

SOUTHEAST ALASKA

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.

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.--Records fair, except for estimated daily discharges and 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 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	19	36	e.00	e.00	e.00	e.00	e.00	e500	263	137	403
2	110	26	74	e.00	e.00	e.00	e.00	e.00	e400	257	136	529
3	86	125	68	e.00	e.00	e.00	e.00	e.00	e320	251	125	554
4	65	142	51	15	e.00	e.00	e.00	e.00	e300	298	112	561
5	56	116	45	23	e.00	e.00	e.00	e.00	e320	327	99	486
6	66	91	61	32	e.00	e.00	e.00	e.00	e330	370	90	455
7	112	73	48	27	e.00	e.00	e.00	e.00	e340	461	83	362
8	156	54	32	26	e.00	e.00	e.00	e.00	e350	470	72	285
9	151	37	20	22	e.00	e.00	e.00	e.00	e370	487	66	226
10	124	23	12	17	e.00	e.00	e.00	e.00	e340	457	61	175
11	118	15	7.7	12	e.00	e.00	e.00	e.15	e280	383	59	131
12	138	11	4.6	7.6	e.00	e.00	e.00	e.22	e260	321	55	106
13	211	8.2	2.4	5.2	e.00	e.00	e.00	e.32	305	319	54	87
14	205	5.4	.83	3.4	e.00	e.00	e.00	e.50	334	326	56	68
15	229	3.4	e.00	2.1	e.00	e.00	e.00	e.80	334	302	59	53
16	228	1.9	e.00	1.4	e.00	e.00	e.00	e1.5	322	271	56	42
17	202	1.5	e.00	1.1	e.00	e.00	e.00	e2.5	316	268	50	39
18	176	.89	e.00	1.1	e.00	e.00	e.00	e4.0	315	266	41	72
19	174	.49	e.00	.90	e.00	e.00	e.00	e7.0	339	261	32	111
20	160	.62	e.00	.52	e.00	e.00	e.00	e11	467	278	35	141
21	143	3.3	e.00	.24	e.00	e.00	e.00	e20	551	308	65	182
22	192	76	e.00	e.00	e.00	e.00	e.00	e16	494	327	83	451
23	237	180	e.00	e.00	e.00	e.00	e.00	e28	436	320	97	628
24	212	185	e.00	e.00	e.00	e.00	e.00	e44	391	288	128	496
25	170	166	e.00	e.00	e.00	e.00	e.00	e75	361	253	185	460
26	130	137	e.00	e.00	e.00	e.00	e.00	e120	322	222	295	386
27	95	107	e.00	e.00	e.00	e.00	e.00	e155	297	199	470	333
28	69	78	e.00	e.00	e.00	e.00	e.00	e195	312	180	424	283
29	48	53	e.00	e.00	---	e.00	e.00	e250	308	162	323	297
30	32	35	e.00	e.00	---	e.00	e.00	e225	277	154	264	551
31	24	---	e.00	e.00	---	e.00	---	e440	---	142	296	---
TOTAL	4257	1774.70	462.53	197.56	0.00	0.00	0.00	1595.99	10591	9191	4108	8953
MEAN	137	59.2	14.9	6.37	.000	.000	.000	51.5	353	296	133	298
MAX	237	185	74	32	.00	.00	.00	440	551	487	470	628
MIN	24	.49	.00	.00	.00	.00	.00	.00	260	142	32	39
AC-FT	8440	3520	917	392	.00	.00	.00	3170	21010	18230	8150	17760

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

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		
MEAN	165	50.5	9.91	1.19	.030	.000	3.53	76.0	265	187	171	
MAX	264	108	38.4	6.37	.28	.000	24.8	247	367	305	298	
(WY)	2000	1993	1998	2001	1994	1993	1993	1993	1999	2000	2001	
MIN	102	5.10	.000	.000	.000	.000	.000	1.58	176	55.2	28.3	41.5
(WY)	1995	1997	1995	1993	1993	1993	1994	2000	1994	1998	1994	1993

Record for 1980 and 1981 water years, prior to diversion of 1984, not included. See PERIOD OF RECORD
e Estimated

SOUTHEAST ALASKA

15019990 TYEE LAKE OUTLET NEAR WRANGELL--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001#	
ANNUAL TOTAL	37093.76		41130.78			
ANNUAL MEAN	101		113		86.2	
HIGHEST ANNUAL MEAN					113	
LOWEST ANNUAL MEAN					56.5	
HIGHEST DAILY MEAN	566		628		710	
LOWEST DAILY MEAN	a .00	Aug 22 Jan 11	b .00	Sep 23 Dec 15	Oct 27 1993 Dec 30 1992	
ANNUAL SEVEN-DAY MINIMUM	.00		.00		.00	
MAXIMUM PEAK FLOW			670		d 975	
MAXIMUM PEAK STAGE			25.52		28.62	
INSTANTANEOUS LOW FLOW					c	
ANNUAL RUNOFF (AC-FT)	73580		81580		62480	
10 PERCENT EXCEEDS	301		334		278	
50 PERCENT EXCEEDS	15		32		26	
90 PERCENT EXCEEDS	.00		.00		.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	
LOWEST DAILY MEAN	f 1.4	
ANNUAL SEVEN-DAY MINIMUM	2.0	
INSTANTANEOUS PEAK FLOW	1910	
INSTANTANEOUS PEAK STAGE	12.72	
ANNUAL RUNOFF (AC-FT)	130000	
10 PERCENT EXCEEDS	457	
50 PERCENT EXCEEDS	86	
90 PERCENT EXCEEDS	11	

Record for 1980 & 1981 water years, prior to diversion of 1984, not included. See PERIOD OF RECORD
a Jan. 11 to May 27, 2000, and Dec. 15 - 31, 2000
b Dec. 15 to Jan. 3, and Jan. 22 to May 10
c No flow many days during winter months most years
d From rating curve extended above 400 ft³/s
f Apr. 2-3, 1980

SOUTHEAST ALASKA

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 current year.

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 YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug 27	1145	4480	9.34	Sept 02	0400	*4640	*9.46

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	377	619	346	638	170	146	432	2030	1300	1230	2200
2	552	610	1320	695	555	131	125	497	1480	1270	1220	3520
3	478	2900	623	2720	571	117	112	617	1360	1310	1090	3090
4	410	1090	426	1040	385	119	122	589	1330	1920	1140	2960
5	649	592	838	883	269	112	138	493	1390	2150	1090	e1800
6	1290	532	1140	911	214	104	129	387	1400	2100	1100	e1750
7	1370	514	521	567	190	139	121	382	1420	2290	1120	e1540
8	1420	419	363	587	169	136	119	454	1440	1920	937	e1430
9	949	338	271	501	152	130	139	461	1590	1900	1050	e1380
10	570	290	219	376	137	152	143	362	1510	1620	1050	e1320
11	1310	260	193	284	e135	352	140	425	1210	1310	1040	e1280
12	1480	269	173	227	e130	356	158	484	1240	1180	994	e1240
13	2110	263	156	208	e127	267	176	560	1580	1550	1150	e1200
14	1070	232	e150	183	131	176	160	500	1490	1840	1210	e1170
15	1420	213	e145	176	e128	156	e157	545	1400	1490	1120	e1140
16	1220	206	e140	370	e120	160	e140	562	1300	1340	1010	e1100
17	753	419	e160	431	e116	159	e180	574	1340	1510	1000	e1100
18	752	326	e148	431	e111	193	e250	544	1360	1460	826	e1200
19	1040	326	e136	425	e107	e170	e340	481	1610	1420	864	e1280
20	809	402	123	333	e102	e178	e400	480	2250	1810	1180	e1180
21	783	594	e125	301	e97	e140	e480	537	2260	1960	1550	e1700
22	2160	2040	e122	265	e88	e115	e600	1450	1580	1860	1370	e3200
23	1850	1780	e121	242	e80	e95	e710	1410	1480	1630	1350	e3900
24	956	1040	e120	331	e90	e85	e690	877	1510	1330	1540	e3200
25	555	866	150	313	e85	e90	584	690	1550	1170	1910	e2900
26	402	662	202	255	83	e110	519	729	1350	1100	2340	e2600
27	321	551	171	308	144	e150	662	884	1490	1090	3450	e2300
28	266	442	145	404	178	e190	628	1130	1870	1030	1680	e2200
29	234	326	140	269	---	170	493	1570	1470	1030	1140	e2700
30	219	283	293	215	---	157	469	1330	1210	1080	1180	e3600
31	346	---	515	310	---	151	---	2080	---	1050	1830	---
TOTAL	28744	19162	9968	14907	5332	4930	9230	22516	45500	47020	40761	61180
MEAN	927	639	322	481	190	159	308	726	1517	1517	1315	2039
MAX	2160	2900	1320	2720	638	356	710	2080	2260	2290	3450	3900
MIN	219	206	120	176	80	85	112	362	1210	1030	826	1100
MED	809	419	171	333	130	151	168	545	1480	1460	1140	1720
AC-FT	57010	38010	19770	29570	10580	9780	18310	44660	90250	93260	80850	121400
CFSM	13.8	9.48	4.77	7.13	2.83	2.36	4.56	10.8	22.5	22.5	19.5	30.3
IN.	15.86	10.58	5.50	8.23	2.94	2.72	5.09	12.43	25.11	25.95	22.50	33.77

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

MEAN	1086	497	340	252	239	204	363	914	1383	1343	1131	1136
MAX	2152	1252	1065	819	655	510	733	1357	1896	1878	1656	2039
(WY)	1962	1970	1990	1981	1954	1986	1994	1956	1996	1972	1956	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

SOUTHEAST ALASKA

15022000 HARDING RIVER NEAR WRANGELL--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001#	
ANNUAL TOTAL	289312		309250			
ANNUAL MEAN	790		847		745	
HIGHEST ANNUAL MEAN					921	
LOWEST ANNUAL MEAN					558	
HIGHEST DAILY MEAN	5640	Aug 21	3900	Sep 23	11400	Oct 14 1961
LOWEST DAILY MEAN	61	Mar 12	80	Feb 23	a35	Jan 23 1969
ANNUAL SEVEN-DAY MINIMUM	67	Mar 7	89	Feb 20	35	Jan 23 1969
MAXIMUM PEAK FLOW			4640	Sep 2	b15300	Oct 26 1993
MAXIMUM PEAK STAGE			9.46	Sep 2	c16.22	Oct 14 1961
INSTANTANEOUS LOW FLOW			d		35	Jan 23 1969
ANNUAL RUNOFF (AC-FT)	573900		613400		539400	
ANNUAL RUNOFF (CFSM)	11.7		12.6		11.0	
ANNUAL RUNOFF (INCHES)	159.68		170.68		150.10	
10 PERCENT EXCEEDS	1690		1830		1600	
50 PERCENT EXCEEDS	526		574		544	
90 PERCENT EXCEEDS	107		131		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

SOUTHEAST ALASKA

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 good, except for estimated daily discharges that are tidally affected, Oct. 26 to 30. Nov. 10 to 16, Nov. 24 to 29, Dec. 8 to 13, Apr. 4 to 13, Apr. 20 to May 1 and May 4 to 12, which are fair; and estimated daily discharges during periods of ice effect, Dec. 14 to April 1 which are poor. GOES satellite telemetry at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80400	28900	18400	e13000	e13000	e10600	e9200	e21400	102000	145000	107000	112000
2	66700	28700	23100	e17000	e12500	e9800	e8400	21800	105000	149000	107000	124000
3	58700	42300	22500	e24000	e11800	e9300	e8400	24300	103000	150000	108000	117000
4	52400	44600	20200	e30000	e11000	e8800	e8400	e25200	100000	154000	112000	108000
5	49000	35400	21700	e25000	e10000	e8200	e8500	e23600	103000	155000	112000	88900
6	57500	30600	31100	e25000	e9500	e7800	e8600	e21800	106000	150000	112000	91600
7	71000	28600	27000	e26000	e9300	e8200	e8700	e21400	106000	145000	113000	82000
8	82200	27100	e22500	e24000	e9000	e8500	e9000	e22400	109000	137000	112000	75100
9	70200	25600	e19900	e21000	e8700	e9000	e9400	e22900	112000	130000	111000	70000
10	59700	e23600	e19900	e17000	e8600	e10000	e9500	e21300	120000	129000	111000	61700
11	59500	e22400	e19200	e13000	e8500	e12000	e9440	e21200	122000	122000	108000	56000
12	66000	e22200	e18000	e12000	e9000	e13000	e9530	e22200	121000	113000	107000	56300
13	80400	e22100	e17800	e10600	e9300	e12000	e9660	24300	137000	109000	109000	61300
14	77900	e21900	e15200	e11000	e9700	e11400	9840	25700	148000	112000	114000	61900
15	71200	e20900	e14600	e11500	e9000	e10700	9870	27400	148000	117000	116000	62100
16	68900	e19200	e13000	e11800	e8500	e10200	10000	29000	141000	130000	111000	63300
17	58000	19600	e12000	e12400	e8200	e9600	10600	30300	139000	145000	106000	67000
18	52000	19200	e11800	e13000	e8000	e9200	11600	30000	146000	149000	101000	77300
19	50400	17900	e11700	e15000	e7800	e9000	13100	28900	151000	151000	96600	79200
20	47400	17200	e11700	e14500	e7800	e8700	e13900	27900	159000	168000	94900	70200
21	45100	e17400	e11000	e14000	e7700	e8300	e14900	29400	179000	190000	98200	64000
22	51100	25500	e10400	e13500	e7600	e8000	e15700	36400	180000	201000	103000	100000
23	60000	40500	e10000	e12800	e7500	e7700	e16700	46200	168000	198000	104000	151000
24	53000	e39600	e9800	e13000	e7500	e7500	e20600	47400	160000	176000	99700	125000
25	44400	e34600	e9700	e11500	e7800	e7500	e21400	46100	155000	152000	96000	98900
26	e38700	e30200	e9600	e10500	e8300	e7600	e20500	46000	137000	138000	108000	86300
27	e35000	e26800	e9400	e11000	e9000	e8000	e21200	47100	133000	128000	141000	73100
28	e32600	e23500	e9300	e11500	e10500	e9000	e21900	54200	139000	121000	150000	66300
29	e31400	e20600	e9300	e11000	---	e10000	e21800	67600	143000	118000	120000	63200
30	e30100	18300	e10000	e10500	---	e9700	e21700	79000	142000	119000	101000	85600
31	30400	---	e11000	e10200	---	e9400	---	88400	---	111000	108000	---
TOTAL	1731300	795000	480800	476300	255100	288700	392040	1080800	4014000	4412000	3397400	2498300
MEAN	55850	26500	15510	15360	9111	9313	13070	34860	133800	142300	109600	83280
MAX	82200	44600	31100	30000	13000	13000	21900	88400	180000	201000	150000	151000
MIN	30100	17200	9300	10200	7500	7500	8400	21200	100000	109000	94900	56000
MED	57500	24600	13000	13000	8850	9000	9940	27900	138000	145000	108000	76200
AC-FT	3434000	1577000	953700	944700	506000	572600	777600	2144000	7962000	8751000	6739000	4955000
CFSM	2.80	1.33	.78	.77	.46	.47	.66	1.75	6.72	7.14	5.50	4.18
IN.	3.23	1.48	.90	.89	.48	.54	.73	2.02	7.50	8.24	6.34	4.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001, 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
MEAN	58230	25080	14070	11650	9372	10300	16850	67040	135100	134800	107500	80230														
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	9070	32260	103400	109100	76770	50760														
(WY)	1986	1986	1997	1978	1999	1978	1982	1982	1978	1983	1995	1986														

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1976 - 2001#
ANNUAL TOTAL	20598780	19821740	
ANNUAL MEAN	56280	54310	56030
HIGHEST ANNUAL MEAN			72870
LOWEST ANNUAL MEAN			42100
HIGHEST DAILY MEAN	204000	Sep 18	201000
LOWEST DAILY MEAN	a6400	Mar 14	b7500
ANNUAL SEVEN-DAY MINIMUM	6530	Mar 11	7670
MAXIMUM PEAK FLOW			204000
MAXIMUM PEAK STAGE			24.48
ANNUAL RUNOFF (AC-FT)	40860000	39320000	40590000
ANNUAL RUNOFF (CFSM)	2.83	2.73	2.81
ANNUAL RUNOFF (INCHES)	38.47	37.02	38.21
10 PERCENT EXCEEDS	134000	137000	137000
50 PERCENT EXCEEDS	30500	27400	32500
90 PERCENT EXCEEDS	9000	9000	7340

See Period of Record; partial years used in monthly statistics
a Mar. 14 to 15
b Feb. 23 to 24 and Mar. 24 to 25
e Estimated

SOUTHEAST ALASKA

15039900 DOROTHY LAKE OUTLET NEAR JUNEAU

LOCATION.--Lat 58°14'56", long 133°58'54", in NE¹/₄ NW¹/₄ sec. 9, T. 42 S., R. 70 E. (Taku River A-6 quad), Hydrologic Unit 19010301, City and Borough of Juneau, in Tongass National Forest, on right bank 3 mi upstream from mouth at Taku Inlet, and 16.4 mi east of Juneau.

DRAINAGE AREA.--11.0 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 2,410.78 ft above sea level.

REMARKS.--Records fair, except for discharges under 50 ft³/s and estimated 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.07	1900	*493	*11.45	Aug 27	2000	455	11.33
July 8	0030	458	11.34				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	183	42	45	e19	e30	e15	e13	e17	127	213	237	279
2	146	41	45	e21	e30	e14	e12	e17	139	214	231	310
3	122	79	42	e25	e29	e13	e11	e20	154	207	227	290
4	100	83	39	e44	e27	e12	e13	e21	156	227	232	265
5	126	74	52	e50	e25	e12	e13	e22	151	270	266	282
6	297	67	62	e44	e23	e13	e12	e20	146	327	256	331
7	407	62	57	e40	e20	e14	e12	e20	148	417	233	304
8	425	56	50	e50	e18	e14	e11	e22	149	438	214	294
9	333	50	45	e46	e17	e14	e11	e22	152	403	201	245
10	260	46	40	e42	e16	e17	e11	e20	159	375	187	195
11	260	44	36	e38	e14	e21	e11	e20	154	323	175	160
12	312	48	33	e29	e13	e20	e11	e19	154	282	170	162
13	395	45	e30	e28	e17	e19	e11	e21	163	283	171	295
14	314	41	e28	e26	e20	e17	e11	e22	169	286	178	364
15	268	38	e26	e26	e19	e15	e10	e23	170	270	187	325
16	218	37	e23	e26	e17	e16	e10	e25	173	255	187	326
17	175	39	e22	e25	e15	e16	e9.8	e27	176	238	186	316
18	142	36	23	e24	e14	e15	e10	e29	179	227	185	306
19	121	34	23	e24	e13	e14	e10	e29	187	231	185	267
20	104	33	21	e22	e12	e14	e10	e30	211	259	185	250
21	92	48	20	e21	e12	e13	e10	e33	257	281	186	221
22	91	81	19	e21	e12	e12	e11	e42	256	328	180	248
23	98	94	18	e24	e12	e11	e11	e52	249	382	172	242
24	93	87	17	e24	e11	e11	e12	e54	242	377	179	224
25	82	79	17	e21	e11	e11	e13	e51	223	359	185	219
26	71	72	18	e19	e12	e11	e13	e49	200	338	211	191
27	61	65	17	e23	e15	e12	e16	e52	196	305	374	165
28	54	57	e15	e25	e16	e12	e18	61	220	266	419	145
29	49	47	e15	e22	---	e12	e18	73	223	249	350	127
30	44	45	e17	e20	---	e12	e18	83	214	256	313	184
31	44	---	e18	e24	---	e12	---	104	---	251	295	---
TOTAL	5487	1670	933	893	490	434	362.8	1100	5497	9137	6957	7532
MEAN	177	55.7	30.1	28.8	17.5	14.0	12.1	35.5	183	295	224	251
MAX	425	94	62	50	30	21	18	104	257	438	419	364
MIN	44	33	15	19	11	11	9.8	17	127	207	170	127
AC-FT	10880	3310	1850	1770	972	861	720	2180	10900	18120	13800	14940
CFSM	16.1	5.06	2.74	2.62	1.59	1.27	1.10	3.23	16.7	26.8	20.4	22.8
IN.	18.56	5.65	3.16	3.02	1.66	1.47	1.23	3.72	18.59	30.90	23.53	25.47

e Estimated

SOUTHEAST ALASKA

15039900 DOROTHY LAKE OUTLET NEAR JUNEAU--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)#												
MEAN	163	49.7	36.2	21.7	20.6	17.8	19.8	87.4	214	270	253	264
MAX	243	88.7	80.8	38.1	40.8	59.2	36.9	140	267	364	342	387
(WY)	1988	1994	2000	2000	1993	1992	1994	1993	1992	2000	1990	1991
MIN	90.9	21.2	16.9	9.25	11.3	4.65	10.6	35.5	181	210	194	177
(WY)	1993	1996	1995	1997	1998	1989	1989	2001	1996	1993	1995	1992

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL TOTAL	45642.6		40492.8			
ANNUAL MEAN	125		111		119	
HIGHEST ANNUAL MEAN					141	
LOWEST ANNUAL MEAN					97.6	
HIGHEST DAILY MEAN	816	Jul 24	438	Jul 8	915	Sep 11 1995
LOWEST DAILY MEAN	a8.2	Mar 14	9.8	Apr 17	4.2	Mar 13 1989
ANNUAL SEVEN-DAY MINIMUM	8.6	Mar 10	10	Apr 15	4.2	Mar 10 1989
MAXIMUM PEAK FLOW			493	Oct 7	b990	Sep 10 1995
MAXIMUM PEAK STAGE			11.45	Oct 7	13.05	Sep 10 1995
INSTANTANEOUS LOW FLOW			c		c	
ANNUAL RUNOFF (AC-FT)	90530		80320		85990	
ANNUAL RUNOFF (CFSM)	11.3		10.1		10.8	
ANNUAL RUNOFF (INCHES)	154.35		136.94		146.60	
10 PERCENT EXCEEDS	313		284		285	
50 PERCENT EXCEEDS	56		47		56	
90 PERCENT EXCEEDS	13		12		12	

a Mar. 14 to Mar. 15
 b From rating curve extended above 350 ft³/s
 c Not determined; see lowest daily mean

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 22	0845	55,700	39.96	Aug 10	1415	*a76600	*41.85

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14000	6990	e3400	e2300	e2550	e2000	1910	4910	29300	35600	25500	20500
2	12100	6610	e3600	e2600	e2400	e1950	1860	5170	33200	37300	26300	19100
3	11600	7260	e3700	e2800	e2300	e1800	1830	5720	34000	35000	29500	17600
4	12000	7380	e3200	e3200	e2150	e1700	1930	6040	32400	34100	30900	16200
5	14300	6700	e3000	e3100	e2000	e1600	2030	5770	31100	34600	30800	16300
6	28100	6130	e4800	e3000	e1900	e1500	2020	5310	32500	33100	29800	17800
7	42600	6020	5420	e3000	e1850	e1550	2030	5140	32100	31000	30900	16900
8	31200	5900	4680	e3200	e1800	e1650	2040	5360	32600	29600	36200	19600
9	17800	5560	e4100	e2900	e1800	e1700	2100	5460	33600	27900	50100	16500
10	14600	5040	e3800	e2700	e1800	e2000	2140	5460	37400	27200	67600	13200
11	14800	4960	e3700	e2400	e1700	e2100	2170	5400	39400	26000	30500	12100
12	17800	5790	e3400	e2300	e1700	e2300	2210	5750	42700	24800	25100	11600
13	21700	5890	e3100	e2200	e1800	e2250	2320	6850	45300	24000	25400	16600
14	19700	5360	e2900	e2180	e1900	e2200	2360	7800	43600	24600	26300	24600
15	17300	4840	e2600	e2100	e1700	e2100	2410	8250	38800	25800	27400	25800
16	15300	4630	e2400	e2100	e1650	e2100	2510	8910	36700	27600	25800	22500
17	13400	4550	e2300	e2150	e1600	e2000	2670	9200	38500	28900	24300	22100
18	12000	4700	e2250	e2000	e1550	e1900	2840	9340	39600	30800	22900	22000
19	11200	4400	e2250	e2000	e1550	e1800	3180	9130	39900	34600	22500	19200
20	10700	4230	e2250	e2000	e1500	e1700	3420	9280	39600	38600	22000	16600
21	10300	4530	e2100	e1900	e1500	e1650	3660	9650	45000	41100	21500	14700
22	10300	6010	e2000	e1900	e1480	e1600	3880	10300	50500	43400	21600	15900
23	11000	7220	e1950	e2000	e1480	e1500	4060	11500	38900	43100	21300	17500
24	10900	6870	e1900	e2000	e1500	e1500	4280	11700	37300	39300	21000	15900
25	10100	6100	e1900	e1900	e1550	e1450	4530	11300	33600	35900	19300	14300
26	9190	5620	e1850	e1850	e1600	e1500	4580	11200	29500	32800	19000	13100
27	8500	5040	e1800	e2000	e1800	e1550	4580	12600	29000	30900	24000	11800
28	7990	4590	e1800	e2200	e2100	e1600	4910	17300	32500	29800	27700	10900
29	7530	e4200	e1800	e2100	---	e1700	4960	21200	35600	29300	23700	10200
30	7200	e3600	e2000	e2000	---	e1800	4860	23400	36200	28500	21000	11000
31	7070	---	e2100	e2200	---	e1900	---	24800	---	27000	21000	---
TOTAL	452280	166720	88050	72280	50210	55650	90280	299200	1100400	992200	850900	502100
MEAN	14590	5557	2840	2332	1793	1795	3009	9652	36680	32010	27450	16740
MAX	42600	7380	5420	3200	2550	2300	4960	24800	50500	43400	67600	25800
MIN	7070	3600	1800	1850	1480	1450	1830	4910	29000	24000	19000	10200
AC-FT	897100	330700	174600	143400	99590	110400	179100	593500	2183000	1968000	1688000	995900
CFSM	2.21	.84	.43	.35	.27	.27	.46	1.46	5.56	4.85	4.16	2.54
IN.	2.55	.94	.50	.41	.28	.31	.51	1.69	6.20	5.59	4.80	2.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)#

MEAN	11650	4700	3415	2215	1946	2651	4446	20150	34620	32160	26020	19580
MAX	17250	8633	6613	4223	3682	10500	6815	33800	49280	41080	32450	26550
(WY)	1992	1994	2000	2000	1992	1992	1992	1993	1992	1992	1989	1994
MIN	6265	2488	1256	1125	1041	1359	2846	9652	23170	25040	18610	11180
(WY)	1997	1997	1997	1988	1999	1991	2000	2001	1995	1996	1995	1992

See Period of Record; partial years used in monthly statistics
a Result of Tulsequah River glacier dam breakout
e Estimated

SOUTHEAST ALASKA

15041200 TAKU RIVER NEAR JUNEAU--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1988 - 2001	
ANNUAL TOTAL	5027760		4720270			
ANNUAL MEAN	13740		12930		13690	
HIGHEST ANNUAL MEAN					16820	1992
LOWEST ANNUAL MEAN					10800	1996
HIGHEST DAILY MEAN	93100	Jul 26	67600	Aug 10	93100	Jul 26 2000
LOWEST DAILY MEAN	a1680	Mar 13	1450	Mar 25	710	Feb 12 1988
ANNUAL SEVEN-DAY MINIMUM	1710	Mar 11	1510	Feb 18	721	Feb 8 1988
MAXIMUM PEAK FLOW			b76600	Aug 10	b110000	Aug 17 1989
MAXIMUM PEAK STAGE			41.85	Aug 10	44.13	Aug 17 1989
INSTANTANEOUS LOW FLOW			c		710	Feb 12 1989
ANNUAL RUNOFF (AC-FT)	9973000		9363000		9919000	
ANNUAL RUNOFF (CFSM)	2.08		1.96		2.07	
ANNUAL RUNOFF (INCHES)	28.34		26.61		28.19	
10 PERCENT EXCEEDS	33300		33400		33500	
50 PERCENT EXCEEDS	7030		6020		7320	
90 PERCENT EXCEEDS	2180		1800		1650	

See Period of Record; partial years used in monthly statistics

a Result of Tulsequah River glacier dam breakout

b From Mar. 13 to Mar. 14

c Not determined; see lowest daily mean

SOUTHEAST ALASKA

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.- No record from March 4-10, 14 to April 11 when the probe was out of the water. The recorder malfunctioned on October 3-4, 10-15, December 13-14, 16, 21-22, February 10, July 30, and September 14-25. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on September 20. The September 20 temperature cross section found no variation between mean stream temperature and sensor temperature. The outburst peak of the lake dammed by Tulsequah Glacier occurred on August 10. As a result, the temperature cross section showed a variation of 1.5°C during sampling on August 10 but no variation was noted on August 11.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 12.5°C, July 14, 1999 and July 20 and 21, 2001; minimum, 0.0°C, many days during most winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 12.5°C, July 20 and 21, ; minimum, 0.0°C, many days during winter.

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

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)					
SEP 2001													
20...	1333	75.0	117	7.7	7.0	757	11.2	93					
20...	1335	225	117	7.8	7.0	757	11.2	93					
20...	1337	375	117	7.8	7.0	757	11.1	92					
20...	1339	525	116	7.8	7.0	757	11.1	92					
20...	1340	675	116	7.8	7.0	757	11.1	92					
DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	SAM- PLER TYPE (CODE) (84164)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MMOF HG) (00025)
OCT													
11...	1145	9	9	166	33.25	13900	20	3053	128	7.7	6.5	4.5	757
APR													
11...	1500	9	9	274	28.76	2130	20	8010	222	8.7	8.0	3.5	752
JUN													
07...	1400	9	9	753	36.33	33900	20	3053	137	7.8	--	9.0	764
28...	1343	9	9	--	36.35	33900	20	3053	122	7.7	--	8.5	765
JUL													
06...	1232	9	9	750	36.45	31100	20	3053	118	6.9	11.0	8.0	752
AUG													
10...	1610	9	9	776	41.82	73900	20	3053	90	8.0	20.5	7.0	764
11...	1125	9	9	717	35.99	28800	20	3053	100	7.9	18.5	8.0	764
SEP													
20...	1325	9	9	--	33.46	16300	20	3053	117	7.8	--	7.0	757

SOUTHEAST ALASKA

15041200 TAKU RIVER NEAR JUNEAU--Continued

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

DATE	OXYGEN DIS- OLVED (MG/L) (00300)	OXY- GEN, DIS- OLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CAL- CIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM DIS- SOLVED (MG/L AS NA) (00930)	ANC WATER UNFL- TRD FET FIELD MG/L AS CACO3 (00410)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY WAT DIS FIX END FIELD CACO3 (MG/L) (39036)	SUL- FATE (MG/L AS SO4) (00946)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT 11...	--	--	68	20.6	4.03	1.7	58	<.70	68	56	58	12	.1
APR 11...	12.2	93	130	36.4	8.69	5.0	102	1.00	124	102	100	20	.1
JUN 07...	11.4	98	69	20.6	4.16	1.5	60	<.70	71	58	60	10	M
JUN 28...	10.6	90	62	--	--	--	51	--	55	51	51	--	--
JUL 06...	11.1	95	58	17.8	3.25	1.5	46	<.70	55	45	46	10	<.02
AUG 10...	10.6	87	47	15.0	2.42	.7	33	<.70	40	32	33	12	<.02
AUG 11...	--	--	54	16.9	2.87	1.1	45	1.20	55	45	45	9.8	<.02
SEP 20...	11.1	92	59	18.3	3.28	1.4	50	<.70	60	49	50	10	<.02

DATE	NITRO- GEN, AMMO- NIA TOTAL (MG/L AS N) (00610)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	ALUMI- NUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ALUMI- NUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BAR- IUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BAR- IUM, DIS- SOLVED (UG/L AS BA) (01005)	CAD- MIUM WATER UNFL- TRD TOTAL (UG/L AS CD) (01027)	CAD- MIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COP- PER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)
OCT 11...	.03	.047	1020	25	1	.6	43.7	27.7	.15	<.10	2	<1.0	3.7
APR 11...	<.02	.014	169	<20	M	.4	45.4	43.7	<.10	<.10	1	<1.0	1.6
JUN 07...	E.03	.180	2670	38	2	.5	69.7	24.5	.11	<.10	8	1.1	8.8
JUN 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 06...	E.01	.176	2530	34	2	.6	64.6	23.1	<.10	<.10	5	<1.0	7.0
AUG 10...	.09	.670	7630	34	7	.5	174	23.6	.31	<.10	16	1.2	25.9
AUG 11...	.03	.259	E3120	E29	3	.5	87.9	25.3	.13	<.10	7	1.4	10.3
SEP 20...	<.02	.098	E1880	28	2	.6	57.1	25.2	<.10	<.10	4	2.1	4.4

DATE	COP- PER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SIL- VER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SIL- VER, DIS- SOLVED (UG/L AS AG) (01075)
OCT 11...	<1.0	1420	20	2	<.10	46	8.8	4	.83	<1.0	<1.0	<.10	<.1
APR 11...	<1.0	570	20	M	<.10	50	42.2	2	1.29	<1.0	<1.0	<.10	<.1
JUN 07...	1.4	4290	20	2	<.10	129	6.5	14	1.72	<1.0	<1.0	<.10	<.1
JUN 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 06...	<1.0	3770	<10	3	<.10	111	5.2	8	.84	<1.0	<1.0	<.10	<.1
AUG 10...	<1.0	11800	<10	8	<.10	348	8.3	23	.79	<1.0	<1.0	.11	<.1
AUG 11...	<1.0	4850	<10	E3	<.10	148	6.9	10	.82	<1.0	<1.0	<.10	<.1
SEP 20...	<1.0	2630	<10	E2	<.10	74	6.0	4	.87	<1.0	<1.0	<.10	<.1

SOUTHEAST ALASKA

15041200 TAKU RIVER NEAR JUNEAU--Continued

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

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
OCT 11...	8	<4	1.5	1.2
APR 11...	8	6	1.4	.89
JUN 07...	17	<4	--	--
28...	--	--	--	--
JUL 06...	22	4	1.1	1.1
AUG 10...	52	5	<.50	<.50
11...	19	<4	<.50	<.50
SEP 20...	14	<4	.62	.53

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	4.5	3.0	3.5	2.5	2.0	2.0	1.5	.5	1.0	.5	.0	.0
2	3.0	2.0	2.5	2.0	1.5	1.5	1.5	.5	1.0	.5	.0	.0
3	---	1.5	---	2.0	1.5	1.5	---	---	---	.5	.0	.0
4	2.5	---	---	2.0	1.5	2.0	1.0	.5	1.0	.5	.0	.0
5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	.5	1.0	.5	.0	.5
6	2.0	1.5	2.0	1.5	1.0	1.5	1.0	.0	.5	.5	.0	.5
7	3.0	2.0	2.5	1.5	1.0	1.5	.5	.0	.5	.5	.0	.5
8	4.0	2.5	3.5	1.5	1.0	1.5	.5	.5	.5	.5	.5	.5
9	4.5	4.0	4.0	1.0	.0	.5	.5	.5	.5	.5	.0	.5
10	---	---	---	1.0	.0	.5	1.0	.5	.5	.5	.5	.5
11	---	---	---	2.0	1.0	1.5	1.0	.5	.5	.5	.5	.5
12	---	---	---	2.0	1.5	2.0	1.0	.5	.5	.5	.0	.5
13	---	---	---	2.0	1.5	2.0	---	---	---	.5	.5	.5
14	---	---	---	2.0	1.5	2.0	---	---	---	.5	.5	.5
15	---	---	---	1.5	1.0	1.5	.5	.0	.5	.5	.5	.5
16	4.5	4.0	4.5	1.5	.0	1.0	---	---	---	.5	.5	.5
17	4.5	4.0	4.0	1.0	.0	.5	.0	.0	.0	.5	.5	.5
18	4.0	3.5	3.5	1.0	.5	.5	.0	.0	.0	1.0	.5	.5
19	4.5	3.5	4.0	1.0	1.0	1.0	.5	.0	.0	1.0	.5	.5
20	4.5	4.0	4.0	1.0	1.0	1.0	.0	.0	.0	.5	.0	.5
21	4.5	4.0	4.0	1.5	.5	1.0	---	---	---	.5	.0	.5
22	4.0	3.5	4.0	1.5	1.0	1.5	---	---	---	1.0	.5	.5
23	4.0	3.5	4.0	1.5	1.5	1.5	.0	.0	.0	.5	.5	.5
24	4.0	4.0	4.0	1.5	1.5	1.5	.0	.0	.0	1.0	.5	.5
25	4.0	3.0	3.5	1.5	1.0	1.5	.0	.0	.0	.5	.5	.5
26	3.0	2.5	2.5	1.5	1.0	1.5	.0	.0	.0	.5	.5	.5
27	2.5	2.0	2.5	1.5	1.0	1.0	.5	.0	.0	.5	.0	.5
28	2.5	2.5	2.5	1.0	.0	1.0	.5	.0	.0	1.0	.5	.5
29	2.5	2.0	2.0	.5	.0	.0	.5	.0	.0	1.0	.5	.5
30	2.0	1.0	1.5	1.5	.5	1.0	.5	.0	.0	1.0	.5	.5
31	2.0	1.0	1.5	---	---	---	.5	.0	.5	.5	.0	.5
MONTH	---	---	---	2.5	.0	1.3	---	---	---	1.0	.0	.4

SOUTHEAST ALASKA

15041200 TAKU RIVER NEAR JUNEAU--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN				
		FEBRUARY				MARCH				APRIL				MAY		
1	1.0	.5	.5	1.0	.5	.5	---	---	---	6.0	5.0	5.5				
2	1.0	.5	.5	1.0	.5	.5	---	---	---	5.5	4.0	4.5				
3	1.0	.5	.5	1.0	.0	.5	---	---	---	4.0	3.5	4.0				
4	1.0	.5	.5	---	---	---	---	---	---	6.0	4.0	5.0				
5	.5	.0	.5	---	---	---	---	---	---	5.5	4.5	5.0				
6	1.0	.0	.5	---	---	---	---	---	---	6.5	5.0	5.5				
7	1.0	.5	.5	---	---	---	---	---	---	6.5	5.5	6.0				
8	1.0	.0	.5	---	---	---	---	---	---	6.5	5.5	6.0				
9	1.0	.0	.5	---	---	---	---	---	---	7.0	5.5	6.0				
10	---	---	---	---	---	---	---	---	---	7.5	6.0	6.5				
11	.5	.0	.5	1.0	.5	.5	---	---	---	8.0	6.0	7.0				
12	1.0	.5	.5	1.0	.5	.5	4.5	3.0	3.5	8.0	6.5	7.0				
13	1.0	.0	.5	1.5	.5	1.0	5.5	3.0	4.0	8.0	6.5	7.0				
14	1.0	.5	.5	---	---	---	5.0	3.0	4.0	8.0	5.5	6.5				
15	1.0	.5	.5	---	---	---	5.5	3.0	4.0	8.0	7.0	7.5				
16	1.0	.5	1.0	---	---	---	5.5	3.0	4.0	8.0	6.0	7.0				
17	1.0	.5	1.0	---	---	---	4.5	3.5	4.0	8.5	6.5	7.5				
18	1.0	.5	.5	---	---	---	5.5	3.0	4.0	8.0	6.0	7.5				
19	1.0	.5	1.0	---	---	---	5.5	4.0	4.5	8.5	6.0	7.0				
20	1.0	.5	1.0	---	---	---	5.5	3.5	4.5	8.5	6.5	7.5				
21	1.0	1.0	1.0	---	---	---	5.5	3.5	4.5	8.5	6.0	7.0				
22	1.0	.5	.5	---	---	---	4.5	4.0	4.5	9.0	7.0	8.0				
23	1.0	.0	.5	---	---	---	5.0	3.5	4.0	8.0	7.0	7.5				
24	1.0	.5	.5	---	---	---	4.0	3.5	4.0	8.5	6.5	7.5				
25	1.0	.5	.5	---	---	---	5.0	3.5	4.0	9.0	6.5	7.5				
26	1.0	.5	.5	---	---	---	5.0	3.5	4.0	10.0	7.0	8.5				
27	1.0	.5	.5	---	---	---	4.5	3.5	4.0	9.5	8.0	8.5				
28	1.0	.5	.5	---	---	---	5.5	4.0	4.5	8.5	7.5	8.0				
29	---	---	---	---	---	---	5.0	4.0	4.5	8.5	7.0	7.5				
30	---	---	---	---	---	---	6.5	4.5	5.0	8.5	7.0	8.0				
31	---	---	---	---	---	---	---	---	---	8.5	7.5	8.0				
MONTH	---	---	---	---	---	---	---	---	---	10.0	3.5	6.8				

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN				
		JUNE				JULY				AUGUST				SEPTEMBER		
1	9.0	7.0	8.0	11.5	8.5	10.0	10.5	9.0	10.0	10.0	9.0	9.5				
2	8.5	7.0	7.5	11.0	9.0	9.5	12.0	9.0	10.5	10.0	9.0	9.5				
3	8.0	6.5	7.0	10.5	7.5	9.0	11.0	9.5	10.0	10.0	8.5	9.5				
4	9.0	6.0	7.5	10.0	8.5	9.0	10.0	9.0	9.5	10.5	9.0	10.0				
5	8.5	7.0	8.0	9.5	8.5	9.0	11.0	9.0	10.0	10.5	9.0	9.5				
6	10.0	6.5	8.0	9.0	7.5	8.0	10.5	8.5	9.5	10.0	8.5	9.5				
7	10.0	7.5	8.5	9.0	7.0	8.0	10.5	8.5	9.5	9.5	8.5	9.0				
8	9.5	7.5	8.5	9.0	7.5	8.5	9.5	7.5	8.5	10.0	8.5	9.0				
9	9.5	7.5	8.5	9.5	8.5	9.0	8.0	5.5	6.5	10.0	8.5	9.0				
10	9.0	7.0	8.0	10.0	8.0	8.5	9.0	4.5	6.5	10.5	8.0	9.0				
11	9.5	6.5	8.0	10.0	8.5	9.0	11.0	8.0	9.0	10.0	8.0	9.0				
12	10.0	8.0	9.0	10.0	8.0	9.0	12.0	9.0	10.5	9.5	8.5	9.0				
13	9.5	8.0	8.5	10.0	8.5	9.0	12.0	9.5	10.5	10.0	9.0	9.5				
14	8.5	7.5	8.0	11.0	8.5	9.5	12.0	9.5	10.5	---	---	---				
15	9.5	7.0	8.0	12.0	8.5	10.0	12.0	9.5	10.5	---	---	---				
16	9.5	8.0	9.0	11.5	9.0	10.0	11.5	9.0	10.5	---	8.5	---				
17	10.5	8.0	9.0	11.0	8.5	9.5	11.0	9.5	10.0	---	---	---				
18	10.5	8.0	9.5	12.0	8.5	10.0	10.5	9.0	9.5	---	9.0	---				
19	10.0	8.5	9.5	12.0	9.0	10.5	11.0	9.5	10.0	---	---	---				
20	10.0	8.0	9.0	12.5	9.5	11.0	10.5	9.5	10.0	---	---	---				
21	9.5	7.5	8.0	12.5	9.5	11.0	10.5	9.5	10.0	---	8.5	---				
22	8.0	6.0	7.0	11.5	9.5	10.0	10.0	9.5	9.5	---	8.5	---				
23	10.0	7.0	8.5	10.0	8.5	9.0	10.5	8.5	9.5	---	8.0	---				
24	10.0	7.5	8.5	10.0	8.5	9.0	10.0	9.0	9.5	---	---	---				
25	8.5	7.0	7.5	9.5	8.5	9.0	10.0	8.5	9.0	---	---	---				
26	10.5	7.0	8.5	10.0	8.5	9.0	10.0	8.5	9.5	9.0	8.0	8.5				
27	10.5	8.5	9.5	10.5	8.5	9.5	10.0	9.0	9.5	8.5	7.5	8.0				
28	9.5	8.5	8.5	11.0	8.5	10.0	10.0	9.0	9.5	8.0	7.0	7.5				
29	10.0	7.5	8.5	11.0	9.0	10.0	9.5	8.5	9.0	8.0	7.0	7.5				
30	10.5	7.5	9.0	---	---	---	10.0	8.5	9.0	---	7.5	8.0				
31	---	---	---	11.0	9.5	10.0	10.0	9.0	9.5	---	---	---				
MONTH	10.5	6.0	8.4	---	---	---	12.0	4.5	9.5	---	---	---				

