

# SOUTH-CENTRAL ALASKA

15272380 TWENTYMILE RIVER BELOW GLACIER RIVER NEAR PORTAGE

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2002 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 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 the stream average by cross section on April 20. No variation more than 0.1°C was found within the cross section. The variation found between mean stream temperature and sensor temperature was less than 0.2°C. Heavy shore ice occurs near the gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 11.5°C, July 15, 2005; Minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 11.5°C, July 15; 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)	Sample location, cross section ft from lt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type, code (84164)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
APR									
20...	1413	130	13.0	15.49	367	10	8010	3.7	8.0
20...	1415	130	29.0	15.49	367	10	8010	3.7	8.0
20...	1417	130	65.0	15.49	367	10	8010	3.7	8.0
20...	1419	130	91.0	15.49	367	10	8010	3.6	8.0
20...	1421	130	117	15.49	367	10	8010	3.6	8.0

### 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	5.5	4.0	4.5	2.0	0.0	1.0	2.0	1.5	2.0	0.0	0.0	0.0
2	5.0	3.5	4.5	0.5	0.0	0.5	1.5	1.5	1.5	0.5	0.0	0.0
3	5.0	4.5	5.0	1.5	0.0	1.0	1.5	0.0	1.0	1.0	0.5	0.5
4	5.0	4.5	4.5	1.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5
5	5.0	4.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
6	5.5	4.0	4.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
7	5.5	4.0	4.5	0.5	0.0	0.0	1.0	0.5	0.5	0.0	0.0	0.0
8	5.0	4.0	4.5	1.0	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0
9	5.0	4.0	4.5	1.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
10	5.0	4.0	4.5	1.0	0.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
11	5.0	4.0	4.5	1.5	1.0	1.0	0.5	0.5	0.5	0.0	0.0	0.0
12	5.0	4.5	4.5	1.5	1.5	1.5	0.5	0.5	0.5	0.0	0.0	0.0
13	5.0	4.0	4.5	2.0	1.5	1.5	1.0	0.5	1.0	0.0	0.0	0.0
14	5.5	4.0	4.5	1.5	0.5	1.0	0.5	0.5	0.5	0.0	0.0	0.0
15	4.5	3.5	4.0	2.0	0.5	1.0	1.5	0.5	1.0	0.0	0.0	0.0
16	4.5	3.5	4.0	2.0	1.5	1.5	1.5	1.0	1.0	0.0	0.0	0.0
17	4.0	2.5	3.0	1.5	0.5	1.0	1.5	1.0	1.5	0.0	0.0	0.0
18	3.5	2.0	3.0	1.5	1.5	1.5	1.0	1.0	1.0	0.0	0.0	0.0
19	4.0	3.5	3.5	2.0	1.0	1.5	1.0	1.0	1.0	0.0	0.0	0.0
20	4.0	3.0	3.5	1.5	1.0	1.5	1.0	0.5	1.0	0.0	0.0	0.0
21	4.0	3.0	3.5	1.5	1.5	1.5	1.0	0.5	1.0	0.0	0.0	0.0
22	3.0	2.0	2.5	2.0	1.5	1.5	1.5	1.0	1.5	0.0	0.0	0.0
23	3.0	2.5	3.0	2.0	2.0	2.0	1.5	0.5	1.0	0.5	0.0	0.0
24	3.5	3.0	3.0	2.0	1.5	2.0	0.5	0.0	0.0	0.5	0.0	0.0
25	3.0	1.5	2.5	1.5	0.5	1.5	0.0	0.0	0.0	0.5	0.0	0.5
26	4.0	2.5	3.0	1.5	1.0	1.0	0.0	0.0	0.0	0.5	0.0	0.5
27	3.5	2.5	3.0	2.5	1.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0
28	3.5	3.0	3.5	2.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
29	3.5	3.0	3.0	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
30	3.0	2.0	2.5	1.5	1.0	1.5	0.0	0.0	0.0	0.5	0.0	0.5
31	2.5	1.5	2.0	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0
MONTH	5.5	1.5	3.7	2.5	0.0	1.1	2.0	0.0	0.6	1.0	0.0	0.1

