

# SOUTHEAST ALASKA

## 15085100 OLD TOM CREEK NEAR KASAAN

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

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

### WATER-DISCHARGE RECORDS

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

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

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

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

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

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

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

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

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

	70.0	66.1	60.5	50.0	45.1	39.4	48.0	42.0	25.5	13.1	15.3	32.6
MEAN	70.0	66.1	60.5	50.0	45.1	39.4	48.0	42.0	25.5	13.1	15.3	32.6
MAX	163	166	142	128	117	86.3	122	99.1	56.1	31.0	50.9	93.6
(WY)	1978	2000	2004	1992	1998	1984	1980	1999	1950	1991	2001	2001
MIN	23.0	17.1	8.29	3.00	5.00	10.1	19.1	11.4	5.12	2.66	1.81	2.69
(WY)	2003	1966	1984	1950	1950	1956	1967	2004	2005	1958	1993	1965

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

# SOUTHEAST ALASKA

## 15085100 OLD TOM CREEK NEAR KASAAN—Continued

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

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

a Aug. 15, 16, and 18

b Jan. 12 and 13

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