

# 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 July 7 and August 30. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 15.5°C, August 13-14, 2001, July 31 and August 1, 2002, July 8-10 and August 2, 2004; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 15.5°C, July 8-10 and August 2; minimum 0.0°C on many days during winter.

### WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Stream width, feet (00004)	Location in X-sect. looking downstrm 1 bank ft from (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUL							
07...	1700	73.0	3.00	26.04	257	15.0	21.0
07...	1702	73.0	23.0	26.04	257	15.0	21.0
07...	1704	73.0	43.0	26.04	257	15.0	21.0
07...	1706	73.0	63.0	26.04	257	15.0	21.0
07...	1708	73.0	73.0	26.04	257	15.0	21.0
AUG							
30...	1745	71.0	15.0	25.88	205	9.5	12.0
30...	1747	71.0	30.0	25.88	205	9.5	12.0
30...	1749	71.0	45.0	25.88	205	9.5	12.0
30...	1751	71.0	60.0	25.88	205	9.5	12.0

### WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	6.0	7.0	8.0	6.0	6.5	0.0	0.0	0.0	2.5	0.0	1.0
2	9.5	5.0	7.0	7.0	6.0	6.5	0.0	0.0	0.0	1.5	0.0	0.5
3	9.0	5.0	7.0	6.0	4.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
4	8.0	5.5	6.5	6.5	4.0	5.0	0.0	0.0	0.0	1.5	0.0	0.5
5	7.0	5.5	6.5	5.5	3.5	4.5	0.0	0.0	0.0	1.5	0.5	1.0
6	5.5	4.0	5.0	5.0	3.5	4.5	0.0	0.0	0.0	1.5	0.0	0.5
7	5.5	4.0	4.5	7.0	3.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
8	6.5	3.5	4.5	7.0	3.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
9	5.0	3.0	4.0	5.0	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
10	7.0	3.5	4.5	4.0	2.5	3.0	1.0	0.0	0.5	0.0	0.0	0.0
11	6.0	3.5	4.5	3.5	1.0	2.5	1.5	0.5	1.0	0.0	0.0	0.0
12	7.0	4.5	5.5	3.0	1.5	2.0	1.5	0.0	1.0	0.0	0.0	0.0
13	7.5	4.5	5.5	3.0	0.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
14	8.0	4.0	5.5	1.5	0.0	1.0	1.5	0.0	0.5	0.0	0.0	0.0
15	8.0	5.0	6.5	1.0	0.0	0.5	1.0	0.0	0.5	0.0	0.0	0.0
16	7.5	4.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	5.5	3.0	4.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	3.5	2.0	2.5	3.5	1.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
19	3.0	1.5	2.0	4.0	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
20	3.0	1.5	2.0	7.0	3.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
21	3.0	0.5	1.5	5.0	1.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
22	4.0	1.5	2.5	3.0	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
23	4.5	2.0	3.0	5.0	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
24	6.5	2.0	4.0	3.5	1.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
25	4.5	2.5	4.0	1.5	0.0	1.0	0.5	0.0	0.0	0.5	0.0	0.0
26	2.5	1.0	2.0	0.5	0.0	0.0	1.0	0.5	0.5	1.5	0.5	1.0
27	5.0	2.0	3.5	3.0	0.5	2.0	1.5	0.0	0.5	2.0	0.0	1.0
28	4.5	1.5	3.0	2.5	0.5	1.0	1.5	0.0	1.0	2.0	0.0	1.0
29	6.5	4.5	5.5	1.5	0.0	0.5	1.0	0.0	0.5	2.0	0.5	1.0
30	6.0	4.5	5.0	0.0	0.0	0.0	1.5	0.0	0.5	2.5	0.5	1.5
31	7.0	4.5	6.0	---	---	---	1.5	0.0	1.0	2.0	0.5	1.0
MONTH	9.5	0.5	4.5	8.0	0.0	2.8	1.5	0.0	0.2	2.5	0.0	0.3

