0
16	---	---	---	8.5	4.5	6.0	7.5	4.5	6.0	6.0	3.5	4.5
17	---	---	---	7.5	5.0	6.0	7.5	4.5	5.5	6.0	4.0	5.0
18	---	---	---	7.5	5.0	6.0	6.0	4.5	5.0	6.5	4.0	5.0
19	---	---	---	8.5	4.5	6.0	6.5	4.5	5.5	5.5	2.5	4.0
20	---	---	---	8.0	4.5	6.0	7.0	4.5	5.5	5.5	4.0	5.0
21	---	---	---	7.0	5.0	6.0	7.5	4.5	5.5	6.0	4.5	5.5
22	---	---	---	7.0	4.5	5.5	7.5	4.5	5.5	5.0	4.0	4.5
23	---	---	---	6.5	5.0	5.5	7.5	3.5	5.0	5.5	4.0	5.0
24	---	---	---	6.5	4.5	5.5	6.5	3.5	5.0	5.5	4.5	5.0
25	8.0	4.5	6.0	6.5	4.5	5.5	6.0	4.0	5.0	5.5	4.0	4.5
26	7.0	4.5	5.5	5.5	4.5	5.0	5.5	4.0	5.0	5.5	4.5	5.0
27	8.0	4.0	5.5	5.5	4.5	5.0	6.0	4.5	5.0	5.5	4.0	5.0
28	5.5	4.5	5.0	6.0	4.5	5.5	6.0	4.5	5.0	5.5	4.0	4.5
29	7.0	4.0	5.5	5.5	4.5	5.0	6.0	4.0	5.0	6.0	5.0	5.5
30	6.0	4.5	5.0	6.0	4.0	5.0	6.5	4.0	5.0	6.0	5.0	5.5
31	---	---	---	7.0	4.0	5.0	7.0	3.5	5.0	---	---	---
MONTH	---	---	---	8.5	4.0	5.5	8.0	3.5	5.3	7.0	2.0	4.8

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS

LOCATION.--Lat 58°26'37", long 135°36'01", in SW¹/₄ SE¹/₄ SE¹/₄ sec. 36, T. 39 S., R. 59 E. (Juneau B-5 quad), Hydrologic Unit 19010302, in Glacier Bay National Park and Preserve, 1.7 miles above the mouth at Icy Passage, 4.5 mi east of Gustavus, and 44 mi west of Juneau.

DRAINAGE AREA.--10.1 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1999 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 180 ft³/s, which are poor. GOES satellite telemetry at station.

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	47	30	52	e14	e8.5	19	15	119	58	22	32	11
2	38	27	69	e13	e9.5	18	58	151	62	20	31	46
3	32	24	24	e12	e10	17	168	148	61	24	28	115
4	34	22	18	e11	e12	16	84	151	64	22	25	82
5	34	20	16	e11	e29	15	52	131	79	27	22	94
6	46	18	e15	e10	e58	15	49	106	78	25	20	102
7	50	18	e14	e9.5	e50	22	62	95	84	21	18	71
8	39	17	e14	e9.0	e150	89	53	89	85	20	17	48
9	33	116	13	e9.3	e260	38	57	90	76	19	16	37
10	31	38	e13	e10	127	42	64	93	84	18	15	31
11	28	43	e12	e12	78	50	53	99	73	18	20	29
12	26	341	e12	e22	64	31	54	106	66	16	16	77
13	24	113	12	e70	62	24	50	112	59	16	14	127
14	24	68	12	e180	62	20	47	115	58	15	13	87
15	21	75	12	e70	42	19	43	108	50	14	12	68
16	20	49	13	e30	33	18	38	95	44	14	12	52
17	19	37	47	e35	28	18	37	84	43	14	11	40
18	22	30	54	e79	29	e17	36	81	47	13	12	33
19	23	e28	103	e62	41	e16	32	90	51	12	13	29
20	22	e25	44	e69	71	e15	31	107	50	12	13	89
21	20	e23	108	82	79	e14	33	128	45	13	12	270
22	25	e22	311	101	99	14	42	114	42	13	11	158
23	75	e21	127	94	54	13	45	98	39	12	11	176
24	52	20	61	57	44	15	44	113	37	13	10	229
25	180	18	43	e23	35	13	60	151	35	12	10	149
26	183	17	34	e10	29	16	107	164	32	12	10	101
27	103	16	e27	e9.0	e25	17	82	113	32	24	19	144
28	88	15	e24	e8.6	23	46	72	83	28	78	20	109
29	53	19	e20	e8.3	21	37	63	72	26	56	19	92
30	41	39	e18	e8.0	---	22	75	65	24	36	16	150
31	35	---	e16	e8.0	---	18	---	61	---	32	12	---
TOTAL	1468	1349	1358	1146.7	1633.0	744	1706	3332	1612	663	510	2846
MEAN	47.4	45.0	43.8	37.0	56.3	24.0	56.9	107	53.7	21.4	16.5	94.9
MAX	183	341	311	180	260	89	168	164	85	78	32	270
MIN	19	15	12	8.0	8.5	13	15	61	24	12	10	11
MED	34	25	20	13	42	18	52	106	51	18	15	88
AC-FT	2910	2680	2690	2270	3240	1480	3380	6610	3200	1320	1010	5650
CFSM	4.69	4.45	4.34	3.66	5.58	2.38	5.63	10.6	5.32	2.12	1.63	9.39
IN.	5.41	4.97	5.00	4.22	6.01	2.74	6.28	12.27	5.94	2.44	1.88	10.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)#

	MEAN	88.4	54.3	55.8	35.3	26.6	18.6	33.9	83.3	81.7	54.7	52.8	98.8
MAX	129	99.0	128	55.4	56.3	24.0	56.9	107	114	79.1	131	128	
(WY)	2003	2003	2000	2003	2004	2004	2004	2004	2000	2000	2002	1999	
MIN	47.4	22.8	20.6	18.7	11.0	8.67	15.2	53.2	47.6	21.4	16.5	77.5	
(WY)	2004	2002	2002	2000	2000	2002	2002	2003	2003	2004	2004	2002	

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1999 - 2004#

ANNUAL TOTAL	16287.5	18367.7	
ANNUAL MEAN	44.6	50.2	56.6
HIGHEST ANNUAL MEAN			70.3
LOWEST ANNUAL MEAN			50.2
HIGHEST DAILY MEAN	341	341	1110
LOWEST DAILY MEAN	7.0	a8.0	5.0
ANNUAL SEVEN-DAY MINIMUM	7.4	8.6	5.8
MAXIMUM PEAK FLOW		759	b1650
MAXIMUM PEAK STAGE		29.67	30.52
INSTANTANEOUS LOW FLOW		c	5.0
ANNUAL RUNOFF (AC-FT)	32310	36430	41030
ANNUAL RUNOFF (CFSM)	4.42	4.97	5.61
ANNUAL RUNOFF (INCHES)	59.99	67.65	76.19
10 PERCENT EXCEEDS	101	108	122
50 PERCENT EXCEEDS	29	33	35
90 PERCENT EXCEEDS	13	12	11

See period of Record, partial years used in monthly statistics
a January 30-31
b From rating curve extended above 130 cfs
c Undetermined, see lowest daily value
e Estimated

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- October 1999 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1999 to September 2004 (discontinued).

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

REMARKS.--Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on May 14, 2004. No variation was found in the temperature cross section. No variation was found between mean stream temperature and sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 17.5°C, July 15-16, 2004; minimum, 0.0°C, on many days during winter.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE 2003: Maximum, 15.5°C, July 12; minimum, 0.0°C, on many days during the winter.

WATER TEMPERATURE 2004: Maximum, 17.5°C, July 15-16; minimum, 0.0°C, on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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)
MAY							
14...	1204	49.0	1.50	28.21	104	6.0	12.5
14...	1205	49.0	11.5	28.21	104	6.0	12.5
14...	1206	49.0	21.5	28.21	104	6.0	12.5
14...	1207	49.0	31.5	28.21	104	6.0	12.5

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.5	6.5	7.0	5.0	4.5	4.5	4.5	3.5	4.0	1.0	0.5	1.0
2	7.0	6.0	6.5	4.5	4.5	4.5	3.5	2.5	3.0	1.5	1.0	1.0
3	7.0	5.5	6.5	4.5	4.0	4.5	2.5	1.5	2.0	1.5	0.5	1.0
4	7.0	6.0	6.5	5.0	4.5	4.5	1.5	1.0	1.5	1.5	0.5	1.0
5	6.0	5.5	6.0	5.5	4.5	5.0	2.0	1.0	1.5	2.0	1.5	1.5
6	7.5	6.0	7.0	6.0	5.0	5.5	2.0	1.0	1.5	2.5	1.0	2.0
7	7.5	7.0	7.5	5.5	3.5	4.5	2.5	2.0	2.5	1.5	1.0	1.5
8	7.0	6.0	6.5	3.5	3.0	3.5	3.0	2.5	3.0	1.5	0.5	1.0
9	6.0	4.0	5.0	4.0	3.5	4.0	4.0	3.0	3.5	0.5	0.0	0.0
10	4.5	3.5	4.0	4.5	4.0	4.0	4.0	3.5	4.0	0.0	0.0	0.0
11	5.5	4.0	5.0	4.5	4.0	4.5	3.5	3.5	3.5	0.0	0.0	0.0
12	6.0	5.5	6.0	4.5	4.0	4.0	4.0	3.0	3.5	0.0	0.0	0.0
13	6.5	6.0	6.0	5.0	4.5	4.5	3.5	2.0	3.0	1.5	0.0	1.0
14	6.5	5.5	6.0	5.0	4.5	5.0	2.5	2.0	2.0	1.0	0.0	0.0
15	7.0	6.5	6.5	5.0	4.0	5.0	3.0	2.0	2.5	1.5	0.0	0.5
16	8.0	7.0	7.5	4.0	3.0	3.5	3.0	2.0	2.5	1.5	1.5	1.5
17	7.5	7.0	7.0	4.0	3.0	3.5	2.5	2.0	2.5	1.5	0.5	1.0
18	7.0	6.5	6.5	4.0	3.5	3.5	2.5	1.5	2.0	2.0	1.5	1.5
19	7.5	6.5	7.5	4.0	3.5	3.5	2.0	0.5	1.5	2.0	2.0	2.0
20	8.0	7.0	7.5	4.0	4.0	4.0	0.5	0.0	0.0	2.5	2.0	2.0
21	7.0	7.0	7.0	4.0	4.0	4.0	0.0	0.0	0.0	2.0	0.5	1.0
22	7.0	6.5	7.0	4.0	3.5	3.5	0.0	0.0	0.0	0.5	0.0	0.5
23	7.0	6.0	6.5	3.5	2.0	2.5	1.0	0.0	0.5	0.5	0.0	0.0
24	6.5	5.5	6.0	4.0	2.5	3.5	1.5	0.0	1.0	0.0	0.0	0.0
25	6.5	6.0	6.5	4.5	4.0	4.0	1.5	1.0	1.0	0.5	0.0	0.0
26	6.5	6.0	6.5	5.5	4.0	5.0	1.0	0.5	1.0	0.5	0.0	0.5
27	6.5	6.0	6.5	5.5	4.5	5.0	1.0	0.0	0.5	1.0	0.0	0.5
28	6.0	5.0	5.5	5.0	4.5	4.5	0.5	0.0	0.5	1.0	1.0	1.0
29	5.0	4.0	4.5	5.0	4.5	5.0	0.0	0.0	0.0	1.5	1.0	1.5
30	4.0	3.5	4.0	5.0	4.5	5.0	0.5	0.0	0.0	1.5	1.0	1.0
31	4.5	3.5	4.0	---	---	---	1.0	0.0	0.5	1.0	0.0	0.5
MONTH	8.0	3.5	6.2	6.0	2.0	4.2	4.5	0.0	1.8	2.5	0.0	0.8

SOUTHEAST ALASKA

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS—Continued

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1.5	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	6.0	4.0	5.0
2	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	5.5	3.0	4.0
3	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	5.5	3.0	4.0
4	2.0	1.5	1.5	0.5	0.0	0.5	0.0	0.0	0.0	5.0	2.0	3.5
5	2.0	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	6.0	2.0	4.0
6	2.0	1.5	2.0	0.0	0.0	0.0	0.5	0.0	0.0	6.5	3.0	4.5
7	2.0	1.5	2.0	0.0	0.0	0.0	1.5	0.5	1.0	6.5	2.5	4.5
8	2.0	1.5	1.5	0.0	0.0	0.0	2.5	0.5	1.5	7.5	3.0	5.0
9	2.5	1.5	2.0	0.0	0.0	0.0	2.5	0.5	1.0	7.5	3.5	5.5
10	2.0	1.5	2.0	0.0	0.0	0.0	3.0	1.0	1.5	6.5	4.0	5.5
11	2.5	1.5	2.0	0.0	0.0	0.0	3.5	1.0	1.5	5.5	5.0	5.5
12	2.5	1.5	2.0	0.0	0.0	0.0	4.0	0.5	1.5	5.5	5.0	5.0
13	2.5	1.0	2.0	0.0	0.0	0.0	4.0	0.5	1.5	6.0	4.0	5.0
14	1.0	0.0	0.5	0.0	0.0	0.0	4.0	0.5	2.0	5.0	3.5	4.5
15	1.5	0.5	1.0	0.0	0.0	0.0	3.0	2.0	2.5	6.5	3.5	5.0
16	1.5	1.0	1.0	0.0	0.0	0.0	2.0	1.5	2.0	6.5	3.0	4.5
17	1.5	1.0	1.0	0.0	0.0	0.0	2.5	1.5	2.0	7.0	3.5	5.0
18	1.5	1.0	1.0	0.0	0.0	0.0	2.5	1.5	2.0	9.0	5.0	6.5
19	1.0	0.0	0.5	0.0	0.0	0.0	5.0	2.0	3.0	8.5	4.0	6.0
20	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.5	2.5	9.0	4.0	6.5
21	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.0	3.0	9.0	5.0	7.0
22	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.5	3.5	9.0	6.5	7.5
23	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.0	4.0	7.5	6.5	7.0
24	0.0	0.0	0.0	0.0	0.0	0.0	6.0	2.5	4.0	7.5	6.5	7.0
25	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.0	4.5	6.5	6.0	6.0
26	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.0	4.5	8.0	5.5	6.5
27	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.5	4.5	8.0	5.0	6.5
28	0.0	0.0	0.0	0.0	0.0	0.0	6.5	2.5	4.5	8.0	6.0	7.0
29	---	---	---	0.0	0.0	0.0	6.5	3.0	4.5	8.5	7.0	7.5
30	---	---	---	0.0	0.0	0.0	6.5	3.5	5.0	9.0	6.5	8.0
31	---	---	---	0.5	0.0	0.0	---	---	---	8.0	7.0	7.5
MONTH	2.5	0.0	1.0	0.5	0.0	0.0	6.5	0.0	2.2	9.0	2.0	5.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.0	6.0	7.0	12.5	8.5	10.5	11.5	9.5	10.0	10.0	9.5	9.5
2	9.0	6.5	8.0	10.0	9.0	9.5	11.5	9.5	10.5	10.0	9.5	9.5
3	8.5	6.5	7.5	10.0	8.5	9.5	11.5	9.5	10.0	9.5	9.0	9.5
4	9.0	6.0	7.5	10.0	9.0	9.5	10.5	9.0	10.0	9.5	8.5	9.0
5	9.0	7.5	8.0	10.5	8.5	9.0	12.0	9.0	10.0	9.5	7.0	8.5
6	9.5	8.0	8.5	10.0	8.5	9.5	12.5	8.0	10.0	9.5	8.5	9.0
7	8.5	7.5	8.0	12.5	8.5	10.0	13.0	8.5	10.5	10.0	9.0	9.5
8	11.0	6.5	8.5	12.5	9.0	10.5	14.0	9.0	11.0	10.0	9.5	10.0
9	11.5	7.5	9.0	13.5	9.5	11.0	14.0	9.5	11.0	10.0	9.0	9.5
10	12.5	8.0	9.5	14.5	9.0	11.5	13.5	8.5	10.5	9.5	8.5	9.0
11	10.5	8.0	9.5	12.5	10.0	11.0	12.0	10.0	11.0	10.0	9.0	9.5
12	9.5	8.5	9.0	15.5	10.5	12.0	11.5	10.0	10.5	10.0	9.5	9.5
13	11.0	8.5	9.5	15.0	9.5	12.0	12.0	10.5	11.0	10.0	9.0	9.5
14	11.5	8.0	9.5	12.0	10.5	11.0	11.0	10.0	10.5	9.0	8.0	8.5
15	12.0	8.0	10.0	12.5	10.0	11.0	12.5	11.0	11.5	8.0	7.0	7.5
16	12.0	8.0	10.0	11.0	10.0	10.5	11.5	10.5	11.0	7.0	6.0	6.5
17	10.0	9.0	9.5	11.5	10.0	10.5	12.5	10.5	11.0	7.5	5.5	6.5
18	9.5	9.0	9.5	14.5	10.0	11.5	12.0	9.0	10.5	7.0	7.0	7.0
19	9.0	8.0	8.5	14.0	9.5	11.5	11.5	10.0	10.5	7.5	6.5	7.0
20	9.0	8.0	8.5	13.0	11.0	12.0	11.0	9.5	10.0	8.0	7.5	8.0
21	8.5	8.0	8.0	12.5	10.5	11.5	11.0	9.5	10.0	8.0	7.0	7.5
22	10.0	7.5	8.5	12.0	10.5	11.0	11.0	9.0	10.0	7.5	6.5	7.0
23	9.5	8.0	8.5	12.5	10.5	11.0	11.0	8.0	9.5	7.0	6.0	6.5
24	8.5	8.0	8.5	11.5	10.0	10.5	10.0	9.5	9.5	7.5	7.0	7.0
25	9.0	8.0	8.5	11.0	10.0	10.5	11.0	9.5	10.0	8.0	7.5	8.0
26	8.5	8.0	8.5	10.5	9.5	10.0	10.0	8.0	9.0	8.0	7.5	7.5
27	8.5	7.5	8.0	10.5	9.5	10.0	10.5	9.0	9.5	8.5	7.5	8.0
28	9.0	7.5	8.0	11.0	9.5	10.0	11.5	9.0	10.0	9.0	8.0	8.5
29	9.5	7.5	8.5	11.0	10.0	10.5	10.5	9.0	9.5	8.5	7.5	8.0
30	11.0	7.5	9.0	10.5	9.5	9.5	11.0	10.0	10.5	9.0	7.5	8.5
31	---	---	---	10.5	8.5	9.5	10.0	9.5	10.0	---	---	---
MONTH	12.5	6.0	8.6	15.5	8.5	10.6	14.0	8.0	10.3	10.0	5.5	8.3

SOUTHEAST ALASKA

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.0	8.0	8.5	3.0	2.0	2.5	0.0	0.0	0.0	0.5	0.0	0.0
2	8.5	7.0	8.0	4.0	2.5	3.0	0.5	0.0	0.5	0.5	0.0	0.5
3	8.5	7.0	7.5	2.5	1.5	2.0	1.0	0.0	0.5	0.5	0.0	0.0
4	9.0	8.5	8.5	1.5	0.5	1.0	1.0	0.0	0.5	0.5	0.0	0.5
5	9.0	8.0	8.5	2.0	0.0	1.0	1.5	0.0	1.0	0.5	0.0	0.0
6	9.0	8.5	8.5	2.5	1.0	2.0	0.5	0.0	0.0	0.5	0.0	0.0
7	9.0	8.0	8.5	3.0	2.0	2.5	0.0	0.0	0.0	0.5	0.0	0.0
8	8.0	7.0	7.5	3.0	2.0	2.5	1.5	0.0	0.5	0.0	0.0	0.0
9	7.5	7.0	7.0	3.0	1.5	2.0	1.0	0.0	0.5	0.0	0.0	0.0
10	7.0	6.0	6.5	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
11	6.0	5.0	5.5	3.0	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
12	5.5	4.0	5.0	3.5	3.0	3.5	1.5	0.0	0.5	0.0	0.0	0.0
13	6.5	5.5	6.0	3.5	1.5	3.0	1.5	0.5	1.0	0.0	0.0	0.0
14	6.5	5.0	6.0	3.0	1.5	2.5	1.0	0.5	0.5	0.0	0.0	0.0
15	5.0	3.5	4.0	3.5	3.0	3.0	1.0	0.0	1.0	0.0	0.0	0.0
16	5.5	3.5	4.5	3.0	2.5	3.0	1.5	0.5	1.0	0.0	0.0	0.0
17	6.0	5.5	6.0	2.5	2.0	2.5	1.5	1.0	1.0	0.0	0.0	0.0
18	7.0	6.0	6.5	2.0	0.0	1.0	1.5	0.0	0.5	0.0	0.0	0.0
19	7.0	6.5	6.5	0.0	0.0	0.0	1.5	0.5	1.5	0.5	0.0	0.0
20	6.5	5.0	6.0	0.5	0.0	0.0	2.0	1.5	1.5	1.5	0.5	0.5
21	6.5	4.0	5.5	0.0	0.0	0.0	2.0	1.5	2.0	1.5	1.5	1.5
22	6.5	6.0	6.0	0.0	0.0	0.0	2.0	1.5	2.0	2.0	1.0	1.5
23	6.5	5.5	6.0	1.0	0.0	0.5	2.0	1.5	2.0	2.0	1.0	1.5
24	6.5	5.5	6.0	1.5	0.5	1.0	2.0	2.0	2.0	1.0	0.0	0.5
25	7.5	6.5	7.0	1.5	0.5	1.0	2.0	0.0	1.0	0.5	0.0	0.0
26	7.5	6.5	7.0	1.0	0.5	0.5	1.0	0.0	0.5	0.5	0.0	0.5
27	6.5	6.0	6.5	0.5	0.0	0.5	0.5	0.0	0.0	0.5	0.0	0.0
28	6.0	4.5	5.5	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0
29	4.5	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	3.0	2.0	2.5	---	---	---	1.5	0.0	1.0	0.0	0.0	0.0
MONTH	9.0	2.0	6.2	4.0	0.0	1.6	2.0	0.0	0.7	2.0	0.0	0.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	2.0	0.5	1.0	1.5	0.0	1.0	5.0	4.0	4.5
2	0.0	0.0	0.0	1.5	0.0	0.5	1.5	1.0	1.0	5.5	4.0	4.5
3	0.0	0.0	0.0	1.0	0.5	0.5	2.0	1.0	1.5	6.5	4.0	5.0
4	0.0	0.0	0.0	2.0	0.5	1.0	3.0	1.5	2.0	6.0	3.5	4.5
5	0.0	0.0	0.0	2.0	0.0	1.0	4.0	2.0	2.5	6.5	3.5	4.5
6	0.0	0.0	0.0	1.5	0.0	1.0	4.0	2.0	3.0	6.5	3.5	5.0
7	0.0	0.0	0.0	2.0	1.0	1.5	3.5	2.0	3.0	6.5	4.0	5.0
8	0.0	0.0	0.0	1.0	0.0	1.0	4.0	1.5	2.5	7.0	3.5	5.0
9	0.5	0.0	0.0	1.5	0.0	1.0	4.0	2.5	3.0	6.0	4.5	5.0
10	1.5	0.5	1.0	1.5	0.0	1.0	4.0	2.0	3.0	7.0	4.0	5.5
11	2.0	1.5	1.5	2.0	1.0	1.5	4.0	2.0	3.0	7.5	3.5	5.5
12	2.0	1.5	2.0	2.0	1.0	1.5	3.5	3.0	3.5	7.5	4.0	5.5
13	2.0	2.0	2.0	2.0	1.0	1.5	4.0	3.0	3.5	8.0	4.0	5.5
14	2.0	1.5	2.0	1.5	0.0	1.0	4.5	2.5	3.5	7.5	4.5	6.0
15	2.0	1.5	1.5	1.0	0.0	0.5	4.5	2.0	3.0	7.5	4.0	5.5
16	2.0	1.5	1.5	2.0	0.5	1.0	4.0	1.5	3.0	6.5	4.5	5.5
17	2.0	1.5	2.0	2.0	0.5	1.5	4.5	3.0	3.5	6.0	5.0	5.5
18	2.5	1.5	2.0	0.5	0.0	0.0	4.0	2.5	3.5	7.0	5.0	5.5
19	2.0	1.5	2.0	0.0	0.0	0.0	5.5	2.0	3.5	8.0	4.5	6.0
20	1.5	1.5	1.5	0.0	0.0	0.0	5.0	2.0	3.5	8.5	4.5	6.0
21	2.0	1.5	1.5	0.0	0.0	0.0	5.5	3.0	4.0	8.0	4.5	6.0
22	2.0	1.5	2.0	1.5	0.0	0.5	5.0	3.0	3.5	8.0	4.0	6.0
23	2.5	2.0	2.0	1.5	0.0	0.5	4.5	3.0	3.5	8.5	4.0	6.0
24	2.0	1.0	2.0	1.5	0.0	0.5	4.5	3.5	4.0	6.5	5.5	6.0
25	1.5	0.5	1.0	2.0	1.0	1.5	4.0	3.5	4.0	6.0	5.0	5.5
26	1.0	0.0	0.5	3.0	1.0	1.5	4.5	3.5	4.0	6.0	5.0	5.5
27	0.5	0.0	0.0	2.5	1.0	1.5	5.0	3.5	4.0	7.5	4.5	6.0
28	1.5	0.0	1.0	2.0	1.0	1.5	4.5	3.5	4.0	8.0	4.5	6.0
29	2.0	0.5	1.0	2.0	0.0	1.0	6.0	3.0	4.0	7.5	5.5	6.5
30	---	---	---	1.5	0.0	0.5	6.5	3.5	5.0	8.5	5.5	7.0
31	---	---	---	0.5	0.0	0.0	---	---	---	7.5	5.5	6.5
MONTH	2.5	0.0	1.0	3.0	0.0	0.9	6.5	0.0	3.2	8.5	3.5	5.5

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	5.5	7.0	11.0	9.5	10.0	11.0	10.0	11.0	11.5	8.5	10.0
2	7.5	6.0	6.5	12.5	9.0	11.0	12.0	10.5	11.0	12.0	10.5	11.0
3	9.0	5.5	7.5	11.5	10.5	11.0	12.0	11.0	11.0	11.5	11.0	11.5
4	8.5	6.0	7.5	12.0	10.0	11.0	14.0	10.0	11.5	11.0	10.5	11.0
5	8.0	7.0	7.5	11.0	10.0	10.5	13.0	10.0	11.5	10.5	10.0	10.5
6	10.5	6.5	8.0	13.5	10.0	11.0	14.5	11.0	12.5	10.5	9.5	10.0
7	10.0	6.5	8.5	13.0	10.5	11.5	15.0	11.5	12.5	9.5	8.0	8.5
8	8.0	6.5	7.0	14.0	9.5	11.5	15.5	10.0	12.5	8.5	7.0	7.5
9	7.5	6.5	7.0	14.5	10.5	12.0	16.0	10.5	12.5	8.0	6.5	7.5
10	8.0	6.0	7.0	12.0	10.5	11.5	15.5	10.5	12.5	8.0	6.0	7.0
11	8.0	6.0	7.0	13.5	10.0	11.5	14.0	12.0	13.0	8.5	7.0	8.0
12	9.0	6.5	8.0	15.0	9.5	12.0	14.0	10.5	12.0	9.0	8.0	8.5
13	9.0	7.0	8.0	16.0	11.0	12.5	15.5	10.0	12.5	9.0	8.5	9.0
14	8.0	7.0	7.5	16.5	11.0	13.0	16.0	10.0	12.5	9.0	8.0	8.5
15	9.0	7.0	8.0	17.5	10.5	13.5	16.5	11.0	13.5	8.5	7.5	8.0
16	10.0	6.5	8.0	17.5	11.0	13.5	17.0	12.0	14.0	8.5	7.0	7.5
17	11.0	7.0	9.5	15.0	12.5	13.5	17.0	12.0	14.0	8.0	7.0	7.5
18	12.0	8.0	10.0	14.0	11.5	13.0	15.0	12.5	13.5	8.0	6.0	7.0
19	12.5	9.0	11.0	15.0	10.5	12.5	13.5	12.5	13.0	7.5	5.5	6.5
20	12.5	9.0	11.0	15.0	12.0	13.0	15.5	12.5	13.5	9.0	7.0	8.0
21	12.5	8.5	11.0	15.0	12.0	13.0	16.5	12.0	13.5	9.5	8.0	9.0
22	13.0	9.0	11.0	14.5	12.0	13.0	16.0	11.0	13.0	8.0	8.0	8.0
23	13.5	9.5	11.5	15.0	12.0	13.5	14.5	9.0	11.5	8.5	8.0	8.5
24	14.0	9.5	11.5	13.5	12.0	12.5	14.5	9.0	11.5	8.5	7.5	8.0
25	14.0	10.0	12.0	15.5	11.5	13.0	12.5	9.5	11.0	8.0	7.0	7.5
26	12.5	10.5	11.5	13.5	11.5	12.5	13.0	11.0	12.0	8.0	7.5	7.5
27	11.5	10.0	10.5	12.5	11.5	12.0	13.0	11.5	12.0	8.5	7.5	8.0
28	10.5	9.5	10.0	13.0	12.0	12.5	12.5	11.5	12.0	8.0	7.0	7.5
29	10.5	9.5	10.0	12.5	11.0	12.0	13.0	11.0	12.0	8.0	7.5	8.0
30	10.5	9.5	10.0	12.0	10.5	11.0	13.5	10.5	11.5	8.0	8.0	8.0
31	---	---	---	12.0	10.5	11.0	13.0	9.0	10.5	---	---	---
MONTH	14.0	5.5	9.0	17.5	9.0	12.1	17.0	9.0	12.3	12.0	5.5	8.4

15070000 SWAN LAKE NEAR KETCHIKAN

LOCATION.--Lat 55°36'54", long 131°20'14", in SW¹/₄ NE¹/₄ 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 mi².