SOUTHEAST ALASKA

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 12	1830	1180	4.92	No other peak greater than base discharge			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	36	29	19	119	15	e4.9	18	241	203	207	133
2	24	41	28	26	78	13	e4.7	20	222	216	179	324
3	22	147	25	167	59	13	e5.1	36	217	191	168	176
4	19	68	25	76	44	12	5.8	36	239	266	222	156
5	134	44	187	51	36	11	6.0	27	216	350	187	389
6	330	36	116	48	30	12	e5.9	22	201	456	146	291
7	259	37	60	51	28	14	e5.5	24	214	566	135	325
8	182	33	39	89	24	13	e5.1	40	223	422	125	240
9	274	28	30	58	23	14	5.9	69	234	318	102	157
10	190	25	26	42	19	20	e5.6	35	245	323	95	110
11	484	47	24	34	19	31	e5.4	30	195	237	90	85
12	515	91	22	30	18	21	e5.2	32	188	213	94	159
13	417	44	19	28	18	16	e5.0	43	223	357	110	600
14	264	33	17	27	17	14	e4.8	41	212	299	118	385
15	261	30	16	32	16	13	e4.9	42	209	236	112	217
16	187	29	16	32	15	12	e5.3	49	204	212	99	259
17	136	53	15	38	15	11	5.9	54	211	186	106	226
18	102	34	15	44	14	10	7.4	54	220	179	145	182
19	78	32	15	45	14	9.5	8.4	46	246	189	132	187
20	71	56	14	37	13	8.9	8.9	44	306	228	137	230
21	74	223	14	34	13	8.4	10	67	315	233	121	166
22	123	292	13	34	13	7.5	11	123	251	364	103	199
23	164	181	13	42	12	7.0	13	143	230	361	85	170
24	114	126	13	36	12	6.2	15	109	211	289	102	149
25	81	91	13	30	11	6.2	15	79	182	286	93	158
26	59	77	13	27	13	6.0	15	68	176	258	122	122
27	45	58	13	44	29	5.8	24	90	239	190	315	109
28	36	43	12	42	19	5.8	24	129	330	154	150	87
29	30	33	12	32	---	e5.5	20	166	252	189	159	73
30	29	30	18	27	---	e5.3	19	173	205	194	157	263
31	46	---	22	49	---	e5.1	---	225	---	191	162	---
TOTAL	4779	2098	894	1371	741	352.2	281.7	2134	6857	8356	4278	6327
MEAN	154	69.9	28.8	44.2	26.5	11.4	9.39	68.8	229	270	138	211
MAX	515	292	187	167	119	31	24	225	330	566	315	600
MIN	19	25	12	19	11	5.1	4.7	18	176	154	85	73
MED	114	44	17	37	18	11	5.9	46	221	236	125	179
AC-FT	9480	4160	1770	2720	1470	699	559	4230	13600	16570	8490	12550

e Estimated

SOUTHEAST ALASKA

15050000 GOLD CREEK AT JUNEAU-Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2001, BY WATER YEAR (WY)#

MEAN	158	83.3	36.8	21.8	14.5	12.6	24.7	125	225	227	188	184
MAX	349	206	202	170	81.4	137	91.7	220	307	364	374	302
(WY)	2000	1947	2000	1981	1977	1947	1947	1948	1964	1975	1961	1999
MIN	62.6	18.1	6.22	1.71	.48	.055	3.78	64.5	134	130	85.4	73.7
(WY)	1952	1976	1956	1974	1972	1974	1954	1920	1981	1982	1968	1978

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 1916 - 2001#		
ANNUAL TOTAL	46068.5			38468.9					
ANNUAL MEAN	126			105			109		
HIGHEST ANNUAL MEAN							155		
LOWEST ANNUAL MEAN							77.5		
HIGHEST DAILY MEAN	869	Jul 24		600	Sep 13		1830	Aug 12 1961	
LOWEST DAILY MEAN	3.1	Mar 14		4.7	Apr 2		a.00	Mar 4 1951	
ANNUAL SEVEN-DAY MINIMUM	3.3	Mar 10		5.2	Apr 10		.00	Mar 4 1951	
MAXIMUM PEAK FLOW				1180	Oct 12		2950	Sep 25 1996	
MAXIMUM PEAK STAGE				4.92	Oct 12		8.14	Sep 25 1996	
INSTANTANEOUS LOW FLOW				b			a.00	Mar 4 1951	
ANNUAL RUNOFF (AC-FT)	91380			76300			78830		
10 PERCENT EXCEEDS	302			251			262		
50 PERCENT EXCEEDS	79			49			68		
90 PERCENT EXCEEDS	7.4			11			5.0		

See Period of Record; partial years used in monthly statistics
a No flow at times during some winters
b Not determined, see lowest daily discharge

SOUTHEAST ALASKA

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 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	22	e16	17	73	18	9.4	15	65	45	35	36
2	17	20	16	21	42	14	9.2	18	60	48	31	86
3	16	37	15	81	33	13	9.5	42	61	43	27	46
4	15	25	17	38	27	11	11	37	67	53	36	43
5	48	21	163	23	23	11	10	26	57	60	33	79
6	117	19	68	25	19	13	9.9	19	52	100	26	68
7	81	21	42	25	18	17	9.7	18	53	110	24	69
8	59	18	34	36	16	13	9.9	34	55	83	23	57
9	71	16	28	25	15	21	9.8	52	61	66	19	42
10	64	15	25	e19	13	34	9.3	27	64	68	17	34
11	199	31	23	e18	e12	45	9.5	24	48	55	16	29
12	140	52	21	18	12	28	10	24	45	49	16	36
13	130	25	18	18	17	20	10	27	55	79	16	173
14	87	20	e16	19	13	16	9.5	24	50	65	17	102
15	82	19	e16	28	e11	15	9.3	25	49	53	16	62
16	55	18	e15	26	e10	15	9.3	26	51	46	15	75
17	41	31	15	28	e9.5	13	10	26	54	41	18	60
18	32	21	16	29	e9.0	12	12	20	55	38	25	52
19	29	21	14	27	e8.4	9.5	10	17	59	37	28	50
20	27	26	13	22	e8.3	e8.5	10	17	74	42	33	64
21	28	69	12	21	e8.3	e7.6	11	24	71	43	28	47
22	45	102	e11	22	e7.9	e6.9	12	41	58	69	21	51
23	70	58	e11	30	e7.7	e6.3	14	42	56	63	16	43
24	43	44	11	24	e7.6	e5.7	16	31	50	53	17	40
25	31	31	e10	21	e7.5	e5.9	15	29	43	56	16	42
26	26	28	e10	20	17	9.4	15	27	43	51	20	34
27	23	24	e10	38	55	10	26	33	59	38	71	30
28	20	21	10	34	27	10	23	40	77	33	35	27
29	17	18	11	24	---	10	16	53	54	34	46	25
30	18	17	19	20	---	9.8	15	54	45	33	42	60
31	24	---	21	40	---	9.8	---	65	---	32	41	---
TOTAL	1674	890	727	837	527.2	438.4	360.3	957	1691	1686	824	1662
MEAN	54.0	29.7	23.5	27.0	18.8	14.1	12.0	30.9	56.4	54.4	26.6	55.4
MAX	199	102	163	81	73	45	26	65	77	110	71	173
MIN	15	15	10	17	7.5	5.7	9.2	15	43	32	15	25
AC-FT	3320	1770	1440	1660	1050	870	715	1900	3350	3340	1630	3300

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

MEAN	64.1	30.0	27.3	18.3	22.4	17.3	25.0	50.1	56.1	46.1	36.4	63.3
MAX	131	76.9	69.5	33.5	45.0	39.0	38.6	71.3	82.9	69.0	66.5	108
(WY)	1999	1994	2000	1992	1992	1992	1994	1992	1991	1997	1991	1991
MIN	36.2	16.3	12.7	9.65	9.16	9.38	12.0	29.7	35.9	22.7	18.2	41.0
(WY)	1997	1991	1997	1997	1999	1997	2001	1996	1995	1993	1994	1997

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001#	
ANNUAL TOTAL	12934.5		12273.9			
ANNUAL MEAN	35.3		33.6		38.1	
HIGHEST ANNUAL MEAN					48.6	
LOWEST ANNUAL MEAN					29.7	
HIGHEST DAILY MEAN	229	Jul 24	199	Oct 11	954	Oct 20 1998
LOWEST DAILY MEAN	7.1	Mar 11	5.7	Mar 24	5.7	Mar 24 2001
ANNUAL SEVEN-DAY MINIMUM	7.2	Mar 9	7.2	Mar 20	6.8	Mar 4 1998
MAXIMUM PEAK FLOW			302	Dec 5	1930	Sep 25 1996
MAXIMUM PEAK STAGE			2.97	Dec 5	a4.65	Sep 25 1996
ANNUAL RUNOFF (AC-FT)	25660		24350		27600	
10 PERCENT EXCEEDS	71		65		73	
50 PERCENT EXCEEDS	27		26		28	
90 PERCENT EXCEEDS	10		10		10	

See Period of Record
a From flood marks
e Estimated

SOUTHEAST ALASKA

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

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

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

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, and January 15, 1997.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	6.0	7.0	3.2	9.7	4.4	e2.5	2.7	8.1	1.4	3.2	2.1
2	5.5	5.8	7.5	3.5	7.2	3.4	e2.4	3.4	7.9	1.3	2.8	10
3	5.4	9.7	6.6	14	7.7	2.9	e2.3	8.6	9.8	1.2	2.5	4.1
4	5.0	7.3	7.5	6.7	6.3	2.7	e2.7	9.5	8.6	1.8	2.9	4.3
5	8.2	5.7	35	5.2	5.6	2.6	e2.6	7.0	7.3	3.3	2.6	9.2
6	28	5.8	18	6.9	5.0	4.1	e2.4	5.3	6.5	8.2	e2.3	11
7	18	6.6	12	6.4	4.7	5.4	e2.3	5.1	5.9	5.3	e2.2	8.9
8	26	5.6	11	6.8	4.3	4.6	e2.5	6.2	5.4	9.5	e1.9	7.6
9	14	5.1	8.9	5.5	3.8	6.7	e2.3	10	5.3	5.5	e1.6	5.4
10	14	4.9	7.9	4.5	e3.5	12	1.4	7.9	5.3	4.3	1.3	4.4
11	27	7.1	7.1	4.1	e3.1	13	1.3	6.5	4.5	3.3	1.2	3.9
12	22	10	6.2	3.8	3.8	8.4	1.6	6.0	3.9	3.0	1.0	4.0
13	33	6.7	e5.5	4.4	7.1	6.4	1.5	6.1	3.9	4.1	.89	17
14	21	5.9	e5.2	5.2	6.0	5.6	1.3	5.7	3.6	4.5	.79	11
15	20	5.8	e4.9	8.2	4.5	5.2	1.2	5.3	3.5	3.4	.71	6.4
16	15	5.5	e4.6	7.8	e4.1	6.9	1.2	5.2	3.1	2.8	.63	12
17	12	10	e4.7	8.2	e3.2	5.7	1.3	5.2	2.8	2.4	.57	8.6
18	10	7.9	8.5	7.3	e2.9	4.6	1.5	5.4	2.7	2.1	.88	7.6
19	10	7.8	3.7	6.1	e2.6	4.4	1.4	5.1	2.5	1.8	1.6	6.6
20	9.6	7.3	3.2	5.2	e2.5	4.2	1.3	5.3	2.4	1.6	1.5	14
21	10	10	e2.5	5.1	e2.4	3.5	1.3	6.5	2.5	1.5	.94	8.4
22	10	17	e2.4	5.1	e2.3	3.2	1.3	8.1	2.6	12	.77	9.6
23	10	19	e2.3	7.4	e2.1	e3.2	1.5	9.0	2.6	25	.67	9.5
24	9.7	15	e2.3	6.6	e2.0	e3.0	1.8	8.8	2.3	8.3	.64	7.9
25	8.3	11	2.4	5.3	3.0	e3.1	1.8	6.7	2.0	10	.57	7.0
26	7.4	9.8	2.4	5.0	7.5	e3.0	1.8	6.1	1.9	8.0	.71	6.1
27	6.7	8.9	2.3	8.4	21	e3.1	2.8	6.6	1.7	5.7	8.5	5.4
28	6.1	8.0	2.3	9.7	9.2	e3.4	4.6	6.9	1.7	4.7	2.5	4.9
29	5.7	7.1	2.2	6.4	---	e2.9	3.1	7.5	1.6	4.4	2.2	4.6
30	6.4	6.5	3.3	5.4	---	e2.7	2.8	8.2	1.5	4.0	2.4	11
31	6.3	---	3.8	8.1	---	e2.6	---	8.3	---	3.6	2.4	---
TOTAL	396.1	248.8	203.2	195.5	147.1	146.9	59.8	204.2	123.4	158.0	55.37	232.5
MEAN	12.8	8.29	6.55	6.31	5.25	4.74	1.99	6.59	4.11	5.10	1.79	7.75
MAX	33	19	35	14	21	13	4.6	10	9.8	25	8.5	17
MIN	5.0	4.9	2.2	3.2	2.0	2.6	1.2	2.7	1.5	1.2	.57	2.1
AC-FT	786	493	403	388	292	291	119	405	245	313	110	461
CFSM	4.91	3.19	2.52	2.43	2.02	1.82	.77	2.53	1.58	1.96	.69	2.98
IN.	5.67	3.56	2.91	2.80	2.10	2.10	.86	2.92	1.77	2.26	.79	3.33

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

	1997	1998	1999	2000	2001
MEAN	16.9	8.12	12.1	6.76	2.13
MAX	22.2	11.2	20.8	11.3	5.25
(WY)	1999	2000	2000	1999	2001
MIN	11.1	4.21	2.67	3.52	.47
(WY)	1998	1999	1999	1998	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001#

ANNUAL TOTAL	2816.08	2170.87	
ANNUAL MEAN	7.69	5.95	7.97
HIGHEST ANNUAL MEAN			9.87
LOWEST ANNUAL MEAN			5.95
HIGHEST DAILY MEAN	49	Sep 17	129
LOWEST DAILY MEAN	.23	Mar 13	b.00
ANNUAL SEVEN-DAY MINIMUM	.40	Mar 10	.00
MAXIMUM PEAK FLOW		58	149
MAXIMUM PEAK STAGE		5.90	7.59
INSTANTANEOUS LOW FLOW		c.54	b.00
ANNUAL RUNOFF (AC-FT)	5590	4310	5780
ANNUAL RUNOFF (CFSM)	2.96	2.29	3.07
ANNUAL RUNOFF (INCHES)	40.29	31.06	41.67
10 PERCENT EXCEEDS	16	10	17
50 PERCENT EXCEEDS	5.8	5.2	5.2
90 PERCENT EXCEEDS	1.4	1.6	1.2

See Period of Record; partial year used in monthly statistics
a Aug. 17 and 25
b Mar. 3 to Mar. 9
c Aug. 16-17, and 25
e Estimated

SOUTHEAST ALASKA

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.-- Records represent water temperature at the sensor within 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 13.0°C, July 1, 2001; minimum, 0°C, many days during winters.

EXTREMES FOR CURRENT PERIOD.--

WATER TEMPERATURE: Maximum, 13.0°C, July 1; minimum, 0°C, many days during winter.

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

DATE	TIME	STREAM WIDTH (FT) (000004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	GAGE HEIGHT (FEET) (000065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	TEMPER- ATURE WATER (DEG C) (00010)
MAR						
07...	1400	10.8	10.1	3.63	5.9	2.0
07...	1401	10.8	8.10	3.63	5.9	2.0
07...	1402	10.8	6.10	3.63	5.9	2.0
07...	1403	10.8	4.10	3.63	5.9	2.0
07...	1404	10.8	2.10	3.63	5.9	2.0

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	3.5	4.0	5.0	4.0	4.5	3.0	1.5	2.5	2.5	1.5	2.0
2	4.0	3.0	3.5	5.0	4.0	4.5	3.5	3.0	3.5	2.5	2.0	2.0
3	3.5	3.0	3.0	5.5	4.5	5.0	3.5	3.0	3.5	2.0	1.5	2.0
4	3.5	2.5	3.0	5.0	3.0	4.0	3.5	3.5	3.5	2.5	2.0	2.5
5	6.0	3.5	4.5	3.5	3.0	3.0	4.0	3.5	3.5	2.5	1.5	2.0
6	7.0	6.0	6.5	4.0	3.5	3.5	4.5	4.0	4.0	2.5	1.5	2.0
7	7.5	7.0	7.5	4.5	4.0	4.5	4.0	4.0	4.0	3.5	2.5	3.0
8	7.0	6.0	6.5	4.5	4.0	4.5	4.0	2.0	3.0	3.5	3.0	3.0
9	6.5	6.5	6.5	4.0	3.0	3.5	2.0	1.0	1.5	3.0	1.5	2.5
10	7.0	6.5	6.5	3.0	2.5	3.0	2.0	1.5	2.0	1.5	.5	1.0
11	7.0	6.0	6.5	4.0	3.0	3.5	2.5	2.0	2.0	1.5	.5	1.0
12	8.0	7.0	7.5	5.0	4.0	4.5	2.0	.5	1.0	1.0	.5	.5
13	8.0	7.0	7.5	4.5	4.0	4.5	.5	.0	.0	1.5	.5	1.0
14	7.0	6.5	6.5	4.5	4.0	4.5	.0	.0	.0	2.0	1.5	2.0
15	7.0	6.5	6.5	4.5	3.5	4.5	.0	.0	.0	2.0	1.5	2.0
16	7.0	6.5	6.5	4.0	3.0	3.5	.0	.0	.0	2.5	2.0	2.0
17	6.5	5.5	6.0	4.5	4.0	4.0	.0	.0	.0	3.0	2.5	2.5
18	6.0	5.0	5.5	4.0	3.5	3.5	1.0	.0	.0	3.0	2.5	3.0
19	6.5	6.0	6.0	4.0	3.5	4.0	1.5	1.0	1.5	3.5	3.0	3.0
20	6.0	5.5	6.0	5.0	4.0	4.5	1.0	.5	.5	3.0	2.0	2.0
21	6.0	5.5	5.5	5.5	5.0	5.5	.5	.0	.0	3.0	2.0	3.0
22	6.5	5.5	6.0	5.5	5.0	5.5	.0	.0	.0	3.5	3.0	3.5
23	6.5	6.0	6.5	5.0	4.5	4.5	.0	.0	.0	3.5	2.0	3.0
24	6.5	6.0	6.0	4.5	4.5	4.5	.5	.0	.0	2.5	2.0	2.0
25	6.0	5.0	5.5	4.5	4.0	4.5	1.5	.5	1.0	2.5	2.0	2.5
26	5.0	4.0	4.5	4.5	4.5	4.5	1.5	1.5	1.5	3.0	2.5	2.5
27	5.0	4.0	4.5	4.5	4.5	4.5	1.5	1.0	1.5	3.0	3.0	3.0
28	5.0	4.0	4.5	4.5	3.0	4.0	1.5	1.0	1.5	3.0	2.5	2.5
29	4.0	2.5	2.5	3.0	2.0	2.5	1.5	1.0	1.5	3.0	2.5	2.5
30	4.0	2.5	3.0	3.0	2.5	3.0	2.0	1.5	2.0	3.0	2.0	2.5
31	5.0	4.0	4.5	---	---	---	2.0	1.5	2.0	3.5	1.5	2.5
MONTH	8.0	2.5	5.5	5.5	2.0	4.1	4.5	.0	1.5	3.5	.5	2.3

SOUTHEAST ALASKA

15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY--Continued

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

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

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	6.5	8.0	13.0	10.0	11.0	10.0	8.0	9.0	---	---	---
2	9.0	7.0	7.5	12.0	10.0	11.0	11.0	8.5	10.0	---	---	---
3	7.0	6.5	7.0	12.0	8.5	10.5	11.0	9.0	10.0	---	---	---
4	8.5	6.0	7.5	11.5	9.5	10.5	10.0	9.0	9.5	---	---	---
5	8.0	6.5	7.5	9.5	9.0	9.5	---	---	---	---	---	---
6	9.0	6.5	8.0	9.0	8.5	9.0	---	---	---	---	---	---
7	9.0	7.0	8.0	9.0	8.5	8.5	---	---	---	---	---	---
8	10.0	6.0	8.0	9.5	8.0	8.5	---	---	---	---	---	---
9	10.0	7.5	8.5	9.5	8.0	8.5	---	---	---	---	---	---
10	9.0	7.5	8.0	9.0	8.5	8.5	---	---	---	---	---	---
11	8.0	7.0	7.5	9.0	8.0	8.5	---	---	---	---	---	---
12	8.0	7.0	7.5	9.0	8.0	8.5	---	---	---	---	---	---
13	8.0	7.0	7.5	9.0	8.0	8.5	---	---	---	---	---	---
14	9.0	6.5	8.0	10.0	8.0	9.0	---	---	---	---	---	---
15	9.0	7.5	8.0	10.0	8.5	9.0	---	---	---	---	---	---
16	10.5	7.0	9.0	10.0	8.5	9.5	---	---	---	---	---	---
17	10.0	8.5	9.0	10.0	8.5	9.5	---	---	---	---	---	---
18	11.0	8.0	9.5	10.0	8.5	9.5	---	---	---	---	---	---
19	10.5	8.5	9.5	11.0	8.0	9.5	---	---	---	---	---	---
20	10.5	8.5	9.5	12.0	9.0	10.5	---	---	---	---	---	---
21	10.5	9.0	9.5	12.0	10.0	11.0	---	---	---	---	---	---
22	10.0	8.5	9.0	11.5	10.5	11.0	---	---	---	---	---	---
23	9.0	8.0	8.5	11.0	9.5	10.5	---	---	---	---	---	---
24	10.0	7.5	9.0	9.5	9.0	9.0	---	---	---	---	---	---
25	11.0	8.5	10.0	9.0	8.5	9.0	---	---	---	---	---	---
26	11.5	8.0	10.0	9.0	8.5	8.5	---	---	---	---	---	---
27	12.5	9.0	11.0	9.0	8.0	8.5	---	---	---	---	---	---
28	12.0	10.0	11.0	9.5	8.0	8.5	---	---	---	---	---	---
29	10.5	9.0	10.0	9.5	8.0	8.5	---	---	---	---	---	---
30	12.0	9.0	10.5	9.0	8.0	8.5	---	---	---	---	---	---
31	---	---	---	9.0	8.0	8.5	---	---	---	---	---	---
MONTH	12.5	6.0	8.7	13.0	8.0	9.3	---	---	---	---	---	---

SOUTHEAST ALASKA

15052495 NUGGET CREEK ABOVE DIVERSION NEAR AUKE BAY

LOCATION.--Lat 58°25'25", long 134°31'25", in SE¹/₄ SE¹/₄ SW¹/₄ sec. 4, T. 40 S., R. 66 E. (Juneau B-2 NW quad), Hydrologic Unit 19010301, City and Borough of Juneau, on left bank, 1,200 ft upstream from old diversion dam, 3,000 ft upstream from mouth at Mendenhall Lake and 5.2 mi northeast of Auke Bay.

DRAINAGE AREA.-- 15.8 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 590 ft above sea level, from topographic map.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	55	80	47	86	31	11	36	346	361	343	270
2	99	78	79	50	63	28	12	38	313	354	344	474
3	88	273	71	146	55	27	12	55	336	314	329	275
4	76	116	70	83	48	27	12	54	310	427	415	289
5	319	83	245	63	42	26	12	40	272	609	413	518
6	643	71	134	60	39	28	12	33	276	657	288	520
7	590	70	93	62	39	30	12	34	295	726	244	474
8	391	59	77	78	35	28	12	40	328	590	236	481
9	339	51	66	60	34	30	13	56	364	513	219	266
10	276	47	64	51	29	39	12	42	380	471	198	185
11	453	70	59	46	32	61	13	46	307	372	187	147
12	810	93	54	44	34	37	13	51	321	329	214	219
13	665	60	51	42	36	25	13	78	372	447	261	925
14	402	49	e50	41	32	22	13	72	321	397	285	734
15	276	48	49	49	31	21	13	79	341	345	303	400
16	195	49	46	48	31	20	14	84	343	324	249	467
17	148	78	45	52	30	19	17	85	355	286	227	423
18	119	51	45	60	30	17	22	80	366	299	325	327
19	109	53	42	55	29	16	23	75	406	383	497	261
20	102	89	40	47	28	e15	24	74	582	458	398	289
21	99	265	38	44	28	14	27	93	554	467	365	224
22	140	406	37	44	27	14	30	160	452	763	301	305
23	197	210	36	54	26	14	33	165	432	778	234	230
24	143	146	35	45	26	14	33	116	397	662	227	190
25	106	114	35	41	26	14	32	90	325	727	206	186
26	86	100	34	40	31	14	34	90	318	676	304	144
27	72	90	33	57	61	13	53	130	506	439	769	130
28	63	80	33	52	36	12	50	173	612	330	382	112
29	55	68	33	42	---	12	41	218	437	421	391	104
30	57	73	51	39	---	12	37	224	365	474	358	237
31	62	---	59	61	---	12	---	340	---	396	318	---
TOTAL	7302	3095	1884	1703	1044	692	655	2951	11332	14795	9830	9806
MEAN	236	103	60.8	54.9	37.3	22.3	21.8	95.2	378	477	317	327
MAX	810	406	245	146	86	61	53	340	612	778	769	925
MIN	55	47	33	39	26	12	11	33	272	286	187	104
MED	140	76	50	50	32	20	14	78	350	439	303	272
AC-FT	14480	6140	3740	3380	2070	1370	1300	5850	22480	29350	19500	19450
CFSM	14.9	6.53	3.85	3.48	2.36	1.41	1.38	6.02	23.9	30.2	20.1	20.7
IN.	17.19	7.29	4.44	4.01	2.46	1.63	1.54	6.95	26.68	34.83	23.14	23.09

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

	2000	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MEAN	236	103	60.8	54.9	37.3	22.3	24.4	120	427	532	377	382
MAX	236	103	60.8	54.9	37.3	22.3	26.9	146	476	586	436	438
(WY)	2001	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000
MIN	236	103	60.8	54.9	37.3	22.3	21.8	95.2	378	477	317	327
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 2000 - 2001#

ANNUAL TOTAL	65089		
ANNUAL MEAN	178	178	2001
HIGHEST ANNUAL MEAN		178	2001
LOWEST ANNUAL MEAN		178	2001
HIGHEST DAILY MEAN	925	Sep 13	1380
LOWEST DAILY MEAN	11	Apr 1	11
ANNUAL SEVEN-DAY MINIMUM	12	Mar 28	12
MAXIMUM PEAK FLOW	1820	Oct 12	2220
MAXIMUM PEAK STAGE	24.42	Oct 12	24.86
INSTANTANEOUS LOW FLOW	9.8	Apr 2	9.8
ANNUAL RUNOFF (AC-FT)	129100		129200
ANNUAL RUNOFF (CFSM)	11.3		11.3
ANNUAL RUNOFF (INCHES)	153.25		153.35
10 PERCENT EXCEEDS	438		548
50 PERCENT EXCEEDS	79		146
90 PERCENT EXCEEDS	23		23

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

SOUTHEAST ALASKA

15052500 MENDENHALL RIVER NEAR AUKE BAY

LOCATION.--Lat 58°25'47", long 134°34'22", in NW¹/₄ SE¹/₄ sec. 6, T. 40 S., R. 66 E. (Juneau B-2 NW quad.), Hydrologic Unit 19010301, at the north end of Mendenhall Lake, 1.2 mi north of Mendenhall Lake Outlet and 4.1 mi northeast of Auke Bay, and 7 mi upstream from mouth at Fritz Cove.

DRAINAGE AREA.--85.1 mi².

PERIOD OF RECORD.--May 1965 to October 1994, annual maximum, water years 1995-96, October 1996 to current year. Prior to April 15, 1983, at site 1.3 mi southeast at east end of Mendenhall Lake, same datum.

REVISED RECORDS.--WDR AK-95-1: 1981(M)

GAGE.--Water-stage recorder. Elevation of gage is 60 ft above sea level, from topographic map.

REMARKS.--Records fair except estimated daily discharges, which are poor. Streamflow is augmented and diurnal fluctuations caused by melting from Mendenhall Glacier, which covers two-thirds of the basin. GOES satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--During late summer 1961, flood flows of 27,000 ft³/s were estimated at the mouth of the Mendenhall River. For discussion of this flood, see USGS Hydrologic Atlas HA-259.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,600 ft³/s and maximum (*):.

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jul 23	0445	5750	7.02	Sep 15	0315	*6380	*7.33
Aug 29	1200	5000	6.62				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1780	370	324	142	193	102	46	140	1010	e2850	3230	2880
2	1260	365	e303	150	195	90	42	144	1050	e2600	2970	3240
3	962	516	e280	250	191	80	40	176	1150	e2400	3170	2900
4	797	632	e300	312	176	71	43	209	1290	e2800	3230	2620
5	874	598	e500	300	159	64	46	202	1390	e3600	3270	3000
6	1800	569	e465	295	141	61	45	179	1280	e3700	2890	4090
7	3300	597	e395	290	136	68	44	166	1260	e4200	2650	3580
8	3290	583	e315	311	126	71	44	176	1270	e3400	2570	3860
9	2990	496	e272	294	115	76	48	220	1390	3170	2480	2550
10	2630	424	e250	266	e103	93	48	223	1480	3060	2390	1950
11	2270	416	e220	245	e95	140	48	214	1360	2510	2260	1850
12	2500	472	e205	228	e87	164	49	216	1390	2250	2300	1750
13	3510	427	e190	215	99	149	49	238	1530	2420	2720	3250
14	3280	378	161	195	94	130	48	254	1570	2560	3130	6030
15	2310	365	159	191	82	116	47	276	1680	2430	3170	5640
16	1660	347	149	187	73	118	48	293	1800	2430	2890	4710
17	1380	405	140	172	66	109	50	308	1860	2360	2740	4120
18	1060	357	141	169	60	100	57	310	1860	2380	2790	3460
19	909	333	137	157	55	88	64	309	1960	2610	3170	2610
20	837	338	128	137	51	77	71	308	2130	3190	3300	2480
21	804	483	121	119	48	67	81	365	2440	3540	3430	1880
22	788	777	114	110	46	60	88	437	2600	4400	3260	2050
23	934	703	110	127	44	55	96	536	2970	5410	2830	2360
24	983	690	105	131	41	52	104	573	2630	4380	2560	2090
25	876	578	102	120	39	50	108	513	2220	4440	2460	1790
26	719	529	100	113	43	49	110	469	2130	4110	2810	1450
27	574	368	97	128	82	49	126	513	2350	3260	4330	1160
28	466	247	96	157	105	50	154	607	3020	2930	4840	1080
29	395	289	94	146	---	50	153	711	e3200	3020	4770	1030
30	364	319	106	132	---	49	146	768	e3000	3470	4020	1280
31	369	---	133	138	---	49	---	863	---	3700	3470	---
TOTAL	46671	13971	6212	5927	2745	2547	2143	10916	56270	99580	96100	82740
MEAN	1506	466	200	191	98.0	82.2	71.4	352	1876	3212	3100	2758
MAX	3510	777	500	312	195	164	154	863	3200	5410	4840	6030
MIN	364	247	94	110	39	49	40	140	1010	2250	2260	1030
AC-FT	92570	27710	12320	11760	5440	5050	4250	21650	111600	197500	190600	164100
CFSM	17.7	5.47	2.35	2.25	1.15	.97	.84	4.14	22.0	37.7	36.4	32.4
IN.	20.40	6.11	2.72	2.59	1.20	1.11	.94	4.77	24.60	43.53	42.01	36.17

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

	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			
MEAN	1350	351	157	113	90.9	93.1	140	648	1870	3005	3321	2683																												
MAX	2649	920	526	600	254	379	313	1227	2819	3835	4701	4100																												
(WY)	1987	1977	2000	1981	1977	1992	1994	1993	1969	1979	1990	1991																												
MIN	532	110	40.0	30.8	21.5	22.3	56.9	268	732	1939	2025	1380																												
(WY)	1969	1986	1984	1969	1969	1974	1967	1985	1985	1985	1985	1984																												

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

SOUTHEAST ALASKA

15052500 MENDENHALL RIVER NEAR AUKE BAY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001#	
ANNUAL TOTAL	446110		425822			
ANNUAL MEAN	1219		1167			
HIGHEST ANNUAL MEAN					1164	
LOWEST ANNUAL MEAN					1547	1990
HIGHEST DAILY MEAN	7630	Aug 22	6030	Sep 14	13700	Sep 8 1981
LOWEST DAILY MEAN	39	Mar 13	39	Feb 25	19	Mar 1 1969
ANNUAL SEVEN-DAY MINIMUM	41	Mar 10	43	Apr 2	19	Mar 5 1974
MAXIMUM PEAK FLOW			6380	Sep 15	16000	Sep 11 1995
MAXIMUM PEAK STAGE			7.33	Sep 15	a11.18	Sep 11 1995
INSTANTANEOUS LOW FLOW			37	Apr 3	b19	Mar 1 1969
ANNUAL RUNOFF (AC-FT)	884900		844600		843000	
ANNUAL RUNOFF (CFSM)	14.3		13.7		13.7	
ANNUAL RUNOFF (INCHES)	195.01		186.14		185.79	
10 PERCENT EXCEEDS	3190		3230		3210	
50 PERCENT EXCEEDS	474		378		401	
90 PERCENT EXCEEDS	75		60		48	

See Period of Record; partial years used in monthly summary statistics and break in record
a From floodmarks
b Mar. 1-3, 1969, and Mar. 7-11, 1974

SOUTHEAST ALASKA

15052800 MONTANA CREEK NEAR AUKE BAY

LOCATION.--Lat 58°23'53", long 134°36'34", in SE¹/₄ SW¹/₄ sec. 13, T. 40 S., R. 65 E. (Juneau B-2 NW quad.), Hydrologic Unit 19010301, On right bank 30 ft upstream from bridge on Mendenhall Loop Road, 1.2 mi upstream from mouth at Mendenhall River, 1.5 mi northeast of Auke Lake, and 3.9 mi downstream from McGinnis Creek.

DRAINAGE AREA.--14.1 mi².

PERIOD OF RECORD.-- August 1965 to September 1975, July 1983 to September 1987, Annual Maximum 1996 to 2000, November 2000 to September 2001.

REVISED RECORDS.--WDR-99-1: 1996-98 (M).

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	e68	53	32	152	81	18	42	164	105	108	121
2	---	e62	59	40	62	58	17	42	142	103	103	230
3	---	e95	53	124	70	46	16	135	198	91	97	118
4	---	e60	59	62	48	38	21	154	152	115	117	128
5	---	e68	868	48	38	28	25	79	131	210	137	376
6	---	e60	262	75	32	26	22	54	120	292	94	304
7	---	e70	134	58	31	43	20	44	126	452	77	268
8	---	65	108	75	28	37	21	48	122	329	69	203
9	---	54	91	54	e25	56	29	156	134	227	56	137
10	---	49	83	37	e22	149	25	69	146	182	61	100
11	---	157	77	31	e21	236	22	68	114	123	58	84
12	---	163	e69	28	e20	94	26	68	111	106	58	131
13	---	73	e56	31	e20	55	25	82	124	170	63	1300
14	---	59	e48	43	e19	41	23	64	114	154	65	481
15	---	67	e44	87	e19	36	24	66	117	123	66	175
16	---	65	e41	76	e19	50	26	e60	118	108	61	215
17	---	139	e39	67	e18	44	31	e57	122	93	58	164
18	---	77	e40	65	e18	36	52	e56	119	87	89	175
19	---	70	e42	50	e18	e24	42	e57	130	96	77	140
20	---	68	e40	39	e18	e19	39	e54	162	115	84	242
21	---	89	e37	34	e17	e16	40	e60	171	116	63	120
22	---	134	e34	38	e17	e14	40	e75	137	400	56	165
23	---	139	e28	64	e16	e14	44	e130	126	504	50	158
24	---	107	e24	48	e16	e13	40	e105	118	221	50	110
25	---	76	e23	37	e36	e12	40	77	101	302	50	90
26	---	66	e22	37	56	25	40	67	96	246	84	77
27	---	64	e22	69	194	20	75	79	116	138	295	69
28	---	60	22	86	120	19	82	95	143	109	107	63
29	---	51	21	47	---	20	47	116	110	141	252	58
30	---	47	44	36	---	19	40	132	94	140	203	196
31	---	---	51	81	---	20	---	151	---	118	248	---
TOTAL	---	2422	2594	1699	1170	1389	1012	2542	3878	5716	3056	6198
MEAN	---	80.7	83.7	54.8	41.8	44.8	33.7	82.0	129	184	98.6	207
MAX	---	163	868	124	194	236	82	156	198	504	295	1300
MIN	---	47	21	28	16	12	16	42	94	87	50	58
AC-FT	---	4800	5150	3370	2320	2760	2010	5040	7690	11340	6060	12290
CFSM	---	5.73	5.93	3.89	2.96	3.18	2.39	5.82	9.17	13.1	6.99	14.7
IN.	---	6.39	6.84	4.48	3.09	3.66	2.67	6.71	10.23	15.08	8.06	16.35

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

	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					
MEAN	158	74.3	46.2	43.2	39.1	50.2	54.3	132	164	148	160	166																														
MAX	285	138	112	186	121	195	88.5	185	207	213	246	263																														
(WY)	1975	1975	1986	1985	1971	1972	1969	1972	1967	1975	1972	1987																														
MIN	89.7	21.4	15.9	5.02	7.52	9.64	33.7	72.6	71.1	52.5	69.2	70.9																														
(WY)	1969	1986	1972	1974	1972	1974	2001	1984	1971	1971	1968	1984																														

SUMMARY STATISTICS

FOR 2001 WATER YEAR

WATER YEARS 1965 - 2001#

ANNUAL MEAN									104			
HIGHEST ANNUAL MEAN									131			1975
LOWEST ANNUAL MEAN									80.8			1971
HIGHEST DAILY MEAN									1350		Sep 29	1970
LOWEST DAILY MEAN				1300	Sep 13				3.4	Feb 8	1972	
ANNUAL SEVEN-DAY MINIMUM				12	Mar 25				3.5	Jan 13	1974	
MAXIMUM PEAK FLOW				1670	Sep 13				3800	Oct 20	1998	
MAXIMUM PEAK STAGE				14.75	Sep 13				17.36	Oct 20	1998	
INSTANTANEOUS LOW FLOW									3.2	Feb 8	1972	
ANNUAL RUNOFF (AC-FT)									75660			
ANNUAL RUNOFF (CFSM)									7.41			
ANNUAL RUNOFF (INCHES)									100.64			
10 PERCENT EXCEEDS									224			
50 PERCENT EXCEEDS									77			
90 PERCENT EXCEEDS									15			

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

SOUTHEAST ALASKA

15053200 DUCK CREEK BELOW NANCY STREET NEAR AUKE BAY

LOCATION.--Lat 58°22'31", long 134°34'38", in NW¼ SW¼ NE¼ 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 current year.