# SOUTHWEST ALASKA

## 15297610 RUSSELL CREEK NEAR COLD BAY—Continued

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.0	0.5	1.0	2.5	1.0	2.0	0.0	0.0	0.0	10.0	3.0	6.0
2	2.5	0.5	1.5	3.5	0.5	1.5	0.0	0.0	0.0	8.5	3.0	6.0
3	2.5	1.5	2.0	4.0	0.5	1.5	2.5	0.0	0.5	11.0	3.0	6.0
4	1.5	0.0	1.0	3.5	0.0	1.5	3.5	0.0	1.0	9.0	2.5	5.5
5	0.0	0.0	0.0	4.5	0.5	2.0	5.5	0.0	2.0	9.5	3.5	5.5
6	0.0	0.0	0.0	2.5	0.0	1.0	5.5	1.5	3.5	9.0	3.0	4.5
7	1.0	0.0	0.5	1.0	0.0	0.0	5.5	1.5	3.5	7.0	3.0	4.0
8	1.5	0.5	1.0	0.0	0.0	0.0	7.0	1.0	3.5	7.5	2.0	4.5
9	2.5	0.5	1.5	2.5	0.0	1.0	9.0	1.0	4.0	4.5	2.5	3.5
10	2.0	0.0	0.5	3.5	0.5	1.5	6.5	0.5	3.0	5.0	3.0	4.0
11	2.5	0.0	1.0	4.5	0.0	2.0	8.0	0.0	3.5	7.5	3.0	5.0
12	2.0	1.0	1.5	4.5	0.5	2.0	7.5	1.5	4.0	7.0	3.0	5.0
13	2.5	1.0	1.5	4.5	0.0	1.5	5.5	0.5	3.0	10.0	3.5	6.0
14	2.5	1.0	1.5	5.5	0.0	2.0	6.5	2.5	4.0	7.0	3.5	5.0
15	3.5	1.0	1.5	5.0	0.0	2.0	7.0	1.5	3.5	5.5	3.5	4.5
16	4.0	0.0	1.5	3.0	0.0	1.5	8.0	1.0	4.0	10.0	3.0	5.5
17	3.0	0.0	1.0	0.5	0.0	0.0	7.5	1.0	3.5	10.5	3.5	6.0
18	3.0	0.5	1.5	0.5	0.0	0.0	5.0	2.5	3.5	7.0	4.0	5.5
19	3.5	1.5	2.0	0.5	0.0	0.0	6.0	1.0	3.5	5.5	4.5	5.0
20	3.5	2.0	2.5	2.0	0.0	0.5	5.0	2.5	3.5	7.0	4.0	5.0
21	3.5	1.0	2.0	4.0	0.0	1.0	7.0	2.0	4.0	8.0	4.0	5.5
22	3.0	0.0	1.5	5.0	0.0	1.5	7.0	2.5	4.0	5.5	4.0	5.0
23	3.0	0.0	1.5	6.5	0.0	2.5	7.0	2.5	4.5	5.0	4.0	4.5
24	3.5	0.0	1.0	7.0	1.0	3.0	7.5	2.5	4.5	5.5	4.0	4.5
25	1.0	0.0	0.5	6.5	1.5	3.0	9.5	1.5	4.5	6.0	3.5	4.5
26	4.5	1.0	2.0	5.0	0.0	2.0	5.0	2.5	3.5	9.5	3.5	6.0
27	4.0	0.5	2.0	3.0	0.0	0.5	8.5	1.5	4.5	6.5	4.5	5.5
28	3.0	1.0	2.0	0.0	0.0	0.0	6.0	2.0	3.5	6.0	4.0	5.0
29	3.5	1.0	2.0	0.5	0.0	0.0	4.5	1.0	3.0	7.0	3.0	5.0
30	---	---	---	0.5	0.0	0.0	5.0	3.0	4.0	7.5	3.5	5.0
31	---	---	---	2.0	0.0	0.5	---	---	---	8.0	3.5	5.5
