

SOUTH-CENTRAL ALASKA

15297580 ALEC RIVER NEAR CHIGNIK

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2004 to September 2005 (discontinued).

PERIOD OF DAILY RECORD.--May 2004 to September 2005 (discontinued).

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

REMARKS.--Probe installed on May 20, 2004. 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 September 15, 2004 and May 4, 2005. Variations found in the cross-sections were at or less than 0.5°C. No variation more than 0.3°C was found between mean stream temperature and sensor temperature for both dates.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 15.5°C, August 12, 2004, August 10-11, 2005; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR WATER YEAR 2004.--

WATER TEMPERATURE: Maximum, 15.5°C, August 12; minimum recorded 4.5°C, May 20, 23-31, June 4-5.

EXTREMES FOR 2005 WATER YEAR.--

WATER TEMPERATURE: Maximum, 15.5°C, August 10-11; minimum 0.0°C on many days during the winter.

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

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
SEP							
15...	1650	160	15.0	9.17	365	8.5	8.8
15...	1652	160	45.0	9.17	365	8.5	8.8
15...	1654	160	80.0	9.17	365	8.5	8.8
15...	1656	160	115	9.17	365	8.6	8.8
15...	1658	160	145	9.17	365	9.0	8.8

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

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
MAY							
04...	1549	180	18.0	9.34	536	7.2	9.5
04...	1550	180	54.0	9.34	536	7.1	9.5
04...	1551	180	90.0	9.34	536	7.1	9.5
04...	1552	180	126	9.34	536	7.1	9.5
04...	1553	180	162	9.34	536	7.4	9.5

SOUTH-CENTRAL ALASKA

15297580 ALEC RIVER NEAR CHIGNIK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	9.0	4.5	6.5
21	---	---	---	---	---	---	---	---	---	9.5	5.0	7.0
22	---	---	---	---	---	---	---	---	---	9.0	5.0	6.5
23	---	---	---	---	---	---	---	---	---	8.0	4.5	6.0
24	---	---	---	---	---	---	---	---	---	8.5	4.5	6.5
25	---	---	---	---	---	---	---	---	---	7.5	4.5	5.5
26	---	---	---	---	---	---	---	---	---	10.0	4.5	7.0
27	---	---	---	---	---	---	---	---	---	10.0	4.5	6.5
28	---	---	---	---	---	---	---	---	---	7.0	4.5	6.0
29	---	---	---	---	---	---	---	---	---	7.0	4.5	5.5
30	---	---	---	---	---	---	---	---	---	8.0	4.5	6.0
31	---	---	---	---	---	---	---	---	---	9.5	4.5	7.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	5.0	7.0	9.5	7.0	8.0	12.5	9.0	10.5	11.0	9.0	10.5
2	8.0	5.5	6.0	8.5	6.5	7.5	14.0	9.0	11.5	11.5	9.5	10.5
3	6.0	5.0	5.5	8.5	6.0	7.5	14.0	9.5	11.0	11.0	9.5	10.0
4	7.5	4.5	5.5	10.5	7.0	8.0	12.5	9.0	10.5	10.5	9.0	10.0
5	9.0	4.5	6.5	10.0	7.5	8.5	12.0	9.0	10.0	10.5	8.5	10.0
6	9.0	5.5	7.5	11.5	7.0	9.0	12.5	8.5	10.0	10.5	9.0	10.0
7	9.5	5.0	7.0	12.5	7.5	10.0	13.5	9.0	11.5	11.0	9.5	10.0
8	9.0	5.0	6.5	13.5	7.5	10.5	14.5	10.5	13.0	10.0	7.5	9.0
9	8.5	5.0	6.5	14.5	8.0	11.5	14.0	10.0	12.0	10.5	8.5	9.5
10	8.5	5.0	7.0	15.0	8.0	12.0	14.5	10.5	12.5	10.5	8.5	9.5
11	8.0	5.0	6.5	15.0	8.5	12.0	14.0	11.5	13.0	10.0	9.0	9.5
12	8.0	5.0	6.5	15.0	9.5	11.0	15.5	11.5	13.5	10.5	8.0	9.5
13	8.5	5.5	7.0	10.5	8.5	9.5	14.0	11.5	12.5	9.5	6.5	8.5
14	8.5	5.5	7.0	10.5	8.0	9.0	15.0	10.5	12.5	9.0	7.5	8.5
15	8.0	6.0	7.0	12.5	8.0	10.0	14.5	10.5	12.5	9.0	7.5	8.0
16	10.0	5.5	7.5	13.0	9.0	11.0	13.5	10.0	12.0	8.5	6.5	7.5
17	9.5	6.0	7.5	12.0	8.5	9.5	14.5	11.5	13.0	8.0	7.0	7.5
18	9.0	6.5	7.5	10.5	7.5	9.0	14.0	11.5	12.5	9.5	8.0	8.5
19	10.0	5.5	7.5	13.5	9.0	11.0	12.5	10.0	11.0	11.0	8.5	9.5
20	11.5	6.5	8.5	12.0	9.0	10.5	12.5	9.5	11.0	11.0	8.0	9.0
21	10.5	6.5	7.5	10.5	8.5	9.5	12.0	11.0	11.5	8.5	6.5	7.5
22	10.5	6.5	8.5	13.5	8.5	10.5	12.0	11.0	11.5	8.5	7.5	8.0
23	10.5	6.0	8.0	13.5	9.0	11.5	11.5	10.0	10.5	8.0	6.0	7.0
24	8.5	6.5	7.0	13.0	9.5	11.0	11.5	9.0	10.0	7.5	6.0	6.5
25	8.0	6.0	7.0	11.5	9.5	10.5	11.0	9.5	10.0	7.5	6.5	7.0
26	9.5	6.0	7.5	11.0	8.5	9.5	11.5	9.0	10.5	6.5	5.0	6.0
27	9.5	7.0	8.5	10.5	8.0	9.0	11.5	9.0	10.5	7.5	5.5	6.5
28	9.5	6.5	8.0	10.5	8.0	9.0	11.0	8.5	9.5	8.0	6.5	7.0
29	9.5	7.0	8.0	10.5	8.5	9.5	11.0	8.5	9.5	8.5	8.0	8.0
30	8.0	6.0	7.0	11.0	8.5	10.0	10.5	8.5	9.5	8.5	6.0	7.0
31	---	---	---	11.0	9.0	10.0	11.0	9.5	10.5	---	---	---
MONTH	11.5	4.5	7.2	15.0	6.0	9.8	15.5	8.5	11.3	11.5	5.0	8.5

