

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)
Oct. 03	2130	*475	*9.49

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	100	e16	e10	5.9	e4.0	3.3	e3.0	18	79	e180	e120	85
2	126	e15	e9.0	6.0	e3.8	3.3	e3.0	16	67	e180	e130	71
3	276	e15	e8.5	8.9	e3.6	3.3	e3.0	16	61	e180	e140	76
4	375	e15	e8.0	7.8	e3.6	3.2	e2.8	16	68	e180	e100	95
5	172	e15	e7.5	7.0	e3.6	e3.2	e2.4	16	90	e190	100	83
6	98	e15	e7.0	6.6	e3.8	e3.2	e2.4	15	110	e200	97	112
7	77	e15	e7.0	6.5	e3.8	e3.0	e3.0	15	120	e200	99	88
8	64	e16	e7.0	6.2	e4.0	e3.0	3.2	17	137	e200	102	76
9	58	e50	e7.5	6.1	e4.0	e3.4	3.2	19	129	e200	109	125
10	50	e110	e7.5	e5.5	e4.0	e3.2	3.1	22	125	e200	109	118
11	57	e45	e7.5	e5.5	e4.0	e3.2	3.1	25	122	e200	113	99
12	59	25	e7.5	5.7	e3.8	e3.0	3.1	39	114	e240	118	103
13	79	18	e7.5	5.7	e3.8	e3.0	3.2	49	104	e260	114	85
14	70	16	e7.0	5.6	e3.8	e3.6	3.2	56	e95	e240	110	72
15	56	15	e7.0	5.5	e3.8	3.5	3.2	45	e100	e240	108	93
16	46	13	e7.0	5.4	e3.6	3.4	3.2	37	e110	e280	107	111
17	40	e12	e7.0	5.4	e3.6	3.3	3.3	35	e120	e260	134	94
18	37	e12	e7.0	5.3	e3.6	3.3	3.3	33	e130	e240	136	77
19	34	e11	e7.0	5.2	e3.6	3.3	3.4	37	e150	e240	113	68
20	30	e11	e7.0	5.3	e3.4	3.3	3.4	41	e140	e240	106	62
21	29	e10	e6.5	5.3	e3.4	e3.0	3.5	42	e130	e260	116	55
22	29	e10	e6.5	5.2	e3.4	e2.6	e4.5	42	e130	e240	95	72
23	26	e10	e6.5	5.2	e3.4	e2.4	e5.5	43	e125	e220	122	93
24	24	e9.5	e6.5	5.2	3.4	e2.4	e7.5	47	113	e240	100	88
25	26	e9.5	e6.5	e5.0	3.4	e2.4	9.0	45	121	e330	86	62
26	22	9.2	e6.5	5.2	3.4	e2.4	9.8	49	124	e260	81	53
27	20	18	e6.5	5.1	3.4	e2.4	12	78	133	e200	84	97
28	20	15	e6.0	5.0	3.3	e2.6	16	116	154	e160	82	103
29	e18	12	e6.0	e4.8	---	e2.8	20	121	171	e130	94	83
30	e17	11	e6.0	e4.6	---	e3.0	21	134	e178	e110	113	71
31	e16	---	6.1	e4.4	---	e3.0	---	98	---	e120	94	---
TOTAL	2151	574.2	220.1	176.1	102.3	94.0	170.3	1382	3550	6620	3332	2570
MEAN	69.4	19.1	7.10	5.68	3.65	3.03	5.68	44.6	118	214	107	85.7
MAX	375	110	10	8.9	4.0	3.6	21	134	178	330	140	125
MIN	16	9.2	6.0	4.4	3.3	2.4	2.4	15	61	110	81	53
AC-FT	4270	1140	437	349	203	186	338	2740	7040	13130	6610	5100
CFSM	7.50	2.07	0.77	0.61	0.39	0.33	0.61	4.82	12.8	23.1	11.6	9.26
IN.	8.65	2.31	0.89	0.71	0.41	0.38	0.68	5.56	14.28	26.62	13.40	10.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, 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	2005	
MEAN	52.1	20.3	9.48	5.88	5.33	3.72	3.46	18.6	102	166	143	100															
MAX	147	106	37.5	17.0	23.0	7.17	5.68	44.6	208	221	204	220															
(WY)	2004	2003	2003	1981	2003	1981	2005	2005	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

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL TOTAL	23234.4		20942.0			
ANNUAL MEAN	63.5		57.4		52.9	
HIGHEST ANNUAL MEAN					75.3	2003
LOWEST ANNUAL MEAN					34.6	1996
HIGHEST DAILY MEAN	539	Jun 18	375	Oct 4	966	Sep 20 1995
LOWEST DAILY MEAN	a4.0	Apr 21	b2.4	Mar 23	c1.1	Mar 28 1986
ANNUAL SEVEN-DAY MINIMUM	4.1	Apr 19	2.5	Mar 22	1.1	Mar 28 1986
MAXIMUM PEAK FLOW			475	Oct 3	1470	Sep 20 1995
MAXIMUM PEAK STAGE			9.49	Oct 3	10.09	Nov 5 2002
MAXIMUM PEAK STAGE					d16.16	May 12 1988
ANNUAL RUNOFF (AC-FT)	46090		41540		38290	
ANNUAL RUNOFF (CFSM)	6.86		6.20		5.71	
ANNUAL RUNOFF (INCHES)	93.44		84.22		77.64	
10 PERCENT EXCEEDS	185		140		156	
50 PERCENT EXCEEDS	15		18		12	
90 PERCENT EXCEEDS	4.7		3.3		3.4	

- a Apr. 21-25
- b Mar. 23-27 and Apr. 5, 6
- c From Mar. 28 to Apr. 10, 1986
- d Backwater from ice