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.--48 years (water years 1917-25, 1928-33, 1947-59, 1985-2004), 444 ft³/s, 165.20 in/yr, 321,680 acre-ft/yr. Mean discharge for water years 1985-2004 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 ft³/s, November 1, 1917; minimum daily discharge, 19 ft³/s, February 21 to 25, 1925. Maximum daily discharge since construction of dam, 3,680 ft³/s, November 30, 1988; no flow released several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 134,920 acre-ft, October 26, elevation, 336.10 ft; minimum contents observed, 75,240 acre-ft, September 12, elevation, 294.80 ft. Maximum release from reservoir (mean daily, not adjusted for changes in storage), 3,673 ft³/s, October 26; minimum release, 158 ft³/s, October 3.

MONTH END RESERVOIR ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Sep 30	326.3	120,810	
Oct 31	330.5	126,890	+6,080
Nov 30	324.7	118,500	-8,390
Dec 31	328.7	124,290	+5,790
Jan 31	327.1	121,970	-2,310
Feb 29	320.9	113,010	-8,970
Mar 31	318.1	108,950	-4,050
Apr 30	323.2	116,330	+7,370
May 31	327.4	122,410	+6,080
Jun 30	326.0	120,380	-2,030
Jul 31	315.6	105,330	-15,050
Aug 31	299.4	80,900	-24,440
Sep 30	302.7	86,670	+5,770
		CAL YR 2003	-570
		WTR YR 2004	-34,150

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

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	344	274	618	717
NOV	419	77	496	355
DEC	455	33	488	582
JAN	467	251	718	680
FEB	430	0	430	274
MAR	390	0	390	324
APR	333	0	333	457
MAY	319	0	319	418
JUN	333	0	333	299
JUL	387	0	387	142
AUG	456	0	456	59
SEP	428	0	428	525
CAL YR 2003	370	52	422	420
WTR YR 2004	397	52.9	450	403

15072000 FISH CREEK NEAR KETCHIKAN

LOCATION.--Lat 55°23'31", long 131°11'38", in SW¹/₄SW¹/₄ 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 mi², 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 ft³/s and/or maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	1030	*3640	*4.39	Jan. 15	0700	2450	3.59
Dec. 23	0415	2880	3.89				

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	302	436	450	215	147	157	358	496	318	139	103	104
2	253	342	592	183	129	142	301	503	345	133	121	101
3	217	281	537	156	113	136	269	561	338	126	149	135
4	192	236	452	136	99	134	279	546	310	120	167	292
5	178	204	470	119	114	172	281	488	299	123	184	295
6	215	178	378	106	143	193	262	424	296	206	179	266
7	382	157	308	102	146	308	249	373	286	283	166	246
8	534	141	260	106	197	431	268	337	276	298	153	236
9	484	132	224	162	321	557	265	311	269	261	142	218
10	509	127	197	340	508	500	277	300	257	228	131	197
11	466	134	196	449	459	493	336	287	239	208	121	191
12	390	356	232	474	374	447	379	275	246	190	112	195
13	366	1680	212	822	315	349	382	268	276	172	104	381
14	372	1640	179	1670	276	302	347	266	263	157	98	591
15	322	1130	307	2290	242	295	309	265	240	145	91	615
16	282	809	478	1610	213	304	278	260	220	145	86	499
17	303	620	540	1530	202	277	252	250	204	135	80	397
18	358	510	576	1620	275	235	244	243	194	128	75	324
19	477	392	582	1710	338	201	221	243	189	124	71	271
20	526	317	717	1290	453	177	200	254	186	123	77	239
21	463	262	899	1180	622	157	186	273	185	121	74	583
22	408	231	1990	1220	558	147	211	284	181	120	71	791
23	433	208	2730	1160	463	142	359	279	177	118	66	1120
24	481	225	1970	852	390	139	497	270	173	114	62	1750
25	1400	240	1390	606	320	138	777	282	167	109	58	1610
26	3240	210	989	443	268	138	1060	309	163	105	57	1100
27	2390	337	708	331	228	137	1000	332	157	100	66	816
28	1700	252	505	268	200	228	788	324	152	100	86	679
29	1160	212	370	231	177	494	633	304	148	104	104	524
30	792	259	301	198	---	509	535	305	153	106	109	412
31	576	---	257	170	---	437	---	303	---	105	107	---
TOTAL	20171	12258	19996	21749	8290	8476	11803	10215	6907	4646	3270	15178
MEAN	651	409	645	702	286	273	393	330	230	150	105	506
MAX	3240	1680	2730	2290	622	557	1060	561	345	298	184	1750
MIN	178	127	179	102	99	134	186	243	148	100	57	101
MED	433	255	470	443	268	228	291	300	229	126	103	352
AC-FT	40010	24310	39660	43140	16440	16810	23410	20260	13700	9220	6490	30110
CFSM	20.3	12.7	20.1	21.9	8.91	8.52	12.3	10.3	7.17	4.67	3.29	15.8
IN.	23.38	14.21	23.17	25.20	9.61	9.82	13.68	11.84	8.00	5.38	3.79	17.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2004, BY WATER YEAR (WY)#

MEAN	694	565	424	360	316	262	353	501	468	332	330	450
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	142	65.3	50.7	80.0
(WY)	1926	1974	1984	1950	1969	1969	1967	1998	1998	1958	1965	1965

See Period of Record

SOUTHEAST ALASKA

15072000 FISH CREEK NEAR KETCHIKAN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1915 - 2004#	
ANNUAL TOTAL	161036		142959			
ANNUAL MEAN	441		391		422	
HIGHEST ANNUAL MEAN					556 1992	
LOWEST ANNUAL MEAN					302 1978	
HIGHEST DAILY MEAN	3240	Oct 26	3240	Oct 26	4410	Oct 15 1961
LOWEST DAILY MEAN	51	Aug 14	57	Aug 26	20	Sep 9 1928
ANNUAL SEVEN-DAY MINIMUM	59	Aug 9	65	Aug 21	23	Sep 5 1928
MAXIMUM PEAK FLOW			3640	Oct 26	a5400	Oct 15 1961
MAXIMUM PEAK STAGE			4.39	Oct 26	b5.85	Oct 15 1961
INSTANTANEOUS LOW FLOW			53	Aug 26	20	Sep 9 1928
ANNUAL RUNOFF (AC-FT)	319400		283600		305900	
ANNUAL RUNOFF (CFSM)	13.7		12.2		13.2	
ANNUAL RUNOFF (INCHES)	186.62		165.67		178.70	
10 PERCENT EXCEEDS	890		789		862	
50 PERCENT EXCEEDS	308		268		319	
90 PERCENT EXCEEDS	135		114		99	

See Period of Record

a From rating curve extended above 3,600 ft³/s

b At site then in use

15081497 STANEY CREEK NEAR KLAWOCK

LOCATION.--Lat 55°48'05", long 133°06'31", in SW¹/₄ NW¹/₄ 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 mi².

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 mi².

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

REMARKS.--Records fair, except for discharges above 6,000 ft³/s, and estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 26	0545	11300	15.18	Sep 21	0600	11200	15.16
Nov 30	2245	7370	13.85	Sep 24	0200	*11600	15.26
Dec 19	0345	8050	14.11				

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	91	110	3050	e170	e30	55	216	121	322	15	29	45
2	74	90	1400	e120	e25	51	363	100	293	16	145	35
3	64	75	370	e90	e30	84	366	163	127	16	222	403
4	58	63	212	e70	e50	147	380	128	67	16	129	644
5	69	56	216	e56	e100	235	204	95	48	18	232	168
6	234	53	175	e45	e200	274	163	65	39	257	236	144
7	312	49	133	e50	489	2380	294	55	33	214	114	237
8	193	49	102	e80	1090	2210	244	48	30	91	77	193
9	133	e54	93	e600	1370	669	161	46	27	52	50	106
10	193	175	113	e650	688	457	230	52	24	37	38	71
11	186	294	100	473	284	645	304	52	23	37	32	50
12	117	5010	e120	553	202	313	245	46	23	37	28	42
13	144	3730	181	1450	208	192	173	45	24	31	25	566
14	379	612	112	1780	224	170	149	45	25	26	23	350
15	191	332	1400	616	136	620	118	41	22	23	22	253
16	131	257	1810	339	106	1080	82	38	21	24	21	145
17	255	234	1390	979	163	376	65	35	20	46	21	85
18	373	223	1980	1490	704	202	63	35	19	37	22	68
19	370	151	5070	510	568	139	56	37	18	30	27	52
20	340	107	957	685	1060	117	52	36	17	31	40	186
21	217	135	755	749	626	106	52	35	16	64	34	4440
22	294	e180	2950	586	296	144	75	33	16	45	27	1120
23	719	367	2050	475	195	179	188	28	15	32	23	3770
24	297	647	458	252	185	201	876	30	15	27	21	3910
25	3460	807	336	e130	133	185	971	49	15	28	19	552
26	4450	360	220	e80	105	151	1160	50	15	30	22	231
27	742	239	154	e50	83	148	294	51	16	31	119	233
28	1260	165	114	e48	68	620	168	42	16	52	140	208
29	330	272	133	e46	62	1640	120	38	15	92	65	131
30	187	2450	173	e45	---	850	108	89	15	49	55	97
31	137	---	e271	e36	---	297	---	189	---	34	70	---
TOTAL	16000	17346	26598	13303	9480	14937	7940	1917	1376	1538	2128	18535
MEAN	516	578	858	429	327	482	265	61.8	45.9	49.6	68.6	618
MAX	4450	5010	5070	1780	1370	2380	1160	189	322	257	236	4440
MIN	58	49	93	36	25	51	52	28	15	15	19	35
AC-FT	31740	34410	52760	26390	18800	29630	15750	3800	2730	3050	4220	36760
CFSM	10.2	11.4	17.0	8.48	6.46	9.52	5.23	1.22	0.91	0.98	1.36	12.2
IN.	11.76	12.75	19.55	9.78	6.97	10.98	5.84	1.41	1.01	1.13	1.56	13.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)#

MEAN	649	558	610	461	381	347	294	220	116	91.1	189	500
MAX	1123	996	1270	782	983	565	559	558	252	200	469	898
(WY)	2000	1992	1992	1992	1991	1994	1997	1999	1999	1997	2002	2003
MIN	403	201	267	240	152	104	144	61.8	26.5	22.1	26.6	166
(WY)	2003	1997	1997	1998	1994	2002	2003	2004	1993	1993	1993	1995

See period of Record; partial years used in monthly summary of statistics
e Estimated

15081497 STANEY CREEK NEAR KLAWOCK—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1990 - 2004#	
ANNUAL TOTAL	138776		131098			
ANNUAL MEAN	380		358		368	
HIGHEST ANNUAL MEAN					506 1992	
LOWEST ANNUAL MEAN					283 1995	
HIGHEST DAILY MEAN	5070	Dec 19	5070	Dec 19	14900	Oct 26 1993
LOWEST DAILY MEAN	a17	Aug 11	b15	Jun 23	4.4	Jul 21 1993
ANNUAL SEVEN-DAY MINIMUM	18	Aug 8	15	Jun 23	6.0	Jul 15 1993
MAXIMUM PEAK FLOW			11600	Sep 24	c19800	Oct 26 1993
MAXIMUM PEAK STAGE			15.26	Sep 24	17.20	Oct 26 1993
INSTANTANEOUS LOW FLOW			d14	Jun 24	4.0	Jul 21 1993
ANNUAL RUNOFF (AC-FT)	275300		260000		266600	
ANNUAL RUNOFF (CFSM)	7.51		7.08		7.27	
ANNUAL RUNOFF (INCHES)	102.03		96.38		98.80	
10 PERCENT EXCEEDS	897		771		879	
50 PERCENT EXCEEDS	145		130		168	
90 PERCENT EXCEEDS	32		25		37	

See Period of Record;partial years used in monthly statistics

a Aug. 11-13

b Jun. 23-26, 29-30, and Jul. 1

c From rating curve extended above 3300 ft³/sec

d Jun. 24-26

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.-- 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 25. No variation was found in the temperature cross-section or between mean stream temperature and temperature recorded at the sensor.

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.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE.--Maximum, 23.5°C, June 20; minimum, 0.0°C on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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							
25...	1100	60.5	6.00	6.82	18	14.0	20.5
25...	1101	60.5	18.0	6.82	18	14.0	20.5
25...	1102	60.5	30.0	6.82	18	14.0	20.5
25...	1103	60.5	42.0	6.82	18	14.0	20.5
25...	1104	60.5	54.0	6.82	18	14.0	20.5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.5	8.5	9.5	5.0	3.0	4.0	2.5	1.5	2.0	0.0	0.0	0.0
2	10.5	9.5	10.0	4.5	2.5	3.5	3.0	2.0	2.5	0.0	0.0	0.0
3	10.5	9.5	10.0	4.0	2.5	3.5	2.5	1.5	2.0	0.0	0.0	0.0
4	11.5	9.5	10.0	3.5	1.5	2.5	2.5	1.5	2.5	0.0	0.0	0.0
5	10.0	8.5	9.5	3.0	1.0	2.0	3.0	2.0	2.5	0.0	0.0	0.0
6	10.5	9.5	10.0	3.0	1.0	2.0	3.0	1.5	2.5	0.0	0.0	0.0
7	10.0	9.0	9.5	2.5	1.0	2.0	3.0	1.5	2.5	0.0	0.0	0.0
8	9.5	8.0	9.0	2.5	0.5	2.0	2.5	0.5	1.5	0.0	0.0	0.0
9	9.5	8.5	9.0	3.0	0.0	1.5	2.0	1.0	2.0	0.0	0.0	0.0
10	8.5	7.5	8.0	2.0	0.5	1.5	2.0	1.5	2.0	0.0	0.0	0.0
11	8.0	7.0	7.5	3.5	1.5	2.5	2.0	0.0	1.5	0.5	0.0	0.0
12	8.0	7.0	7.5	5.5	3.5	5.0	1.5	0.0	0.5	1.0	0.0	0.0
13	8.0	7.0	7.5	6.0	5.0	5.5	1.5	0.0	1.0	1.0	0.0	0.5
14	8.0	6.5	7.5	5.0	4.0	4.5	2.0	0.0	1.0	1.5	1.0	1.0
15	7.0	5.5	6.0	5.0	4.5	4.5	2.5	0.0	1.0	2.0	1.0	1.5
16	7.5	6.0	7.0	5.0	4.0	4.5	2.0	1.5	1.5	2.0	1.0	1.5
17	8.0	7.0	7.5	4.5	1.5	3.5	2.0	2.0	2.0	2.0	1.0	1.5
18	8.0	7.0	7.5	3.5	1.5	2.5	2.5	2.0	2.5	2.5	2.0	2.0
19	8.0	7.5	7.5	3.0	1.0	2.5	3.0	2.5	3.0	2.5	1.5	2.0
20	7.5	6.0	6.5	2.5	0.5	1.5	3.0	2.5	2.5	2.5	2.0	2.5
21	7.5	6.0	6.5	1.5	0.0	0.0	3.5	2.5	3.0	3.0	2.5	3.0
22	7.5	7.0	7.0	0.5	0.0	0.0	4.0	3.5	3.5	3.5	3.0	3.5
23	7.0	6.5	7.0	2.0	0.5	1.0	4.0	3.5	3.5	3.0	2.0	2.5
24	7.5	6.5	7.0	2.5	1.5	1.5	4.0	3.5	3.5	2.0	0.5	1.5
25	9.0	7.5	8.5	2.5	1.5	2.0	3.5	1.5	3.0	2.0	0.0	0.5
26	9.5	8.5	9.0	2.5	1.5	2.0	2.5	1.5	2.0	0.0	0.0	0.0
27	8.5	8.0	8.5	2.5	0.5	1.5	2.5	1.0	1.5	0.0	0.0	0.0
28	8.0	6.5	7.5	3.0	1.5	2.0	2.5	1.0	2.0	0.0	0.0	0.0
29	6.5	4.5	5.5	2.5	0.5	1.0	2.5	2.0	2.5	0.0	0.0	0.0
30	5.0	3.0	4.0	3.0	0.5	1.5	2.5	0.0	1.5	0.0	0.0	0.0
31	4.0	2.5	3.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	11.5	2.5	7.8	6.0	0.0	2.5	4.0	0.0	2.1	3.5	0.0	0.8

SOUTHEAST ALASKA

15081497 STANEY CREEK NEAR KLAWOCK—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
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	2.0	0.5	1.5	4.0	2.0	3.5	9.0	7.0	8.0
2	0.0	0.0	0.0	1.5	0.5	1.0	4.5	3.5	4.0	9.5	7.0	8.0
3	0.0	0.0	0.0	2.5	1.0	2.0	5.5	3.5	4.5	9.0	7.0	8.0
4	0.0	0.0	0.0	2.5	1.5	2.0	5.5	3.5	4.5	11.5	6.0	8.5
5	0.0	0.0	0.0	2.5	1.0	1.5	6.0	4.0	4.5	12.0	6.5	9.0
6	0.0	0.0	0.0	2.5	1.0	2.0	6.5	4.0	5.0	12.5	6.5	9.5
7	0.0	0.0	0.0	2.0	1.5	1.5	7.0	5.0	6.0	12.5	7.0	9.5
8	0.5	0.0	0.0	3.0	2.0	2.5	6.5	4.0	5.0	10.0	7.5	8.0
9	1.0	0.0	0.5	2.5	1.5	2.0	6.0	4.5	5.0	10.0	7.5	8.5
10	1.5	1.0	1.0	3.0	2.0	2.5	6.5	5.0	5.5	13.0	7.5	10.0
11	2.0	1.0	1.5	3.0	2.5	2.5	7.0	5.5	6.0	14.5	7.5	11.0
12	2.5	1.5	2.0	3.0	1.5	2.5	6.5	5.5	6.0	15.5	8.0	11.5
13	3.0	2.0	2.5	3.0	2.0	2.5	7.5	5.0	6.0	15.5	9.0	12.0
14	2.5	1.0	2.0	3.0	2.0	2.5	7.5	5.0	6.0	15.5	10.0	12.5
15	2.0	1.0	1.5	2.5	1.5	2.0	7.0	4.0	5.5	12.5	10.5	11.5
16	2.5	1.5	2.0	2.5	2.0	2.0	8.0	4.0	6.0	13.5	10.0	11.5
17	3.0	2.0	2.5	3.0	1.5	2.0	7.0	5.0	6.0	14.0	8.5	11.5
18	2.5	2.0	2.5	3.0	2.0	2.5	7.5	4.5	6.0	16.0	9.5	12.5
19	2.5	2.0	2.5	3.0	1.5	2.5	8.0	4.0	6.0	17.0	10.0	13.5
20	3.0	2.5	2.5	3.5	2.0	3.0	9.5	4.5	7.0	17.5	10.5	14.0
21	3.5	2.5	3.0	4.0	2.5	3.0	10.0	5.0	7.5	17.5	11.5	14.5
22	3.0	2.0	2.5	5.0	3.0	4.0	8.0	6.0	6.5	17.0	10.0	14.0
23	4.0	2.5	3.0	5.0	3.0	4.0	7.0	4.5	5.5	17.5	10.5	14.0
24	3.0	2.0	2.5	5.0	4.0	4.5	6.0	5.0	5.0	14.0	11.5	12.5
25	3.0	2.0	2.5	5.5	3.5	4.0	5.5	5.0	5.0	13.0	11.5	12.0
26	2.5	1.5	2.0	5.0	3.0	4.0	7.0	5.0	6.0	13.5	11.0	12.0
27	2.0	1.0	1.5	5.0	3.5	4.0	8.0	5.0	6.0	15.0	10.5	12.5
28	2.0	0.0	1.5	4.5	3.5	4.0	9.0	5.0	6.5	12.5	10.5	11.5
29	2.5	1.0	2.0	4.0	3.5	3.5	10.0	5.0	7.0	11.5	10.0	11.0
30	---	---	---	4.0	2.5	3.5	11.5	6.0	8.0	11.5	10.0	10.5
31	---	---	---	4.0	2.0	3.0	---	---	---	10.0	9.0	9.5
MONTH	4.0	0.0	1.5	5.5	0.5	2.7	11.5	2.0	5.7	17.5	6.0	11.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.0	8.0	9.0	18.0	16.0	17.0	16.5	14.0	15.0	15.0	11.0	13.0
2	9.5	8.0	9.0	17.0	16.0	16.5	15.5	13.5	14.0	13.5	11.0	12.5
3	13.0	8.0	10.0	18.0	15.5	17.0	15.0	12.5	13.5	13.0	12.0	12.5
4	11.5	9.5	10.5	17.0	15.5	16.5	15.5	12.0	14.0	13.0	11.5	12.0
5	15.0	10.5	12.5	16.5	14.0	15.5	15.0	13.0	14.0	12.0	10.0	11.0
6	14.0	11.0	12.5	14.0	11.5	13.0	14.0	11.5	13.0	12.5	10.5	11.5
7	17.5	11.5	14.5	14.5	11.0	12.5	14.5	11.0	12.5	12.5	11.0	11.5
8	16.5	13.0	14.5	17.0	12.5	14.5	15.5	12.0	13.5	12.0	10.0	11.0
9	17.0	13.0	14.5	17.5	13.5	15.0	18.0	12.5	15.5	13.0	10.0	11.5
10	14.5	12.5	14.0	16.0	14.5	15.0	17.5	14.0	16.0	11.5	9.5	10.5
11	13.0	12.0	12.5	17.0	14.0	15.0	18.5	14.5	16.5	12.5	10.0	11.0
12	13.5	11.5	12.5	19.5	13.0	16.5	18.5	14.5	16.5	11.5	10.0	11.0
13	13.0	12.5	12.5	21.0	14.5	18.0	19.0	14.0	17.0	11.5	10.5	11.0
14	13.5	12.5	13.0	22.0	15.5	18.5	20.0	14.0	17.5	11.0	9.5	10.5
15	13.0	12.0	12.5	23.0	15.5	19.5	20.0	16.0	18.5	10.5	9.0	10.0
16	17.5	12.5	14.5	20.0	16.0	18.0	20.5	16.5	19.0	10.0	8.0	9.0
17	20.0	13.5	16.5	18.5	16.0	17.0	19.5	17.0	17.5	10.5	7.5	9.0
18	21.0	15.0	18.0	21.0	14.0	17.0	19.0	16.5	17.5	11.0	9.0	10.0
19	22.0	16.5	19.5	18.5	16.0	16.5	18.0	14.5	17.0	10.0	8.0	9.0
20	23.5	17.5	20.5	17.0	15.0	16.0	18.5	16.5	17.5	10.0	8.5	9.0
21	23.0	18.0	20.5	17.5	15.5	16.5	19.0	15.5	17.5	10.5	9.5	10.5
22	20.5	18.5	19.5	20.0	13.5	17.0	19.0	14.5	17.0	10.0	10.0	10.0
23	21.5	17.0	19.5	20.5	14.0	17.5	17.5	13.5	16.0	10.5	10.0	10.0
24	20.5	17.5	19.0	18.5	16.5	17.5	17.0	12.0	15.0	10.5	10.0	10.5
25	19.0	17.0	17.5	19.5	16.0	17.5	17.0	12.0	15.0	10.0	9.0	9.5
26	17.0	16.0	16.0	17.0	15.5	16.0	15.5	13.0	14.0	10.0	8.5	9.0
27	16.0	15.5	16.0	19.5	15.5	17.0	15.0	13.0	14.0	10.5	9.0	9.5
28	17.0	15.0	16.0	18.0	16.5	17.5	15.0	12.5	13.5	9.5	7.5	8.5
29	17.0	15.5	16.5	16.5	14.5	15.5	16.0	13.0	14.5	9.5	8.0	8.5
30	18.5	16.0	17.0	17.0	14.0	15.5	14.5	12.5	13.5	9.5	7.5	8.5
31	---	---	---	18.5	13.0	15.5	15.0	11.0	13.0	---	---	---
MONTH	23.5	8.0	15.0	23.0	11.0	16.4	20.5	11.0	15.4	15.0	7.5	10.4

15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK

LOCATION.--Lat 55°33'26", long 133°01'01", in NW¹/₄ SW¹/₄ NW¹/₄ 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 mi²

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 ft³/s, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	8.1	168	7.2	3.8	4.2	16	8.8	37	1.8	13	7.4
2	8.2	6.7	147	e5.3	3.3	3.9	43	10	26	2.3	68	11
3	7.4	5.8	29	e4.3	3.2	6.1	42	22	14	3.3	35	135
4	7.4	5.0	15	e3.7	3.4	12	32	12	9.1	2.8	16	90
5	19	4.5	14	e3.3	72	17	15	9.2	7.3	56	22	22
6	28	4.1	11	e3.0	65	52	11	7.2	5.8	174	20	17
7	33	4.0	8.0	5.4	66	159	37	6.2	5.0	55	19	13
8	22	3.7	6.4	37	134	195	22	5.5	4.3	20	14	9.3
9	30	16	5.4	135	143	53	13	6.3	3.8	e11.8	9.1	7.9
10	47	30	6.1	126	71	34	30	7.8	3.4	e9.0	6.3	6.7
11	20	60	12	38	22	81	36	6.9	3.2	e7.5	4.9	6.0
12	12	329	27	48	14	34	20	6.3	3.7	e6.2	4.1	10
13	19	297	13	130	14	15	14	6.0	4.2	e5.8	3.5	70
14	41	48	8.0	194	16	15	11	5.9	3.9	4.6	3.1	31
15	15	26	227	66	10	32	8.5	5.6	3.4	3.6	2.7	32
16	19	16	170	26	8.4	101	6.5	5.1	3.1	6.4	2.4	13
17	36	17	104	97	27	29	6.2	4.9	2.7	11	2.4	8.5
18	28	14	203	145	92	14	8.5	4.9	2.4	7.1	2.4	10
19	31	9.1	346	57	44	9.2	6.9	5.1	2.1	5.2	4.7	7.1
20	22	8.0	83	59	78	8.1	5.9	5.2	1.8	4.9	8.3	62
21	20	10	141	67	52	9.1	5.4	5.1	1.6	19	5.4	250
22	57	39	393	101	22	33	19	4.7	1.5	11	4.2	72
23	57	25	171	74	14	25	31	4.3	1.4	6.2	3.3	218
24	76	87	39	22	11	24	113	7.0	1.3	8.5	2.8	170
25	404	56	27	e11	8.6	20	100	12	1.3	68	2.4	28
26	306	23	15	e6.8	7.0	15	83	62	1.5	40	5.6	12
27	131	14	10	e4.8	5.8	14	20	27	2.0	17	32	21
28	137	11	12	e3.6	5.1	87	11	13	1.9	25	26	16
29	27	15	15	e3.0	4.7	173	8.7	15	1.8	37	14	11
30	13	154	11	6.7	---	70	8.9	30	1.7	22	17	8.3
31	9.6	---	13	4.4	---	21	---	41	---	12	12	---
TOTAL	1691.7	1346.0	2449.9	1494.5	1020.3	1365.6	784.5	372.0	162.2	664.0	385.6	1375.2
MEAN	54.6	44.9	79.0	48.2	35.2	44.1	26.1	12.0	5.41	21.4	12.4	45.8
MAX	404	329	393	194	143	195	113	62	37	174	68	250
MIN	7.4	3.7	5.4	3.0	3.2	3.9	5.4	4.3	1.3	1.8	2.4	6.0
MED	27	15	15	26	14	24	15	6.9	3.1	9.0	6.3	15
AC-FT	3360	2670	4860	2960	2020	2710	1560	738	322	1320	765	2730
CFSM	11.5	9.49	16.7	10.2	7.44	9.31	5.53	2.54	1.14	4.53	2.63	9.69
IN.	13.30	10.59	19.27	11.75	8.02	10.74	6.17	2.93	1.28	5.22	3.03	10.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)#

