

SOUTH-CENTRAL ALASKA

15258000 KENAI RIVER AT COOPER LANDING

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-53, 1955-60, 1966-74, 1976, 1994 and December 2002 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Water year 1950, and December 2002 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for 15-minute recording interval.

REMARKS.--Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with stream average by cross section on April 15, July 21, and September 13. No variation more than 2.7°C was found within the cross sections. No variation more than 1.2°C was found between mean stream temperature and sensor temperature. Occasional large variations across cross section similar to one detected on July 21 are due to recorder location at outlet of Kenai Lake. Variation across cross sections and difference between mean stream temperature and sensor temperature are both usually less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORDS.--

WATER TEMPERATURE: Maximum, 18.0°C, August 18, 19 2004; minimum, 0.0°C, on several days during most winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.0°C, August 16; minimum, 0.0°C, on several days in February and April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Loca- tion in X-sect. looking dnstrm ft from l bank (00009)	Sample loc- ation, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instan- taneous dis- charge, cfs (00061)	Sampl- er type, code (84164)	Sam- pling method, code (82398)	Temper- ature, water, deg C (00010)	Temper- ature, air, deg C (00020)
APR										
15...	1045	129	--	10.0	5.40	555	8010	10	2.7	6.8
15...	1047	129	--	25.0	5.40	555	8010	10	2.6	6.8
15...	1049	129	--	50.0	5.40	555	8010	10	2.3	6.8
15...	1051	129	--	75.0	5.40	555	8010	10	2.3	6.8
15...	1053	129	--	100.0	5.40	555	8010	10	2.3	6.8
JUL										
21...	1430	330	55.0	--	10.90	6210	8010	10	13.0	22.0
21...	1432	330	110	--	10.90	6210	8010	10	11.6	22.0
21...	1434	330	165	--	10.90	6210	8010	10	10.3	22.0
21...	1436	330	220	--	10.90	6210	8010	10	10.8	22.0
21...	1438	330	275	--	10.90	6210	8010	10	12.2	22.0
SEP										
13...	1242	343	60.0	--	10.06	4690	8010	10	10.2	14.2
13...	1244	343	95.0	--	10.06	4690	8010	10	10.0	14.2
13...	1246	343	130	--	10.06	4690	8010	10	10.0	14.2
13...	1248	343	180	--	10.06	4690	8010	10	10.1	14.2
13...	1250	343	225	--	10.06	4690	8010	10	10.1	14.2

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
		OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	7.0	7.5	5.5	4.5	5.0	3.5	2.5	3.0	2.0	1.5	1.5	
2	7.5	7.0	7.5	5.0	4.5	5.0	3.5	2.5	3.0	2.0	1.0	1.5	
3	7.5	7.0	7.5	5.0	4.5	4.5	3.5	2.5	3.0	2.0	1.0	1.5	
4	8.0	7.0	7.5	5.0	4.0	4.5	3.0	2.0	3.0	2.0	1.0	1.5	
5	8.0	7.0	7.5	4.5	4.0	4.0	3.5	2.5	3.0	2.5	1.5	2.0	
6	8.0	7.0	7.5	4.5	3.5	4.0	3.0	2.0	2.5	2.5	1.5	2.0	
7	8.0	7.0	7.5	4.0	3.5	4.0	2.5	2.0	2.0	3.0	1.5	2.0	
8	7.5	7.0	7.5	4.0	3.5	3.5	3.0	2.0	2.5	2.5	1.5	2.0	
9	7.5	7.0	7.5	4.0	3.0	3.5	2.5	1.5	2.0	2.5	2.0	2.0	
10	7.5	7.0	7.5	4.5	3.0	3.5	2.5	2.0	2.0	2.5	1.5	2.0	
11	7.5	7.0	7.5	4.0	3.0	3.5	2.5	1.5	2.0	2.5	1.5	2.0	
12	7.5	7.0	7.5	4.0	3.0	3.5	2.5	1.5	2.0	2.5	1.5	2.0	
13	7.5	7.0	7.0	4.0	3.0	3.5	2.5	1.5	2.0	2.0	1.0	2.0	
14	7.5	7.0	7.0	4.0	3.0	3.5	2.5	1.5	2.0	1.5	1.0	1.0	
15	7.5	7.0	7.0	4.0	3.0	3.5	2.5	1.5	2.0	1.5	1.0	1.5	
16	7.5	7.0	7.0	4.0	3.0	3.5	3.0	2.0	2.5	2.0	1.0	1.5	
17	7.5	6.5	7.0	4.0	3.0	3.5	3.0	2.0	2.5	1.5	1.0	1.5	
18	7.0	6.5	7.0	4.0	3.0	3.5	3.0	2.0	2.5	1.5	1.0	1.0	
19	7.0	6.5	7.0	3.5	3.0	3.5	3.0	2.0	2.5	1.5	1.0	1.5	
20	7.0	6.5	6.5	3.5	3.0	3.0	3.5	2.0	2.5	2.0	1.0	1.5	
21	7.0	6.5	6.5	3.5	2.5	3.0	2.5	1.5	2.0	2.0	1.0	1.5	
22	6.5	6.0	6.5	3.5	2.5	3.0	3.0	2.0	2.5	2.0	1.5	1.5	
23	6.5	6.0	6.5	3.5	2.5	3.0	3.0	2.0	2.5	2.0	1.0	1.5	
24	6.5	6.0	6.5	3.5	3.0	3.0	2.5	1.5	2.0	2.0	1.0	1.5	
25	6.5	6.0	6.0	3.5	3.0	3.0	2.5	1.5	2.0	2.0	1.0	1.5	
26	6.5	6.0	6.0	3.5	2.5	3.0	2.5	1.5	2.0	2.0	1.0	1.5	
27	6.0	5.5	6.0	3.5	2.5	3.0	2.0	1.0	1.5	1.5	1.0	1.0	
28	6.0	5.5	6.0	3.5	2.5	3.0	2.5	1.5	2.0	1.5	1.0	1.0	
29	6.0	5.5	6.0	3.5	2.5	3.0	2.0	1.5	2.0	1.5	1.0	1.5	
30	6.0	5.5	5.5	3.5	2.5	3.0	2.0	1.5	2.0	1.5	1.0	1.0	
31	6.0	5.0	5.5	---	---	---	2.0	1.5	2.0	1.5	0.5	1.0	
MONTH	8.0	5.0	6.9	5.5	2.5	3.5	3.5	1.0	2.3	3.0	0.5	1.5	

