

SOUTH-CENTRAL ALASKA

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET 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 May 4, 2005 and July 7, 2005. Variations of 0.3°C or less were found within the cross sections on both dates. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 23.5°C, July 11, 2004; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR 2004 WATER YEAR.--
WATER TEMPERATURE: Maximum, 23.5°C, July 11; minimum recorded 5.0°C, September 27.

EXTREMES FOR 2005 WATER YEAR.--
WATER TEMPERATURE: Maximum, 21.0°C, August 8 and 12; minimum 0.0°C on many days during the winter.

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

Date	Time	Stream width, feet (00004)	Loca- tion in X-sect. looking downstrm ft from l bank (00009)	Gage height, feet (00065)	Instan- taneous dis- charge, cfs (00061)	Sam- pler type, code (84164)	Sam- pling method, code (82398)	Temper- ature, water, deg C (00010)	Temper- ature, air, deg C (00020)
MAY									
04...	1328	180	162	6.41	678	8010	10	9.3	10.5
04...	1329	180	126	6.41	678	8010	10	9.2	10.5
04...	1330	180	90.0	6.41	678	8010	10	9.1	10.5
04...	1331	180	54.0	6.41	678	8010	10	9.1	10.5
04...	1332	180	18.0	6.41	678	8010	10	9.2	10.5
JUL									
07...	1625	176	18.0	6.79	943	8010	10	15.6	13.7
07...	1626	176	53.0	6.79	943	8010	10	15.5	13.7
07...	1627	176	88.0	6.79	943	8010	10	15.4	13.7
07...	1628	176	123	6.79	943	8010	10	15.3	13.7
07...	1629	176	158	6.79	943	8010	10	15.4	13.7

SOUTH-CENTRAL ALASKA

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET NEAR CHIGNIK—Continued

TEMPERATURE, WATER (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	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	12.5	---	---
21	---	---	---	---	---	---	---	---	---	13.5	8.5	11.0
22	---	---	---	---	---	---	---	---	---	12.0	9.5	11.0
23	---	---	---	---	---	---	---	---	---	11.5	10.0	10.5
24	---	---	---	---	---	---	---	---	---	12.5	9.0	10.5
25	---	---	---	---	---	---	---	---	---	12.0	10.0	11.0
26	---	---	---	---	---	---	---	---	---	13.0	9.5	11.0
27	---	---	---	---	---	---	---	---	---	12.0	10.5	11.5
28	---	---	---	---	---	---	---	---	---	11.5	10.0	11.0
29	---	---	---	---	---	---	---	---	---	10.0	8.5	9.0
30	---	---	---	---	---	---	---	---	---	10.0	8.0	9.0
31	---	---	---	---	---	---	---	---	---	12.0	8.5	10.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	12.0	9.5	10.5	14.0	11.5	12.5	17.0	15.5	16.0	14.5	13.0	13.5
2	11.0	10.0	10.0	13.0	11.5	12.0	19.0	14.0	16.5	15.0	13.0	14.0
3	10.0	8.5	9.5	14.0	11.0	13.0	18.5	16.0	17.0	13.5	12.5	13.0
4	10.0	8.5	9.0	14.0	12.0	13.0	16.0	14.0	15.0	13.5	12.0	12.5
5	13.0	9.5	11.0	15.0	13.0	14.0	16.0	14.5	15.0	14.5	12.0	13.0
6	12.5	12.0	12.0	15.5	13.0	14.0	17.5	14.5	16.0	14.0	12.5	13.0
7	12.0	11.0	11.5	17.5	13.0	15.0	19.0	14.0	16.5	13.5	12.0	12.5
8	11.5	9.0	10.5	19.0	15.0	17.0	20.0	16.5	18.5	14.0	11.0	12.5
9	11.5	8.5	10.0	21.0	16.5	18.5	20.0	16.0	17.5	13.5	12.0	12.5
10	12.5	9.0	10.5	22.5	18.0	20.0	20.5	17.5	18.5	14.0	11.5	12.5
11	12.0	10.5	11.0	23.5	18.5	21.0	21.0	17.5	19.0	14.0	11.5	12.5
12	11.5	9.5	11.0	22.0	16.5	19.0	19.5	17.0	18.5	13.5	11.5	12.5
13	11.5	9.5	10.5	16.5	14.0	15.5	17.0	15.0	15.5	14.0	10.0	12.0
14	12.5	10.5	11.5	15.5	14.0	14.5	17.5	14.0	15.5	12.0	10.0	11.0
15	12.5	11.0	12.0	17.0	14.5	15.5	19.5	14.0	16.5	11.5	10.0	10.5
16	13.5	11.5	12.5	17.0	14.0	15.5	19.5	16.0	17.5	10.5	8.5	9.5
17	13.0	11.0	12.0	15.5	14.0	14.5	19.5	16.5	18.0	10.0	8.5	9.0
18	12.0	10.5	11.0	15.0	14.0	14.0	17.5	16.5	16.5	11.0	9.5	10.5
19	14.0	10.5	12.0	16.5	13.0	14.0	17.0	15.5	16.0	13.0	10.0	11.5
20	14.0	11.5	12.5	16.0	14.0	15.0	18.5	15.0	16.5	12.0	9.5	11.0
21	14.0	12.0	13.0	15.0	13.0	14.0	17.0	14.5	15.0	11.0	8.5	9.5
22	14.0	12.5	13.0	17.5	14.0	15.5	16.0	13.5	14.5	10.0	9.0	9.5
23	15.0	12.5	13.5	18.5	15.5	16.5	16.5	13.5	15.0	9.0	7.5	8.0
24	14.0	13.0	13.5	17.0	14.5	15.5	16.0	14.0	15.0	8.5	6.5	7.5
25	13.0	10.5	11.5	15.5	14.0	14.5	15.5	14.5	15.0	8.5	7.5	8.0
26	14.0	10.5	12.0	16.0	14.5	15.0	15.0	13.0	14.0	7.5	6.0	6.5
27	14.0	12.5	13.5	15.0	13.5	14.0	14.5	12.5	13.5	7.5	5.0	6.0
28	14.5	12.0	13.0	15.0	13.5	14.0	13.5	12.0	12.5	8.0	6.5	7.0
29	13.5	13.0	13.0	15.5	14.0	14.5	13.0	11.0	12.0	9.5	7.5	8.5
30	13.5	12.5	13.0	16.0	13.5	15.0	14.0	11.5	12.5	9.5	7.5	8.5
31	---	---	---	17.0	14.5	15.5	14.0	12.0	13.0	---	---	---
MONTH	15.0	8.5	11.7	23.5	11.0	15.2	21.0	11.0	15.7	15.0	5.0	10.6