SOUTH-CENTRAL ALASKA

15297580 ALEC RIVER NEAR CHIGNIK—Continued

TEMPERATURE, WATER (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	6.5	5.0	5.5	2.0	1.0	1.5	4.0	2.0	3.0	4.0	3.5	3.5
2	6.5	5.5	6.0	4.5	2.0	3.0	2.0	1.5	2.0	3.5	2.5	3.0
3	6.5	6.0	6.5	4.0	0.5	1.5	2.0	2.0	2.0	3.5	2.5	3.5
4	7.5	6.0	6.5	2.0	0.5	1.0	2.5	2.0	2.0	2.5	1.5	2.0
5	7.5	6.0	7.0	2.5	1.5	2.0	3.0	1.5	2.0	2.0	0.5	1.0
6	6.5	5.5	6.0	2.5	1.5	2.0	3.0	2.0	2.5	2.5	0.5	1.5
7	7.0	6.0	6.5	2.5	1.0	1.5	2.5	1.5	2.0	0.5	0.0	0.5
8	8.0	6.0	7.0	2.0	0.5	1.0	2.0	1.0	1.5	0.0	0.0	0.0
9	8.0	5.5	6.5	4.5	1.0	3.5	1.0	0.0	0.5	0.0	0.0	0.0
10	7.0	5.0	6.0	4.0	3.0	3.0	2.0	0.0	1.0	0.0	0.0	0.0
11	7.0	6.0	6.5	3.5	2.5	3.0	2.0	0.5	1.0	0.0	0.0	0.0
12	7.0	5.5	6.5	4.0	3.5	3.5	2.0	1.0	1.5	1.5	0.0	0.5
13	7.0	6.0	6.5	4.0	3.5	3.5	1.5	0.5	1.0	3.0	1.5	2.5
14	7.0	5.0	6.0	5.5	3.5	4.5	2.5	0.5	1.0	3.0	2.0	2.5
15	7.0	5.5	6.0	4.5	1.5	2.5	2.5	2.0	2.0	3.0	2.5	3.0
16	6.5	5.5	6.0	2.0	1.5	1.5	3.0	2.5	2.5	3.0	2.5	2.5
17	7.5	6.0	7.0	3.0	1.5	2.0	3.0	2.5	2.5	3.0	2.5	2.5
18	9.0	7.0	8.0	3.5	3.0	3.0	3.0	2.0	2.5	2.5	1.5	2.0
19	9.0	6.0	7.0	4.0	3.0	3.5	2.0	0.5	1.5	3.0	2.0	2.5
20	6.0	3.5	5.0	3.5	2.5	3.0	0.5	0.0	0.5	3.0	2.5	3.0
21	5.5	4.0	5.0	4.5	2.5	3.5	4.0	0.5	2.0	3.5	3.0	3.0
22	5.5	5.0	5.5	5.0	4.0	4.5	4.0	2.0	3.5	3.0	2.5	3.0
23	6.0	4.5	5.5	5.0	3.0	3.5	2.0	0.0	0.5	2.5	1.5	2.0
24	4.5	3.0	4.0	3.5	2.0	2.5	0.0	0.0	0.0	3.5	2.0	2.5
25	5.5	3.5	4.5	3.0	2.5	3.0	0.0	0.0	0.0	3.5	2.5	3.0
26	6.0	5.0	5.5	5.0	3.0	4.0	0.5	0.0	0.0	3.5	3.0	3.0
27	5.5	4.5	5.0	5.0	3.0	4.5	1.5	0.5	1.0	3.5	3.0	3.0
28	4.5	3.0	3.5	3.5	2.0	2.5	0.5	0.0	0.5	3.5	3.0	3.0
29	4.0	2.5	3.5	4.0	3.0	4.0	0.5	0.0	0.0	3.5	3.0	3.5
30	2.5	1.5	2.0	4.0	2.5	3.0	3.0	0.5	2.0	3.5	3.0	3.5
31	2.5	1.0	2.0	---	---	---	3.5	3.0	3.5	3.5	0.0	1.0
MONTH	9.0	1.0	5.6	5.5	0.5	2.8	4.0	0.0	1.5	4.0	0.0	2.1

