

SOUTHWEST ALASKA

15297610 RUSSELL CREEK NEAR COLD BAY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982-83, 1996 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August 1996 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water-temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on April 11. A variation of 0.5°C was found within the cross section due to a gravel bar causing a shallow backwater portion of the stream near the left bank. The gravel bar does not effect water temperature at the probe. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 16.0°C, July 14, 2005; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.0°C, July 14; minimum 0.0°C on many days during winter.

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

Date	Time	Stream width, feet (00004)	Location in X-sect. looking downstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
APR							
11...	1620	63.0	2.00	25.63	108	3.8	1.5
11...	1623	63.0	12.0	25.63	108	3.3	1.5
11...	1624	63.0	22.0	25.63	108	3.3	1.5
11...	1625	63.0	32.0	25.63	108	3.3	1.5
11...	1626	63.0	42.0	25.63	108	3.3	1.5
11...	1627	63.0	52.0	25.63	108	3.3	1.5
11...	1628	63.0	62.0	25.63	108	3.3	1.5

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	3.5	4.5	1.5	0.0	1.0	2.5	1.0	1.5	3.5	1.5	2.5
2	5.5	4.5	5.0	3.5	1.0	2.5	2.0	1.0	1.5	2.5	1.5	2.0
3	6.0	4.5	5.0	1.5	0.0	0.5	2.5	1.0	1.5	2.0	0.5	1.5
4	7.0	4.5	5.5	2.5	0.0	1.0	2.0	0.5	1.5	1.5	0.0	0.5
5	6.5	4.0	5.0	4.0	1.0	2.0	2.5	0.5	2.0	1.5	0.0	0.5
6	6.5	4.0	5.0	3.0	0.5	1.5	1.5	0.5	1.0	2.5	0.5	1.5
7	7.5	4.5	6.0	1.5	0.0	0.5	1.5	0.5	1.0	2.0	0.5	1.0
8	9.0	5.5	6.5	1.5	0.0	0.5	0.5	0.0	0.0	1.5	0.0	0.5
9	6.5	4.5	5.5	2.5	0.0	1.5	0.0	0.0	0.0	1.5	0.0	0.5
10	8.0	4.0	6.0	3.0	1.5	2.0	0.5	0.0	0.0	1.5	0.5	1.0
11	6.0	4.5	5.5	3.0	0.5	1.5	1.0	0.0	0.5	2.5	1.0	2.0
12	8.0	4.5	5.5	3.0	2.0	2.5	2.0	0.5	1.0	3.5	2.0	2.5
13	6.5	4.5	5.5	4.5	1.0	2.5	1.0	0.0	0.5	2.5	2.0	2.0
14	7.5	5.0	5.5	4.5	1.5	3.5	2.0	0.0	1.0	3.0	2.0	2.5
15	7.5	5.0	5.5	2.0	0.5	1.0	2.0	2.0	2.0	3.5	3.0	3.0
16	6.5	4.0	5.0	2.5	0.5	1.0	2.0	1.0	1.5	3.5	2.5	3.0
17	7.0	6.0	6.5	2.5	1.0	2.0	1.5	0.5	1.0	3.0	2.5	2.5
18	11.0	6.0	7.5	3.5	1.5	2.5	1.5	0.0	1.0	2.5	1.0	2.0
19	6.0	3.5	4.5	3.5	1.5	2.5	0.0	0.0	0.0	2.5	1.0	1.5
20	5.5	2.5	4.0	3.0	1.5	2.0	0.5	0.0	0.0	2.5	2.0	2.0
21	5.5	3.0	4.0	3.5	2.5	3.0	2.0	0.5	1.5	3.0	1.5	2.0
22	6.0	3.5	4.5	3.0	1.5	2.5	2.0	0.0	1.0	3.0	1.5	2.5
23	6.0	2.5	4.5	2.5	1.5	2.0	0.0	0.0	0.0	2.0	0.5	1.0
24	5.0	2.5	3.5	3.5	1.5	2.5	0.0	0.0	0.0	3.0	1.5	2.0
25	7.5	2.5	5.0	3.5	1.5	2.5	2.0	0.0	1.0	3.0	1.5	2.5
26	5.5	4.0	4.5	4.5	3.0	4.0	2.0	0.0	0.5	3.0	1.0	2.0
27	4.5	3.5	4.0	3.5	1.5	3.0	1.0	0.0	0.5	2.5	0.5	1.5
28	4.0	2.0	3.0	4.5	1.5	3.0	1.0	0.0	0.5	3.0	2.0	2.5
29	3.5	1.5	2.5	3.5	2.5	3.0	1.5	0.0	0.5	3.5	2.5	3.0
30	4.5	1.5	2.5	3.5	2.5	3.0	2.5	1.5	2.0	4.5	3.0	3.5
31	2.5	1.0	1.5	---	---	---	3.0	2.0	2.5	3.0	0.0	0.5
MONTH	11.0	1.0	4.8	4.5	0.0	2.1	3.0	0.0	0.9	4.5	0.0	1.9

