

SOUTH-CENTRAL ALASKA

15271000 SIXMILE CREEK NEAR HOPE

LOCATION.--Lat 60°49'15", long 149°25'31", in SW¹/₄ SE¹/₄ 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 mi²

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 ft³/s and maximum (*)

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Oct. 03	1345	4360	11.76	May 24	0015	4070	11.64
Oct. 06	1515	*5480	*12.17	Jun. 08	0400	3510	11.39

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	763	e500	e280	e220	e190	185	e150	1060	2160	1780	678	430
2	920	e480	e280	e200	e190	185	e155	1460	2170	1630	704	476
3	2880	e480	e260	e200	e190	182	164	1470	2210	1480	713	457
4	2000	e460	e260	e200	e190	182	160	1490	2270	1490	698	375
5	2150	e440	e280	e200	e190	178	158	1780	2440	1390	649	342
6	4460	e420	e300	e200	e190	e170	196	2140	2600	1260	631	323
7	4080	e440	e280	e200	187	e170	245	2420	2990	1450	643	314
8	2520	e460	e260	e240	187	e170	258	2520	3150	1490	666	303
9	1930	e420	e260	e220	180	e165	264	2240	2720	1410	666	295
10	1520	e400	e240	e200	201	e165	270	1990	2400	1320	632	285
11	1290	e380	e240	e200	209	e165	268	2000	2130	1250	638	279
12	1130	e400	e240	e200	189	e165	266	2150	2030	1220	620	277
13	1000	e400	e240	e200	207	e165	269	2380	2020	1190	587	269
14	922	355	e220	e200	227	e160	274	2450	2100	1100	571	252
15	924	310	e220	e200	197	e160	295	2420	2270	1050	579	242
16	842	341	e220	e200	e190	e160	324	2330	2530	1010	580	234
17	783	e320	e220	e200	e190	e155	341	2260	3120	1020	629	226
18	741	e320	e220	e200	e180	e155	359	2210	2960	996	637	221
19	745	e340	e220	e200	e190	e155	367	2330	2860	995	624	227
20	696	e320	e220	e220	e200	e155	368	2560	2790	939	630	246
21	657	e320	e220	e240	216	e155	380	2750	2680	863	570	281
22	643	e320	e240	e220	217	e160	432	2820	2570	1110	571	268
23	e600	e340	e220	e220	206	e165	463	3250	2480	1020	564	279
24	e600	e320	e220	e200	210	e160	455	3600	2430	843	533	250
25	e650	e320	e220	e200	205	160	525	3430	2350	773	500	251
26	e650	e300	e220	e200	195	157	607	2870	2380	917	506	1000
27	e600	e300	e220	e190	193	156	621	2720	2330	983	602	605
28	e550	e300	e240	e190	188	154	601	2650	2180	893	536	451
29	e550	e280	e220	e190	185	154	634	2370	2050	790	455	491
30	e500	e280	e220	e190	---	152	679	2290	1870	726	435	918
31	e500	---	e220	e190	---	e150	---	2240	---	685	423	---
TOTAL	38796	11066	7420	6330	5689	5070	10548	72650	73240	35073	18470	10867
MEAN	1251	369	239	204	196	164	352	2344	2441	1131	596	362
MAX	4460	500	300	240	227	185	679	3600	3150	1780	713	1000
MIN	500	280	220	190	180	150	150	1060	1870	685	423	221
AC-FT	76950	21950	14720	12560	11280	10060	20920	144100	145300	69570	36640	21550
CFSM	5.35	1.58	1.02	0.87	0.84	0.70	1.50	10.0	10.4	4.83	2.55	1.55
IN.	6.17	1.76	1.18	1.01	0.90	0.81	1.68	11.55	11.64	5.58	2.94	1.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2004, 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
MEAN	933	485	299	240	192	158	258	1329	2696	2168	1248	964														
MAX	1777	1735	687	528	433	240	397	2344	3957	3986	2699	1556														
(WY)	1981	2003	2003	1981	2003	1984	1990	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

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15271000 SIXMILE CREEK NEAR HOPE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1979 - 2004#	
ANNUAL TOTAL	306329		295219			
ANNUAL MEAN	839		807		923	
HIGHEST ANNUAL MEAN					1335	1980
LOWEST ANNUAL MEAN					675	1986
HIGHEST DAILY MEAN	4460	Oct 6	4460	Oct 6	7570	Jul 12 1980
LOWEST DAILY MEAN	170	Apr 7	a150	Mar 31	b80	Apr 1 1986
ANNUAL SEVEN-DAY MINIMUM	172	Apr 3	153	Mar 27	80	Apr 1 1986
MAXIMUM PEAK FLOW			5480	Oct 6	10800	Oct 24 2002
MAXIMUM PEAK STAGE			12.17	Oct 6	13.56	Oct 24 2002
INSTANTANEOUS LOW FLOW					c29	Nov 26 1979
ANNUAL RUNOFF (AC-FT)	607600		585600		668400	
ANNUAL RUNOFF (CFSM)	3.59		3.45		3.94	
ANNUAL RUNOFF (INCHES)	48.70		46.93		53.57	
10 PERCENT EXCEEDS	2220		2340		2420	
50 PERCENT EXCEEDS	480		390		524	
90 PERCENT EXCEEDS	218		184		146	

- # See Period of Record; partial years used in monthly statistics
a Mar. 31 to Apr. 1
b Apr. 1 to Apr. 9, 1986
c 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