# SOUTH-CENTRAL ALASKA

## 15272380 TWENTYMILE RIVER BELOW GLACIER RIVER NEAR PORTAGE—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	0.0	0.0	0.0	1.0	0.0	0.5	5.0	0.5	2.5	5.0	2.5	3.5
2	0.0	0.0	0.0	1.0	0.5	0.5	3.5	0.0	1.5	7.0	2.0	4.0
3	0.0	0.0	0.0	0.5	0.0	0.5	3.5	0.5	1.5	7.5	2.0	4.5
4	0.0	0.0	0.0	1.5	0.5	1.0	2.5	1.0	1.5	6.5	3.0	4.5
5	0.0	0.0	0.0	1.0	0.5	1.0	3.0	1.5	2.0	5.5	3.0	4.0
6	0.0	0.0	0.0	1.0	0.5	0.5	2.5	1.0	1.5	6.0	3.5	4.5
7	0.0	0.0	0.0	1.0	0.5	1.0	3.0	0.5	1.5	8.0	3.0	5.5
8	0.0	0.0	0.0	0.5	0.5	0.5	3.0	1.0	2.0	8.5	3.0	5.5
9	0.0	0.0	0.0	1.0	0.5	0.5	5.0	1.0	3.0	8.5	3.0	5.5
10	0.0	0.0	0.0	0.5	0.5	0.5	4.5	1.0	2.5	8.5	3.0	5.5
11	0.0	0.0	0.0	1.0	0.5	0.5	6.0	1.0	3.0	8.0	3.0	5.5
12	0.0	0.0	0.0	1.5	0.5	1.0	6.0	0.5	3.0	5.5	4.5	5.0
13	0.0	0.0	0.0	1.5	1.0	1.0	6.5	0.5	3.0	5.0	4.0	4.5
14	0.0	0.0	0.0	3.0	0.5	1.5	5.0	1.0	3.0	6.5	3.5	4.5
15	0.0	0.0	0.0	2.5	0.5	1.5	6.5	1.0	3.5	5.5	4.0	4.5
16	0.0	0.0	0.0	3.5	0.5	1.5	6.5	1.0	3.5	7.5	3.5	5.0
17	0.0	0.0	0.0	3.0	0.0	1.5	7.0	1.0	3.5	6.5	4.0	5.0
18	0.0	0.0	0.0	3.5	0.0	1.5	4.0	2.0	2.5	8.5	3.0	5.5
19	0.0	0.0	0.0	3.0	0.5	1.5	4.0	2.0	2.5	8.5	3.5	5.5
20	0.5	0.0	0.0	2.0	0.5	1.0	4.5	2.5	3.5	7.5	4.0	5.5
21	0.5	0.0	0.5	2.5	0.5	1.5	5.0	2.0	3.5	7.5	4.5	5.5
22	0.5	0.5	0.5	1.0	0.0	0.5	3.0	2.0	2.5	7.0	4.0	5.5
23	1.0	0.5	0.5	4.0	0.5	2.0	5.0	2.0	3.0	8.5	3.5	6.0
24	1.0	0.0	0.5	3.0	0.0	1.5	5.5	2.0	3.5	7.0	4.5	5.5
25	1.0	0.5	0.5	2.0	0.0	1.0	6.5	1.0	3.5	8.0	4.0	6.0
26	1.0	0.0	0.5	4.0	1.0	2.5	6.5	1.5	3.5	6.0	4.5	5.5
27	1.0	0.0	0.5	2.5	0.5	1.5	6.5	1.5	3.5	6.0	4.5	5.0
28	0.5	0.0	0.0	2.0	0.0	1.0	7.0	1.5	4.0	6.5	4.5	5.0
29	---	---	---	3.0	0.0	1.5	7.0	2.0	4.0	6.5	4.0	5.0
30	---	---	---	3.0	0.0	1.5	7.5	2.0	4.0	6.0	4.0	5.5
31	---	---	---	4.5	1.0	2.5	---	---	---	8.0	4.5	6.0
MONTH	1.0	0.0	0.1	4.5	0.0	1.2	7.5	0.0	2.9	8.5	2.0	5.1