	2001	2002	2003	2004
MEAN	50.0	40.4	59.8	49.3
MAX	56.3	44.9	79.0	59.4
(WY)	2002	2004	2004	2001
MIN	39.2	37.3	46.8	36.2
(WY)	2003	2002	2002	2003

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004#

ANNUAL TOTAL	13396.4	13111.5		
ANNUAL MEAN	36.7	35.8	35.2	
HIGHEST ANNUAL MEAN			37.1	2002
LOWEST ANNUAL MEAN			32.8	2003
HIGHEST DAILY MEAN	404	Oct 25	404	Oct 25 2003
LOWEST DAILY MEAN	2.0	Mar 12	a1.3	Jun 24 2004
ANNUAL SEVEN-DAY MINIMUM	2.5	May 5	1.5	Jun 20 2004
MAXIMUM PEAK FLOW			745	Oct 26 2003
MAXIMUM PEAK STAGE			10.40	Oct 26 2003
INSTANTANEOUS LOW FLOW			b1.2	Jun 23 2004
ANNUAL RUNOFF (AC-FT)	26570	26010	25520	
ANNUAL RUNOFF (CFSM)	7.76	7.57	7.45	
ANNUAL RUNOFF (INCHES)	105.36	103.12	101.18	
10 PERCENT EXCEEDS	106	98	89	
50 PERCENT EXCEEDS	15	13	16	

See Period of Record, partial years used in monthly statistics

a June 24 and 25.

b June 23-26.

e Estimated

15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	8.0	8.5	---	---	---	14.0	13.0	13.5	13.0	11.0	12.0
2	---	8.5	---	---	---	---	14.0	13.0	13.5	13.0	12.5	12.5
3	---	---	---	---	---	---	14.0	13.0	13.5	13.0	12.5	13.0
4	---	---	---	---	---	---	15.0	12.5	14.0	13.5	12.5	13.0
5	---	---	---	---	---	---	14.5	13.5	14.0	12.5	11.0	12.0
6	---	---	---	---	---	---	15.0	13.0	14.0	12.5	11.5	12.0
7	---	---	---	---	---	---	15.0	12.5	13.5	12.5	12.0	12.5
8	12.0	10.5	11.0	---	---	---	15.0	13.5	14.0	12.0	10.5	11.0
9	10.5	9.5	10.5	---	---	---	16.5	13.5	14.5	11.5	10.5	11.0
10	10.5	9.0	10.0	---	---	---	16.5	15.0	16.0	10.5	9.5	10.0
11	9.5	8.5	9.0	---	---	---	16.0	14.0	15.0	10.5	9.5	10.0
12	11.0	9.0	10.5	---	---	---	15.0	13.5	14.0	11.0	10.0	10.5
13	10.5	10.0	10.5	15.0	---	---	15.0	13.0	14.0	11.0	10.5	11.0
14	12.0	9.5	11.0	15.5	13.5	14.5	15.5	13.0	14.5	11.0	10.5	10.5
15	11.5	9.5	10.5	16.5	13.5	15.0	16.5	14.5	15.5	10.5	9.5	10.0
16	13.0	10.0	11.5	16.0	14.0	15.0	17.0	15.5	16.0	9.5	8.0	9.0
17	14.5	10.5	12.5	15.5	14.0	14.5	16.0	15.5	15.5	10.0	8.5	9.5
18	16.5	12.0	14.5	15.5	13.0	14.5	16.5	15.0	15.5	10.0	8.5	9.5
19	18.0	14.0	16.0	15.5	14.5	15.0	15.5	15.0	15.5	9.0	8.0	8.5
20	18.5	14.5	16.5	15.5	14.0	15.0	15.5	14.5	15.0	11.0	8.5	9.0
21	18.0	15.0	16.5	15.0	13.5	14.5	16.0	14.5	15.5	11.5	10.5	11.0
22	17.0	15.0	16.0	16.0	13.0	14.5	15.5	14.5	15.0	10.5	10.0	10.0
23	---	---	---	15.5	13.0	14.5	14.5	12.5	13.5	10.5	10.0	10.5
24	16.0	14.0	15.0	15.5	13.5	14.5	13.5	11.5	12.5	10.5	10.0	10.5
25	14.0	13.5	14.0	13.5	13.0	13.0	13.0	11.5	12.5	10.0	8.0	9.0
26	13.5	13.0	13.5	14.0	12.5	13.5	13.5	12.5	13.0	9.5	8.5	9.0
27	13.0	---	---	15.5	13.5	14.5	13.5	13.0	13.0	10.0	9.0	10.0
28	---	---	---	15.0	14.0	14.5	13.5	12.5	13.5	9.0	7.0	8.0
29	---	---	---	14.0	13.5	13.5	14.0	12.5	13.0	9.5	8.5	9.0
30	---	---	---	14.0	13.0	13.5	13.5	12.0	13.0	9.5	8.5	9.0
31	---	---	---	14.5	13.0	13.5	13.0	11.0	12.0	---	---	---
MONTH	---	---	---	---	---	---	17.0	11.0	14.1	13.5	7.0	10.4

SOUTHEAST ALASKA

15085100 OLD TOM CREEK NEAR KASAAN

LOCATION.--Lat 55°23'44", long 132°24'25", in NW¹/₄ SW¹/₄ 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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Oct 26	0245	717	4.97	Dec 23	0030	*983	*5.68
Dec 02	0700	564	4.58	Feb 17	1600	745	5.07
Dec 15	1630	*983	*5.68	Mar 29	1745	478	4.33
Dec 18	2315	932	5.55	Sep 24	0445	612	4.72

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	13	21	173	13	e6.0	11	30	16	26	3.9	2.3	3.7
2	11	18	212	e11	e6.0	9.7	91	17	22	3.9	11	3.4
3	10	15	57	e8.5	e6.2	12	63	34	17	3.5	10	14
4	9.2	13	42	e7.2	e7.0	13	41	22	13	3.2	7.2	29
5	32	12	60	e6.8	e100	27	29	18	13	5.8	6.0	11
6	61	11	52	e6.6	37	53	26	14	11	23	4.7	7.9
7	27	9.4	33	e12	21	163	57	12	9.6	11	3.9	6.2
8	24	8.4	25	e30	35	161	31	11	8.2	13	3.7	5.5
9	19	8.8	19	e150	73	69	23	10	7.0	9.1	3.3	4.6
10	19	10	16	146	65	36	43	9.4	6.5	6.9	3.0	4.1
11	21	14	24	52	37	39	41	9.0	6.2	6.0	2.5	4.2
12	17	96	31	113	30	39	32	8.5	71	5.1	2.4	38
13	20	244	25	245	37	26	24	8.2	54	4.5	2.2	72
14	23	104	18	200	30	23	20	7.8	24	3.9	2.0	23
15	16	194	530	83	20	37	17	7.7	17	3.6	1.9	18
16	56	89	194	54	28	58	14	7.3	13	4.0	1.9	13
17	73	64	105	210	427	32	12	6.9	11	3.8	2.0	9.5
18	62	46	293	197	238	22	12	6.8	9.2	3.6	1.9	8.3
19	40	31	615	64	68	17	11	7.0	7.8	3.6	e2.1	6.6
20	28	23	220	89	66	30	10	7.3	6.9	5.4	e2.5	7.2
21	90	18	287	68	55	27	9.3	7.5	6.2	6.7	e2.6	80
22	56	20	596	64	36	31	22	7.3	5.5	4.3	e2.1	42
23	53	24	394	39	48	30	22	6.8	4.8	3.3	e2.0	63
24	92	31	146	26	39	34	34	7.4	4.3	2.8	e2.0	241
25	413	48	107	18	25	43	103	8.0	4.1	2.6	e2.0	54
26	387	32	46	e11	20	25	97	7.3	4.1	2.4	e2.6	27
27	109	26	31	e8.0	15	20	40	6.9	4.9	2.4	3.1	24
28	101	20	21	e6.5	13	156	26	7.4	4.3	2.4	3.6	18
29	54	26	16	e7.0	12	259	20	14	4.0	2.4	3.8	14
30	35	94	15	e6.8	---	123	17	19	3.9	2.2	4.0	11
31	27	---	14	e6.6	---	45	---	22	---	2.0	4.3	---
TOTAL	1998.2	1370.6	4417	1959.0	1600.2	1670.7	1017.3	353.5	399.5	160.3	108.6	863.2
MEAN	64.5	45.7	142	63.2	55.2	53.9	33.9	11.4	13.3	5.17	3.50	28.8
MAX	413	244	615	245	427	259	103	34	71	23	11	241
MIN	9.2	8.4	14	6.5	6.0	9.7	9.3	6.8	3.9	2.0	1.9	3.4
AC-FT	3960	2720	8760	3890	3170	3310	2020	701	792	318	215	1710
CFMS	10.9	7.74	24.1	10.7	9.35	9.13	5.75	1.93	2.26	0.88	0.59	4.88
IN.	12.60	8.64	27.85	12.35	10.09	10.53	6.41	2.23	2.52	1.01	0.68	5.44

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

	MEAN	70.0	65.9	60.6	50.1	45.2	39.0	47.8	42.4	25.9	13.0	15.2	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	5.45	2.66	1.81	2.69	
(WY)	2003	1966	1984	1950	1950	1956	1967	2004	1958	1958	1993	1965	

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

15085100 OLD TOM CREEK NEAR KASAAN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004#	
ANNUAL TOTAL	19689.8		15918.1			
ANNUAL MEAN	53.9		43.5		42.3	
HIGHEST ANNUAL MEAN					63.1 2000	
LOWEST ANNUAL MEAN					25.2 1951	
HIGHEST DAILY MEAN	615	Dec 19	615	Dec 19	858	Oct 23 1990
LOWEST DAILY MEAN	1.4	Aug 13	a1.9	Aug 15	0.28	Nov 14 1965
ANNUAL SEVEN-DAY MINIMUM	1.7	Aug 8	2.0	Aug 13	0.55	Nov 13 1965
MAXIMUM PEAK FLOW			b983	Dec 15	c1490	Apr 16 1952
MAXIMUM PEAK STAGE			5.68	Dec 15	6.96	Apr 16 1952
INSTANTANEOUS LOW FLOW			1.4	Aug 16	0.16	Nov 15 1965
ANNUAL RUNOFF (AC-FT)	39050		31570		30620	
ANNUAL RUNOFF (CFSM)	9.14		7.37		7.16	
ANNUAL RUNOFF (INCHES)	124.15		100.36		97.34	
10 PERCENT EXCEEDS	118		100		94	
50 PERCENT EXCEEDS	23		18		24	
90 PERCENT EXCEEDS	6.2		3.7		6.5	

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

a August 15, 16, and 18

b December 15 and 23

c From rating curve extended above 330 ft³/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.--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 October 28 and January 13. 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, 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, 18.5°C, June 23; minimum, 0.0°C, on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Stream width, feet (000004)	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)
OCT							
28...	1429	41.5	1.0	2.74	101	7.5	6.0
28...	1430	41.5	6.0	2.74	101	7.5	6.0
28...	1431	41.5	11.0	2.74	101	7.5	6.0
28...	1432	41.5	16.0	2.74	101	7.5	6.0
28...	1433	41.5	21.0	2.74	101	7.5	6.0
28...	1434	41.5	26.0	2.74	101	7.5	6.0
28...	1435	41.5	31.0	2.74	101	7.5	6.0
28...	1436	41.5	36.0	2.74	101	7.5	6.0
JAN							
13...	1121	47.0	42.0	3.48	236	2.5	3.0
13...	1122	47.0	33.0	3.48	236	2.5	3.0
13...	1123	47.0	24.0	3.48	236	2.5	3.0
13...	1124	47.0	15.0	3.48	236	2.5	3.0
13...	1125	47.0	6.0	3.48	236	2.5	3.0

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

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	9.5	10.0	5.0	4.5	5.0	3.5	2.5	3.0	1.5	1.0	1.5			
2	10.5	9.5	10.0	5.0	4.0	4.5	3.5	3.0	3.0	1.0	0.0	0.5			
3	10.5	9.5	10.0	4.5	3.5	4.0	3.0	2.5	2.5	0.0	0.0	0.0			
4	10.5	9.5	10.0	3.5	2.5	3.0	3.0	2.5	2.5	0.0	0.0	0.0			
5	10.0	9.0	9.5	2.5	2.0	2.5	3.0	2.5	3.0	0.0	0.0	0.0			
6	10.5	9.5	10.0	2.0	1.5	2.0	3.5	3.0	3.0	0.0	0.0	0.0			
7	10.0	9.0	9.5	2.0	2.0	2.0	3.5	2.5	3.0	0.0	0.0	0.0			
8	9.5	9.0	9.0	3.0	2.0	2.5	3.0	2.5	2.5	0.0	0.0	0.0			
9	9.5	9.0	9.0	3.5	3.0	3.0	2.5	1.5	2.0	0.0	0.0	0.0			
10	9.0	8.0	8.5	4.0	3.0	3.5	2.0	1.5	1.5	1.5	0.0	1.0			
11	8.5	8.0	8.0	4.5	3.5	4.0	2.5	2.0	2.0	2.0	1.5	1.5			
12	8.5	7.5	8.0	6.0	4.5	5.5	2.5	2.0	2.5	2.0	1.5	1.5			
13	8.0	7.5	8.0	6.5	5.0	6.0	2.5	2.0	2.0	2.5	2.0	2.0			
14	8.0	7.0	7.5	5.0	4.5	5.0	2.0	1.5	1.5	2.5	2.5	2.5			
15	7.5	6.5	7.0	5.5	5.0	5.0	3.0	1.5	2.5	2.5	2.5	2.5			
16	8.0	7.0	7.5	5.0	5.0	5.0	3.0	3.0	3.0	2.5	2.0	2.0			
17	8.5	8.0	8.0	5.0	4.0	4.5	3.0	3.0	3.0	3.0	2.0	2.5			
18	9.0	8.0	8.5	4.0	3.5	4.0	3.5	3.0	3.5	3.0	2.5	3.0			
19	8.5	8.0	8.5	3.5	3.0	3.5	4.0	3.5	4.0	3.0	2.5	3.0			
20	8.0	7.0	7.5	3.0	1.5	2.5	3.5	3.0	3.5	3.0	3.0	3.0			
21	8.5	7.5	8.0	2.0	1.0	1.5	4.0	3.0	3.5	3.5	3.0	3.5			
22	8.0	8.0	8.0	2.5	1.5	2.0	4.5	4.0	4.0	3.5	3.0	3.5			
23	8.0	7.5	7.5	2.5	2.5	2.5	4.5	4.0	4.0	3.0	2.5	3.0			
24	8.0	7.5	8.0	3.0	2.5	2.5	4.0	4.0	4.0	2.5	1.0	2.0			
25	9.0	8.0	8.5	3.0	2.5	3.0	4.0	3.0	3.5	1.0	0.0	0.5			
26	9.0	8.5	9.0	3.0	2.0	2.5	3.0	2.5	2.5	0.0	0.0	0.0			
27	8.5	8.5	8.5	2.5	1.5	2.0	2.5	2.0	2.0	0.0	0.0	0.0			
28	8.5	7.0	7.5	2.5	1.5	2.0	2.0	0.5	1.0	0.0	0.0	0.0			
29	7.0	5.5	6.0	2.5	2.0	2.0	1.0	0.5	1.0	0.0	0.0	0.0			
30	5.5	4.5	5.0	2.5	2.0	2.5	1.5	0.5	1.0	0.0	0.0	0.0			
31	5.0	4.0	4.5	---	---	---	2.0	1.5	2.0	0.0	0.0	0.0			
MONTH	10.5	4.0	8.2	6.5	1.0	3.3	4.5	0.5	2.6	3.5	0.0	1.3			

15085100 OLD TOM CREEK NEAR KASAAN—Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.5	1.5	2.0	4.0	2.5	3.5	9.0	7.5	8.0
2	0.0	0.0	0.0	2.5	1.5	2.0	4.0	3.5	3.5	8.0	7.0	7.5
3	0.0	0.0	0.0	3.0	2.0	2.5	4.5	3.5	4.0	7.5	6.5	7.0
4	0.0	0.0	0.0	3.0	2.0	2.5	4.5	3.5	4.0	9.0	6.0	7.5
5	0.5	0.0	0.0	2.5	1.5	2.0	5.0	3.5	4.0	9.5	6.5	7.5
6	1.5	0.5	1.0	2.5	2.0	2.0	5.5	4.0	4.5	9.5	6.0	7.5
7	2.0	1.0	1.5	3.0	2.5	2.5	5.5	4.0	4.5	9.5	6.0	7.5
8	2.0	1.5	1.5	3.0	3.0	3.0	6.0	4.0	4.5	8.5	7.0	8.0
9	2.0	1.0	1.5	3.0	2.5	2.5	5.0	4.5	5.0	9.0	7.5	8.0
10	2.0	1.5	2.0	3.5	2.5	3.0	5.0	4.5	5.0	10.5	7.5	8.5
11	2.0	1.5	2.0	3.5	3.0	3.0	6.0	5.0	5.5	11.0	7.0	8.5
12	2.5	2.0	2.5	3.0	2.5	3.0	6.5	5.0	5.5	11.0	7.5	9.0
13	3.0	2.0	2.5	3.0	2.5	3.0	6.5	4.5	5.0	11.0	8.0	9.5
14	2.5	2.0	2.0	3.0	2.5	2.5	6.5	4.0	5.0	12.0	8.5	10.0
15	2.0	2.0	2.0	3.5	2.5	3.0	6.5	4.0	5.0	10.5	9.0	9.5
16	2.5	2.0	2.5	3.5	3.0	3.0	6.0	4.0	5.0	10.5	9.0	9.5
17	2.5	2.0	2.5	3.0	3.0	3.0	5.5	4.5	5.0	11.0	8.0	9.5
18	3.0	2.5	2.5	3.0	2.5	2.5	5.5	4.0	4.5	12.5	8.5	10.0
19	3.0	2.5	3.0	2.5	2.0	2.5	6.0	3.5	4.5	13.0	9.0	10.5
20	3.0	3.0	3.0	2.5	2.0	2.0	7.5	4.0	5.5	14.0	10.0	11.5
21	3.5	2.5	3.0	3.0	2.5	3.0	7.5	4.0	5.5	14.0	10.5	12.0
22	3.0	2.5	3.0	3.5	3.0	3.0	6.0	5.0	5.5	13.5	9.5	11.0
23	3.5	3.0	3.0	3.5	3.0	3.5	6.0	4.5	5.0	13.5	9.5	11.0
24	3.0	2.5	3.0	4.0	3.5	3.5	5.5	5.0	5.0	11.5	10.5	11.0
25	3.5	2.5	2.5	4.0	3.5	3.5	6.0	5.0	5.5	11.5	10.5	11.0
26	2.5	2.0	2.0	4.0	3.0	3.5	7.0	5.5	6.0	12.0	10.0	11.0
27	2.0	1.5	2.0	4.0	3.5	4.0	8.0	5.5	6.5	11.0	9.5	10.0
28	2.5	1.5	2.0	4.0	3.5	4.0	8.5	5.5	6.5	11.0	9.5	10.0
29	3.0	2.5	2.5	4.0	3.5	4.0	9.0	5.5	7.0	9.5	8.5	9.5
30	---	---	---	4.0	3.0	3.5	9.5	6.0	7.5	9.5	8.5	9.0
31	---	---	---	4.0	2.5	3.5	---	---	---	9.5	8.5	9.0
MONTH	3.5	0.0	1.9	4.0	1.5	2.9	9.5	2.5	5.1	14.0	6.0	9.3
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.0	8.0	8.5	14.5	13.0	14.0	14.0	12.5	13.5	13.0	11.0	12.0
2	9.0	8.0	8.5	14.5	13.0	13.5	13.0	12.5	13.0	12.5	11.0	11.5
3	11.0	8.0	9.5	14.5	13.0	13.5	13.0	12.0	12.5	12.5	11.5	12.0
4	10.5	9.0	10.0	13.5	12.0	13.0	14.0	12.0	12.5	12.5	11.5	12.0
5	12.0	9.5	10.5	13.5	12.0	13.0	14.5	12.5	13.0	12.0	11.0	11.5
6	11.0	9.5	10.5	12.0	11.0	11.5	15.0	12.5	13.5	12.0	10.5	11.5
7	13.5	10.0	11.5	12.5	11.0	11.5	15.0	12.0	13.0	12.5	11.5	12.0
8	13.5	11.0	12.0	13.5	11.0	12.0	14.5	13.0	13.5	12.5	11.0	11.5
9	13.0	10.5	11.5	15.0	12.0	13.0	16.0	12.5	13.5	12.0	11.0	11.5
10	11.0	9.5	10.5	13.0	12.5	13.0	15.5	13.0	14.0	11.5	10.0	10.5
11	11.0	9.5	10.0	13.5	12.5	13.0	16.0	13.5	14.5	11.5	10.0	10.5
12	10.0	9.0	9.5	15.5	11.5	13.0	16.0	13.0	14.0	11.0	10.0	10.5
13	9.5	9.0	9.0	16.0	12.0	14.0	15.5	13.0	14.0	11.5	10.5	11.0
14	10.5	9.0	9.5	17.0	13.0	14.5	16.5	13.0	14.5	11.5	10.5	11.0
15	11.5	9.5	10.5	17.5	13.5	15.0	16.0	14.0	15.0	11.0	10.0	10.5
16	13.5	10.0	11.0	15.0	14.0	14.5	17.0	14.0	15.0	10.5	9.5	10.0
17	14.5	10.5	12.0	16.0	13.5	14.5	15.5	14.5	15.0	10.0	9.0	9.5
18	16.0	11.5	13.5	16.5	13.0	14.5	16.5	14.5	15.0	11.0	9.5	10.0
19	17.0	13.0	14.5	15.0	14.0	14.5	---	14.5	---	10.0	8.5	9.0
20	17.5	13.5	15.0	15.0	13.0	14.0	---	---	---	10.0	9.0	9.0
21	17.5	14.0	15.5	14.0	12.5	13.5	---	---	---	11.0	10.0	10.5
22	18.0	14.5	16.0	16.0	12.0	13.5	---	---	---	11.0	10.5	10.5
23	18.5	14.5	16.0	16.5	12.5	14.0	---	---	---	11.0	10.5	10.5
24	17.5	14.5	15.5	16.0	13.5	14.5	---	---	---	11.5	10.5	11.0
25	15.0	14.0	14.5	14.5	13.5	14.0	---	---	---	10.5	9.5	10.0
26	14.0	13.5	14.0	14.5	13.0	14.0	13.0	---	---	10.5	9.5	10.0
27	14.0	13.0	13.5	16.5	13.5	14.5	13.5	12.5	13.0	10.5	10.0	10.5
28	13.5	12.5	13.0	15.5	14.0	15.0	13.5	12.0	12.5	10.0	8.5	9.0
29	14.0	13.0	13.5	15.0	14.0	14.5	13.5	12.0	12.5	10.0	8.5	9.5
30	14.5	13.0	13.5	14.5	13.5	14.0	13.0	12.0	12.5	9.5	8.5	9.0
31	---	---	---	14.5	12.0	13.5	13.0	11.0	12.0	---	---	---
MONTH	18.5	8.0	12.1	17.5	11.0	13.7	---	---	---	13.0	8.5	10.6

15085800 MAYBESO CREEK NEAR HOLLIS

LOCATION.-- Lat 55°29'26", long 132°40'31", in SW¹/₄SE¹/₄SE¹/₄ sec. 32 T. 73 S., R. 84 E. (Craig B-3 quad), on Prince of Wales Island, on right bank 600 ft downstream from unnamed tributary, 2,400 ft upstream from mouth, and 1/2 mi northwest of Hollis.

DRAINAGE AREA.-- 15.1 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949, 1956, 1959, and 2004.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 2003 to September 2004.

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

REMARKS.--Daily discharge not published for 2004 due to lack of rating development. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on April 1, 2004. No variation was found within the cross section, or between mean stream temperature and sensor temperature. Missing record January 23 to May 5, and September 14 due to recorder malfunction.