SOUTH-CENTRAL ALASKA

15258000 KENAI RIVER AT COOPER LANDING—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.5	1.0	2.0	0.5	1.0	3.0	1.0	1.5	4.5	3.5	4.0
2	1.5	0.5	1.0	2.0	0.5	1.0	2.5	0.5	1.5	4.5	3.5	4.0
3	1.5	1.0	1.5	2.0	0.5	1.0	3.0	1.0	1.5	5.0	3.5	4.0
4	2.0	1.0	1.5	2.0	0.5	1.0	2.5	1.0	1.5	5.0	3.5	4.0
5	2.0	1.0	1.5	2.0	1.0	1.5	2.5	1.0	1.5	4.5	3.5	4.0
6	2.0	1.5	2.0	2.0	1.0	1.5	2.5	1.0	2.0	5.0	3.5	4.0
7	2.0	0.5	1.5	2.5	1.0	1.5	3.0	1.0	2.0	5.0	3.5	4.0
8	1.5	0.0	1.0	2.0	1.0	1.5	3.0	1.0	2.0	5.0	4.0	4.5
9	1.5	0.5	1.0	2.0	1.0	1.5	3.0	1.0	2.0	5.0	3.5	4.0
10	1.5	0.0	0.5	2.0	1.0	1.5	3.0	1.0	2.0	5.0	4.0	4.5
11	1.0	0.0	0.5	2.0	1.0	1.5	3.5	1.0	2.5	6.0	3.5	4.5
12	1.0	0.0	0.5	1.5	1.0	1.0	4.0	1.0	2.5	6.5	5.0	5.5
13	1.5	0.5	1.0	2.0	1.0	1.5	4.0	1.5	2.5	5.5	4.5	5.0
14	1.5	0.5	1.0	2.0	0.5	1.5	4.0	1.5	2.5	5.5	4.5	5.0
15	1.5	0.0	1.0	2.0	0.5	1.5	4.0	2.0	2.5	5.5	4.5	5.0
16	1.0	0.0	0.5	2.0	0.5	1.5	4.0	1.5	2.5	5.5	4.5	5.0
17	1.5	0.0	0.5	2.5	0.5	1.5	4.5	2.0	3.0	5.5	4.5	5.0
18	1.5	0.0	0.5	2.5	1.0	1.5	3.5	1.5	2.5	5.5	4.0	5.0
19	1.5	0.5	1.0	3.0	1.0	1.5	3.0	1.5	2.0	5.0	4.0	4.5
20	1.5	0.5	1.0	2.5	0.5	1.5	3.5	0.0	2.0	6.5	4.0	5.5
21	1.5	0.5	1.0	2.0	1.0	1.5	3.0	0.0	2.0	6.0	4.5	5.5
22	1.5	0.5	1.0	2.0	1.0	1.5	4.5	2.0	3.0	5.5	4.0	4.5
23	1.5	0.5	1.0	3.0	1.0	1.5	4.0	2.5	3.0	5.0	4.0	4.5
24	1.5	0.5	1.0	2.5	1.0	1.5	4.0	2.5	3.5	6.5	4.0	5.0
25	1.5	0.5	1.0	2.5	1.0	1.5	4.0	2.5	3.5	6.5	4.5	5.5
26	1.5	0.5	1.0	2.5	0.5	1.5	4.0	2.5	3.5	6.5	5.0	5.5
27	2.0	0.5	1.0	2.5	0.5	1.5	4.0	3.0	3.5	6.0	5.0	5.5
28	1.5	0.5	1.0	2.5	0.5	1.5	4.5	3.0	3.5	6.0	4.5	5.0
29	---	---	---	2.5	0.5	1.5	4.5	3.0	3.5	6.0	4.5	5.0
30	---	---	---	2.5	0.5	1.5	4.5	3.0	4.0	6.0	4.5	5.0
31	---	---	---	2.5	1.0	1.5	---	---	---	6.0	4.5	5.5
MONTH	2.0	0.0	1.0	3.0	0.5	1.4	4.5	0.0	2.5	6.5	3.5	4.8

