

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. Probe malfunction caused missing record July 18, 22-23, and 25-30, and September 13-24. Temperature at the sensor was compared with the average for the stream by cross section on July 30. No variation more than 0.1°C was found within the cross section. No variation more than 0.3°C was found between mean stream temperature and sensor temperature. Heavy shore ice occurs near the gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 10.0°C, July 16, 2004; Minimum, 0.0°C on many days during winter.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 10.0°C, July 16; 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)	Sample location, cross section ft from rt 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)
JUL									
30...	1332	208	20.0	19.71	3410	10	8010	7.0	9.6
30...	1334	208	60.0	19.71	3410	10	8010	7.0	9.6
30...	1336	208	100.0	19.71	3410	10	8010	7.1	9.6
30...	1338	208	140.0	19.71	3410	10	8010	7.1	9.6
30...	1340	208	180.0	19.71	3410	10	8010	7.0	9.6

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	4.5	5.0	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
2	6.0	5.0	5.0	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
3	6.5	5.0	6.0	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
4	5.5	4.5	5.0	3.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
5	5.0	4.5	5.0	3.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
6	6.0	5.0	5.5	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
7	5.5	4.5	5.0	4.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
8	5.5	4.0	5.0	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
9	5.5	4.5	5.0	3.0	2.5	2.5	0.5	0.0	0.0	0.0	0.0	0.0
10	5.5	4.0	4.5	2.5	2.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0
11	5.0	4.0	4.5	2.5	1.5	2.0	0.5	0.0	0.5	0.0	0.0	0.0
12	4.5	3.5	4.0	2.5	1.5	2.0	0.5	0.5	0.5	0.0	0.0	0.0
13	4.5	3.5	4.0	1.5	1.0	1.5	0.5	0.5	0.5	0.0	0.0	0.0
14	4.5	4.0	4.5	1.0	0.5	1.0	0.5	0.0	0.5	0.0	0.0	0.0
15	5.0	3.5	4.5	0.5	0.0	0.0	1.0	0.5	0.5	0.0	0.0	0.0
16	4.0	2.5	3.0	0.0	0.0	0.0	1.0	0.5	0.5	0.0	0.0	0.0
17	3.5	2.0	3.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
18	4.0	3.0	3.5	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
19	4.5	3.5	4.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
20	4.5	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	4.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	4.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	4.5	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	4.5	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	3.0	2.0	2.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	6.5	2.0	4.1	4.0	0.0	1.3	1.0	0.0	0.1	0.0	0.0	0.0