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	3.5	1.0	2.0	0.0	0.0	0.0	8.0	5.0	6.0
2	0.0	0.0	0.0	3.5	2.5	3.0	0.0	0.0	0.0	7.5	4.5	6.0
3	0.0	0.0	0.0	3.5	2.0	3.0	0.5	0.0	0.0	8.5	5.5	7.0
4	0.0	0.0	0.0	3.5	2.5	3.0	1.0	0.0	0.5	8.0	5.0	7.0
5	0.5	0.0	0.0	4.5	3.0	3.5	0.5	0.0	0.0	7.0	5.5	6.5
6	3.5	0.5	2.0	3.5	2.0	3.0	4.5	0.5	2.0	8.5	4.0	5.5
7	3.5	2.0	2.5	4.0	3.0	3.5	5.5	2.5	4.0	8.0	4.5	6.0
8	2.5	1.5	2.0	4.5	3.5	4.0	5.5	4.0	4.5	10.0	4.5	7.0
9	2.0	0.0	0.5	4.0	3.0	3.5	4.5	1.5	3.5	9.5	5.0	7.0
10	0.0	0.0	0.0	5.0	2.5	3.5	1.5	0.5	1.0	8.0	5.0	6.5
11	0.0	0.0	0.0	5.0	2.0	3.5	4.0	0.5	2.0	10.5	5.0	7.5
12	0.5	0.0	0.0	4.5	2.5	3.5	6.5	2.0	3.5	10.0	5.0	7.0
13	3.0	0.5	2.5	4.5	3.0	4.0	7.0	3.5	5.5	8.5	4.5	6.5
14	3.0	2.0	2.5	4.5	3.0	4.0	7.0	3.5	5.0	8.5	5.0	6.5
15	2.5	1.0	2.0	4.0	3.0	3.5	8.0	4.0	6.0	8.5	5.0	7.0
16	3.0	2.5	2.5	4.5	1.5	3.0	8.0	4.0	6.0	9.0	5.5	7.0
17	4.5	2.5	3.5	4.5	3.0	4.0	6.5	4.0	5.0	8.5	4.5	6.0
18	4.0	2.0	2.5	6.0	3.0	4.5	4.5	3.5	4.0	7.5	4.0	6.0
19	4.0	2.0	3.0	5.5	3.0	4.5	6.0	2.5	4.0	7.5	5.0	6.0
20	4.0	3.0	3.5	5.5	3.0	4.0	5.5	3.0	4.5	6.0	4.5	5.0
21	3.5	1.5	2.5	3.0	0.5	1.0	6.5	4.0	5.0	5.0	4.0	4.5
22	3.5	2.5	3.0	4.0	0.0	2.0	7.0	3.5	5.5	7.5	4.5	6.0
23	3.0	2.0	3.0	3.5	1.0	2.5	9.0	5.0	7.0	9.5	5.0	7.5
24	3.5	2.0	2.5	4.0	2.5	3.5	9.5	5.0	7.0	11.5	6.0	9.0
25	3.5	2.5	3.0	3.0	1.0	2.0	8.0	6.0	7.0	11.0	6.5	8.5
26	3.5	2.0	2.5	4.5	0.5	2.5	6.5	5.5	6.0	8.0	5.5	6.5
27	3.0	1.5	2.5	4.5	2.5	3.5	8.0	5.0	6.5	8.0	5.0	6.5
28	3.5	2.0	2.5	3.5	1.5	3.0	7.0	5.5	6.5	8.5	5.0	6.5
29	---	---	---	3.5	0.5	2.0	9.0	4.5	6.5	7.5	5.0	6.0
30	---	---	---	0.5	0.0	0.0	9.0	6.0	8.0	9.5	5.0	6.5
31	---	---	---	0.0	0.0	0.0	---	---	---	8.5	5.0	7.0
MONTH	4.5	0.0	1.8	6.0	0.0	3.0	9.5	0.0	4.2	11.5	4.0	6.6