SOUTH-CENTRAL ALASKA

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET 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	7.5	6.0	7.0	0.5	0.0	0.0	2.5	1.0	1.5	0.5	0.0	0.5
2	7.5	6.5	7.0	1.5	0.0	1.0	1.0	0.5	0.5	0.5	0.0	0.5
3	7.0	6.5	7.0	1.0	0.0	0.0	0.5	0.0	0.5	0.5	0.5	0.5
4	8.0	6.5	7.0	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.5
5	8.0	7.0	7.5	0.5	0.0	0.0	1.0	0.0	0.5	0.5	0.0	0.0
6	7.0	6.0	6.5	0.5	0.0	0.0	1.0	0.0	0.5	0.5	0.0	0.0
7	7.5	6.5	7.0	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
8	9.0	6.5	7.5	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
9	8.0	7.0	7.5	1.5	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.0
10	8.0	6.0	7.0	1.0	0.5	0.5	0.5	0.0	0.0	0.5	0.0	0.0
11	7.5	6.5	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
12	8.0	6.5	7.0	1.5	0.5	1.0	0.0	0.0	0.0	1.0	0.0	0.5
13	8.0	6.5	7.5	1.5	0.5	1.0	0.0	0.0	0.0	1.0	0.5	0.5
14	8.5	6.5	7.5	3.5	1.0	2.5	0.5	0.0	0.5	1.5	0.5	1.0
15	7.5	7.0	7.0	2.5	0.5	1.5	0.5	0.0	0.5	1.5	1.0	1.5
16	7.0	6.0	6.5	1.0	0.5	0.5	1.0	0.0	0.5	1.0	0.5	1.0
17	7.5	6.0	7.0	1.0	0.0	0.5	1.0	0.5	0.5	1.0	0.5	0.5
18	9.0	7.0	8.0	1.0	0.5	0.5	1.0	0.5	0.5	0.5	0.0	0.0
19	8.5	7.0	7.5	2.0	1.0	1.5	0.5	0.0	0.0	0.5	0.0	0.0
20	7.5	6.0	6.5	2.0	1.0	1.5	0.5	0.0	0.0	1.0	0.0	0.5
21	6.0	4.5	5.0	3.0	1.0	2.0	1.5	0.0	1.0	1.0	0.5	0.5
22	5.5	4.5	5.0	3.0	2.0	2.5	2.0	0.0	1.5	1.5	1.0	1.0
23	5.5	4.5	5.5	2.5	2.0	2.0	0.0	0.0	0.0	1.0	0.0	0.5
24	4.5	3.0	3.5	2.0	1.0	1.0	0.0	0.0	0.0	1.5	0.0	0.5
25	5.0	3.0	3.5	1.0	0.5	1.0	0.0	0.0	0.0	2.0	1.0	1.5
26	5.0	4.0	4.5	3.5	1.0	2.0	0.0	0.0	0.0	1.5	1.0	1.0
27	5.0	4.0	4.5	3.5	2.5	3.0	0.0	0.0	0.0	1.5	1.0	1.0
28	4.0	3.0	3.5	2.5	1.5	2.0	0.0	0.0	0.0	2.0	1.0	1.5
29	3.0	2.0	2.5	2.5	1.5	2.5	0.0	0.0	0.0	3.0	1.5	2.0
30	2.0	1.0	1.0	2.5	1.5	2.0	0.5	0.0	0.0	3.0	1.5	2.5
31	1.0	0.0	0.5	---	---	---	0.5	0.0	0.5	1.5	0.0	0.0