SOUTH-CENTRAL ALASKA

15272380 TWENTYMILE RIVER BELOW GRANITE RIVER NEAR PORTAGE—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	0.0	0.0	0.0	1.5	0.5	1.0	0.5	0.0	0.0	3.5	2.0	2.5
2	0.0	0.0	0.0	1.0	0.5	1.0	0.0	0.0	0.0	4.5	1.5	2.5
3	0.0	0.0	0.0	2.0	0.5	1.0	1.0	0.0	0.5	6.0	1.0	3.5
4	0.0	0.0	0.0	1.0	0.0	0.5	1.0	0.5	0.5	6.5	1.5	3.5
5	0.0	0.0	0.0	2.0	0.0	0.5	1.5	0.5	1.0	6.0	1.5	3.5
6	0.0	0.0	0.0	0.5	0.0	0.0	1.0	0.5	1.0	6.0	1.5	3.5
7	0.0	0.0	0.0	0.5	0.0	0.0	1.0	0.5	0.5	6.5	1.5	3.5
8	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.5	0.5	6.5	2.0	3.5
9	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.0	6.5	2.0	4.0
10	0.0	0.0	0.0	0.5	0.0	0.0	3.5	0.5	1.5	6.0	2.5	4.0
11	0.0	0.0	0.0	1.5	0.0	0.5	3.5	0.0	1.5	6.0	3.0	4.0
12	0.0	0.0	0.0	1.0	0.0	0.5	4.0	0.0	1.5	6.5	3.0	4.5
13	0.5	0.0	0.5	2.0	0.5	1.0	4.0	0.5	2.0	7.5	2.5	4.5
14	0.5	0.0	0.5	1.5	0.0	0.5	5.0	1.0	2.5	7.0	2.5	4.5
15	0.5	0.0	0.0	2.5	0.5	1.0	5.0	0.5	2.5	6.0	3.5	4.5
16	0.0	0.0	0.0	1.5	0.0	0.5	3.0	1.5	2.0	5.0	3.5	4.0
17	0.0	0.0	0.0	1.0	0.0	0.5	4.5	1.0	2.5	5.0	3.5	4.0
18	0.0	0.0	0.0	0.5	0.0	0.0	4.0	1.5	2.5	7.0	3.0	5.0
19	0.5	0.0	0.5	0.5	0.0	0.0	4.5	1.0	2.5	8.0	3.5	5.5
20	0.5	0.5	0.5	0.0	0.0	0.0	5.5	1.0	3.0	8.0	3.0	5.5
21	0.5	0.5	0.5	0.0	0.0	0.0	4.5	0.5	2.5	8.0	3.0	5.0
22	0.5	0.5	0.5	0.5	0.0	0.0	3.5	1.5	2.5	7.5	3.5	5.5
23	0.5	0.5	0.5	1.0	0.0	0.5	4.5	1.0	2.5	5.0	4.0	4.5
24	0.5	0.5	0.5	1.5	0.0	0.5	4.0	1.5	2.5	6.0	4.0	4.5
25	0.5	0.0	0.5	2.0	0.0	1.0	4.0	1.5	2.5	6.5	4.0	5.0
26	0.5	0.0	0.0	1.5	0.0	1.0	5.5	0.5	3.0	6.5	4.0	5.0
27	1.0	0.5	0.5	1.5	0.0	0.5	3.0	2.0	2.0	5.0	4.0	4.5
28	1.0	0.5	0.5	1.5	0.0	0.5	3.0	1.5	2.5	4.5	4.0	4.5
29	1.0	0.0	0.5	2.5	0.0	1.0	5.0	2.0	3.0	7.5	4.0	5.0
30	---	---	---	1.5	0.0	0.0	6.0	1.5	3.5	8.5	3.5	6.0
31	---	---	---	0.0	0.0	0.0	---	---	---	6.5	4.5	5.0
MONTH	1.0	0.0	0.2	2.5	0.0	0.4	6.0	0.0	1.9	8.5	1.0	4.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	8.5	3.5	5.5	7.5	4.5	6.0	7.5	5.0	6.5	6.5	5.5	6.0
2	6.0	4.5	5.0	7.0	5.0	6.0	9.0	5.0	6.5	6.0	5.0	5.5
3	8.0	4.0	5.5	7.0	5.0	6.0	8.5	5.0	6.5	6.5	5.0	5.5
4	8.5	4.0	6.0	7.5	5.0	6.0	8.5	5.5	7.0	7.5	4.0	5.5
5	6.5	4.5	5.5	6.0	5.0	5.5	8.5	5.5	6.5	7.5	4.0	5.5
6	7.5	4.5	5.5	8.5	4.5	6.5	9.0	5.0	6.5	8.0	4.5	6.0
7	8.5	4.0	6.0	9.0	5.0	7.0	9.0	5.0	6.5	8.0	4.0	5.5
8	6.0	4.5	5.5	8.5	5.0	6.5	9.0	5.5	7.0	7.5	4.0	5.5
9	7.0	4.5	5.5	9.0	5.0	6.5	7.5	5.0	6.5	8.0	4.0	5.5
10	6.5	4.0	5.5	9.0	5.0	7.0	8.5	5.0	6.5	7.0	4.5	5.5
11	6.5	4.5	5.5	9.0	5.0	7.0	9.0	5.5	7.0	7.5	4.0	5.5
12	8.0	4.0	6.0	9.5	5.0	7.0	8.5	5.5	6.5	8.0	4.5	5.5
13	8.5	4.5	6.0	9.0	5.5	7.0	8.5	5.0	6.5	7.0	4.5	5.5
14	8.0	4.5	6.5	9.0	5.5	7.0	8.5	5.0	6.5	---	---	---
15	6.0	5.0	5.5	9.0	6.0	7.0	7.5	5.0	6.0	---	---	---
16	6.0	4.5	5.0	10.0	5.5	7.0	8.5	5.0	6.5	---	---	---
17	6.0	3.5	5.0	7.5	4.5	6.5	8.0	5.0	6.5	---	---	---
18	8.0	4.5	6.0	---	5.5	---	8.0	5.0	6.5	---	---	---
19	8.0	4.0	6.0	8.0	5.5	6.5	7.0	5.5	6.0	---	---	---
20	8.5	4.5	6.5	7.5	5.5	7.0	7.5	5.5	6.0	---	---	---
21	8.5	4.5	6.0	8.0	5.5	6.0	8.0	5.0	6.0	---	---	---
22	8.5	4.5	6.5	---	---	---	8.0	5.0	6.5	---	---	---
23	9.0	4.5	6.5	---	4.5	6.0	8.5	5.0	6.5	---	---	---
24	9.0	5.0	6.5	9.0	5.5	7.0	8.0	5.0	6.0	5.5	---	---
25	9.0	5.0	6.5	---	---	---	8.0	5.0	6.0	4.5	4.0	4.0
26	9.0	5.0	7.0	5.5	---	---	6.5	5.5	6.0	6.0	4.5	5.0
27	8.5	5.5	7.0	---	---	---	6.0	5.0	5.5	5.0	4.0	4.5
28	7.0	5.0	6.0	---	---	---	6.0	5.0	5.5	4.0	3.5	4.0
29	6.5	5.0	5.5	---	---	---	7.5	4.5	6.0	4.5	4.0	4.0
30	6.5	5.0	5.5	8.0	---	---	8.0	4.5	6.0	5.0	4.0	4.5
31	---	---	---	9.0	5.0	7.0	8.0	5.0	6.0	---	---	---
MONTH	9.0	3.5	---	---	---	---	9.0	4.5	6.3	---	---	---