MONTH	4.5	0.0	1.3	7.0	0.0	1.2	9.5	0.0	3.2	11.0	2.0	5.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.0	4.5	5.0	8.0	5.5	6.5	13.5	7.0	9.5	10.5	8.0	9.0
2	8.5	4.0	6.0	9.0	5.0	7.0	15.5	7.5	10.5	11.5	6.5	8.5
3	8.0	4.5	6.0	9.5	5.5	7.5	11.0	8.0	9.0	12.0	7.5	9.0
4	9.0	4.5	6.5	11.5	5.5	8.0	9.0	6.5	7.5	10.0	7.0	8.0
5	11.5	4.5	7.0	11.5	5.5	8.0	8.5	7.5	8.0	11.0	6.5	8.5
6	6.5	4.5	5.5	14.0	5.0	8.5	13.5	7.0	9.0	10.0	7.5	8.5
7	8.5	3.5	6.0	15.0	5.0	9.0	14.5	6.5	10.0	11.0	6.0	8.5
8	7.5	4.5	5.5	15.5	5.5	9.5	10.5	8.0	9.0	10.0	6.0	8.0
9	9.5	4.0	6.5	15.5	5.0	9.5	15.0	7.5	10.5	10.0	6.5	8.0
10	8.5	4.0	6.5	15.5	6.0	10.0	10.5	7.5	9.0	8.5	6.0	7.0
11	8.0	5.0	6.0	14.5	5.5	9.5	11.0	7.0	9.0	10.0	6.5	8.0
12	12.0	4.0	7.5	10.5	7.5	8.5	10.5	9.0	9.5	12.5	7.0	8.5
13	10.0	4.0	6.5	10.0	5.5	7.5	10.5	9.0	9.5	10.5	5.5	7.5
14	9.5	4.5	6.5	9.5	6.0	7.5	10.0	8.5	9.5	8.5	3.5	6.0
15	8.5	5.5	6.5	12.0	6.0	8.0	10.0	8.5	9.0	10.5	6.0	7.5
16	9.0	5.0	7.0	10.0	7.0	8.0	10.5	8.0	9.0	10.5	5.0	7.5
17	10.0	5.0	7.0	8.5	5.5	7.0	14.0	7.0	9.5	9.5	6.5	8.0
18	7.0	5.0	6.0	8.5	6.0	7.0	11.0	8.5	9.5	12.0	8.5	9.5
19	6.0	4.5	5.5	8.5	6.0	7.5	12.0	7.5	9.5	10.0	7.0	8.5
20	8.0	4.5	5.5	9.5	6.0	7.5	14.5	7.0	10.0	9.0	6.5	7.5
21	7.5	5.0	6.0	11.5	6.0	8.0	10.0	8.5	9.0	9.0	6.0	7.5
22	9.5	5.5	7.0	14.5	5.5	9.0	9.5	7.5	8.5	9.0	6.0	7.0
23	7.5	4.5	6.0	10.0	6.5	8.0	10.5	7.5	8.5	9.0	5.0	6.5
24	9.5	5.0	6.5	8.5	7.5	8.0	9.5	7.0	8.5	9.5	5.5	7.0
25	9.0	5.0	6.5	9.0	7.0	8.0	10.0	7.0	8.5	7.0	4.5	6.0
26	12.0	5.0	7.5	9.0	6.0	7.5	10.0	7.0	8.0	8.5	4.0	5.5
27	13.5	5.5	8.5	8.5	6.5	7.0	11.0	7.5	9.0	8.0	5.0	6.5
28	10.5	5.5	7.0	9.5	6.0	7.5	11.0	7.0	8.5	8.0	6.0	7.0
29	9.5	5.0	7.0	9.0	6.5	7.5	10.0	7.0	8.5	8.0	6.5	7.5
30	8.0	5.5	6.5	13.0	6.5	9.0	9.0	6.5	8.0	6.5	4.0	5.5
31	---	---	---	13.5	6.0	9.0	10.5	8.5	9.0	---	---	---
MONTH	13.5	3.5	6.4	15.5	5.0	8.1	15.5	6.5	9.0	12.5	3.5	7.6