SOUTH-CENTRAL ALASKA

15297580 ALEC RIVER NEAR CHIGNIK—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	5.0	7.0	11.0	7.5	9.0	11.5	9.0	10.5	10.0	8.0	9.0
2	9.0	5.5	7.0	13.5	8.0	10.5	12.5	8.5	10.5	10.0	8.0	9.0
3	10.5	5.0	7.5	13.5	9.0	10.5	13.0	9.5	11.0	9.5	8.5	9.0
4	12.5	5.0	8.5	10.5	8.0	9.0	11.5	9.0	10.0	9.5	8.5	9.0
5	11.5	5.0	8.5	11.0	8.5	9.5	14.0	9.5	11.5	9.5	8.0	9.0
6	10.5	6.5	8.0	10.5	8.0	9.5	13.5	10.0	12.0	9.5	8.0	8.5
7	8.5	5.5	6.5	13.5	8.5	10.5	15.0	11.0	13.5	10.0	8.0	9.0
8	9.0	5.5	7.5	14.0	9.0	12.0	14.5	11.0	13.0	10.0	8.0	8.5
9	9.0	5.5	7.0	13.5	9.0	11.0	15.0	11.0	13.0	10.0	9.0	9.5
10	9.5	6.0	7.5	13.5	9.0	11.0	15.5	11.0	13.0	10.0	8.0	9.5
11	9.5	6.5	8.0	13.5	8.5	10.5	15.5	10.5	13.0	11.0	9.0	10.0
12	9.0	6.0	7.0	11.5	7.5	9.5	15.0	11.5	13.5	11.0	8.0	9.0
13	11.0	5.5	8.0	12.5	8.5	10.0	14.0	11.5	12.5	9.5	7.0	8.0
14	10.5	6.0	8.5	13.0	9.5	11.5	14.0	11.0	12.5	10.0	8.0	9.0
15	12.5	6.5	9.5	12.5	10.0	11.5	14.0	11.5	12.5	10.0	9.5	10.0
16	12.5	6.5	9.5	11.5	9.0	10.0	14.0	11.5	12.5	9.5	8.0	8.5
17	11.5	7.0	8.5	10.5	9.0	9.5	13.0	10.5	11.5	9.0	8.0	8.5
18	10.5	6.0	8.0	11.5	8.0	9.5	12.5	9.5	11.0	8.5	8.0	8.0
19	10.0	6.0	8.0	13.5	9.0	11.0	12.5	11.0	11.5	8.5	7.5	8.0
20	11.0	5.5	8.5	13.0	9.0	11.0	11.5	10.0	11.0	8.5	7.0	7.5
21	11.0	7.0	9.0	12.5	9.0	10.5	11.5	10.5	11.0	8.5	7.5	8.0
22	10.0	7.0	8.0	11.5	10.0	10.5	13.5	11.0	12.0	9.5	8.0	8.5
23	12.0	7.0	9.0	13.0	9.5	11.0	13.5	11.0	12.0	9.0	7.5	8.5
24	11.5	7.5	9.5	12.5	9.5	10.5	11.0	9.5	10.5	8.5	7.0	8.0
25	10.5	7.5	9.0	12.0	8.0	9.5	10.5	9.5	10.0	8.0	6.5	7.5
26	12.5	7.5	9.5	12.0	8.5	10.0	10.5	9.0	10.0	7.5	7.0	7.5
27	14.5	8.0	11.0	11.5	8.5	10.0	10.5	9.5	10.0	8.0	7.5	7.5
28	14.0	7.5	11.0	11.0	9.0	10.0	11.0	10.0	10.5	8.0	7.5	7.5
29	14.5	8.5	12.0	10.5	9.0	9.5	11.0	9.5	10.0	7.5	6.5	7.0
30	14.0	7.5	10.0	11.0	8.5	9.5	10.0	9.0	9.5	7.0	6.0	6.5
31	---	---	---	11.5	8.5	10.0	9.0	8.5	8.5	---	---	---
MONTH	14.5	5.0	8.6	14.0	7.5	10.2	15.5	8.5	11.4	11.0	6.0	8.4