MONTH	9.0	0.0	5.9	3.5	0.0	1.1	2.5	0.0	0.3	3.0	0.0	0.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	2.5	0.5	1.5	0.5	0.0	0.5	---	---	---
2	0.0	0.0	0.0	3.0	1.0	2.0	1.0	0.0	0.5	---	---	---
3	0.0	0.0	0.0	3.0	2.0	2.5	3.0	0.0	1.0	---	---	---
4	0.0	0.0	0.0	4.0	2.0	3.0	1.5	0.0	0.5	10.0	---	---
5	0.0	0.0	0.0	4.5	2.5	3.5	2.0	0.0	0.5	10.2	7.0	8.6
6	0.5	0.0	0.5	3.5	2.5	3.0	5.0	0.0	2.0	10.5	7.5	9.0
7	0.5	0.0	0.0	3.5	2.5	3.0	4.0	0.5	2.0	10.0	7.5	9.0
8	0.5	0.0	0.0	5.5	3.0	4.0	5.0	2.0	3.0	11.5	8.0	9.5
9	0.0	0.0	0.0	5.0	3.5	4.0	3.5	0.5	2.0	10.0	7.5	9.0
10	0.5	0.0	0.0	5.0	3.0	3.5	1.0	0.0	0.0	9.5	7.5	8.5
11	0.5	0.0	0.0	4.0	2.5	3.0	4.0	0.0	1.5	11.5	8.0	9.5
12	0.5	0.0	0.5	3.5	2.5	3.0	6.0	0.0	2.5	11.0	9.0	10.0
13	1.0	0.5	0.5	4.5	2.5	3.5	6.5	1.0	3.5	12.5	8.5	10.0
14	1.0	0.5	0.5	5.0	3.0	4.0	7.0	1.5	4.0	13.0	10.0	11.5
15	1.5	0.0	0.5	4.0	3.0	3.5	8.5	2.0	5.0	12.5	10.0	11.0
16	1.5	0.5	1.0	4.5	2.0	3.5	9.0	3.5	6.0	13.0	10.5	11.5
17	3.0	0.5	2.0	4.5	3.0	3.5	7.0	3.5	5.5	11.5	9.5	10.5
18	2.5	1.0	2.0	5.5	3.5	4.0	5.5	3.5	4.5	9.5	6.5	8.5
19	3.0	1.0	2.0	6.0	3.0	4.5	---	2.0	---	8.5	7.5	8.0
20	3.0	1.5	2.5	5.5	3.5	4.5	---	---	---	7.5	6.0	6.5
21	2.5	1.0	1.5	3.5	0.5	1.5	---	---	---	6.5	5.5	6.0
22	2.0	1.5	2.0	3.0	0.0	1.0	---	---	---	9.0	5.0	6.5
23	2.5	1.5	1.5	2.5	0.0	1.0	---	---	---	11.0	6.5	8.5
24	2.5	1.0	1.5	3.0	1.0	2.0	---	---	---	13.5	8.0	10.5
25	3.0	1.5	2.0	1.5	0.0	1.0	---	---	---	11.5	9.0	10.0
26	3.0	1.5	2.0	3.5	0.0	1.0	---	---	---	9.5	7.5	8.5
27	2.5	1.0	1.5	3.5	0.5	2.0	---	---	---	11.0	8.0	9.0
28	3.0	1.0	1.5	4.0	0.5	2.0	---	---	---	11.0	7.5	9.0
29	---	---	---	2.0	0.0	1.0	---	---	---	11.5	8.0	9.5
30	---	---	---	0.0	0.0	0.0	---	---	---	11.0	8.5	9.5
31	---	---	---	0.5	0.0	0.0	---	---	---	11.5	9.0	10.0
MONTH	3.0	0.0	0.9	6.0	0.0	2.6	---	---	---	---	---	---