GAGE.--Water-stage recorder. Datum of gage is 21.87 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 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	4.9	5.0	2.7	6.1	5.4	1.6	2.1	2.7	.92	2.7	3.1
2	8.1	4.6	5.2	3.0	5.0	3.6	1.5	2.5	2.6	.95	2.4	4.6
3	8.8	6.8	5.0	7.2	5.0	2.7	1.3	5.3	3.0	.89	2.2	3.9
4	8.1	4.4	5.7	5.1	4.4	2.0	2.0	6.4	2.9	.91	2.6	4.0
5	12	4.9	24	4.5	3.9	1.7	1.7	5.2	2.7	1.1	2.4	4.5
6	21	4.6	16	5.4	3.5	2.2	1.6	4.5	2.5	1.5	2.2	5.1
7	21	5.1	10	5.0	3.4	2.7	1.4	4.2	2.3	1.6	2.2	5.2
8	23	4.7	8.1	5.1	3.2	2.7	1.5	5.1	2.2	2.4	2.1	4.9
9	19	4.3	7.1	4.5	2.9	3.6	1.7	8.0	2.1	2.3	1.9	4.2
10	18	4.0	6.5	3.9	2.6	7.0	1.5	6.1	2.0	2.0	1.9	3.6
11	23	7.1	5.2	3.5	2.2	9.2	1.3	5.1	1.9	1.8	1.9	3.2
12	22	8.9	4.8	3.2	e2.1	7.0	1.3	4.6	1.8	1.6	1.8	3.1
13	24	6.4	4.0	3.4	e2.1	5.4	1.2	4.4	1.7	2.0	1.8	5.6
14	18	5.3	2.9	3.9	e2.1	4.6	1.1	3.7	1.7	2.0	1.8	6.4
15	14	5.3	2.5	6.7	e2.0	4.1	.96	3.4	1.7	1.9	1.8	5.3
16	8.8	4.8	2.4	6.1	e2.0	5.1	.92	3.2	1.6	3.6	1.7	6.5
17	7.4	9.2	2.3	6.0	e2.0	4.7	.98	3.1	1.5	2.8	1.7	5.9
18	6.3	6.9	3.9	5.3	e1.9	4.0	1.1	3.1	1.4	1.9	1.8	5.4
19	6.3	6.2	3.0	4.5	e1.9	3.4	1.0	3.0	1.4	1.7	2.6	5.1
20	6.0	5.6	2.5	4.1	1.9	2.9	1.1	2.9	1.3	1.5	2.4	7.2
21	6.9	6.3	2.2	3.8	1.9	2.4	1.2	3.2	1.2	1.8	2.1	6.1
22	7.9	9.1	2.0	3.7	1.8	2.0	1.2	3.8	1.4	6.4	2.0	5.8
23	7.9	11	2.1	4.9	1.8	1.8	1.2	4.5	1.3	9.8	1.9	5.8
24	7.1	9.9	2.1	4.9	1.7	e1.7	1.3	4.4	1.2	5.2	1.8	5.3
25	5.7	7.8	2.1	4.3	1.7	e1.7	1.5	3.6	1.2	5.1	1.8	5.0
26	4.9	6.8	2.1	3.9	3.6	e1.6	1.6	3.3	1.1	4.5	1.8	4.5
27	4.3	6.2	2.1	5.9	16	e1.5	1.9	3.1	1.0	3.9	4.3	4.1
28	3.7	5.7	2.1	6.8	8.4	1.9	2.4	2.9	.97	3.5	3.2	3.9
29	3.1	5.2	2.0	5.2	---	1.9	2.2	2.8	.96	3.3	3.2	3.7
30	4.2	4.8	3.1	4.5	---	1.7	2.2	2.9	.95	3.1	3.2	6.4
31	4.9	---	3.2	5.3	---	1.7	---	2.9	---	2.9	3.3	---
TOTAL	344.2	186.8	151.2	146.3	97.1	103.9	43.46	123.3	52.28	84.87	70.5	147.4
MEAN	11.1	6.23	4.88	4.72	3.47	3.35	1.45	3.98	1.74	2.74	2.27	4.91
MAX	24	11	24	7.2	16	9.2	2.4	8.0	3.0	9.8	4.3	7.2
MIN	3.1	4.0	2.0	2.7	1.7	1.5	.92	2.1	.95	.89	1.7	3.1
AC-FT	683	371	300	290	193	206	86	245	104	168	140	292
CFSM	8.54	4.79	3.75	3.63	2.67	2.58	1.11	3.06	1.34	2.11	1.75	3.78
IN.	9.85	5.35	4.33	4.19	2.78	2.97	1.24	3.53	1.50	2.43	2.02	4.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)#

	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	9.48	4.91	5.51	2.66	2.18	2.42	3.09	3.04
MAX	18.1	10.3	12.2	4.85	3.55	5.08	6.16	4.97
(WY)	2000	2000	2000	2000	1997	1994	1999	1999
MIN	5.29	2.36	1.95	.85	.79	.94	1.45	1.60
(WY)	1998	1996	1996	1997	1999	1995	2001	1996

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1994 - 2001#
ANNUAL TOTAL	1958.79	1551.31	
ANNUAL MEAN	5.35	4.25	4.18
HIGHEST ANNUAL MEAN			6.90
LOWEST ANNUAL MEAN			3.26
HIGHEST DAILY MEAN	30	24	68
LOWEST DAILY MEAN	.19	.89	.19
ANNUAL SEVEN-DAY MINIMUM	.26	.94	.26
MAXIMUM PEAK FLOW		34	80
MAXIMUM PEAK STAGE		5.96	6.80
MAXIMUM PEAK STAGE			a7.59
INSTANTANEOUS LOW FLOW		b.80	c.18
ANNUAL RUNOFF (AC-FT)	3890	3080	3030
ANNUAL RUNOFF (CFSM)	4.12	3.27	3.21
ANNUAL RUNOFF (INCHES)	56.05	44.39	43.67
10 PERCENT EXCEEDS	12	7.1	8.4
50 PERCENT EXCEEDS	3.7	3.2	2.7
90 PERCENT EXCEEDS	1.2	1.5	1.1

See period of Record; partial years used in monthly summary statistics
a Backwater caused by culvert, which was removed Apr. 1998
b Jul. 3 and 4
c Mar. 8, 1999 and Mar. 14 and 15, 2000
e Estimated

SOUTHEAST ALASKA

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.--No estimated daily discharges. Records fair,

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	72	65	28	72	46	18	53	222	368	233	219
2	137	69	66	29	72	42	18	52	258	365	240	229
3	117	84	61	61	69	37	17	60	279	352	255	217
4	100	86	57	75	63	33	18	71	270	352	255	195
5	108	80	76	68	56	30	18	71	258	324	255	199
6	283	73	97	65	50	29	18	66	245	309	239	217
7	406	69	90	66	46	32	17	61	256	309	219	221
8	416	64	79	81	41	31	17	60	269	322	207	251
9	341	59	69	79	37	30	17	63	291	306	202	226
10	270	54	61	70	33	30	17	62	333	297	197	191
11	255	54	55	61	30	34	17	59	333	278	192	163
12	304	64	49	54	28	41	17	60	349	256	191	152
13	476	65	44	49	29	40	16	68	354	241	206	377
14	380	61	39	45	28	38	16	75	338	238	228	704
15	380	58	36	45	26	36	16	80	305	246	237	569
16	305	55	33	44	25	35	16	87	291	267	226	409
17	233	58	31	44	23	33	16	92	320	273	212	343
18	183	56	32	49	21	31	18	91	337	280	201	322
19	154	52	32	49	20	29	19	90	360	305	216	261
20	133	51	30	47	19	26	21	88	382	359	227	213
21	121	83	28	44	18	25	24	88	432	389	220	177
22	123	162	27	43	18	23	26	97	425	454	205	191
23	147	172	25	47	17	22	29	118	386	501	185	184
24	144	151	24	46	17	20	33	120	372	410	166	171
25	126	128	23	43	16	19	36	111	343	366	154	179
26	109	111	23	39	17	19	37	105	323	334	169	162
27	94	96	22	45	39	19	45	111	336	305	281	144
28	83	83	21	53	50	18	55	128	388	284	321	127
29	73	72	21	50	---	18	56	154	413	270	287	113
30	67	64	22	46	---	18	55	168	379	252	260	116
31	70	---	27	50	---	19	---	183	---	240	244	---
TOTAL	6306	2406	1365	1615	980	903	743	2792	9847	9852	6930	7242
MEAN	203	80.2	44.0	52.1	35.0	29.1	24.8	90.1	328	318	224	241
MAX	476	172	97	81	72	46	56	183	432	501	321	704
MIN	67	51	21	28	16	18	16	52	222	238	154	113
AC-FT	12510	4770	2710	3200	1940	1790	1470	5540	19530	19540	13750	14360
CFSM	7.82	3.08	1.69	2.00	1.35	1.12	.95	3.46	12.6	12.2	8.60	9.28
IN.	9.02	3.44	1.95	2.31	1.40	1.29	1.06	3.99	14.09	14.10	9.92	10.36

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

	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001		
MEAN	180	65.9	76.1	37.2	24.0	21.6	43.0	136	318	281	216	237
MAX	240	80.2	134	52.1	35.0	29.1	55.8	204	330	327	231	271
(WY)	1999	2001	2000	2001	2001	1999	1999	1998	1999	2000	2000	1999
MIN	104	50.8	33.9	21.2	11.5	14.6	24.8	90.1	290	215	189	207
(WY)	1998	1999	1999	1999	1999	1999	2001	2001	1998	1998	1998	1998

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001#

ANNUAL TOTAL	52173	50981		
ANNUAL MEAN	143	140		
HIGHEST ANNUAL MEAN			137	
LOWEST ANNUAL MEAN			147	2000
HIGHEST DAILY MEAN	543	Sep 17	704	Sep 14
LOWEST DAILY MEAN	17	Mar 13	a16	Feb 25
ANNUAL SEVEN-DAY MINIMUM	18	Mar 10	16	Apr 11
MAXIMUM PEAK FLOW			768	Sep 14
MAXIMUM PEAK STAGE			32.95	Sep 14
INSTANTANEOUS LOW FLOW			15	Feb 25
ANNUAL RUNOFF (AC-FT)	103500	101100		99160
ANNUAL RUNOFF (CFSM)	5.48	5.37		5.26
ANNUAL RUNOFF (INCHES)	74.65	72.94		71.53
10 PERCENT EXCEEDS	325	335		324
50 PERCENT EXCEEDS	96	79		111
90 PERCENT EXCEEDS	22	21		21

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

a Feb. 25 and Apr. 13-17

b From rating curve extended above 600 ft³/s on basis of slope-area measurement at gage height, 34.07 ft

SOUTHEAST ALASKA

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 200 ft upstream from mouth on west 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 25 ft above sea level, from topographic map.

REMARKS.--Records poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	3.0	2.0	1.6	2.3	1.2	.64	2.8	13	38	20	30
2	5.9	3.1	1.8	1.8	1.4	.98	.62	2.9	15	36	24	29
3	5.8	4.4	1.7	4.8	1.1	.89	.64	2.9	13	35	23	17
4	5.4	3.0	2.0	2.3	1.0	.87	.74	2.7	11	47	21	14
5	25	2.7	4.0	1.6	.78	.88	.84	2.3	9.6	37	19	14
6	47	2.6	3.3	1.5	e.65	1.0	.88	2.1	9.5	48	17	11
7	50	2.6	2.4	2.0	e.60	1.6	.99	2.2	10	49	16	13
8	20	2.6	1.8	2.2	e.60	1.3	1.1	2.1	12	39	16	10
9	13	2.4	1.5	1.6	e.55	1.2	1.1	2.1	17	39	17	9.5
10	10	2.2	1.5	1.1	e.55	1.3	1.2	2.0	17	29	16	9.0
11	11	2.4	1.5	.94	e.50	1.5	1.3	2.2	16	24	16	8.1
12	80	3.1	1.4	e.90	e.50	1.4	1.3	2.6	18	22	18	19
13	26	2.6	e1.2	e.85	e.48	1.2	.98	3.5	19	27	22	67
14	14	2.3	e1.1	1.1	e.48	1.2	.93	4.0	14	33	25	39
15	15	2.0	e1.1	1.6	e.46	1.1	.95	5.6	13	40	22	23
16	9.4	2.0	e1.0	1.5	e.46	1.0	1.2	5.6	16	45	20	27
17	7.9	2.5	e.95	2.2	e.44	.93	1.8	5.3	24	44	20	37
18	6.9	2.0	e1.0	2.8	e.44	e.80	2.1	5.5	26	54	20	31
19	6.3	1.9	e1.1	1.9	e.42	e.70	2.8	5.6	29	57	21	21
20	5.9	3.0	1.1	1.4	e.44	e.65	3.5	5.8	40	42	20	17
21	5.3	6.3	1.1	1.2	e.44	e.60	4.1	5.8	41	37	19	17
22	6.2	8.7	1.0	1.4	e.42	e.55	3.7	6.4	29	62	18	17
23	6.0	4.7	1.1	1.6	e.40	e.55	3.0	5.8	26	45	16	12
24	5.0	3.8	1.0	1.2	e.36	e.50	2.9	5.0	31	32	15	16
25	4.4	3.2	1.1	1.0	e.40	e.60	2.9	4.8	25	30	15	15
26	4.0	2.9	1.1	1.1	.87	e.65	2.9	5.7	27	24	23	11
27	3.4	2.7	1.1	1.8	2.4	e.70	3.7	8.4	32	21	51	9.1
28	3.0	2.3	1.0	1.6	1.5	e.70	3.5	9.4	42	22	27	8.2
29	2.9	2.0	1.2	1.0	---	.73	2.8	10	41	24	38	7.4
30	3.1	1.9	3.1	.88	---	.68	2.6	8.8	32	20	42	7.7
31	3.3	---	2.5	2.1	---	.68	---	11	---	18	40	---
TOTAL	418.0	90.9	48.75	50.57	20.94	28.64	57.71	150.9	668.1	1120	697	566.0
MEAN	13.5	3.03	1.57	1.63	.75	.92	1.92	4.87	22.3	36.1	22.5	18.9
MAX	80	8.7	4.0	4.8	2.4	1.6	4.1	11	42	62	51	67
MIN	2.9	1.9	.95	.85	.36	.50	.62	2.0	9.5	18	15	7.4
AC-FT	829	180	97	100	42	57	114	299	1330	2220	1380	1120
CFSM	8.81	1.98	1.03	1.07	.49	.60	1.26	3.18	14.6	23.6	14.7	12.3
IN.	10.16	2.21	1.19	1.23	.51	.70	1.40	3.67	16.24	27.23	16.95	13.76

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

	1997	1998	1999	2000	2001
MEAN	10.1	3.32	3.32	1.36	1.06
MAX	14.9	4.16	5.70	1.63	1.28
(WY)	1999	1999	2000	2001	1998
MIN	4.70	2.81	1.57	1.12	.75
(WY)	1998	2000	2001	1998	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001#

ANNUAL TOTAL	3622.89	3917.51	
ANNUAL MEAN	9.90	10.7	10.9
HIGHEST ANNUAL MEAN			13.3
LOWEST ANNUAL MEAN			9.66
HIGHEST DAILY MEAN	80	80	152
LOWEST DAILY MEAN	.55	.36	.36
ANNUAL SEVEN-DAY MINIMUM	.59	.41	.41
MAXIMUM PEAK FLOW		a342	a415
MAXIMUM PEAK STAGE		8.65	8.77
ANNUAL RUNOFF (AC-FT)	7190	7770	7860
ANNUAL RUNOFF (CFSM)	6.47	7.01	7.09
ANNUAL RUNOFF (INCHES)	88.09	95.25	96.38
10 PERCENT EXCEEDS	28	31	32
50 PERCENT EXCEEDS	3.7	3.2	5.2
90 PERCENT EXCEEDS	.81	.74	.98

See Period of Record; partial years used in monthly statistics

a From rating curve extended above 51 ft³/s

e Estimated

SOUTHEAST ALASKA

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.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 15.0°C, August 1-2, 1999; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 14.5°C, August 14 and 15; minimum, 0.0°C, on many days during winter.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.0	1.5	4.0	2.0	3.5	1.5	.0	.5	1.5	1.0	1.5
2	2.0	1.0	1.5	2.5	1.5	2.0	1.5	.5	1.0	2.0	1.5	1.5
3	3.0	1.5	2.0	5.0	2.5	4.0	2.0	1.5	1.5	2.5	1.5	2.5
4	3.0	1.0	2.0	2.5	1.0	1.5	2.0	.5	1.5	2.5	2.0	2.0
5	6.5	2.5	4.0	1.5	.5	1.0	3.0	.5	2.0	2.0	1.5	1.5
6	7.5	5.5	6.5	1.5	.5	1.0	3.0	2.0	2.5	2.5	2.0	2.0
7	7.0	5.5	6.5	2.0	.5	1.5	2.5	1.5	2.0	3.5	2.5	3.0
8	6.5	4.5	5.5	3.0	1.5	2.0	1.5	.5	1.0	3.5	2.5	2.5
9	7.0	5.0	6.0	1.5	1.0	1.0	.5	.0	.0	2.5	.5	1.5
10	6.0	5.0	5.5	2.0	.5	1.0	.0	.0	.0	.5	.0	.0
11	7.5	5.0	6.5	3.5	2.0	3.0	.5	.0	.0	.0	.0	.0
12	7.5	6.0	6.5	4.0	3.0	3.5	.5	.0	.0	.0	.0	.0
13	7.0	5.0	6.0	3.5	3.0	3.5	.0	.0	.0	.5	.0	.0
14	6.0	5.0	5.0	3.5	3.0	3.5	.0	.0	.0	1.0	.5	.5
15	7.0	5.5	6.0	3.5	3.0	3.5	.0	.0	.0	1.5	1.0	1.0
16	6.0	5.0	5.5	3.0	2.5	2.5	.0	.0	.0	1.5	1.5	1.5
17	7.0	4.5	5.5	3.5	2.5	3.0	.0	.0	.0	2.5	1.5	2.0
18	5.5	4.5	4.5	3.5	2.5	3.0	.0	.0	.0	2.5	2.0	2.5
19	6.0	4.5	5.0	3.5	2.0	2.5	.0	.0	.0	2.5	2.0	2.5
20	4.5	3.5	4.0	4.5	3.5	4.0	.5	.0	.0	2.0	1.0	1.5
21	4.5	2.5	4.0	5.0	4.5	5.0	.5	.0	.0	2.0	1.0	1.5
22	6.0	3.0	5.0	5.0	3.5	4.5	.0	.0	.0	2.0	1.5	2.0
23	6.0	5.0	5.5	4.0	3.0	3.5	.5	.0	.0	2.5	1.0	2.0
24	5.0	4.5	4.5	3.5	3.0	3.5	.5	.0	.5	1.5	.5	1.0
25	4.5	3.5	4.0	3.0	2.0	2.5	.5	.5	.5	1.5	.5	1.0
26	3.5	3.0	3.5	3.5	3.0	3.0	1.0	.5	.5	2.5	1.5	2.0
27	3.0	2.0	2.5	3.5	3.0	3.0	1.0	.5	1.0	2.5	1.5	2.0
28	2.0	.5	1.5	3.0	1.0	2.5	1.0	.5	1.0	2.0	1.5	2.0
29	.5	.5	.5	1.0	.5	.5	1.0	.5	1.0	1.5	1.0	1.5
30	2.0	.5	1.0	.5	.5	.5	1.5	.5	1.0	1.0	.5	1.0
31	3.5	2.0	3.0	---	---	---	2.0	1.5	1.5	2.0	.0	1.0
MONTH	7.5	.5	4.2	5.0	.5	2.6	3.0	.0	.6	3.5	.0	1.5

SOUTHEAST ALASKA

15056030 KAKUHAN CREEK NEAR HAINES--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.5	2.0	2.5	1.0	.5	.5	.5	.0	.0	5.0	3.0	4.0
2	2.0	1.5	1.5	1.0	.5	.5	.5	.0	.0	3.5	2.5	3.5
3	2.0	1.0	2.0	1.0	.5	.5	.5	.0	.5	4.0	2.0	3.0
4	1.0	.5	1.0	1.0	.0	.5	1.0	.5	.5	4.5	3.0	3.5
5	.5	.0	.0	1.0	.5	.5	1.0	.5	1.0	3.5	2.0	3.0
6	.0	.0	.0	1.0	.5	.5	1.0	.5	.5	4.0	2.5	3.0
7	.0	.0	.0	1.5	.5	1.0	1.0	.5	1.0	4.0	3.5	3.5
8	.0	.0	.0	2.0	1.0	1.5	1.5	1.0	1.0	4.0	3.0	3.5
9	.0	.0	.0	2.0	1.5	2.0	1.5	.5	1.0	4.0	3.5	3.5
10	.0	.0	.0	2.5	1.5	2.0	1.5	.5	1.0	4.5	2.5	3.5
11	.0	.0	.0	3.0	2.0	2.5	1.5	1.0	1.5	5.0	3.5	4.5
12	.0	.0	.0	2.5	2.0	2.0	2.5	1.5	2.0	6.0	3.5	4.5
13	.0	.0	.0	3.0	1.5	2.0	2.5	1.5	2.0	5.5	4.5	5.0
14	.0	.0	.0	2.5	2.0	2.5	3.0	1.5	2.0	6.5	3.5	5.0
15	.0	.0	.0	2.0	2.0	2.0	3.0	1.5	2.0	5.5	4.5	5.0
16	.0	.0	.0	2.0	1.5	2.0	3.5	1.5	2.5	5.5	4.0	4.5
17	.0	.0	.0	2.0	1.5	1.5	3.5	2.5	3.0	6.0	4.0	4.5
18	.0	.0	.0	1.5	.0	.5	4.0	2.5	3.0	6.0	3.5	4.5
19	.0	.0	.0	.5	.0	.0	4.5	2.5	3.5	6.5	3.5	4.5
20	.0	.0	.0	.0	.0	.0	4.5	2.5	3.5	5.0	4.0	4.5
21	.5	.0	.0	.0	.0	.0	5.0	2.5	3.5	6.5	4.0	5.0
22	.5	.0	.0	.0	.0	.0	4.5	3.0	3.5	6.0	4.0	5.0
23	.0	.0	.0	.0	.0	.0	4.0	3.0	3.5	5.0	4.0	4.5
24	.0	.0	.0	.0	.0	.0	4.0	2.5	3.5	5.5	3.5	4.5
25	.0	.0	.0	.0	.0	.0	5.0	3.0	4.0	5.5	3.5	4.5
26	.0	.0	.0	.0	.0	.0	4.5	3.5	4.0	7.5	3.0	5.0
27	.5	.0	.0	.0	.0	.0	5.0	3.0	4.0	6.5	5.0	5.5
28	1.0	.5	.5	.0	.0	.0	4.0	2.5	3.5	7.5	5.0	6.0
29	---	---	---	.5	.0	.0	4.0	2.5	3.5	6.0	5.0	5.5
30	---	---	---	.5	.0	.0	5.0	3.0	4.0	6.5	4.0	5.0
31	---	---	---	.5	.0	.5	---	---	---	7.0	5.0	5.5
MONTH	2.5	.0	.3	3.0	.0	.8	5.0	.0	2.3	7.5	2.0	4.4
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.0	4.0	5.5	10.5	6.5	8.0	13.0	8.0	10.0	9.0	6.5	7.5
2	6.0	5.0	5.0	9.5	6.5	8.0	13.5	9.5	11.0	8.5	6.5	7.5
3	5.5	4.5	5.0	11.0	6.0	8.5	12.0	9.0	10.5	9.0	6.5	7.5
4	7.0	4.5	5.5	8.0	6.5	7.5	10.5	9.0	9.5	8.5	7.0	7.5
5	6.5	4.5	5.5	7.5	6.5	6.5	11.0	8.5	9.5	8.0	7.0	7.5
6	8.0	5.0	6.0	7.0	5.5	6.5	12.0	7.5	9.5	8.5	6.5	7.5
7	7.0	5.0	6.0	6.5	6.0	6.5	11.0	9.0	10.0	9.0	6.0	7.5
8	9.0	4.5	6.0	7.5	5.5	6.5	10.5	9.0	9.5	9.0	6.5	7.5
9	8.5	5.0	6.5	7.5	5.5	6.5	12.0	8.5	9.5	9.0	6.0	7.0
10	6.0	5.0	5.5	8.5	6.0	7.0	10.0	8.0	9.0	10.0	6.5	7.5
11	7.5	5.0	6.0	8.5	6.5	7.5	12.5	8.5	10.0	8.0	6.5	7.5
12	7.0	5.0	5.5	8.0	6.5	7.5	14.0	8.5	10.5	8.0	7.0	7.5
13	6.5	5.0	5.5	8.0	6.5	7.5	14.5	9.5	11.5	9.0	7.5	8.5
14	7.0	4.5	6.0	10.0	7.0	8.0	14.5	9.5	11.5	9.0	7.5	8.5
15	8.0	5.5	6.5	12.0	6.5	9.0	14.5	8.5	11.0	9.0	7.0	8.0
16	9.5	5.5	7.0	9.0	7.5	8.0	14.0	8.0	10.5	10.0	8.0	9.0
17	7.5	6.0	6.5	9.5	7.5	8.5	11.5	9.5	10.5	9.5	7.5	9.0
18	9.0	6.0	7.0	11.5	7.5	9.0	10.5	9.0	10.0	8.5	7.0	7.5
19	8.0	5.5	6.5	13.5	7.5	10.0	10.0	9.0	9.5	7.5	6.5	7.0
20	8.5	6.0	7.0	13.5	8.0	10.0	10.0	8.0	9.0	7.5	6.0	6.5
21	8.5	5.5	7.0	13.5	8.0	10.5	11.0	8.0	9.5	8.0	5.5	6.5
22	7.5	6.0	6.5	10.5	7.5	9.5	10.0	8.0	9.0	7.5	6.5	7.0
23	10.0	6.0	7.5	9.0	7.0	8.0	10.0	7.5	8.5	7.5	5.5	6.5
24	8.5	5.0	6.5	9.0	7.0	8.0	9.0	8.0	8.5	6.5	6.0	6.0
25	10.0	5.0	7.0	9.0	7.5	8.5	9.0	6.5	8.0	7.0	6.0	6.5
26	10.5	5.5	7.5	10.0	8.0	8.5	9.5	8.0	8.5	8.0	6.0	6.5
27	10.5	6.5	8.0	10.0	7.5	8.5	9.0	7.5	8.0	7.0	6.5	6.5
28	8.0	6.5	7.5	9.0	7.5	8.5	9.0	7.5	8.0	7.0	5.5	6.5
29	8.5	6.5	7.0	12.0	7.5	9.0	9.0	7.5	8.0	7.5	5.0	6.0
30	10.0	6.0	7.5	10.0	8.0	9.0	10.5	8.0	8.5	7.5	6.0	6.5
31	---	---	---	9.0	8.0	8.5	8.5	7.0	7.5	---	---	---
MONTH	10.5	4.0	6.4	13.5	5.5	8.2	14.5	6.5	9.5	10.0	5.0	7.3

SOUTHEAST ALASKA

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 current year.

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 130 ft³/s, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	34	47	29	56	21	9.8	40	144	45	57	85
2	30	28	38	58	35	14	9.7	40	157	42	44	92
3	28	111	29	218	39	12	9.5	52	206	39	36	64
4	26	59	37	77	24	13	9.8	52	151	39	32	54
5	72	43	274	57	19	11	e11	38	129	46	28	75
6	79	37	114	80	21	12	e12	28	133	75	25	64
7	134	47	66	54	16	25	e11	27	132	104	22	105
8	120	33	43	43	e14	24	e11	26	122	101	21	83
9	100	27	30	32	e13	22	e11	45	121	79	19	60
10	99	24	25	25	e12	52	15	33	128	64	17	44
11	148	41	22	22	e11	87	15	39	116	52	16	35
12	222	41	20	19	e23	38	27	47	94	45	15	47
13	222	30	e19	18	e34	30	19	54	93	57	14	283
14	159	27	e17	18	e22	34	18	56	96	52	13	218
15	120	30	e14	21	e18	25	17	57	94	48	13	107
16	81	27	e13	21	e14	22	17	58	84	44	12	126
17	62	41	e11	61	e13	18	20	62	87	38	12	152
18	48	27	e12	35	e11	16	34	63	85	33	12	120
19	42	26	e12	30	e10	e15	30	60	83	30	12	84
20	37	28	e11	22	e9.5	e13	27	57	107	29	12	94
21	42	98	e10	21	e9.5	e12	29	59	115	27	12	72
22	64	208	e10	29	e12	e11	30	69	84	31	11	76
23	90	132	e12	35	e14	e10	33	85	69	41	11	72
24	70	81	e11	23	e13	e10	34	73	70	91	11	52
25	59	55	e17	19	e12	e10	36	62	65	107	11	43
26	45	41	e33	19	e17	e12	33	57	59	165	12	35
27	37	35	e14	32	e113	10	48	67	70	93	62	33
28	31	31	15	27	50	10	61	82	81	66	27	28
29	26	26	19	19	---	10	45	92	65	65	56	26
30	27	23	e90	16	---	10	42	89	50	84	97	105
31	36	---	53	71	---	10	---	125	---	73	85	---
TOTAL	2389	1491	1138	1251	655.0	619	724.8	1794	3090	1905	827	2534
MEAN	77.1	49.7	36.7	40.4	23.4	20.0	24.2	57.9	103	61.5	26.7	84.5
MAX	222	208	274	218	113	87	61	125	206	165	97	283
MIN	26	23	10	16	9.5	10	9.5	26	50	27	11	26
MED	62	34	19	29	15	13	20	57	94	52	16	74
AC-FT	4740	2960	2260	2480	1300	1230	1440	3560	6130	3780	1640	5030
CFSM	7.63	4.92	3.63	4.00	2.32	1.98	2.39	5.73	10.2	6.08	2.64	8.36
IN.	8.80	5.49	4.19	4.61	2.41	2.28	2.67	6.61	11.38	7.02	3.05	9.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)#

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	98.9	52.3	82.2	29.5	17.1	21.4	31.0	74.2	108	70.3	44.1	105
MAX	121	54.9	128	40.4	23.4	22.7	37.8	90.6	114	79.1	61.6	128
(WY)	2000	2000	2000	2001	2001	2000	2000	2000	2000	2000	2000	1999
MIN	77.1	49.7	36.7	18.7	11.0	20.0	24.2	57.9	103	61.5	26.7	84.5
(WY)	2001	2001	2001	2000	2000	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001#

ANNUAL TOTAL	21396.4	18417.8	
ANNUAL MEAN	58.5	50.5	60.4
HIGHEST ANNUAL MEAN			70.3
LOWEST ANNUAL MEAN			50.5
HIGHEST DAILY MEAN	296	Sep 16	283
LOWEST DAILY MEAN	5.0	Mar 10	a9.5
ANNUAL SEVEN-DAY MINIMUM	6.9	Feb 11	9.8
MAXIMUM PEAK FLOW			509
MAXIMUM PEAK STAGE			29.31
INSTANTANEOUS LOW FLOW			9.5
ANNUAL RUNOFF (AC-FT)	42440	36530	43750
ANNUAL RUNOFF (CFSM)	5.79	5.00	5.98
ANNUAL RUNOFF (INCHES)	78.81	67.84	81.24
10 PERCENT EXCEEDS	126	106	128
50 PERCENT EXCEEDS	41	36	42
90 PERCENT EXCEEDS	11	12	12

See Period of Record, partial years used in monthly statistics
e Estimated
a Feb. 20-21
b From rating curve extended above 130 ft³/s

SOUTHEAST ALASKA

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1999 to current year.

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

REMARKS.--Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross sections on January 25 and March 22. Temperature cross sections found no variation. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 13.5°C, August 13-15, 2001; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 13.5°C, August 13-15; minimum, 0.0°C, on many days during the winter.

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

DATE	TIME	STREAM WIDTH (FT) (00004)	TEMPER- ATURE WATER (DEG C) (00010)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SAM- PLING METHOD, CODES (82398)
JAN						
25...	1402	39.0	2.0	19	27.62	10
25...	1403	39.0	2.0	19	27.62	10
25...	1404	39.0	2.0	19	27.62	10
25...	1405	39.0	2.0	19	27.62	10
MAR						
22...	1135	37.0	.00	11	--	10
22...	1136	37.0	.00	11	--	10
22...	1137	37.0	.00	11	--	10
22...	1138	37.0	.00	11	--	10
22...	1139	37.0	.00	11	--	10

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.0	3.0	3.5	3.5	2.5	3.0	2.5	1.0	2.0	2.0	1.0	1.5
2	4.0	3.0	3.0	3.5	2.5	3.0	2.5	2.0	2.5	2.0	.5	1.5
3	3.5	2.5	3.0	4.0	3.5	4.0	2.5	2.0	2.5	1.5	.5	1.5
4	3.5	2.0	3.0	3.5	2.0	2.5	2.5	2.0	2.5	2.0	1.5	2.0
5	6.0	3.5	4.5	3.0	2.0	2.5	3.0	2.0	2.5	2.0	1.0	1.5
6	6.5	6.0	6.5	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5
7	7.0	6.0	6.5	3.5	3.0	3.5	3.0	2.0	2.5	2.5	1.5	2.0
8	6.0	5.0	5.5	3.5	2.5	3.0	2.0	.5	1.5	2.5	2.0	2.0
9	6.0	5.5	5.5	2.5	1.5	2.0	.5	.0	.5	2.0	.5	1.5
10	6.0	5.0	5.5	2.5	1.5	2.0	1.0	.5	1.0	.5	.0	.5
11	6.5	5.0	6.0	3.5	2.5	3.0	1.5	.5	1.0	1.0	.0	.5
12	7.5	6.0	6.5	4.0	3.0	3.5	.5	.0	.0	.5	.0	.0
13	6.5	5.5	6.0	3.5	2.5	3.0	.0	.0	.0	1.0	.0	.5
14	6.0	5.0	5.5	3.5	3.0	3.5	.0	.0	.0	1.5	1.0	1.5
15	5.5	5.5	5.5	3.5	2.5	3.5	.0	.0	.0	1.5	1.5	1.5
16	5.5	5.0	5.5	3.0	2.5	2.5	.0	.0	.0	1.5	1.0	1.5
17	5.5	4.5	5.0	3.5	3.0	3.0	.0	.0	.0	2.0	1.5	1.5
18	5.0	4.0	4.5	3.0	3.0	3.0	.0	.0	.0	2.0	1.5	1.5
19	5.0	4.5	5.0	3.5	3.0	3.0	.0	.0	.0	2.0	1.5	2.0
20	5.0	4.5	4.5	4.5	3.0	3.5	.0	.0	.0	2.0	1.0	1.5
21	5.0	4.5	4.5	4.5	4.0	4.5	.0	.0	.0	2.0	1.5	2.0
22	5.5	4.5	5.0	4.5	3.5	4.0	.0	.0	.0	2.0	2.0	2.0
23	5.5	5.0	5.0	3.5	3.0	3.5	.0	.0	.0	2.0	1.0	1.5
24	5.0	4.5	5.0	3.5	3.0	3.5	.0	.0	.0	1.5	1.0	1.5
25	4.5	4.0	4.5	3.0	3.0	3.0	.0	.0	.0	2.0	1.5	1.5
26	4.5	3.5	4.0	3.0	3.0	3.0	.0	.0	.0	2.0	1.5	2.0
27	3.5	3.0	3.5	3.0	3.0	3.0	.0	.0	.0	2.0	1.5	2.0
28	3.5	2.5	3.0	3.0	1.5	2.5	1.0	.0	.5	1.5	1.0	1.5
29	2.5	1.0	2.0	2.0	1.0	1.5	1.0	.0	1.0	1.5	1.0	1.0
30	3.0	2.0	2.5	2.0	1.5	2.0	1.0	.0	.5	1.5	.5	1.0
31	3.5	3.0	3.5	---	---	---	1.5	1.0	1.0	1.5	.0	1.0
MONTH	7.5	1.0	4.6	4.5	1.0	3.0	3.0	.0	.8	2.5	.0	1.4

SOUTHEAST ALASKA

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.0	1.5	1.5	.0	.0	.0	.0	.0	.0	4.0	2.5	3.5
2	2.0	1.5	2.0	.0	.0	.0	.0	.0	.0	3.5	2.0	3.0
3	2.0	1.5	1.5	.0	.0	.0	.0	.0	.0	4.0	2.5	3.0
4	1.5	.5	1.0	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0
5	1.0	.0	.5	.0	.0	.0	.5	.0	.0	4.0	2.0	3.0
6	.5	.0	.0	.0	.0	.0	1.0	.0	.0	4.5	2.0	3.5
7	1.0	.0	.5	.0	.0	.0	1.0	.0	.5	5.0	3.0	4.0
8	.5	.0	.0	.0	.0	.0	.5	.0	.5	4.5	3.0	3.5
9	.0	.0	.0	1.0	.0	.5	2.0	.0	.5	4.5	3.0	3.5
10	.0	.0	.0	1.0	.0	.5	2.0	.0	.5	5.0	2.5	4.0
11	.0	.0	.0	1.0	.5	1.0	1.5	.0	.5	5.0	3.5	4.0
12	.0	.0	.0	1.5	.5	1.0	1.0	.0	.5	5.5	2.5	4.0
13	.0	.0	.0	2.0	1.0	1.5	3.0	.5	1.5	5.5	4.0	4.5
14	.0	.0	.0	2.0	1.0	1.5	3.0	1.0	1.5	5.5	3.0	4.5
15	.0	.0	.0	2.5	1.5	1.5	3.5	.0	1.5	6.0	3.5	4.5
16	.0	.0	.0	2.0	1.0	1.5	4.0	.0	1.5	5.5	3.0	4.5
17	.0	.0	.0	2.5	1.0	2.0	3.0	1.0	2.0	5.5	3.0	4.5
18	.0	.0	.0	1.5	.0	1.0	3.5	1.0	2.0	5.5	3.0	4.5
19	.0	.0	.0	.0	.0	.0	3.0	1.0	2.0	5.5	2.5	4.0
20	.0	.0	.0	.0	.0	.0	4.5	1.0	2.0	4.5	3.0	4.0
21	.0	.0	.0	.0	.0	.0	5.0	1.0	2.5	6.0	3.5	4.5
22	.0	.0	.0	.0	.0	.0	3.0	1.5	2.5	4.5	3.5	4.0
23	.0	.0	.0	.0	.0	.0	3.5	2.0	2.5	4.5	3.5	4.0
24	.0	.0	.0	.0	.0	.0	2.5	1.5	2.5	6.0	3.5	4.5
25	.0	.0	.0	.0	.0	.0	4.5	2.0	3.0	5.0	3.0	4.0
26	.0	.0	.0	.0	.0	.0	3.5	2.0	3.0	6.5	2.5	4.5
27	.0	.0	.0	.0	.0	.0	4.0	2.0	3.0	6.0	4.0	5.0
28	.0	.0	.0	.0	.0	.0	4.0	2.0	3.0	6.0	3.5	4.5
29	---	---	---	.0	.0	.0	4.0	2.5	3.0	5.5	3.5	4.5
30	---	---	---	.0	.0	.0	4.5	2.5	3.5	5.5	3.0	4.0
31	---	---	---	.0	.0	.0	---	---	---	6.0	4.0	5.0
MONTH	2.0	.0	.2	2.5	.0	.4	5.0	.0	1.5	6.5	2.0	4.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.0	3.5	4.5	9.5	6.5	8.0	9.0	7.5	8.5	9.0	8.5	9.0
2	4.5	4.0	4.0	9.0	7.0	8.0	10.5	8.0	9.5	9.0	8.0	8.5
3	5.0	4.0	4.5	10.0	6.5	8.5	9.5	8.5	9.0	8.5	7.5	8.0
4	5.5	4.0	4.5	9.0	7.0	7.5	9.0	8.5	8.5	9.0	8.0	8.5
5	5.5	4.0	4.5	8.0	6.5	7.5	10.0	8.0	9.0	9.0	8.5	8.5
6	6.0	4.0	5.0	8.0	7.0	7.5	11.0	7.5	9.5	8.5	8.0	8.0
7	6.0	4.0	5.0	7.5	6.5	7.0	10.5	8.5	9.5	8.5	7.5	8.0
8	7.5	3.5	5.5	8.0	6.5	7.0	10.0	8.5	9.0	8.0	7.5	8.0
9	6.5	4.0	5.0	8.5	6.5	7.5	11.0	8.5	9.5	8.0	6.0	7.0
10	5.5	4.5	5.0	9.0	6.5	7.5	10.5	8.5	9.5	8.0	6.0	7.0
11	5.5	4.5	5.0	8.5	7.0	7.5	11.0	8.5	9.5	8.0	6.5	7.5
12	5.5	4.5	5.0	8.0	7.0	7.5	13.0	8.5	10.0	8.5	7.5	8.0
13	5.5	4.5	5.0	8.0	7.5	7.5	13.5	8.5	10.5	9.5	8.5	9.0
14	7.0	4.5	5.5	9.0	7.0	8.0	13.5	8.5	10.5	8.5	8.0	8.0
15	6.5	4.5	5.5	8.5	7.5	8.0	13.5	10.0	11.0	8.0	7.0	7.5
16	8.0	4.0	6.0	8.0	7.5	8.0	13.0	8.0	10.0	9.0	8.0	8.5
17	6.5	5.0	5.5	9.5	7.5	8.5	12.0	9.5	10.5	9.5	8.5	9.0
18	7.5	5.0	6.0	9.0	8.0	8.5	11.5	10.0	10.5	9.0	8.0	8.5
19	7.0	5.0	6.0	11.0	7.0	9.0	11.5	9.5	10.5	8.0	7.5	8.0
20	7.5	5.5	6.0	11.5	8.0	9.5	11.0	9.5	10.0	8.5	7.5	8.0
21	6.5	5.0	5.5	11.0	8.5	10.0	12.0	9.0	10.5	8.0	7.0	7.5
22	6.5	5.0	5.5	10.0	9.0	9.5	11.5	9.5	10.5	8.0	7.5	8.0
23	7.5	5.0	6.0	10.0	9.0	9.0	11.0	8.5	9.5	8.0	7.0	7.5
24	8.5	5.0	7.0	9.5	8.5	9.0	10.5	9.0	10.0	7.5	7.0	7.0
25	7.5	5.0	6.5	9.0	8.0	8.5	10.0	8.0	9.5	7.5	6.5	7.0
26	9.0	4.5	7.0	9.0	8.0	8.5	11.0	9.0	10.0	7.5	6.0	7.0
27	9.5	6.0	8.0	8.5	7.5	8.0	11.0	9.5	10.0	7.5	6.5	7.0
28	8.0	6.5	7.0	8.5	7.5	8.0	10.5	9.5	10.0	7.5	6.5	7.0
29	8.0	6.0	7.0	9.0	8.0	8.5	10.0	9.5	9.5	7.0	6.0	6.5
30	8.5	6.5	7.5	9.0	8.0	8.5	10.5	9.5	10.0	7.5	7.0	7.5
31	---	---	---	8.0	7.5	8.0	10.0	9.0	9.5	---	---	---
MONTH	9.5	3.5	5.7	11.5	6.5	8.2	13.5	7.5	9.8	9.5	6.0	7.8

SOUTHEAST ALASKA

15057590 KAHTAHEENA RIVER NEAR GUSTAVUS

LOCATION.--Lat 58°25'24", long 135°35'53", in SE¹/₄ NW¹/₄ NE¹/₄ sec. 12, T. 40 S., R. 59 E. (Juneau B-5 quad), Hydrologic Unit 19010302, in Glacier Bay National Park and Preserve, 1000 ft above the mouth at Icy Passage, 4.5 mi east of Gustavus, and 44 mi west of Juneau.

DRAINAGE AREA.--10.7 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to April 2001 (discontinued).

REVISED RECORD.--WRD AK-00-1 1999

GAGE.--Water-stage recorder. Elevation of gage is 35 ft above sea level, from topographic map. Prior to April 2000, at a site 800 ft downstream at a different datum.

