

# SOUTHEAST ALASKA

## 15106970 MIDDLE BASIN CREEK NEAR TENAKEE

LOCATION.--Lat 57°41'33", long 135°12'06", in NE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to July 1987 (unpublished fragmentary records provided by the U.S. Forest Service). July 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 190 ft above sea level, from topographic map.

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

#### 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	0.46	2.8	1.1	1.2	0.98	0.88	e1.0	e0.67	e0.36	0.18	0.19	0.19
2	0.42	2.2	3.2	1.0	0.82	e0.90	e0.62	e0.65	e0.35	0.17	0.19	0.17
3	0.37	6.7	4.5	0.97	0.71	e1.2	e0.57	e0.66	e0.35	0.25	0.20	0.16
4	0.43	5.3	4.0	0.93	0.61	e1.2	e0.60	e0.68	e0.35	0.28	0.20	0.13
5	0.64	3.5	3.0	0.90	0.47	e1.4	e0.75	e0.71	e0.39	0.23	0.21	0.13
6	0.53	2.8	2.3	0.68	0.41	e1.0	e0.96	e0.70	e0.26	0.21	0.20	0.28
7	0.54	2.2	2.0	0.57	0.48	e0.90	e0.90	e0.67	0.24	0.20	0.19	0.37
8	0.73	1.9	1.7	0.57	0.81	e1.3	e0.69	e0.70	0.24	0.22	0.19	0.29
9	0.64	1.4	1.2	0.53	0.82	e1.9	e0.69	e0.73	0.23	0.22	0.19	0.23
10	0.60	1.0	1.1	0.59	0.98	e2.3	e0.79	e0.77	0.22	0.20	0.19	0.26
11	0.52	0.89	1.6	0.43	0.85	e3.0	e0.77	e0.84	0.20	0.18	0.19	0.27
12	1.0	0.84	1.6	0.34	0.70	e2.0	e0.71	e0.83	0.20	0.18	0.20	0.27
13	0.88	0.90	1.2	0.38	0.56	e1.7	e0.70	e0.85	0.20	0.16	0.20	0.26
14	0.73	1.6	1.2	0.39	0.48	e1.3	e0.64	e1.3	0.24	0.18	0.20	0.24
15	0.69	1.4	1.2	0.43	0.47	e1.1	e0.59	e1.1	0.20	0.20	0.18	0.23
16	0.60	1.3	3.9	0.47	0.52	e0.90	e0.55	e0.76	0.20	0.16	0.18	0.22
17	0.53	1.3	4.1	0.52	0.57	e0.80	e0.55	e0.64	0.22	0.21	0.16	0.25
18	0.47	1.1	5.0	0.47	0.50	e0.70	e0.58	e0.57	0.22	0.23	0.21	0.65
19	0.42	1.3	5.4	0.46	0.46	e0.60	e0.99	e0.51	0.20	0.20	0.19	0.89
20	0.40	2.8	3.6	0.45	0.42	e0.53	e1.8	e0.50	0.17	0.18	0.17	0.75
21	0.40	2.9	2.5	0.53	0.40	e0.46	e1.5	e0.52	0.16	0.18	0.15	0.66
22	0.40	2.7	2.4	0.71	0.44	e0.41	e1.3	e0.51	0.16	0.19	0.20	0.57
23	0.34	2.3	4.8	0.60	0.52	e0.41	e0.98	e0.60	0.17	0.19	0.14	0.54
24	0.40	2.2	8.3	0.56	0.51	e0.38	e1.0	e0.78	0.18	0.17	0.13	0.59
25	0.35	2.0	5.8	0.53	0.46	e0.36	e1.2	e0.61	0.18	0.17	0.21	0.52
26	0.31	1.8	3.7	0.64	0.57	e0.38	e1.2	e0.52	0.19	0.22	0.19	0.46
27	0.42	1.4	3.0	0.66	0.61	e0.50	e1.2	e0.50	0.19	0.26	0.18	0.59
28	0.61	1.3	3.1	0.59	0.74	e0.59	e1.1	e0.46	0.19	0.22	0.14	1.3
29	2.0	1.2	2.5	0.61	---	e0.53	e0.95	e0.41	0.20	0.20	0.14	3.3
30	2.0	1.1	2.0	0.94	---	e0.53	e0.78	e0.40	0.19	0.20	0.18	2.8
31	1.7	---	1.6	1.1	---	e0.79	---	e0.38	---	0.21	0.19	---
TOTAL	20.53	62.13	92.6	19.75	16.87	30.95	26.66	20.53	6.85	6.25	5.68	17.57
MEAN	0.66	2.07	2.99	0.64	0.60	1.00	0.89	0.66	0.23	0.20	0.18	0.59
MAX	2.0	6.7	8.3	1.2	0.98	3.0	1.8	1.3	0.39	0.28	0.21	3.3
MIN	0.31	0.84	1.1	0.34	0.40	0.36	0.55	0.38	0.16	0.16	0.13	0.13
MED	0.53	1.7	2.5	0.57	0.54	0.88	0.79	0.66	0.20	0.20	0.19	0.28
AC-FT	41	123	184	39	33	61	53	41	14	12	11	35
CFSM	5.52	17.3	24.9	5.31	5.02	8.32	7.41	5.52	1.90	1.68	1.53	4.88
IN.	6.36	19.26	28.71	6.12	5.23	9.59	8.26	6.36	2.12	1.94	1.76	5.45

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)#

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
MEAN	1.36	1.38	1.66	0.67	0.57	0.54	0.46	0.70	0.62	0.31	0.24	0.77
MAX	2.98	2.65	3.75	0.97	0.93	1.00	0.89	1.10	1.31	0.65	0.40	1.34
(WY)	2000	2000	2000	2003	2004	2005	2005	2004	2002	1999	2002	2000
MIN	0.66	0.83	0.45	0.47	0.30	0.26	0.17	0.42	0.23	0.18	0.10	0.26
(WY)	2005	2001	2002	2000	2000	2002	2002	2003	2005	2004	2004	2004

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

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005#	
ANNUAL TOTAL	328.49		326.37			
ANNUAL MEAN	0.90		0.89		0.77	
HIGHEST ANNUAL MEAN					1.20 2000	
LOWEST ANNUAL MEAN					0.61 2003	
HIGHEST DAILY MEAN	8.3 Dec 24		8.3 Dec 24		31 Dec 27 1999	
LOWEST DAILY MEAN	0.04 Sep 9		a0.13 Aug 24		b0.04 Sep 9 2004	
ANNUAL SEVEN-DAY MINIMUM	0.06 Sep 5		0.16 Aug 23		0.06 Sep 5 2004	
MAXIMUM PEAK FLOW			15 Nov 3		c66 Dec 27 1999	
MAXIMUM PEAK STAGE			4.63 Nov 3		5.16 Dec 27 1999	
INSTANTANEOUS LOW FLOW			d0.11 Aug 24		b0.03 Sep 9 2004	
ANNUAL RUNOFF (AC-FT)	652		647		554	
ANNUAL RUNOFF (CFSM)	7.48		7.45		6.38	
ANNUAL RUNOFF (INCHES)	101.83		101.17		86.63	
10 PERCENT EXCEEDS	2.0		2.0		1.3	
50 PERCENT EXCEEDS	0.62		0.57		0.51	
90 PERCENT EXCEEDS	0.11		0.19		0.19	

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

a Aug. 24, Sept. 4-5

b Sept. 9, 10, 18 and 19, 2004

c From rating curve extended above 3.0 ft<sup>3</sup>/s

d Aug. 24, 28, 29, Sept. 4-5