EXTREMES FOR CURRENT YEAR.--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Stream width, feet (000004)	Location in X-sect. looking downstrm ft from l bank (000009)	Gage height, feet (000065)	Instantaneous discharge, cfs (000061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
APR							
01...	1710	60.0	5.00	2.45	70	3.5	5.0
01...	1711	60.0	15.0	2.45	70	3.5	5.0
01...	1712	60.0	25.0	2.45	70	3.5	5.0
01...	1713	60.0	35.0	2.45	70	3.5	5.0
01...	1714	60.0	45.0	2.45	70	3.5	5.0
01...	1715	60.0	55.0	2.45	70	3.5	5.0

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	4.5	4.0	4.5	2.0	1.0	2.0	1.5	0.5	1.5
2	---	---	---	4.5	3.5	4.0	2.5	2.0	2.0	0.5	0.0	0.0
3	---	---	---	4.0	3.0	3.5	2.0	1.5	2.0	0.0	0.0	0.0
4	---	---	---	3.5	2.5	3.0	2.5	2.0	2.5	0.0	0.0	0.0
5	---	---	---	2.5	2.0	2.5	2.5	2.0	2.5	0.0	0.0	0.0
6	---	---	---	2.5	1.5	2.0	2.5	2.0	2.5	0.0	0.0	0.0
7	---	---	---	3.0	2.0	2.5	2.5	2.5	2.5	0.0	0.0	0.0
8	---	---	---	3.0	2.0	2.5	2.5	2.5	2.5	0.5	0.0	0.0
9	---	---	---	3.5	3.0	3.0	2.5	1.5	2.0	0.0	0.0	0.0
10	---	---	---	3.5	2.5	3.0	2.0	1.0	1.5	0.5	0.0	0.0
11	---	---	---	4.0	3.0	3.5	2.5	1.5	2.0	1.5	0.5	1.0
12	---	---	---	6.0	4.0	5.0	2.0	1.5	2.0	1.5	1.0	1.5
13	---	---	---	6.5	4.5	6.0	2.0	1.5	2.0	2.0	1.0	1.5
14	---	---	---	5.0	4.5	4.5	1.5	1.0	1.0	2.0	2.0	2.0
15	---	---	---	5.0	4.5	4.5	1.5	1.0	1.5	2.0	2.0	2.0
16	---	---	---	5.0	4.5	4.5	2.0	1.5	2.0	2.0	2.0	2.0
17	---	---	---	4.5	3.0	4.0	2.0	2.0	2.0	2.5	2.0	2.0
18	---	---	---	3.5	3.0	3.0	2.5	2.0	2.5	2.5	2.0	2.5
19	---	---	---	3.0	2.0	3.0	2.5	2.0	2.5	3.0	2.0	2.5
20	---	---	---	2.0	1.0	2.0	2.5	2.5	2.5	3.0	2.5	3.0
21	---	---	---	2.0	1.0	1.5	3.0	2.5	2.5	3.5	3.0	3.0
22	---	---	---	2.0	1.0	1.5	3.0	3.0	3.0	3.5	3.0	3.0
23	---	---	---	2.0	1.0	1.5	3.5	3.0	3.0	---	---	---
24	---	---	---	2.0	1.5	1.5	3.5	3.0	3.5	---	---	---
25	---	---	---	1.5	1.0	1.5	3.5	2.0	2.5	---	---	---
26	---	---	---	2.0	1.5	2.0	2.0	2.0	2.0	---	---	---
27	---	---	---	2.0	0.5	1.5	2.0	1.5	2.0	---	---	---
28	---	---	---	1.5	0.5	1.5	1.5	0.5	1.0	---	---	---
29	---	---	---	1.5	1.0	1.0	1.5	0.5	1.0	---	---	---
30	---	---	---	1.5	0.0	1.0	1.5	1.0	1.0	---	---	---
31	4.5	3.5	4.0	---	---	---	2.0	1.5	1.5	---	---	---
MONTH	---	---	---	6.5	0.0	2.8	3.5	0.5	2.1	---	---	---

15085800 MAYBESO CREEK NEAR HOLLIS—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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	9.0	5.0	7.0
7	---	---	---	---	---	---	---	---	---	9.0	5.5	7.0
8	---	---	---	---	---	---	---	---	---	7.5	6.0	6.5
9	---	---	---	---	---	---	---	---	---	8.0	6.5	7.0
10	---	---	---	---	---	---	---	---	---	9.0	6.0	7.5
11	---	---	---	---	---	---	---	---	---	9.5	6.0	7.5
12	---	---	---	---	---	---	---	---	---	10.0	6.0	8.0
13	---	---	---	---	---	---	---	---	---	10.0	7.0	8.5
14	---	---	---	---	---	---	---	---	---	10.0	7.0	8.5
15	---	---	---	---	---	---	---	---	---	9.5	7.5	8.5
16	---	---	---	---	---	---	---	---	---	9.0	7.5	8.5
17	---	---	---	---	---	---	---	---	---	10.0	7.0	8.5
18	---	---	---	---	---	---	---	---	---	11.0	7.5	9.0
19	---	---	---	---	---	---	---	---	---	11.5	7.5	9.5
20	---	---	---	---	---	---	---	---	---	12.0	8.0	10.0
21	---	---	---	---	---	---	---	---	---	12.0	8.5	10.0
22	---	---	---	---	---	---	---	---	---	11.5	8.0	10.0
23	---	---	---	---	---	---	---	---	---	12.0	8.0	10.0
24	---	---	---	---	---	---	---	---	---	10.0	9.0	9.5
25	---	---	---	---	---	---	---	---	---	10.0	8.5	9.5
26	---	---	---	---	---	---	---	---	---	10.0	8.5	9.0
27	---	---	---	---	---	---	---	---	---	9.5	7.5	8.5
28	---	---	---	---	---	---	---	---	---	9.5	8.0	9.0
29	---	---	---	---	---	---	---	---	---	9.0	8.0	8.5
30	---	---	---	---	---	---	---	---	---	9.0	7.5	8.5
31	---	---	---	---	---	---	---	---	---	9.0	8.0	8.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.0	7.5	8.0	15.0	13.0	14.0	14.0	12.5	13.0	12.5	10.5	11.5
2	9.5	7.5	8.5	14.5	13.0	13.5	13.0	12.5	12.5	12.0	10.5	11.5
3	11.0	7.0	9.0	15.0	13.0	14.0	13.5	12.0	13.0	12.0	11.5	12.0
4	9.5	8.5	9.0	14.0	12.5	13.5	14.5	12.0	13.5	12.5	11.0	11.5
5	11.0	8.5	10.0	14.0	11.5	13.0	15.0	12.5	13.5	11.5	10.0	11.0
6	10.5	8.5	9.5	11.5	11.0	11.0	15.0	12.5	13.5	11.5	10.5	11.0
7	13.5	9.0	11.0	12.5	11.0	11.5	15.0	12.0	13.5	12.0	11.0	11.5
8	12.5	9.5	11.0	13.0	11.0	12.0	14.0	12.5	13.0	12.0	10.5	11.0
9	12.0	10.0	10.5	15.0	11.5	13.0	15.0	12.0	13.5	11.5	10.5	11.0
10	11.0	9.0	10.0	13.5	12.5	13.0	15.5	12.5	14.0	11.0	9.5	10.5
11	10.0	9.0	9.5	13.5	12.0	12.5	15.0	13.0	14.0	11.5	10.0	10.5
12	10.5	9.0	9.5	15.0	11.0	13.0	15.5	12.5	14.0	10.5	10.0	10.5
13	10.0	9.0	9.5	16.0	11.5	13.5	15.5	12.5	14.0	11.0	10.5	10.5
14	10.0	9.0	9.5	16.0	12.5	14.5	15.5	12.5	14.0	---	---	---
15	11.5	8.5	10.0	17.0	13.0	15.0	16.0	13.5	14.5	10.5	9.0	10.0
16	13.5	9.0	11.0	15.5	14.0	15.0	16.5	14.0	15.0	10.0	9.0	9.5
17	14.5	10.0	12.0	15.0	14.0	14.5	15.0	14.5	14.5	10.5	8.5	9.5
18	15.5	11.0	13.0	16.5	13.0	14.5	16.0	14.0	15.0	10.5	9.0	9.5
19	16.5	12.0	14.0	14.5	13.5	14.0	15.0	14.0	14.5	10.0	8.0	9.0
20	17.0	12.5	15.0	15.0	13.0	14.0	15.5	14.0	14.5	10.0	8.5	9.0
21	17.0	13.5	15.0	15.5	13.0	14.0	15.5	13.5	14.5	10.5	9.5	10.0
22	17.0	14.0	15.5	16.0	12.5	14.0	15.5	13.5	14.5	10.0	9.5	9.5
23	17.5	14.0	16.0	16.5	13.0	14.5	14.5	12.5	13.5	10.0	9.5	10.0
24	17.5	14.5	16.0	15.5	13.5	14.5	14.5	11.5	13.0	10.0	9.0	10.0
25	15.5	14.5	15.0	15.0	13.5	14.0	14.0	11.5	13.0	9.5	8.5	9.0
26	14.5	13.5	14.0	14.5	13.0	13.5	13.5	11.5	12.5	9.0	8.5	9.0
27	14.0	13.0	13.5	15.5	13.0	14.0	13.5	12.5	13.0	10.0	9.0	9.5
28	14.0	12.5	13.5	15.0	14.0	14.5	13.5	12.0	12.5	9.0	8.0	8.5
29	13.5	13.0	13.0	15.0	13.0	14.0	13.0	11.5	12.5	9.0	8.0	8.5
30	14.5	12.5	13.5	14.5	13.0	13.5	13.0	11.5	12.0	9.0	8.0	8.5
31	---	---	---	14.5	12.0	13.5	13.0	11.0	12.0	---	---	---
MONTH	17.5	7.0	11.8	17.0	11.0	13.6	16.5	11.0	13.5	---	---	---

15087080 UPPER EARL WEST CREEK NEAR WRANGELL

LOCATION.--Lat 56°17'09", long 132°07'51", in SW¹/₄ SE¹/₄ SE¹/₄ sec. 27, T. 64 S., R. 86 E. (Petersburg B-1 quad.)
 Hydrologic Unit 19010202, on right bank 150 ft upstream from the bridge on USFS road #6270, 5.0 mi upstream from the mouth, 26.6 mi south of Wrangell.

DRAINAGE AREA.--3.3 mi²

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2003 to September 2004.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 2003 to September 2004.

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

REMARKS.--Probe installed on October 13. Water-discharge records are computed daily. Missing record October 13-30, January 27-February 11, 14, and May 18-June 29 due to 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 October 13, and June 29. No variation was found within the cross sections. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 20.5°C, July 15; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Medium code	Stream width, ft (00004)	Location in X-sect. looking downstrm 1 bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
OCT								
13...	1100	9	26.5	25.0	8.56	9.9	6.0	5.5
13...	1101	9	26.5	23.0	8.56	9.2	6.0	5.5
13...	1102	9	26.5	21.0	8.56	9.9	6.0	5.5
13...	1103	9	26.5	19.0	8.56	9.9	6.0	5.5
13...	1104	9	26.5	13.0	8.56	9.9	6.0	5.5
13...	1105	9	26.5	9.00	8.56	9.9	6.0	5.5
13...	1106	9	26.5	5.00	8.56	9.9	6.0	5.5
13...	1107	9	26.5	1.00	8.56	9.9	6.0	5.5
JUN								
29...	1447	9	--	1.00	8.10	.64	17.5	16.2
29...	1448	9	--	5.00	8.10	.64	17.5	16.2
29...	1449	9	--	9.00	8.10	.64	17.5	16.2
29...	1450	9	--	13.0	8.10	.64	17.5	16.2
29...	1451	9	--	17.0	8.10	.64	17.5	16.2

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
2	---	---	---	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
3	---	---	---	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
4	---	---	---	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5	---	---	---	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
6	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	---	---	---	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
8	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	---	---	---	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
12	---	---	---	3.0	0.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
13	---	---	---	4.0	2.5	3.0	0.0	0.0	0.0	0.5	0.0	0.0
14	---	---	---	3.0	2.5	2.5	0.0	0.0	0.0	1.0	0.5	0.5
15	---	---	---	3.0	2.5	2.5	0.0	0.0	0.0	1.0	0.5	0.5
16	---	---	---	3.0	2.5	2.5	0.0	0.0	0.0	1.0	0.5	0.5
17	---	---	---	3.0	1.0	2.0	0.5	0.0	0.5	1.0	0.5	1.0
18	---	---	---	1.0	0.5	0.5	1.0	0.0	0.5	1.0	0.5	1.0
19	---	---	---	0.5	0.0	0.0	1.0	0.0	0.5	1.5	1.0	1.0
20	---	---	---	0.0	0.0	0.0	1.0	1.0	1.0	1.5	1.0	1.0
21	---	---	---	0.0	0.0	0.0	1.5	0.5	1.0	1.5	1.0	1.5
22	---	---	---	0.0	0.0	0.0	1.0	0.5	0.5	1.5	1.0	1.5
23	---	---	---	0.0	0.0	0.0	1.0	1.0	1.0	1.5	0.5	1.0
24	---	---	---	0.0	0.0	0.0	1.5	1.0	1.5	1.0	0.0	0.5
25	---	---	---	0.0	0.0	0.0	1.5	0.5	1.0	0.0	0.0	0.0
26	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
27	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
28	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
29	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
30	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
31	2.0	1.0	1.5	---	---	---	0.0	0.0	0.0	---	---	---
MONTH	---	---	---	4.0	0.0	0.6	1.5	0.0	0.2	---	---	---

15087080 UPPER EARL WEST CREEK NEAR WRANGELL—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
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	1.5	0.0	0.5	2.5	1.0	2.0	0.5	0.5	0.5
2	---	---	---	1.0	0.0	0.5	2.5	1.0	1.5	0.5	0.5	0.5
3	---	---	---	0.5	0.0	0.5	2.0	1.0	1.5	0.5	0.5	0.5
4	---	---	---	1.0	0.0	0.5	2.5	1.0	1.5	0.5	0.5	0.5
5	---	---	---	0.0	0.0	0.0	3.0	1.0	2.0	0.5	0.0	0.5
6	---	---	---	0.5	0.0	0.0	4.0	1.0	2.5	0.5	0.0	0.5
7	---	---	---	0.0	0.0	0.0	3.0	1.5	2.0	0.5	0.5	0.5
8	---	---	---	0.5	0.0	0.0	4.0	1.5	2.0	0.5	0.5	0.5
9	---	---	---	1.0	0.0	0.5	2.5	1.5	2.0	0.5	0.5	0.5
10	---	---	---	0.5	0.0	0.5	2.5	1.5	2.0	1.0	0.5	0.5
11	---	0.0	---	1.0	0.5	0.5	3.5	1.5	2.0	1.0	0.5	0.5
12	0.0	0.0	0.0	1.5	0.0	1.0	2.5	1.5	2.0	1.0	0.5	0.5
13	0.0	0.0	0.0	1.0	0.5	0.5	4.0	1.5	2.5	1.0	0.5	0.5
14	0.5	0.0	0.0	1.5	0.5	1.0	5.0	1.5	2.5	1.0	0.5	0.5
15	0.5	0.0	0.0	1.0	0.0	0.5	4.0	1.0	2.5	0.5	0.5	0.5
16	1.0	0.0	0.5	1.0	0.0	0.5	4.5	1.0	3.0	0.5	0.5	0.5
17	1.0	0.5	0.5	1.5	0.0	0.5	4.0	2.0	3.0	0.5	0.5	0.5
18	1.0	0.5	0.5	1.0	0.5	0.5	3.5	2.0	3.0	---	0.5	---
19	1.0	0.5	0.5	1.5	0.0	0.5	4.5	1.5	3.0	---	---	---
20	1.0	0.5	1.0	2.5	0.5	1.0	5.5	1.5	3.0	---	---	---
21	1.5	0.5	1.0	2.5	0.5	1.5	5.0	1.5	3.0	---	---	---
22	1.5	0.5	1.0	3.0	1.0	2.0	3.0	2.0	2.5	---	---	---
23	2.0	1.0	1.5	3.0	0.0	1.5	3.5	1.5	2.5	---	---	---
24	1.5	0.5	1.0	3.0	1.0	2.0	2.5	2.0	2.5	---	---	---
25	1.0	0.0	0.5	2.5	1.0	1.5	2.5	2.0	2.0	---	---	---
26	1.5	0.0	0.5	2.5	0.5	1.5	3.0	0.0	2.0	---	---	---
27	1.0	0.0	0.5	2.0	1.0	1.5	0.5	0.0	0.5	---	---	---
28	1.0	0.0	0.5	1.0	0.5	1.0	0.5	0.0	0.5	---	---	---
29	1.5	0.0	0.5	1.5	1.0	1.0	0.5	0.0	0.5	---	---	---
30	---	---	---	1.5	0.5	1.0	0.5	0.0	0.5	---	---	---
31	---	---	---	2.0	0.0	1.0	---	---	---	---	---	---
MONTH	---	---	---	3.0	0.0	0.8	5.5	0.0	2.1	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	17.5	15.5	16.5	16.0	13.5	15.0	15.0	11.0	13.0
2	---	---	---	17.0	16.0	16.5	15.0	12.5	13.5	14.0	12.0	12.5
3	---	---	---	18.0	15.0	16.5	14.0	12.5	13.5	12.5	11.5	12.0
4	---	---	---	18.0	15.5	16.5	16.5	12.5	14.5	12.0	11.0	11.5
5	---	---	---	17.0	15.5	16.0	15.0	13.0	13.5	12.0	10.0	11.0
6	---	---	---	15.5	11.0	11.5	13.5	12.5	13.0	12.0	11.5	11.5
7	---	---	---	12.0	11.0	11.5	14.5	12.0	13.0	11.5	10.5	11.0
8	---	---	---	13.5	11.0	12.0	15.0	12.0	13.5	12.0	9.5	10.5
9	---	---	---	16.5	13.0	14.0	17.5	13.0	15.0	12.0	9.5	10.5
10	---	---	---	15.0	14.0	14.5	18.0	14.5	16.0	11.5	8.5	10.0
11	---	---	---	14.0	13.0	13.5	17.5	15.0	16.0	11.0	9.5	10.0
12	---	---	---	15.5	12.0	13.5	17.5	14.0	16.0	10.5	9.5	10.0
13	---	---	---	18.5	13.0	15.5	18.5	14.0	16.0	10.5	9.5	10.0
14	---	---	---	18.5	14.5	16.5	19.0	14.5	17.0	10.0	9.0	9.5
15	---	---	---	20.5	14.5	17.5	20.0	16.0	18.0	9.5	8.5	9.0
16	---	---	---	19.0	16.5	17.5	19.0	17.0	18.0	10.0	8.0	8.5
17	---	---	---	17.5	15.5	16.5	18.5	16.5	17.5	9.5	7.0	8.0
18	---	---	---	17.0	14.0	15.5	19.5	16.5	18.0	11.0	8.5	9.5
19	---	---	---	16.0	14.5	15.0	18.5	16.5	17.5	9.5	7.5	8.5
20	---	---	---	17.0	14.5	15.5	17.5	15.0	16.0	9.0	7.5	8.0
21	---	---	---	15.0	13.5	14.5	17.5	14.0	15.5	9.5	9.0	9.0
22	---	---	---	18.0	13.5	15.5	17.5	14.5	15.5	9.0	8.5	9.0
23	---	---	---	19.5	14.5	17.0	16.0	13.0	14.5	9.5	8.5	9.0
24	---	---	---	17.5	15.5	16.5	15.5	12.5	14.0	9.5	9.0	9.5
25	---	---	---	17.0	15.5	16.0	16.0	12.0	14.0	9.0	8.0	8.5
26	---	---	---	16.5	14.5	15.5	14.5	12.5	13.5	8.5	7.5	8.0
27	---	---	---	19.0	14.5	16.5	14.0	12.0	13.0	9.5	8.5	9.0
28	---	---	---	18.0	13.5	15.0	13.5	12.0	13.0	8.5	6.5	7.5
29	---	---	---	15.0	13.0	14.0	14.0	12.5	13.5	8.5	7.0	8.0
30	17.0	16.0	16.5	15.0	13.5	14.5	15.0	12.5	13.5	9.5	7.5	8.5
31	---	---	---	17.0	13.0	15.0	14.5	11.5	13.0	---	---	---
MONTH	---	---	---	20.5	11.0	15.2	20.0	11.5	15.0	15.0	6.5	9.7

15087300 FALLS CREEK NEAR PETERSBURG

LOCATION.--Lat 56°40'56", long 132°55'20", in NW¹/₄ SE¹/₄ sec. 11, T. 60 S., R. 79 E. (Petersburg C-3 quad.) Hydrologic Unit 19010202, on left bank 50 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 mi²

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2004 to September 2004.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 2004 to September 2004.

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

REMARKS.--Water-discharge records are computed daily. Probe installed on April 30. Records represent water temperature at sensor within 0.5°C. No temperature cross sections were taken in the 2004 water year.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 22.0°C, June 24-25; minimum recorded, 6.0°C, April 30, partial year of record.

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

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

15087300 FALLS CREEK NEAR PETERSBURG—Continued

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

DAY	OCTOBER 2003			NOVEMBER 2003			DECEMBER 2003			JANUARY 2004		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.5	9.5	10.0	16.5	15.0	16.0	15.0	14.0	14.5	13.0	11.5	12.0
2	11.0	9.5	10.0	16.5	15.5	16.0	14.5	13.5	14.0	12.5	11.5	12.0
3	11.0	9.0	10.0	16.5	15.0	15.5	14.0	13.5	13.5	12.0	11.5	11.5
4	11.5	10.0	10.5	17.0	15.5	16.0	15.0	13.5	14.0	12.0	11.5	12.0
5	12.0	10.5	11.0	16.5	15.0	15.5	15.5	14.0	14.5	12.0	11.5	12.0
6	12.5	11.0	12.0	15.5	11.5	13.5	14.5	13.5	14.0	12.5	11.5	12.0
7	14.0	11.0	12.0	12.5	11.5	12.0	14.0	13.0	13.5	12.5	11.5	12.0
8	14.5	13.0	13.5	13.0	11.5	12.0	14.5	13.0	13.5	12.0	10.0	11.0
9	15.0	13.0	13.5	14.5	13.0	13.5	15.0	13.5	14.0	11.0	10.0	10.5
10	14.0	11.5	12.5	15.0	14.5	14.5	16.0	14.0	15.0	11.0	9.5	10.0
11	12.5	11.5	12.0	14.5	13.5	14.0	16.5	15.5	15.5	10.5	9.5	10.0
12	12.0	11.5	11.5	15.0	13.0	14.0	17.0	15.0	15.5	10.5	10.0	10.0
13	12.0	11.5	12.0	16.0	14.0	14.5	16.5	14.5	15.5	10.5	10.0	10.0
14	12.0	10.5	11.0	17.5	15.5	16.0	16.5	14.5	15.5	11.0	10.0	10.5
15	12.0	10.0	10.5	18.0	16.0	17.0	16.5	15.0	15.5	10.5	10.0	10.0
16	13.0	10.5	12.0	19.0	16.5	17.5	17.0	15.5	16.5	10.5	9.5	10.0
17	14.5	12.0	13.0	17.0	15.5	16.0	17.5	16.0	16.5	10.0	8.0	9.0
18	16.0	13.5	14.5	17.5	15.5	16.0	18.5	16.5	17.0	9.0	8.0	8.5
19	18.0	15.0	16.0	18.0	15.5	16.5	18.5	17.0	17.5	9.0	7.5	8.0
20	19.0	16.0	17.0	16.0	15.0	15.5	18.0	16.5	17.0	8.0	7.5	7.5
21	19.5	16.5	17.5	16.5	15.5	16.0	17.5	15.5	16.5	10.0	8.0	9.0
22	19.5	17.0	18.0	17.0	15.0	16.0	17.0	15.0	16.0	10.0	9.5	10.0
23	20.5	16.5	18.5	17.5	15.0	16.5	16.5	13.5	15.0	9.5	9.5	9.5
24	22.0	17.0	19.0	17.5	16.0	16.5	15.5	12.5	13.5	10.0	9.5	10.0
25	22.0	16.5	19.0	17.0	15.5	16.0	14.5	12.0	13.0	10.0	9.0	9.5
26	21.0	17.0	18.5	16.5	15.0	16.0	14.0	12.5	13.0	9.5	9.0	9.0
27	19.0	16.5	17.0	16.5	15.5	15.5	13.0	13.0	13.0	10.0	9.0	9.5
28	17.0	15.0	16.0	17.0	15.0	16.0	13.5	12.5	13.0	10.0	8.5	9.0
29	17.0	15.0	16.0	15.0	13.5	14.0	13.5	12.5	13.0	9.0	8.0	8.5
30	16.5	15.0	15.5	14.5	13.5	14.0	13.5	13.0	13.0	9.0	8.5	8.5
31	---	---	---	15.0	14.0	14.5	14.0	12.0	13.0	---	---	---
MONTH	22.0	9.0	14.0	19.0	11.5	15.2	18.5	12.0	14.7	13.0	7.5	10.0

15087500 EAST FORK HOBO CREEK NEAR PETERSBURG

LOCATION.--Lat 56°47'38", long 132°52'23", in NW¹/₄ NE¹/₄ NE¹/₄ 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 square miles

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2003 to September 2004.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 2003 to September 2004.

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 February 10, 2004. No variation was found within the cross section, or between mean stream temperature and sensor temperature.

EXTREMES FOR CURRENT YEAR.--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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)
FEB							
10...	1646	10.1	1.6	10.36	5.0	1.0	3.0
10...	1647	10.1	2.5	10.36	5.0	1.0	3.0
10...	1648	10.1	3.5	10.36	5.0	1.0	3.0
10...	1649	10.1	4.5	10.36	5.0	1.0	3.0
10...	1650	10.1	6.5	10.36	5.0	1.0	3.0
10...	1651	10.1	7.5	10.36	5.0	1.0	3.0
10...	1652	10.1	8.5	10.36	5.0	1.0	3.0
10...	1653	10.1	9.5	10.36	5.0	1.0	3.0

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

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

15087500 EAST FORK HOBO CREEK NEAR PETERSBURG—Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	1.0	1.0	1.0	0.5	1.0	2.0	1.5	2.0	5.5	5.0	5.5
2	1.0	1.0	1.0	1.0	0.5	1.0	2.5	2.0	2.5	5.0	4.5	5.0
3	1.0	1.0	1.0	1.0	0.5	1.0	2.5	2.5	2.5	5.0	4.5	5.0
4	1.0	0.5	1.0	1.5	1.0	1.0	2.5	2.5	2.5	5.5	4.5	5.0
5	0.5	0.5	0.5	1.0	1.0	1.0	3.0	2.5	2.5	5.5	4.5	5.0
6	0.5	0.5	0.5	1.0	1.0	1.0	3.5	2.5	3.0	6.0	4.5	5.5
7	1.0	0.5	0.5	1.0	1.0	1.0	3.5	3.0	3.5	6.0	5.0	5.5
8	0.5	0.5	0.5	1.0	1.0	1.0	3.0	3.0	3.0	6.0	5.0	5.5
9	0.5	0.5	0.5	1.5	1.0	1.0	3.5	3.0	3.5	5.5	5.0	5.5
10	1.0	0.5	1.0	1.0	0.5	1.0	3.5	3.0	3.5	6.0	5.0	5.5
11	1.0	1.0	1.0	1.5	1.0	1.0	3.5	3.0	3.5	6.0	5.0	5.5
12	1.0	1.0	1.0	1.5	1.0	1.5	3.5	3.0	3.5	6.5	5.5	6.0
13	1.5	1.0	1.5	1.5	1.0	1.5	3.5	3.0	3.5	7.0	5.5	6.5
14	1.5	1.0	1.0	1.5	1.0	1.0	3.5	3.0	3.5	7.0	6.0	6.5
15	1.0	0.5	1.0	1.0	1.0	1.0	3.5	3.0	3.0	6.5	5.5	6.0
16	1.5	1.0	1.5	1.0	1.0	1.0	4.0	2.5	3.0	7.0	6.0	6.5
17	2.0	1.5	1.5	1.5	1.0	1.0	4.0	3.5	4.0	7.0	6.0	6.5
18	2.0	1.5	1.5	1.5	1.0	1.0	4.0	3.5	3.5	7.0	6.0	6.5
19	1.5	1.0	1.5	1.0	0.5	0.5	4.0	3.0	3.5	7.0	6.0	6.5
20	1.5	1.0	1.5	1.5	1.0	1.0	4.0	3.0	3.5	7.5	6.5	7.0
21	2.0	1.5	2.0	1.5	1.0	1.5	4.5	3.5	4.0	8.0	7.0	7.5
22	2.0	2.0	2.0	2.0	1.5	1.5	5.0	4.0	4.5	8.0	6.5	7.5
23	2.5	2.0	2.0	2.0	1.5	1.5	4.5	3.5	4.0	8.5	7.0	7.5
24	2.0	1.5	1.5	2.0	1.5	2.0	4.0	4.0	4.0	8.0	7.5	8.0
25	2.0	1.5	1.5	2.5	2.0	2.0	4.0	4.0	4.0	7.5	7.0	7.5
26	1.5	1.0	1.5	2.5	2.0	2.0	4.0	3.5	4.0	7.5	7.0	7.5
27	1.0	1.0	1.0	2.5	2.0	2.0	4.0	3.5	4.0	8.0	7.0	7.5
28	1.5	0.5	1.0	2.5	2.0	2.0	5.0	4.0	4.0	8.0	7.0	7.5
29	1.5	1.0	1.0	2.5	2.0	2.0	4.5	3.5	4.0	8.0	7.0	7.5
30	---	---	---	2.5	1.5	2.0	5.5	4.0	5.0	8.0	7.0	7.5
31	---	---	---	2.0	1.5	1.5	---	---	---	7.5	7.5	7.5
MONTH	2.5	0.5	1.2	2.5	0.5	1.3	5.5	1.5	3.5	8.5	4.5	6.4
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.0	7.5	12.5	11.5	12.0	12.0	11.0	11.5	11.0	10.0	10.5
2	8.0	7.0	7.5	12.0	11.5	11.5	12.0	11.5	11.5	11.0	10.0	10.5
3	8.0	7.0	7.5	12.0	11.0	11.5	12.0	11.5	11.5	11.5	11.0	11.5
4	8.5	7.5	8.0	12.0	11.0	11.5	12.0	11.0	11.5	11.5	11.0	11.0
5	9.5	8.5	8.5	12.0	11.0	11.5	12.0	11.5	11.5	11.0	10.5	11.0
6	9.0	8.5	8.5	11.0	10.5	10.5	12.0	11.5	11.5	11.0	10.5	11.0
7	10.5	8.5	9.5	10.5	10.0	10.5	12.0	11.0	11.5	11.0	10.0	10.5
8	10.5	9.5	10.0	11.5	10.0	10.5	12.0	11.0	11.5	10.0	9.0	9.5
9	9.5	9.0	9.5	11.5	10.5	11.0	12.5	11.0	12.0	10.0	9.0	9.5
10	9.5	8.0	9.0	11.5	11.0	11.0	13.5	11.5	12.5	9.5	8.5	9.0
11	9.5	8.5	9.0	11.5	11.0	11.5	13.0	12.5	13.0	9.5	9.0	9.5
12	9.5	8.5	9.0	12.0	11.0	11.5	12.5	11.5	12.0	10.0	9.5	9.5
13	9.5	9.0	9.0	12.5	11.0	12.0	12.5	11.5	12.0	10.0	9.5	10.0
14	9.0	8.5	9.0	13.0	11.5	12.0	12.5	11.0	12.0	10.0	9.5	9.5
15	9.0	8.5	9.0	13.0	11.5	12.5	13.5	12.0	12.5	9.5	9.0	9.0
16	10.0	8.5	9.0	13.0	12.0	12.5	13.5	12.5	13.0	9.0	8.5	8.5
17	10.5	8.5	9.5	12.5	12.0	12.0	14.0	13.0	13.5	8.5	8.0	8.5
18	11.5	9.5	10.5	12.5	11.5	12.0	14.0	13.0	13.5	8.5	8.0	8.5
19	12.5	10.5	11.5	12.5	11.5	12.0	13.5	12.5	13.0	8.0	7.5	8.0
20	13.0	11.0	12.0	12.5	12.0	12.0	13.0	12.5	13.0	9.0	8.0	8.5
21	13.0	11.0	12.0	12.5	12.0	12.0	13.0	12.0	12.5	9.5	9.0	9.0
22	13.0	11.5	12.5	12.5	11.5	12.0	12.5	11.5	12.0	9.5	9.0	9.0
23	13.5	11.5	12.5	12.5	11.0	12.0	12.0	10.5	11.0	9.5	9.0	9.0
24	13.5	12.0	12.5	13.0	11.5	12.5	11.0	10.0	10.5	9.5	9.0	9.5
25	13.5	11.5	12.5	12.5	12.0	12.5	11.0	9.5	10.5	9.0	8.5	9.0
26	13.0	12.5	13.0	12.0	11.5	12.0	12.0	10.0	11.0	9.0	8.5	8.5
27	12.5	12.0	12.5	13.0	11.5	12.0	12.5	11.5	12.0	9.0	9.0	9.0
28	12.0	11.5	12.0	13.0	12.5	12.5	12.5	12.0	12.0	9.0	8.0	8.5
29	12.0	11.5	11.5	12.5	12.0	12.5	12.0	11.5	12.0	8.5	8.0	8.5
30	12.0	11.0	11.5	12.5	12.0	12.0	12.0	11.0	11.5	9.0	8.5	8.5
31	---	---	---	12.5	11.5	12.0	11.5	10.5	11.0	---	---	---
MONTH	13.5	7.0	10.2	13.0	10.0	11.8	14.0	9.5	11.9	11.5	7.5	9.4

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA

LOCATION.--Lat 57°07'31", long 135°19'54", in SW¹/₄ SW¹/₄ NE¹/₄ 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 mi².