REMARKS.--Records fair, except for daily discharges above 150 ft³/s and estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR--Maximum discharge during period October to April, 629 ft³/s October 12, gage height 19.57; minimum discharge, 6.3 ft³/s, March 19, gage height 17.17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	38	48	35	59	28	8.9	---	---	---	---	---
2	31	31	42	63	39	18	8.6	---	---	---	---	---
3	30	113	33	273	44	15	8.1	---	---	---	---	---
4	27	60	38	76	31	13	---	---	---	---	---	---
5	70	44	333	58	25	12	---	---	---	---	---	---
6	76	39	108	80	22	14	---	---	---	---	---	---
7	132	48	61	55	20	31	---	---	---	---	---	---
8	119	36	43	44	17	32	---	---	---	---	---	---
9	94	30	33	36	15	31	---	---	---	---	---	---
10	95	26	29	30	e12	56	---	---	---	---	---	---
11	149	42	26	26	e11	97	---	---	---	---	---	---
12	252	44	22	23	26	46	---	---	---	---	---	---
13	246	32	17	22	38	38	---	---	---	---	---	---
14	157	29	e16	21	24	43	---	---	---	---	---	---
15	112	33	e15	26	e19	32	---	---	---	---	---	---
16	77	30	e14	27	e15	29	---	---	---	---	---	---
17	60	43	e13	61	e14	23	---	---	---	---	---	---
18	47	30	e15	40	e12	19	---	---	---	---	---	---
19	42	29	e14	35	e11	12	---	---	---	---	---	---
20	38	30	13	28	e9.7	e12	---	---	---	---	---	---
21	42	97	11	25	e9.7	e11	---	---	---	---	---	---
22	64	227	11	32	e13	e11	---	---	---	---	---	---
23	90	130	13	40	16	e11	---	---	---	---	---	---
24	70	79	12	30	15	e11	---	---	---	---	---	---
25	59	55	19	24	14	e10	---	---	---	---	---	---
26	46	43	36	23	19	e12	---	---	---	---	---	---
27	39	38	20	35	e120	e11	---	---	---	---	---	---
28	34	35	16	33	56	11	---	---	---	---	---	---
29	30	29	20	25	---	10	---	---	---	---	---	---
30	30	26	97	20	---	9.7	---	---	---	---	---	---
31	38	---	58	72	---	9.2	---	---	---	---	---	---
TOTAL	2430	1566	1246	1418	726.4	717.9	---	---	---	---	---	---
MEAN	78.4	52.2	40.2	45.7	25.9	23.2	---	---	---	---	---	---
MAX	252	227	333	273	120	97	---	---	---	---	---	---
MIN	27	26	11	20	9.7	9.2	---	---	---	---	---	---
AC-FT	4820	3110	2470	2810	1440	1420	---	---	---	---	---	---
CFSM	7.33	4.88	3.76	4.27	2.42	2.16	---	---	---	---	---	---
IN.	8.45	5.44	4.33	4.93	2.53	2.50	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)#

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	103	45.7	66.2	28.3	15.2	22.5	54.1	106	114	73.4	64.4	120
MAX	129	61.7	133	45.7	25.9	25.1	67.3	118	115	82.7	66.0	135
(WY)	2000	2000	2000	2001	2001	2000	1999	1999	2000	2000	2000	1999
MIN	78.4	23.1	25.2	19.0	7.70	19.2	40.9	93.5	113	64.1	62.8	105
(WY)	2001	1999	1999	1999	1999	1999	2000	2000	1999	1999	1999	2000

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

SOUTHEAST ALASKA

15057590 KAHTAHEENA RIVER NEAR GUSTAVUS--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		WATER YEARS 1999 - 2001#	
ANNUAL TOTAL	22338.2			
ANNUAL MEAN	61.0		68.7	
HIGHEST ANNUAL MEAN			74.0	2000
LOWEST ANNUAL MEAN			63.3	1999
HIGHEST DAILY MEAN	333	Dec 5	1140	Dec 27 1999
LOWEST DAILY MEAN	5.5	Mar 10	5.5	Mar 10 2000
ANNUAL SEVEN-DAY MINIMUM	7.4	Feb 11	6.8	Feb 11 1999
MAXIMUM PEAK FLOW			a1980	Dec 27 1999
MAXIMUM PEAK STAGE			b22.18	Dec 27 1999
INSTANTANEOUS LOW FLOW			5.5	Mar 10 2000
ANNUAL RUNOFF (AC-FT)	44310		49740	
ANNUAL RUNOFF (CFSM)	5.70		6.42	
ANNUAL RUNOFF (INCHES)	77.66		87.18	
10 PERCENT EXCEEDS	126		132	
50 PERCENT EXCEEDS	44		42	
90 PERCENT EXCEEDS	12		11	

- # See Period of Record, partial years used in monthly statistics
a From rating curve extended above 450 ft³/s on the basis of a slope-area measurement of peak flow at gage height 21.67 ft site and datum then in use
b Site and datum then in use

SOUTHEAST ALASKA

15057590 KAHTAHEENA RIVER NEAR GUSTAVUS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to April 2001 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1998 to April 2001.

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 sections on January 25. Temperature cross sections found no variation. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 13.5°C, August 4-6, 1999; minimum, 0.0°C, on many days during the winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 8.0 C October 12 ; minimum, 0.0°C, on many days during the winter.

WATER-QUALITY DATA

DATE	TIME	STREAM WIDTH (FT) (000004)	SAMPLE LOCATION, CROSS SECTION (FT FM R BK) (72103)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)
JAN 2001							
25...	1242	19.0	17.0	17.51	22	2.0	3.5
25...	1243	19.0	22.0	17.51	22	2.0	3.5
25...	1244	19.0	27.0	17.51	22	2.0	3.5
25...	1245	19.0	32.0	17.51	22	2.0	3.5

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	3.0	3.5	4.0	3.0	3.5	2.5	1.5	2.0	2.0	1.5	2.0
2	4.0	3.0	3.5	4.0	3.0	3.5	3.0	2.5	2.5	2.0	1.5	2.0
3	3.5	2.5	3.0	4.5	4.0	4.5	3.0	2.5	2.5	2.0	1.5	2.0
4	3.5	2.0	3.0	4.0	2.5	3.0	3.0	2.5	3.0	2.5	2.0	2.0
5	6.5	3.5	5.0	3.0	2.5	3.0	3.5	2.5	3.0	2.5	2.0	2.0
6	7.0	6.5	7.0	3.5	3.0	3.5	3.5	3.5	3.5	2.0	2.0	2.0
7	7.5	6.5	7.0	4.0	3.5	4.0	3.5	2.5	3.0	3.0	2.0	2.5
8	6.5	5.5	6.0	4.0	3.0	3.5	2.5	1.0	2.0	3.0	2.5	2.5
9	6.5	6.0	6.0	3.0	2.0	2.5	1.0	.5	.5	2.5	1.0	2.0
10	6.5	5.5	6.0	2.5	2.0	2.0	1.5	.5	1.0	1.0	.5	.5
11	7.0	5.5	6.5	4.0	2.5	3.5	1.5	1.0	1.5	1.5	.5	1.0
12	8.0	6.5	7.0	4.0	3.5	4.0	1.0	.0	.5	1.0	.5	.5
13	7.0	6.5	6.5	4.0	3.0	3.5	.5	.0	.0	1.5	1.0	1.0
14	6.5	6.0	6.0	4.0	3.5	4.0	.0	.0	.0	2.0	1.0	1.5
15	6.5	6.0	6.0	4.0	3.0	4.0	.0	.0	.0	2.0	2.0	2.0
16	6.0	5.5	6.0	3.5	3.0	3.0	.0	.0	.0	2.0	2.0	2.0
17	6.0	5.0	5.5	4.0	3.5	3.5	.0	.0	.0	2.5	2.0	2.0
18	5.5	4.5	5.0	3.5	3.0	3.5	.0	.0	.0	2.5	2.0	2.5
19	5.5	5.0	5.5	3.5	3.0	3.5	.0	.0	.0	2.5	2.0	2.5
20	5.5	5.0	5.0	4.5	3.5	4.0	.5	.0	.5	2.5	1.5	2.0
21	5.0	5.0	5.0	5.0	4.5	5.0	.5	.0	.0	2.5	2.5	2.5
22	6.0	5.0	5.5	5.0	4.0	4.5	.0	.0	.0	3.0	2.5	2.5
23	6.0	5.5	5.5	4.0	3.5	4.0	.5	.0	.0	2.5	1.5	2.0
24	5.5	5.0	5.5	4.0	3.5	4.0	.5	.0	.5	2.0	1.5	1.5
25	5.0	4.5	5.0	3.5	3.5	3.5	.5	.0	.5	2.0	2.0	2.0
26	5.0	4.0	4.5	3.5	3.0	3.5	.5	.0	.0	2.5	2.0	2.0
27	4.0	3.5	3.5	3.5	3.5	3.5	.5	.0	.5	2.5	2.5	2.5
28	4.0	3.0	3.5	3.5	2.0	3.0	1.0	.5	.5	2.5	1.5	2.0
29	3.0	1.5	2.0	2.0	1.5	1.5	1.5	.5	1.0	2.0	1.5	1.5
30	3.5	2.0	2.5	2.0	2.0	2.0	1.5	.0	.5	2.0	1.5	1.5
31	4.0	3.5	4.0	---	---	---	1.5	1.5	1.5	2.0	1.0	1.5
MONTH	8.0	1.5	5.0	5.0	1.5	3.5	3.5	.0	1.0	3.0	.5	1.9

SOUTHEAST ALASKA

15057590 KAHTAHEENA RIVER NEAR GUSTAVUS--Continued

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

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

SOUTHEAST ALASKA

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.--45 years (water years 1917-25, 1928-33, 1947-59, 1985-2001), 444 ft³/s, 165.2 in/yr, 321,700 acre-ft/yr. Mean discharge for water years 1985-2001 adjusted for change in contents of Swan Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 132,200 acre-ft, November 29, 1987, elevation, 334.2 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, 131,960 acre-ft, September 23, 2001, elevation, 334.00 ft; minimum contents observed, 77,556 acre-ft, April 16, 2001, elevation, 296.4 ft. Maximum release from reservoir (mean daily, not adjusted for changes in storage), 2,213 ft³/s, September 23, 2001; minimum release, undetermined.

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

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
SEP 30	329.0	124,700	
OCT 31	328.6	124,140	-560
NOV 30	329.7	125,740	+1,600
DEC 31	317.7	108,380	-17,360
JAN 31	319.1	110,400	+2,020
FEB 28	305.6	90,860	-19,540
MAR 31	300.3	83,200	-7,660
APR 30	301.6	85,080	+1,880
MAY 31	302.5	86,380	+1,300
JUN 30	317.6	108,230	+21,850
JUL 31	321.3	113,580	+5,350
AUG 31	322.5	115,320	+1,740
SEP 30	333.9	131,880	+16,560
		CAL YR 2000	-8,390
		WTR YR 2001	+7,180

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

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	373	0.2	373.2	364
NOV	398	0.1	398.1	425
DEC	498	0.1	498.1	216
JAN	473	0	473	506
FEB	522	0	522	170
MAR	309	0	309	184
APR	309	0	309	341
MAY	528	0	528	549
JUN	337	0	337	704
JUL	401	0	401	488
AUG	431	0	431	459
SEP	681	282	963	1241
CAL YR 2000	431	0.03	431	419
WTR YR 2001	438	23.2	461	471

SOUTHEAST ALASKA

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)
*Sep 23	0230	*3280	*4.16	No other peak greater than base discharge			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	709	327	614	443	686	233	217	723	993	373	184	990
2	550	378	914	923	843	215	192	618	839	344	200	1640
3	453	669	902	1600	912	211	172	792	682	332	207	1910
4	384	681	687	1620	713	201	175	731	570	347	205	1920
5	325	560	588	1730	538	176	184	608	504	412	210	1490
6	280	466	781	1410	417	163	170	487	477	538	219	1410
7	328	466	698	1010	336	181	155	485	463	933	225	1080
8	383	400	539	880	286	182	145	465	448	1010	217	771
9	389	335	422	827	245	169	140	426	458	1040	203	590
10	370	288	337	685	216	184	134	375	462	902	188	460
11	345	247	283	539	191	357	129	479	443	708	175	370
12	361	294	238	418	170	447	131	502	416	567	163	317
13	451	292	210	339	160	381	132	520	402	559	152	279
14	442	247	183	288	167	318	130	511	427	621	143	244
15	798	218	160	261	160	285	125	473	448	580	136	218
16	766	199	155	316	148	307	124	478	448	488	130	196
17	656	246	137	359	136	328	130	609	442	454	125	183
18	572	291	198	368	127	286	149	673	418	427	122	196
19	565	288	180	396	118	266	167	691	415	381	120	236
20	554	282	150	386	109	243	174	569	575	342	146	346
21	499	297	132	380	103	214	180	507	720	321	342	500
22	779	690	121	324	96	190	188	656	691	311	393	1920
23	844	1230	110	291	90	170	319	773	618	296	380	2910
24	680	1500	104	261	86	155	717	689	594	280	435	1840
25	525	1470	208	241	83	150	635	576	578	261	612	1410
26	418	1190	329	223	80	158	572	499	520	241	1080	1140
27	348	911	371	295	139	239	652	463	471	225	1570	1000
28	337	683	305	343	261	242	799	448	462	215	1290	988
29	310	523	283	305	---	222	771	460	449	204	869	1030
30	289	446	318	274	---	219	829	469	413	193	670	1410
31	305	---	397	400	---	248	---	795	---	185	664	---
TOTAL	15015	16114	11054	18135	7616	7340	8737	17550	15846	14090	11775	28994
MEAN	484	537	357	585	272	237	291	566	528	455	380	966
MAX	844	1500	914	1730	912	447	829	795	993	1040	1570	2910
MIN	280	199	104	223	80	150	124	375	402	185	120	183
MED	442	389	283	380	164	219	173	511	462	373	207	989
AC-FT	29780	31960	21930	35970	15110	14560	17330	34810	31430	27950	23360	57510
CFSM	15.1	16.7	11.1	18.2	8.47	7.38	9.07	17.6	16.5	14.2	11.8	30.1
IN.	17.40	18.67	12.81	21.02	8.83	8.51	10.13	20.34	18.36	16.33	13.65	33.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2001, BY WATER YEAR (WY)#

	1915	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
MEAN	699	567	421	350	318	264	355	504	471	335	332	441																																																																											
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1915 - 2001#	
ANNUAL TOTAL	177723		172266			
ANNUAL MEAN	486		472			
HIGHEST ANNUAL MEAN					422	
LOWEST ANNUAL MEAN					556	1992
HIGHEST DAILY MEAN	3040	Aug 22	2910	Sep 23	302	1978
LOWEST DAILY MEAN	89	Jan 26	80	Feb 26	4410	Oct 15 1961
ANNUAL SEVEN-DAY MINIMUM	100	Jan 20	92	Feb 20	20	Sep 9 1928
MAXIMUM PEAK FLOW			3280	Sep 23	23	Sep 5 1928
MAXIMUM PEAK STAGE			4.16	Sep 23	a5400	Oct 15 1961
INSTANTANEOUS LOW FLOW			76	Sep 23	b5.85	Oct 15 1961
ANNUAL RUNOFF (AC-FT)	352500		341700	Feb 26	20	Sep 9 1928
ANNUAL RUNOFF (CFSM)	15.1		14.7		306000	
ANNUAL RUNOFF (INCHES)	205.96		199.64		13.2	
10 PERCENT EXCEEDS	896		906		178.79	
50 PERCENT EXCEEDS	406		375		864	
90 PERCENT EXCEEDS	179		150		319	
					98	

See Period of Record
a From rating curve extended above 3,600 ft³/s
b At site then in use

SOUTHEAST ALASKA

15081495 NORTH FORK STANEY CREEK NEAR KLAWOCK

LOCATION.--Lat 55°43'58", long 132°58'02", in NE¹/₄ NE¹/₄ sec. 10, T. 71 S., R. 81 E. (Craig C-4 quad), Hydrologic Unit 19010103, on Prince of Wales Island, in Tongass National Forest, on left bank, immediately upstream from bridge on Forest Road 2050, 6 mi upstream from Middle Fork Staney Creek and 12.4 mi north of Klawock.

DRAINAGE AREA.--3.07 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1990 to current year.

REVISED RECORDS.--WDR AK-92-1: 1991. WDR AK-00-1: 1990(M), 1991-92(P), 1993, 1994-99(P).

GAGE.--Water-stage recorder. Elevation of gage is 600 ft above sea level, from topographic map.

REMARKS.--Records good except for those above 200 ft³/s which are fair and estimated daily discharges which are poor.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 350 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 30	0015	*612	*5.19	No other peak greater than base discharge			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	12	79	35	38	15	5.9	14	24	3.8	2.0	62
2	8.4	24	54	96	35	13	4.3	18	16	3.4	2.1	48
3	12	61	2.4	132	26	11	3.6	48	10	3.1	1.8	54
4	7.7	5.8	3.2	44	10	8.5	7.2	17	9.4	4.8	1.6	25
5	34	11	104	96	6.2	6.1	7.2	8.7	11	8.7	1.4	51
6	56	25	27	38	5.0	6.9	6.0	5.9	12	32	1.4	19
7	44	19	4.9	24	4.3	24	5.7	15	11	20	1.3	9.9
8	19	5.1	2.8	40	3.9	9.7	5.2	47	10	19	1.2	9.3
9	16	1.9	1.9	19	3.5	12	5.6	16	14	19	1.2	5.4
10	8.5	1.3	1.4	9.4	e3.0	87	5.6	13	13	8.4	1.1	3.9
11	46	3.0	1.2	6.0	e2.8	141	6.0	22	8.7	5.4	1.0	4.0
12	40	22	e1.1	4.5	e2.5	19	8.2	19	7.0	5.3	1.0	8.3
13	20	4.3	e.95	4.6	e14	10	6.2	14	8.4	15	1.0	6.4
14	9.8	1.8	e.90	4.6	e12	6.4	6.3	14	14	11	.98	4.1
15	47	1.3	e.85	28	e15	7.2	7.1	15	11	7.0	.97	3.5
16	26	2.8	e.80	59	e4.4	7.9	9.2	18	9.5	7.2	.97	11
17	9.3	40	e.75	24	e3.2	13	18	21	8.1	9.1	.97	41
18	6.5	2.3	e.85	23	e2.9	9.5	18	24	6.9	4.7	1.7	89
19	14	2.6	e1.0	15	e2.7	10	13	19	7.1	3.5	2.1	91
20	84	1.3	e.90	16	e2.5	4.9	10	13	18	2.8	3.9	36
21	13	.83	e.80	24	e2.4	e3.4	9.2	19	21	2.4	45	45
22	46	41	e.70	19	e2.2	2.5	10	41	13	2.2	8.0	126
23	34	48	e.55	26	e2.1	e2.2	43	14	10	2.4	10	40
24	8.0	29	e.60	25	e2.0	2.5	30	10	17	2.4	15	14
25	4.8	21	22	13	2.2	12	19	8.0	13	2.1	24	14
26	3.3	8.3	6.6	7.7	5.2	10	38	8.8	8.8	2.0	30	12
27	5.7	11	5.5	49	80	11	48	11	5.6	1.9	88	17
28	8.4	4.4	5.2	26	22	9.8	15	11	4.9	1.9	10	14
29	3.3	1.4	12	9.8	---	8.5	20	12	3.8	1.8	10	126
30	9.2	1.4	24	7.2	---	9.2	19	14	3.3	1.7	11	218
31	27	---	8.6	87	---	9.4	---	29	---	1.7	14	---
TOTAL	689.9	413.83	376.45	1011.8	315.0	502.6	409.5	559.4	329.5	215.7	294.69	1207.8
MEAN	22.3	13.8	12.1	32.6	11.2	16.2	13.6	18.0	11.0	6.96	9.51	40.3
MAX	84	61	104	132	80	141	48	48	24	32	88	218
MIN	3.3	.83	.55	4.5	2.0	2.2	3.6	5.9	3.3	1.7	.97	3.5
AC-FT	1370	821	747	2010	625	997	812	1110	654	428	585	2400
CFSM	7.25	4.49	3.96	10.6	3.66	5.28	4.45	5.88	3.58	2.27	3.10	13.1
IN.	8.36	5.01	4.56	12.26	3.82	6.09	4.96	6.78	3.99	2.61	3.57	14.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)#

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	34.3	24.1	27.7	26.7	20.4	16.7	17.8	14.4	9.03	5.94	9.80	25.2
MAX	61.1	40.2	49.1	48.9	51.7	35.1	29.7	33.8	21.0	11.8	17.9	45.1
(WY)	2000	1994	1991	1997	1993	1994	1997	1999	1999	1997	1998	1994
MIN	18.5	12.9	11.5	12.0	7.51	7.38	7.76	3.87	1.59	1.46	1.80	10.4
(WY)	1993	1997	1997	1996	2000	1991	1998	1998	1993	1993	1993	1993

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

SOUTHEAST ALASKA

15081495 NORTH FORK STANEY CREEK NEAR KLAWOCK--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1990 - 2001#	
ANNUAL TOTAL	5978.04		6326.17			
ANNUAL MEAN	16.3		17.3		19.5	
HIGHEST ANNUAL MEAN					24.7	
LOWEST ANNUAL MEAN					15.4	
HIGHEST DAILY MEAN	218	Aug 21	218	Sep 30	793	Oct 26 1993
LOWEST DAILY MEAN	.55	Dec 23	.55	Dec 23	.38	Jul 21 1993
ANNUAL SEVEN-DAY MINIMUM	.77	Dec 18	.77	Dec 18	.49	Jul 15 1993
MAXIMUM PEAK FLOW			612	Sep 30	a1110	Jan 29 1993
MAXIMUM PEAK STAGE			5.19	Sep 30	6.34	Jan 29 1993
INSTANTANEOUS LOW FLOW					b.37	Jul 20 1993
ANNUAL RUNOFF (AC-FT)	11860		12550		14100	
ANNUAL RUNOFF (CFSM)	5.32		5.65		6.34	
ANNUAL RUNOFF (INCHES)	72.44		76.66		86.11	
10 PERCENT EXCEEDS	39		43		43	
50 PERCENT EXCEEDS	9.6		9.7		9.2	
90 PERCENT EXCEEDS	1.6		1.7		2.2	

See Period of Record; partial years used in monthly summary statistics
a From rating extended above 140 ft³/s
b Jul. 20 and 21, 1993

SOUTHEAST ALASKA

15081495 NORTH FORK STANEY CREEK NEAR KLAWOCK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1991 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1990 to current year.

INSTRUMENTATION.--Electronic water temperature recorder since November 20, 1990, set for 2-hour recording interval. New water temperature recorder installed April 11, 1996 with a 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 27. 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 recorded, 18.5° C, June 30, 1992, July 16, 1993, and July 2-4, 1998; minimum, 0.0°C, on many days during winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE.--Maximum, 17.0°C August 13; minimum, 0.0°C, on many days during winter.

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

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)
AUG							
27...	1332	28.5	1.5	2.64	45	10.5	14.0
27...	1333	28.5	6.5	2.64	45	10.5	14.0
27...	1334	28.5	11.5	2.64	45	10.5	14.0
27...	1335	28.5	16.5	2.64	45	10.5	14.0
27...	1336	28.5	21.5	2.64	45	10.5	14.0
27...	1337	28.5	26.5	2.64	45	10.5	14.0

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	6.0	7.0	5.0	4.5	4.5	4.0	3.5	4.0	2.0	1.5	2.0
2	6.5	5.0	6.0	6.5	5.0	5.5	4.5	4.0	4.0	3.0	2.0	2.5
3	7.0	6.0	6.5	6.5	5.5	6.5	4.0	3.5	3.5	2.5	2.5	2.5
4	7.5	6.5	7.0	5.5	4.5	5.0	3.5	3.0	3.5	2.5	2.0	2.5
5	7.5	7.0	7.0	5.5	4.5	5.0	4.5	3.5	4.0	3.0	2.5	2.5
6	8.0	7.5	7.5	5.5	5.0	5.0	4.5	3.0	4.0	2.5	2.0	2.5
7	8.0	7.5	8.0	5.0	4.5	5.0	3.0	2.5	2.5	3.0	2.0	2.5
8	7.5	6.5	7.0	5.0	4.0	4.5	2.5	1.5	2.5	3.0	2.5	2.5
9	7.5	6.5	7.0	4.0	3.0	3.5	1.5	.5	1.0	2.5	1.5	2.0
10	7.0	6.5	7.0	3.0	2.5	2.5	.5	.0	.5	1.5	1.0	1.5
11	8.0	7.0	7.5	4.0	2.5	3.0	.5	.0	.0	1.0	.0	.5
12	8.5	7.5	8.0	4.5	4.0	4.5	.0	.0	.0	.5	.0	.0
13	8.0	7.0	7.5	4.0	3.0	4.0	.0	.0	.0	1.0	.5	.5
14	7.0	6.5	7.0	3.5	3.0	3.0	.0	.0	.0	1.0	.5	1.0
15	7.5	7.0	7.0	3.5	3.0	3.5	.0	.0	.0	1.5	1.0	1.5
16	7.0	6.0	6.5	4.5	3.5	4.0	.0	.0	.0	2.0	1.5	2.0
17	7.0	6.5	7.0	4.5	3.0	4.0	.0	.0	.0	2.5	2.0	2.5
18	7.0	6.5	7.0	3.5	2.5	3.0	.0	.0	.0	3.0	2.0	2.5
19	6.5	6.0	6.0	4.5	3.5	4.0	.0	.0	.0	2.0	2.0	2.0
20	6.0	6.0	6.0	5.0	4.5	5.0	.0	.0	.0	2.5	2.0	2.5
21	6.0	5.0	5.5	5.5	5.0	5.5	.0	.0	.0	2.5	2.0	2.0
22	7.0	6.0	6.5	6.0	5.5	5.5	.0	.0	.0	2.5	2.0	2.5
23	7.0	6.0	6.5	5.5	4.5	5.0	.0	.0	.0	3.0	2.5	3.0
24	6.0	5.5	6.0	4.5	4.5	4.5	.0	.0	.0	3.5	3.0	3.0
25	5.5	4.5	4.5	4.5	4.0	4.5	.0	.0	.0	3.5	3.0	3.0
26	5.0	4.0	4.5	4.0	3.5	4.0	.5	.0	.0	3.0	2.5	3.0
27	5.0	5.0	5.0	3.5	3.0	3.5	1.0	.5	.5	3.0	3.0	3.0
28	5.5	5.0	5.5	3.0	2.0	2.5	1.0	1.0	1.0	3.0	1.5	2.0
29	5.0	3.5	4.5	2.5	2.0	2.5	1.5	1.0	1.5	1.5	1.0	1.5
30	4.5	3.5	4.0	3.5	2.5	2.5	2.0	1.5	2.0	1.5	.5	1.0
31	5.0	4.5	5.0	---	---	---	1.5	1.0	1.5	2.0	1.0	1.5
MONTH	8.5	3.5	6.4	6.5	2.0	4.2	4.5	.0	1.2	3.5	.0	2.0

SOUTHEAST ALASKA

15081495 NORTH FORK STANEY CREEK NEAR KLAWOCK--Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.0	2.5	.5	.5	.5	2.0	.0	1.0	5.5	3.0	4.0
2	3.0	2.5	2.5	2.0	.5	1.0	2.5	.0	1.0	4.0	3.0	3.5
3	2.5	1.5	2.0	1.0	.5	1.0	3.0	.0	1.5	4.0	3.0	3.5
4	1.5	.5	1.0	2.0	.5	1.0	2.5	.5	1.5	5.0	3.0	4.0
5	1.0	.5	.5	1.5	.5	1.0	3.0	.5	1.5	5.5	3.0	4.0
6	.5	.0	.0	2.0	1.0	1.5	4.0	1.0	2.0	5.0	3.0	4.0
7	1.0	.0	.5	2.0	1.0	1.5	3.5	.5	2.0	4.5	3.5	4.0
8	1.0	.5	.5	2.0	1.0	1.5	2.5	1.0	1.5	3.5	3.0	3.0
9	.5	.0	.5	2.0	1.0	1.5	3.5	1.0	2.5	5.0	2.5	3.5
10	.5	.0	.0	1.5	1.0	1.5	4.5	1.0	2.5	5.0	3.5	4.0
11	.0	.0	.0	2.0	1.5	1.5	3.0	1.5	2.5	5.0	3.5	4.0
12	.0	.0	.0	2.5	1.5	2.0	3.5	1.5	2.5	5.5	3.5	4.5
13	.0	.0	.0	2.5	1.0	2.0	3.5	1.0	2.5	6.0	3.5	4.5
14	.0	.0	.0	2.0	.5	1.5	5.0	2.0	3.5	6.0	4.0	5.0
15	.0	.0	.0	3.0	1.5	2.0	5.0	1.5	3.0	5.5	3.5	4.5
16	.0	.0	.0	2.5	1.5	2.0	4.0	1.5	3.0	5.0	3.5	4.5
17	.0	.0	.0	3.0	1.5	2.5	3.0	2.0	2.5	5.5	3.5	4.5
18	.0	.0	.0	2.5	2.0	2.0	4.0	2.0	2.5	4.5	3.5	4.0
19	.0	.0	.0	2.0	1.0	1.5	4.5	2.0	3.0	6.0	3.5	4.5
20	.5	.0	.0	1.0	.0	.5	4.5	1.5	3.0	4.5	3.5	4.0
21	.5	.0	.0	.5	.0	.0	5.5	2.0	3.5	6.0	4.0	5.0
22	.5	.0	.0	.5	.0	.0	4.5	3.0	3.5	6.5	4.5	5.5
23	.5	.0	.0	.5	.0	.0	3.0	2.0	2.5	6.5	4.0	5.0
24	.0	.0	.0	1.0	.0	.5	3.5	2.0	3.0	6.5	4.0	5.5
25	.0	.0	.0	1.0	.5	.5	5.0	2.5	3.5	8.0	4.0	6.0
26	.5	.0	.0	1.5	.0	.5	4.5	3.0	3.5	7.0	5.0	6.0
27	.5	.0	.0	2.0	.5	1.0	4.0	3.0	3.5	7.0	5.0	6.0
28	.5	.0	.5	1.0	.0	.5	4.5	2.5	3.5	6.5	4.5	5.5
29	---	---	---	2.0	.0	1.0	4.0	3.0	3.5	8.0	5.0	6.5
30	---	---	---	.5	.0	.5	4.5	3.0	3.5	6.5	5.0	5.5
31	---	---	---	2.0	.0	1.0	---	---	---	6.5	5.5	5.5
MONTH	3.0	.0	.4	3.0	.0	1.1	5.5	.0	2.6	8.0	2.5	4.6

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	5.0	5.5	12.5	10.5	11.5	12.5	11.5	12.0	9.5	9.5	9.5
2	6.5	5.0	5.5	12.0	10.0	11.0	13.5	11.5	12.5	9.5	8.5	9.0
3	7.0	5.5	6.0	12.5	10.5	11.0	14.0	10.5	12.5	9.5	8.5	9.0
4	7.5	5.5	6.5	11.0	10.5	11.0	13.0	12.0	12.5	10.0	9.0	9.5
5	7.5	5.5	6.5	10.5	9.0	9.5	14.0	11.5	12.5	9.5	9.0	9.5
6	7.5	5.5	6.5	9.5	8.5	9.0	14.0	12.0	13.0	10.0	8.5	9.5
7	8.0	6.0	7.0	9.5	8.5	9.0	14.5	11.0	13.0	9.5	9.0	9.0
8	9.0	6.0	7.5	9.0	8.5	8.5	16.0	11.5	14.0	10.5	8.5	9.5
9	7.5	6.5	7.0	9.5	8.0	9.0	16.0	12.0	14.0	10.0	8.5	9.5
10	8.0	6.0	7.0	10.0	8.5	9.0	16.0	12.0	14.5	10.0	7.5	9.0
11	7.5	6.5	7.0	10.5	8.5	9.5	15.0	13.0	14.0	9.5	8.5	9.0
12	9.0	6.5	7.5	9.5	9.0	9.5	16.0	12.0	14.5	9.5	9.0	9.0
13	8.0	7.0	7.5	9.0	8.5	9.0	17.0	12.5	15.0	10.5	9.0	9.5
14	9.0	6.5	7.5	9.5	8.5	9.0	15.5	14.0	14.5	10.5	9.0	10.0
15	9.0	7.0	8.0	11.0	8.5	10.0	16.5	13.5	15.0	11.5	10.0	10.5
16	8.0	7.0	7.5	10.5	9.5	10.0	16.5	13.0	15.0	11.5	10.5	11.0
17	8.5	7.0	7.5	11.0	9.0	10.0	15.0	14.0	14.5	11.5	10.5	11.0
18	11.0	7.5	9.0	12.5	9.5	11.0	14.5	13.0	13.5	10.5	9.5	10.0
19	10.0	8.5	9.0	14.5	10.5	12.5	14.0	12.5	13.5	9.5	9.0	9.5
20	9.5	8.0	9.0	15.5	11.5	13.5	13.0	11.0	12.5	9.5	9.0	9.0
21	9.0	7.5	8.0	16.5	12.5	14.5	11.0	10.5	11.0	9.5	9.0	9.0
22	9.5	7.5	8.5	14.5	13.0	14.0	11.5	10.5	11.0	9.5	9.0	9.0
23	8.5	8.0	8.0	13.0	11.5	12.5	11.5	10.0	11.0	9.0	8.0	8.5
24	9.0	7.5	8.5	12.5	11.0	12.0	10.5	10.0	10.0	8.5	8.0	8.5
25	9.0	8.0	8.5	13.5	11.0	12.0	10.5	10.0	10.0	9.0	8.0	8.5
26	11.5	7.5	9.5	14.0	11.5	12.5	10.5	9.5	10.0	8.5	8.0	8.0
27	11.0	8.5	10.0	13.0	12.0	12.5	11.0	10.0	10.5	8.5	8.0	8.5
28	11.0	9.5	10.0	13.0	11.5	12.0	11.5	10.0	10.5	8.5	8.0	8.5
29	11.5	9.5	10.5	13.0	11.5	12.0	11.0	10.5	10.5	8.0	7.5	8.0
30	13.0	9.0	11.0	13.0	11.5	12.5	11.5	10.0	10.5	8.0	7.5	8.0
31	---	---	---	12.5	12.0	12.0	10.5	9.5	10.0	---	---	---
MONTH	13.0	5.0	7.9	16.5	8.0	11.0	17.0	9.5	12.5	11.5	7.5	9.2

SOUTHEAST ALASKA

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)
*Sep 30	0230	*11100	*15.00	No other peak greater than base discharge			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	478	481	2040	647	864	376	219	286	338	51	31	1380
2	221	391	1990	1530	492	251	135	372	371	55	35	1390
3	277	1160	342	2920	589	240	99	1290	156	51	33	847
4	219	341	208	1030	246	223	162	489	129	76	29	500
5	281	267	1540	1730	144	151	208	237	118	116	26	708
6	1060	624	1010	949	107	177	154	141	171	314	24	523
7	875	607	246	493	94	433	124	309	164	278	25	188
8	496	357	143	1030	96	240	108	1090	138	220	23	177
9	483	209	102	448	91	176	121	412	128	296	20	114
10	275	157	e71	219	76	1520	105	211	178	168	18	86
11	680	137	e58	140	e70	3300	101	304	125	116	16	76
12	594	866	e55	101	e66	441	128	299	90	88	15	109
13	609	345	e48	100	e320	228	113	243	83	169	14	124
14	281	192	e42	98	e480	144	91	182	151	175	13	86
15	1150	146	e36	264	142	132	95	185	148	126	12	69
16	589	150	e40	944	e82	154	102	238	128	98	12	62
17	293	1400	e60	470	e65	223	187	355	96	168	12	75
18	205	344	e360	406	e46	172	235	347	82	100	16	549
19	228	287	216	363	e44	232	217	348	77	71	43	1260
20	1270	226	105	221	e40	141	134	233	102	58	46	450
21	484	207	e80	610	e36	e69	123	203	197	50	474	266
22	1140	1730	e70	486	e34	e65	119	564	197	44	183	1350
23	876	2100	e60	642	e30	e55	556	256	155	44	103	608
24	407	1270	e60	570	e25	60	810	159	161	49	142	250
25	230	763	683	242	51	170	421	121	179	43	224	344
26	170	558	320	157	117	284	391	105	149	39	349	198
27	150	593	191	1190	2170	248	992	122	88	37	1610	282
28	201	403	187	821	682	325	338	113	75	34	284	196
29	150	199	325	260	---	329	320	115	66	33	140	1840
30	390	140	675	214	---	507	433	121	56	30	147	5200
31	904	---	374	2810	---	528	---	431	---	29	179	---
TOTAL	15666	16650	11737	22105	7299	11594	7341	9881	4296	3226	4298	19307
MEAN	505	555	379	713	261	374	245	319	143	104	139	644
MAX	1270	2100	2040	2920	2170	3300	992	1290	371	314	1610	5200
MIN	150	137	36	98	25	55	91	105	56	29	12	62
AC-FT	31070	33030	23280	43850	14480	23000	14560	19600	8520	6400	8530	38300
CFSM	9.99	11.0	7.48	14.1	5.15	7.39	4.84	6.30	2.83	2.06	2.74	12.7
IN.	11.52	12.24	8.63	16.25	5.37	8.52	5.40	7.26	3.16	2.37	3.16	14.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)#

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	688	581	622	464	407	359	319	230	121	97.6	184	448
MAX	1123	996	1270	782	983	565	559	558	252	200	384	783
(WY)	2000	1992	1992	1992	1991	1994	1997	1999	1999	1997	1998	1994
MIN	443	201	267	240	152	204	173	79.0	26.5	22.1	26.6	166
(WY)	1997	1997	1997	1998	1994	1998	1993	1998	1993	1993	1993	1995

See Period of Record
e Estimated

SOUTHEAST ALASKA

15081497 STANEY CREEK NEAR KLAWOCK--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1990 - 2001#	
ANNUAL TOTAL	131906		133400			
ANNUAL MEAN	360		365		377	
HIGHEST ANNUAL MEAN					506	1992
LOWEST ANNUAL MEAN					283	1995
HIGHEST DAILY MEAN	3530	Aug 21	5200	Sep 30	14900	Oct 26 1993
LOWEST DAILY MEAN	25	Aug 14	a12	Aug 15	4.4	Jul 21 1993
ANNUAL SEVEN-DAY MINIMUM	31	Aug 8	13	Aug 11	6.0	Jul 15 1993
MAXIMUM PEAK FLOW			11100	Sep 30	b19800	Oct 26 1993
MAXIMUM PEAK STAGE			15.00	Sep 30	17.20	Oct 26 1993
INSTANTANEOUS LOW FLOW			11	Aug 17	4.0	Jul 21 1993
ANNUAL RUNOFF (AC-FT)	261600		264600		272800	
ANNUAL RUNOFF (CFSM)	7.12		7.22		7.44	
ANNUAL RUNOFF (INCHES)	96.97		98.07		101.12	
10 PERCENT EXCEEDS	880		887		902	
50 PERCENT EXCEEDS	191		196		173	
90 PERCENT EXCEEDS	61		44		37	

See Period of Record
a Aug. 15-17
b From rating curve extended above 3300 ft³/s

SOUTHEAST ALASKA

15081497 STANEY CREEK NEAR KLAWOCK--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	4.0	3.0	3.5	2.0	1.0	1.5	3.5	1.5	2.5	7.5	5.0	6.0
2	4.0	3.5	3.5	2.5	1.5	2.0	4.0	1.5	2.5	6.0	5.0	5.5
3	3.5	2.5	3.0	2.5	1.5	2.0	4.0	1.5	3.0	6.0	4.5	5.0
4	---	---	---	3.0	1.5	2.0	4.0	2.5	3.0	6.5	4.5	5.5
5	---	---	---	2.5	1.0	2.0	4.0	2.0	3.0	6.5	4.5	5.5
6	---	---	---	3.0	2.0	2.5	5.0	2.0	3.5	6.0	4.0	5.0
7	---	---	---	3.0	2.0	2.5	4.5	2.0	3.5	6.0	5.0	5.5
8	---	---	---	3.0	1.5	2.5	3.5	2.0	3.0	5.0	4.5	4.5
9	---	---	---	3.0	2.0	2.5	5.0	2.0	3.5	6.5	4.0	5.0
10	---	---	---	3.0	2.5	2.5	5.5	2.5	4.0	7.5	5.0	6.0
11	---	---	---	3.0	2.5	3.0	4.0	3.0	3.5	7.0	5.5	6.5
12	.5	---	---	3.5	3.0	3.0	5.5	3.0	4.0	7.0	5.5	6.0
13	.5	.0	.0	3.5	2.0	3.0	5.0	2.5	4.0	8.0	5.0	6.5
14	1.5	.0	.5	3.5	1.0	2.5	7.5	3.5	5.0	8.0	6.0	7.0
15	2.0	1.0	1.5	4.0	2.5	3.5	7.0	3.0	5.0	8.0	6.0	7.0
16	---	---	---	3.5	---	---	6.0	3.5	5.0	7.5	5.5	6.5
17	---	---	---	---	---	---	5.5	4.5	5.0	7.5	5.0	6.5
18	---	---	---	---	---	---	6.0	3.5	5.0	6.5	5.5	6.0
19	---	---	---	---	---	---	6.5	3.5	5.0	8.0	5.0	6.5
20	---	---	---	---	---	---	7.0	---	---	6.0	5.0	5.5
21	---	---	---	---	---	---	7.5	3.5	5.5	8.5	5.5	7.0
22	---	---	---	---	---	---	7.0	4.5	5.5	9.0	6.5	7.5
23	---	---	---	---	---	---	6.0	4.0	5.0	8.5	6.0	7.0
24	---	---	---	---	---	---	5.0	3.5	4.5	8.0	6.0	7.0
25	---	---	---	3.5	1.5	2.5	6.0	4.0	5.0	10.5	5.5	7.5
26	---	---	---	2.5	1.5	2.0	6.0	4.5	5.5	8.5	6.0	7.5
27	1.0	.0	.5	3.5	1.5	2.0	6.0	4.5	5.0	9.5	6.5	7.5
28	1.0	.5	1.0	2.5	1.5	2.0	7.0	4.0	5.5	8.5	6.5	7.5
29	---	---	---	3.0	1.0	2.0	6.0	5.0	5.5	11.0	6.5	8.5
30	---	---	---	2.0	1.5	1.5	7.0	4.5	5.5	8.5	7.5	8.0
31	---	---	---	3.0	1.5	2.0	---	---	---	9.0	7.5	8.5
MONTH	---	---	---	---	---	---	7.5	---	---	11.0	4.0	6.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.0	7.5	8.0	13.5	10.5	12.0	14.5	12.0	13.0	10.5	10.5	10.5
2	9.0	7.0	8.0	13.0	10.0	11.5	16.0	12.0	14.0	10.5	10.0	10.0
3	9.0	7.0	8.0	12.5	10.5	11.5	17.0	11.5	14.5	10.5	9.5	10.0
4	9.5	7.0	8.0	12.0	10.5	11.0	16.0	13.5	14.0	11.0	9.5	10.5
5	9.5	7.0	8.0	11.5	9.5	10.5	16.0	11.5	14.0	10.5	9.5	10.0
6	10.5	8.0	9.0	11.0	9.5	10.5	16.0	13.0	15.0	10.5	9.5	10.0
7	11.0	8.0	9.5	11.5	10.0	10.5	17.5	12.0	15.0	10.5	9.0	10.0
8	11.0	8.0	9.0	10.5	9.5	10.0	18.5	13.0	16.0	10.5	9.0	10.0
9	9.0	8.0	8.5	11.0	10.0	10.5	18.5	13.0	16.0	10.5	9.0	10.0
10	10.0	8.0	9.0	11.0	9.0	10.0	18.5	13.5	16.0	10.5	8.0	9.5
11	10.0	8.0	9.0	10.5	9.0	10.0	18.0	14.0	16.0	10.0	8.5	9.0
12	10.0	7.5	9.0	10.5	9.5	9.5	18.5	13.0	16.0	10.5	9.0	9.5
13	12.0	8.0	9.5	11.0	9.5	10.0	19.5	14.0	17.0	11.5	9.5	10.5
14	11.0	8.5	9.5	10.5	9.5	10.0	17.0	15.0	16.0	12.0	9.5	10.5
15	11.5	9.0	10.0	13.0	9.0	11.0	18.5	14.5	16.0	12.0	10.0	10.5
16	9.5	8.0	9.0	12.5	10.0	10.5	18.0	14.5	16.5	12.5	10.5	11.0
17	10.0	8.0	9.0	12.5	10.0	11.5	17.0	15.0	16.0	12.0	10.5	11.0
18	13.5	8.5	10.5	15.0	10.0	12.5	16.0	13.0	14.5	11.5	10.5	11.0
19	14.0	9.5	11.5	17.0	10.5	14.0	15.5	14.0	14.5	10.5	10.0	10.0
20	12.5	10.0	11.0	18.5	11.5	15.0	15.0	12.5	13.5	10.5	9.5	10.0
21	11.5	10.0	10.5	19.0	12.5	16.0	13.0	12.0	12.0	10.5	9.5	10.0
22	12.0	9.0	10.5	17.5	13.5	14.5	12.5	11.0	12.0	10.0	10.0	10.0
23	10.5	9.0	9.5	14.5	12.0	12.5	13.0	11.0	12.0	10.0	9.0	9.5
24	12.0	8.5	10.0	14.0	11.0	12.5	13.5	10.5	12.0	9.5	9.0	9.5
25	11.5	9.0	10.5	14.0	11.5	13.0	13.0	11.0	12.0	10.0	9.0	9.5
26	14.0	9.0	11.0	14.5	11.0	13.0	12.0	10.5	11.5	9.0	8.0	8.5
27	12.5	9.0	11.0	14.5	12.0	13.5	12.0	11.5	11.5	9.5	8.5	9.0
28	13.5	10.0	11.5	14.5	12.0	13.0	12.0	10.0	10.5	10.0	9.0	9.0
29	11.5	10.0	11.0	15.5	12.0	14.0	12.0	9.5	10.5	9.0	8.5	9.0
30	16.0	9.0	12.0	14.5	12.0	13.0	11.5	9.5	10.5	9.0	8.0	8.5
31	---	---	---	14.0	12.5	13.0	11.5	9.5	10.5	---	---	---
MONTH	16.0	7.0	9.7	19.0	9.0	11.9	19.5	9.5	13.8	12.5	8.0	9.9

SOUTHEAST ALASKA

15081610 THREEMILE CREEK NEAR KLAWOCK

LOCATION.--Lat 53°32'06", long 132°57'17", in SW¹/₄ SW¹/₄ SE¹/₄ sec. 16, T. 73 S., R. 82 E. (Craig C-3 quad), Hydrologic Unit 19010103, on Prince of Wales Island, approximately 2.0 mi upstream from the mouth at Klawock Lake, and 5.2 mi east of the city of Klawock.

