

SOUTH-CENTRAL ALASKA

15238978 BATTLE CREEK DIVERSION ABOVE BRADLEY LAKE NEAR HOMER

LOCATION.--Lat 59°44'45", long 150°50'22", in SW¹/₄ NE¹/₄ sec. 17, T. 5 S., R. 9 W. (Seldovia C-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on right bank 0.6 mi upstream from Bradley Lake and 25 mi east of Homer.

DRAINAGE AREA.--0.95 mi².

PERIOD OF RECORD.--August 1992 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,350 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. The entire flow of Battle Creek at the station has been diverted into Bradley Lake since October 1991.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 50 ft³/s and maximums (*).

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1130	*91	*6.76	Sep. 26	0515	67	6.39
Jun. 17	1630	60	6.27				

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	54	3.5	0.00	0.00	0.00	0.00	0.00	1.8	6.9	9.6	3.3	0.25
2	45	3.9	0.00	0.00	0.00	0.00	0.00	1.4	8.5	9.7	3.7	2.2
3	32	2.1	0.00	0.00	0.00	0.00	0.00	0.84	9.9	8.9	3.7	2.2
4	13	1.8	e0.00	0.00	0.00	0.00	0.00	0.83	13	11	3.0	1.4
5	10	1.7	0.00	0.00	0.00	0.00	0.00	1.2	14	8.9	2.8	0.66
6	30	2.1	0.00	0.00	0.00	0.00	e0.00	1.4	12	8.5	2.5	0.35
7	21	2.0	0.00	0.00	0.00	0.00	e0.00	1.7	14	11	2.2	0.18
8	11	2.3	0.00	0.00	0.00	0.00	e0.00	1.6	12	12	2.3	0.09
9	8.1	1.7	e0.00	0.00	0.00	0.00	e0.00	1.4	8.3	12	3.1	0.02
10	5.0	1.5	e0.00	0.00	e0.00	0.00	0.00	1.1	8.2	10	2.8	0.03
11	3.2	0.92	0.00	0.00	e0.00	0.00	0.00	1.3	9.6	9.3	2.4	0.04
12	2.2	0.89	0.00	0.00	0.00	0.00	0.00	1.6	9.5	10	2.3	0.00
13	1.8	0.92	0.00	0.00	e0.00	0.00	0.00	2.0	7.6	9.4	1.7	0.00
14	13	0.64	0.00	0.00	e0.00	0.00	0.00	2.4	9.2	7.4	1.6	0.00
15	16	0.47	0.00	0.00	e0.00	0.00	0.00	3.0	13	9.6	1.6	0.00
16	4.2	0.34	0.00	0.00	0.00	0.00	0.00	4.7	32	8.0	1.5	0.00
17	2.5	0.22	0.00	0.00	0.00	0.00	0.00	5.4	49	9.6	1.7	0.00
18	1.8	0.12	0.00	0.00	0.00	0.00	0.00	6.3	42	8.4	1.8	0.00
19	1.6	0.08	0.00	0.00	0.00	0.00	0.00	6.6	28	6.7	1.7	0.00
20	1.3	0.10	0.00	0.00	0.00	0.00	0.00	9.2	20	5.1	1.6	0.14
21	1.3	0.33	0.00	0.00	0.00	0.00	0.00	9.5	17	5.7	1.1	0.87
22	1.1	0.28	0.00	0.00	0.00	0.00	0.00	11	15	5.8	1.0	1.3
23	0.97	0.10	0.00	0.00	0.00	0.00	0.00	27	15	6.5	1.2	1.8
24	0.91	0.06	0.00	0.00	0.00	0.00	0.00	31	18	4.4	1.3	0.98
25	2.2	0.01	0.00	0.00	0.00	0.00	0.00	27	18	5.1	1.0	2.4
26	3.6	0.00	0.00	0.00	0.00	0.00	0.00	19	16	22	0.80	30
27	3.1	0.00	0.00	0.00	0.00	0.00	0.04	15	15	16	0.72	5.6
28	1.7	0.00	0.00	0.00	0.00	0.00	0.07	15	15	9.7	0.53	3.6
29	1.1	0.00	0.00	0.00	0.00	0.00	0.38	11	10	6.1	0.30	3.8
30	0.99	0.00	0.00	0.00	---	0.00	0.88	8.1	9.3	4.6	0.17	9.6
31	1.4	---	0.00	0.00	---	0.00	---	7.0	---	3.8	0.10	---
TOTAL	295.07	28.08	0.00	0.00	0.00	0.00	1.37	236.37	475.0	274.8	55.52	67.51
MEAN	9.52	0.94	0.00	0.00	0.00	0.00	0.05	7.62	15.8	8.86	1.79	2.25
MAX	54	3.9	0.00	0.00	0.00	0.00	0.88	31	49	22	3.7	30
MIN	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.83	6.9	3.8	0.10	0.00
AC-FT	585	56	0.00	0.00	0.00	0.00	2.7	469	942	545	110	134
CFSM	10.0	0.99	0.00	0.00	0.00	0.00	0.05	8.03	16.7	9.33	1.89	2.37
IN.	11.55	1.10	0.00	0.00	0.00	0.00	0.05	9.26	18.60	10.76	2.17	2.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)#