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	4.5	6.0	7.5	6.0	7.0	6.5	5.5	6.0	8.5	5.5	6.5
2	9.0	4.0	6.5	9.0	6.0	7.0	7.0	5.5	6.0	7.5	4.5	6.0
3	9.5	4.0	6.5	8.5	6.0	7.0	6.5	5.0	6.0	6.5	5.5	6.0
4	10.0	4.0	6.5	10.0	6.0	7.5	7.0	5.0	6.0	6.0	5.0	5.5
5	9.0	4.0	6.5	10.5	6.0	7.5	9.0	5.5	6.5	6.0	4.5	5.5
6	9.0	4.5	6.5	11.0	5.5	8.0	9.5	5.5	7.0	6.5	5.0	5.5
7	6.5	5.0	5.5	10.5	6.0	8.0	9.5	5.5	7.0	7.5	5.0	6.0
8	6.5	5.0	5.5	11.0	6.0	8.0	9.5	5.5	7.0	7.5	5.0	6.0
9	5.5	4.5	5.0	10.5	6.0	8.0	10.0	5.5	7.5	6.5	5.5	6.0
10	8.0	4.5	6.0	11.0	6.5	8.5	10.0	5.5	7.5	8.0	5.5	6.5
11	6.5	5.0	6.0	11.0	6.5	8.5	9.5	6.0	7.5	8.0	5.0	6.0
12	8.5	4.5	6.5	8.5	6.5	7.5	9.5	5.5	7.5	6.5	5.5	6.0
13	9.5	4.5	7.0	7.5	6.0	6.5	9.5	5.5	7.0	8.0	5.0	6.0
14	10.0	4.5	7.0	9.5	5.5	7.5	9.0	5.5	7.0	7.5	5.0	6.0
15	10.0	5.0	7.5	11.5	6.0	8.0	9.0	6.0	7.0	6.0	5.5	5.5
16	10.5	5.5	7.5	8.5	6.0	7.0	8.5	6.0	7.0	5.5	5.0	5.5
17	11.0	5.0	7.5	9.0	5.5	7.0	7.0	6.0	6.5	6.0	4.5	5.5
18	8.5	6.0	6.5	8.5	6.0	7.5	7.0	5.5	6.0	6.5	5.0	5.5
19	8.0	5.0	6.5	9.0	6.0	7.5	7.5	5.5	6.5	7.0	4.5	5.5
20	9.0	5.0	6.5	10.0	6.0	7.5	8.5	6.0	7.0	7.0	4.5	5.5
21	10.0	4.5	7.0	10.5	6.0	8.0	6.5	5.5	6.0	6.5	4.0	5.5
22	7.5	5.5	6.5	10.0	5.5	7.5	8.0	5.5	6.5	6.0	5.0	5.5
23	9.5	5.0	6.5	10.5	6.0	8.0	7.0	6.0	6.5	6.0	5.0	5.5
24	10.0	4.5	7.0	8.0	6.5	7.5	8.0	5.5	6.5	6.0	5.0	5.5
25	10.0	5.5	7.5	7.0	6.0	6.5	7.5	5.5	6.5	6.0	5.0	5.5
26	10.0	5.5	7.5	7.5	5.5	6.5	8.5	5.0	6.5	6.0	4.5	5.0
27	10.0	5.5	7.5	7.5	6.0	7.0	8.5	5.0	6.5	5.5	5.0	5.0
28	10.5	5.5	7.5	7.0	5.5	6.5	7.0	5.0	6.0	6.0	4.5	5.0
29	10.5	6.0	8.0	6.0	5.5	6.0	7.5	5.5	6.0	6.5	4.5	5.0
30	9.5	6.0	7.5	6.5	5.5	6.0	7.5	5.0	6.0	6.0	4.5	5.0
31	---	---	---	7.0	5.5	6.0	7.0	5.0	6.0	---	---	---
MONTH	11.0	4.0	6.7	11.5	5.5	7.3	10.0	5.0	6.6	8.5	4.0	5.6