

# SOUTHEAST ALASKA

## 15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE

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

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

### WATER-DISCHARGE RECORDS

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

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

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

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

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)
Oct. 25	0345	649	3.92	Feb. 09	0145	868	4.33
Nov. 12	0515	*995	*4.54	Sept. 21	0130	569	3.75
Dec. 22	0415	669	3.96	Sept. 23	1545	741	4.10

### 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	38	39	112	19	19	23	32	145	44	8.9	7.3	5.9
2	34	33	201	e16	17	21	168	139	45	9.0	7.4	21
3	31	29	60	e14	16	22	207	145	41	9.6	6.5	68
4	32	29	42	e13	16	22	114	133	38	8.4	6.1	61
5	34	26	35	e12	55	24	76	99	49	9.7	5.7	18
6	65	25	30	e11	84	24	78	89	43	33	5.9	27
7	69	24	27	e11	72	122	115	82	46	15	5.7	29
8	53	25	24	e12	246	264	89	84	38	11	5.3	13
9	35	136	22	e12	338	125	91	76	30	9.1	5.1	9.4
10	33	76	20	e13	256	205	103	78	26	8.2	4.9	7.9
11	29	159	20	e17	141	160	90	79	23	7.9	4.7	7.4
12	24	529	26	24	133	94	90	85	25	7.4	4.7	16
13	54	150	42	117	87	60	75	95	27	7.0	4.5	70
14	63	117	23	254	88	53	72	96	26	6.6	4.3	30
15	37	156	27	82	54	75	57	70	21	6.4	4.3	24
16	29	89	86	42	42	69	46	72	19	6.1	4.1	23
17	28	63	150	103	36	49	46	74	19	5.9	4.1	18
18	46	49	110	133	43	37	45	84	18	5.8	4.2	13
19	48	38	199	66	83	30	39	89	17	5.6	5.3	12
20	41	30	99	137	157	27	40	81	15	6.1	5.4	164
21	32	28	182	159	186	25	44	84	14	7.9	4.7	317
22	50	34	392	179	135	25	87	69	13	7.0	4.3	147
23	72	31	161	97	81	23	91	60	13	6.0	4.1	352
24	74	45	94	63	71	22	120	75	12	6.1	4.0	182
25	294	40	67	e40	49	40	187	84	11	5.9	4.0	112
26	205	29	48	e27	38	46	165	70	11	5.8	4.5	99
27	173	24	34	e19	33	44	98	60	11	6.1	10	278
28	151	21	29	e13	29	114	80	50	10	12	7.8	98
29	75	21	26	e9.0	25	76	77	43	9.7	12	9.7	99
30	58	23	24	e10	---	46	109	47	9.2	11	12	57
31	47	---	23	e13	---	33	---	47	---	8.3	6.9	---
TOTAL	2054	2118	2435	1737.0	2630	2000	2731	2584	723.9	274.8	177.5	2378.6
MEAN	66.3	70.6	78.5	56.0	90.7	64.5	91.0	83.4	24.1	8.86	5.73	79.3
MAX	294	529	392	254	338	264	207	145	49	33	12	352
MIN	24	21	20	9.0	16	21	32	43	9.2	5.6	4.0	5.9
AC-FT	4070	4200	4830	3450	5220	3970	5420	5130	1440	545	352	4720
CFSM	6.50	6.92	7.70	5.49	8.89	6.33	8.92	8.17	2.37	0.87	0.56	7.77
IN.	7.49	7.72	8.88	6.33	9.59	7.29	9.96	9.42	2.64	1.00	0.65	8.67

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, 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	2002	2003	2004
MEAN	116	76.8	64.0	50.4	49.4	44.3	66.6	99.2	64.1	29.6	32.3	75.9																									
MAX	234	152	147	147	118	129	118	182	151	60.2	79.0	141																									
(WY)	1975	1975	2000	1985	1985	1994	1994	1972	1972	1970	1983	1981																									
MIN	50.6	17.7	8.05	6.15	5.95	9.21	22.7	38.3	19.8	6.41	5.73	17.5																									
(WY)	1970	1974	1978	1969	1969	1974	2002	2003	1998	1989	2004	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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004#	
ANNUAL TOTAL	17937.5		21843.8			
ANNUAL MEAN	49.1		59.7		63.9	
HIGHEST ANNUAL MEAN					80.8	
LOWEST ANNUAL MEAN					44.1	
HIGHEST DAILY MEAN	529		529		1010	
LOWEST DAILY MEAN	6.7	Nov 12	a4.0	Nov 12	b3.2	Oct 19 1998
ANNUAL SEVEN-DAY MINIMUM	7.2	Aug 11	4.3	Aug 24	4.2	Jul 28 1989
MAXIMUM PEAK FLOW			4.54		4.2	
MAXIMUM PEAK STAGE			995		c1970	
INSTANTANEOUS LOW FLOW			d3.8		5.83	
ANNUAL RUNOFF (AC-FT)	35580		43330		3.2	
ANNUAL RUNOFF (CFSM)	4.82		5.85		6.27	
ANNUAL RUNOFF (INCHES)	65.42		79.67		85.17	
10 PERCENT EXCEEDS	99		145		138	
50 PERCENT EXCEEDS	32		37		42	
90 PERCENT EXCEEDS	12		6.6		12	

- # See Period of Record; partial years used in monthly summary statistics
- a Aug. 24 to Aug. 25, 2004
- b Jul. 28 to Jul. 29, 1989
- c From rating curve extended above 330 ft<sup>3</sup>/s on basis of area-velocity study at gage height 4.8 ft and shape of previous rating
- d Aug. 13 and Aug. 23 to Aug. 26, 2004