PERIOD OF RECORD.-- October 2003 to September 2004.

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

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

EXTREMES FOR CURRENT YEAR.-- Maximum discharge 1320 ft³/s, November 12, gage-height 14.89 ft; minimum discharge 2.4 ft³/s, July 19-20, gage-height 9.86 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	---	17	118	12	6.4	10	15	54	16	3.9	19	6.9
2	---	14	96	9.1	5.8	9.8	55	46	17	3.7	16	53
3	---	12	34	8.1	5.3	10	95	41	15	3.7	13	76
4	---	11	21	7.1	7.6	14	65	41	17	3.4	10	86
5	---	9.3	17	6.5	12	12	33	37	20	4.0	8.9	32
6	---	8.7	14	6.0	21	11	28	31	16	22	7.9	21
7	---	8.3	12	5.8	88	51	44	27	16	10	7.1	16
8	---	8.2	11	6.2	223	119	34	23	14	6.5	6.3	12
9	---	69	9.7	10	207	46	34	24	13	5.0	5.7	10
10	---	32	8.6	14	107	128	38	29	13	4.5	5.2	8.6
11	---	120	8.3	16	55	81	37	30	11	4.7	4.8	8.6
12	---	542	10	19	56	36	51	30	11	4.0	4.5	11
13	---	77	10	87	41	25	40	32	11	3.5	4.0	14
14	---	40	8.2	151	36	24	34	29	11	3.2	3.9	21
15	---	59	11	57	26	31	27	24	9.3	2.9	3.8	19
16	---	30	27	32	22	61	20	21	8.9	2.7	3.6	15
17	---	20	44	133	18	27	18	20	9.2	2.6	3.4	11
18	---	14	49	165	19	19	16	24	9.8	2.6	3.4	9.4
19	---	10	85	59	44	15	14	29	9.9	2.5	3.6	8.2
20	---	8.5	46	75	83	12	16	28	9.4	2.5	4.0	167
21	---	8.1	82	92	178	11	17	30	8.0	2.7	3.7	260
22	---	50	213	79	86	14	24	27	7.1	e2.6	3.6	135
23	63	21	81	56	38	14	30	23	6.7	e2.5	3.5	244
24	33	62	49	26	25	14	44	36	6.3	e2.6	3.4	119
25	189	34	37	15	19	24	66	50	5.8	e2.8	3.3	55
26	188	18	23	11	16	27	100	64	5.3	e3.1	3.2	61
27	95	13	17	10	13	22	44	35	4.9	e8.8	17	120
28	99	13	14	9.2	12	39	29	23	5.1	e88	24	59
29	41	14	13	8.5	11	28	26	19	4.6	81	14	79
30	26	55	14	7.5	---	19	43	18	4.2	46	11	54
31	20	---	18	7.0	---	15	---	17	---	25	9.2	---
TOTAL	---	1398.1	1200.8	1200.0	1481.1	968.8	1137	962	315.5	363.0	234.0	1791.7
MEAN	---	46.6	38.7	38.7	51.1	31.3	37.9	31.0	10.5	11.7	7.55	59.7
MAX	---	542	213	165	223	128	100	64	20	88	24	260
MIN	---	8.1	8.2	5.8	5.3	9.8	14	17	4.2	2.5	3.2	6.9
AC-FT	---	2770	2380	2380	2940	1920	2260	1910	626	720	464	3550
CFSM	---	10.9	9.03	9.02	11.9	7.28	8.83	7.23	2.45	2.73	1.76	13.9
IN.	---	12.12	10.41	10.41	12.84	8.40	9.86	8.34	2.74	3.15	2.03	15.54

e Estimated

15087690 INDIAN RIVER NEAR SITKA

LOCATION.--Lat 57°04'01", long 135°17'42", in SW¹/₄ SE¹/₄ 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 mi²

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.-- Records fair except for Jan. 6-9, Sept. 2-9, and estimated daily discharges which are poor.

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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1200 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 12	0630	*4350	*13.93	Sep 21	0230	2220	12.27

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	78	73	154	47	35	40	54	119	53	e16	e37	e14
2	68	65	164	40	32	36	101	102	50	e16	e33	e50
3	59	58	97	35	29	37	150	99	47	e15	e29	103
4	70	52	80	32	29	46	127	90	53	e15	e26	132
5	62	47	74	29	34	40	88	82	62	e18	e24	72
6	58	43	65	27	43	37	84	73	52	e43	e22	75
7	67	39	59	25	114	87	105	67	49	e28	e21	65
8	58	37	55	25	254	120	93	63	46	e21	e18	57
9	50	100	49	27	285	79	85	66	42	e18	e17	53
10	48	78	45	35	184	148	89	75	41	e17	e15	48
11	45	207	42	37	118	115	92	74	37	e16	e14	45
12	40	1280	44	44	122	80	129	73	36	e15	e14	45
13	65	181	46	115	106	71	100	77	39	e15	e13	50
14	71	138	37	199	96	67	86	72	37	e15	e13	61
15	48	155	50	104	78	81	76	59	33	e14	e13	62
16	41	112	88	74	67	117	66	55	31	e14	e13	50
17	37	96	83	135	60	71	61	52	31	e13	e13	41
18	43	80	98	198	58	57	57	62	34	e13	e12	36
19	73	69	137	121	79	49	51	72	35	e13	e12	33
20	66	61	105	117	119	45	48	67	33	e13	e12	389
21	50	56	157	148	196	42	48	66	30	e13	e12	572
22	68	131	373	182	132	44	58	62	e27	e13	e11	215
23	104	88	178	150	89	42	74	55	e25	e12	e11	377
24	64	144	130	100	75	43	82	80	e25	e13	e11	201
25	387	105	114	78	66	57	96	126	e23	e14	e11	146
26	404	75	89	63	58	63	121	154	e21	e15	e12	117
27	233	63	75	56	53	59	84	87	e20	e26	e26	204
28	259	60	64	52	48	92	70	64	e19	e122	e51	144
29	120	59	59	47	43	66	66	57	e18	e106	e22	243
30	93	102	59	42	---	55	100	57	e17	e75	e15	150
31	81	---	62	38	---	48	---	55	---	e46	e14	---
TOTAL	3010	3854	2932	2422	2702	2034	2541	2362	1066	803	567	3850
MEAN	97.1	128	94.6	78.1	93.2	65.6	84.7	76.2	35.5	25.9	18.3	128
MAX	404	1280	373	199	285	148	150	154	62	122	51	572
MIN	37	37	37	25	29	36	48	52	17	12	11	14
AC-FT	5970	7640	5820	4800	5360	4030	5040	4690	2110	1590	1120	7640
CFSM	9.61	12.7	9.36	7.74	9.22	6.50	8.39	7.54	3.52	2.56	1.81	12.7
IN.	11.09	14.19	10.80	8.92	9.95	7.49	9.36	8.70	3.93	2.96	2.09	14.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, 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
MEAN	184	102	99.1	97.6	80.4	61.8	66.3	103	85.8	61.5	85.6	168													
MAX	293	218	207	184	154	122	111	167	166	111	238	295													
(WY)	1988	1990	1990	1984	1993	1986	1983	1985	1985	1985	1983	1991													
MIN	97.1	37.0	21.7	46.3	24.8	19.9	29.0	37.1	28.8	20.6	18.3	52.8													
(WY)	2004	1999	1984	1988	1999	1989	2002	2003	1993	1993	2004	1986													

See period of record; partial years used in monthly summary statistics and break in record
e Estimated

15087690 INDIAN RIVER NEAR SITKA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004#	
ANNUAL TOTAL	27031		28143			
ANNUAL MEAN	74.1		76.9		99.9	
HIGHEST ANNUAL MEAN					123 1987	
LOWEST ANNUAL MEAN					76.3 2003	
HIGHEST DAILY MEAN	1280	Nov 12	1280	Nov 12	2000	Oct 12 1982
LOWEST DAILY MEAN	17	Aug 11	a11	Aug 22	8.6	Jan 18 1989
ANNUAL SEVEN-DAY MINIMUM	18	Aug 8	11	Aug 19	10	Jan 13 1989
MAXIMUM PEAK FLOW			b4350	Nov 12	c5710	Sep 4 1990
MAXIMUM PEAK STAGE			13.93	Nov 12	d13.51	Sep 4 1990
INSTANTANEOUS LOW FLOW			f		8.2	Jan 19 1989
ANNUAL RUNOFF (AC-FT)	53620		55820		72380	
ANNUAL RUNOFF (CFSM)	7.33		7.61		9.89	
ANNUAL RUNOFF (INCHES)	99.56		103.66		134.40	
10 PERCENT EXCEEDS	130		140		181	
50 PERCENT EXCEEDS	50		59		67	
90 PERCENT EXCEEDS	28		15		28	

See period of record; partial years used in monthly summary statistics and break in record

a Aug 22-25

b From rating curve extended above 500 ft³/s

c From rating curve extended above 3,100 ft³/s, at site and datum then in use

d At site and datum then in use

f Not determined, see lowest daily mean

15088000 SAWMILL CREEK NEAR SITKA

LOCATION.--Lat 57°03'05", long 135°13'40", in NE¹/₄ SW¹/₄ 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 mi².

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, except estimated daily discharges, which are poor. 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 ft³/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 ft³/s. It was reported to have been the largest since 1921.

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	e400	110	135	109	105	108	88	115	117	124	129	107
2	e200	108	147	82	105	72	129	112	117	122	126	124
3	e108	106	121	63	105	53	145	112	117	123	123	135
4	109	106	114	63	105	71	141	112	117	123	121	144
5	118	105	113	63	102	79	122	112	118	124	120	120
6	109	104	111	63	110	62	118	111	118	132	119	117
7	112	104	110	93	112	80	120	111	118	128	119	114
8	115	104	109	105	133	93	118	111	77	126	116	110
9	109	113	108	106	115	110	115	111	100	124	116	109
10	108	120	107	109	73	137	114	112	120	124	115	108
11	103	138	106	109	62	137	118	112	120	124	114	108
12	64	1550	106	109	66	125	108	112	120	124	114	109
13	69	1500	107	118	74	120	89	112	120	124	113	112
14	71	654	105	141	72	116	113	112	121	124	113	117
15	85	335	106	124	70	119	111	111	122	124	113	115
16	107	188	117	116	68	130	109	111	121	124	112	111
17	109	125	122	131	67	120	109	111	121	125	112	108
18	113	114	135	139	68	115	109	111	121	124	110	107
19	121	109	138	122	98	113	91	111	121	124	110	107
20	212	108	124	121	122	111	59	112	121	125	110	221
21	216	108	134	125	141	111	76	112	121	125	110	1190
22	337	140	189	146	129	110	94	113	122	124	110	1760
23	352	120	151	136	118	110	70	113	122	124	109	2490
24	304	139	131	119	114	111	71	115	122	124	109	2200
25	1710	128	125	112	112	113	74	125	123	124	108	1330
26	2500	117	116	104	110	115	78	139	123	123	108	665
27	1430	112	113	106	109	115	73	124	124	125	116	1210
28	1120	111	111	107	109	126	97	91	124	135	122	1070
29	539	110	110	106	109	84	110	119	124	151	112	1540
30	215	116	110	106	---	102	117	118	124	146	109	1320
31	122	---	111	105	---	97	---	118	---	134	107	---
TOTAL	11387	7102	3742	3358	2883	3265	3086	3521	3556	3927	3545	17178
MEAN	367	237	121	108	99.4	105	103	114	119	127	114	573
MAX	2500	1550	189	146	141	137	145	139	124	151	129	2490
MIN	64	104	105	63	62	53	59	91	77	122	107	107
AC-FT	22590	14090	7420	6660	5720	6480	6120	6980	7050	7790	7030	34070
CFSM	9.42	6.07	3.10	2.78	2.55	2.70	2.64	2.91	3.04	3.25	2.93	14.7
IN.	10.86	6.77	3.57	3.20	2.75	3.11	2.94	3.36	3.39	3.75	3.38	16.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2004, BY WATER YEAR (WY)#

	732	465	255	171	164	127	199	520	686	640	646	739
MEAN	732	465	255	171	164	127	199	520	686	640	646	739
MAX	1204	998	818	500	644	365	663	861	1179	976	1235	1287
(WY)	1938	1936	1931	1942	1935	1947	1936	1936	1936	1935	1939	1947
MIN	354	78.5	50.1	29.9	33.1	24.8	61.5	60.3	53.9	87.0	114	359
(WY)	1923	2002	1951	1956	1951	1922	1948	2002	2002	2003	2004	1941

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

15088000 SAWMILL CREEK NEAR SITKA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1920 - 2004#	
ANNUAL TOTAL	55549		66550			
ANNUAL MEAN	152		182		451	
HIGHEST ANNUAL MEAN					715 1936	
LOWEST ANNUAL MEAN					182 2004	
HIGHEST DAILY MEAN	2540	Sep 25	2500	Oct 26	5500	Oct 22 1937
LOWEST DAILY MEAN	51	Jan 2	53	Mar 3	11	Mar 30 1922
ANNUAL SEVEN-DAY MINIMUM	63	May 4	68	Feb 11	12	Mar 25 1922
MAXIMUM PEAK FLOW			3420	Sep 23	a10700	Nov 19 1993
MAXIMUM PEAK STAGE			16.22	Sep 23	18.26	Aug 12 2002
INSTANTANEOUS LOW FLOW			41	Apr 20	b	
ANNUAL RUNOFF (AC-FT)	110200		132000		326800	
ANNUAL RUNOFF (CFSM)	3.90		4.66		11.6	
ANNUAL RUNOFF (INCHES)	52.99		63.48		157.17	
10 PERCENT EXCEEDS	143		144		930	
50 PERCENT EXCEEDS	80		114		325	
90 PERCENT EXCEEDS	65		91		66	

- # See Period of Record; partial years used in monthly statistics
a 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 ft³/s.
b Undetermined

15088200 SILVER BAY TRIBUTARY AT BEAR COVE NEAR SITKA

LOCATION.--Lat 57°01'09", long 135°09'45", in SW¹/₄ NW¹/₄ NE¹/₄ 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 mi².

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.34	0.74	17	0.23	0.10	0.40	1.1	6.1	0.60	0.18	0.36	0.07
2	0.24	0.36	11	0.15	0.10	0.32	18	4.4	0.62	0.18	0.28	5.4
3	0.40	0.26	0.91	0.12	0.09	0.34	14	3.2	0.67	0.16	0.16	4.4
4	0.69	0.19	0.48	0.10	0.15	0.47	5.8	4.8	1.3	0.14	0.10	5.6
5	0.43	0.16	0.40	0.09	1.1	0.40	3.6	3.7	1.2	0.68	0.08	0.44
6	1.1	0.13	0.31	0.09	1.0	0.38	4.6	2.8	0.72	6.9	0.09	0.29
7	2.0	0.12	0.27	0.09	5.4	4.7	9.1	1.9	0.74	1.1	0.09	0.22
8	0.85	0.25	0.24	0.09	17	18	3.9	1.2	0.43	0.40	0.08	0.09
9	0.85	4.7	0.20	0.61	19	2.1	4.5	1.1	0.54	0.26	0.07	0.07
10	0.96	3.5	0.18	1.9	7.7	6.8	4.8	1.9	0.67	0.21	0.06	0.06
11	0.58	18	0.20	0.92	1.9	3.8	8.7	2.6	0.40	0.18	0.05	0.06
12	0.31	41	0.32	1.6	2.8	1.1	13	3.0	0.57	0.16	0.03	0.27
13	5.4	2.8	0.34	14	2.9	0.81	4.3	3.1	0.63	0.15	0.00	3.1
14	2.8	2.1	0.20	23	1.6	0.73	4.4	e2.4	0.62	0.13	0.00	4.1
15	0.68	5.2	0.95	2.0	0.66	0.89	3.4	e2.1	0.47	0.13	0.00	1.5
16	0.42	1.0	4.3	0.80	0.42	1.8	2.3	e1.8	0.43	0.12	0.00	0.39
17	0.44	0.70	3.4	21	0.33	0.73	1.9	e1.4	0.44	0.10	0.00	0.12
18	5.6	0.38	18	8.4	0.70	0.49	1.7	e1.7	0.48	0.09	0.00	0.08
19	11	0.25	15	1.4	2.3	0.36	1.5	e2.9	0.51	0.09	0.00	0.07
20	2.9	0.18	2.6	6.2	6.1	0.33	2.8	3.7	0.42	0.09	0.01	31
21	4.7	0.16	25	8.6	20	0.35	2.1	4.3	0.31	0.11	0.00	24
22	4.9	7.4	39	17	2.9	0.72	2.8	3.2	0.29	0.11	0.00	6.2
23	4.1	1.1	5.3	3.7	1.2	1.1	1.5	2.4	0.31	0.08	0.00	26
24	1.6	4.0	2.3	0.67	0.81	1.5	2.5	5.1	0.28	0.17	0.00	4.5
25	20	1.3	1.4	0.26	0.59	2.3	5.5	9.1	0.25	0.63	0.00	1.8
26	21	0.56	0.54	0.17	0.57	2.0	3.7	13	0.20	0.72	0.03	8.5
27	13	0.37	0.34	0.13	0.65	1.4	1.6	2.6	0.18	0.54	1.2	12
28	9.3	0.34	0.27	0.12	0.57	7.4	1.2	1.3	0.20	1.4	3.3	1.9
29	1.2	0.38	0.24	0.11	0.41	1.5	3.2	0.98	0.19	15	0.33	28
30	0.55	6.5	0.28	0.11	---	0.86	10	0.82	0.18	5.1	0.18	3.8
31	0.58	---	0.46	0.11	---	0.62	---	0.70	---	0.76	0.09	---
TOTAL	118.92	104.13	151.43	113.77	99.05	64.70	147.5	99.30	14.85	36.07	6.59	174.03
MEAN	3.84	3.47	4.88	3.67	3.42	2.09	4.92	3.20	0.49	1.16	0.21	5.80
MAX	21	41	39	23	20	18	18	13	1.3	15	3.3	31
MIN	0.24	0.12	0.18	0.09	0.09	0.32	1.1	0.70	0.18	0.08	0.00	0.06
MED	1.1	0.63	0.48	0.61	1.0	0.86	3.7	2.6	0.45	0.18	0.05	1.9
AC-FT	236	207	300	226	196	128	293	197	29	72	13	345
CFSM	10.1	9.13	12.9	9.66	8.99	5.49	12.9	8.43	1.30	3.06	0.56	15.3
IN.	11.64	10.19	14.82	11.14	9.70	6.33	14.44	9.72	1.45	3.53	0.65	17.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004
MEAN	6.02	3.46	4.31	2.92	2.42
MAX	7.64	4.56	7.73	3.67	3.42
(WY)	2002	2000	2000	2004	2004
MIN	3.84	2.85	2.49	1.68	1.12
(WY)	2004	2001	2003	2000	2002

e Estimated

15088200 SILVER BAY TRIBUTARY AT BEAR COVE NEAR SITKA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	919.53		1130.34			
ANNUAL MEAN	2.52		3.09		3.46	
HIGHEST ANNUAL MEAN					4.54 2000	
LOWEST ANNUAL MEAN					2.46 2003	
HIGHEST DAILY MEAN	41	Nov 12	41	Nov 12	51	Aug 12 2002
LOWEST DAILY MEAN	0.00	Jul 17	a0.00	Aug 13	b0.00	Jul 17 2003
ANNUAL SEVEN-DAY MINIMUM	0.08	Jul 14	0.00	Aug 13	0.00	Aug 13 2004
MAXIMUM PEAK FLOW			140	Sep 20	264	Aug 12 2002
MAXIMUM PEAK STAGE			19.48	Sep 20	19.68	Aug 12 2002
INSTANTANEOUS LOW FLOW			c0.00	Aug 12	d0.00	Dec 2 2001
ANNUAL RUNOFF (AC-FT)	1820		2240		2510	
ANNUAL RUNOFF (CFSM)	6.63		8.13		9.11	
ANNUAL RUNOFF (INCHES)	90.02		110.65		123.73	
10 PERCENT EXCEEDS	5.6		8.5		8.1	
50 PERCENT EXCEEDS	1.0		0.73		1.9	
90 PERCENT EXCEEDS	0.27		0.09		0.29	

a Aug. 13-19, 21-25

b Jul. 17-18, Aug. 10, 2003, and Aug. 13-19, 21-25, 2004

c Aug. 12-26

d Dec. 2-3, 2001, Jul. 16-19 and Aug. 10-11, 2003, and Aug. 12-26, 2004

15090000 GREEN LAKE NEAR SITKA

LOCATION.--Lat 56°59'14", long 135°06'37", in SW¹/₄ NE¹/₄ 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 mi².

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.--30 years (water years, 1916-25, 1985-2004), 310 ft³/s, 146.2in/yr, 224,600 acre-ft/yr. Mean discharge for water years 1985-2004 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 ft³/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, 91,890 acre-ft, September 23, elevation 398.7 ft; minimum contents observed, 65,680 acre-ft, April 1-2, elevation 370.5 ft; Maximum daily discharge (not adjusted for storage) 309 ft³/s, April 1; minimum daily discharge, 0 ft³/s, June 19.

CORRECTIONS.--Monthly and annual discharge for Water Year 2003 have been corrected and are listed in the table below; the previously published values are incorrect.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
MEAN VALUES

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	162	485	647	634
NOV	198	74	272	274
DEC	170	110	280	285
JAN	192	22	214	192
FEB	207	0	207	52
MAR	249	0	249	79
APR	213	0	213	126
MAY	165	0	165	247
JUN	148	0	148	327
JUL	153	0	153	213
AUG	142	0	142	230
SEP	141	341	482	534
CAL YR 2002	229	65.7	294	310
WTR YR 2003	178	86.5	265	267

MONTH END RESERVOIR ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Sep 30	395.4	88,420	
Oct 31	394.8>	87,810	-610
Nov 30	391.3	84,490	-3320
Dec 31	387.8	81,160	-3330
Jan 31	381.3	75,170	-5990
Feb 29	378.8	72,920	-2250
Mar 31	370.9	66,020	-6900
Apr 30	371.4	66,440	+420
May 31	385.4	78,880	+12,440
Jun 30	395.5	88,530	+9650
Jul 31	395.5	88,530	0
Aug 31	395.0	88,000	-530
Sep 30	396.4	89,470	+1470
CAL YR 2003			-4940
WTR YR 2004			+1050

SOUTHEAST ALASKA

15090000 GREEN LAKE NEAR SITKA—Continued

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

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	153	129	282	272
NOV	195	42	237	181
DEC	244	0	244	190
JAN	241	0	241	144
FEB	219	0	219	180
MAR	236	0	236	124
APR	187	0	187	194
MAY	142	0	142	344
JUN	136	108	244	406
JUL	142	146	288	288
AUG	147	45	192	183
SEP	131	480	611	636
CAL YR 2003	176	25	201	194
WTR YR 2004	181	79	260	261

15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU

LOCATION.--Lat 58°05'00", long 134°37'54", in NW¹/₄ SE¹/₄ 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 mi².

