

SOUTH-CENTRAL ALASKA

15239050 MIDDLE FORK BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°46'42", long 150°45'15", in NW¼ NE¼ sec.2, T.5 S., R.9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on left bank 6.0 mi upstream from mouth and 27 mi east of Homer.

DRAINAGE AREA.--9.25 mi².

PERIOD OF RECORD.--October 1979 to current year. Published as Bradley River tributary near Homer prior to October 1989.

REVISED RECORDS.-- WDR AK-86-1: 1980(P), 1981-82(M), 1984(M). WRD AK-2000-1: 1995-1997.

GAGE.--Water-stage recorder. Elevation of gage is 2,300 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Precipitation gage and air temperature recorder at station; daily values of air temperature and precipitation are available from the computer files of the Alaska Science Center, Water-Resources office. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximums (*).

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 01	1145	532	9.51	Jun. 17	2115	*684	*9.72
Oct. 02	1045	676	9.71	Jun. 24	2015	324	9.23
Oct. 03	0600	580	9.58	Jul. 26	1600	580	9.60
Oct. 06	1900	668	9.70				

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	449	29	e9.0	e6.5	e5.5	e5.0	e4.4	e4.8	73	202	163	109
2	464	37	e8.0	e6.5	e5.5	e5.0	e4.4	e5.5	72	190	217	134
3	496	34	e8.0	e6.5	e5.5	e5.0	e4.4	e6.0	76	186	184	e120
4	345	32	e9.0	e6.5	e5.5	e5.0	e4.4	e7.0	87	197	163	e100
5	351	31	e9.0	e6.5	e5.5	e4.8	e4.4	e8.0	98	187	167	e90
6	574	30	e9.0	e6.5	e5.5	e4.8	e4.4	e9.0	115	189	156	e80
7	423	29	e9.0	e6.5	e5.5	e4.8	e4.2	e10	146	225	155	e70
8	225	30	e9.0	e6.5	e5.5	e4.8	e4.2	e13	137	229	163	e60
9	164	28	e9.0	e6.5	e5.5	e4.8	e4.2	e14	104	241	178	e44
10	119	27	e8.5	e6.5	e5.5	e4.8	e4.2	e15	88	225	e185	49
11	93	e22	e8.5	e6.0	e5.5	e4.8	e4.2	e15	87	206	e185	41
12	75	e17	e8.5	e6.0	e5.5	e4.8	e4.2	e16	78	198	e185	36
13	64	e15	e8.5	e6.0	e5.0	e4.8	e4.2	e16	73	184	e185	35
14	71	e13	e8.5	e6.0	e5.0	e4.8	e4.2	e17	90	172	e185	30
15	76	e12	e8.0	e6.0	e5.0	e4.8	e4.2	e18	129	171	e185	28
16	60	e11	e8.0	e6.0	e5.0	e4.8	e4.2	e20	303	161	e180	25
17	49	e10	e8.0	e6.0	e5.0	e4.8	e4.2	e23	532	182	e175	23
18	45	e13	e8.0	e6.0	e5.0	e4.8	e4.2	e25	539	181	e170	21
19	42	e15	e8.0	e6.0	e5.0	e4.8	e4.2	e28	390	163	e165	23
20	37	e16	e7.5	e6.0	e5.0	e4.8	e4.2	e32	332	145	145	27
21	34	e15	e7.5	e6.0	e5.0	e4.8	e4.0	e36	302	148	135	27
22	32	e14	e7.5	e6.0	e5.0	e4.8	e4.0	e40	275	159	140	34
23	30	e13	e7.0	e6.0	e5.0	e4.8	e4.0	e45	262	163	170	37
24	28	e12	e6.5	e5.5	e5.0	e4.8	e4.0	e50	279	134	152	31
25	30	e12	e6.0	e5.5	e5.0	e4.6	e4.0	e58	291	140	124	33
26	34	e11	e6.0	e5.5	e5.0	e4.6	e4.2	e68	283	325	111	109
27	31	e11	e6.5	e5.5	e5.0	e4.6	e4.2	e80	277	328	91	66
28	28	e10	e7.0	e5.5	e5.0	e4.4	e4.4	e90	266	237	73	49
29	31	e10	e7.0	e5.5	e5.0	e4.4	e4.6	e110	238	186	72	55
30	25	e10	e7.0	e5.5	---	e4.4	e4.8	99	213	167	76	114
31	24	---	e7.0	e5.5	---	e4.4	---	79	---	155	73	---
TOTAL	4549	569	244.0	187.0	151.0	147.4	127.4	1057.3	6235	5976	4708	1700
MEAN	147	19.0	7.87	6.03	5.21	4.75	4.25	34.1	208	193	152	56.7
MAX	574	37	9.0	6.5	5.5	5.0	4.8	110	539	328	217	134
MIN	24	10	6.0	5.5	5.0	4.4	4.0	4.8	72	134	72	21
AC-FT	9020	1130	484	371	300	292	253	2100	12370	11850	9340	3370
CFSM	15.9	2.05	0.85	0.65	0.56	0.51	0.46	3.69	22.5	20.8	16.4	6.13
IN.	18.29	2.29	0.98	0.75	0.61	0.59	0.51	4.25	25.07	24.03	18.93	6.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

	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	51.4	20.4	9.58	5.88	5.39	3.74	3.37	17.6	101	164	145	101														
MAX	147	106	37.5	17.0	23.0	7.17	4.42	44.5	208	221	204	220														
(WY)	2004	2003	2003	1981	2003	1981	2001	1990	2004	2001	2001	1995														
MIN	15.6	5.29	4.45	3.82	2.86	1.30	2.38	5.45	44.7	111	86.9	38.7														
(WY)	1997	1985	1985	1991	1991	1986	1999	1987	1985	1996	1996	1992														

e Estimated

SOUTH-CENTRAL ALASKA

15239050 MIDDLE FORK BRADLEY RIVER NEAR HOMER—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL TOTAL	24270.8		25651.1			
ANNUAL MEAN	66.5		70.1		52.7	
HIGHEST ANNUAL MEAN					75.3	2003
LOWEST ANNUAL MEAN					34.6	1996
HIGHEST DAILY MEAN	574	Oct 6	574	Oct 6	966	Sep 20 1995
LOWEST DAILY MEAN	a3.8	Apr 13	b4.0	Apr 21	c1.1	Mar 28 1986
ANNUAL SEVEN-DAY MINIMUM	3.8	Apr 13	4.1	Apr 19	1.1	Mar 28 1986
MAXIMUM PEAK FLOW			684	Jun 17	1470	Sep 20 1995
MAXIMUM PEAK STAGE			9.72	Jun 17	10.09	Nov 5 2002
MAXIMUM PEAK STAGE					d16.16	May 12 1988
ANNUAL RUNOFF (AC-FT)	48140		50880		38160	
ANNUAL RUNOFF (CFSM)	7.19		7.58		5.70	
ANNUAL RUNOFF (INCHES)	97.61		103.16		77.38	
10 PERCENT EXCEEDS	198		189		156	
50 PERCENT EXCEEDS	18		16		12	
90 PERCENT EXCEEDS	4.8		4.7		3.4	

- a Apr. 13-21
- b Apr. 21-25
- c From Mar. 28 to Apr. 10, 1986
- d Backwater from ice