SOUTHWEST ALASKA

15297610 RUSSELL CREEK NEAR COLD BAY—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	3.5	0.0	1.5	2.5	0.0	1.0	7.5	3.5	5.0
2	0.0	0.0	0.0	4.0	1.5	2.5	6.0	0.5	2.5	6.5	3.5	5.0
3	0.0	0.0	0.0	3.5	1.0	2.0	5.5	0.5	2.5	10.0	3.5	6.0
4	0.5	0.0	0.0	4.0	1.5	2.5	1.0	0.0	0.0	6.5	4.0	5.0
5	2.0	0.5	1.0	5.0	2.0	3.0	1.5	0.0	0.0	8.0	3.5	5.5
6	3.0	1.5	2.5	3.0	1.5	2.5	4.5	0.0	1.5	8.0	4.0	5.5
7	3.5	1.5	2.0	4.0	2.0	3.0	7.5	0.5	3.0	10.5	2.5	6.0
8	3.0	0.0	1.5	6.0	2.5	4.0	5.5	0.5	3.0	7.0	1.5	4.5
9	0.0	0.0	0.0	4.5	2.0	4.0	4.5	0.0	1.5	6.0	4.0	4.5
10	0.0	0.0	0.0	5.5	1.5	3.0	3.5	0.0	1.0	7.0	4.0	5.0
11	0.5	0.0	0.0	3.5	0.5	2.0	4.5	0.0	1.5	6.5	3.5	5.0
12	2.0	0.0	1.0	6.5	2.0	3.5	7.0	0.0	3.0	8.5	4.0	6.0
13	2.0	0.0	1.0	5.5	2.5	4.0	5.0	1.5	3.0	11.0	4.5	7.0
14	2.5	0.5	1.5	3.5	1.5	3.0	6.5	2.0	3.5	10.0	4.5	6.5
15	3.0	0.5	1.5	5.0	0.5	2.0	8.0	1.0	4.5	8.5	4.0	6.0
16	3.0	1.5	2.0	6.0	1.0	3.0	11.0	0.0	5.0	8.0	4.5	6.0
17	4.0	1.5	2.5	5.5	2.5	3.5	6.0	1.5	4.0	6.5	4.0	5.0
18	2.5	2.0	2.0	6.5	3.5	4.5	6.5	1.5	3.5	6.5	1.5	3.5
19	2.5	2.0	2.0	6.5	2.5	4.0	8.0	0.0	3.5	8.0	2.0	4.5
20	3.5	1.5	2.5	6.0	2.5	4.0	9.0	0.0	4.0	7.0	2.5	4.5
21	3.0	1.0	2.0	2.5	0.0	0.5	5.5	2.5	4.0	8.0	2.5	4.5
22	3.5	1.0	2.0	4.0	0.0	1.5	6.5	1.5	4.0	9.0	3.5	5.5
23	3.0	1.5	2.0	5.5	0.0	2.0	9.0	1.0	5.0	14.0	2.5	8.0
24	3.5	1.0	2.0	6.5	0.0	2.5	7.0	2.5	4.5	9.5	4.5	7.0
25	4.0	1.0	2.0	4.5	0.0	2.0	8.0	3.0	5.0	7.0	4.5	5.0
26	4.5	1.0	2.5	5.5	0.0	1.5	5.0	3.5	4.5	6.0	4.0	5.0
27	4.5	2.0	2.5	5.0	0.0	2.0	8.5	3.5	5.0	8.5	3.5	5.5
28	4.5	0.5	2.0	5.0	0.0	2.5	9.0	3.0	5.5	7.5	4.0	5.5
29	---	---	---	3.5	0.0	1.5	6.0	3.5	4.5	6.5	4.0	5.0
30	---	---	---	0.5	0.0	0.0	5.5	2.5	4.0	8.0	4.0	5.5
31	---	---	---	0.5	0.0	0.0	---	---	---	10.0	4.5	6.5