	4.32	2.14	0.54	0.05	0.22	0.00	0.12	3.12	14.2	11.1	5.39	6.41
MEAN	4.32	2.14	0.54	0.05	0.22	0.00	0.12	3.12	14.2	11.1	5.39	6.41
MAX	16.6	15.1	4.76	0.22	1.58	0.01	0.67	7.67	23.5	20.1	14.5	16.9
(WY)	2003	2003	2003	2003	2003	1998	1997	1993	1998	2001	2001	1995
MIN	0.21	0.01	0.00	0.00	0.00	0.00	0.00	0.21	5.55	1.83	0.09	0.91
(WY)	1997	2000	1996	1996	1996	1994	1999	1999	1996	1996	1996	1992

a Maximum discharge, Oct. 1, stage falling, peak occurred Sep. 20, 2004
b Maximum stage, Oct.1, stage falling, peak occurred Sep. 30, 2004
e Estimated

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1992 - 2004#	
ANNUAL TOTAL	1390.51		1433.72			
ANNUAL MEAN	3.81		3.92		4.01	
HIGHEST ANNUAL MEAN					5.98 2003	
LOWEST ANNUAL MEAN					1.23 1996	
HIGHEST DAILY MEAN					121 Oct 23 2002	
LOWEST DAILY MEAN	54	Oct 1	54	Oct 1	10.00 Jun 3 1992	
ANNUAL SEVEN-DAY MINIMUM	c0.00	Jan 1	d0.00	Nov 26	0.00 Jan 11 1993	
MAXIMUM PEAK FLOW	0.00 Jan 1		0.00 Nov 26		151 Oct 23 2002	
MAXIMUM PEAK STAGE			g91 Oct 2		7.50 Oct 23 2002	
ANNUAL RUNOFF (AC-FT)	2760		2840		2910	
ANNUAL RUNOFF (CFPM)	4.01		4.12		4.23	
ANNUAL RUNOFF (INCHES)	54.45		56.14		57.42	
10 PERCENT EXCEEDS	12		12		13	
50 PERCENT EXCEEDS	0.84		0.34		0.40	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

See Period of Record and Remarks, partial years used in summary statistics

c No flow many days during winter, and Sep. 19

d No flow Nov. 26 to Apr. 26, and Sep. 12-19

f No flow many days most winters, and Jun. 3, 1992 (observation), Aug. 4, Aug. 5, Aug. 9, Aug. 14 - Sep. 11, 1986, Sep. 19, 2003, and Sep. 12-19, 2004

g Maximum discharge, 116 ft³/s, Oct. 1, gage-height 7.10 ft., stage falling, peak occurred Sep. 30, 2004; maximum peak discharge, 91 ft³/s, Oct. 2, gage-height 6.76 ft