DRAINAGE AREA.--6.62 mi²

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

GAGE.--Water-stage recorder. Elevation of gage is 295 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except for those above 250 ft³/s, which are poor.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	51	173	67	85	31	26	51	138	43	24	179
2	36	57	132	156	88	26	21	66	108	45	24	158
3	66	114	67	155	70	25	19	136	75	50	20	175
4	44	61	54	93	43	20	34	68	81	65	18	143
5	42	56	120	142	34	16	23	40	91	82	17	138
6	55	63	97	87	28	22	20	29	98	102	17	96
7	100	66	56	104	28	47	22	79	102	151	16	60
8	64	46	43	85	26	23	19	105	104	115	15	57
9	51	36	33	60	23	19	21	43	102	112	15	38
10	41	30	28	39	21	136	18	36	85	84	14	26
11	78	28	25	31	18	240	18	50	61	55	13	23
12	72	60	23	27	18	72	19	58	51	51	12	24
13	73	38	20	27	68	36	16	56	78	68	12	20
14	73	31	16	24	37	24	16	54	101	133	11	17
15	117	27	15	37	19	28	16	55	95	80	11	15
16	72	30	16	66	15	32	20	56	78	72	10	14
17	48	80	22	72	14	42	47	83	72	63	9.9	17
18	47	45	71	66	13	28	51	89	65	45	10	43
19	58	45	31	49	13	26	36	103	92	40	12	83
20	90	55	21	48	12	19	27	55	133	42	36	54
21	67	49	19	61	12	14	29	63	115	41	101	66
22	91	143	17	69	12	13	38	142	87	37	41	172
23	68	112	17	74	11	12	128	81	84	38	42	88
24	51	106	27	58	9.9	15	90	53	81	48	52	64
25	40	82	71	44	10	77	56	45	67	33	50	56
26	33	68	41	36	27	44	141	49	52	25	98	39
27	33	65	32	104	164	38	139	60	55	23	215	37
28	38	43	35	66	58	29	67	63	65	22	72	38
29	29	33	41	41	---	28	87	65	52	22	47	221
30	54	51	78	38	---	76	66	93	42	20	38	200
31	62	---	50	139	---	47	---	190	---	19	98	---
TOTAL	1849	1771	1491	2165	976.9	1305	1330	2216	2510	1826	1170.9	2361
MEAN	59.6	59.0	48.1	69.8	34.9	42.1	44.3	71.5	83.7	58.9	37.8	78.7
MAX	117	143	173	156	164	240	141	190	138	151	215	221
MIN	29	27	15	24	9.9	12	16	29	42	19	9.9	14
AC-FT	3670	3510	2960	4290	1940	2590	2640	4400	4980	3620	2320	4680
CFSM	9.00	8.90	7.25	10.5	5.26	6.35	6.69	10.8	12.6	8.88	5.70	11.9
IN.	10.37	9.94	8.37	12.15	5.48	7.32	7.46	12.43	14.08	10.25	6.57	13.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	86.2	63.5	52.7	52.9	30.8	32.7	43.5	72.2	85.7	62.3	50.4	76.4
MAX	113	68.1	57.3	69.8	34.9	42.1	50.1	88.8	108	68.3	58.6	92.9
(WY)	2000	2000	2000	2001	2001	2001	1999	1999	1999	1999	2000	1999
MIN	59.6	59.0	48.1	36.0	26.8	22.9	36.0	56.1	65.8	58.9	37.8	57.5
(WY)	2001	2001	2001	2000	2000	1999	2000	2000	2000	2001	2001	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001#

ANNUAL TOTAL	18215.2		20971.8			
ANNUAL MEAN	49.8		57.5		56.6	
HIGHEST ANNUAL MEAN					57.5	
LOWEST ANNUAL MEAN					55.8	
HIGHEST DAILY MEAN	272	Aug 21	240	Mar 11	482	Oct 21 1999
LOWEST DAILY MEAN	7.3	Mar 9	a9.9	Feb 24	7.3	Mar 9 2000
ANNUAL SEVEN-DAY MINIMUM	9.2	Mar 6	11	Aug 12	9.1	Mar 4 1999
MAXIMUM PEAK FLOW			530	Sep 29	b1390	Aug 21 2000
MAXIMUM PEAK STAGE			c9.79	Jan 2	11.55	Aug 21 2000
INSTANTANEOUS LOW FLOW			9.1	Feb 24	6.4	Mar 10 2000
ANNUAL RUNOFF (AC-FT)	36130		41600		41020	
ANNUAL RUNOFF (CFSM)	7.51		8.67		8.54	
ANNUAL RUNOFF (INCHES)	102.20		117.67		116.03	
10 PERCENT EXCEEDS	79		110		104	
50 PERCENT EXCEEDS	47		49		52	
90 PERCENT EXCEEDS	16		17		17	

See Period of Record

a Feb. 24 and Aug. 17

b From rating curve extended above 130 ft³/s

c Result of backwater from log on control. Maximum stage after log was removed, 9.69 ft Sep. 29.

SOUTHEAST ALASKA

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 September 2001.

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

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR:-- Maximum discharge during period December to September 597 ft³/s; September 29, gage height 10.07 ft. from rating curve extended above 53.8 ft³/s; minimum daily discharge about 5.0 ft³/s, Feb. 24-25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	e46	e70	26	17	31	e120	e37	7.9	158
2	---	---	---	e152	e75	17	12	46	e80	e38	8.2	96
3	---	---	---	e150	e55	18	12	100	e50	e41	7.7	135
4	---	---	---	e80	e40	15	27	39	e65	e48	7.4	105
5	---	---	---	e120	e28	12	20	17	e80	e55	7.1	94
6	---	---	---	e80	e20	14	16	12	e90	e80	6.9	59
7	---	---	e20	e100	e19	58	17	51	e95	e138	6.7	24
8	---	---	14	e70	e16	26	18	112	e100	e100	6.5	23
9	---	---	11	e48	e12	21	24	35	e75	e80	6.3	15
10	---	---	10	e34	e9.5	200	19	23	e60	e36	6.1	11
11	---	---	9.8	e25	e8.0	288	18	e36	e50	16	6.0	14
12	---	---	e9.3	e18	e7.0	61	21	e50	e36	21	5.9	18
13	---	---	e9.0	e13	e10	24	16	e48	e48	40	5.8	12
14	---	---	e8.5	e12	e8.0	14	15	e50	e97	65	e5.7	10
15	---	---	e8.0	e27	e7.0	16	18	e52	e85	24	e5.5	9.4
16	---	---	9.9	e60	e6.5	18	22	e55	e75	28	e5.3	8.9
17	---	---	11	e65	e6.3	33	53	e75	e65	24	e5.3	16
18	---	---	91	e50	e6.0	25	54	e85	e50	13	e5.3	68
19	---	---	28	e40	e5.9	22	38	e95	e70	10	e6.5	122
20	---	---	14	e38	e5.7	14	24	e40	e120	9.2	e25	45
21	---	---	11	e46	e5.5	13	20	e42	e100	8.5	e80	45
22	---	---	10	e55	e5.5	11	22	e120	e80	8.8	e34	157
23	---	---	8.8	e70	e5.3	9.2	113	e70	e70	13	e36	57
24	---	---	11	e50	e5.0	10	89	e44	e60	12	e44	26
25	---	---	80	e38	e5.0	58	50	e36	e50	10	e42	26
26	---	---	37	e30	36	37	112	e38	e36	9.0	e95	18
27	---	---	24	e95	221	27	95	e46	e46	8.5	e195	19
28	---	---	e26	e50	69	25	33	e55	e50	8.1	e100	25
29	---	---	e28	e30	---	20	46	e60	e40	7.8	e50	247
30	---	---	e65	e29	---	57	51	e110	e36	7.6	e19	201
31	---	---	e44	e120	---	38	---	e185	---	7.5	97	---
TOTAL	---	---	---	1841	767.2	1227.2	1092	1858	2079	1004.0	939.1	1864.3
MEAN	---	---	---	59.4	27.4	39.6	36.4	59.9	69.3	32.4	30.3	62.1
MAX	---	---	---	152	221	288	113	185	120	138	195	247
MIN	---	---	---	12	5.0	9.2	12	12	36	7.5	5.3	8.9
MED	---	---	---	50	8.8	22	22	50	68	21	7.4	26
AC-FT	---	---	---	3650	1520	2430	2170	3690	4120	1990	1860	3700
CFSM	---	---	---	12.6	5.79	8.37	7.70	12.7	14.7	6.85	6.40	13.1
IN.	---	---	---	14.48	6.03	9.65	8.59	14.61	16.35	7.90	7.39	14.66

e Estimated

SOUTHEAST ALASKA

15081995 REYNOLDS CREEK BELOW LAKE MELLEEN NEAR HYDABURG

LOCATION.--Lat 55°13'05", long 132°34'50", in SW¹/₄ SE¹/₄ sec. 3, T. 77 S., R. 84 E. (Craig A-2 quad), Hydrologic Unit 19010103, on Prince of Wales Island, in Tongass National Forest, 0.1 mi below Lake Mellen, approximately 1 mi upstream from mouth at Copper Harbor in Hetta Inlet, and 10 mi east of Hydaburg.

DRAINAGE AREA.--5.20 mi².

PERIOD OF RECORD.--July 1982 to September 1985, October 1997 to current year

GAGE.--Water-stage recorder. Elevation of gage is 860 ft above sea level, from topographic map. Prior to January 1, 1984, at datum 2.00 ft higher.

REMARKS.--Records good, except for estimated daily discharges which are poor. GOES satellite telemetry at station. Streamflow affected by storage in lakes, which cover 30 percent of the basin.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	75	162	71	133	57	40	81	107	e54	e33	151
2	49	80	200	106	146	53	34	83	92	e51	e34	164
3	48	109	128	169	133	45	31	113	81	e50	e32	199
4	46	92	107	134	107	39	33	102	82	e60	e33	169
5	45	82	118	184	92	35	33	87	85	e83	e34	136
6	57	84	128	161	82	39	30	78	81	e90	e35	136
7	108	88	103	138	74	48	29	100	82	e95	e36	114
8	88	77	89	169	68	42	28	99	78	e100	e34	104
9	80	67	79	136	62	37	28	85	76	e102	e33	93
10	68	59	70	112	57	55	27	79	71	e95	e32	83
11	80	54	64	97	51	125	27	89	66	e90	e30	76
12	89	87	58	86	46	94	27	85	62	e85	e29	73
13	91	85	52	78	46	70	26	87	63	e75	e28	65
14	78	67	46	70	53	58	25	89	72	e84	e26	58
15	126	58	42	68	44	58	25	90	70	e77	e25	52
16	105	55	42	104	38	58	25	92	62	e74	e24	47
17	88	82	41	115	34	65	29	96	58	e70	e23	52
18	79	70	74	102	32	58	36	102	54	e65	e22	73
19	80	61	57	93	30	58	35	98	58	e60	e30	84
20	92	58	44	87	29	50	30	85	89	e56	e42	71
21	91	58	38	89	28	42	31	82	94	e54	e46	75
22	124	125	34	89	27	37	35	110	82	e50	e48	127
23	111	180	32	99	26	34	68	99	73	e48	e55	118
24	95	163	33	94	25	32	95	86	e70	e45	e70	98
25	82	150	68	81	25	46	75	78	e67	e43	e95	103
26	73	129	71	72	26	58	74	74	e65	e40	e120	85
27	69	122	67	95	68	52	100	73	e63	e38	e140	87
28	68	107	54	107	76	50	86	70	e60	e36	e98	91
29	61	91	51	86	---	43	98	67	e57	e34	80	121
30	68	86	75	77	---	46	93	68	e55	e33	75	170
31	87	---	78	107	---	51	---	122	---	e32	94	---
TOTAL	2484	2701	2305	3276	1658	1635	1353	2749	2175	1969	1536	3075
MEAN	80.1	90.0	74.4	106	59.2	52.7	45.1	88.7	72.5	63.5	49.5	102
MAX	126	180	200	184	146	125	100	122	107	102	140	199
MIN	45	54	32	68	25	32	25	67	54	32	22	47
AC-FT	4930	5360	4570	6500	3290	3240	2680	5450	4310	3910	3050	6100
CFSM	15.4	17.3	14.3	20.3	11.4	10.1	8.67	17.1	13.9	12.2	9.53	19.7
IN.	17.77	19.32	16.49	23.44	11.86	11.70	9.68	19.67	15.56	14.09	10.99	22.00

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

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	95.9	75.6	70.5	90.4	74.2	61.5	66.4	81.3	65.8	46.5	49.3	64.2								
MAX	172	142	131	129	107	97.9	90.9	128	103	63.5	78.7	102								
(WY)	2000	2000	1998	1985	1984	1984	2000	1999	1999	2001	1983	2001								
MIN	71.6	44.1	20.7	61.4	47.7	38.3	45.1	40.4	22.9	20.2	19.3	32.2								
(WY)	1986	1986	1984	1998	1999	1999	2001	1998	1998	1998	1982	1982								

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1982 - 2001#

ANNUAL TOTAL	27633	26916		
ANNUAL MEAN	75.5	73.7		71.5
HIGHEST ANNUAL MEAN				88.9
LOWEST ANNUAL MEAN				59.5
HIGHEST DAILY MEAN	250	Aug 22	200	Dec 2
LOWEST DAILY MEAN	29	Aug 14	22	Aug 18
ANNUAL SEVEN-DAY MINIMUM	33	Jan 20	25	Aug 12
MAXIMUM PEAK FLOW			225	Dec 2
MAXIMUM PEAK STAGE			6.70	Dec 2
INSTANTANEOUS LOW FLOW			a	b8.7
ANNUAL RUNOFF (AC-FT)	54810	53390		51820
ANNUAL RUNOFF (CFSM)	14.5	14.2		13.8
ANNUAL RUNOFF (INCHES)	197.68	192.55		186.90
10 PERCENT EXCEEDS	118	118		120
50 PERCENT EXCEEDS	71	71		61
90 PERCENT EXCEEDS	38	32		29

See Period of Record; partial years used in monthly summary statistics and break in record
a Not determined; see lowest daily mean
b Jul. 9 and 10, 1998
c Estimated

SOUTHEAST ALASKA

15085100 OLD TOM CREEK NEAR KASAAN

LOCATION.--Lat 55°23'44", long 132°24'25", in NW¼ SW¼ 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 15	0500	602	4.63	Jan 20	1630	499	4.30
Nov 23	0330	514	4.35	Feb 2	0430	529	4.40
Dec 1	1545	*951	*5.60	Aug 21	0730	548	4.46
Dec 18	0545	487	4.26	Aug 31	1915	799	5.20
Jan 2	2330	658	4.80	Sept 2	2200	631	4.72
Jan 4	2315	545	4.45	Sept 29	2145	605	4.64
Jan 7	2315	496	4.29				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	59	683	108	166	84	30	69	69	11	3.2	338
2	5.8	54	212	310	387	87	19	64	48	9.7	4.4	311
3	8.5	78	60	362	128	42	14	139	32	10	3.7	265
4	7.5	35	36	231	48	24	16	58	33	11	3.4	96
5	7.2	28	51	295	29	18	16	34	32	10	3.0	55
6	16	32	99	132	21	23	14	32	27	16	3.4	40
7	97	56	41	150	17	62	12	158	26	18	3.1	26
8	42	29	27	212	17	29	11	84	24	17	2.8	20
9	37	21	20	150	16	20	11	47	22	22	2.5	16
10	21	17	16	e55	13	56	9.9	39	19	16	2.2	13
11	31	15	13	e34	8.9	190	9.9	40	18	12	2.0	12
12	36	87	11	24	8.3	63	10	39	16	12	1.7	13
13	36	38	9.2	19	11	33	9.4	52	17	22	1.6	9.9
14	50	24	e8.0	15	18	23	9.6	81	20	17	1.4	7.9
15	291	19	e7.5	18	11	47	10	53	18	12	1.4	6.8
16	87	26	e7.0	52	8.9	43	12	51	17	13	1.2	6.1
17	42	93	10	153	e7.7	46	21	55	15	19	1.2	9.2
18	31	33	201	110	7.0	63	25	75	14	13	4.6	34
19	60	25	48	62	6.4	65	18	68	20	10	4.8	44
20	126	43	24	201	6.0	32	15	40	44	8.3	86	29
21	67	36	17	113	5.6	18	15	39	42	7.2	266	71
22	134	291	13	150	5.4	14	23	52	30	6.4	84	145
23	80	288	11	165	4.9	12	135	34	22	6.1	231	104
24	43	200	25	79	e4.4	11	109	26	44	5.7	108	75
25	27	150	132	45	4.4	133	56	22	38	5.0	109	67
26	21	96	62	30	6.2	71	108	20	23	4.5	103	70
27	21	77	44	217	151	54	117	24	18	4.1	187	95
28	37	45	31	100	82	44	70	21	17	3.8	52	147
29	22	29	59	40	---	30	208	21	15	3.6	35	414
30	91	65	158	32	---	73	108	27	13	3.2	37	268
31	110	---	71	203	---	66	---	146	---	2.9	229	---
TOTAL	1692.7	2089	2206.7	3867	1199.1	1576	1241.8	1710	793	331.5	1578.6	2807.9
MEAN	54.6	69.6	71.2	125	42.8	50.8	41.4	55.2	26.4	10.7	50.9	93.6
MAX	291	291	683	362	387	190	208	158	69	22	266	414
MIN	5.8	15	7.0	15	4.4	11	9.4	20	13	2.9	1.2	6.1
AC-FT	3360	4140	4380	7670	2380	3130	2460	3390	1570	658	3130	5570
CFSM	9.25	11.8	12.1	21.1	7.26	8.62	7.02	9.35	4.48	1.81	8.63	15.9
IN.	10.67	13.17	13.91	24.38	7.56	9.94	7.83	10.78	5.00	2.09	9.95	17.70

e Estimated

SOUTHEAST ALASKA

15085100 OLD TOM CREEK NEAR KASAAN--Continued

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	70.9	66.1	57.5	48.4	45.4	39.1	48.7	43.1	26.1	13.3	15.1	31.7
MAX	163	166	136	128	117	86.3	122	99.1	56.1	31.0	50.9	93.6
(WY)	1978	2000	1992	1992	1998	1984	1980	1999	1950	1991	2001	2001
MIN	28.4	17.1	8.29	3.00	5.00	10.1	19.1	15.0	5.45	2.66	1.81	2.69
(WY)	1952	1966	1984	1950	1950	1956	1967	1996	1958	1958	1993	1965

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1949 - 2001#	
ANNUAL TOTAL	18221.0		21093.3			
ANNUAL MEAN	49.8		57.8		42.1	
HIGHEST ANNUAL MEAN					63.1	
LOWEST ANNUAL MEAN					25.2	
HIGHEST DAILY MEAN	683	Dec 1	683	Dec 1	858	Oct 23 1990
LOWEST DAILY MEAN	3.9	Aug 14	a1.2	Aug 16	.28	Nov 14 1965
ANNUAL SEVEN-DAY MINIMUM	5.0	Aug 9	1.5	Aug 11	.55	Nov 13 1965
MAXIMUM PEAK FLOW			951	Dec 1	b1490	Apr 16 1952
MAXIMUM PEAK STAGE			5.60	Dec 1	6.96	Apr 16 1952
INSTANTANEOUS LOW FLOW			.73	Aug 18	.16	Nov 15 1965
ANNUAL RUNOFF (AC-FT)	36140		41840		30480	
ANNUAL RUNOFF (CFSM)	8.44		9.79		7.13	
ANNUAL RUNOFF (INCHES)	114.88		133.00		96.88	
10 PERCENT EXCEEDS	120		150		93	
50 PERCENT EXCEEDS	27		30		24	
90 PERCENT EXCEEDS	9.0		6.2		6.5	

See Period of Record; partial years used in monthly summary statistics
a Aug. 16 and 17
b From rating curve extended above 330 ft³/s

SOUTHEAST ALASKA

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 August 28. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

EXTREMES FOR CURRENT YEAR.--

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

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

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
AUG 2001							
28...	1108	39.1	1.50	2.30	48.7	11.5	13.0
28...	1107	39.1	11.50	2.30	48.7	11.5	13.0
28...	1106	39.1	21.50	2.30	48.7	11.5	13.0
28...	1105	39.1	31.50	2.30	48.7	11.5	13.0

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	7.0	8.0	6.5	6.0	6.0	5.0	4.5	5.0	3.5	3.0	3.0
2	7.0	6.0	6.5	7.0	6.5	6.5	5.5	5.0	5.0	4.0	3.0	3.5
3	8.0	7.0	7.5	7.5	6.5	7.0	5.0	4.5	4.5	4.0	3.5	4.0
4	8.5	7.5	8.0	6.5	5.5	6.0	4.5	4.0	4.5	3.5	3.0	3.5
5	9.0	8.0	8.5	6.5	5.5	6.0	5.5	4.5	5.0	4.0	3.5	4.0
6	9.0	8.5	8.5	6.0	5.5	6.0	5.5	4.0	5.0	3.5	3.5	3.5
7	9.0	8.5	9.0	6.0	5.5	6.0	4.0	3.5	4.0	4.0	3.0	3.5
8	8.5	8.0	8.0	6.0	5.0	5.5	3.5	3.0	3.5	4.0	3.5	3.5
9	8.5	7.5	8.0	5.0	4.0	4.5	3.0	1.5	2.0	3.5	3.0	3.5
10	8.0	7.0	7.5	4.5	4.0	4.0	1.5	1.5	1.5	3.0	2.5	2.5
11	8.5	8.0	8.0	5.0	4.0	4.5	1.5	1.0	1.5	2.5	1.5	2.0
12	9.5	8.5	9.0	5.5	5.0	5.0	1.0	1.0	1.0	2.0	1.5	2.0
13	9.0	8.0	8.5	5.0	5.0	5.0	1.0	.5	.5	2.5	2.0	2.0
14	8.5	7.5	8.0	5.0	4.5	4.5	.5	.0	.0	2.0	2.0	2.0
15	9.0	8.0	8.5	5.0	4.5	5.0	.0	.0	.0	2.5	2.0	2.5
16	8.5	7.5	8.0	5.5	5.0	5.0	.0	.0	.0	3.0	2.5	2.5
17	8.5	8.0	8.0	5.5	4.5	5.0	.5	.0	.5	3.5	2.5	3.0
18	8.5	7.5	8.0	5.0	4.5	4.5	2.5	.0	1.5	3.5	3.0	3.5
19	7.5	7.0	7.0	5.5	5.0	5.0	2.5	2.0	2.5	3.0	3.0	3.0
20	7.5	7.0	7.0	6.0	5.0	5.5	2.5	2.0	2.0	3.5	3.0	3.0
21	7.0	6.5	7.0	6.0	6.0	6.0	2.0	1.0	1.5	3.5	3.0	3.5
22	8.0	7.0	7.5	6.5	6.0	6.5	2.0	1.0	1.5	3.5	3.5	3.5
23	8.0	7.0	7.5	6.5	5.5	6.0	2.0	1.0	1.5	3.5	3.5	3.5
24	7.0	6.5	7.0	6.0	5.5	5.5	2.5	2.0	2.0	4.0	3.5	3.5
25	6.5	5.5	6.0	5.5	5.0	5.5	2.5	2.0	2.5	4.0	3.5	4.0
26	6.5	5.5	6.0	5.0	4.5	5.0	2.5	2.5	2.5	4.0	3.5	3.5
27	6.5	6.0	6.5	5.0	4.0	4.5	2.5	2.5	2.5	4.0	3.5	3.5
28	6.5	6.0	6.5	4.0	3.5	4.0	2.5	2.5	2.5	4.0	2.5	3.0
29	6.5	5.0	5.5	4.0	3.5	4.0	3.0	2.5	3.0	3.0	2.0	2.5
30	6.0	5.0	5.5	4.5	4.0	4.0	3.5	3.0	3.0	2.5	2.0	2.5
31	6.5	6.0	6.0	---	---	---	3.0	3.0	3.0	3.5	2.5	3.0
MONTH	9.5	5.0	7.4	7.5	3.5	5.2	5.5	.0	2.4	4.0	1.5	3.1

SOUTHEAST ALASKA

15085100 OLD TOM CREEK NEAR KASAAN--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.5	3.5	3.5	2.0	1.5	2.0	3.0	2.5	3.0	5.5	4.5	4.5
2	4.0	3.5	3.5	2.5	2.0	2.0	3.0	2.0	2.5	5.0	4.0	4.5
3	3.5	2.5	3.0	2.5	2.0	2.5	3.0	2.0	2.5	5.0	4.0	4.5
4	2.5	2.0	2.5	2.5	2.0	2.5	3.5	2.5	3.0	5.0	4.5	4.5
5	2.5	2.0	2.0	2.5	1.5	2.0	3.0	2.5	3.0	5.0	4.5	5.0
6	2.0	2.0	2.0	3.0	2.0	2.5	3.5	2.5	3.0	5.0	4.5	4.5
7	2.5	2.0	2.0	3.0	2.0	2.5	3.5	2.5	3.0	5.5	4.0	4.5
8	2.5	2.0	2.0	3.0	2.0	2.5	3.5	2.5	3.0	5.5	5.0	5.0
9	2.0	1.0	2.0	3.0	2.5	2.5	3.5	3.0	3.5	5.5	5.0	5.0
10	1.5	.5	1.5	3.0	2.5	2.5	3.5	3.0	3.0	5.5	5.0	5.0
11	.5	.0	.5	3.0	2.5	2.5	3.5	3.0	3.5	5.5	5.0	5.0
12	1.5	.5	1.0	3.5	3.0	3.0	4.0	3.5	3.5	5.5	5.0	5.0
13	1.5	1.0	1.5	3.0	2.5	3.0	3.5	3.0	3.5	5.0	4.5	5.0
14	1.5	1.0	1.0	3.0	2.0	2.5	4.5	3.5	4.0	5.5	5.0	5.0
15	1.0	.5	.5	3.5	2.5	3.0	4.0	3.0	3.5	5.0	5.0	5.0
16	.5	.0	.0	3.0	2.5	3.0	4.0	3.5	3.5	5.0	4.5	5.0
17	.5	.0	.0	3.5	2.5	3.0	4.0	3.5	4.0	5.5	4.5	5.0
18	1.0	.5	.5	3.5	2.5	3.0	4.5	3.5	3.5	5.0	5.0	5.0
19	2.0	.5	1.0	3.5	2.5	3.0	4.5	3.5	4.0	5.5	5.0	5.0
20	1.0	.5	1.0	3.0	1.5	2.5	5.5	3.5	4.0	5.5	5.0	5.0
21	1.5	.5	1.0	1.5	1.0	1.0	4.5	3.0	3.5	5.5	5.0	5.5
22	2.0	1.0	1.5	1.5	1.0	1.0	5.0	3.5	4.0	6.0	5.5	5.5
23	1.0	.0	.5	2.0	1.0	1.5	4.0	3.5	3.5	6.0	5.5	5.5
24	1.0	.0	.5	2.0	1.5	2.0	5.0	3.5	4.5	6.0	5.0	5.5
25	2.0	.5	1.0	2.0	1.5	2.0	5.5	4.0	4.5	6.0	5.5	5.5
26	2.0	1.5	1.5	3.0	2.0	2.5	5.0	4.5	4.5	6.0	5.5	6.0
27	2.0	1.0	1.5	3.0	2.5	2.5	4.5	4.0	4.5	6.0	5.5	6.0
28	2.0	.0	1.5	3.0	2.0	2.5	5.0	3.5	4.5	6.5	6.0	6.0
29	---	---	---	3.5	2.5	2.5	5.5	4.0	4.5	6.5	6.0	6.5
30	---	---	---	3.0	2.0	2.5	5.0	4.5	4.5	6.5	6.0	6.5
31	---	---	---	3.5	2.0	3.0	---	---	---	7.0	6.5	6.5
MONTH	4.0	.0	1.4	3.5	1.0	2.4	5.5	2.0	3.6	7.0	4.0	5.2
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.5	6.5	6.5	10.5	10.0	10.0	11.5	11.0	11.5	11.0	10.5	10.5
2	6.5	6.0	6.5	10.5	10.0	10.5	13.0	11.0	11.5	10.5	9.5	10.5
3	7.0	6.5	6.5	10.5	10.5	10.5	11.5	10.5	11.0	11.0	10.0	10.5
4	7.0	6.5	7.0	10.5	10.5	10.5	11.5	11.0	11.0	11.0	10.0	10.5
5	7.5	6.5	7.0	10.5	10.0	10.0	12.0	11.0	11.5	11.0	10.5	10.5
6	7.5	7.0	7.0	10.0	10.0	10.0	12.0	11.0	11.5	11.0	10.0	10.5
7	7.5	7.0	7.5	10.0	9.5	10.0	13.0	11.0	12.0	11.0	10.0	10.5
8	7.5	7.5	7.5	10.0	9.5	9.5	13.5	11.0	12.0	11.0	10.0	10.5
9	7.5	7.5	7.5	9.5	9.5	9.5	14.5	11.0	12.5	11.0	9.5	10.0
10	7.5	7.5	7.5	9.5	9.5	9.5	14.5	11.5	13.0	10.5	8.5	9.5
11	7.5	7.5	7.5	9.5	9.5	9.5	14.5	12.0	13.0	10.0	9.5	9.5
12	8.0	7.5	8.0	9.5	9.5	9.5	15.0	12.0	13.0	10.5	9.5	10.0
13	8.0	8.0	8.0	9.5	9.5	9.5	15.5	12.0	13.0	11.0	10.0	10.5
14	8.0	8.0	8.0	10.5	9.5	10.0	15.0	12.5	13.5	11.0	9.5	10.0
15	8.5	8.0	8.0	11.0	9.5	10.0	15.5	12.5	13.5	11.5	10.0	10.5
16	8.5	8.0	8.5	11.0	10.0	10.5	13.5	12.5	13.0	11.5	10.0	10.5
17	8.5	8.0	8.5	11.0	10.0	10.5	13.5	12.5	13.0	11.0	10.5	10.5
18	9.0	8.5	8.5	12.0	10.5	11.0	13.0	12.0	12.5	10.5	10.0	10.5
19	9.0	9.0	9.0	13.0	11.0	12.0	12.5	12.0	12.0	11.0	10.0	10.5
20	9.5	9.0	9.0	14.0	11.5	12.5	12.0	11.0	11.5	11.0	10.0	10.5
21	9.5	9.0	9.0	14.0	12.0	13.0	12.5	10.5	11.5	10.5	10.0	10.0
22	9.0	9.0	9.0	13.0	12.5	13.0	12.5	11.0	12.0	10.5	10.0	10.0
23	9.0	9.0	9.0	12.5	11.5	12.0	11.5	11.0	11.0	10.5	10.0	10.0
24	9.0	9.0	9.0	12.5	11.0	11.5	11.5	11.5	11.5	10.5	9.5	10.0
25	9.0	9.0	9.0	13.0	11.5	12.0	11.5	11.0	11.5	10.0	9.5	9.5
26	9.5	9.0	9.5	12.5	11.0	11.5	11.5	11.0	11.0	10.0	9.0	9.5
27	10.0	9.5	9.5	12.0	11.5	11.5	12.0	11.0	11.5	9.5	9.0	9.0
28	10.0	10.0	10.0	12.0	11.5	12.0	12.0	11.0	11.5	9.5	9.0	9.0
29	10.0	10.0	10.0	12.0	11.0	11.5	11.5	11.0	11.5	9.5	8.5	9.0
30	10.5	9.5	10.0	12.5	10.0	11.0	12.0	11.0	11.5	10.0	8.5	9.0
31	---	---	---	11.5	11.5	11.5	11.5	10.0	11.0	---	---	---
MONTH	10.5	6.0	8.2	14.0	9.5	10.8	15.5	10.0	12.0	11.5	8.5	10.1

SOUTHEAST ALASKA

15086960 SUNRISE LAKE OUTLET NEAR WRANGELL

LOCATION.--Lat 56°24'44", long 132°29'30", in NE¹/₄ NW¹/₄ sec. 17, T. 63 S., R. 83 E. (Petersburg B-2 quad), Hydrologic Unit 19010202, on Woronkofski Island, in the Tongass National Forest, on the right bank, 75 ft downstream from Sunrise Lake outlet and 6.5 mi southwest of Wrangell.

DRAINAGE AREA.--1.17 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1977 to September 1980, October 1997 to current year. Prior to October 1997 at a site 350 ft upstream at different datum (discontinued).

REVISED RECORDS.--WDR-AK-99-1: 1977-80 and 1998.

GAGE.--Water-stage recorder. Elevation of gage is 1950 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October to August, 106 ft³/s, January 3, 2001, gage height 9.24 ft; minimum daily discharge during period October to August, 1.0 ft³/s, February 25, 2001.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e11	5.7	13	4.8	14	3.4	2.9	4.8	41	14	e5.4	---
2	e7.0	13	32	12	11	2.6	2.2	e5.0	22	15	e5.7	---
3	e6.5	40	19	76	9.1	2.1	1.8	e5.5	20	16	e5.0	---
4	e5.5	18	12	24	5.5	1.9	1.9	e5.7	23	35	e4.4	---
5	e9.0	9.8	35	15	3.9	1.6	2.3	e6.0	23	27	e4.1	---
6	e13	13	45	15	3.1	1.9	2.0	5.6	22	43	e3.8	---
7	e14	15	18	8.5	2.7	2.0	1.6	4.6	22	47	e3.3	---
8	e15	13	11	7.2	2.4	1.7	1.4	4.4	21	31	e3.0	---
9	e11	8.1	8.2	5.8	e2.3	2.0	1.4	3.8	23	35	---	---
10	e7.5	5.4	6.4	4.3	2.1	2.8	1.3	3.4	25	23	---	---
11	e12	e5.2	5.2	3.3	1.9	4.9	1.2	4.8	17	15	---	---
12	e17	e7.8	4.4	e2.7	1.7	5.6	1.3	6.1	17	15	---	---
13	e28	6.0	3.6	e3.3	2.3	4.1	1.3	7.4	e23	42	---	---
14	e14	4.4	3.1	e2.9	3.6	2.9	1.1	7.1	24	31	---	---
15	e18	3.6	e2.8	e2.3	2.9	2.5	1.1	12	20	17	---	---
16	e13	4.1	e3.4	e3.0	2.3	2.6	1.1	11	17	13	---	---
17	e9.5	7.9	e3.6	e6.7	1.9	3.0	1.4	10	16	14	---	---
18	11	6.3	e3.8	e5.7	1.6	2.6	2.7	8.6	17	11	---	---
19	e12	8.3	e4.6	5.0	1.5	2.7	3.7	6.7	23	9.9	---	---
20	e13	11	e3.2	3.5	1.4	2.2	e3.8	6.6	e47	11	---	---
21	15	18	e2.5	e3.1	1.3	1.8	e3.6	11	36	11	---	---
22	30	51	e1.9	e2.5	1.2	1.5	e3.8	e27	24	9.8	---	---
23	22	41	e1.7	5.2	1.2	1.4	e5.7	e23	21	7.8	---	---
24	13	25	e1.6	8.3	1.1	1.2	e6.1	13	19	6.4	---	---
25	7.9	18	e2.4	7.1	e1.0	1.4	e5.4	9.9	16	5.5	---	---
26	5.6	13	e2.9	4.8	e1.3	e2.8	5.2	10	14	4.8	---	---
27	4.4	9.8	e2.7	e5.8	3.8	3.6	e12	12	17	4.4	---	---
28	3.5	6.9	e2.4	e7.0	7.3	3.3	11	15	24	4.0	---	---
29	3.0	5.2	e2.7	e5.5	---	2.9	7.2	20	19	3.7	---	---
30	4.1	4.5	e4.4	e5.0	---	2.4	5.9	21	14	3.3	---	---
31	5.5	---	6.1	e6.2	---	3.3	---	47	---	e4.1	---	---
TOTAL	361.0	398.0	268.6	271.5	95.4	80.7	103.4	338.0	667	529.7	---	---
MEAN	11.6	13.3	8.66	8.76	3.41	2.60	3.45	10.9	22.2	17.1	---	---
MAX	30	51	45	76	14	5.6	12	47	47	47	---	---
MIN	3.0	3.6	1.6	2.3	1.0	1.2	1.1	3.4	14	3.3	---	---
AC-FT	716	789	533	539	189	160	205	670	1320	1050	---	---
CFSM	9.95	11.3	7.41	7.49	2.91	2.22	2.95	9.32	19.0	14.6	---	---
IN.	11.48	12.65	8.54	8.63	3.03	2.57	3.29	10.75	21.21	16.84	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)#

	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
MEAN	17.7	8.97	8.52	5.97	3.48	3.79	6.66	17.4	20.9	14.9	10.1	11.6													
MAX	24.8	13.3	15.0	9.55	6.86	6.59	9.81	19.9	31.6	26.7	15.2	17.5													
(WY)	2000	2001	2000	1999	1980	1980	1980	1978	1999	2000	2000	1999													
MIN	11.6	4.24	4.20	2.26	1.60	2.44	3.45	10.9	9.88	5.91	3.47	7.04													
(WY)	2001	1999	1999	1979	1979	1978	2001	2001	1998	1998	1979	1977													

See period of record
e Estimated

SOUTHEAST ALASKA

15086960 SUNRISE LAKE OUTLET NEAR WRANGELL--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		WATER YEARS 1977 - 2001#	
ANNUAL TOTAL	4613.8			
ANNUAL MEAN	12.6		11.1	
HIGHEST ANNUAL MEAN			14.2	2000
LOWEST ANNUAL MEAN			8.66	1978
HIGHEST DAILY MEAN	110	Aug 22	110	Aug 22 2000
LOWEST DAILY MEAN	a1.2	Mar 9	b.93	Feb 24 1979
ANNUAL SEVEN-DAY MINIMUM	1.3	Mar 7	.94	Feb 23 1979
MAXIMUM PEAK FLOW			c205	Aug 21 2000
MAXIMUM PEAK STAGE			9.83	Aug 21 2000
INSTANTANEOUS LOW FLOW			.93	Feb 23 1979
ANNUAL RUNOFF (AC-FT)	9150		8010	
ANNUAL RUNOFF (CFSM)	10.8		9.45	
ANNUAL RUNOFF (INCHES)	146.70		128.43	
10 PERCENT EXCEEDS	28		25	
50 PERCENT EXCEEDS	8.0		7.3	
90 PERCENT EXCEEDS	2.0		2.1	

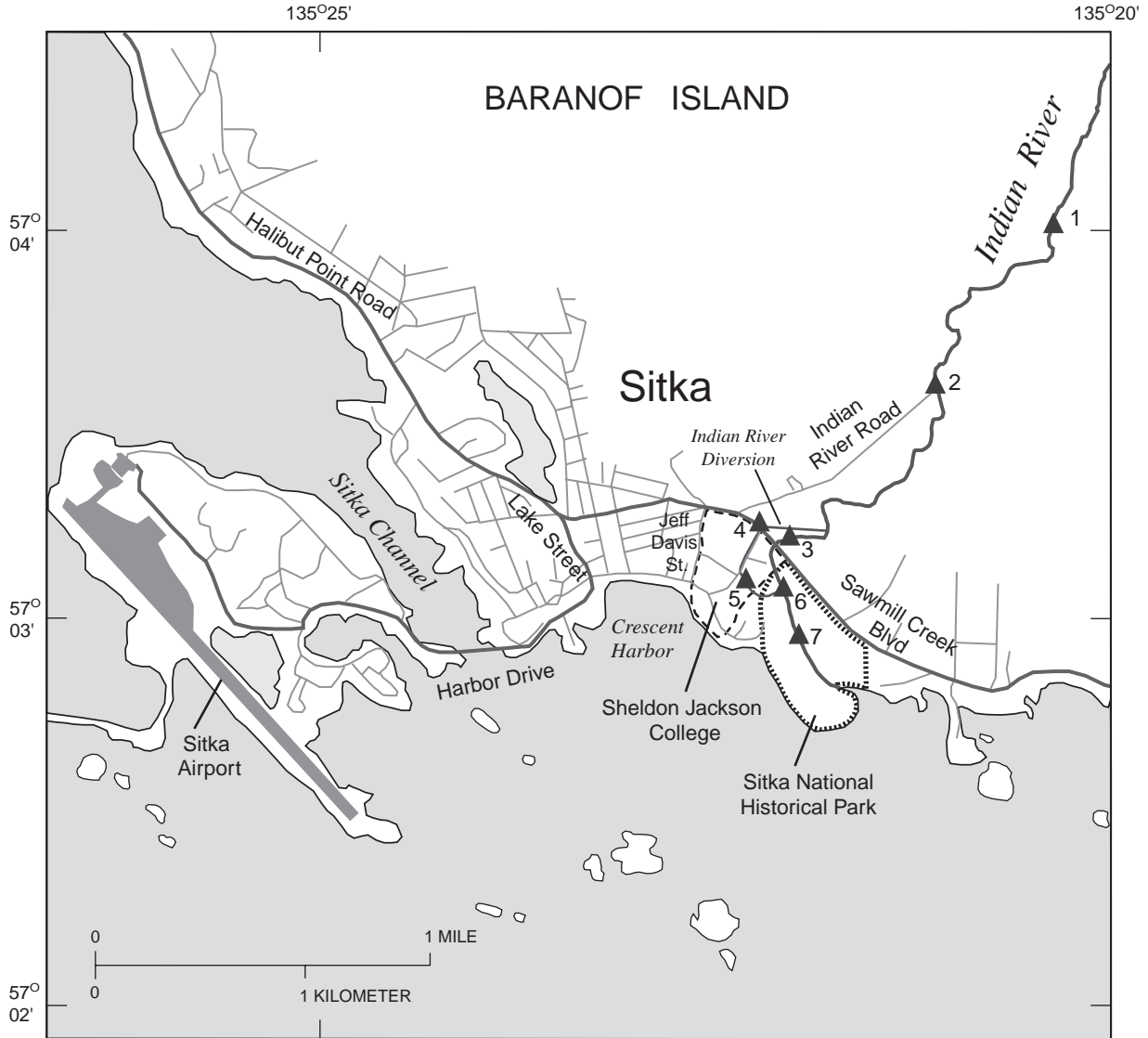
See Period of Record

a Mar. 9 to Mar. 12

b Feb. 24 to Feb. 28

c From rating curve extended above 50 ft³/s

SOUTHEAST ALASKA



EXPLANATION

▲¹ Discharge site and map number

Map No.	Station No.	Station Name	Map No.	Station No.	Station Name
* 1	15087690	Indian River near Sitka	5	15087735	Indian River Diversion Return Flow from Sheldon Jackson College at Sitka
2	15087695	Indian River above CBS pumphouse near Sitka	6	15087740	Indian River Diversion Return Flow at Mouth at Sitka
* 3	15087700	Indian River at Sitka	7	15087750	Indian River at Mouth at Sitka
4	15087730	Indian River Diversion to Sheldon Jackson College at Sawmill Cr Rd at Sitka			

* Daily discharge site

Locations of gaging stations in the Sitka area.