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	5.0	5.5	13.0	11.0	12.0	13.5	12.0	12.5	11.0	9.5	10.0
2	6.0	5.0	5.5	12.0	9.5	10.5	13.0	12.0	12.5	11.0	9.5	10.5
3	5.5	4.5	5.0	11.0	9.0	10.0	13.0	11.5	12.5	11.5	10.5	11.0
4	5.5	4.5	5.0	12.5	9.0	10.5	12.5	11.5	12.0	11.0	10.5	11.0
5	5.5	4.5	5.0	12.0	8.5	10.0	12.5	10.5	11.5	11.0	10.5	10.5
6	6.5	5.0	5.5	10.5	8.5	9.5	12.5	10.5	11.5	11.0	10.5	10.5
7	6.5	5.5	6.0	12.0	8.5	10.5	11.0	9.0	10.0	10.5	10.0	10.5
8	6.5	5.5	6.0	13.5	9.0	12.0	10.0	8.0	9.0	10.5	10.0	10.0
9	6.5	5.5	6.0	11.0	9.0	10.0	11.0	8.5	9.5	11.0	10.0	10.5
10	6.5	5.5	6.0	13.0	8.5	11.5	12.0	9.0	10.5	10.5	10.0	10.0
11	7.0	5.5	6.0	13.5	11.5	12.5	9.5	8.5	9.0	10.5	9.5	10.0
12	7.0	5.5	6.0	13.5	12.5	13.0	14.0	8.5	10.0	10.5	10.0	10.0
13	6.5	5.5	6.0	13.0	12.5	13.0	15.5	12.5	13.5	10.0	9.5	10.0
14	6.5	5.0	5.5	13.0	10.0	12.0	15.5	10.0	12.0	10.0	9.0	9.5
15	6.5	5.0	5.5	12.5	10.0	10.5	14.5	10.5	13.0	10.5	9.5	10.0
16	6.5	5.0	5.5	13.5	12.5	13.0	16.0	14.0	15.0	10.0	9.5	10.0
17	7.0	5.0	5.5	13.0	11.0	12.0	15.5	14.5	15.0	10.0	9.5	9.5
18	10.5	6.0	9.0	11.5	7.5	9.5	15.0	14.0	15.0	10.0	8.5	9.5
19	10.5	6.0	7.5	8.5	7.5	8.0	15.0	10.5	12.5	9.0	8.5	9.0
20	7.0	5.0	6.0	12.0	6.5	8.5	15.0	11.5	13.5	9.5	8.5	9.0
21	8.5	5.0	6.0	12.0	10.5	11.5	15.0	14.0	14.5	9.5	8.5	9.0
22	9.0	7.5	8.5	13.0	11.5	12.0	14.5	12.0	13.5	9.5	8.5	9.0
23	8.5	7.0	7.5	14.0	11.5	12.5	14.5	13.0	14.0	9.5	9.0	9.5
24	8.0	6.5	7.0	14.0	13.0	13.5	13.5	12.0	13.0	9.5	8.5	9.0
25	8.0	6.5	7.0	13.5	13.0	13.0	13.0	11.5	12.0	9.5	8.5	9.0
26	7.5	6.0	7.0	13.5	12.5	13.0	12.0	9.0	10.5	9.5	8.5	9.0
27	10.0	6.5	8.0	13.5	11.5	12.5	10.0	8.0	9.0	9.0	8.5	9.0
28	10.0	7.0	9.0	13.0	11.0	12.0	10.5	9.0	9.5	9.0	8.5	9.0
29	11.5	7.5	9.0	13.0	11.5	12.5	10.5	10.0	10.5	9.0	8.5	9.0
30	12.5	10.5	11.5	13.0	11.0	12.0	10.5	9.5	10.0	9.0	8.0	8.5
31	---	---	---	13.0	12.5	12.5	11.0	9.5	10.0	---	---	---
MONTH	12.5	4.5	6.6	14.0	6.5	11.5	16.0	8.0	11.8	11.5	8.0	9.7