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e43	e34	e15	e11	e9.0	12	9.6	98	90	38	25	10
2	e38	e33	e21	e10	e9.5	11	20	100	88	37	24	13
3	e34	e30	e15	e9.8	e9.5	11	50	101	85	42	27	19
4	e39	e27	e14	e9.6	e10	10	28	98	87	36	25	20
5	e37	e25	14	e9.4	e12	10	22	89	97	41	23	19
6	e39	e23	13	e9.6	15	9.7	21	84	96	57	22	26
7	e43	e22	13	e9.0	12	11	25	86	106	40	20	25
8	e38	e20	12	e9.5	17	34	27	87	98	35	19	20
9	e34	e23	e12	13	63	19	26	86	90	32	18	17
10	e33	e22	e11	21	46	15	27	87	88	29	18	16
11	e31	e28	12	18	27	15	27	90	84	28	21	15
12	e29	e68	11	15	31	13	29	94	89	26	18	23
13	e29	e59	11	29	26	12	28	98	88	25	16	59
14	e25	e41	11	113	23	11	28	101	88	33	16	30
15	e23	e38	11	43	19	10	25	98	80	27	15	25
16	e22	e36	11	22	16	10	23	94	78	25	14	22
17	e20	e34	12	21	15	9.3	22	91	84	25	14	20
18	e29	e32	15	32	14	8.9	22	96	92	23	13	18
19	e40	e30	31	26	15	10	20	102	96	21	14	17
20	e43	e29	22	33	18	8.8	21	105	94	21	16	42
21	e38	e27	21	45	35	9.6	22	108	89	25	14	101
22	e36	e26	79	54	39	7.8	35	102	86	22	12	86
23	e39	e24	41	32	24	7.5	29	97	86	20	11	112
24	e43	e24	27	e24	20	7.9	25	107	85	26	11	107
25	e92	e22	24	e18	17	19	48	114	82	30	10	86
26	e124	e19	19	e14	16	17	56	112	75	23	11	69
27	e82	e18	e15	e15	14	14	36	99	67	24	15	106
28	e54	e17	e12	e13	14	15	33	90	56	38	15	86
29	e44	e15	e13	e11	13	14	36	91	45	35	14	68
30	e38	e14	e13	e9.7	---	12	67	92	41	31	13	59
31	e36	---	e12	e8.6	---	10	---	92	---	27	11	---
TOTAL	1295	860	563	708.2	599.0	384.5	887.6	2989	2510	942	515	1336
MEAN	41.8	28.7	18.2	22.8	20.7	12.4	29.6	96.4	83.7	30.4	16.6	44.5
MAX	124	68	79	113	63	34	67	114	106	57	27	112
MIN	20	14	11	8.6	9.0	7.5	9.6	84	41	20	10	10
AC-FT	2570	1710	1120	1400	1190	763	1760	5930	4980	1870	1020	2650
CFSM	4.85	3.33	2.11	2.65	2.40	1.44	3.43	11.2	9.71	3.53	1.93	5.17
IN.	5.59	3.71	2.43	3.06	2.59	1.66	3.83	12.90	10.83	4.07	2.22	5.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2004, BY WATER YEAR (WY)#

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	60.3	30.1	25.4	16.1	13.6	11.3	28.4	78.6	86.0	52.5	39.0	61.0				
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				

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

15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1989 - 2004#	
ANNUAL TOTAL	11965.9		13589.3			
ANNUAL MEAN	32.8		37.1		42.1	
HIGHEST ANNUAL MEAN					60.1 1992	
LOWEST ANNUAL MEAN					31.8 1998	
HIGHEST DAILY MEAN	164	Sep 14	124	Oct 26	465	Oct 20 1998
LOWEST DAILY MEAN	4.6	Mar 25	7.5	Mar 23	a1.2	Apr 3 2002
ANNUAL SEVEN-DAY MINIMUM	5.0	Mar 21	8.6	Mar 18	1.2	Apr 8 2002
MAXIMUM PEAK FLOW			b164	Sep 23	c710	Oct 20 1998
MAXIMUM PEAK STAGE			2.65	Sep 23	d14.79	Oct 20 1998
INSTANTANEOUS LOW FLOW			5.7	Mar 23	f0.98	Mar 20 2002
ANNUAL RUNOFF (AC-FT)	23730		26950		30470	
ANNUAL RUNOFF (CFSM)	3.80		4.31		4.88	
ANNUAL RUNOFF (INCHES)	51.64		58.65		66.30	
10 PERCENT EXCEEDS	76		91		91	
50 PERCENT EXCEEDS	23		25		30	
90 PERCENT EXCEEDS	8.8		11		6.6	

See Period of Record, partial years used in monthly statistics

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

b May have been higher during period of estimated discharge.

c From rating curve extended above 140 ft³/s on basis of slope area measurement of peak flow

d Same site, different datum

f Mar. 20, and Apr. 7-11

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004#	
ANNUAL TOTAL	17937.5		21843.8			
ANNUAL MEAN	49.1		59.7		63.9	
HIGHEST ANNUAL MEAN					80.8	
LOWEST ANNUAL MEAN					44.1	
HIGHEST DAILY MEAN	529	Nov 12	529	Nov 12	1010	Oct 19 1998
LOWEST DAILY MEAN	6.7	Aug 11	a4.0	Aug 24	b3.2	Jul 28 1989
ANNUAL SEVEN-DAY MINIMUM	7.2	Aug 8	4.3	Aug 12	4.2	Jan 13 1974
MAXIMUM PEAK FLOW			995	Nov 12	c1970	Oct 8 1990
MAXIMUM PEAK STAGE			4.54	Nov 12	5.83	Oct 8 1990
INSTANTANEOUS LOW FLOW			d3.8	Aug 13	3.2	Jul 28 1989
ANNUAL RUNOFF (AC-FT)	35580		43330		46320	
ANNUAL RUNOFF (CFSM)	4.82		5.85		6.27	
ANNUAL RUNOFF (INCHES)	65.42		79.67		85.17	
10 PERCENT EXCEEDS	99		145		138	
50 PERCENT EXCEEDS	32		37		42	
90 PERCENT EXCEEDS	12		6.6		12	

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

a Aug. 24 to Aug. 25, 2004

b Jul. 28 to Jul. 29, 1989

c From rating curve extended above 330 ft³/s on basis of area-velocity study at gage height 4.8 ft and shape of previous rating

d Aug. 13 and Aug. 23 to Aug. 26, 2004

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 since March 13, 1987, 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 October 1, and June 22. No variation was found in the temperature cross section on October 1, and a 1.0°C variation on June 22, during low flow and warm weather conditions. 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, 15.5°C, July 16; minimum, 0.0°C, on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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)
OCT							
01...	1605	47.0	4.0	1.64	38	8.5	12.0
01...	1606	47.0	11.0	1.64	38	8.5	12.0
01...	1607	47.0	18.0	1.64	38	8.5	12.0
01...	1608	47.0	25.0	1.64	38	8.5	12.0
01...	1609	47.0	32.0	1.64	38	8.5	12.0
JUN							
22...	1140	24.0	2.0	1.32	13	12.0	26.5
22...	1141	24.0	6.0	1.32	13	12.0	26.5
22...	1142	24.0	10.0	1.32	13	12.0	26.5
22...	1143	24.0	14.0	1.32	13	12.0	26.5
22...	1144	24.0	18.0	1.32	13	12.5	26.5
22...	1145	24.0	22.0	1.32	13	13.0	26.5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.0	8.0	8.5	3.5	3.0	3.5	0.5	0.0	0.5	2.0	1.0	1.5
2	8.0	7.5	8.0	3.5	3.0	3.0	0.5	0.0	0.5	1.0	0.5	0.5
3	8.5	7.5	8.0	3.0	2.0	3.0	2.0	0.5	1.5	0.5	0.0	0.5
4	9.0	8.0	8.5	2.5	2.0	2.0	2.0	1.5	1.5	0.5	0.0	0.0
5	8.5	8.0	8.5	2.5	2.0	2.5	2.0	2.0	2.0	0.5	0.0	0.0
6	9.0	8.0	8.5	3.0	2.5	2.5	2.0	1.5	2.0	0.5	0.0	0.0
7	9.0	8.5	9.0	3.0	3.0	3.0	2.0	1.5	1.5	0.0	0.0	0.0
8	8.5	7.5	8.0	3.5	3.0	3.5	2.0	2.0	2.0	0.0	0.0	0.0
9	7.5	7.0	7.5	3.5	3.0	3.5	2.0	0.5	1.5	0.0	0.0	0.0
10	7.0	6.5	7.0	3.5	3.0	3.0	1.0	0.5	0.5	0.5	0.0	0.0
11	6.5	5.5	6.5	3.5	3.0	3.0	1.5	1.0	1.5	1.0	0.5	0.5
12	6.0	5.0	5.5	4.5	3.5	4.5	1.5	1.0	1.5	1.0	1.0	1.0
13	6.0	5.0	5.5	4.0	3.0	3.5	1.5	1.0	1.5	1.0	0.0	0.5
14	6.5	5.5	6.0	3.5	2.5	3.0	1.5	1.0	1.5	1.0	0.0	0.5
15	6.0	4.5	5.0	3.5	3.0	3.5	1.5	0.5	1.0	1.5	0.5	1.0
16	5.5	4.5	5.0	4.0	3.5	3.5	1.0	1.0	1.0	1.5	1.0	1.5
17	6.0	5.5	5.5	3.5	3.0	3.5	1.5	1.0	1.0	1.0	1.0	1.0
18	6.5	6.0	6.5	3.0	2.0	2.5	1.5	0.0	1.0	1.5	1.0	1.5
19	7.0	6.5	6.5	2.0	1.0	1.5	1.5	1.0	1.5	2.0	1.5	1.5
20	7.0	5.5	6.5	1.0	0.5	1.0	2.0	1.5	2.0	2.0	1.5	1.5
21	6.0	5.0	5.5	1.5	0.5	1.0	2.5	1.5	2.0	2.0	1.5	1.5
22	6.5	6.0	6.0	2.0	1.5	1.5	2.0	1.0	1.5	2.0	1.5	1.5
23	6.0	5.5	6.0	2.0	1.5	2.0	2.5	2.0	2.0	2.0	1.5	2.0
24	6.5	5.5	6.0	2.0	0.5	1.5	2.5	2.0	2.5	1.5	0.5	1.0
25	8.0	6.5	7.0	2.0	0.5	1.5	2.5	2.0	2.5	0.5	0.0	0.0
26	8.0	7.0	7.5	1.5	1.5	1.5	2.0	1.5	2.0	0.0	0.0	0.0
27	7.0	6.0	6.5	1.5	1.5	1.5	1.5	1.0	1.0	0.0	0.0	0.0
28	6.0	5.0	5.0	1.5	0.0	1.0	1.5	0.5	1.0	0.0	0.0	0.0
29	5.0	3.5	4.5	1.0	0.5	1.0	1.5	1.5	1.5	0.0	0.0	0.0
30	3.5	3.0	3.0	1.0	0.0	0.5	2.0	1.5	2.0	0.0	0.0	0.0
31	3.5	2.5	3.0	---	---	---	2.0	2.0	2.0	1.0	0.0	0.0
MONTH	9.0	2.5	6.5	4.5	0.0	2.4	2.5	0.0	1.5	2.0	0.0	0.6

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE—Continued

TEMPERATURE, WATER, DEGREE CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.5	1.0	2.0	1.0	1.5	1.5	1.0	1.5	4.0	3.5	4.0
2	1.0	0.5	0.5	1.5	1.0	1.5	1.5	0.5	1.0	4.5	3.5	4.0
3	1.0	0.5	1.0	1.5	0.5	1.0	2.0	1.0	1.5	5.0	3.5	4.0
4	1.0	1.0	1.0	2.0	1.5	1.5	3.0	1.5	2.0	5.5	3.5	4.0
5	1.0	0.0	0.5	1.5	0.5	1.0	3.0	2.0	2.5	5.5	3.0	4.0
6	0.5	0.0	0.5	1.0	0.5	1.0	3.5	2.0	2.5	5.5	3.0	4.5
7	0.5	0.0	0.5	1.0	0.5	0.5	3.0	2.0	2.5	5.5	3.5	4.5
8	0.5	0.0	0.5	1.0	0.5	0.5	3.5	1.5	2.5	6.0	4.0	5.0
9	1.0	0.0	0.5	1.5	0.5	1.0	3.5	2.5	3.0	5.0	4.5	4.5
10	1.5	0.5	1.0	1.0	0.5	1.0	3.5	2.5	3.0	6.0	3.5	4.5
11	2.0	1.5	1.5	2.0	1.0	1.5	4.0	2.5	3.0	6.0	3.5	5.0
12	2.0	1.5	1.5	2.5	1.5	2.0	3.0	2.5	3.0	6.5	4.0	5.0
13	2.5	1.5	2.0	2.5	2.0	2.0	4.0	2.5	3.0	6.5	4.0	5.5
14	2.0	1.5	2.0	2.0	1.0	2.0	4.0	2.5	3.0	6.5	4.0	5.5
15	2.0	1.5	1.5	1.5	1.0	1.0	3.5	2.0	2.5	6.0	4.0	5.0
16	2.0	1.5	2.0	1.5	0.5	1.0	3.5	1.5	2.5	6.0	5.0	5.5
17	2.5	2.0	2.0	2.0	1.0	1.5	4.0	3.0	3.5	6.5	5.0	5.5
18	2.5	2.0	2.0	1.5	1.0	1.5	3.5	2.0	3.0	6.5	5.0	6.0
19	2.0	1.5	2.0	1.5	0.5	1.0	4.0	2.5	3.0	7.0	5.0	6.0
20	2.0	1.5	1.5	2.0	1.5	1.5	4.0	2.0	3.5	7.5	4.5	6.0
21	2.5	1.5	2.0	2.0	1.0	1.5	4.5	2.0	3.5	7.0	5.0	6.0
22	2.5	1.5	2.0	2.0	1.0	1.5	4.0	2.5	3.5	7.5	4.5	6.0
23	2.5	2.0	2.5	2.5	1.5	2.0	3.5	2.0	3.0	7.5	5.0	6.5
24	2.5	2.0	2.0	2.5	1.5	2.0	4.0	3.0	3.0	7.0	6.0	6.5
25	2.0	1.0	1.5	3.0	2.0	2.5	3.5	3.0	3.0	6.5	5.5	6.0
26	1.5	1.0	1.5	2.5	1.5	2.0	4.0	3.0	3.5	6.5	5.5	6.0
27	1.5	0.5	1.0	2.5	2.0	2.0	4.5	3.0	3.5	7.0	5.5	6.5
28	2.0	1.0	1.5	2.0	1.0	1.5	4.5	3.5	4.0	7.0	5.5	6.5
29	1.5	1.0	1.5	1.5	0.5	1.0	5.0	2.5	4.0	6.5	5.5	6.5
30	---	---	---	1.0	0.5	1.0	5.5	3.0	4.0	7.5	6.0	7.0
31	---	---	---	1.0	0.5	1.0	---	---	---	7.0	6.0	6.5
MONTH	2.5	0.0	1.4	3.0	0.5	1.4	5.5	0.5	2.9	7.5	3.0	5.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	6.0	7.0	12.5	11.0	12.0	12.0	11.0	11.5	11.5	10.0	11.0
2	7.0	6.0	6.5	12.0	11.5	12.0	13.0	11.5	12.0	11.5	10.0	10.5
3	8.5	6.0	7.0	13.0	11.5	12.0	13.0	12.0	12.5	11.5	11.0	11.0
4	8.0	6.5	7.5	12.5	11.5	12.0	14.0	11.0	12.5	11.0	10.5	11.0
5	8.5	7.5	8.0	12.5	11.0	11.5	13.0	11.0	12.0	11.0	10.0	10.5
6	9.0	7.0	8.0	12.0	11.0	11.5	12.5	12.0	12.0	10.5	10.0	10.5
7	10.0	7.5	8.5	12.5	11.0	12.0	13.5	12.0	12.5	10.0	8.5	9.5
8	9.0	7.5	8.0	14.0	11.0	12.0	13.5	11.0	12.0	8.5	7.5	8.5
9	8.5	7.5	8.0	13.5	11.5	12.5	14.0	11.0	12.5	8.0	6.5	7.5
10	8.5	7.0	8.0	12.5	12.0	12.0	14.0	11.5	13.0	8.0	6.0	7.0
11	8.0	7.0	7.5	13.0	11.5	12.0	14.0	12.5	13.0	8.0	7.0	7.5
12	8.5	7.5	8.0	14.0	11.0	12.5	14.0	11.5	12.5	8.5	8.0	8.5
13	8.5	7.5	8.0	14.5	11.5	13.0	14.0	11.5	12.5	9.5	8.5	9.0
14	8.0	7.5	8.0	14.5	12.0	13.0	14.0	11.0	12.5	9.0	8.5	9.0
15	9.0	7.5	8.5	15.0	12.0	13.5	14.5	12.0	13.0	8.5	8.0	8.5
16	10.0	7.5	9.0	15.5	12.5	14.0	14.5	12.5	13.5	8.5	7.5	8.0
17	11.0	8.0	9.5	14.0	13.0	13.5	15.0	13.0	14.0	7.5	6.5	7.0
18	12.0	9.0	10.5	14.0	12.5	13.0	14.5	13.5	14.0	7.0	5.5	6.5
19	12.5	10.0	11.5	13.5	11.5	12.5	14.0	13.5	13.5	7.0	5.5	6.0
20	13.5	10.5	12.0	13.0	12.5	12.5	14.0	13.0	13.5	---	---	---
21	13.0	10.5	12.0	13.0	12.0	12.5	14.5	12.5	13.5	---	---	---
22	14.0	11.0	12.5	14.0	12.0	13.0	14.0	12.0	13.0	---	---	---
23	14.0	11.0	12.5	13.5	12.5	13.0	13.0	10.5	12.0	---	---	---
24	14.5	11.5	13.0	14.5	12.5	13.0	13.0	10.5	12.0	---	---	---
25	15.0	12.0	13.5	13.5	12.0	12.5	12.5	10.5	11.5	---	---	---
26	13.5	12.0	12.5	12.5	12.0	12.0	12.5	11.0	12.0	---	---	---
27	12.5	11.5	12.0	12.5	12.0	12.0	12.5	11.5	12.0	---	---	---
28	12.0	11.0	11.5	13.0	12.0	12.5	12.5	11.5	12.0	---	---	---
29	11.5	11.0	11.5	12.5	12.0	12.5	12.5	11.0	12.0	---	---	---
30	12.0	11.0	11.5	13.0	11.5	12.5	12.5	11.0	11.5	---	---	---
31	---	---	---	12.5	11.0	12.0	12.0	10.5	11.5	---	---	---
MONTH	15.0	6.0	9.7	15.5	11.0	12.5	15.0	10.5	12.5	---	---	---

15106970 MIDDLE BASIN CREEK NEAR TENAKEE

LOCATION.--Lat 57°41'33", long 135°12'06", in NE¹/₄ NE¹/₄ SE¹/₄ 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 mi²

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. No estimated daily discharges.

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	1.1	0.75	0.84	0.49	0.49	0.64	0.52	0.77	0.69	0.22	0.12	0.05
2	0.98	0.67	1.4	0.42	0.44	0.64	0.98	0.99	0.62	0.22	0.14	0.07
3	0.89	0.60	0.66	0.38	0.42	0.66	1.2	1.1	0.63	0.21	0.13	0.13
4	0.86	0.55	0.61	0.37	0.44	0.65	0.87	1.2	0.62	0.20	0.12	0.10
5	0.80	0.50	0.59	0.34	0.58	0.65	0.74	1.3	0.63	0.20	0.12	0.06
6	0.81	0.46	0.53	0.33	0.54	0.60	0.69	1.3	0.57	0.25	0.12	0.08
7	0.79	0.44	0.46	0.36	0.48	1.2	0.69	1.2	0.56	0.21	0.11	0.07
8	0.71	0.42	0.42	0.35	0.79	2.1	0.63	1.2	0.49	0.20	0.09	0.05
9	0.63	0.61	0.39	0.39	1.6	1.0	0.63	1.1	0.44	0.20	0.10	0.04
10	0.57	0.53	0.37	0.40	1.7	1.6	0.65	1.1	0.41	0.20	0.12	0.04
11	0.54	0.65	0.43	0.39	1.5	1.5	0.66	1.1	0.38	0.19	0.10	0.05
12	0.48	2.4	0.45	0.41	1.5	1.00	0.67	1.1	0.39	0.18	0.09	0.08
13	0.52	2.1	0.43	0.54	1.6	0.89	0.67	1.2	0.36	0.19	0.09	0.13
14	0.50	2.1	0.38	1.1	1.1	0.83	0.66	1.3	0.32	0.19	0.10	0.09
15	0.46	1.6	0.43	0.71	0.96	0.87	0.61	1.3	0.31	0.19	0.11	0.08
16	0.47	1.4	0.59	0.62	0.99	0.83	0.54	1.3	0.30	0.19	0.12	0.07
17	0.45	1.2	0.78	0.84	0.96	0.74	0.56	1.2	0.31	0.18	0.11	0.05
18	0.46	0.97	0.89	0.97	0.90	0.69	0.52	1.1	0.32	0.18	0.10	0.04
19	0.43	0.85	1.2	0.79	0.90	0.58	0.52	1.1	0.32	0.17	0.10	0.04
20	0.41	0.74	0.84	1.1	1.0	0.53	0.50	1.1	0.32	0.17	0.10	0.29
21	0.38	0.70	1.6	1.2	1.1	0.53	0.46	1.2	0.31	0.15	0.10	0.60
22	0.43	0.72	3.5	1.6	1.1	0.54	0.50	1.2	0.30	0.14	0.09	0.33
23	0.42	0.62	2.1	1.2	1.1	0.52	0.46	1.1	0.29	0.16	0.08	0.73
24	0.46	0.63	1.9	0.96	1.0	0.52	0.50	1.1	0.28	0.15	0.09	0.66
25	0.93	0.59	1.4	0.76	0.92	0.55	0.63	1.1	0.28	0.13	0.08	0.61
26	0.96	0.53	0.99	0.58	0.83	0.53	0.65	1.1	0.25	0.11	0.08	0.61
27	1.2	0.48	0.75	0.64	0.73	0.49	0.62	1.0	0.22	0.13	0.12	0.75
28	1.5	0.48	0.65	0.58	0.69	0.69	0.66	0.92	0.21	0.16	0.09	0.63
29	1.2	0.44	0.65	0.55	0.68	0.71	0.67	0.86	0.22	0.13	0.07	0.62
30	1.0	0.49	0.69	0.52	---	0.62	0.69	0.78	0.23	0.13	0.07	0.56
31	0.87	---	0.61	0.52	---	0.52	---	0.73	---	0.12	0.06	---
TOTAL	22.21	25.22	27.53	20.41	27.04	24.42	19.35	34.15	11.58	5.45	3.12	7.71
MEAN	0.72	0.84	0.89	0.66	0.93	0.79	0.65	1.10	0.39	0.18	0.10	0.26
MAX	1.5	2.4	3.5	1.6	1.7	2.1	1.2	1.3	0.69	0.25	0.14	0.75
MIN	0.38	0.42	0.37	0.33	0.42	0.49	0.46	0.73	0.21	0.11	0.06	0.04
MED	0.63	0.62	0.65	0.55	0.92	0.65	0.64	1.1	0.32	0.18	0.10	0.08
AC-FT	44	50	55	40	54	48	38	68	23	11	6.2	15
CFSM	5.97	7.01	7.40	5.49	7.77	6.56	5.38	9.18	3.22	1.47	0.84	2.14
IN.	6.89	7.82	8.53	6.33	8.38	7.57	6.00	10.59	3.59	1.69	0.97	2.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)#

	1999	2000	2001	2002	2003	2004	2004	2004	2004	2004	2004	2004
MEAN	1.50	1.24	1.39	0.68	0.56	0.45	0.37	0.71	0.70	0.33	0.25	0.80
MAX	2.98	2.65	3.75	0.97	0.93	0.79	0.65	1.10	1.31	0.65	0.40	1.34
(WY)	2000	2000	2000	2003	2004	2004	2004	2004	2002	1999	2002	2000
MIN	0.72	0.83	0.45	0.47	0.30	0.26	0.17	0.42	0.24	0.18	0.10	0.26
(WY)	2004	2001	2002	2000	2000	2002	2002	2003	2003	2004	2004	2004

See Period of Record; partial years used in monthly statistics

15106970 MIDDLE BASIN CREEK NEAR TENAKEE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004#	
ANNUAL TOTAL	192.05		228.19			
ANNUAL MEAN	0.53		0.62		0.74	
HIGHEST ANNUAL MEAN					1.20 2000	
LOWEST ANNUAL MEAN					0.61 2003	
HIGHEST DAILY MEAN	3.5	Dec 22	3.5	Dec 22	31	Dec 27 1999
LOWEST DAILY MEAN	0.06	Aug 28	a0.04	Sep 9	a0.04	Sep 9 2004
ANNUAL SEVEN-DAY MINIMUM	0.07	Aug 23	0.06	Sep 5	0.06	Sep 5 2004
MAXIMUM PEAK FLOW			6.1 Dec 22		b66	Dec 27 1999
MAXIMUM PEAK STAGE			4.39 Dec 22		5.16	Dec 27 1999
INSTANTANEOUS LOW FLOW			a0.03 Sep 9		a0.03	Sep 9 2004
ANNUAL RUNOFF (AC-FT)	381		453		536	
ANNUAL RUNOFF (CFSM)	4.38		5.20		6.16	
ANNUAL RUNOFF (INCHES)	59.54		70.74		83.70	
10 PERCENT EXCEEDS	0.97		1.2		1.2	
50 PERCENT EXCEEDS	0.39		0.56		0.50	
90 PERCENT EXCEEDS	0.15		0.11		0.19	

See Period of Record; partial years used in monthly statistics

a Sept. 9,10,18 and 19.

b From rating curve extended above 3.0 ft³/s

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), July 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 09, 2000.

