

SOUTH-CENTRAL ALASKA

15237730 GROUSE CREEK AT GROUSE LAKE OUTLET NEAR SEWARD

LOCATION.--Lat 60°11'54", long 149°22'24", in NE¹/₄ NE¹/₄ NW¹/₄ sec. 12, T. 1 N., R. 1 W. (Seward A-7 NE quad), Kenai Peninsula Borough, Hydrologic Unit 19020202, on right bank, 200 ft downstream from Grouse Lake outlet, 0.2 mi upstream from Seward Highway, 7 mi north of Seward.

DRAINAGE AREA.--6.22 mi².

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water stage recorder and crest-stage gage. Elevation of gage is 250 ft above sea level from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 100 ft³/s and water year maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage Height(ft)	Date	Time	Discharge (ft ³ /s)	Gage Height(ft)
Oct 03	13:00	145	6.53	May 06	21:00	128	6.31
Oct 06	20:45	*149	*6.58	Jun 17	12:30	131	6.34

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	44	15	e6.0	7.5	5.6	11	e6.5	65	49	12	10	6.8
2	40	15	6.4	7.1	5.7	11	e7.0	77	46	12	9.9	7.1
3	101	14	6.8	7.0	5.8	11	e8.0	72	43	11	9.4	7.4
4	72	13	7.4	6.7	5.7	10	e8.0	78	42	11	8.8	6.9
5	51	12	6.9	6.7	5.6	9.7	e10	98	42	11	8.7	6.9
6	111	13	6.6	6.6	5.4	9.2	e20	114	40	10	8.8	7.2
7	122	12	6.7	6.5	5.4	8.8	e35	114	e38	9.7	8.7	6.4
8	77	12	7.2	6.4	5.8	8.3	e32	103	e36	9.5	8.3	6.3
9	51	12	8.6	6.7	5.7	7.4	e30	87	35	9.2	8.4	6.3
10	41	11	14	6.9	8.2	9.0	27	82	33	9.0	8.2	5.8
11	35	11	14	6.8	11	8.6	26	86	31	8.7	8.0	5.8
12	31	11	14	6.4	9.2	8.5	22	91	28	8.5	7.9	5.9
13	25	10	13	6.4	8.6	8.4	19	93	25	8.4	7.7	e5.8
14	e24	9.9	11	6.2	9.0	8.4	18	91	23	8.1	7.8	e5.7
15	e21	8.6	11	6.0	8.6	8.2	18	82	21	8.0	e7.6	5.7
16	e18	8.2	10	5.9	8.1	7.7	21	79	40	7.8	e7.5	5.6
17	16	8.2	9.7	6.0	7.6	7.5	27	81	106	7.7	e7.4	5.5
18	15	7.9	9.2	6.2	7.2	7.2	26	81	60	7.8	e7.3	5.5
19	15	7.7	8.9	6.4	8.0	6.6	24	84	41	7.7	e7.3	5.8
20	14	8.0	8.7	6.5	7.6	6.7	24	93	34	7.5	7.3	6.9
21	13	8.4	8.5	6.4	11	6.9	23	96	29	7.5	7.2	7.1
22	13	8.2	8.6	7.5	19	6.9	27	91	23	7.9	6.8	7.2
23	12	7.7	8.1	6.6	19	6.8	29	89	19	8.7	6.5	10
24	13	7.8	7.6	6.2	16	6.8	27	82	17	7.8	6.3	8.5
25	16	7.5	7.0	6.0	15	6.8	30	77	16	7.2	6.6	7.9
26	29	e6.5	7.1	6.1	14	e6.7	34	e65	15	12	6.7	22
27	28	e6.0	6.9	6.0	13	e6.7	39	e60	14	17	8.1	13
28	21	e6.0	7.3	5.8	12	e6.6	43	e55	14	14	8.5	11
29	18	e6.0	8.2	5.5	11	e6.6	45	53	13	13	7.8	10
30	16	e6.0	9.8	5.4	---	e6.5	47	50	13	12	7.3	13
31	15	---	8.4	5.6	---	e6.0	---	51	---	11	7.1	---
TOTAL	1118	289.6	273.6	198.0	273.8	246.5	752.5	2520	986	302.7	243.9	235.0
MEAN	36.1	9.65	8.83	6.39	9.44	7.95	25.1	81.3	32.9	9.76	7.87	7.83
MAX	122	15	14	7.5	19	11	47	114	106	17	10	22
MIN	12	6.0	6.0	5.4	5.4	6.0	6.5	50	13	7.2	6.3	5.5
AC-FT	2220	574	543	393	543	489	1490	5000	1960	600	484	466
CFSM	5.80	1.55	1.42	1.03	1.52	1.28	4.03	13.1	5.28	1.57	1.26	1.26
IN.	6.69	1.73	1.64	1.18	1.64	1.47	4.50	15.07	5.90	1.81	1.46	1.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)#

	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	27.7	28.6	18.7	17.1	13.6	8.81	18.4	53.6
MAX	60.8	83.3	39.7	58.0	45.0	15.6	38.6	81.3
(WY)	2003	2003	2003	2001	2003	1998	1998	2004
MIN	11.8	7.41	8.83	5.23	3.34	2.69	5.81	29.9
(WY)	1998	2002	2004	1998	1999	1999	2002	2003

See Period of Record, partial year used in monthly statistics
e Estimated

SOUTH-CENTRAL ALASKA

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004#	
ANNUAL TOTAL	6003.8		7439.6			
ANNUAL MEAN	16.4		20.3		21.8	
HIGHEST ANNUAL MEAN					27.3	
LOWEST ANNUAL MEAN					15.4	
HIGHEST DAILY MEAN	277	Feb 5	122	Oct 7	326	
LOWEST DAILY MEAN	4.6	Aug 10	5.4	Jan 30	a2.1	
ANNUAL SEVEN-DAY MINIMUM	4.7	Aug 5	5.6	Feb 1	2.2	
MAXIMUM PEAK FLOW			149	Oct 6	478	
MAXIMUM PEAK STAGE			6.58	Oct 6	b8.14	
INSTANTANEOUS LOW FLOW			4.1	Mar 15	c1.5	
ANNUAL RUNOFF (AC-FT)	11910		14760		15790	
ANNUAL RUNOFF (CFSM)	2.64		3.27		3.50	
ANNUAL RUNOFF (INCHES)	35.91		44.49		47.60	
10 PERCENT EXCEEDS	33		52		55	
50 PERCENT EXCEEDS	10		9.1		11	
90 PERCENT EXCEEDS	6.0		6.2		5.6	

- # See Period of Record, partial year used in monthly statistics
a Mar. 9 and 10, 1999
b From crest-stage gage.
c From temporary blockage of channel upstream from gage