

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)
Oct. 3	1930	*91	*6.76

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	6.0	0.18	e0.30	0.00	e0.00	e0.00	e0.00	2.0	9.7	9.0	2.7	0.72
2	5.6	0.05	e0.10	0.00	e0.00	e0.00	e0.00	1.4	6.8	7.2	2.8	0.45
3	41	e0.04	e0.05	0.25	e0.00	e0.00	e0.00	1.3	5.6	8.3	3.1	0.55
4	54	e0.03	e0.02	1.1	e0.00	e0.00	e0.00	1.2	7.4	7.8	2.8	3.2
5	20	e0.02	0.01	0.38	e0.00	e0.00	e0.00	1.2	10	8.1	2.4	2.3
6	8.0	e0.02	0.00	0.11	e0.00	e0.00	e0.00	2.3	13	7.9	2.2	4.9
7	4.6	e0.01	e0.00	0.01	e0.00	e0.00	e0.00	1.5	16	7.5	2.2	3.0
8	3.1	e0.01	0.00	0.00	e0.00	e0.00	e0.00	1.2	19	8.3	2.2	2.1
9	4.3	e0.05	0.00	0.00	e0.00	e0.02	e0.00	1.6	17	8.1	2.1	2.8
10	3.0	19	0.00	0.00	e0.00	e0.20	e0.00	2.0	17	8.3	2.0	4.3
11	3.3	4.3	0.00	0.00	e0.00	e0.40	e0.00	2.3	14	11	2.0	2.5
12	18	1.5	0.00	0.00	e0.00	e0.60	e0.00	6.4	13	15	1.9	2.3
13	10	1.2	0.00	0.00	e0.00	e0.80	e0.00	9.9	9.9	11	1.8	2.0
14	6.7	0.86	0.00	0.00	e0.00	e0.40	e0.00	13	7.7	7.3	1.6	1.6
15	4.2	0.59	0.00	0.00	e0.00	e0.20	e0.00	13	8.6	5.8	1.5	1.8
16	3.2	0.40	0.00	e0.00	e0.00	e0.10	e0.00	9.1	13	9.3	1.7	8.4
17	2.3	0.23	e0.02	e0.00	e0.00	e0.08	e0.00	6.7	14	6.6	2.1	9.2
18	1.7	0.21	0.61	e0.00	e0.00	e0.06	e0.00	5.2	34	6.2	2.4	4.6
19	1.8	0.33	0.19	e0.00	e0.00	e0.04	e0.01	4.8	15	6.5	1.7	3.6
20	1.4	0.36	0.02	e0.00	e0.00	e0.02	e0.02	5.8	11	5.3	1.3	2.6
21	1.1	0.21	0.00	e0.00	e0.00	e0.00	e0.02	7.2	9.8	6.6	1.9	2.1
22	0.79	0.18	e0.02	e0.02	e0.00	e0.00	e0.04	7.5	10	5.9	1.5	2.0
23	1.0	0.50	1.4	e0.00	e0.00	e0.00	e0.06	7.6	8.1	4.5	2.0	2.6
24	0.93	0.69	0.47	e0.00	e0.00	e0.00	e0.10	8.1	7.6	5.8	1.4	4.1
25	0.62	0.28	0.14	e0.00	e0.00	e0.00	e0.40	8.4	8.1	9.7	0.96	2.5
26	0.66	0.09	0.02	e0.00	e0.00	e0.00	e0.80	8.4	7.8	6.8	0.79	2.1
27	1.2	0.74	0.00	e0.00	e0.00	e0.00	e1.2	21	9.2	5.1	0.78	23
28	0.94	3.3	0.00	e0.00	e0.00	e0.00	1.9	28	8.9	4.5	0.73	14
29	0.68	1.1	0.00	e0.00	---	e0.00	4.0	24	9.4	3.6	1.0	6.1
30	0.53	0.60	0.00	e0.00	---	e0.00	3.1	14	9.2	2.9	1.1	4.0
31	0.34	---	0.00	e0.00	---	e0.00	---	11	---	2.6	0.79	---
TOTAL	210.99	37.08	3.37	1.87	0.00	2.92	11.65	237.1	349.8	222.5	55.45	125.42
MEAN	6.81	1.24	0.11	0.06	0.00	0.09	0.39	7.65	11.7	7.18	1.79	4.18
MAX	54	19	1.4	1.1	0.00	0.80	4.0	28	34	15	3.1	23
MIN	0.34	0.01	0.00	0.00	0.00	0.00	0.00	1.2	5.6	2.6	0.73	0.45
AC-FT	418	74	6.7	3.7	0.00	5.8	23	470	694	441	110	249
CFSM	7.16	1.30	0.11	0.06	0.00	0.10	0.41	8.05	12.3	7.56	1.88	4.40
IN.	8.26	1.45	0.13	0.07	0.00	0.11	0.46	9.28	13.70	8.71	2.17	4.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)#

	4.52	2.07	0.50	0.05	0.21	0.01	0.14	3.47	14.0	10.8	5.12	6.25
MEAN	4.52	2.07	0.50	0.05	0.21	0.01	0.14	3.47	14.0	10.8	5.12	6.25
MAX	16.6	15.1	4.76	0.22	1.58	0.09	0.67	7.67	23.5	20.1	14.5	16.9
(WY)	2003	2003	2003	2003	2003	2005	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

See Period of Record; partial year was used in monthly statistics, and Remarks.
e Estimated

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005#	
ANNUAL TOTAL	1362.01		1258.15			
ANNUAL MEAN	3.72		3.45		3.97	
HIGHEST ANNUAL MEAN					5.98	
LOWEST ANNUAL MEAN					1.23	
HIGHEST DAILY MEAN					121	
LOWEST DAILY MEAN	54	Oct 4	54	Oct 4	c0.00	Oct 23 2002
ANNUAL SEVEN-DAY MINIMUM	a0.00	Jan 1	b0.00	Dec 6	0.00	Jun 3 1992
MAXIMUM PEAK FLOW	0.00	Jan 1	0.00	Dec 6	0.00	Jan 11 1993
MAXIMUM PEAK STAGE			d91	Oct 3	151	Oct 23 2002
ANNUAL RUNOFF (AC-FT)	2700		2500		2880	
ANNUAL RUNOFF (CFSM)	3.92		3.63		4.18	
ANNUAL RUNOFF (INCHES)	53.33		49.27		56.80	
10 PERCENT EXCEEDS	11		9.7		13	
50 PERCENT EXCEEDS	0.36		0.93		0.47	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

- # See Period of Record; partial year was used in monthly statistics, and Remarks.
a No flow Jan. 1 to Apr. 26, Sep. 12-19, Dec. 6-16, Dec. 21, and Dec. 27-31
b No Flow Dec. 6-16, Dec. 21, Dec. 27-Jan. 2, Jan. 8-21, Jan. 23-Mar. 8, and Mar. 21-Apr. 18
c No flow many days most winters, and Jun. 3, 1992 (observation), Aug. 4, Aug. 5, Aug. 9, Aug. 14 - Sept. 11, 1996, Sept. 19, 2003, and Sept. 12-19, 2004.
d From crest-stage gage.