SOUTHEAST ALASKA

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

WATER-DISCHARGE RECORDS

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 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)
Oct 11	0200	*3080	*12.78	Dec 5	0615	1670	11.71

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	73	71	37	e149	e70	e35	58	124	57	72	46
2	42	62	71	58	e97	e56	e29	79	99	56	56	104
3	56	250	61	131	e113	e47	e30	130	100	60	58	71
4	43	111	75	82	e77	e44	e72	96	105	63	56	42
5	54	83	648	101	e62	e45	e57	72	98	107	45	193
6	134	74	170	89	e56	e47	39	65	92	86	36	125
7	136	92	108	70	e59	e53	35	77	94	159	32	106
8	121	76	92	73	e52	e59	51	132	103	100	31	90
9	206	62	80	67	e48	e75	54	97	102	85	32	79
10	184	55	72	56	e40	e41.2	42	83	110	85	32	74
11	757	119	65	51	e38	e500	44	79	87	81	29	80
12	247	113	59	47	e36	e221	40	82	85	82	28	159
13	216	74	52	52	e190	e131	38	80	90	81	25	407
14	171	61	46	50	e120	e100	35	e80	87	80	22	369
15	213	66	42	55	e65	e88	36	e80	82	80	25	160
16	139	62	39	67	e51	e80	41	79	81	81	24	152
17	106	104	38	56	e48	e77	53	71	81	73	21	159
18	91	68	45	e51	e43	e73	55	73	84	63	20	137
19	85	68	42	e48	e40	e66	47	63	99	62	21	128
20	84	72	35	e44	e38	e57	49	69	92	63	33	117
21	84	155	32	e54	e37	e52	53	79	80	64	17	110
22	101	194	29	e65	e35	e47	58	100	72	60	15	92
23	113	178	28	e76	e33	e43	58	109	76	69	12	79
24	93	138	28	e57	e32	e41	71	84	74	108	12	76
25	77	115	32	e47	e31	e43	57	79	66	89	14	61
26	67	119	32	e43	e80	e47	61	85	68	81	19	55
27	60	126	28	e122	e178	e41	65	97	77	70	72	56
28	55	91	27	e110	e138	e43	62	101	71	64	36	52
29	49	76	26	e62	---	e39	61	98	61	69	29	72
30	52	67	34	e80	---	e41	52	102	59	75	27	328
31	101	---	39	e160	---	e48	---	153	---	70	39	---
TOTAL	3987	3004	2246	2161	1986	2786	1480	2732	2599	2423	990	3779
MEAN	129	100	72.5	69.7	70.9	89.9	49.3	88.1	86.6	78.2	31.9	126
MAX	757	250	648	160	190	500	72	153	124	159	72	407
MIN	42	55	26	37	31	39	29	58	59	56	12	42
AC-FT	7910	5960	4450	4290	3940	5530	2940	5420	5160	4810	1960	7500
CFSM	12.7	9.91	7.17	6.90	7.02	8.90	4.88	8.73	8.58	7.74	3.16	12.5
IN.	14.68	11.06	8.27	7.96	7.31	10.26	5.45	10.06	9.57	8.92	3.65	13.92

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

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
MEAN	190	103	104	101	81.6	64.2	69.4	108	90.7	64.1	86.3	174
MAX	293	218	207	184	154	122	111	167	166	111	238	295
(WY)	1988	1990	1990	1984	1993	1986	1983	1983	1985	1985	1983	1991
MIN	104	37.0	21.7	46.3	24.8	19.9	39.1	53.3	28.8	20.6	30.0	52.8
(WY)	1985	1999	1984	1988	1999	1989	1981	1981	1993	1993	1989	1986

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

SOUTHEAST ALASKA

15087690 INDIAN RIVER NEAR SITKA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001#	
ANNUAL TOTAL	33073		30173			
ANNUAL MEAN	90.4		82.7		103	
HIGHEST ANNUAL MEAN					123	1987
LOWEST ANNUAL MEAN					82.7	2001
HIGHEST DAILY MEAN	1150	Sep 4	757	Oct 11	2000	Oct 12 1982
LOWEST DAILY MEAN	20	Mar 9	a12	Aug 23	8.6	Jan 18 1989
ANNUAL SEVEN-DAY MINIMUM	21	Mar 7	17	Aug 20	10	Jan 13 1989
MAXIMUM PEAK FLOW			b3080	Oct 11	c5710	Sep 4 1990
MAXIMUM PEAK STAGE			12.78	Oct 11	d13.51	Sep 4 1990
INSTANTANEOUS LOW FLOW			11	Aug 24	8.2	Jan 19 1989
ANNUAL RUNOFF (AC-FT)	65600		59850		74860	
ANNUAL RUNOFF (CFSM)	8.95		8.18		10.2	
ANNUAL RUNOFF (INCHES)	121.81		111.13		139.00	
10 PERCENT EXCEEDS	157		133		190	
50 PERCENT EXCEEDS	74		69		69	
90 PERCENT EXCEEDS	31		34		29	

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

a Aug. 23 and 24

b From rating curve extended above 300 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

SOUTHEAST ALASKA

15087690 INDIAN RIVER NEAR SITKA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1983, January 2001 to September 2001.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 2001 to September 2001

WATER TEMPERATURE: May 2001 to September 2001.

INSTRUMENTATION.--Electronic water temperature recorder since May 16, 2001, recorder set to 1 hour recording interval.

REMARKS.--

SPECIFIC CONDUCTANCE: Probe installed May 16, no record May 16 to July 24, due to program error. Records represent specific conductance at sensor within 3 us/cm. No variation was found within the cross sections measured on April 4 and July 25. No variation was found between the mean stream specific conductance and specific conductance at the sensor.

WATER TEMPERATURE: Probe installed on May 16. Records represent water temperature at sensor within 0.5°C. No variation was found within the cross sections measured on April 4 and July 25. No variation was found between the mean stream temperature and temperature at the sensor.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Minimum recorded, A specific conductance value of 21 us/cm was measured on October 12, 1982.

WATER TEMPERATURE: Minimum recorded, A water temperature of 2.5°C was measured on April 4, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 54 us/cm, August 20, and 23-25; minimum recorded, 27 us/cm, September 5.

WATER TEMPERATURE: Maximum recorded, 10.0°C, August 27, 2001, minimum recorded, 4.5°C several days in May and June.

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

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM R BK) (72103)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300)	OXYGEN, DIS-SOLVED (00301)						
DATE	TIME	MEDIUM CODE	SAMPLE TYPE	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
APR														
04...	0945	15.0	40	7.2	2.5	750	14.1	105						
04...	0946	20.0	40	7.2	2.5	750	14.1	105						
04...	0947	25.0	40	7.2	2.5	750	14.1	105						
04...	0948	30.0	40	7.2	2.5	750	14.1	105						
04...	0949	35.0	40	7.2	2.5	750	14.1	105						
04...	0950	40.0	40	7.2	2.5	750	14.1	105						
JUL														
25...	0902	5.0	39	6.6	7.5	763	12.5	104						
25...	0903	9.0	39	6.6	7.5	763	12.6	105						
25...	0904	13.0	39	6.6	7.5	763	12.7	106						
25...	0905	17.0	39	6.6	7.5	763	12.7	106						
25...	0906	21.0	40	6.7	7.5	763	12.7	106						
25...	0907	24.0	40	6.7	7.5	763	12.7	106						
25...	0908	28.0	39	6.7	7.5	763	12.8	107						
25...	0909	32.0	39	6.7	7.5	763	12.8	107						
JAN														
04...	1020	9	9	8.24	86	10	3045	42	7.4	--	--	14	4.75	
APR														
04...	0930	9	9	8.15	65	10	3045	40	7.2	2.5	14.1	15	4.93	
MAY														
16...	0900	9	9	8.24	78	10	3045	42	7.7	5.0	12.4	17	5.80	
16...	1130	9	9	--	--	--	8010	--	--	--	--	--	--	
16...	1200	H	9	--	--	--	--	--	--	--	--	--	--	
JUL														
25...	0930	9	9	8.38	88	10	3045	40	6.6	7.5	12.7	15	5.07	
MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)														
SODIUM, DIS-SOLVED (MG/L AS NA) (00930)														
ANC WATER UNFLTRD FET FIELD (MG/L AS) (00410)														
POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)														
BICAR-BONATE WATER DIS IT (MG/L AS) (00453)														
ALKA-LINITY WAT DIS TOT IT (MG/L AS) (39086)														
SULFATE DIS-SOLVED (MG/L AS SO4) (00945)														
CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)														
FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)														
SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)														
SOLIDS, RESIDUE AT 180 DEG. C (MG/L) (70300)														
SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)														
NITRO-GEN, NITRITE, DIS-SOLVED (MG/L AS N) (00613)														
JAN	04...	.505	1.8	--	<.24	--	--	1.4	3.6	<.2	2.8	30	--	<.001
APR														
04...	.540	2.1	--	<.09	14	11	1.6	3.9	<.2	3.0	29	--	.002	
MAY														
16...	.571	2.0	15	.12	18	14	1.4	3.8	<.2	3.2	28	26	<.001	
16...	--	--	--	--	--	--	--	--	--	--	--	--	--	
16...	--	--	--	--	--	--	--	--	--	--	--	--	--	
JUL														
25...	.513	1.7	--	.10	18	15	1.6	2.3	<.2	3.1	--	24	<.001	

SOUTHEAST ALASKA

15087690 INDIAN RIVER NEAR SITKA--Continued

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

DATE	METHANE 2CHLORO ETHOXY SED, BM WS, <2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS, <2MM DW, REC (UG/KG) (49456)	P- CRESOL SED, BM WS, <2MM DW, REC (UG/KG) (49451)
JAN 04...	--	--	--
APR 04...	--	--	--
MAY 16...	--	--	--
16...	--	--	--
16...	<50	<50	<50
JUL 25...	--	--	--

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	46	46	46	51	42	50
2	---	---	---	---	---	---	47	46	46	44	36	41
3	---	---	---	---	---	---	47	47	47	45	39	42
4	---	---	---	---	---	---	48	47	47	47	45	46
5	---	---	---	---	---	---	48	47	48	47	27	39
6	---	---	---	---	---	---	48	48	48	43	36	41
7	---	---	---	---	---	---	49	48	48	44	41	43
8	---	---	---	---	---	---	49	48	49	45	42	43
9	---	---	---	---	---	---	49	49	49	47	45	46
10	---	---	---	---	---	---	50	49	49	48	47	48
11	---	---	---	---	---	---	50	49	50	49	48	48
12	---	---	---	---	---	---	50	50	50	49	31	45
13	---	---	---	---	---	---	51	50	50	37	30	34
14	---	---	---	---	---	---	51	50	51	42	28	36
15	---	---	---	---	---	---	51	50	51	43	37	41
16	---	---	---	---	---	---	51	51	51	45	38	42
17	---	---	---	---	---	---	52	51	51	45	39	43
18	---	---	---	---	---	---	53	51	52	44	42	44
19	---	---	---	---	---	---	53	51	52	44	39	42
20	---	---	---	---	---	---	54	52	52	46	42	44
21	---	---	---	---	---	---	53	52	53	47	43	46
22	---	---	---	---	---	---	53	53	53	46	42	44
23	---	---	---	---	---	---	54	53	53	47	46	46
24	---	---	---	---	---	---	54	53	53	48	47	47
25	---	---	---	42	41	41	54	53	53	48	48	48
26	---	---	---	43	42	42	53	51	52	49	48	48
27	---	---	---	45	43	44	51	41	44	48	46	47
28	---	---	---	45	45	45	49	46	47	48	48	48
29	---	---	---	45	43	44	50	49	49	48	39	47
30	---	---	---	45	44	44	51	50	50	39	29	34
31	---	---	---	46	45	45	51	50	50	---	---	---
MONTH	---	---	---	---	---	---	54	41	50	51	27	44

SOUTHEAST ALASKA

15087690 INDIAN RIVER NEAR SITKA--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001												
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	5.5	4.5	4.0
17	---	---	---	---	---	---	---	---	---	5.0	4.5	4.5
18	---	---	---	---	---	---	---	---	---	5.0	4.5	5.0
19	---	---	---	---	---	---	---	---	---	6.0	4.5	5.0
20	---	---	---	---	---	---	---	---	---	5.0	4.5	5.0
21	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
22	---	---	---	---	---	---	---	---	---	5.0	4.5	4.5
23	---	---	---	---	---	---	---	---	---	5.0	4.5	4.5
24	---	---	---	---	---	---	---	---	---	5.5	4.5	4.5
25	---	---	---	---	---	---	---	---	---	6.0	4.5	5.0
26	---	---	---	---	---	---	---	---	---	6.0	4.5	5.0
27	---	---	---	---	---	---	---	---	---	6.0	5.0	5.5
28	---	---	---	---	---	---	---	---	---	6.0	5.0	5.5
29	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
30	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
31	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001												
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	4.5	5.0	8.5	6.5	7.0	8.0	7.0	7.5	9.0	8.0	8.0
2	5.5	5.0	5.0	8.5	7.0	7.5	8.0	7.0	7.5	9.0	8.0	8.5
3	5.5	5.0	5.0	8.0	7.0	7.5	7.5	7.0	7.0	8.5	8.0	8.0
4	6.0	5.0	5.5	7.5	7.0	7.5	7.5	7.0	7.5	8.5	7.5	8.0
5	5.5	5.0	5.5	7.5	7.0	7.5	8.0	7.0	7.5	9.5	8.0	8.5
6	6.0	5.0	5.5	7.0	7.0	7.0	8.0	7.0	7.5	8.5	7.5	8.0
7	6.0	5.0	5.5	7.5	7.0	7.5	7.5	7.0	7.0	8.0	7.5	7.5
8	6.5	5.0	6.0	7.0	6.5	7.0	8.5	7.0	7.5	8.0	7.0	7.5
9	5.5	5.5	5.5	7.0	6.5	7.0	8.5	7.0	7.5	7.0	6.5	6.5
10	5.5	5.0	5.5	7.0	6.5	7.0	8.0	7.0	7.5	7.0	6.0	6.5
11	5.5	5.0	5.5	7.0	6.5	6.5	7.5	7.0	7.5	6.5	6.5	6.5
12	6.0	5.5	5.5	7.0	6.5	6.5	8.5	7.0	7.5	9.0	6.5	7.0
13	6.5	5.5	6.0	7.0	6.5	6.5	8.5	7.0	7.5	9.0	8.0	8.5
14	6.5	5.5	6.0	7.0	6.5	7.0	8.0	7.0	7.5	9.0	7.5	8.5
15	6.5	5.5	6.0	7.0	6.5	7.0	9.0	7.0	7.5	8.5	7.5	8.0
16	6.5	5.5	6.0	7.5	6.5	7.0	8.5	7.0	7.5	8.5	7.5	8.0
17	6.5	6.0	6.0	8.0	6.5	7.0	7.5	7.5	7.5	8.5	7.5	7.5
18	7.5	6.0	6.5	7.0	7.0	7.0	8.0	7.0	7.5	7.5	7.5	7.5
19	7.0	6.5	6.5	8.5	7.0	7.5	8.0	7.0	7.5	8.0	7.0	7.5
20	6.5	6.0	6.5	8.5	7.0	7.5	8.0	7.5	7.5	7.5	7.0	7.0
21	6.5	6.0	6.5	9.0	7.0	7.5	8.5	7.5	8.0	7.5	6.5	7.0
22	6.5	6.0	6.0	7.5	7.5	7.5	8.5	7.5	8.0	7.5	7.0	7.0
23	6.5	6.0	6.0	8.0	7.5	7.5	8.0	7.5	7.5	7.0	6.5	7.0
24	7.0	6.0	6.5	9.0	8.0	8.5	8.0	7.5	7.5	7.0	6.5	6.5
25	7.0	6.0	6.5	8.5	7.5	8.0	8.0	7.5	8.0	7.0	6.5	6.5
26	8.0	6.0	7.0	8.0	7.5	8.0	9.0	8.0	8.5	7.0	6.5	6.5
27	8.0	6.5	7.0	7.5	7.0	7.5	10.0	9.0	9.5	7.0	6.5	7.0
28	8.0	7.0	7.5	7.5	7.0	7.5	9.5	8.5	9.0	7.0	6.5	7.0
29	7.5	6.5	7.0	8.0	7.0	7.5	8.5	8.5	8.5	7.5	6.5	7.0
30	8.0	6.5	7.0	7.5	7.0	7.5	8.5	8.0	8.5	8.0	7.0	7.5
31	---	---	---	7.5	7.0	7.0	8.0	8.0	8.0	---	---	---
MONTH	8.0	4.5	6.1	9.0	6.5	7.3	10.0	7.0	7.7	9.5	6.0	7.4

SOUTHEAST ALASKA

15087700 INDIAN RIVER AT SITKA

LOCATION.--Lat 57°03'12", long 135°18'52", in NE¹/₄ SW¹/₄ SE¹/₄ sec. 36, T. 55 S., R. 63 E. (Sitka A-4 quad), Hydrologic Unit 19010203, Greater Sitka Borough, in Tongass National Forest, on Baranof Island, on right bank 500 ft upstream from Sawmill Creek Road, 600 ft downstream from Sheldon Jackson College Diversion, and 0.6 mi above mouth.

DRAINAGE AREA.--12.0 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to current year.

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

REMARKS. Records good. Flow is diverted 600 ft upstream to Sheldon Jackson College.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	53	52	39	175	69	33	51	118	49	31	20
2	39	40	58	56	93	54	29	66	91	49	29	84
3	53	280	56	159	118	48	28	156	91	49	27	53
4	41	93	74	85	76	44	75	111	91	50	27	30
5	51	60	1110	107	64	44	53	69	93	102	25	241
6	142	52	199	90	56	47	41	55	88	71	24	101
7	134	70	98	65	60	57	35	64	91	134	23	69
8	107	56	76	69	53	60	46	154	94	88	23	71
9	218	43	61	63	47	74	54	103	93	71	23	47
10	171	36	53	51	42	619	40	70	113	75	22	36
11	1140	104	47	45	37	797	37	69	78	68	21	30
12	322	100	42	42	36	247	39	71	72	65	21	118
13	276	53	37	48	257	134	37	70	77	50	20	566
14	213	41	32	47	105	103	34	e70	76	40	20	502
15	289	47	29	51	61	88	34	70	66	40	19	130
16	151	43	28	62	51	84	36	66	61	37	19	121
17	102	90	27	56	46	79	45	60	59	34	18	105
18	77	50	34	50	43	72	52	58	62	32	18	87
19	68	48	32	49	41	63	44	53	78	30	18	111
20	65	51	25	43	38	55	45	53	76	29	17	83
21	65	151	23	52	37	50	46	63	55	29	17	58
22	86	221	25	68	36	47	48	95	51	30	16	73
23	100	201	30	78	33	43	49	118	62	33	16	53
24	76	134	30	57	31	41	63	83	61	56	15	44
25	59	100	34	46	29	44	52	63	58	63	15	39
26	50	106	34	41	92	47	49	59	56	48	17	33
27	44	120	30	124	235	41	57	71	59	35	57	38
28	38	71	29	108	96	43	51	87	63	32	27	32
29	33	54	28	60	---	39	48	93	56	37	20	35
30	35	46	35	61	---	39	47	90	51	41	18	420
31	80	---	43	185	---	50	---	149	---	33	18	---
TOTAL	4374	2614	2511	2157	2088	3322	1347	2510	2240	1600	681	3430
MEAN	141	87.1	81.0	69.6	74.6	107	44.9	81.0	74.7	51.6	22.0	114
MAX	1140	280	1110	185	257	797	75	156	118	134	57	566
MIN	33	36	23	39	29	39	28	51	51	29	15	20
MED	77	58	34	57	52	54	46	70	74	48	20	70
AC-FT	8680	5180	4980	4280	4140	6590	2670	4980	4440	3170	1350	6800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)#

	2000	1999	2000	1999	2001	1999	2000	1999	2000	1999	2000	1999
MEAN	204	69.1	129	84.6	42.4	63.1	68.7	97.4	95.1	60.6	42.7	150
MAX	248	87.1	240	125	74.6	107	108	139	130	67.7	59.4	209
(WY)	1999	2001	2000	1999	2001	2001	1999	1999	1999	2000	2000	2000
MIN	141	38.0	66.8	59.4	23.6	28.2	44.9	72.3	74.7	51.6	22.0	114
(WY)	2001	1999	1999	2000	1999	1999	2001	2000	2001	2001	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001

ANNUAL TOTAL	30341	28874	
ANNUAL MEAN	82.9	79.1	92.6
HIGHEST ANNUAL MEAN			103
LOWEST ANNUAL MEAN			79.1
HIGHEST DAILY MEAN	1590	Sep 4	1140
LOWEST DAILY MEAN	17	Mar 8	15
ANNUAL SEVEN-DAY MINIMUM	17	Mar 7	16
MAXIMUM PEAK FLOW			a4170
MAXIMUM PEAK STAGE			26.08
INSTANTANEOUS LOW FLOW			b14
ANNUAL RUNOFF (AC-FT)	60180	57270	67090
10 PERCENT EXCEEDS	151	122	167
50 PERCENT EXCEEDS	53	53	55
90 PERCENT EXCEEDS	23	29	23

e Estimated
a From rating curve extended above 1050 ft³/s
b Aug. 24 and 25
c Mar. 9, 1999 and Aug. 24 and 25, 2001

SOUTHEAST ALASKA

15087700 INDIAN RIVER AT SITKA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1967-68, January to September 2001.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July to September 2001.
WATER TEMPERATURE: May to September 2001.

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

REMARKS.--

SPECIFIC CONDUCTANCE: Probe installed May 16, no record May 16 to July 25 due to recorder problems. Record represents specific conductance at sensor within 3us/cm. No variation was found within the cross section measured on July 25. No variation was found between the mean stream specific conductance and specific conductance at the sensor.

WATER TEMPERATURE: Probe installed on May 16. Record represents water temperature at sensor within 0.5°C. No variation was found within the cross section on July 25. Temperature at the sensor was compared with stream average by cross sections on May 15 and July 25. No variation was found within the cross section. No variation was found between the mean stream temperature and temperature at the sensor.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

WATER TEMPERATURE.--Minimum observed, a temperature of 3.0°C was measured on April 4.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 66 us/cm, August 25; minimum recorded, 30 us/cm September 5, 14, 30.
WATER TEMPERATURE.--Maximum recorded, 10.0°C, several days in July and August; minimum recorded, 4.0°C May 25.

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

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300)	OXYGEN, DIS-SOLVED (MG/L) (00301)						
DATE	TIME	MEDIUM CODE	SAMPLE TYPE	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (84164)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
JUL														
25...	1201	15.0	40	7.1	8.5	760	11.7	100						
25...	1202	20.0	40	7.1	8.5	760	11.8	101						
25...	1203	25.0	40	7.1	8.5	760	12.0	103						
25...	1204	30.0	40	7.1	8.5	760	12.3	105						
25...	1205	35.0	40	7.1	8.5	760	12.0	103						
25...	1206	40.0	40	7.1	8.5	760	12.1	104						
25...	1207	45.0	40	7.1	8.5	760	12.3	105						
25...	1208	50.0	40	7.1	8.5	760	12.2	104						
JAN														
04...	1420	9	9	22.12	76	10	3045	42	7.4	--	--	14	4.73	
APR														
04...	1215	9	9	22.12	78	10	3045	40	7.3	3.0	14.1	14	4.71	
MAY														
15...	1500	9	9	22.08	75	10	3045	42	7.6	5.5	12.0	17	6.00	
15...	1530	9	9	--	--	8010	8010	--	--	--	--	--	--	
15...	1600	H	9	--	--	8010	8010	--	--	--	--	--	--	
JUL														
25...	1145	9	9	22.05	63	10	3045	40	7.1	8.5	12.0	15	5.22	
MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)														
SODIUM, DIS-SOLVED (MG/L AS NA) (00930)														
ANC WATER UNFLTRD PET FIELD SOLVED (MG/L AS CACO3) (00410)														
POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)														
BICAR-BONATE WATER DIS IT FIELD SOLVED (MG/L AS HCO3) (00453)														
ALKA-LINITY WAT DIS TOT IT FIELD SOLVED (MG/L AS CACO3) (39086)														
SULFATE DIS-SOLVED (MG/L AS SO4) (00945)														
CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)														
FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)														
SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)														
SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)														
SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)														
NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)														
JAN														
04...	.534	2.0	--	<.24	--	--	1.5	3.9	<.2	3.1	31	--	.001	
APR														
04...	.554	2.2	--	.21	13	11	1.7	4.0	<.2	3.3	34	23	.001	
MAY														
15...	.570	2.0	16	.12	18	14	1.3	3.8	<.2	3.0	30	26	<.001	
15...	--	--	--	--	--	--	--	--	--	--	--	--	--	
15...	--	--	--	--	--	--	--	--	--	--	--	--	--	
JUL														
25...	.559	2.3	--	.82	16	14	1.6	2.5	<.2	3.5	--	25	<.001	

SOUTHEAST ALASKA

15087700 INDIAN RIVER AT SITKA--Continued

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

DATE	METHANE 2CHLORO ETHOXY SED, BM WS, <2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS, <2MM DW, REC (UG/KG) (49456)	P- CRESOL SED, BM WS, <2MM DW, REC (UG/KG) (49451)
JAN 04...	--	--	--
APR 04...	--	--	--
MAY 15...	--	--	--
15...	--	--	--
15...	<50	<50	<50
JUL 25...	--	--	--

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	51	49	50	63	50	60
2	---	---	---	---	---	---	52	50	50	50	41	46
3	---	---	---	---	---	---	53	50	51	50	44	48
4	---	---	---	---	---	---	52	51	51	54	50	52
5	---	---	---	---	---	---	53	51	52	55	30	44
6	---	---	---	---	---	---	53	52	52	48	38	44
7	---	---	---	---	---	---	54	52	53	48	45	47
8	---	---	---	---	---	---	56	53	54	49	45	47
9	---	---	---	---	---	---	56	53	54	51	49	50
10	---	---	---	---	---	---	59	54	54	54	50	52
11	---	---	---	---	---	---	57	54	55	54	51	53
12	---	---	---	---	---	---	57	55	56	55	33	50
13	---	---	---	---	---	---	58	56	57	40	32	36
14	---	---	---	---	---	---	59	57	58	45	30	38
15	---	---	---	---	---	---	60	58	59	50	39	44
16	---	---	---	---	---	---	60	58	59	47	40	44
17	---	---	---	---	---	---	61	59	60	48	41	46
18	---	---	---	---	---	---	62	60	61	48	45	46
19	---	---	---	---	---	---	62	60	61	48	42	44
20	---	---	---	---	---	---	63	61	62	49	44	47
21	---	---	---	---	---	---	63	62	62	50	48	49
22	---	---	---	---	---	---	64	63	63	50	45	47
23	---	---	---	---	---	---	65	63	64	51	49	50
24	---	---	---	---	---	---	65	64	65	52	50	51
25	---	---	---	---	---	---	66	64	65	52	50	51
26	---	---	---	47	45	46	65	62	64	53	51	52
27	---	---	---	49	47	48	62	47	52	52	50	51
28	---	---	---	50	48	49	58	53	56	52	51	51
29	---	---	---	50	47	48	61	58	59	52	44	51
30	---	---	---	49	47	48	63	60	61	44	30	36
31	---	---	---	50	48	49	62	59	60	---	---	---
MONTH	---	---	---	---	---	---	66	47	57	63	30	48

SOUTHEAST ALASKA

15087700 INDIAN RIVER AT SITKA--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	6.0	4.5	5.0
17	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
18	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
19	---	---	---	---	---	---	---	---	---	6.5	4.5	5.5
20	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
21	---	---	---	---	---	---	---	---	---	6.0	5.0	5.0
22	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
23	---	---	---	---	---	---	---	---	---	5.0	4.5	4.5
24	---	---	---	---	---	---	---	---	---	6.0	4.5	5.0
25	---	---	---	---	---	---	---	---	---	7.0	4.0	5.0
26	---	---	---	---	---	---	---	---	---	7.0	4.5	5.5
27	---	---	---	---	---	---	---	---	---	6.5	5.0	5.5
28	---	---	---	---	---	---	---	---	---	7.0	5.0	6.0
29	---	---	---	---	---	---	---	---	---	5.5	5.0	5.5
30	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
31	---	---	---	---	---	---	---	---	---	5.5	5.0	5.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.0	4.5	5.0	9.0	7.0	7.5	8.5	7.5	8.0	9.0	8.5	8.5
2	6.0	5.0	5.5	9.5	7.0	8.0	9.0	7.5	8.0	9.5	8.5	9.0
3	6.0	5.0	5.5	9.0	7.5	8.0	8.5	7.5	8.0	9.0	8.5	8.5
4	6.5	5.0	5.5	8.0	7.5	7.5	8.5	7.5	8.0	9.5	8.0	8.5
5	6.0	5.0	5.5	8.0	7.5	7.5	9.5	7.5	8.5	9.5	8.0	8.5
6	6.0	5.0	5.5	7.5	7.0	7.5	9.0	7.5	8.0	9.0	8.0	8.5
7	7.0	5.5	6.0	8.0	7.0	7.5	9.0	7.5	8.0	8.0	7.5	8.0
8	7.5	5.5	6.0	7.5	7.0	7.0	10.0	7.5	8.5	8.0	7.5	8.0
9	6.0	5.5	6.0	7.5	7.0	7.0	10.0	7.5	8.5	8.0	6.5	7.0
10	6.0	5.5	5.5	8.0	7.0	7.0	10.0	7.5	8.5	7.5	6.5	7.0
11	6.0	5.5	5.5	7.5	7.0	7.0	9.0	8.0	8.5	7.0	6.5	7.0
12	6.0	5.5	6.0	7.0	6.5	7.0	10.0	7.5	8.5	9.0	7.0	7.5
13	7.0	5.5	6.0	7.0	7.0	7.0	10.0	7.5	8.5	9.0	8.5	8.5
14	7.0	5.5	6.0	7.5	7.0	7.0	9.0	8.0	8.5	9.0	8.0	8.5
15	7.0	5.5	6.0	8.0	7.0	7.5	10.0	8.0	9.0	9.0	7.5	8.0
16	7.5	6.0	6.5	8.0	7.0	7.5	10.0	8.0	9.0	8.5	8.0	8.0
17	7.0	6.0	6.5	9.0	6.5	7.5	9.0	8.5	8.5	9.0	7.5	8.0
18	8.5	6.0	7.0	7.5	7.5	7.5	9.0	8.0	8.5	8.0	7.5	8.0
19	7.5	6.5	7.0	9.5	7.0	8.0	9.0	8.0	8.5	8.0	7.5	8.0
20	7.0	6.5	7.0	10.0	7.5	8.5	9.0	8.5	8.5	8.0	7.0	7.5
21	7.5	6.5	6.5	10.0	7.5	8.5	9.5	8.5	9.0	7.5	7.0	7.0
22	7.0	6.0	6.5	8.5	8.0	8.0	9.5	8.0	9.0	7.5	7.0	7.5
23	6.5	6.0	6.5	8.5	8.0	8.0	9.0	8.5	8.5	7.5	7.0	7.0
24	7.5	6.0	7.0	9.0	8.0	8.5	9.0	8.5	8.5	7.0	7.0	7.0
25	7.5	6.5	7.0	8.5	8.0	8.0	9.5	8.5	9.0	7.0	6.5	7.0
26	9.0	6.5	7.5	8.5	8.0	8.0	9.5	8.5	9.0	7.0	6.5	7.0
27	9.0	6.5	7.5	8.0	7.5	8.0	10.0	9.0	9.5	7.0	7.0	7.0
28	8.5	7.0	8.0	8.5	7.5	8.0	10.0	9.0	9.5	7.5	7.0	7.0
29	8.5	7.0	7.5	8.5	7.5	8.0	9.5	9.0	9.0	7.0	6.5	7.0
30	9.0	7.0	7.5	8.0	7.5	8.0	9.5	9.0	9.0	8.0	7.0	7.5
31	---	---	---	8.0	7.5	7.5	9.0	8.5	8.5	---	---	---
MONTH	9.0	4.5	6.4	10.0	6.5	7.7	10.0	7.5	8.6	9.5	6.5	7.7

SOUTHEAST ALASKA

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 to September 2001. 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.-- No estimated daily discharges. Records good. Minor regulation above station by Sitka Public Utilities hydroelectric plant during periods 1920-23 and 1937-42. In 1959, Blue Lake Dam, 1.6 mi upstream, was completed. The area of the lake is 1225 acres. The dam is concrete with a spillway elevation of 342.0 ft above sea level. In 1960, the Blue Lake Hydro plant, located 400 ft downstream from gage, was put into operation. Water is taken from Blue Lake and piped via a penstock to Blue Lake hydro, through 2-3,000 kw turbines and discharged back into Sawmill Creek just below high tide level. This penstock also provides water for the City of Sitka and for the filter plant for the Sitka Sawmill. In the years following, Campground Hydro, a smaller generation plant was constructed about 1,000 ft below Blue Lake Dam. It also has a penstock from Blue Lake and discharges directly into Sawmill Creek. A fish bypass valve has been installed at Campground Hydro that automatically releases 50 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 FOR PERIOD OF RECORD.-- Maximum discharge, 10,700 ft³/s, November 19, 1993, by computation of peak flow on the basis of a slope-area computation 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; gage height unknown; minimum discharge 9.1 ft³/s, Mar. 4, 1951.

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.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge during period May to September, 2920 ft³/s, September 30, gage height 16.09 ft; minimum 59 ft³/s July 18-19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	90	80	528	722
2	---	---	---	---	---	---	---	---	87	80	456	1740
3	---	---	---	---	---	---	---	---	88	80	362	1150
4	---	---	---	---	---	---	---	---	87	81	287	584
5	---	---	---	---	---	---	---	---	74	87	229	586
6	---	---	---	---	---	---	---	---	79	85	179	1020
7	---	---	---	---	---	---	---	---	86	101	148	780
8	---	---	---	---	---	---	---	---	86	91	120	1000
9	---	†64	---	---	---	---	---	---	87	87	110	609
10	---	---	---	---	---	---	---	---	91	85	107	290
11	---	---	---	---	---	---	---	---	85	85	104	141
12	---	---	---	---	---	---	---	---	84	85	95	118
13	---	---	---	---	---	---	---	---	85	86	87	1120
14	---	---	---	---	---	---	---	---	84	87	96	1960
15	---	---	---	---	---	---	---	---	83	85	110	1190
16	---	---	---	---	---	---	---	---	83	86	111	967
17	---	---	---	---	---	---	---	79	82	81	98	649
18	---	---	---	---	---	---	---	80	83	64	80	527
19	---	---	---	---	---	---	---	80	84	71	67	508
20	---	---	---	---	---	---	---	81	83	78	100	415
21	---	---	---	---	---	---	---	83	82	78	551	243
22	---	---	---	---	---	---	---	87	81	78	622	251
23	---	---	---	---	---	---	---	90	82	82	373	218
24	---	---	---	---	---	---	---	86	82	263	251	186
25	---	---	---	---	---	---	---	83	81	463	207	204
26	---	---	---	---	---	---	---	84	81	407	359	160
27	---	---	---	---	---	---	---	87	81	326	1120	181
28	---	---	---	---	---	---	---	88	81	282	988	225
29	---	---	---	---	---	---	---	87	81	337	509	757
30	---	---	---	---	---	---	---	86	80	568	310	2370
31	---	---	---	---	---	---	---	97	---	574	251	---
TOTAL	---	---	---	---	---	---	---	---	2503	5123	9015	20871
MEAN	---	---	---	---	---	---	---	---	83.4	165	291	696
MAX	---	---	---	---	---	---	---	---	91	574	1120	2370
MIN	---	---	---	---	---	---	---	---	74	64	67	118

† Result of discharge measurement

SOUTHEAST ALASKA

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 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.4	e1.5	e1.3	5.1	2.7	2.1	2.6	6.4	1.6	.97	9.9
2	.84	3.3	e1.7	e2.0	3.6	2.4	2.1	5.1	6.3	1.7	.53	17
3	3.5	17	e1.6	e5.2	3.2	2.2	1.9	9.2	6.3	1.5	.33	3.6
4	1.2	2.6	e1.9	e3.2	2.3	1.9	2.6	4.6	7.7	2.6	.31	1.2
5	4.1	1.3	e25	e4.7	2.0	2.2	1.1	2.1	6.5	3.5	.24	15
6	8.7	1.8	e6.5	e4.4	1.8	2.8	1.3	1.3	5.9	2.3	.18	8.3
7	15	4.8	e5.5	3.0	1.9	3.5	1.9	5.1	6.5	3.9	.14	3.4
8	9.0	e1.7	e2.2	2.8	1.7	3.0	2.1	12	8.6	1.8	.14	3.6
9	16	e1.4	e2.7	2.3	1.6	3.0	2.4	4.3	7.9	1.5	.13	1.0
10	9.7	e1.2	e2.3	1.8	1.5	8.2	2.1	2.1	7.3	1.2	.12	.36
11	15	2.5	e2.0	1.6	1.5	7.4	2.0	2.8	3.3	.79	.11	.16
12	10	2.7	e1.7	1.5	1.5	3.8	1.5	4.0	3.7	1.1	.10	8.7
13	6.0	2.0	e1.5	1.6	7.5	2.7	1.3	4.6	5.9	1.2	.11	13
14	12	e1.2	e1.4	1.8	3.1	2.3	1.7	5.1	4.7	2.1	.10	8.0
15	10	e1.3	e1.3	3.0	2.3	2.2	2.1	4.8	3.1	1.3	.09	8.1
16	4.9	e1.2	e1.2	3.1	2.0	2.1	2.7	3.7	2.7	1.3	.09	2.6
17	2.2	e2.6	e1.1	3.0	1.8	2.3	4.3	2.7	3.1	1.0	.07	3.7
18	1.9	e1.8	e1.9	2.7	1.9	2.2	3.8	3.1	5.0	e.96	.06	3.6
19	2.2	e1.5	e1.7	2.8	2.0	1.8	3.7	3.6	7.4	e.90	.06	8.0
20	2.2	e1.8	e1.0	2.2	1.8	1.6	4.9	3.4	4.9	e.86	.07	1.9
21	1.6	e3.2	e1.1	3.0	2.2	1.5	5.1	3.9	2.9	e.81	.20	1.0
22	4.9	e4.4	e1.1	3.6	2.5	1.5	3.7	7.3	2.2	e.80	.10	2.0
23	5.4	e3.7	e1.2	3.4	2.0	1.5	2.4	6.8	3.8	e1.5	.09	1.4
24	3.6	e3.2	e1.1	2.6	1.8	1.6	3.8	3.8	2.4	7.4	.09	1.9
25	1.8	e2.9	e1.3	2.5	1.7	4.3	2.3	3.1	1.9	3.2	.16	1.5
26	1.1	e3.1	e1.2	2.1	6.3	3.2	4.0	3.9	2.3	2.3	2.5	1.1
27	.83	e3.5	e1.1	4.8	9.1	2.5	4.1	7.2	3.5	1.4	5.6	2.0
28	.52	e2.2	e1.1	3.1	3.3	2.3	2.4	8.1	2.8	1.7	.74	1.8
29	.39	e1.8	e1.0	2.3	---	2.5	2.4	5.7	1.6	3.9	.24	24
30	3.4	e1.4	e1.3	2.2	---	2.5	2.1	6.2	2.0	2.5	.19	17
31	6.3	---	e1.4	8.6	---	2.4	---	17	---	1.2	.25	---
TOTAL	165.68	85.5	78.6	92.2	79.0	86.1	79.9	159.2	138.6	59.82	14.11	174.82
MEAN	5.34	2.85	2.54	2.97	2.82	2.78	2.66	5.14	4.62	1.93	.46	5.83
MAX	16	17	25	8.6	9.1	8.2	5.1	17	8.6	7.4	5.6	24
MIN	.39	1.2	1.0	1.3	1.5	1.5	1.1	1.3	1.6	.79	.06	.16
MED	3.6	2.3	1.4	2.8	2.0	2.4	2.3	4.3	4.2	1.5	.14	3.5
AC-FT	329	170	156	183	157	171	158	316	275	119	28	347
CFSM	14.1	7.50	6.67	7.83	7.42	7.31	7.01	13.5	12.2	5.08	1.20	15.3
IN.	16.22	8.37	7.69	9.03	7.73	8.43	7.82	15.58	13.57	5.86	1.38	17.11

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

	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001	2000	2001
MEAN	6.43	3.70	5.13	2.33	1.96	2.57	2.39	5.43	5.41	3.43	2.23	6.09
MAX	7.52	4.56	7.73	2.97	2.82	2.78	2.66	5.73	6.20	4.93	4.00	6.36
(WY)	2000	2000	2000	2001	2001	2001	2001	2000	2000	2000	2000	2000
MIN	5.34	2.85	2.54	1.68	1.12	2.36	2.12	5.14	4.62	1.93	.46	5.83
(WY)	2001	2001	2001	2000	2000	2000	2000	2001	2001	2001	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 2000 - 2001

ANNUAL TOTAL	1382.27	1213.53		
ANNUAL MEAN	3.78	3.32		
HIGHEST ANNUAL MEAN			3.93	
LOWEST ANNUAL MEAN			4.54	2000
HIGHEST DAILY MEAN	41	Sep 4	3.32	2001
LOWEST DAILY MEAN	a.12	Jan 17	b.06	Aug 18 2001
ANNUAL SEVEN-DAY MINIMUM	.12	Jan 16	.08	Aug 14 2001
MAXIMUM PEAK FLOW			61	Sep 1
MAXIMUM PEAK STAGE			19.53	Sep 1
INSTANTANEOUS LOW FLOW			c.05	Aug 17
ANNUAL RUNOFF (AC-FT)	2740	2410	2850	
ANNUAL RUNOFF (CFSM)	9.94	8.75	10.4	
ANNUAL RUNOFF (INCHES)	135.32	118.80	140.64	
10 PERCENT EXCEEDS	8.3	7.3	8.3	
50 PERCENT EXCEEDS	2.4	2.3	2.6	
90 PERCENT EXCEEDS	.50	.84	.66	

a Jan. 17-20, and 25-26
b Aug. 18-19, 2001
c Aug. 17-19, 2001
e Estimated

SOUTHEAST ALASKA

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.--27 years (water years, 1916-25, 1985-2001), 317 ft³/s, 149.5 in/yr, 229,700 acre-ft/yr. Mean discharge for water years 1985-99 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 and November 27-29, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 91,050 acre-ft, September 29, elevation 397.9 ft; minimum contents observed, 62,280 acre-ft, April 26, elevation 366.5 ft; Maximum daily discharge (not adjusted for storage) 1,870 ft³/s, September 29; minimum daily discharge, 111 ft³/s, July 2.