REMARKS.--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 23 and August 24, 2004. 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 winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 11.0°C, August 16; minimum, 0.0°C, on January 6 and 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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							
23...	1148	3.50	1.50	4.01	1.1	2.5	1.5
23...	1149	3.50	2.00	4.01	1.1	2.5	1.5
23...	1150	3.50	3.00	4.01	1.1	2.5	1.5
23...	1151	3.50	4.00	4.01	1.1	2.5	1.5
AUG							
24...	1510	5.00	.50	3.57	.10	9.5	17.5
24...	1511	5.00	1.50	3.57	.10	9.5	17.5
24...	1512	5.00	2.50	3.57	.10	9.5	17.5
24...	1513	5.00	3.50	3.57	.10	9.5	17.5
24...	1514	5.00	9.50	3.57	.10	9.5	17.5

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

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

15106970 MIDDLE BASIN CREEK NEAR TENAKEE—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.0	2.0	5.0	5.0	5.0
2	1.5	1.5	1.5	2.5	2.0	2.5	2.5	2.0	2.5	5.0	4.5	5.0
3	1.5	1.0	1.5	2.5	2.0	2.0	3.0	2.5	2.5	5.5	4.5	5.0
4	1.5	1.5	1.5	2.5	2.5	2.5	3.0	2.5	3.0	5.5	4.5	5.0
5	2.0	1.5	1.5	2.5	2.0	2.0	3.0	2.5	3.0	5.5	4.0	5.0
6	2.0	1.5	1.5	2.5	2.0	2.0	3.5	3.0	3.0	5.5	4.5	5.0
7	2.0	1.5	2.0	2.0	2.0	2.0	3.5	3.0	3.5	5.5	4.5	5.0
8	2.0	1.5	2.0	2.5	2.0	2.0	3.5	3.0	3.0	5.5	5.0	5.0
9	2.0	1.0	2.0	2.5	2.0	2.0	4.0	3.5	3.5	5.5	5.0	5.0
10	2.5	2.0	2.0	2.5	2.0	2.0	4.0	3.5	3.5	5.5	4.5	5.0
11	3.0	2.5	2.5	2.5	2.0	2.5	4.0	3.5	4.0	6.0	4.5	5.0
12	3.0	2.5	2.5	3.0	2.5	2.5	4.0	4.0	4.0	6.0	5.0	5.5
13	3.0	2.5	3.0	2.5	2.5	2.5	4.0	3.5	4.0	6.0	5.0	5.5
14	3.0	2.5	3.0	2.5	2.5	2.5	4.0	3.5	4.0	6.0	5.0	5.5
15	2.5	2.5	2.5	2.5	2.5	2.5	4.0	3.0	3.5	6.0	5.0	5.5
16	2.5	2.5	2.5	2.5	2.0	2.0	4.0	2.5	3.5	5.5	5.0	5.5
17	3.0	2.5	2.5	2.5	2.0	2.5	4.0	3.5	3.5	6.0	5.0	5.5
18	3.0	2.5	3.0	2.5	2.0	2.0	3.5	3.0	3.5	6.0	5.5	5.5
19	3.0	3.0	3.0	2.0	1.5	2.0	4.0	3.0	3.5	6.5	5.5	6.0
20	3.0	3.0	3.0	2.5	2.0	2.0	4.0	3.0	3.5	6.5	5.5	6.0
21	3.5	3.0	3.0	2.5	2.0	2.0	4.0	3.0	3.5	6.5	5.5	6.0
22	3.0	3.0	3.0	2.5	2.0	2.0	4.0	3.5	4.0	6.5	5.5	6.0
23	3.5	3.0	3.0	2.5	2.0	2.0	4.0	3.5	3.5	6.5	5.5	6.0
24	3.0	3.0	3.0	2.5	2.0	2.5	4.0	3.5	4.0	6.0	5.5	6.0
25	3.0	2.5	2.5	3.0	2.5	2.5	4.0	4.0	4.0	6.0	5.5	6.0
26	2.5	2.5	2.5	3.0	2.5	2.5	4.5	4.0	4.0	6.0	5.5	5.5
27	2.5	2.0	2.5	3.0	2.5	2.5	4.5	4.0	4.0	6.0	5.5	5.5
28	2.5	2.0	2.5	3.0	2.5	2.5	4.5	4.0	4.0	6.0	5.0	5.5
29	2.5	2.0	2.5	2.5	2.0	2.5	5.0	3.5	4.0	6.0	5.5	5.5
30	---	---	---	2.0	2.0	2.0	5.5	4.0	4.5	6.0	5.5	6.0
31	---	---	---	2.0	2.0	2.0	---	---	---	6.0	5.5	6.0
MONTH	3.5	1.0	2.4	3.0	1.5	2.2	5.5	2.0	3.5	6.5	4.0	5.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.5	6.0	8.5	8.5	8.5	9.0	8.5	9.0	9.5	8.5	9.0
2	6.0	5.5	5.5	8.5	8.5	8.5	9.5	8.5	9.0	9.5	9.0	9.0
3	6.5	5.5	6.0	8.5	8.5	8.5	9.5	9.0	9.0	9.5	9.0	9.5
4	6.5	5.5	6.0	8.5	8.0	8.5	9.5	8.5	9.0	9.5	9.0	9.0
5	6.5	6.0	6.5	8.5	8.0	8.5	9.5	8.5	9.0	9.0	9.0	9.0
6	7.0	6.0	6.5	8.5	8.0	8.5	9.5	9.0	9.0	9.0	9.0	9.0
7	7.5	6.5	7.0	9.0	8.5	8.5	9.5	9.0	9.5	9.0	8.0	8.5
8	7.0	6.5	6.5	9.5	8.0	8.5	10.0	8.5	9.5	8.5	8.0	8.0
9	6.5	6.5	6.5	9.0	8.5	8.5	10.0	9.0	9.5	8.0	6.5	7.5
10	6.5	6.0	6.5	8.5	8.5	8.5	10.5	9.0	9.5	8.0	6.5	7.0
11	6.5	6.0	6.0	9.0	8.5	8.5	10.0	9.5	9.5	8.0	7.0	7.5
12	7.0	6.0	6.5	9.5	8.0	8.5	10.0	9.0	9.5	8.5	8.0	8.0
13	6.5	6.0	6.5	9.5	8.5	9.0	10.0	9.0	9.5	8.5	8.5	8.5
14	6.5	6.5	6.5	9.5	8.5	9.0	10.0	9.0	9.5	8.5	8.0	8.0
15	7.0	6.5	6.5	9.5	8.5	9.0	10.5	9.0	10.0	8.0	7.5	8.0
16	7.0	6.0	6.5	10.0	8.5	9.0	11.0	9.5	10.0	8.0	7.5	8.0
17	7.5	6.5	7.0	9.0	9.0	9.0	10.5	9.5	10.0	8.0	6.5	7.5
18	8.0	7.0	7.5	9.5	8.5	9.0	10.5	10.0	10.0	7.5	6.5	7.0
19	8.5	7.0	7.5	9.0	8.5	9.0	10.0	10.0	10.0	7.5	6.0	7.0
20	8.5	7.5	8.0	9.0	9.0	9.0	10.0	10.0	10.0	8.5	7.5	8.0
21	8.5	7.5	8.0	9.0	9.0	9.0	10.5	9.5	10.0	9.0	8.5	8.5
22	9.0	7.5	8.5	9.5	8.5	9.0	10.0	9.5	10.0	8.5	8.5	8.5
23	9.0	8.0	8.5	9.5	9.0	9.0	10.0	8.5	9.5	9.0	8.5	8.5
24	9.0	8.0	8.5	9.5	9.0	9.0	10.0	9.0	9.5	8.5	8.0	8.5
25	9.5	8.0	8.5	9.0	9.0	9.0	10.0	9.0	9.5	8.5	8.0	8.0
26	9.0	8.5	8.5	9.0	8.5	9.0	10.0	9.0	9.5	8.0	8.0	8.0
27	8.5	8.0	8.5	9.0	8.5	9.0	9.5	9.5	9.5	8.0	7.5	8.0
28	8.5	8.0	8.5	9.5	9.0	9.0	9.5	9.0	9.5	7.5	7.5	7.5
29	8.5	8.0	8.5	9.0	9.0	9.0	9.5	9.0	9.5	7.5	7.5	7.5
30	8.5	8.5	8.5	9.0	8.5	9.0	9.5	9.0	9.5	7.5	7.5	7.5
31	---	---	---	9.0	8.5	9.0	9.5	9.0	9.5	---	---	---
MONTH	9.5	5.5	7.2	10.0	8.0	8.8	11.0	8.5	9.5	9.5	6.0	8.1

15109048 PETERSON CREEK BELOW NORTH FORK NEAR AUKE BAY

LOCATION. (REVISED)--Lat 58°17'00", long 134°39'54", in SE¹/₄ NW¹/₄ SW¹/₄ sec. 29, T. 41 S., R. 66 E. (Juneau B-2 SW), Hydrologic Unit 19010301, City and Borough of Juneau, on Douglas Island, in Tongass National Forest, on left bank 100 ft downstream from North Fork Peterson Creek, 1.25 mi upstream from mouth, 7.2 mi south of Auke Bay, and 9.6 mi west of Douglas.

DRAINAGE AREA.--4.33 mi²,

PERIOD OF RECORD.--November 1998 to September 2004 (discontinued)

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

GAGE.--Water-stage recorder. Elevation of gage is 50 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	e12	9.2	4.6	e1.7	4.6	7.9	22	6.2	2.7	e2.8	e2.1
2	8.7	e12	24	e3.4	e1.9	4.3	26	24	6.2	2.6	e2.7	e2.5
3	e7.0	e8.3	13	e3.0	e2.5	4.2	43	21	5.8	2.7	e3.1	3.6
4	e15	e7.0	9.8	e2.6	3.4	4.4	26	20	5.5	2.6	e2.8	4.1
5	e20	e6.2	6.0	e2.3	5.6	4.9	17	15	6.5	2.7	e2.6	5.1
6	e15	e5.8	e4.7	e2.1	6.4	4.9	12	12	6.7	2.7	e2.5	11
7	e35	e5.7	e4.6	e1.9	5.0	8.0	9.9	12	8.5	2.6	e2.5	12
8	e24	e5.4	e4.4	e1.8	7.5	21	12	13	7.1	2.5	e2.4	7.3
9	e18	11	e4.3	e2.8	47	18	10	12	6.5	2.3	e2.3	5.2
10	e18	10	e4.2	5.3	33	12	9.9	12	5.5	2.3	e2.2	4.1
11	e14	14	4.1	6.7	24	11	9.4	12	5.0	2.2	e2.7	3.4
12	e10	93	4.1	5.9	26	8.1	9.5	13	4.6	2.1	e3.0	3.1
13	e10	50	4.2	13	18	6.7	9.3	14	4.6	2.1	e2.5	16
14	e9.5	29	4.1	130	14	5.7	8.6	15	4.9	2.0	e2.3	12
15	e7.8	21	4.1	37	10	5.3	7.6	13	4.6	2.0	e2.2	9.0
16	e7.1	15	7.0	19	8.0	6.1	6.8	13	4.2	2.0	e2.1	6.4
17	e6.7	9.9	20	12	6.8	6.9	6.3	11	4.1	1.9	e2.0	4.8
18	e10	7.2	21	25	6.4	5.6	5.9	11	4.2	1.9	e2.2	4.0
19	e11	6.5	37	24	6.9	4.7	5.4	11	4.5	1.9	e2.3	3.5
20	e13	5.7	24	31	9.4	4.2	5.0	14	4.4	1.8	e2.3	7.6
21	e11	6.3	22	35	14	3.9	4.9	14	4.2	2.0	e2.2	26
22	e14	6.5	31	42	28	3.9	5.4	11	3.9	2.1	e2.0	15
23	e16	6.5	34	29	18	3.9	6.2	9.4	3.7	2.1	e2.0	72
24	e15	9.6	25	19	13	4.1	6.2	12	3.5	2.3	e1.8	51
25	15	9.1	22	e10	9.1	13	6.7	15	3.4	2.9	e1.8	22
26	30	6.0	15	e5.5	7.1	20	9.9	14	3.3	2.6	e1.8	13
27	23	5.8	8.9	e3.3	6.1	13	8.7	9.9	3.2	2.4	e2.1	12
28	44	e4.4	6.7	e2.2	5.4	10	7.8	7.7	3.1	3.4	e2.5	10
29	e26	4.6	5.9	e1.6	4.9	9.7	7.2	6.9	2.9	4.2	e3.0	8.3
30	e21	5.4	5.6	e1.5	---	11	10	6.6	2.8	5.2	e2.7	7.7
31	e16	---	5.2	e1.6	---	9.1	---	6.4	---	e3.3	e2.3	---
TOTAL	502.8	398.9	395.1	484.1	349.1	252.2	320.5	402.9	143.6	78.1	73.7	363.8
MEAN	16.2	13.3	12.7	15.6	12.0	8.14	10.7	13.0	4.79	2.52	2.38	12.1
MAX	44	93	37	130	47	21	43	24	8.5	5.2	3.1	72
MIN	6.7	4.4	4.1	1.5	1.7	3.9	4.9	6.4	2.8	1.8	1.8	2.1
AC-FT	997	791	784	960	692	500	636	799	285	155	146	722
CFSM	3.75	3.07	2.94	3.61	2.78	1.88	2.47	3.00	1.11	0.58	0.55	2.80
IN.	4.32	3.43	3.39	4.16	3.00	2.17	2.75	3.46	1.23	0.67	0.63	3.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)#

	1999	2000	2001	2002	2003	2004	1999	2000	2001	2002	2003	2004
MEAN	19.8	12.6	16.3	11.1	7.32	6.74	9.07	12.8	10.7	7.52	8.32	16.8
MAX	29.6	19.7	43.2	16.1	12.2	8.14	19.2	18.1	14.9	15.9	16.6	22.8
(WY)	2003	2000	2000	2003	2002	2004	1999	1999	1999	2000	2002	2003
MIN	15.9	4.99	8.30	5.57	2.00	4.14	3.02	5.79	4.01	2.52	2.38	12.1
(WY)	2001	1999	2002	2000	1999	2002	2002	2003	2003	2004	2004	2004

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1999 - 2004#

ANNUAL TOTAL	3702.2	3764.8
ANNUAL MEAN	10.1	10.3
HIGHEST ANNUAL MEAN		11.7
LOWEST ANNUAL MEAN		15.5
HIGHEST DAILY MEAN	189	130
LOWEST DAILY MEAN	a1.8	1.5
ANNUAL SEVEN-DAY MINIMUM	1.9	1.9
MAXIMUM PEAK FLOW		232
MAXIMUM PEAK STAGE		9.46
INSTANTANEOUS LOW FLOW		b
ANNUAL RUNOFF (AC-FT)	7340	7470
ANNUAL RUNOFF (CFSM)	2.34	2.38
ANNUAL RUNOFF (INCHES)	31.81	32.34
10 PERCENT EXCEEDS	21	22
50 PERCENT EXCEEDS	6.3	6.6
90 PERCENT EXCEEDS	2.8	2.3

See Period of Record; partial years used in monthly statistics

a Jul. 19 and 20

b Not determined; see lowest daily mean

e Estimated

15129000 ALSEK RIVER NEAR YAKUTAT
(International gaging station)

LOCATION.--Lat 59°23'42", long 138°04'55", in NW¹/₄ NE¹/₄ 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 mi².

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e49000	16300	e6000	e5600	e2900	e3500	e3900	12500	49200	123000	96000	56900
2	e43000	15800	e6200	e5400	e2900	e3500	e4100	13700	49300	119000	86000	58600
3	e36000	15300	e6000	e5200	e2900	e3400	e4400	15500	49400	120000	91000	85400
4	41200	14500	e5800	e5100	e2900	e3400	5040	17400	49100	114000	90300	90900
5	42900	13600	e5700	e5000	e2900	e3300	4910	19200	52200	109000	89400	73500
6	42800	13400	e5600	e4900	e3000	e3300	4840	20400	57800	103000	92400	56900
7	42800	13200	e5500	e4800	e3000	e3400	5010	20900	75700	102000	96000	43900
8	41600	13000	e5500	e3800	e3100	e3400	5740	21400	94200	105000	98300	35000
9	39200	14500	e5400	e4000	e3200	e3400	5550	22600	100000	108000	98600	29100
10	36500	14000	e5400	e4000	e3300	e3400	5600	23200	91200	106000	99300	25100
11	33700	13100	e5300	e3800	e3300	e3500	5400	23600	77600	100000	109000	22200
12	30800	14000	e5300	e3700	e3500	e3600	5410	24500	69900	99100	97700	20200
13	28200	13800	e5300	e3700	e3600	e3600	5500	26100	68000	100000	85100	20900
14	26100	13200	e5400	e3700	e3700	e3600	5750	27900	70300	99100	86600	22300
15	24400	13100	e5500	e3700	e3800	e3600	6120	30200	73100	101000	98400	21700
16	23000	12400	e5500	e3600	e3900	e3500	6150	31900	76500	105000	106000	26500
17	21700	11400	e5600	e3600	e4000	e3500	6050	33900	77600	107000	111000	48000
18	20600	10100	e5700	e3500	e4300	e3400	6160	37000	84800	106000	111000	22500
19	20600	e8700	e5800	e3700	e4300	e3400	6220	38500	95900	103000	104000	17800
20	20800	e8300	e6000	e3900	e4400	e3400	6230	41000	107000	98800	95800	16000
21	20500	e7700	e6100	e4100	e4400	e3400	6290	46300	113000	102000	92000	26300
22	20200	e7500	e7000	e4000	e4400	e3400	6480	49700	118000	103000	96400	31700
23	20300	e6900	e6800	e3800	e4400	e3400	6660	50700	123000	100000	94500	32700
24	19900	e6600	e6300	e3600	e4200	e3500	6830	52100	128000	98300	85500	38100
25	21600	e6300	e5900	e3400	e4100	e3500	7360	56400	131000	95800	77900	35900
26	23000	e6100	e5600	e3300	e3900	e3600	8290	59400	133000	90500	68400	35800
27	22400	e6000	e5300	e3200	e3800	e3600	9010	56000	131000	88500	67000	53100
28	20800	e5900	e5000	e3100	e3900	e3700	9880	53300	133000	104000	64200	47500
29	19300	e6000	e5600	e3100	e3600	e3800	10600	53300	130000	113000	63200	40400
30	17900	e5800	e5700	e3000	---	e3900	11300	52600	131000	110000	61300	38000
31	17100	---	e5900	e2900	---	e3900	---	50300	---	103000	60300	---
TOTAL	887900	326500	177700	122200	105600	108800	190780	1081500	2739800	3236100	2772600	1172900
MEAN	28640	10880	5732	3942	3641	3510	6359	34890	91330	104400	89440	39100
MAX	49000	16300	7000	5600	4400	3900	11300	59400	133000	123000	111000	90900
MIN	17100	5800	5000	2900	2900	3300	3900	12500	49100	88500	60300	16000
AC-FT	1761000	647600	352500	242400	209500	215800	378400	2145000	5434000	6419000	5499000	2326000
CFSM	2.65	1.01	0.53	0.36	0.34	0.32	0.59	3.22	8.44	9.65	8.27	3.61
IN.	3.05	1.12	0.61	0.42	0.36	0.37	0.66	3.72	9.42	11.13	9.53	4.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)#

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	24490	9973	7016	5123	4214	4027	6508	26300	68930	87430	77160	48310		
MAX	40300	19160	12640	9118	6625	6619	10870	40100	91330	104400	99370	76330		
(WY)	1995	2003	2003	2001	1993	1992	1992	1993	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 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1991 - 2004#

ANNUAL TOTAL	10647560	12922380		
ANNUAL MEAN	29170	35310	30850	
HIGHEST ANNUAL MEAN			35850	1993
LOWEST ANNUAL MEAN			23920	1996
HIGHEST DAILY MEAN	118000	Aug 16	a133000	Jun 26
LOWEST DAILY MEAN	2580	Mar 13	b2900	Jan 31
ANNUAL SEVEN-DAY MINIMUM	2620	Mar 8	2910	Jan 30
MAXIMUM PEAK FLOW			137000	Jun 26
MAXIMUM PEAK STAGE			85.87	Jun 26
ANNUAL RUNOFF (AC-FT)	21120000	25630000	22350000	
ANNUAL RUNOFF (CFSM)	2.70	3.26	2.85	
ANNUAL RUNOFF (INCHES)	36.61	44.43	38.74	
10 PERCENT EXCEEDS	76900	101000	83500	
50 PERCENT EXCEEDS	16300	15600	13000	
90 PERCENT EXCEEDS	3560	3500	3500	

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

a June 26 and 28

b January 31 to February 5

c From rating extended above 100,000 cfs

e Estimated

15129500 SITUK RIVER NEAR YAKUTAT

LOCATION.--Lat 59°35'00", long 139°29'31", in SE¹/₄ SW¹/₄ 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 mi², 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum(*).

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec 22	1245	1620	69.62	Feb 11	1130	*2030	*70.34
Feb 09	0300	1830	69.99	Sept 26	2045	1000	68.24

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	e184	196	156	182	147	210	217	262	217	129	281	83
2	e164	179	378	e170	170	195	394	292	221	124	232	122
3	e204	165	340	e160	176	186	777	278	213	124	196	304
4	e263	154	297	e150	190	184	753	265	198	124	170	374
5	e260	144	256	e150	446	178	585	254	191	128	151	327
6	e326	136	225	e140	556	169	478	244	186	126	135	277
7	e382	130	200	e130	429	169	422	234	183	121	123	233
8	e366	137	184	e130	783	174	422	223	184	116	114	200
9	e327	220	167	149	1280	172	377	215	187	113	109	176
10	e290	196	155	144	1010	229	341	207	191	112	103	156
11	e275	193	153	138	1820	290	302	199	188	107	106	143
12	e246	343	165	133	1180	301	272	194	181	104	103	145
13	e224	295	193	174	778	283	263	190	172	102	99	159
14	e202	311	189	211	612	258	251	186	167	99	94	155
15	e170	492	181	186	493	264	237	183	162	96	90	165
16	156	400	203	169	410	261	224	180	158	93	85	149
17	145	332	253	182	352	236	214	178	154	89	82	133
18	144	282	292	198	309	214	229	174	150	86	79	121
19	188	245	729	182	345	193	224	171	150	84	80	113
20	204	215	663	353	496	176	206	169	154	82	80	167
21	182	195	665	469	756	164	194	170	156	82	77	372
22	175	207	1380	387	637	156	210	171	156	84	74	379
23	205	211	966	352	509	148	265	173	156	85	72	485
24	254	195	656	301	448	140	284	187	154	85	70	549
25	384	178	496	e260	379	146	391	250	152	92	69	501
26	387	166	390	e230	327	161	392	320	149	98	75	690
27	360	154	317	e200	283	173	360	332	146	130	93	844
28	314	148	269	e180	253	211	324	298	144	270	101	772
29	272	145	240	e160	230	294	297	266	139	435	102	712
30	241	139	230	e150	---	268	272	246	134	471	96	677
31	217	---	204	e140	---	242	---	231	---	351	91	---
TOTAL	7711	6503	11192	6260	15804	6445	10177	6942	5093	4342	3432	9683
MEAN	249	217	361	202	545	208	339	224	170	140	111	323
MAX	387	492	1380	469	1820	301	777	332	221	471	281	844
MIN	144	130	153	130	147	140	194	169	134	82	69	83
AC-FT	15290	12900	22200	12420	31350	12780	20190	13770	10100	8610	6810	19210
CFSM	6.91	6.02	10.0	5.61	15.1	5.78	9.42	6.22	4.72	3.89	3.08	8.97
IN.	7.97	6.72	11.57	6.47	16.33	6.66	10.52	7.17	5.26	4.49	3.55	10.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2004, BY WATER YEAR (WY)#

MEAN	525	348	381	284	259	231	235	267	225	185	274	481
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	127	77.7	105	261
(WY)	2004	1999	1991	1996	1999	1989	2002	1996	1993	1993	1994	2003

e Estimated

15129500 SITUK RIVER NEAR YAKUTAT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1989 - 2004#	
ANNUAL TOTAL	83347		93584			
ANNUAL MEAN	228		256		308	
HIGHEST ANNUAL MEAN					382 1992	
LOWEST ANNUAL MEAN					230 1996	
HIGHEST DAILY MEAN	1380	Dec 22	1820	Feb 11	2850	Dec 27 1999
LOWEST DAILY MEAN	67	May 9	69	Aug 25	a47	Mar 5 1989
ANNUAL SEVEN-DAY MINIMUM	70	May 3	74	Aug 20	48	Mar 3 1989
MAXIMUM PEAK FLOW			2030	Feb 11	3840	Oct 18 1999
MAXIMUM PEAK STAGE			70.34	Feb 11	72.99	Oct 18 1999
INSTANTANEOUS LOW FLOW			b69	Aug 24	c47	Mar 5 1989
ANNUAL RUNOFF (AC-FT)	165300		185600		223300	
ANNUAL RUNOFF (CFSM)	6.34		7.10		8.56	
ANNUAL RUNOFF (INCHES)	86.13		96.70		116.34	
10 PERCENT EXCEEDS	369		447		588	
50 PERCENT EXCEEDS	190		195		233	
90 PERCENT EXCEEDS	91		104		112	

See Period of Record

a Mar. 5-7 1989

b Aug. 24-26

c Mar. 5, 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 August 10, 2004. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature. Missing record October 1-15 due to recorder malfunction.

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.

EXTREMES FOR CURRENT YEAR.--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Stream width, feet (000004)	Location in X-sect. looking dwnstrm ft from l bank (000009)	Gage height, feet (000065)	Instantaneous discharge, cfs (000061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
AUG							
10...	1655	57.0	10.0	65.22	101	18.0	32.0
10...	1656	57.0	20.0	65.22	101	18.0	32.0
10...	1657	57.0	30.0	65.22	101	18.0	32.0
10...	1658	57.0	40.0	65.22	101	18.0	32.0
10...	1659	57.0	50.0	65.22	101	18.0	32.0

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

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4.5	3.5	4.0	1.5	0.0	1.0	1.0	0.0	0.5			
2	---	---	---	5.0	4.0	4.5	1.5	0.0	0.5	0.0	0.0	0.0			
3	---	---	---	4.0	3.5	3.5	2.0	1.0	1.5	0.0	0.0	0.0			
4	---	---	---	3.5	3.0	3.5	2.0	1.0	1.5	0.0	0.0	0.0			
5	---	---	---	3.5	2.5	3.0	2.0	2.0	2.0	0.0	0.0	0.0			
6	---	---	---	4.5	3.0	3.5	2.0	1.0	1.5	0.0	0.0	0.0			
7	---	---	---	4.5	4.0	4.5	2.0	1.5	1.5	0.0	0.0	0.0			
8	---	---	---	5.0	4.5	4.5	2.0	2.0	2.0	0.0	0.0	0.0			
9	---	---	---	4.5	3.5	4.0	2.0	1.0	1.5	1.5	0.0	0.5			
10	---	---	---	4.0	3.5	3.5	2.0	1.0	1.5	2.0	1.5	1.5			
11	---	---	---	4.0	3.5	3.5	2.5	2.0	2.0	1.5	1.0	1.0			
12	---	---	---	4.0	3.5	4.0	2.5	2.0	2.0	1.5	1.0	1.0			
13	---	---	---	4.0	3.0	3.5	2.0	1.5	1.5	1.5	1.0	1.5			
14	---	---	---	3.5	3.0	3.0	1.5	1.0	1.5	1.0	0.5	1.0			
15	---	---	---	3.5	3.0	3.5	2.0	1.5	2.0	1.0	0.5	0.5			
16	6.0	4.5	5.5	4.0	3.0	3.5	2.0	1.5	2.0	1.0	0.0	0.5			
17	6.5	5.0	5.5	3.0	2.0	3.0	2.0	2.0	2.0	1.0	0.0	1.0			
18	6.5	6.0	6.0	2.5	2.0	2.0	2.0	1.5	1.5	1.5	1.0	1.5			
19	6.5	6.0	6.5	2.5	1.5	2.0	2.0	0.5	1.0	1.0	0.5	1.0			
20	7.0	5.5	6.5	1.5	1.0	1.0	1.5	1.0	1.5	1.0	1.0	1.0			
21	6.0	4.5	5.5	3.0	1.5	2.0	2.0	1.5	1.5	1.0	1.0	1.0			
22	6.5	6.0	6.5	3.0	2.0	3.0	1.5	1.0	1.5	1.5	1.0	1.0			
23	6.5	6.0	6.0	3.0	2.0	2.5	1.5	1.5	1.5	1.5	0.5	1.0			
24	6.5	5.5	6.0	2.5	2.0	2.5	1.5	1.0	1.5	1.0	0.0	0.5			
25	7.0	6.5	7.0	2.5	1.5	2.0	1.5	1.0	1.0	0.5	0.0	0.0			
26	7.0	6.5	7.0	2.5	1.5	1.5	1.0	0.5	0.5	0.0	0.0	0.0			
27	6.5	5.5	6.0	1.5	0.5	1.0	0.5	0.0	0.5	0.0	0.0	0.0			
28	5.5	5.0	5.5	1.0	0.0	0.5	1.0	0.0	0.5	0.0	0.0	0.0			
29	5.0	4.5	5.0	0.5	0.0	0.5	1.5	1.0	1.0	0.0	0.0	0.0			
30	5.5	4.5	5.0	1.0	0.0	0.5	1.5	1.0	1.5	0.0	0.0	0.0			
31	5.0	4.5	5.0	---	---	---	1.5	1.0	1.0	0.0	0.0	0.0			
MONTH	---	---	---	5.0	0.0	2.8	2.5	0.0	1.4	2.0	0.0	0.5			