MONTH	4.5	0.0	1.4	6.5	0.0	2.5	11.0	0.0	3.2	14.0	1.5	5.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.5	4.5	6.0	13.0	5.0	8.0	11.0	5.0	8.5	11.5	6.0	8.0
2	6.5	4.0	5.0	9.5	5.5	7.5	13.0	7.5	10.0	10.5	7.0	8.5
3	9.0	4.5	6.5	9.5	5.5	7.5	13.0	7.5	9.0	10.0	6.5	8.0
4	13.5	3.0	8.0	9.5	5.5	7.5	11.5	7.0	9.0	9.0	6.5	7.5
5	7.5	5.0	6.0	10.5	5.5	7.5	11.5	6.0	8.5	9.5	7.0	8.5
6	7.5	4.5	5.5	12.0	5.5	8.0	14.5	7.0	10.0	9.0	6.5	7.5
7	8.0	4.5	5.5	14.5	6.0	9.5	14.5	7.0	10.0	10.0	6.5	8.0
8	7.0	4.5	5.5	14.5	5.5	9.0	10.5	8.0	9.0	10.5	7.0	8.5
9	9.0	4.0	6.0	12.0	6.0	8.5	10.0	8.0	9.0	10.5	6.5	8.5
10	11.0	5.0	7.0	12.5	5.0	8.0	9.5	8.0	8.5	9.0	5.5	7.5
11	7.0	4.5	5.5	8.0	5.5	6.5	9.5	8.0	8.5	12.0	6.5	9.0
12	7.0	4.5	5.5	11.0	5.5	8.0	13.5	7.0	9.5	10.0	6.0	7.5
13	11.5	4.0	6.5	10.5	5.5	8.0	11.5	7.0	9.0	11.5	5.5	8.0
14	10.5	5.0	7.0	16.0	5.0	9.5	11.0	7.0	8.5	10.5	8.0	9.0
15	10.0	5.0	6.5	9.5	7.0	8.0	10.5	7.5	9.0	10.5	7.0	8.5
16	7.5	5.0	6.0	11.0	6.0	8.0	10.0	7.0	8.5	9.5	6.0	7.0
17	6.0	4.5	5.5	9.0	6.0	7.0	11.5	7.0	8.5	8.0	6.0	6.5
18	7.5	3.5	5.5	9.0	5.5	7.0	8.5	7.5	8.0	7.5	6.0	6.5
19	10.0	4.0	7.0	12.0	6.0	8.5	11.0	7.5	8.5	8.5	5.5	6.5
20	7.0	5.0	6.0	11.0	6.5	8.0	13.5	7.0	9.5	10.0	5.0	7.0
21	8.5	5.0	6.5	9.5	7.0	8.0	11.0	7.5	9.0	11.5	7.0	8.5
22	8.0	5.0	6.5	9.0	5.5	7.0	15.5	8.0	11.0	10.5	7.0	9.5
23	8.5	4.5	6.5	9.0	6.0	7.5	9.5	7.0	8.0	10.5	6.0	7.5
24	9.5	6.0	7.0	12.5	6.0	8.5	11.0	6.5	8.5	9.5	5.0	6.5
25	8.0	5.0	6.5	12.5	5.5	8.5	9.5	7.0	8.5	10.0	3.5	6.0
26	11.5	5.0	8.0	11.0	6.5	8.5	11.5	7.0	9.0	7.5	6.0	7.0
27	14.5	6.0	9.0	11.0	6.0	8.5	13.0	6.5	9.0	10.0	6.0	7.5
28	12.0	5.5	8.5	11.0	7.0	8.5	12.5	7.5	9.5	7.5	5.5	6.5
29	12.0	4.0	7.5	11.5	6.5	8.5	10.5	6.5	8.0	7.0	4.5	5.5
30	10.0	5.0	7.5	10.5	6.0	8.0	10.0	6.5	8.0	7.0	4.0	5.0
31	---	---	---	13.0	6.5	9.0	9.5	6.5	7.5	---	---	---
MONTH	14.5	3.0	6.5	16.0	5.0	8.1	15.5	5.0	8.9	12.0	3.5	7.5