

SOUTHEAST ALASKA

15085100 OLD TOM CREEK NEAR KASAAN

LOCATION.--Lat 55°23'44", long 132°24'25", in NW¹/₄ SW¹/₄ sec. 6, T. 75 S., R. 86 E. (Craig B-2 quad) Hydrologic Unit 19010103, on Prince of Wales Island, in Tongass National Forest, on left bank 1,000 ft upstream from mouth at Skowl Arm of Kasaan Bay, 0.4 mi downstream from unnamed tributary, and 10 mi south of Kasaan.

DRAINAGE AREA.--5.90 mi².

WATER-DISCHARGE RECORDS

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and maximum (*):

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

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

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

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

	MEAN	70.0	65.9	60.6	50.1	45.2	39.0	47.8	42.4	25.9	13.0	15.2	32.6
MAX	163	166	142	128	117	86.3	122	99.1	56.1	31.0	50.9	93.6	
(WY)	1978	2000	2004	1992	1998	1984	1980	1999	1950	1991	2001	2001	
MIN	23.0	17.1	8.29	3.00	5.00	10.1	19.1	11.4	5.45	2.66	1.81	2.69	
(WY)	2003	1966	1984	1950	1950	1956	1967	2004	1958	1958	1993	1965	

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

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15085100 OLD TOM CREEK NEAR KASAAN—Continued

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

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

a August 15, 16, and 18

b December 15 and 23

c From rating curve extended above 330 ft³/s