15129500 SITUK RIVER NEAR YAKUTAT—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
	FEBRUARY			MARCH			APRIL			MAY		
1	1.0	0.0	0.5	3.0	1.5	2.5	3.0	0.5	2.0	7.0	5.0	6.0
2	1.0	1.0	1.0	3.0	1.5	2.0	2.0	1.5	2.0	7.5	5.0	6.0
3	1.5	0.5	1.0	3.0	2.0	2.5	1.5	1.0	1.0	10.0	4.5	7.0
4	1.5	0.0	0.5	2.5	2.0	2.0	2.5	1.0	1.5	10.5	5.0	7.5
5	1.0	0.5	0.5	2.5	1.5	2.0	3.5	1.5	2.0	10.5	5.5	7.5
6	1.0	0.5	0.5	2.5	1.0	2.0	4.0	1.5	2.5	11.0	6.0	8.5
7	1.5	1.0	1.0	3.0	1.5	2.5	3.0	2.0	2.5	9.0	7.5	8.0
8	1.5	0.0	1.0	2.0	0.5	1.5	4.0	1.5	2.5	8.5	7.0	8.0
9	1.0	0.0	0.5	2.5	0.0	1.5	3.5	2.0	2.5	10.0	7.5	8.5
10	1.5	1.0	1.0	1.5	0.0	0.5	5.0	1.5	3.0	10.5	7.0	8.5
11	1.0	0.5	0.5	2.5	1.0	2.0	5.5	1.5	3.0	12.5	7.0	9.5
12	1.0	0.5	1.0	3.0	1.5	2.0	4.5	2.0	3.0	13.0	8.0	10.0
13	1.5	1.0	1.5	3.0	1.5	2.0	5.0	2.5	3.5	13.0	7.5	10.0
14	1.5	1.0	1.5	1.5	0.5	1.0	6.0	2.5	4.0	10.5	8.5	9.5
15	1.5	1.0	1.0	2.5	0.5	1.5	6.0	2.0	4.0	10.5	8.5	9.5
16	2.0	1.0	1.5	3.0	1.5	2.0	5.0	2.0	3.5	9.5	8.5	9.0
17	2.0	1.0	1.5	3.5	1.5	2.0	5.5	3.0	4.0	12.0	8.5	10.0
18	2.0	1.0	1.5	2.5	0.5	1.5	4.5	3.0	3.5	11.0	9.0	10.0
19	2.0	1.5	1.5	2.5	0.5	1.5	5.5	2.0	3.5	13.0	9.0	10.5
20	2.0	1.5	1.5	3.0	0.5	1.5	7.0	2.5	4.5	15.0	9.5	11.5
21	1.5	1.5	1.5	4.0	0.0	2.0	6.5	3.0	4.5	15.5	10.0	12.5
22	2.0	1.0	1.5	3.5	1.0	2.5	4.5	3.5	4.0	15.5	10.0	12.5
23	2.5	1.5	2.0	4.0	1.0	2.5	4.5	3.0	3.5	13.0	11.0	11.5
24	2.5	1.5	2.0	3.5	1.5	2.5	4.5	3.0	4.0	11.0	10.5	11.0
25	2.0	1.0	1.5	2.5	1.5	2.0	4.5	3.5	4.0	10.5	9.0	10.0
26	2.0	1.0	1.5	3.0	1.5	2.0	5.0	3.5	4.0	10.5	9.5	10.0
27	2.0	0.5	1.5	3.5	1.0	2.0	5.5	3.5	4.5	11.0	10.0	10.5
28	3.0	2.0	2.0	2.5	2.0	2.0	5.5	4.0	5.0	12.0	10.0	11.0
29	3.0	2.0	2.5	3.0	1.5	2.0	8.0	3.5	5.5	13.0	9.5	11.0
30	---	---	---	2.5	0.5	1.5	9.0	4.0	6.5	11.5	9.5	10.5
31	---	---	---	2.5	0.5	1.5	---	---	---	12.5	9.5	11.0
MONTH	3.0	0.0	1.3	4.0	0.0	1.9	9.0	0.5	3.5	15.5	4.5	9.6
	JUNE			JULY			AUGUST			SEPTEMBER		
1	11.0	9.5	10.5	15.5	13.5	14.5	15.5	14.0	15.0	13.5	11.0	12.5
2	11.0	9.5	10.0	18.5	13.0	15.5	16.0	13.5	14.5	13.0	11.5	12.0
3	14.5	9.0	11.5	16.5	14.0	14.5	17.5	12.5	15.0	13.5	12.0	12.5
4	13.5	9.5	11.5	16.0	13.5	14.5	17.5	12.5	15.0	15.0	12.5	13.5
5	11.5	10.5	11.0	15.5	13.5	14.5	17.5	12.5	15.0	15.5	13.0	14.0
6	16.0	10.5	12.5	19.0	13.0	15.5	17.5	13.5	15.5	14.5	12.0	13.5
7	13.0	11.5	12.0	19.5	14.0	16.5	17.5	13.0	15.0	14.0	11.0	12.5
8	12.0	11.0	11.5	20.0	13.5	16.5	18.0	13.0	15.5	13.5	10.0	11.5
9	13.0	10.5	11.5	17.5	14.5	15.5	18.0	12.5	15.5	13.0	9.5	11.0
10	11.5	10.0	11.0	18.5	14.0	16.0	18.0	13.0	15.5	12.0	9.0	10.5
11	13.0	10.0	11.0	19.0	13.5	16.0	16.5	14.0	15.0	12.0	9.5	11.0
12	14.0	10.0	12.0	19.5	13.5	16.5	16.5	12.0	14.5	11.5	10.0	10.5
13	16.5	10.0	13.0	17.5	14.5	16.0	17.5	12.5	15.0	12.0	10.0	11.0
14	13.5	11.5	12.0	16.5	14.0	15.0	17.0	12.5	15.0	11.0	10.0	10.5
15	13.0	11.0	12.0	19.0	13.5	16.0	17.5	13.0	15.0	11.5	9.5	10.5
16	13.0	10.0	11.5	19.5	13.5	16.5	17.5	13.0	15.5	11.5	9.5	10.5
17	17.0	11.0	13.5	17.5	15.0	15.5	17.5	13.5	15.5	10.5	8.0	9.0
18	18.0	11.5	14.5	16.0	14.0	15.0	16.0	13.5	15.0	10.0	7.0	8.5
19	19.5	12.0	15.5	18.0	13.0	15.5	15.0	13.5	14.0	9.5	6.5	8.0
20	20.0	13.0	16.5	17.5	13.5	15.5	15.5	12.5	14.0	9.5	8.5	9.0
21	20.0	13.5	16.5	16.5	14.5	15.5	15.5	12.0	14.0	10.5	9.0	9.5
22	20.0	14.0	17.0	15.0	13.5	14.0	16.0	11.5	14.0	10.5	10.0	10.0
23	20.0	14.5	17.0	15.0	12.5	14.0	15.5	11.5	13.5	10.0	9.5	10.0
24	20.5	15.0	17.5	16.5	13.0	14.5	15.0	12.0	13.5	10.5	10.0	10.0
25	20.5	14.5	17.5	15.0	13.5	14.5	13.5	11.5	12.0	10.0	9.5	9.5
26	19.0	15.5	17.0	14.5	12.5	13.5	13.0	11.5	12.0	9.5	9.5	9.5
27	18.0	15.0	16.5	13.5	13.0	13.5	13.5	11.5	12.5	9.5	9.5	9.5
28	16.0	15.0	15.5	14.0	13.0	13.5	13.0	11.5	12.5	9.5	9.0	9.0
29	16.5	14.0	15.0	14.5	13.5	14.0	14.5	11.5	13.0	9.5	9.0	9.0
30	15.0	14.0	14.5	15.0	13.5	14.0	14.5	11.0	13.0	9.5	9.0	9.5
31	---	---	---	15.5	14.0	14.5	14.0	10.5	12.5	---	---	---
MONTH	20.5	9.0	13.6	20.0	12.5	15.0	18.0	10.5	14.3	15.5	6.5	10.6

15129510 OLD SITUK RIVER NEAR YAKUTAT

LOCATION.--Lat 59°34'14", long 139°26'18", in NW¹/₄ NE¹/₄ NW¹/₄ 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 mi².

WATER-DISCHARGE RECORDS

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.--Records fair. No estimated daily discharges.

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	26	32	27	36	25	42	28	52	23	13	18	9.7
2	26	31	45	33	28	42	44	55	24	13	17	14
3	30	30	35	31	27	43	68	51	24	13	17	19
4	31	29	32	29	27	40	67	49	23	12	16	17
5	29	28	30	28	43	38	59	47	22	13	15	16
6	34	28	28	28	48	36	54	46	22	12	15	16
7	44	27	26	27	43	38	52	46	20	12	14	15
8	42	28	26	26	79	37	51	44	20	12	13	14
9	39	33	25	27	127	33	48	43	19	12	13	14
10	37	28	25	25	117	41	46	41	19	12	13	13
11	35	29	26	24	189	43	46	39	19	11	13	13
12	33	43	27	24	137	40	44	36	19	11	12	14
13	31	37	28	29	104	38	44	35	19	11	12	14
14	31	39	26	30	89	36	43	33	18	11	12	13
15	31	48	26	26	75	37	41	32	17	11	12	14
16	30	43	28	24	67	34	40	31	17	11	12	13
17	29	40	30	27	60	32	40	30	17	11	11	12
18	29	36	32	25	56	31	41	29	17	11	11	11
19	33	33	64	23	61	29	40	28	17	11	11	11
20	33	32	60	39	72	27	39	27	17	10	11	17
21	31	31	70	44	102	27	38	26	16	9.9	11	24
22	30	34	139	39	88	27	41	26	16	9.9	10	23
23	31	32	104	38	73	26	44	25	16	9.6	10	32
24	33	31	81	33	69	26	46	27	15	9.7	10	31
25	47	28	67	31	60	26	59	31	15	10	9.9	28
26	45	28	56	29	55	27	63	31	14	9.8	11	53
27	42	26	50	28	50	27	60	29	14	14	11	58
28	39	26	48	27	47	30	56	27	14	18	11	50
29	36	25	46	26	45	32	55	26	13	20	11	49
30	35	24	45	25	---	30	53	25	13	22	10	53
31	34	---	40	25	---	28	---	24	---	20	10	---
TOTAL	1056	959	1392	906	2063	1043	1450	1091	539	385.9	382.9	680.7
MEAN	34.1	32.0	44.9	29.2	71.1	33.6	48.3	35.2	18.0	12.4	12.4	22.7
MAX	47	48	139	44	189	43	68	55	24	22	18	58
MIN	26	24	25	23	25	26	28	24	13	9.6	9.9	9.7
AC-FT	2090	1900	2760	1800	4090	2070	2880	2160	1070	765	759	1350
CFSM	7.13	6.69	9.39	6.11	14.9	7.04	10.1	7.36	3.76	2.60	2.58	4.75
IN.	8.22	7.46	10.83	7.05	16.06	8.12	11.28	8.49	4.19	3.00	2.98	5.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)#

	2003	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004
MEAN	34.1	32.0	44.9	29.2	71.1	33.6	48.3	35.2	18.0	15.0	18.8	26.1
MAX	34.1	32.0	44.9	29.2	71.1	33.6	48.3	35.2	18.0	17.5	25.3	29.4
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2003	2003
MIN	34.1	32.0	44.9	29.2	71.1	33.6	48.3	35.2	18.0	12.4	12.4	22.7
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 2003 - 2004#

ANNUAL TOTAL	11948.5		
ANNUAL MEAN	32.6	32.6	
HIGHEST ANNUAL MEAN		32.6	2004
LOWEST ANNUAL MEAN		32.6	2004
HIGHEST DAILY MEAN	189	Feb 11	189
LOWEST DAILY MEAN	9.6	Jul 23	9.6
ANNUAL SEVEN-DAY MINIMUM	9.8	Jul 20	9.8
MAXIMUM PEAK FLOW	a214	Feb 11	a214
MAXIMUM PEAK STAGE	15.14	Feb 11	15.14
INSTANTANEOUS LOW FLOW	b9.1	Jul 22	b9.1
ANNUAL RUNOFF (AC-FT)	23700		23650
ANNUAL RUNOFF (CFSM)	6.83		6.83
ANNUAL RUNOFF (INCHES)	92.99		92.80
10 PERCENT EXCEEDS	55		55
50 PERCENT EXCEEDS	29		29
90 PERCENT EXCEEDS	12		12

See Period of record; partial years were used in monthly summary statistics

a From rating curve extended above 58 ft³/s

b Jul. 22-27, Aug. 26, and Sep. 1

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. No temperature cross sections were taken in the 2004 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 16.0°C, June 19,2004; minimum, 0.0°C on November 28, 2003, February 4, and March 9-10, 2004.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.0°C June 19; minimum, 0.0°C on November 28, February 4, and March 9-10.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	6.0	6.5	3.5	3.0	3.5	3.0	0.5	1.5	2.5	1.5	2.0
2	7.5	5.5	6.5	4.5	3.5	4.0	3.0	0.5	1.5	1.5	1.0	1.0
3	7.0	6.0	6.5	3.5	3.0	3.0	2.5	1.5	2.0	1.5	1.0	1.0
4	7.5	6.5	7.0	3.0	2.5	3.0	3.0	2.0	2.5	1.0	1.0	1.0
5	7.0	6.5	6.5	3.5	2.5	3.0	3.5	3.0	3.0	1.5	1.0	1.0
6	7.0	6.0	6.5	4.0	3.0	3.5	3.0	2.5	2.5	1.5	0.5	1.0
7	7.5	6.5	7.0	4.5	3.5	4.0	3.0	2.5	3.0	1.5	1.0	1.0
8	7.0	6.0	6.5	5.0	4.0	4.5	3.5	3.0	3.0	2.5	1.5	2.0
9	6.5	5.5	6.0	5.0	3.5	4.0	3.0	2.5	3.0	3.0	1.5	3.0
10	6.0	5.0	5.5	3.5	3.0	3.5	3.5	2.5	3.0	3.5	3.0	3.0
11	6.0	4.5	5.0	4.0	3.0	3.5	3.5	3.5	3.5	3.0	2.5	2.5
12	5.0	3.5	4.5	4.5	3.5	4.0	3.5	3.5	3.5	3.0	2.5	2.5
13	5.5	4.0	4.5	4.0	2.5	3.5	3.5	3.0	3.0	3.5	3.0	3.0
14	5.0	3.5	4.0	3.5	2.0	2.5	3.0	2.0	2.5	3.0	2.5	2.5
15	4.5	3.0	4.0	4.0	3.5	3.5	3.5	3.0	3.5	2.5	2.0	2.0
16	5.0	3.0	4.0	4.0	3.0	3.5	3.5	2.5	3.0	2.5	1.5	2.0
17	5.5	3.5	4.5	3.0	2.0	3.0	4.0	3.5	3.5	2.5	1.0	2.0
18	5.5	4.5	5.0	2.5	1.5	2.0	3.5	3.0	3.5	3.0	2.5	3.0
19	6.0	5.0	5.5	2.5	1.5	2.0	3.5	3.0	3.5	3.0	2.0	2.5
20	6.0	4.5	5.5	2.0	1.0	1.5	3.5	3.0	3.0	3.0	2.5	3.0
21	5.0	3.5	4.5	3.0	1.5	2.5	4.0	3.0	3.5	3.5	3.0	3.5
22	5.5	5.0	5.0	3.5	2.0	3.0	4.0	2.5	3.5	3.5	3.0	3.5
23	5.5	5.0	5.0	3.5	2.5	3.0	3.0	2.5	3.0	3.5	2.5	3.0
24	5.5	5.0	5.0	3.5	2.5	3.0	3.5	3.0	3.0	2.5	2.0	2.0
25	6.5	5.5	6.0	3.0	2.0	2.5	3.0	2.5	3.0	2.0	0.5	1.0
26	6.0	5.5	6.0	2.5	1.5	2.0	3.0	2.0	2.5	1.0	0.5	0.5
27	5.5	4.5	5.0	2.0	1.0	1.5	2.0	2.0	2.0	1.5	0.5	1.0
28	4.5	3.5	4.0	2.0	0.0	1.0	3.0	1.5	2.5	1.0	1.0	1.0
29	4.0	3.0	3.5	1.5	1.0	1.5	3.5	3.0	3.0	2.0	0.5	1.5
30	4.5	3.5	4.0	2.0	0.5	1.5	3.5	3.0	3.5	2.0	1.5	2.0
31	4.5	3.5	4.0	---	---	---	3.0	2.5	3.0	3.0	2.0	2.5
MONTH	7.5	3.0	5.3	5.0	0.0	2.9	4.0	0.5	2.9	3.5	0.5	2.0

15129510 OLD SITUK RIVER NEAR YAKUTAT—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	3.0	2.0	2.5	4.5	3.0	4.0	4.5	1.5	3.0	7.0	5.5	6.0
2	3.0	2.0	2.5	4.0	3.5	3.5	4.0	2.5	3.5	8.5	5.0	6.5
3	3.0	1.5	2.5	4.0	3.5	3.5	3.5	3.0	3.5	10.0	5.0	7.0
4	3.0	0.0	1.5	3.5	3.0	3.5	5.0	2.5	4.0	10.0	4.5	7.0
5	3.0	2.0	2.5	3.5	2.5	3.0	5.0	3.0	4.0	10.0	5.0	7.0
6	2.5	2.0	2.5	3.5	2.5	3.0	5.5	3.5	4.5	10.0	4.5	7.0
7	3.0	2.0	2.5	4.0	2.5	3.5	4.5	3.5	4.0	7.0	6.0	6.5
8	3.0	2.5	3.0	3.0	1.0	2.5	6.0	2.5	4.5	7.0	5.5	6.0
9	3.0	2.0	2.5	3.5	0.0	2.0	5.5	4.0	4.5	8.5	5.5	6.5
10	3.5	3.0	3.0	2.5	0.0	1.5	7.0	3.0	4.5	9.0	5.0	7.0
11	3.0	2.5	2.5	4.0	2.0	3.0	7.0	2.5	4.5	11.0	5.0	7.5
12	3.0	2.5	3.0	4.0	3.0	3.5	6.0	3.5	4.5	11.0	5.5	8.0
13	4.0	3.0	3.5	5.0	3.0	3.5	6.5	4.0	5.0	11.0	5.5	8.0
14	4.0	3.5	3.5	3.0	1.5	2.5	7.5	4.0	5.5	7.5	6.5	7.0
15	3.5	3.0	3.0	3.5	1.5	2.5	8.0	3.0	5.0	8.5	6.0	7.0
16	4.0	3.0	3.5	4.5	3.0	3.5	6.5	4.0	5.0	7.5	6.0	6.5
17	4.0	3.0	3.5	5.0	3.0	3.5	6.5	4.5	5.0	10.0	6.0	7.5
18	3.5	3.0	3.5	4.5	2.0	3.0	5.5	4.0	4.5	9.0	6.5	7.5
19	3.5	3.0	3.5	4.0	1.5	2.5	7.0	3.0	5.0	11.0	6.5	8.5
20	4.0	3.5	3.5	4.5	2.0	3.0	8.0	3.5	5.5	12.5	6.5	9.0
21	4.0	3.5	4.0	5.5	1.5	3.0	8.0	3.5	5.5	13.0	7.0	9.5
22	4.0	3.0	3.5	5.5	2.5	4.0	5.0	4.0	5.0	13.0	7.0	9.5
23	4.0	3.5	4.0	6.0	2.5	4.0	5.0	3.5	4.5	9.0	7.0	8.0
24	4.5	3.5	3.5	5.0	3.0	4.0	5.0	4.0	4.5	8.0	6.5	7.0
25	3.5	2.5	3.0	4.0	3.0	3.5	5.5	4.0	5.0	7.5	6.5	7.0
26	3.5	2.5	3.0	4.5	2.5	3.5	5.5	4.5	5.0	7.5	6.5	7.0
27	3.5	2.0	3.0	5.0	2.0	3.5	6.5	4.0	5.0	8.0	6.5	7.0
28	4.5	3.0	3.5	4.0	3.0	3.5	6.0	4.5	5.5	9.5	6.0	7.5
29	4.5	3.5	4.0	5.0	3.5	4.0	9.0	4.0	6.0	11.0	6.0	8.0
30	---	---	---	4.0	1.5	3.0	9.5	4.5	6.5	8.5	6.0	7.0
31	---	---	---	4.0	2.0	2.5	---	---	---	9.0	6.0	7.5
MONTH	4.5	0.0	3.1	6.0	0.0	3.2	9.5	1.5	4.7	13.0	4.5	7.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.0	6.0	7.0	9.5	7.0	8.0	9.5	7.0	8.0	9.0	7.0	8.0
2	8.0	6.0	7.0	13.5	7.0	10.0	9.5	7.0	8.0	8.5	7.5	8.0
3	13.0	6.0	8.5	11.0	8.5	9.0	12.0	6.5	9.0	9.5	8.0	8.5
4	11.0	6.5	8.5	10.5	7.5	9.0	12.5	6.5	9.0	9.0	6.0	7.5
5	8.5	7.0	7.5	10.0	8.0	9.0	12.5	6.5	9.5	9.5	6.0	7.5
6	13.5	6.5	9.5	14.0	7.5	10.0	12.0	7.5	9.5	8.0	5.5	7.0
7	9.5	7.5	8.0	15.0	8.5	11.5	12.0	7.0	9.5	8.5	4.5	6.0
8	9.0	7.0	7.5	15.0	8.5	11.5	12.5	7.0	9.5	8.0	4.0	6.0
9	9.0	6.0	7.5	11.5	9.5	10.5	13.0	7.0	9.5	8.0	4.0	6.0
10	8.0	6.5	7.0	13.0	8.5	10.0	12.5	7.0	10.0	7.5	4.5	6.0
11	9.0	6.0	7.5	14.5	8.0	10.5	11.0	8.5	9.5	8.0	5.0	6.5
12	11.5	6.5	8.5	14.5	9.0	11.0	11.0	7.0	8.5	7.0	6.0	6.0
13	14.0	6.5	9.5	12.5	9.5	10.5	12.5	7.0	9.5	7.5	6.0	6.5
14	10.0	7.5	8.0	10.0	8.5	9.0	12.5	7.0	9.5	7.5	6.0	6.5
15	9.5	6.5	8.0	14.5	8.0	10.5	12.0	7.5	10.0	8.0	5.5	6.5
16	9.5	6.5	7.5	15.0	8.5	11.5	12.5	7.5	10.0	8.0	5.5	6.5
17	14.0	6.5	9.5	12.0	9.5	10.5	13.0	8.0	10.0	7.5	4.0	6.0
18	14.5	7.5	10.5	10.5	8.5	9.5	10.5	8.0	9.5	7.0	4.0	5.5
19	16.0	7.5	11.0	12.0	8.0	9.5	9.5	8.0	9.0	6.5	4.0	5.5
20	15.5	7.5	11.0	12.5	8.0	10.0	10.5	7.5	9.0	7.0	6.0	6.5
21	15.5	8.0	11.0	11.5	9.5	10.5	11.0	7.5	9.0	7.5	6.5	7.0
22	15.0	8.0	11.0	10.0	9.0	9.5	12.5	7.0	9.0	7.0	6.0	6.5
23	15.0	8.0	11.0	10.0	7.5	9.0	12.0	7.0	9.5	7.5	6.5	6.5
24	15.5	8.5	11.5	12.0	8.0	9.5	11.5	7.5	9.5	7.0	6.0	6.5
25	15.0	8.5	11.5	11.0	9.0	9.5	9.0	7.5	8.0	6.0	5.5	6.0
26	13.0	9.0	11.0	9.5	8.0	8.5	8.5	7.5	8.0	7.5	6.0	6.5
27	11.5	8.5	10.0	9.5	8.5	9.0	9.5	7.5	8.5	7.0	6.0	6.5
28	9.5	8.0	8.5	9.5	8.5	9.0	9.0	7.5	8.5	6.0	5.5	6.0
29	10.5	7.5	8.5	9.5	8.0	8.5	10.0	7.0	8.5	6.5	5.5	6.0
30	9.0	7.5	8.0	9.5	8.0	8.5	10.5	6.5	8.5	7.0	6.0	6.5
31	---	---	---	9.5	7.0	8.5	10.5	6.5	8.0	---	---	---
MONTH	16.0	6.0	9.0	15.0	7.0	9.7	13.0	6.5	9.1	9.5	4.0	6.5

15129600 OPHIR CREEK NEAR YAKUTAT

LOCATION.--Lat 59°31'26", long 139°44'37", in SW¹/₄ NW¹/₄ NE¹/₄ 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 mi², 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	9.1	6.5	22	16	23	18	20	3.0	1.2	1.9	1.1
2	8.0	8.4	15	22	18	22	23	20	3.3	1.2	1.8	1.8
3	9.6	7.6	12	22	18	22	36	19	3.1	1.1	1.7	2.8
4	12	6.9	11	21	19	21	36	18	3.0	1.1	1.5	2.4
5	12	6.5	9.8	20	29	21	31	17	2.9	1.2	1.5	2.0
6	15	6.1	9.1	19	35	20	28	16	2.8	1.0	1.3	1.8
7	17	5.8	8.1	e17	28	20	27	15	2.7	1.0	1.3	1.5
8	16	6.1	7.4	16	42	20	27	14	2.3	0.98	1.2	1.6
9	15	8.7	6.7	17	60	19	26	13	2.2	0.94	1.2	1.5
10	13	7.3	6.4	17	56	22	26	12	2.2	0.92	1.1	1.3
11	13	7.5	6.5	16	74	24	24	12	2.0	0.83	1.2	1.3
12	11	14	8.4	15	64	23	23	11	1.9	0.81	1.1	1.3
13	10	12	11	19	52	22	22	10	1.9	0.73	0.99	1.3
14	9.6	14	11	22	45	21	22	9.2	1.9	0.72	0.94	1.2
15	8.8	20	11	19	39	22	22	8.5	1.8	0.66	0.91	1.3
16	8.2	18	12	18	35	22	21	7.7	1.8	0.62	0.84	2.0
17	7.4	16	16	19	31	21	20	7.7	1.8	0.62	0.73	1.7
18	7.2	14	16	20	29	20	21	6.1	1.8	0.61	0.65	1.4
19	9.6	13	37	18	29	19	21	5.5	1.7	0.52	0.68	1.3
20	11	12	36	26	33	18	20	5.0	1.5	0.52	0.59	2.8
21	10	11	36	33	45	17	19	5.6	1.5	0.47	0.50	6.8
22	9.8	11	61	28	42	17	21	4.1	1.5	0.61	0.41	5.5
23	10	11	51	26	36	17	23	3.6	1.4	0.45	0.32	13
24	13	10	40	24	35	16	24	3.5	1.3	0.43	0.29	12
25	19	9.6	34	21	32	16	30	4.1	1.3	0.36	0.19	8.6
26	16	9.2	28	20	29	16	29	4.3	1.3	0.37	0.40	17
27	14	8.1	26	19	27	16	26	4.2	1.3	1.7	1.0	19
28	13	7.7	24	18	26	18	24	3.8	1.3	3.4	1.5	16
29	12	6.9	25	17	24	21	23	3.5	1.2	2.9	1.5	17
30	11	6.1	27	17	---	20	21	3.4	1.2	2.5	1.3	18
31	10	---	24	16	---	19	---	3.0	---	2.2	1.2	---
TOTAL	360.0	303.6	632.9	624	1048	615	734	289.8	58.9	32.67	31.74	166.3
MEAN	11.6	10.1	20.4	20.1	36.1	19.8	24.5	9.35	1.96	1.05	1.02	5.54
MAX	19	20	61	33	74	24	36	20	3.3	3.4	1.9	19
MIN	7.2	5.8	6.4	15	16	16	18	3.0	1.2	0.36	0.19	1.1
AC-FT	714	602	1260	1240	2080	1220	1460	575	117	65	63	330
CFSM	4.65	4.05	8.17	8.05	14.5	7.94	9.79	3.74	0.79	0.42	0.41	2.22
IN.	5.36	4.52	9.42	9.29	15.59	9.15	10.92	4.31	0.88	0.49	0.47	2.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	29.9	24.3	23.0	19.2	17.2	15.6	15.1	12.9	6.43	4.11	8.49	17.5	
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	2001	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	5.26	1.96	0.66	1.02	5.54	
(WY)	2004	2004	1996	1993	1999	1999	2002	2003	2004	1993	2004	2004	

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1992 - 2004

ANNUAL TOTAL	3750.6	4896.91	
ANNUAL MEAN	10.3	13.4	16.1
HIGHEST ANNUAL MEAN			23.3
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	61	Dec 22	e118
LOWEST DAILY MEAN	a2.1	Aug 11	0.19
ANNUAL SEVEN-DAY MINIMUM	2.3	Aug 7	0.39
MAXIMUM PEAK FLOW			79
MAXIMUM PEAK STAGE			11.88
INSTANTANEOUS LOW FLOW			c0.10
ANNUAL RUNOFF (AC-FT)	7440	9710	11700
ANNUAL RUNOFF (CFSM)	4.11	5.35	6.46
ANNUAL RUNOFF (INCHES)	55.81	72.87	87.76
10 PERCENT EXCEEDS	19	28	34
50 PERCENT EXCEEDS	8.3	11	12
90 PERCENT EXCEEDS	3.0	1.1	3.1

a Aug. 11 and Aug. 13

b May have been exceeded during period of gage malfunction from Dec. 25 to 28, 1999

c Aug. 25 and 26

d 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