

# SOUTH-CENTRAL ALASKA

## 15271000 SIXMILE CREEK NEAR HOPE

LOCATION.--Lat 60°49'15", long 149°25'31", in SW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 34, T. 8 N., R. 1 W. (Seward D-7 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, Chugach National Forest, on left bank, 6.0 mi upstream from mouth at Turnagain Arm, and 10.6 mi southeast of Hope.

DRAINAGE AREA.--234 mi<sup>2</sup>

PERIOD OF RECORD.--June 1979 to September 1990, August 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level, from topographic map. Prior to November 26, 1979, recording gage at site 0.8 mi downstream at different datum.

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

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

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)
May 14	0830	*4590	*11.85

### 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	1080	316	286	e180	e150	e130	152	e1450	2060	1960	931	547
2	1150	268	284	e180	e150	e130	151	1390	1910	1660	1030	505
3	2020	317	264	e190	e150	e130	150	1340	1820	1540	1190	504
4	1610	317	242	e200	e150	e130	149	1330	1850	1450	1080	583
5	1390	270	e230	e190	e150	e130	154	1280	2060	1420	973	631
6	1080	223	e220	e180	e150	e130	205	1180	2080	1460	919	830
7	900	364	e220	e180	e140	e130	202	1200	2230	1460	898	797
8	783	324	e230	e180	e140	e140	189	1290	2220	1400	891	694
9	704	298	e240	e180	e140	e150	187	1470	2570	1370	892	782
10	645	309	264	e170	e140	e200	188	1690	2960	1360	894	1130
11	583	314	259	e170	e140	233	192	1750	2650	1340	891	924
12	638	313	242	e170	e140	207	199	2300	2410	1300	884	974
13	635	311	240	e170	e140	213	205	3010	2260	1280	827	873
14	703	297	226	e170	e170	206	215	3940	2220	1220	787	802
15	639	285	231	e170	e160	196	225	2940	2350	1130	755	764
16	600	284	235	e170	e140	187	236	2350	2570	1130	718	839
17	561	278	234	e170	e140	181	242	2050	2720	1040	721	1090
18	519	276	299	e160	e140	177	249	2030	2940	974	736	988
19	520	282	311	e160	e130	175	250	2040	2620	1090	690	854
20	484	282	270	e160	e130	172	270	2150	2100	1030	664	786
21	464	273	257	e160	e130	168	317	2290	1920	962	694	722
22	432	269	264	e160	e130	168	406	2340	1880	888	664	735
23	427	271	270	e180	e130	163	478	2290	1660	856	968	935
24	412	275	232	e160	e130	161	614	2240	1540	869	819	1100
25	385	268	e200	e150	e130	159	751	2190	1490	929	681	908
26	386	261	e200	e150	e130	158	962	2330	1500	1020	631	829
27	387	261	e190	e150	e130	158	1150	2820	1600	1050	592	1160
28	383	318	e190	e150	e130	156	1350	2870	1660	981	569	1250
29	375	289	e190	e150	---	154	e1450	2670	1660	877	604	1070
30	351	279	e180	e150	---	154	e1550	2340	1700	822	556	914
31	313	---	e180	e150	---	156	---	2140	---	919	544	---
TOTAL	21559	8692	7380	5210	3930	5102	13038	64700	63210	36787	24693	25520
MEAN	695	290	238	168	140	165	435	2087	2107	1187	797	851
MAX	2020	364	311	200	170	233	1550	3940	2960	1960	1190	1250
MIN	313	223	180	150	130	130	149	1180	1490	822	544	504
AC-FT	42760	17240	14640	10330	7800	10120	25860	128300	125400	72970	48980	50620
CFSM	2.97	1.24	1.02	0.72	0.60	0.70	1.86	8.92	9.00	5.07	3.40	3.64
IN.	3.43	1.38	1.17	0.83	0.62	0.81	2.07	10.29	10.05	5.85	3.93	4.06

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2005, BY WATER YEAR (WY)#

	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	2005
MEAN	921	475	296	236	189	158	267	1369	2667	2119	1226	959															
MAX	1777	1735	687	528	433	240	435	2344	3957	3986	2699	1556															
(WY)	1981	2003	2003	1981	2003	1984	2005	2004	2001	1980	1981	1999															
MIN	500	221	198	133	113	106	119	748	1736	1131	596	362															
(WY)	1998	1986	1999	1999	1999	1999	1985	1985	1989	2004	2004	2004															

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

# SOUTH-CENTRAL ALASKA

## 15271000 SIXMILE CREEK NEAR HOPE—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1979 - 2005#	
ANNUAL TOTAL	275568		279821			
ANNUAL MEAN	753		767			
HIGHEST ANNUAL MEAN					914	
LOWEST ANNUAL MEAN					1335	1980
HIGHEST DAILY MEAN	3600	May 24	3940	May 14	675	1986
LOWEST DAILY MEAN	a150	Mar 31	b130	Feb 19	7570	Jul 12 1980
ANNUAL SEVEN-DAY MINIMUM	153	Mar 27	130	Feb 19	c80	Apr 1 1986
MAXIMUM PEAK FLOW			4590	May 14	80	Apr 1 1986
MAXIMUM PEAK STAGE			11.85	May 14	10800	Oct 24 2002
INSTANTANEOUS LOW FLOW					13.56	Oct 24 2002
ANNUAL RUNOFF (AC-FT)	546600		555000		d29	Nov 26 1979
ANNUAL RUNOFF (CFSM)	3.22		3.28		662500	
ANNUAL RUNOFF (INCHES)	43.81		44.48		3.91	
10 PERCENT EXCEEDS	2280		2030		53.10	
50 PERCENT EXCEEDS	317		432		2390	
90 PERCENT EXCEEDS	181		150		522	
					146	

- # See Period of Record; partial years used in monthly statistics
- a Mar. 31 to Apr. 1
- b Feb. 19 to Mar. 7
- c Apr. 1 to Apr. 9, 1986
- d Sometime between Nov. 26, 1979 and Jan. 9, 1980, during release from storage behind snow-avalanche dam upstream from former gage site, site and datum then in use