

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 January 6 to April 27 and 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.

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	103	e26	80	e20	e14	e13	e9.0	206	120	72	22	15
2	98	e26	71	e28	e12	e12	e8.0	175	108	64	21	13
3	203	e25	59	48	e11	e11	e7.0	150	96	60	22	13
4	406	e25	e38	65	e11	12	e6.0	139	103	56	22	15
5	273	e24	e34	56	11	13	e7.0	134	123	55	22	16
6	158	e23	e30	51	12	13	e7.0	129	136	59	20	26
7	108	e22	e21	47	13	13	e7.0	121	131	56	19	24
8	87	e21	e20	43	13	19	e8.0	121	142	56	19	20
9	80	e20	e18	39	12	27	e8.0	132	128	57	19	25
10	70	e100	e18	33	12	30	e9.0	148	122	55	19	36
11	65	e100	e17	e29	12	36	e10	148	117	54	18	29
12	103	e64	e16	e28	11	35	e11	190	108	56	18	28
13	119	e36	e15	e27	11	43	e11	216	98	52	18	26
14	128	e36	e14	e27	24	41	e13	226	92	46	17	23
15	105	e36	e13	e27	18	35	e14	179	95	43	16	23
16	94	e36	e12	27	14	31	e14	142	108	45	15	32
17	80	e36	e11	e25	13	28	e15	129	114	41	16	46
18	73	e35	e10	e24	12	25	e16	123	177	38	20	41
19	75	e35	e8.0	e23	12	e21	e20	128	121	41	17	38
20	66	e36	e8.0	24	13	e18	52	139	87	38	15	34
21	61	e36	e9.0	25	15	e12	72	142	83	39	19	31
22	e53	50	e18	26	15	e15	357	136	83	35	16	31
23	e53	51	e20	25	16	e17	300	129	74	31	17	35
24	e49	52	e20	23	16	e16	197	135	69	32	16	46
25	e44	46	e17	23	15	e15	170	130	71	43	13	38
26	e45	43	e15	21	e14	e14	162	127	71	38	12	35
27	e46	74	e15	20	e13	e13	175	163	72	32	11	90
28	e46	156	e14	e18	e13	e13	226	201	72	29	11	100
29	e44	91	e14	e16	---	e11	292	199	75	26	14	80
30	e41	73	e13	e16	---	e9.0	253	153	76	22	17	71
31	e38	---	e13	e16	---	e9.0	---	128	---	21	16	---
TOTAL	3014	1434	681.0	920	378	620.0	2456.0	4718	3072	1392	537	1080
MEAN	97.2	47.8	22.0	29.7	13.5	20.0	81.9	152	102	44.9	17.3	36.0
MAX	406	156	80	65	24	43	357	226	177	72	22	100
MIN	38	20	8.0	16	11	9.0	6.0	121	69	21	11	13
AC-FT	5980	2840	1350	1820	750	1230	4870	9360	6090	2760	1070	2140
CFSM	3.92	1.93	0.89	1.20	0.54	0.81	3.30	6.14	4.13	1.81	0.70	1.45
IN.	4.52	2.15	1.02	1.38	0.57	0.93	3.68	7.08	4.61	2.09	0.81	1.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)#

MEAN	86.7	74.5	27.6	19.3	18.5	10.5	29.1	130	168	92.5	43.4	61.8
MAX	267	309	95.5	75.3	81.4	20.7	81.9	240	277	193	120	116
(WY)	2003	2003	2003	2001	2003	1998	2005	2004	2001	2001	2001	1997
MIN	23.2	16.2	6.32	2.68	2.00	2.74	9.59	74.0	82.3	44.9	12.5	25.0
(WY)	1997	2000	2004	1999	1999	1999	1999	2003	2003	2005	1996	2003

See Period of Record; partial years used in monthly statistics
e Estimated

SOUTH-CENTRAL ALASKA

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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005#	
ANNUAL TOTAL	22550.5		20302.0			
ANNUAL MEAN	61.6		55.6		64.2	
HIGHEST ANNUAL MEAN					90.8	
LOWEST ANNUAL MEAN					44.0	
HIGHEST DAILY MEAN	410		406		1950	
LOWEST DAILY MEAN	a3.0	May 23	6.0	Oct 4	b1.0	Oct 23 2002
ANNUAL SEVEN-DAY MINIMUM	3.0	Mar 27	7.1	Apr 4	1.0	Feb 5 1999
MAXIMUM PEAK FLOW			466		c3940	
MAXIMUM PEAK STAGE			11.60		16.27	
MAXIMUM PEAK STAGE			d11.85		Oct 24 2002	
ANNUAL RUNOFF (AC-FT)	44730		40270		46500	
ANNUAL RUNOFF (CFSM)	2.48		2.24		2.59	
ANNUAL RUNOFF (INCHES)	33.83		30.45		35.16	
10 PERCENT EXCEEDS	162		134		157	
50 PERCENT EXCEEDS	31		31		32	
90 PERCENT EXCEEDS	4.0		12		5.7	

- # See Period of Record; partial years used in monthly statistics
- a From Mar. 27 to Apr. 3
- b Feb. 5-12, 1999
- c 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)
- d Backwater from ice.