

SOUTH-CENTRAL ALASKA

15239060 MIDDLE FORK BRADLEY RIVER BELOW NORTH FORK BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°47'54", long 150°51'48", in SE¹/₄ NE¹/₄ SW¹/₄ sec. 29, T. 4 S., R. 9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on left bank 100 ft upstream from confluence with the main stem Bradley River, 0.2 mi below the mouth of the North Fork Bradley River, 5.5 mi downstream from the Middle Fork Bradley River diversion dam, and 25 mi east of Homer.

DRAINAGE AREA.--24.8 mi².

PERIOD OF RECORD.--August 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Water from upper Middle Fork Bradley River (15239050) is diverted into Bradley Lake at Middle Fork Bradley River diversion dam, located 5.5 mi upstream. Air temperature recorder at station, daily values of air temperature are available from the computer files of the Alaska Science Center, Water Resources Office.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004											
	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	255	e58	e11	e4.0	e4.5	e4.5	e3.0	e90	e150	86	42	20
2	290	e59	e10	e4.0	e4.5	e4.5	e3.0	e90	e150	76	45	28
3	362	e52	e9.0	e4.0	e4.5	e5.0	e3.0	e120	e155	72	49	30
4	224	e52	e9.0	e4.0	e4.5	e5.0	e5.0	e180	e155	72	44	25
5	164	e42	e9.0	e4.0	e4.0	e5.0	e7.0	e230	e156	71	39	20
6	322	e45	e9.0	e4.0	e4.0	e5.0	e13	e260	158	73	37	18
7	316	e48	e7.0	e4.0	e4.0	e5.0	e25	e320	182	87	36	16
8	194	e54	e7.0	e4.0	e4.0	e4.5	e24	e290	157	89	36	15
9	175	e51	e6.0	e4.0	e4.5	e4.5	e25	e230	119	92	37	15
10	127	e48	e7.0	e4.0	e4.5	e4.5	e23	e210	114	87	37	14
11	99	e42	e7.0	e4.0	e4.5	e4.5	e20	e215	119	78	36	14
12	80	e44	e6.0	e4.0	e4.5	e4.0	e18	e220	113	73	35	14
13	69	e40	e6.0	e4.0	e4.5	e4.0	e20	e230	101	67	32	13
14	73	e41	e6.0	e4.0	e4.5	e4.0	e22	e230	111	60	30	12
15	83	e42	e6.0	e4.0	e4.0	e4.0	e24	e220	133	57	31	12
16	71	e37	e6.0	e4.0	e4.0	e4.0	e30	e240	278	53	30	11
17	63	e38	e6.0	e4.0	e4.0	e4.0	e38	e260	400	55	31	11
18	59	e39	e6.0	e4.0	e4.0	e4.0	e36	e280	350	53	31	11
19	56	e38	e6.0	e4.0	e4.0	e4.0	e40	e270	261	48	30	11
20	49	e34	e5.0	e4.0	e4.0	e4.0	e38	e270	208	43	30	14
21	e53	e30	e5.0	e4.0	e4.5	e4.0	e43	e290	178	41	27	20
22	e53	e27	e4.5	e4.0	e4.5	e4.0	e42	e310	153	40	26	22
23	e49	e27	e4.5	e4.0	e4.5	e4.0	e43	e410	141	42	27	26
24	e49	e24	e4.5	e4.0	e4.5	e4.0	e47	e400	142	37	27	21
25	e70	e25	e4.5	e4.0	e4.5	e4.0	e48	e350	148	35	25	24
26	e100	e18	e4.5	e4.0	e4.5	e4.0	e50	e280	148	68	24	114
27	e117	e16	e4.5	e4.0	e4.5	e3.0	e52	e250	139	72	24	71
28	e93	e11	e5.0	e4.0	e4.5	e3.0	e53	e230	119	59	21	58
29	e74	e11	e5.0	e4.0	e4.5	e3.0	e60	e165	91	51	19	63
30	e63	e12	e5.0	e4.0	---	e3.0	e70	e160	88	49	18	100
31	e59	---	e5.0	e4.0	---	e3.0	---	e155	---	46	17	---
TOTAL	3911	1105	196.0	124.0	125.5	127.0	925.0	7455	4917	1932	973	843
MEAN	126	36.8	6.32	4.00	4.33	4.10	30.8	240	164	62.3	31.4	28.1
MAX	362	59	11	4.0	4.5	5.0	70	410	400	92	49	114
MIN	49	11	4.5	4.0	4.0	3.0	3.0	90	88	35	17	11
AC-FT	7760	2190	389	246	249	252	1830	14790	9750	3830	1930	1670
CFSM	5.09	1.49	0.25	0.16	0.17	0.17	1.24	9.70	6.61	2.51	1.27	1.13
IN.	5.87	1.66	0.29	0.19	0.19	0.19	1.39	11.18	7.38	2.90	1.46	1.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)#

	1996	1997	1998	1999	2000	2001	2002	2003	2004			
MEAN	85.4	77.8	28.3	18.0	19.1	9.29	22.4	127	177	98.4	46.3	64.6
MAX	267	309	95.5	75.3	81.4	20.7	36.4	240	277	193	120	116
(WY)	2003	2003	2003	2001	2003	1998	1998	2004	2001	2001	2001	1997
MIN	23.2	16.2	6.32	2.68	2.00	2.74	9.59	74.0	82.3	45.7	12.5	25.0
(WY)	1997	2000	2004	1999	1999	1999	1999	2003	2003	1997	1996	2003

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1996 - 2004#

ANNUAL TOTAL	17076.1	22633.5		
ANNUAL MEAN	46.8	61.8	65.2	
HIGHEST ANNUAL MEAN			90.8	2001
LOWEST ANNUAL MEAN			44.0	1997
HIGHEST DAILY MEAN	423	Feb 5	410	May 23
LOWEST DAILY MEAN	a4.4	Apr 7	b3.0	Mar 27
ANNUAL SEVEN-DAY MINIMUM	4.5	Apr 4	3.0	Mar 27
MAXIMUM PEAK FLOW			d532	Oct 2
MAXIMUM PEAK STAGE			11.80	Oct 2
ANNUAL RUNOFF (AC-FT)	33870	44890	47270	
ANNUAL RUNOFF (CFSM)	1.89	2.49	2.63	
ANNUAL RUNOFF (INCHES)	25.61	33.95	35.75	
10 PERCENT EXCEEDS	89	186	159	
50 PERCENT EXCEEDS	30	30	33	
90 PERCENT EXCEEDS	6.6	4.0	5.3	

See Period of Record; partial years used in monthly statistics

a Apr. 7-8

b From Mar. 27 to Apr. 3

c Feb. 5-12, 1999

d From rating curve extended above 52 ft³/s on basis of comparison of instantaneous discharge of Bradley River below Dam (15239001) and instantaneous discharge of Bradley River near Tidewater (15239070)

e Estimated