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

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
SEP 30	395.9	88,950	
OCT 31	394.5	87,530	-1420
NOV 30	395.2	88,210	+680
DEC 31	388.2	81,540	-6670
JAN 31	385.2	78,690	-2850
FEB 28	380.3	74,270	-4420
MAR 31	371.9	66,870	-7400
APR 30	366.7	62,450	-4420
MAY 31	371.9	66,870	+4420
JUN 30	393.2	86,290	+19420
JUL 31	396.0	89,050	+2760
AUG 31	396.1	89,160	+110
SEP 30	397.7	90,840	+1680
		CAL YR 2000	-7300
		WTR YR 2001	-1890

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

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	183	415	598	575
NOV	208	83	290	302
DEC	202	104	306	198
JAN	205	0	205	159
FEB	200	0	200	123
MAR	221	0	221	101
APR	171	0	171	97
MAY	146	0	146	218
JUN	136	0	136	462
JUL	134	459	593	638
AUG	123	474	597	599
SEP	120	738	858	886
CAL YR 2000	202	143	345	335
WTR YR 2001	171	191	361	364

SOUTHEAST ALASKA

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 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	22	27	16	31	11	4.2	31	122	88	42	42
2	31	25	25	29	32	9.3	3.8	30	108	83	36	94
3	30	70	21	86	24	8.4	3.8	37	106	78	33	75
4	28	34	20	32	20	7.7	4.0	32	108	85	39	50
5	61	28	96	29	e14	7.2	4.1	28	107	91	36	64
6	87	26	50	25	e9.7	7.3	4.0	24	105	111	32	62
7	97	25	30	24	e9.5	9.1	4.7	35	107	105	29	71
8	88	22	25	26	e8.5	7.7	4.5	35	104	96	28	77
9	84	21	23	21	e7.9	8.5	4.7	30	104	99	28	52
10	71	21	21	20	e7.5	12	5.7	27	112	92	26	36
11	102	26	20	18	e7.3	25	8.0	34	104	86	24	30
12	109	28	19	17	e6.9	18	7.3	38	101	82	24	38
13	104	23	e18	16	e6.7	13	6.3	54	105	90	23	106
14	90	21	e17	15	e6.5	11	6.1	48	100	87	22	85
15	86	20	e16	15	e6.4	9.9	7.6	60	98	84	21	70
16	72	21	e16	15	e6.3	9.8	11	62	96	80	20	97
17	56	26	e15	25	e6.2	9.9	16	62	96	68	20	84
18	42	20	e15	22	e6.1	10	20	52	99	63	19	78
19	36	20	e14	19	e6.0	7.8	23	44	106	68	20	66
20	37	33	e14	17	e6.0	e7.0	22	47	132	74	23	72
21	37	74	e13	16	e5.9	e6.0	25	57	118	74	24	63
22	66	100	e13	17	e5.9	e5.5	28	96	100	85	21	78
23	67	85	e12	19	e5.8	e5.0	30	91	101	72	21	77
24	41	59	e12	17	e5.8	4.6	30	73	97	73	21	73
25	33	35	e12	16	7.0	5.7	26	63	90	72	22	76
26	30	30	e11	16	7.7	6.5	30	66	89	71	28	59
27	27	26	e10	21	32	5.2	54	80	98	61	89	48
28	25	24	11	20	17	4.6	42	89	104	48	38	47
29	23	22	13	16	---	4.4	34	96	93	59	37	56
30	23	21	23	15	---	4.3	32	99	87	59	31	122
31	24	---	19	22	---	4.2	---	129	---	44	33	---
TOTAL	1740	1008	651	682	315.6	265.6	501.8	1749	3097	2428	910	2048
MEAN	56.1	33.6	21.0	22.0	11.3	8.57	16.7	56.4	103	78.3	29.4	68.3
MAX	109	100	96	86	32	25	54	129	132	111	89	122
MIN	23	20	10	15	5.8	4.2	3.8	24	87	44	19	30
AC-FT	3450	2000	1290	1350	626	527	995	3470	6140	4820	1800	4060
CFMS	6.51	3.90	2.44	2.55	1.31	.99	1.94	6.55	12.0	9.09	3.41	7.92
IN.	7.51	4.35	2.81	2.94	1.36	1.15	2.17	7.55	13.37	10.48	3.93	8.84

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

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	61.3	30.5	26.2	15.1	13.9	12.2	30.7	80.3	88.9	56.6	40.4	60.7	
MAX	97.9	49.5	65.7	22.3	36.9	27.2	49.6	107	147	90.5	69.7	95.0	
(WY)	1999	1994	1990	1991	1992	1992	1994	1992	1992	2000	1991	1991	
MIN	34.7	14.6	8.27	5.50	3.42	5.43	16.7	56.4	59.5	31.5	18.7	33.3	
(WY)	1994	1991	1997	1997	1999	1997	2001	2001	1998	1998	1994	1995	

See period of record
e Estimated

SOUTHEAST ALASKA

15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1989 - 2001#	
ANNUAL TOTAL	17348.2		15396.0			
ANNUAL MEAN	47.4		42.2		43.3	
HIGHEST ANNUAL MEAN					60.1	1992
LOWEST ANNUAL MEAN					31.8	1998
HIGHEST DAILY MEAN	133	Sep 16	132	Jun 20	465	Oct 20 1998
LOWEST DAILY MEAN	5.0	Mar 9	a3.8	Apr 2	b1.9	Mar 22 1991
ANNUAL SEVEN-DAY MINIMUM	5.2	Mar 4	4.0	Mar 31	1.9	Mar 21 1991
MAXIMUM PEAK FLOW			161	Oct 12	c710	Oct 20 1998
MAXIMUM PEAK STAGE			2.63	Oct 12	d14.79	Oct 20 1998
ANNUAL RUNOFF (AC-FT)	34410		30540		31350	
ANNUAL RUNOFF (CFSM)	5.50		4.89		5.02	
ANNUAL RUNOFF (INCHES)	74.87		66.44		68.22	
10 PERCENT EXCEEDS	98		97		91	
50 PERCENT EXCEEDS	33		28		32	
90 PERCENT EXCEEDS	8.8		7.0		6.7	

See Period of Record

a Apr. 2 and 3

b Mar. 22 to Mar. 27, 1991

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

d Same site, different datum

SOUTHEAST ALASKA

15102200 FAVORITE CREEK NEAR ANGOON

LOCATION.--Lat 57°26'52", long 134°27'35", in SE¹/₄ NE¹/₄ SW¹/₄ sec. 14, T. 51 S., R. 68 E. (Sitka B-2 quad), Hydrologic Unit 19010204, in Tongass National Forest, on Admiralty Island, on right bank 1.2 mi upstream from confluence with North Fork Favorite Creek, 2.2 miles from the mouth of Favorite Creek and about 5.7 mi south east of Angoon.

DRAINAGE AREA.--2.52 mi²

PERIOD OF RECORD.--November 2000 to September 2001.

GAGE.--Water-stage recorder. Elevation of gage is 370 ft above sea level, from topographic map.

REMARKS.-- Records fair, except for discharges above 53 ft³/s, and estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during the period November through September, 244 ft³/s, gage height 11.16 ft, December 1; minimum daily about 2.2 ft³/s, March 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	69	16	23	5.5	e2.7	14	42	21	8.8	21
2	---	---	35	45	44	4.4	e2.4	16	32	21	8.9	32
3	---	---	23	82	22	3.7	e2.3	22	27	19	8.1	25
4	---	---	19	29	14	3.3	e3.4	12	31	24	7.4	17
5	---	---	95	31	11	3.5	e3.1	9.6	36	23	6.9	17
6	---	---	32	17	9.6	12	2.8	8.1	34	30	6.5	15
7	---	---	22	35	8.5	20	2.6	32	36	30	6.1	12
8	---	---	18	33	7.6	6.9	2.5	29	35	26	5.9	11
9	---	---	14	29	6.7	5.6	2.7	14	32	30	5.8	9.0
10	---	---	12	15	6.0	9.7	2.7	11	34	25	5.5	7.7
11	---	---	11	12	5.4	19	3.4	12	28	20	5.1	6.7
12	---	---	9.3	9.7	5.1	8.4	5.4	13	26	19	4.8	6.3
13	---	---	8.1	7.5	6.1	5.7	3.7	15	27	24	4.5	7.9
14	---	---	6.7	7.1	5.3	4.7	3.4	15	29	21	4.3	7.5
15	---	---	6.2	9.1	4.6	4.5	3.4	18	27	20	4.3	9.7
16	---	---	5.7	8.8	4.1	4.6	3.6	26	26	19	4.2	12
17	---	---	5.6	43	3.8	4.6	4.5	25	26	16	4.2	12
18	---	---	13	22	3.6	e4.0	7.5	19	26	15	4.4	13
19	---	---	6.7	26	3.4	e3.2	5.8	16	31	16	4.3	12
20	---	---	5.4	14	3.3	e2.8	5.8	18	55	17	5.6	14
21	---	---	4.7	17	3.2	e2.5	6.4	19	43	16	5.9	13
22	---	---	4.3	29	3.1	e2.4	10	25	32	15	5.7	15
23	---	---	3.9	24	3.0	e2.2	18	24	28	14	5.3	16
24	---	---	4.3	14	2.8	e2.4	21	20	27	12	5.0	21
25	---	---	9.6	11	2.7	e2.5	11	17	24	11	5.2	28
26	---	---	6.1	9.5	7.1	e3.2	20	17	21	9.8	8.1	20
27	---	---	4.3	35	72	e3.1	29	17	21	9.5	31	18
28	---	14	4.1	17	9.9	e3.0	16	19	28	9.3	13	16
29	---	11	6.9	11	---	e2.9	23	23	25	9.0	12	28
30	---	9.8	22	9.1	---	e2.8	26	24	21	9.0	11	36
31	---	---	11	29	---	e3.5	---	43	---	8.4	12	---
TOTAL	---	---	497.9	696.8	300.9	166.6	254.1	592.7	910	559.0	229.8	478.8
MEAN	---	---	16.1	22.5	10.7	5.37	8.47	19.1	30.3	18.0	7.41	16.0
MAX	---	---	95	82	72	20	29	43	55	30	31	36
MIN	---	---	3.9	7.1	2.7	2.2	2.3	8.1	21	8.4	4.2	6.3
MED	---	---	9.3	17	5.7	3.7	4.1	18	28	19	5.8	14
AC-FT	---	---	988	1380	597	330	504	1180	1800	1110	456	950
CFSM	---	---	6.37	8.92	4.26	2.13	3.36	7.59	12.0	7.16	2.94	6.33
IN.	---	---	7.35	10.29	4.44	2.46	3.75	8.75	13.43	8.25	3.39	7.07

e Estimated

SOUTHEAST ALASKA

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE

LOCATION.--Lat 57°39'46", long 135°11'06", in NW¹/₄ SE¹/₄ sec. 34, T. 48 S., R. 63 E. (Sitka C-4 quad), Greater Sitka Borough, Hydrologic Unit 19010203, on Chichagof Island, in Tongass National Forest, on right bank 0.6 mi upstream from Hook Creek, 3.5 mi upstream from mouth at Kadashan Bay, and 9 mi south of Tenakee.

DRAINAGE AREA.--10.2 mi².

WATER-DISCHARGE RECORDS

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*)

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Oct. 11	0145	619	3.84	Jan. 3	1030	695	3.99
Dec. 5	0730	732	4.06	Sept. 13	0045	*1200	*4.82

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	68	106	83	115	39	19	62	99	23	14	90
2	35	59	70	150	93	30	16	74	66	25	13	130
3	39	139	47	439	67	25	15	111	61	25	12	53
4	33	57	55	155	46	22	27	74	84	23	14	36
5	105	42	440	112	37	21	23	48	78	27	12	142
6	226	43	120	119	31	43	20	38	65	81	12	112
7	181	77	66	78	29	75	17	64	66	87	12	66
8	89	50	51	76	27	49	21	162	62	55	11	50
9	138	38	41	75	24	77	26	108	66	59	10	34
10	112	33	36	46	22	187	20	55	80	45	9.8	28
11	256	86	32	36	36	243	22	62	54	32	9.5	24
12	198	83	29	32	20	116	40	70	50	35	9.3	184
13	113	46	24	32	68	58	25	70	67	65	9.1	723
14	82	38	e19	45	37	43	24	63	58	36	8.8	190
15	124	51	e17	65	e19	40	22	72	47	29	8.6	104
16	76	57	e18	51	e17	42	22	65	46	26	8.6	130
17	60	113	e18	98	e16	40	29	64	47	22	8.5	104
18	52	46	44	78	e15	34	42	70	49	20	9.4	86
19	50	42	37	57	e14	24	47	64	53	19	11	89
20	65	72	25	43	e14	e20	38	60	82	17	22	71
21	77	144	21	53	16	e17	40	87	51	16	34	55
22	151	198	24	83	16	e16	39	102	40	16	20	74
23	168	152	18	76	15	e14	52	84	39	15	16	64
24	74	123	18	43	e14	e16	83	61	37	15	13	53
25	52	88	32	34	14	17	52	49	33	14	13	56
26	44	95	30	32	49	25	52	49	31	14	31	43
27	39	86	23	85	278	23	79	60	32	13	129	41
28	35	55	27	64	63	22	58	67	33	13	39	42
29	31	43	51	38	---	21	72	77	28	13	38	103
30	62	38	111	32	---	20	69	67	24	13	46	240
31	143	---	91	186	---	28	---	149	---	12	39	---
TOTAL	2956	2262	1741	2596	1212	1447	1111	2308	1628	905	642.6	3217
MEAN	95.4	75.4	56.2	83.7	43.3	46.7	37.0	74.5	54.3	29.2	20.7	107
MAX	256	198	440	439	278	243	83	162	99	87	129	723
MIN	31	33	17	32	14	14	15	38	24	12	8.5	24
AC-FT	5860	4490	3450	5150	2400	2870	2200	4580	3230	1800	1270	6380
CFSM	9.35	7.39	5.51	8.21	4.24	4.58	3.63	7.30	5.32	2.86	2.03	10.5
IN.	10.78	8.25	6.35	9.47	4.42	5.28	4.05	8.42	5.94	3.30	2.34	11.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY)#

	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		
MEAN	118	77.3	64.3	50.0	48.6	44.9	67.9	102	66.9	31.0	32.6	75.4																								
MAX	234	152	147	147	118	129	118	182	151	60.2	79.0	141																								
(WY)	1975	1975	2000	1985	1985	1994	1994	1972	1972	1970	1983	1981																								
MIN	50.6	17.7	8.05	6.15	5.95	9.21	28.2	42.0	19.8	6.41	9.44	17.5																								
(WY)	1970	1974	1978	1969	1969	1974	1972	1981	1998	1989	1977	1986																								

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

SOUTHEAST ALASKA

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1968 - 2001#	
ANNUAL TOTAL	22409		22025.6			
ANNUAL MEAN	61.2		60.3		64.8	
HIGHEST ANNUAL MEAN					80.8	1992
LOWEST ANNUAL MEAN					44.1	1978
HIGHEST DAILY MEAN	511	Sep 16	723	Sep 13	1010	Oct 19 1998
LOWEST DAILY MEAN	14	Jan 24	8.5	Aug 17	a3.2	Jul 28 1989
ANNUAL SEVEN-DAY MINIMUM	15	Feb 12	8.9	Aug 12	4.2	Jan 13 1974
MAXIMUM PEAK FLOW			b1200	Sep 13	b1970	Oct 8 1990
MAXIMUM PEAK STAGE			4.82	Sep 13	5.83	Oct 8 1990
INSTANTANEOUS LOW FLOW			7.7	Aug 17	3.2	Jul 28 1989
ANNUAL RUNOFF (AC-FT)	44450		43690		46970	
ANNUAL RUNOFF (CFSM)	6.00		5.92		6.36	
ANNUAL RUNOFF (INCHES)	81.73		80.33		86.36	
10 PERCENT EXCEEDS	110		114		141	
50 PERCENT EXCEEDS	50		46		43	
90 PERCENT EXCEEDS	19		15		12	

- # See Period of Record; partial years used in monthly summary statistics
a Jul. 28 to Jul. 29, 1989
b 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

SOUTHEAST ALASKA

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 section on April 6. No variation was found in the temperature cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 13.0°C, August 14 and 15; minimum, 0.0°C, on many days during winter.

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

DATE	TIME	STREAM WIDTH (FT) (000004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	GAGE HEIGHT (FEET) (000065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (000020)
APR							
06...	1457	25.8	24.1	1.50	19	2.0	4.5
06...	1458	25.8	20.1	1.50	19	2.0	4.5
06...	1459	25.8	16.1	1.50	19	2.0	4.5
06...	1500	25.8	12.1	1.50	19	2.0	4.5
06...	1501	25.8	8.10	1.50	19	2.0	4.5
06...	1502	25.8	4.10	1.50	19	2.0	4.5

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	4.0	4.5	4.5	3.5	4.0	3.0	2.5	2.5	2.0	1.5	1.5
2	4.5	4.0	4.0	5.0	4.5	4.5	3.5	3.0	3.0	2.0	1.0	1.5
3	4.5	3.5	4.0	5.0	4.5	5.0	3.5	3.0	3.0	2.0	1.5	1.5
4	4.5	3.5	4.0	4.5	3.0	4.0	3.5	3.0	3.5	2.5	2.0	2.0
5	6.5	4.5	5.5	4.0	3.0	3.5	4.0	3.0	3.5	2.5	1.5	2.0
6	7.5	6.5	7.0	4.0	4.0	4.0	4.0	3.0	3.5	2.5	2.0	2.0
7	7.5	6.5	7.0	4.5	4.0	4.0	3.0	3.0	3.0	3.0	2.5	3.0
8	6.5	6.0	6.0	4.5	4.0	4.0	3.0	2.0	2.5	3.0	2.5	2.5
9	6.5	6.5	6.5	4.0	3.0	3.5	2.0	1.5	1.5	2.5	2.0	2.0
10	6.5	6.0	6.0	3.5	3.0	3.5	2.0	1.5	2.0	2.0	1.5	1.5
11	7.0	6.0	6.5	4.5	3.5	4.0	2.0	2.0	2.0	2.0	1.5	2.0
12	8.0	7.0	7.5	4.5	4.5	4.5	2.0	1.0	2.0	1.5	1.0	1.5
13	7.5	6.5	7.0	4.5	3.5	4.0	1.0	.0	.5	2.0	1.5	1.5
14	6.5	6.0	6.5	4.5	4.0	4.0	.0	.0	.0	2.0	1.5	2.0
15	6.5	6.0	6.5	4.5	3.5	4.0	.0	.0	.0	2.0	1.5	2.0
16	6.5	6.0	6.0	4.0	3.5	4.0	.0	.0	.0	2.5	2.0	2.0
17	6.5	5.5	6.0	4.0	4.0	4.0	1.0	.0	.5	2.5	2.0	2.5
18	5.5	5.0	5.5	4.0	3.0	3.5	1.0	.0	.5	3.0	2.5	2.5
19	6.0	5.5	5.5	4.0	3.5	3.5	1.0	.5	1.0	3.0	2.5	2.5
20	6.0	5.5	5.5	5.0	4.0	4.5	1.0	.5	1.0	3.0	2.5	2.5
21	5.5	5.0	5.0	5.0	5.0	5.0	1.0	.0	.5	3.0	2.5	2.5
22	6.0	5.0	5.5	5.5	5.0	5.0	.5	.0	.0	2.5	2.5	2.5
23	6.0	5.5	6.0	5.0	4.0	4.0	1.0	.5	1.0	2.5	2.0	2.5
24	5.5	5.0	5.5	4.0	4.0	4.0	1.5	1.0	1.5	2.5	2.0	2.0
25	5.5	5.0	5.5	4.0	4.0	4.0	1.5	1.0	1.5	2.5	2.0	2.5
26	5.5	4.5	5.0	4.0	3.5	4.0	1.5	1.0	1.0	3.0	2.5	2.5
27	5.0	4.5	4.5	4.0	3.0	3.5	1.5	1.5	1.5	3.0	2.5	2.5
28	4.5	4.0	4.5	3.0	2.5	3.0	1.5	1.5	1.5	2.5	1.5	2.0
29	4.0	2.5	3.0	2.5	2.5	2.5	1.5	.5	1.0	2.0	1.5	2.0
30	3.5	2.5	3.0	3.0	2.5	2.5	1.5	.5	1.0	2.0	1.5	2.0
31	4.0	3.5	4.0	---	---	---	1.5	1.0	1.5	1.5	1.5	1.5
MONTH	8.0	2.5	5.4	5.5	2.5	3.9	4.0	.0	1.5	3.0	1.0	2.1

SOUTHEAST ALASKA

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	1.5	2.0	1.5	1.0	1.0	2.0	.5	1.0	4.5	2.5	3.5
2	2.5	2.0	2.5	2.0	1.0	1.5	2.0	.5	1.5	3.5	3.0	3.5
3	2.5	2.0	2.5	1.5	1.0	1.5	2.0	1.0	1.5	4.0	2.5	3.5
4	2.0	1.5	1.5	1.5	.5	1.0	1.5	1.0	1.0	4.0	3.0	3.5
5	2.0	1.0	1.5	1.5	1.0	1.5	2.0	1.0	1.5	4.0	2.5	3.5
6	1.5	1.0	1.5	1.5	1.0	1.5	2.0	1.0	1.5	4.0	2.5	3.5
7	2.0	1.5	1.5	1.5	1.0	1.0	2.5	1.0	1.5	4.0	3.5	3.5
8	2.0	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	3.5	3.0	3.5
9	1.0	.5	1.0	1.5	1.5	1.5	2.5	1.0	1.5	4.5	3.0	3.5
10	.5	.0	.5	1.5	1.0	1.0	2.5	1.0	1.5	4.5	3.0	4.0
11	.5	.0	.0	1.5	1.0	1.5	2.5	1.5	2.0	5.0	4.0	4.5
12	1.0	.5	1.0	2.0	1.0	2.0	2.5	1.0	1.5	5.5	3.5	4.5
13	1.0	.0	.5	3.0	1.5	2.5	2.5	1.0	2.0	5.5	4.0	4.5
14	.5	.0	.0	3.0	2.0	2.5	3.5	2.0	2.5	5.5	4.0	4.5
15	.0	.0	.0	3.0	2.5	3.0	3.0	1.5	2.5	5.5	3.5	4.5
16	.0	.0	.0	3.0	2.0	2.5	3.5	1.5	2.5	5.0	3.5	4.5
17	.0	.0	.0	2.5	2.0	2.0	3.0	2.0	2.5	5.5	3.5	4.5
18	.0	.0	.0	2.0	1.0	2.0	3.5	2.0	2.5	5.0	4.0	4.5
19	.0	.0	.0	1.0	.0	.5	3.5	2.0	2.5	5.5	3.5	4.5
20	.5	.0	.0	.0	.0	.0	3.5	1.5	2.5	4.5	3.5	4.0
21	1.0	.5	1.0	.0	.0	.0	4.0	2.0	3.0	5.5	4.0	4.5
22	1.0	.5	1.0	.5	.0	.0	3.5	2.0	3.0	5.5	4.0	4.5
23	.5	.0	.5	.0	.0	.0	3.5	2.5	3.0	5.0	4.0	4.5
24	.5	.0	.0	1.0	.0	.0	3.5	2.5	3.0	5.5	3.5	4.5
25	1.0	.0	.5	1.5	.5	1.0	4.5	2.5	3.5	5.5	3.5	4.5
26	1.0	.0	.5	1.5	1.0	1.0	3.5	3.0	3.5	6.5	3.5	5.0
27	.5	.0	.0	1.5	1.0	1.0	4.0	3.0	3.5	6.0	5.0	5.5
28	1.0	.5	1.0	1.0	.5	1.0	4.0	2.5	3.5	6.5	4.0	5.0
29	---	---	---	2.0	.5	1.0	4.0	3.0	3.5	5.0	4.0	4.5
30	---	---	---	1.0	1.0	1.0	4.5	3.0	3.5	5.0	4.0	4.5
31	---	---	---	1.5	.5	1.0	---	---	---	5.5	4.5	5.0
MONTH	2.5	.0	.8	3.0	.0	1.2	4.5	.5	2.3	6.5	2.5	4.3

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	4.0	5.0	9.5	8.0	9.0	10.5	10.0	10.0	10.0	9.5	9.5
2	5.5	4.5	5.0	10.0	8.5	9.0	11.5	10.0	10.5	9.5	9.0	9.5
3	6.0	4.5	5.0	10.5	9.0	9.5	11.5	10.5	11.0	9.5	8.5	9.0
4	6.0	4.5	5.0	9.5	9.0	9.0	11.5	10.5	11.0	9.5	8.5	9.0
5	6.5	4.5	5.5	9.0	8.5	8.5	12.0	10.5	11.0	10.0	9.0	9.5
6	6.5	5.0	5.5	9.0	8.5	8.5	11.5	10.0	11.0	9.5	9.0	9.0
7	6.5	5.0	6.0	9.0	8.0	8.5	12.0	10.5	11.0	9.5	8.5	9.0
8	7.5	5.0	6.0	8.5	8.0	8.0	12.0	10.0	11.0	9.0	8.5	8.5
9	7.0	5.5	6.5	9.0	8.0	8.5	12.0	9.5	11.0	8.5	7.5	8.0
10	6.0	5.5	5.5	9.0	8.0	8.5	12.0	9.5	11.0	8.0	6.5	7.5
11	6.0	5.0	5.5	9.0	8.0	8.5	11.5	10.5	11.0	8.0	7.0	7.5
12	6.5	5.5	6.0	8.5	8.0	8.0	12.5	10.0	11.0	9.0	8.0	8.5
13	6.5	5.5	6.0	9.0	8.5	8.5	12.5	10.0	11.0	9.5	9.0	9.5
14	7.5	5.5	6.5	9.0	8.0	8.5	13.0	10.5	11.5	9.5	9.0	9.0
15	7.0	5.5	6.0	10.0	8.5	9.0	13.0	11.0	12.0	9.5	8.5	9.0
16	7.5	6.0	7.0	9.5	9.0	9.5	12.5	10.0	11.5	9.5	9.5	9.5
17	7.5	6.5	7.0	10.5	8.5	9.5	11.5	11.0	11.5	10.0	9.0	9.5
18	8.5	6.5	7.5	10.5	9.5	10.0	11.5	11.0	11.5	9.5	9.0	9.0
19	7.5	7.0	7.0	12.0	9.5	10.5	11.5	11.0	11.0	9.0	8.5	9.0
20	8.0	6.5	7.0	12.5	10.0	11.0	11.0	10.5	11.0	9.0	8.5	8.5
21	7.5	6.5	7.0	12.5	10.0	11.5	11.5	10.5	11.0	8.5	8.0	8.5
22	7.5	6.5	7.0	12.0	11.0	11.5	11.0	10.0	10.5	8.5	8.0	8.5
23	7.5	7.0	7.0	11.0	10.0	10.5	10.5	10.0	10.5	8.5	7.5	8.0
24	9.0	6.5	7.5	10.5	10.0	10.5	10.5	10.0	10.5	8.0	8.0	8.0
25	8.0	6.0	7.0	10.5	10.0	10.0	11.0	10.0	10.5	8.0	7.5	8.0
26	9.0	6.5	8.0	10.5	10.0	10.0	11.0	10.0	10.5	8.0	7.0	7.5
27	10.0	7.5	9.0	10.5	10.0	10.0	11.0	10.5	10.5	8.0	7.5	7.5
28	9.5	8.5	9.0	10.5	9.5	10.0	10.5	10.0	10.5	8.0	7.5	7.5
29	9.0	7.5	8.5	11.5	10.0	10.5	10.5	10.0	10.0	8.0	7.0	7.5
30	10.0	8.0	9.0	10.5	10.0	10.5	11.0	10.0	10.5	8.0	7.5	8.0
31	---	---	---	10.5	10.0	10.0	10.5	9.5	10.0	---	---	---
MONTH	10.0	4.0	6.7	12.5	8.0	9.5	13.0	9.5	10.9	10.0	6.5	8.6

SOUTHEAST ALASKA

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.--No estimated daily discharges. Records fair.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.75	.98	.58	.92	.61	.30	.33	.93	.47	.25	.27
2	.56	.75	.84	.78	.90	.54	.27	.36	1.0	.47	.24	.39
3	.55	.80	.74	2.2	.83	.48	.28	.45	1.0	.47	.24	.29
4	.52	.71	.77	1.8	.77	.44	.31	.45	.99	.44	.25	.24
5	.58	.72	2.5	2.1	.71	.43	.32	.40	.99	.42	.23	.36
6	.92	.72	1.9	1.7	.65	.47	.30	.39	.98	.46	.21	.34
7	1.0	.71	1.8	1.2	.61	.52	.28	.43	.96	.45	.20	.31
8	1.1	.64	1.3	1.0	.57	.45	.28	.58	.98	.41	.20	.29
9	1.3	.60	1.1	.98	.53	.45	.29	.59	1.0	.40	.19	.28
10	1.2	.58	.95	.79	.49	.76	.26	.50	1.0	.38	.19	.28
11	2.1	.66	.86	.70	.44	1.2	.28	.49	1.1	.36	.20	.28
12	2.6	.64	.80	.65	.44	.99	.30	.49	1.0	.36	.19	.51
13	2.4	.57	.74	.63	.62	.71	.25	.48	.97	.39	.19	2.1
14	2.1	.56	.65	.65	.45	.63	.24	.48	.93	.36	.19	2.3
15	1.9	.56	.58	.65	.40	.62	.23	.48	.88	.35	.19	1.9
16	1.5	.57	.59	.59	.39	.61	.24	.48	.85	.35	.18	1.6
17	1.2	.69	.56	.69	.38	.58	.25	.48	.81	.34	.18	1.2
18	1.1	.57	.72	.64	.38	.53	.26	.50	.79	.33	.17	1.0
19	.97	.57	.59	.59	.37	.44	.25	.48	.78	.32	.17	.92
20	.97	.61	.53	.58	.36	.37	.24	.48	.80	.32	.22	.85
21	.92	.71	.50	.56	.36	.35	.24	.51	.84	.32	.24	.81
22	1.0	1.0	.46	.60	.35	.34	.25	.52	.82	.30	.19	.76
23	1.4	1.7	.44	.62	.33	.33	.27	.53	.75	.28	.18	.69
24	1.2	1.6	.44	.56	.33	.36	.30	.54	.67	.27	.17	.67
25	1.1	1.5	.50	.53	.32	.38	.27	.54	.61	.26	.17	.63
26	1.0	1.3	.45	.51	.44	.37	.27	.56	.59	.27	.21	.58
27	.93	1.2	.41	.65	1.9	.37	.29	.58	.57	.26	.35	.54
28	.85	1.0	.44	.60	.75	.36	.29	.59	.54	.25	.21	.53
29	.75	.94	.49	.54	---	.33	.36	.60	.49	.25	.20	.58
30	.81	.86	.59	.51	---	.34	.35	.64	.49	.24	.21	.72
31	.90	---	.57	1.0	---	.36	---	.77	---	.25	.21	---
TOTAL	36.03	24.79	24.79	26.18	15.99	15.72	8.32	15.70	25.11	10.80	6.42	22.22
MEAN	1.16	.83	.80	.84	.57	.51	.28	.51	.84	.35	.21	.74
MAX	2.6	1.7	2.5	2.2	1.9	1.2	.36	.77	1.1	.47	.35	2.3
MIN	.52	.56	.41	.51	.32	.33	.23	.33	.49	.24	.17	.24
MED	1.0	.71	.59	.65	.44	.45	.28	.49	.87	.35	.20	.58
AC-FT	.71	.49	.49	.52	.32	.31	.17	.31	.50	.21	.13	.44
CFSM	9.69	6.89	6.66	7.04	4.76	4.23	2.31	4.22	6.98	2.90	1.73	6.17
IN.	11.17	7.68	7.68	8.12	4.96	4.87	2.58	4.87	7.78	3.35	1.99	6.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)#

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	2.07	1.74	2.28	.66	.43	.45	.35	.56	.79	.45	.30	1.03
MAX	2.98	2.65	3.75	.84	.57	.51	.43	.61	.84	.65	.38	1.34
(WY)	2000	2000	2000	2001	2001	2001	2000	2000	2001	1999	1999	2000
MIN	1.16	.83	.80	.47	.30	.40	.28	.51	.74	.35	.21	.74
(WY)	2001	2001	2001	2000	2000	2000	2001	2001	2000	2001	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1999 - 2001#

ANNUAL TOTAL	236.31	232.07	
ANNUAL MEAN	.65	.64	.92
HIGHEST ANNUAL MEAN			1.20
LOWEST ANNUAL MEAN			.64
HIGHEST DAILY MEAN	7.8 Sep 17	2.6 Oct 12	31 Dec 27 1999
LOWEST DAILY MEAN	.23 Mar 12	.17 Aug 18	.17 Aug 18 2001
ANNUAL SEVEN-DAY MINIMUM	.25 Mar 8	.18 Aug 13	.18 Aug 13 2001
MAXIMUM PEAK FLOW		4.1 Feb 27	a66 Dec 27 1999
MAXIMUM PEAK STAGE		4.29 Feb 27	5.16 Dec 27 1999
INSTANTANEOUS LOW FLOW		b.15 Aug 16	b.15 Aug 16 2001
ANNUAL RUNOFF (AC-FT)	469	460	665
ANNUAL RUNOFF (CFSM)	5.38	5.30	7.65
ANNUAL RUNOFF (INCHES)	73.26	71.94	103.93
10 PERCENT EXCEEDS	1.0	1.1	1.2
50 PERCENT EXCEEDS	.51	.54	.52
90 PERCENT EXCEEDS	.29	.25	.27

See Period of Record; partial years used in monthly statistics

a From rating curve extended above 3.0 ft³/s

b Aug. 16 and 25, 2001

SOUTHEAST ALASKA

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 September 2001.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 2000 to September 2001

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

REMARKS.--Records represent water temperature at the sensor within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 9.0°C, August 4 and 5, 2000 and August 13-16, 20 and 27, 2001; minimum, 0.5°C, on several days during winter.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 9.0°C, August 13-16, 20 and 27; minimum, 0.5°C, on several days during winter.

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.0	8.0	8.0	8.0	7.5	7.5
2	---	---	---	---	---	---	8.5	7.5	8.0	7.5	6.5	7.5
3	---	---	---	---	---	---	8.5	8.0	8.0	7.5	6.5	7.0
4	---	---	---	---	---	---	9.0	8.0	8.5	8.0	7.5	8.0
5	---	---	---	---	---	---	9.0	8.5	8.5	8.0	8.0	8.0
6	---	---	---	---	---	---	8.5	8.0	8.0	8.5	8.0	8.0
7	---	---	---	---	---	---	8.5	8.0	8.5	8.0	7.5	8.0
8	---	---	---	---	---	---	8.5	8.0	8.0	7.5	7.0	7.5
9	---	---	---	---	---	---	8.5	8.0	8.0	7.5	7.0	7.5
10	---	---	---	7.5	7.5	7.5	8.5	8.0	8.0	7.5	7.0	7.0
11	---	---	---	7.5	7.0	7.5	8.5	7.5	8.0	7.5	7.0	7.5
12	---	---	---	7.5	7.0	7.5	8.5	8.0	8.0	7.5	7.0	7.5
13	---	---	---	7.5	7.0	7.5	8.5	8.0	8.0	7.5	7.0	7.0
14	---	---	---	7.5	7.0	7.5	8.5	8.0	8.0	7.5	7.0	7.0
15	---	---	---	8.0	7.5	7.5	8.5	8.5	8.5	7.0	7.0	7.0
16	---	---	---	8.0	7.5	7.5	8.5	8.0	8.5	7.0	7.0	7.0
17	---	---	---	7.5	7.5	7.5	8.5	8.0	8.5	7.0	6.5	6.5
18	---	---	---	7.5	7.5	7.5	8.5	7.5	8.0	6.5	6.0	6.5
19	---	---	---	8.0	7.5	7.5	8.0	8.0	8.0	6.0	6.0	6.0
20	---	---	---	8.0	7.5	7.5	8.5	8.0	8.5	6.0	5.5	6.0
21	---	---	---	8.0	7.5	7.5	8.5	8.0	8.5	6.0	5.5	5.5
22	---	---	---	8.0	7.5	8.0	8.5	8.5	8.5	6.5	6.0	6.5
23	---	---	---	8.0	7.5	8.0	8.5	8.0	8.0	7.0	6.5	6.5
24	---	---	---	8.0	7.5	8.0	8.0	8.0	8.0	7.0	6.5	7.0
25	---	---	---	8.0	7.5	8.0	8.5	8.0	8.0	7.0	6.5	7.0
26	---	---	---	8.0	7.5	8.0	8.0	8.0	8.0	7.0	6.5	7.0
27	---	---	---	8.0	7.5	8.0	8.0	7.5	8.0	7.0	6.5	7.0
28	---	---	---	8.0	8.0	8.0	8.0	8.0	8.0	7.0	7.0	7.0
29	---	---	---	8.0	8.0	8.0	8.0	7.5	8.0	7.0	6.0	6.5
30	---	---	---	8.0	8.0	8.0	8.0	7.5	8.0	6.0	5.5	6.0
31	---	---	---	8.5	8.0	8.0	8.0	7.5	7.5	---	---	---
MONTH	---	---	---	---	---	---	9.0	7.5	8.1	8.5	5.5	7.0