SOUTH-CENTRAL ALASKA

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET 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	10.5	8.0	9.5	16.0	13.0	14.5	16.0	14.0	15.0	12.5	9.5	11.0
2	11.5	8.5	10.0	18.0	13.5	15.5	16.0	14.0	15.0	12.5	10.5	11.5
3	14.5	10.0	12.0	17.0	14.5	15.5	16.0	14.0	15.0	13.0	11.5	12.5
4	16.5	11.0	13.5	16.5	14.5	15.5	16.0	14.0	15.0	13.0	11.0	12.0
5	15.5	12.5	14.0	17.0	14.5	15.5	17.5	14.0	15.5	13.0	11.0	12.0
6	13.5	11.5	12.5	16.5	14.0	15.0	19.0	15.0	16.5	12.5	11.5	11.5
7	12.5	10.5	11.5	17.0	13.0	14.5	20.5	16.0	18.0	13.0	11.0	11.5
8	13.0	10.0	11.5	19.0	13.5	16.0	21.0	16.5	18.5	12.0	11.0	11.5
9	13.5	11.0	12.0	17.5	15.5	16.0	19.0	16.0	17.5	13.5	11.5	12.0
10	13.0	10.5	12.0	17.0	13.0	15.0	18.0	14.5	16.0	13.5	11.0	12.5
11	14.5	11.5	13.0	15.5	13.5	14.0	20.0	14.0	17.0	14.0	11.5	12.5
12	13.5	11.0	12.0	16.0	13.0	14.5	21.0	17.0	18.5	13.0	11.5	12.0
13	15.0	10.5	13.0	17.0	13.5	15.0	19.0	16.0	17.5	12.0	10.0	11.0
14	16.5	12.0	14.5	18.0	14.5	16.0	19.0	15.5	17.0	13.0	11.0	11.5
15	17.5	13.5	15.5	17.0	14.0	15.5	18.0	15.5	17.0	12.5	11.5	12.0
16	16.5	13.0	15.0	16.0	14.5	15.5	19.5	16.0	17.5	11.5	10.0	11.0
17	14.0	11.5	12.5	15.5	13.0	14.0	18.0	16.0	17.0	11.0	10.0	10.5
18	14.0	11.5	13.0	15.5	12.5	13.5	19.0	14.5	16.5	10.5	9.5	10.0
19	14.0	11.0	12.5	17.5	13.0	15.0	17.5	15.0	16.0	10.5	9.0	9.5
20	14.5	11.0	12.5	16.0	13.0	14.5	16.0	13.0	14.5	10.5	8.5	9.5
21	13.5	12.0	12.5	16.0	13.0	14.5	16.5	14.0	15.0	10.0	9.0	9.5
22	14.5	12.0	13.0	16.5	14.5	15.5	17.0	14.5	15.5	11.0	10.0	10.5
23	16.0	12.5	14.0	17.5	14.5	15.5	16.0	13.5	14.5	11.0	9.5	10.5
24	15.0	13.0	14.0	16.5	14.0	15.0	14.0	12.0	13.0	11.5	9.0	10.0
25	15.0	13.0	14.0	17.5	14.0	15.5	13.5	11.5	12.5	11.0	8.0	9.5
26	17.0	14.0	15.0	17.0	14.5	15.5	14.0	11.5	12.5	9.5	8.5	9.0
27	20.0	14.0	16.5	17.0	14.5	15.5	13.5	11.5	12.5	10.0	8.5	9.0
28	20.0	16.0	18.0	15.5	13.0	14.0	14.0	12.5	13.5	9.5	8.5	9.0
29	20.0	15.0	17.5	13.5	12.0	13.0	13.5	11.5	12.5	8.5	7.5	8.0
30	18.0	15.5	16.0	15.0	13.0	13.5	12.5	11.0	11.5	8.0	7.0	7.5
31	---	---	---	16.0	13.5	14.5	11.0	10.5	11.0	---	---	---
MONTH	20.0	8.0	13.4	19.0	12.0	14.9	21.0	10.5	15.3	14.0	7.0	10.7