SOUTHEAST ALASKA

15106970 MIDDLE BASIN CREEK NEAR TENAKEE--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	5.5	5.0	5.0	4.5	4.5	4.5	4.0	3.5	4.0	3.0	3.0	3.0
2	5.5	5.0	5.0	5.0	4.5	5.0	4.0	4.0	4.0	3.5	3.0	3.0
3	5.0	4.5	5.0	5.0	5.0	5.0	4.0	4.0	4.0	3.5	3.5	3.5
4	5.0	4.5	5.0	5.0	4.0	4.5	4.0	3.5	4.0	3.5	3.0	3.5
5	6.0	5.0	5.5	4.5	4.0	4.5	4.5	3.5	4.0	3.5	3.0	3.0
6	6.5	6.0	6.0	4.5	4.5	4.5	4.5	4.0	4.0	3.5	3.0	3.5
7	6.5	6.0	6.5	4.5	4.5	4.5	4.0	3.5	4.0	4.0	3.5	3.5
8	6.0	5.5	6.0	4.5	4.5	4.5	3.5	3.0	3.5	4.0	3.5	3.5
9	6.0	6.0	6.0	4.5	4.0	4.0	3.0	2.5	2.5	3.5	3.0	3.0
10	6.0	5.5	5.5	4.0	4.0	4.0	3.0	2.5	3.0	3.0	2.5	3.0
11	6.0	6.0	6.0	4.5	4.0	4.5	3.0	2.5	3.0	3.0	2.5	2.5
12	6.5	6.0	6.0	5.0	4.5	4.5	3.0	2.0	2.5	2.5	2.5	2.5
13	6.0	5.5	6.0	4.5	4.0	4.5	2.0	1.5	2.0	2.5	2.5	2.5
14	5.5	5.5	5.5	4.5	4.5	4.5	1.5	1.0	1.0	3.0	2.5	2.5
15	5.5	5.5	5.5	4.5	4.0	4.5	1.5	1.0	1.0	3.0	2.5	3.0
16	5.5	5.5	5.5	4.5	4.0	4.5	1.5	.5	1.5	3.5	3.0	3.0
17	5.5	5.0	5.5	4.5	4.5	4.5	2.0	1.5	2.0	3.5	3.0	3.5
18	5.5	5.0	5.0	4.5	4.0	4.0	2.5	1.5	2.0	3.5	3.5	3.5
19	5.5	5.0	5.5	4.5	4.0	4.5	2.5	2.0	2.5	3.5	3.5	3.5
20	5.5	5.0	5.5	5.0	4.5	4.5	2.5	2.0	2.5	3.5	3.5	3.5
21	5.0	5.0	5.0	5.0	5.0	5.0	2.5	1.5	2.0	3.5	3.5	3.5
22	5.5	5.0	5.5	5.5	5.0	5.0	2.0	1.5	1.5	3.5	3.5	3.5
23	5.5	5.5	5.5	5.0	4.5	4.5	2.0	2.0	2.0	3.5	3.0	3.5
24	5.5	5.0	5.5	4.5	4.5	4.5	2.5	2.0	2.5	3.0	3.0	3.0
25	5.0	5.0	5.0	4.5	4.5	4.5	2.5	2.5	2.5	3.5	3.0	3.0
26	5.0	4.5	5.0	4.5	4.0	4.5	2.5	2.5	2.5	3.5	3.0	3.0
27	5.0	4.5	4.5	4.5	4.0	4.5	2.5	2.5	2.5	3.5	3.5	3.5
28	4.5	4.0	4.5	4.0	3.5	4.0	2.5	2.5	2.5	3.5	3.0	3.0
29	4.0	3.5	4.0	3.5	3.5	3.5	3.0	2.5	3.0	3.0	3.0	3.0
30	4.5	4.0	4.0	3.5	3.5	3.5	3.0	3.0	3.0	3.0	2.5	3.0
31	4.5	4.5	4.5	---	---	---	3.0	3.0	3.0	3.0	2.5	3.0
MONTH	6.5	3.5	5.3	5.5	3.5	4.4	4.5	.5	2.7	4.0	2.5	3.1
	FEBRUARY			MARCH			APRIL			MAY		
1	3.5	3.0	3.0	2.5	2.0	2.0	2.0	1.5	1.5	4.0	3.0	3.5
2	3.5	3.0	3.5	2.5	2.0	2.0	2.0	1.5	1.5	3.5	3.5	3.5
3	3.5	3.0	3.0	2.5	2.0	2.0	2.0	1.5	2.0	4.0	3.5	3.5
4	3.0	2.5	3.0	2.0	1.5	2.0	2.0	1.5	2.0	4.0	3.5	3.5
5	3.0	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0	3.5	3.0	3.5
6	2.5	2.5	2.5	2.5	2.0	2.0	2.5	1.5	2.0	3.5	3.0	3.5
7	2.5	2.5	2.5	2.5	2.0	2.5	2.5	1.5	2.0	4.0	3.5	3.5
8	2.5	2.0	2.5	2.5	2.0	2.5	2.0	1.5	2.0	4.0	3.5	3.5
9	2.5	1.5	2.0	2.5	2.5	2.5	2.5	2.0	2.5	4.0	3.5	3.5
10	2.0	1.0	1.5	2.5	2.5	2.5	2.5	1.5	2.0	4.0	3.5	3.5
11	1.5	1.0	1.5	3.0	2.5	2.5	2.5	2.0	2.5	4.0	3.5	4.0
12	2.0	1.5	2.0	3.0	2.5	2.5	2.5	2.0	2.5	4.5	4.0	4.0
13	2.0	1.5	2.0	3.0	2.5	2.5	2.5	2.0	2.5	4.5	4.0	4.0
14	2.0	1.5	1.5	3.0	2.5	3.0	3.0	2.5	2.5	4.5	4.0	4.5
15	1.5	1.0	1.0	3.0	3.0	3.0	3.0	2.0	2.5	5.0	4.0	4.5
16	1.5	1.0	1.0	3.0	2.5	3.0	3.0	2.0	2.5	4.5	4.0	4.5
17	1.5	.5	1.0	3.0	2.5	3.0	3.0	2.5	3.0	5.0	4.0	4.5
18	1.5	.5	1.0	2.5	1.5	2.5	3.5	2.5	3.0	4.5	4.0	4.5
19	1.5	.5	1.0	1.5	1.0	1.5	3.5	3.0	3.0	5.0	4.0	4.5
20	1.5	1.0	1.5	1.0	.5	1.0	3.5	2.5	3.0	4.5	4.0	4.5
21	2.0	1.5	1.5	1.0	.5	.5	3.5	2.5	3.0	5.0	4.5	4.5
22	2.0	1.5	1.5	1.0	.5	1.0	3.5	2.5	3.0	5.0	4.5	4.5
23	1.5	1.0	1.5	1.0	.5	1.0	3.5	3.0	3.0	5.0	4.5	4.5
24	1.5	1.0	1.5	1.5	1.0	1.5	3.5	3.0	3.5	4.5	4.0	4.5
25	2.0	1.0	1.5	2.0	1.5	1.5	4.0	3.0	3.5	5.0	4.0	4.5
26	2.0	1.5	2.0	2.0	1.5	1.5	3.5	3.0	3.5	5.0	4.0	4.5
27	2.0	1.5	1.5	2.0	1.5	1.5	4.0	3.5	3.5	5.0	4.5	5.0
28	2.0	2.0	2.0	2.0	1.5	1.5	3.5	3.0	3.5	5.5	4.5	5.0
29	---	---	---	2.0	1.5	2.0	4.0	3.5	3.5	5.5	5.0	5.0
30	---	---	---	2.0	1.5	1.5	4.0	3.5	3.5	5.0	5.0	5.0
31	---	---	---	2.0	1.5	2.0	---	---	---	5.5	5.0	5.5
MONTH	3.5	.5	1.9	3.0	.5	2.0	4.0	1.5	2.7	5.5	3.0	4.2

SOUTHEAST ALASKA

15106970 MIDDLE BASIN CREEK NEAR TENAKEE--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	5.5	5.0	5.5	7.5	6.5	7.0	8.0	7.5	8.0	8.5	8.0	8.5
2	5.5	5.0	5.0	7.5	7.0	7.0	8.5	7.5	8.0	8.5	8.0	8.5
3	5.5	5.0	5.5	7.5	7.0	7.0	8.0	8.0	8.0	8.5	8.0	8.0
4	5.5	5.0	5.5	7.0	7.0	7.0	8.5	8.0	8.0	8.0	8.0	8.0
5	6.0	5.0	5.5	7.0	7.0	7.0	8.5	8.0	8.0	8.5	8.0	8.5
6	6.0	5.5	5.5	7.0	7.0	7.0	8.5	7.5	8.0	8.5	8.0	8.0
7	6.0	5.5	5.5	7.0	7.0	7.0	8.5	8.0	8.0	8.5	8.0	8.0
8	6.5	5.5	6.0	7.0	6.5	7.0	8.5	8.0	8.0	8.0	8.0	8.0
9	6.5	5.5	6.0	7.0	6.5	7.0	8.5	7.5	8.0	8.0	7.5	7.5
10	6.0	5.5	5.5	7.0	6.5	7.0	8.5	7.5	8.0	8.0	7.0	7.5
11	5.5	5.5	5.5	7.0	6.5	7.0	8.5	8.0	8.0	7.5	7.0	7.5
12	6.0	5.5	5.5	7.0	6.5	7.0	8.5	8.0	8.0	8.5	7.5	8.0
13	6.0	5.5	5.5	7.0	7.0	7.0	9.0	8.0	8.5	8.5	8.0	8.5
14	6.0	5.5	6.0	7.0	7.0	7.0	9.0	8.0	8.5	8.0	7.0	7.5
15	6.0	5.5	6.0	7.5	7.0	7.0	9.0	8.5	8.5	7.0	7.0	7.0
16	6.5	5.5	6.0	7.5	7.0	7.0	9.0	8.0	8.5	7.5	7.0	7.5
17	6.5	6.0	6.0	7.5	7.0	7.5	8.5	8.5	8.5	7.5	7.0	7.5
18	6.5	6.0	6.5	7.5	7.0	7.5	8.5	8.5	8.5	7.0	7.0	7.0
19	6.5	6.5	6.5	8.0	7.0	7.5	8.5	8.5	8.5	7.0	7.0	7.0
20	7.0	6.5	6.5	8.5	7.5	8.0	9.0	8.5	8.5	7.0	7.0	7.0
21	6.5	6.0	6.5	8.5	7.5	8.0	8.5	8.5	8.5	7.0	7.0	7.0
22	6.5	6.0	6.0	8.5	8.0	8.0	8.5	8.0	8.5	7.0	7.0	7.0
23	6.5	6.0	6.0	8.0	7.5	7.5	8.5	8.0	8.5	7.0	6.5	7.0
24	6.5	6.0	6.5	8.0	7.5	8.0	8.5	8.0	8.5	7.0	7.0	7.0
25	6.5	6.0	6.5	8.0	7.5	8.0	8.5	8.0	8.5	7.0	6.5	7.0
26	7.0	6.0	6.5	8.0	7.5	8.0	8.5	8.5	8.5	7.0	6.5	6.5
27	7.5	6.5	7.0	8.0	7.5	8.0	9.0	8.5	8.5	7.0	6.5	6.5
28	7.0	7.0	7.0	8.0	7.5	8.0	8.5	8.5	8.5	7.0	6.5	6.5
29	7.0	6.5	7.0	8.0	7.5	8.0	8.5	8.5	8.5	7.0	6.5	6.5
30	7.5	6.5	7.0	8.0	7.5	8.0	8.5	8.5	8.5	7.0	6.5	7.0
31	---	---	---	8.0	7.5	8.0	8.5	8.0	8.5	---	---	---
MONTH	7.5	5.0	6.1	8.5	6.5	7.4	9.0	7.5	8.3	8.5	6.5	7.4

SOUTHEAST ALASKA

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, revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1998 to current year.

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 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	4.5	6.5	4.7	e10	13	3.2	5.9	26	6.4	3.9	e6.8
2	6.2	4.6	10	6.1	e9.5	8.4	3.1	5.5	22	6.3	3.5	16
3	6.9	14	8.4	35	e8.7	6.3	3.0	9.2	23	6.0	3.2	12
4	7.0	9.7	7.4	20	e8.0	5.1	3.6	15	22	5.9	3.2	e10
5	12	7.3	119	20	e7.6	4.5	3.5	12	18	6.6	3.3	e11
6	20	6.1	35	19	5.9	5.8	3.3	9.6	16	9.0	e3.4	e14
7	19	7.3	19	13	4.9	9.1	3.2	7.9	17	11	e3.2	e13
8	24	6.5	14	11	4.4	7.2	3.2	7.6	15	14	e3.3	e13
9	16	5.5	10	9.0	4.0	9.0	3.4	11	15	12	e2.9	e11
10	13	4.9	7.9	6.8	3.9	22	3.2	9.1	15	10	e2.8	e9.0
11	47	13	6.6	5.4	e3.8	34	3.2	7.8	13	8.7	e2.7	e6.6
12	38	24	5.7	4.7	e3.5	21	3.2	7.8	12	8.0	e2.6	e5.8
13	51	14	5.0	4.5	e3.4	13	3.2	8.6	13	12	e2.5	23
14	23	10	e4.0	4.5	e3.4	8.8	3.1	8.6	12	12	e2.5	e21
15	22	8.1	e4.3	4.5	e3.4	6.8	3.0	8.9	11	11	e2.9	e15
16	17	6.6	e4.0	4.6	e3.4	9.2	3.0	9.3	11	9.0	e2.8	36
17	13	14	3.9	6.2	e3.4	7.7	3.0	9.7	11	e5.9	e2.4	35
18	10	11	4.2	6.9	e3.4	6.6	3.1	9.3	10	e5.5	e2.5	43
19	9.9	8.2	4.0	5.9	e3.4	e5.8	3.4	8.6	11	e4.7	e2.5	20
20	11	7.7	3.9	5.2	e3.4	e5.0	3.8	8.4	14	4.4	e2.5	25
21	14	13	3.7	4.7	3.3	e4.2	4.4	8.9	13	4.2	e2.3	17
22	18	25	3.6	4.5	3.5	e3.8	5.1	15	10	9.9	e2.4	e14
23	22	42	3.5	6.2	e3.2	e3.6	5.6	17	9.8	19	2.2	e11
24	19	25	3.4	7.7	e3.1	e3.5	5.5	15	9.2	12	2.3	e9.0
25	e13	16	3.4	5.7	3.2	e3.2	5.0	11	8.3	14	2.3	e8.0
26	e9.7	12	3.4	5.1	6.4	e3.2	4.8	9.9	7.7	12	2.6	e7.0
27	7.1	9.3	3.4	9.4	52	3.3	7.5	11	8.0	9.2	20	e6.4
28	5.5	7.6	3.4	12	22	3.4	10	14	8.4	6.6	9.2	e5.5
29	4.6	6.5	3.4	7.9	---	3.5	8.5	18	7.8	5.3	6.8	e6.6
30	4.6	5.8	4.0	5.8	---	3.4	7.1	22	6.9	4.6	6.2	e11
31	4.7	---	4.8	e7.3	---	3.3	---	26	---	4.2	7.6	---
TOTAL	494.3	349.2	322.8	273.3	198.1	246.7	128.2	347.6	396.1	269.4	122.5	441.7
MEAN	15.9	11.6	10.4	8.82	7.08	7.96	4.27	11.2	13.2	8.69	3.95	14.7
MAX	51	42	119	35	52	34	10	26	26	19	20	43
MIN	4.6	4.5	3.4	4.5	3.1	3.2	3.0	5.5	6.9	4.2	2.2	5.5
AC-FT	980	693	640	542	393	489	254	689	786	534	243	876
CFSM	3.86	2.82	2.52	2.13	1.71	1.93	1.03	2.71	3.20	2.10	.96	3.56
IN.	4.45	3.15	2.91	2.46	1.78	2.22	1.15	3.13	3.57	2.43	1.10	3.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)#

	1999	2000	2001	1999	2000	2001	1999	2000	2001	1999	2000	2001
MEAN	18.3	12.1	20.7	8.91	4.05	7.04	10.8	14.0	14.0	10.6	8.54	16.8
MAX	20.6	19.6	43.2	12.4	7.07	7.96	19.2	18.1	14.9	15.9	13.4	22.5
(WY)	2000	2000	2000	1999	2001	2001	1999	1999	1999	2000	2000	2000
MIN	15.9	4.99	8.37	5.57	2.00	5.70	4.27	11.2	13.2	7.29	3.95	13.2
(WY)	2001	1999	1999	2000	1999	2000	2001	2001	2001	1999	2001	1999

See Period of Record
e Estimated

SOUTHEAST ALASKA

15109048 PETERSON CREEK BELOW NORTH FORK NEAR AUKE BAY--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001		#
ANNUAL TOTAL	4270.4		3589.9				
ANNUAL MEAN	11.7		9.84		12.7		
HIGHEST ANNUAL MEAN					15.5		2000
LOWEST ANNUAL MEAN					9.84		2001
HIGHEST DAILY MEAN	150	Sep 16	119	Dec 5	364	Dec 27	1999
LOWEST DAILY MEAN	1.8	Mar 12	2.2	Aug 23	a1.5	Mar 7	1999
ANNUAL SEVEN-DAY MINIMUM	2.0	Mar 8	2.4	Aug 19	1.6	Mar 3	1999
MAXIMUM PEAK FLOW			242	Dec 5	616	Dec 28	1999
MAXIMUM PEAK STAGE			9.51	Dec 5	10.80	Dec 28	1999
INSTANTANEOUS LOW FLOW			b1.9	Aug 17	c		
ANNUAL RUNOFF (AC-FT)	8470		7120		9180		
ANNUAL RUNOFF (CFSM)	2.83		2.38		3.07		
ANNUAL RUNOFF (INCHES)	38.46		32.34		41.68		
10 PERCENT EXCEEDS	21		19		22		
50 PERCENT EXCEEDS	8.1		7.4		7.8		
90 PERCENT EXCEEDS	3.1		3.2		3.0		

See Period of Record

a Mar. 7 and 9, 1999

b Aug. 17-18; lowest recorded but may have been lower due to burried orifice

c Not determined, see lowest daily mean

SOUTHEAST ALASKA

15109048 PETERSON CREEK BELOW NORTH FORK NEAR AUKE BAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2000 to current year.

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

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)		PH WATER WHOLE FIELD (STANDARD UNITS) (00400)			TEMPERATURE WATER (DEG C) (00010)		BAROMETRIC PRESSURE (MM OF HG) (00025)		OXYGEN, DIS-SOLVED (MG/L) (00300)		OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00301)	
		CONDUCTANCE (US/CM) (00095)	TURBIDITY (NTU) (00076)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)	TEMPERATURE (DEG C) (00010)
JUN														
12...	1334	3.00	44	7.3	6.0	763	11.5	92						
12...	1336	7.00	41	7.4	6.0	763	11.5	92						
12...	1339	10.0	44	7.4	6.0	763	11.5	92						
12...	1341	13.0	44	7.3	6.0	763	11.5	92						
12...	1343	15.0	43	7.4	6.0	763	11.4	91						
APR 09... 1340 9 9 6.00 6.25 3.2 70 -- 7.1 2.5 50 .6 762														
JUN 12... 1320 9 9 21.0 6.79 11 20 43 7.3 6.0 8 -- 763														
AUG 21... 1100 9 9 6.00 6.22 2.5 10 60 7.3 10.5 12 -- 744														
APR 09... 12.9 -- 21 6.35 1.23 2.2 18 22 18 1.8 1.9 <.2 <.01														
JUN 12... 11.5 92 20 6.46 .972 1.2 20 24 20 2.0 1.4 M <.01														
AUG 21... 9.6 88 26 8.00 1.34 1.8 27 31 25 2.6 1.2 .1 <.01														
APR 09... 6.0 50 <.006 E.037 <.041 .14 <.060 <.018 5.9 <1.00 <8.00 <10.0 <13.0														
JUN 12... 4.2 29 <.006 <.050 E.023 E.06 <.060 <.020 4.9 <1.00 <8.00 <10.0 <13.0														
AUG 21... 5.6 41 E.003 .080 .116 .23 <.060 <.020 6.4 <1.00 <8.00 <10.0 <13.0														

SOUTHEAST ALASKA

15109048 PETERSON CREEK BELOW NORTH FORK NEAR AUKE BAY--Continued

DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITH- IUM, DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENIUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
APR 09...	<4.7	310	<.08	3.9	13.9	<45.0	<53.0	<4.6	38.3	<8.0	<20
JUN 12...	E3.3	80	E.06	<4.0	6.2	<50.0	<50.0	E3.3	36.0	<8.0	E11
AUG 21...	<5.0	190	E.05	<4.0	18.6	<50.0	<50.0	<5.0	46.5	<8.0	<20

SOUTHEAST ALASKA

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 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51000	18100	10100	11100	7710	6800	4000	10700	33000	87300	80500	61400
2	43800	17100	9840	9740	6960	6250	3940	10800	35800	91100	82400	57400
3	39300	16900	9150	11800	6640	5890	3980	11200	41600	95900	89100	50900
4	35700	16100	9480	13700	6380	5600	4080	11600	44300	101000	90100	46000
5	36500	15000	11500	10800	5980	5390	4000	11400	45600	98600	81400	50000
6	54900	14200	13000	10700	5420	5490	4060	10900	46200	93600	77500	53500
7	57300	13800	11700	12300	e5300	6190	4080	11200	48900	86800	79000	56000
8	56200	13300	10600	12000	e5200	5770	4130	11700	50400	79900	80400	56200
9	49400	12500	9750	10200	e5100	5890	4090	12200	52500	76300	77800	45400
10	44700	12500	9670	8950	e5000	6460	4120	12300	59100	72400	75900	38800
11	43200	14100	9670	8120	4960	7840	4250	12700	65700	70500	75100	34400
12	46000	15400	8630	8070	5140	8960	4430	13300	69400	70100	72600	32300
13	48400	14500	8130	8530	e4400	7120	4490	14400	70700	68200	76200	58500
14	42900	14100	7600	8600	e4300	6500	4480	15400	70800	68200	82300	74200
15	40700	14300	7040	10100	e4200	6100	4550	16200	70900	72000	89900	63500
16	36000	13800	e6750	9680	e4200	5870	4800	16900	72200	75000	87800	57200
17	31400	13800	e6500	9120	e4200	5600	5070	17900	73900	78000	84300	56200
18	27400	13200	8060	10000	e4200	5270	5430	18000	77400	85000	81100	57300
19	25400	12800	8460	9790	e4100	4610	6140	18200	81800	89400	75500	52400
20	24000	12600	7470	8910	e4600	4360	6640	18500	87100	95400	71900	47700
21	23000	15300	7100	8290	4940	4410	6970	18400	95000	106000	74100	42900
22	22900	16900	e6500	7930	5120	4310	7280	18500	95300	115000	75800	41600
23	24300	16200	e6200	7920	5020	4050	7530	18600	91000	116000	72000	40100
24	23500	15000	e6000	7350	4870	4110	8180	18800	95000	110000	68600	38300
25	22300	14100	e6500	6990	4850	4340	8120	19300	93100	104000	66300	36800
26	21300	13300	e7200	6940	5260	4660	8380	19900	87000	100000	62700	34000
27	20300	12600	e7500	7740	9750	4540	9330	20700	85400	98900	60900	31000
28	19300	11900	e8000	7270	8350	4380	9720	22900	90400	97100	58800	29100
29	18000	10500	e9000	6920	---	4230	9920	26900	90400	94400	60500	27500
30	17400	10000	e12000	6460	---	4170	10200	29600	86100	91100	63600	26400
31	18200	---	e11000	6640	---	4200	---	30700	---	86700	65900	---
TOTAL	1064700	423900	270100	282660	152150	169360	176390	519800	2106000	2773900	2340000	1397000
MEAN	34350	14130	8713	9118	5434	5463	5880	16770	70200	89480	75480	46570
MAX	57300	18100	13000	13700	9750	8960	10200	30700	95300	116000	90100	74200
MIN	17400	10000	6000	6460	4100	4050	3940	10700	33000	68200	58800	26400
AC-FT	2112000	840800	535700	560700	301800	335900	349900	1031000	4177000	5502000	4641000	2771000
CFSM	3.17	1.31	.81	.84	.50	.50	.54	1.55	6.49	8.27	6.98	4.30
IN.	3.66	1.46	.93	.97	.52	.58	.61	1.79	7.24	9.54	8.05	4.80

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

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
MEAN	24210	9084	6731	5184	4321	4224	6615	25950	68190	86480	75860	50570
MAX	40300	14130	12470	9118	6625	6619	10870	40100	83970	98590	99370	76330
(WY)	1995	2001	2000	2001	1993	1992	1992	1993	1993	1993	1994	1995
MIN	12040	5828	3229	3045	2707	3033	5099	16770	53490	73510	59750	29040
(WY)	1997	1997	1997	1995	1995	1995	1993	2001	1996	1996	1996	1992

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1991 - 2001

ANNUAL TOTAL	11859500	11675960	
ANNUAL MEAN	32400	31990	30640
HIGHEST ANNUAL MEAN			35850
LOWEST ANNUAL MEAN			23920
HIGHEST DAILY MEAN	124000	Aug 6	116000
LOWEST DAILY MEAN	3100	Mar 14	3940
ANNUAL SEVEN-DAY MINIMUM	3240	Mar 11	4020
MAXIMUM PEAK FLOW			119000
MAXIMUM PEAK STAGE			85.00
INSTANTANEOUS LOW FLOW			3580
ANNUAL RUNOFF (AC-FT)	23520000	23160000	22200000
ANNUAL RUNOFF (CFSM)	2.99	2.96	2.83
ANNUAL RUNOFF (INCHES)	40.77	40.14	38.48
10 PERCENT EXCEEDS	82600	84600	83500
50 PERCENT EXCEEDS	15700	14400	13200
90 PERCENT EXCEEDS	4380	4740	3500

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

SOUTHEAST ALASKA

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)
Oct 6	1100	1300	69.03	Jan 15	0130	1110	68.50
Oct 12	1645	1890	70.11	Jan 18	0515	1030	68.32
Oct 15	0130	*2040	*70.37	Feb 27	1000	1380	69.10
Nov 22	1600	1170	68.64				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	641	687	383	494	674	669	162	228	195	165	172	178
2	488	595	367	468	550	515	154	280	192	161	164	164
3	389	819	333	666	474	411	e150	372	193	157	157	151
4	324	654	364	717	e425	343	205	397	190	164	151	142
5	556	540	607	589	e370	303	211	380	185	183	144	296
6	1120	461	596	624	336	335	200	374	183	267	137	348
7	1020	450	516	859	319	447	187	346	184	296	131	627
8	942	403	444	901	292	421	183	337	181	305	125	695
9	985	358	388	781	270	600	178	306	177	267	120	586
10	754	345	350	629	250	794	169	290	177	245	114	468
11	1070	650	337	504	236	858	190	264	177	228	110	385
12	1430	845	308	436	248	837	230	245	173	214	106	424
13	1400	648	282	483	349	693	237	227	169	204	103	772
14	1340	649	262	647	309	555	250	215	163	214	101	633
15	1670	678	247	948	277	483	241	207	162	198	99	519
16	1470	584	234	753	255	453	225	201	160	184	96	444
17	1230	640	228	691	237	386	210	197	162	173	94	409
18	919	543	310	880	222	331	203	191	162	165	94	369
19	714	471	293	777	210	285	200	181	161	158	94	326
20	583	431	263	662	200	251	196	174	162	153	94	293
21	510	722	243	581	192	227	190	210	167	158	92	266
22	658	952	226	551	184	210	182	220	170	175	92	296
23	857	819	214	505	176	e193	185	270	169	239	93	334
24	718	704	204	432	170	183	186	342	166	271	93	546
25	607	627	234	380	170	180	221	320	164	270	93	683
26	527	619	352	372	381	205	221	274	161	255	104	561
27	461	622	325	665	1170	209	262	245	158	236	104	485
28	404	528	309	615	866	197	279	225	159	217	111	427
29	361	449	335	515	---	183	254	212	164	201	175	367
30	409	393	493	439	---	174	231	206	168	189	197	321
31	744	---	566	655	---	171	---	200	---	179	198	---
TOTAL	25301	17886	10613	19219	9812	12102	6192	8136	5154	6491	3758	12515
MEAN	816	596	342	620	350	390	206	262	172	209	121	417
MAX	1670	952	607	948	1170	858	279	397	195	305	198	772
MIN	324	345	204	372	170	171	150	174	158	153	92	142
AC-FT	50180	35480	21050	38120	19460	24000	12280	16140	10220	12870	7450	24820
CFSM	22.7	16.6	9.51	17.2	9.73	10.8	5.73	7.29	4.77	5.82	3.37	11.6
IN.	26.14	18.48	10.97	19.86	10.14	12.51	6.40	8.41	5.33	6.71	3.88	12.93

e Estimated

SOUTHEAST ALASKA

15129500 SITUK RIVER NEAR YAKUTAT--Continued

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

MEAN	553	346	401	278	245	247	250	282	232	192	255	520
MAX	878	598	739	620	471	516	370	418	345	292	532	838
(WY)	2000	1993	2000	2001	1997	1992	1998	1991	1991	1991	1991	1991
MIN	283	173	142	131	81.2	54.2	143	160	127	77.7	105	339
(WY)	1998	1999	1991	1996	1999	1989	1989	1996	1993	1993	1994	1997

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1989 - 2001#	
ANNUAL TOTAL	125192		137179			
ANNUAL MEAN	342		376		317	
HIGHEST ANNUAL MEAN					382	
LOWEST ANNUAL MEAN					230	
HIGHEST DAILY MEAN	2150	Sep 28	1670	Oct 15	2850	Dec 27 1999
LOWEST DAILY MEAN	100	Mar 14	a92	Aug 21	47	Mar 5 1989
ANNUAL SEVEN-DAY MINIMUM	106	Mar 9	93	Aug 19	48	Mar 3 1989
MAXIMUM PEAK FLOW			2040	Oct 15	3840	Oct 18 1999
MAXIMUM PEAK STAGE			70.37	Oct 15	72.99	Oct 18 1999
INSTANTANEOUS LOW FLOW			b91	Aug 17	c47	Mar 5 1989
ANNUAL RUNOFF (AC-FT)	248300		272100		229800	
ANNUAL RUNOFF (CFSM)	9.50		10.4		8.81	
ANNUAL RUNOFF (INCHES)	129.37		141.75		119.70	
10 PERCENT EXCEEDS	649		708		603	
50 PERCENT EXCEEDS	234		280		237	
90 PERCENT EXCEEDS	150		160		118	

See Period of Record
a Aug. 21 and 22
b Aug. 17-22 and Aug. 24-26
c Mar. 5-7, 1989

SOUTHEAST ALASKA

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. April 25 to September 30 record considered fair, due to 4 hour recording interval.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 20.0°C, July 4, 1997; minimum, 0.0°C, on many days during winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 17.5°C, June 27; minimum, 0.0°C on many days during winter.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	8.0	8.0	4.5	4.0	4.5	3.5	3.5	3.5	3.0	2.5	2.5
2	8.5	7.5	8.0	5.0	4.0	4.5	3.5	3.0	3.5	3.0	2.5	3.0
3	8.0	7.0	7.5	5.0	4.5	5.0	3.5	3.5	3.5	3.5	3.0	3.0
4	8.0	6.5	7.0	4.5	4.0	4.0	3.5	3.5	3.5	3.0	2.5	3.0
5	8.5	7.5	8.0	4.5	4.0	4.0	4.0	3.5	4.0	3.0	2.5	2.5
6	9.0	8.5	8.5	4.5	3.5	4.0	4.0	3.0	3.5	3.0	2.5	3.0
7	8.5	8.0	8.5	4.5	4.0	4.5	3.5	3.0	3.5	3.0	3.0	3.0
8	8.0	7.5	7.5	4.5	3.5	4.0	3.0	2.5	2.5	3.0	2.0	2.5
9	8.0	7.0	7.5	5.0	4.0	4.5	3.0	2.5	2.5	2.5	2.0	2.0
10	7.5	7.0	7.5	5.0	4.0	4.5	3.5	3.0	3.0	2.0	1.5	2.0
11	8.0	7.0	7.5	5.0	4.5	4.5	3.5	3.0	3.5	2.0	1.5	1.5
12	7.5	7.5	7.5	5.0	4.5	4.5	3.0	2.0	2.5	2.0	1.5	1.5
13	7.5	7.0	7.5	4.5	4.5	4.5	2.0	1.5	2.0	2.5	1.5	2.0
14	7.0	6.5	7.0	5.0	4.5	4.5	2.0	1.0	1.5	2.5	1.5	2.0
15	7.0	6.5	7.0	4.5	3.5	4.0	2.5	2.0	2.5	2.5	1.5	2.0
16	7.0	6.5	7.0	4.0	3.5	4.0	2.5	2.0	2.5	2.5	2.0	2.5
17	7.0	6.0	6.5	4.5	4.0	4.0	3.0	2.0	2.5	3.0	2.5	3.0
18	6.5	6.0	6.0	4.0	3.5	4.0	3.0	2.5	2.5	3.0	3.0	3.0
19	6.5	5.5	6.0	4.5	3.5	4.0	2.5	2.0	2.5	3.0	2.5	3.0
20	6.5	5.5	6.0	4.5	4.0	4.5	3.0	2.0	2.0	2.5	2.0	2.5
21	6.0	5.5	5.5	5.0	4.5	4.5	3.0	2.0	2.5	2.5	2.5	2.5
22	6.0	5.5	6.0	4.5	4.0	4.5	2.0	1.5	1.5	3.0	2.5	2.5
23	6.0	5.5	6.0	4.0	3.5	4.0	3.0	1.5	2.5	3.0	2.5	3.0
24	6.5	6.0	6.0	4.0	4.0	4.0	3.0	2.5	3.0	2.5	2.0	2.0
25	6.0	5.5	6.0	4.0	4.0	4.0	3.5	2.5	3.0	3.0	2.5	2.5
26	6.5	5.5	6.0	4.0	4.0	4.0	2.5	2.0	2.5	3.0	3.0	3.0
27	5.5	4.5	5.0	4.0	3.5	3.5	2.5	2.0	2.5	3.0	2.5	2.5
28	4.5	4.0	4.5	3.5	3.0	3.5	3.0	2.0	2.5	2.5	2.0	2.5
29	5.0	3.5	4.0	3.0	2.5	3.0	3.0	2.5	3.0	2.5	2.0	2.5
30	5.0	4.5	4.5	3.5	2.5	3.0	3.0	2.5	2.5	2.5	2.0	2.0
31	5.0	4.5	4.5	---	---	---	3.0	2.5	2.5	2.5	2.0	2.0
MONTH	9.0	3.5	6.6	5.0	2.5	4.1	4.0	1.0	2.7	3.5	1.5	2.5

SOUTHEAST ALASKA

15129500 SITUK RIVER NEAR YAKUTAT--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.5	2.0	2.5	1.5	1.0	1.0	3.5	.0	1.5	5.5	4.0	---
2	2.5	2.0	2.0	2.0	1.0	1.5	4.5	1.5	2.5	4.0	3.0	---
3	2.5	1.5	2.0	2.5	1.0	1.5	3.0	.0	1.0	4.5	2.5	---
4	2.0	1.5	2.0	2.5	1.0	1.5	2.5	.0	1.0	4.0	2.5	---
5	---	.5	---	1.5	.5	1.0	4.0	1.0	2.0	3.5	2.5	---
6	2.0	.5	1.0	2.0	.5	1.5	4.0	.5	2.0	6.5	3.0	---
7	2.0	.5	1.5	2.0	1.0	1.5	4.5	1.5	3.0	4.5	4.0	---
8	1.5	.5	1.0	2.5	1.0	1.5	2.5	.5	1.5	7.5	3.0	---
9	1.5	.5	1.0	1.5	.0	.5	5.0	1.0	2.5	5.5	4.5	---
10	.5	.0	.0	1.0	.0	.5	4.5	1.0	3.0	8.0	3.0	---
11	1.5	.0	1.0	1.5	1.0	1.5	3.5	2.0	2.5	6.5	4.5	---
12	2.0	1.5	1.5	1.5	1.0	1.0	3.5	1.5	2.5	9.5	4.0	---
13	1.5	.5	1.0	2.0	1.0	1.5	4.0	1.0	2.5	8.0	5.0	---
14	1.0	.0	.5	2.5	1.0	1.5	4.0	2.0	3.0	9.0	5.0	---
15	1.0	.0	.5	2.5	1.5	2.0	5.5	2.0	3.5	7.5	6.0	---
16	1.0	.0	.5	2.5	1.0	1.5	5.5	1.5	3.0	9.0	5.0	---
17	1.0	.0	.5	3.0	1.0	1.5	6.0	1.5	3.5	7.5	5.5	---
18	1.0	.0	.5	2.0	.0	1.0	5.0	2.5	4.0	9.0	5.5	---
19	2.0	.0	1.0	1.5	.0	.5	6.5	2.5	4.0	9.0	5.0	---
20	2.0	.5	1.5	1.5	.0	.0	6.5	2.0	4.0	8.0	5.5	---
21	2.5	1.5	2.0	2.0	.0	.5	6.5	2.0	4.0	7.0	6.0	---
22	1.5	.5	1.0	2.0	.0	1.0	5.5	2.0	4.0	7.5	5.5	---
23	2.0	.0	1.0	2.5	.0	.5	---	3.0	---	6.5	5.5	---
24	1.5	.5	1.0	3.0	1.0	2.0	---	---	---	6.5	5.5	---
25	1.0	.0	.5	4.0	2.0	3.0	4.5	3.0	---	8.5	5.5	---
26	.5	.0	.0	3.0	.0	2.0	6.0	2.5	---	11.0	5.5	---
27	.5	.0	.5	3.0	.0	1.0	5.0	3.5	---	8.5	6.5	---
28	1.5	.5	1.0	3.0	1.0	1.5	5.0	3.0	---	11.0	7.0	---
29	---	---	---	3.5	1.0	2.0	5.5	2.5	---	9.5	8.0	---
30	---	---	---	2.5	1.5	2.0	5.5	3.5	---	11.0	7.0	---
31	---	---	---	2.5	1.0	1.5	---	---	---	11.5	8.0	---
MONTH	---	.0	---	4.0	.0	1.3	---	---	---	11.5	2.5	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.5	8.5	---	14.0	12.0	---	15.0	12.0	---	13.5	11.0	---
2	9.5	8.5	---	15.5	12.0	---	16.5	11.5	---	12.5	11.0	---
3	9.0	8.0	---	14.5	12.5	---	15.0	13.5	---	12.5	9.5	---
4	11.0	7.5	---	13.5	12.5	---	14.0	12.5	---	11.5	9.5	---
5	10.0	8.0	---	12.5	11.5	---	14.5	12.5	---	11.5	10.0	---
6	11.5	8.0	---	11.5	11.0	---	15.5	11.5	---	12.0	10.5	---
7	11.5	9.0	---	12.0	11.0	---	14.0	12.0	---	11.0	10.0	---
8	14.0	8.0	---	13.0	10.5	---	14.0	12.5	---	12.0	10.5	---
9	15.0	9.5	---	13.0	10.5	---	15.0	11.5	---	12.0	10.0	---
10	12.5	10.0	---	14.0	11.0	---	14.0	11.0	---	12.5	10.0	---
11	11.0	10.0	---	12.5	11.5	---	14.5	12.0	---	11.5	10.0	---
12	11.0	10.0	---	12.5	11.0	---	15.5	11.0	---	11.0	9.5	---
13	12.0	9.5	---	12.5	11.0	---	16.0	11.0	---	11.0	9.5	---
14	13.0	10.0	---	13.5	11.0	---	14.5	12.5	---	11.5	10.5	---
15	12.5	10.0	---	13.5	11.5	---	14.5	12.0	---	12.0	10.5	---
16	14.5	10.5	---	13.0	11.5	---	15.5	12.0	---	11.5	11.0	---
17	13.0	11.0	---	13.5	11.5	---	14.0	11.5	---	11.5	11.0	---
18	13.5	10.5	---	14.0	11.5	---	14.0	12.0	---	11.5	10.5	---
19	15.0	10.5	---	16.0	11.5	---	13.5	12.0	---	11.5	10.0	---
20	16.0	12.0	---	17.0	12.5	---	14.0	11.5	---	11.0	10.0	---
21	14.5	12.0	---	15.0	13.0	---	13.5	11.5	---	10.5	9.0	---
22	13.5	12.0	---	13.0	12.0	---	14.5	10.5	---	10.0	9.5	---
23	14.5	12.0	---	12.5	12.0	---	13.5	12.0	---	9.5	9.0	---
24	16.5	11.0	---	13.5	12.0	---	14.0	11.5	---	9.0	8.5	---
25	14.5	12.5	---	13.0	12.0	---	13.0	10.5	---	9.5	8.5	---
26	16.0	12.0	---	13.5	12.5	---	12.5	11.0	---	10.0	8.5	---
27	17.5	11.5	---	15.0	12.5	---	12.5	10.5	---	9.5	9.0	---
28	15.0	12.0	---	14.0	12.5	---	12.0	11.0	---	9.5	8.5	---
29	13.0	12.0	---	14.0	12.5	---	12.5	11.0	---	9.0	7.5	---
30	14.5	12.0	---	13.5	12.5	---	12.5	11.5	---	9.5	8.0	---
31	---	---	---	13.5	12.0	---	12.5	11.0	---	---	---	---
MONTH	17.5	7.5	---	17.0	10.5	---	16.5	10.5	---	13.5	7.5	---

SOUTHEAST ALASKA

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 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	38	34	e37	e45	44	15	16	7.0	1.6	3.4	3.9
2	33	37	32	e36	e40	39	14	18	6.3	1.5	3.3	3.4
3	29	50	30	e44	38	36	e16	21	5.8	1.4	3.2	2.8
4	26	43	34	e47	37	33	17	21	5.4	1.5	2.9	2.5
5	34	37	43	e42	35	32	16	20	5.0	2.3	2.7	8.5
6	51	34	40	e43	33	34	15	20	4.4	5.7	2.6	8.1
7	51	33	37	e53	32	40	13	21	4.0	6.3	2.4	12
8	50	31	34	e55	30	38	13	22	3.8	8.4	2.3	9.8
9	60	28	32	e52	29	45	13	20	3.6	6.6	2.2	7.8
10	55	28	31	e44	27	57	12	18	3.5	5.5	2.1	6.6
11	70	40	31	e38	26	57	14	17	3.2	4.8	2.0	5.8
12	70	52	29	e34	27	54	17	16	3.2	4.2	1.9	7.5
13	73	45	28	e36	32	49	17	14	3.0	4.2	1.8	13
14	74	45	26	e44	29	43	19	13	2.7	4.3	1.7	10
15	79	44	25	e56	27	41	19	12	2.8	3.9	1.7	8.1
16	78	41	25	e50	26	40	18	11	2.5	3.7	1.6	8.3
17	77	43	24	e46	24	37	16	11	2.5	3.6	1.5	10
18	66	38	28	e54	23	33	16	10	2.4	3.4	1.5	10
19	58	34	27	e50	22	30	16	9.0	2.4	3.3	1.5	9.4
20	51	33	25	e45	22	27	15	8.3	2.3	3.0	1.6	8.2
21	47	40	23	e41	20	25	15	10	2.2	3.3	1.3	7.6
22	54	51	23	e40	19	23	14	9.7	2.2	3.7	1.2	8.0
23	58	49	22	e38	18	22	13	13	2.1	7.3	1.2	10
24	52	45	21	e34	17	21	13	15	2.0	7.4	1.2	36
25	47	45	23	e31	17	20	16	14	1.9	6.3	1.2	47
26	44	46	25	e30	33	20	18	12	1.9	5.6	1.5	38
27	40	47	24	e44	60	20	19	11	1.8	5.1	1.4	31
28	37	43	23	e43	50	18	19	10	1.7	4.2	1.7	27
29	34	39	25	e38	---	17	19	9.1	1.6	4.0	4.8	23
30	35	36	e31	e35	---	16	17	8.2	1.7	3.7	5.0	20
31	40	---	e38	e44	---	16	---	7.7	---	3.6	4.9	---
TOTAL	1611	1215	893	1324	838	1027	474	438.0	94.9	133.4	69.3	403.3
MEAN	52.0	40.5	28.8	42.7	29.9	33.1	15.8	14.1	3.16	4.30	2.24	13.4
MAX	79	52	43	56	60	57	19	22	7.0	8.4	5.0	47
MIN	26	28	21	30	17	16	12	7.7	1.6	1.4	1.2	2.5
AC-FT	3200	2410	1770	2630	1660	2040	940	869	188	265	137	800
CFSM	20.8	16.2	11.5	17.1	12.0	13.3	6.32	5.65	1.27	1.72	.89	5.38
IN.	23.97	18.08	13.29	19.70	12.47	15.28	7.05	6.52	1.41	1.98	1.03	6.00

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

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001		
MEAN	32.9	25.8	24.3	19.0	16.2	17.0	16.5	14.5	7.11	4.55	8.35	19.1
MAX	60.7	43.8	49.1	42.7	35.9	38.3	28.3	34.4	19.7	9.67	19.4	30.8
(WY)	2000	2000	2000	2001	1997	1992	1998	1999	1999	1998	1998	1998
MIN	20.5	12.6	8.96	5.13	3.31	4.13	7.85	6.17	2.01	.66	1.32	5.90
(WY)	1998	1996	1996	1993	1999	1999	1993	1996	1993	1993	1993	1993

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1992 - 2001

ANNUAL TOTAL	7540.3	8520.9	
ANNUAL MEAN	20.6	23.3	17.1
HIGHEST ANNUAL MEAN			23.3
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	79	Oct 15	e118
LOWEST DAILY MEAN	1.9	Jul 10	.27
ANNUAL SEVEN-DAY MINIMUM	2.1	Jul 5	.39
MAXIMUM PEAK FLOW		84	Oct 15
MAXIMUM PEAK STAGE		11.93	Oct 15
INSTANTANEOUS LOW FLOW		c1.0	Aug 22
ANNUAL RUNOFF (AC-FT)	14960	16900	12400
ANNUAL RUNOFF (CFSM)	8.24	9.34	6.85
ANNUAL RUNOFF (INCHES)	112.20	126.79	93.06
10 PERCENT EXCEEDS	44	47	37
50 PERCENT EXCEEDS	15	20	13
90 PERCENT EXCEEDS	3.2	2.3	3.4

- a Aug. 22 to 25
- b May have been exceeded during period of gage malfunction from Dec. 25 to 28, 1999
- c Aug. 22 to 26
- d Minimum recorded, Jul. 28, Aug. 2, Aug. 7 to Aug. 10, 1993, but may have been less during period water was below intake Jul. 28, Aug. 2, and Aug. 8 to Aug. 10, 1993
- e Estimated