## SOUTHWEST ALASKA

## 15303700 TATALINA RIVER NEAR TAKOTNA

## WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1992 to current year.
PERIOD OF DAILY RECORD.-WATER TEMPERATURE: July 1992 to current year (seasonal).

INSTRUMENTATION.--Electronic water-temperature recorder set for 1 -hour recording interval.
REMARKS.--No record from October 21 to March 31 when recorder was shut down. Records represent water temperature at the sensor within $0.5^{\circ} \mathrm{C}$. Temperature at the sensor was compared with the average for the river by cross section on August 24. A $0.3^{\circ} \mathrm{C}$ variation was found within the cross section. The variation between mean stream temperature and recorded sensor temperature was less than $0.5^{\circ} \mathrm{C}$.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE.--Maximum, $16.5^{\circ} \mathrm{C}$, July 30 to August 2, and 4, 1997 ; minimum, $0.0^{\circ} \mathrm{C}$, many days during fall, winter, and spring breakup periods most water years.

EXTREMES FOR CURRENT YEAR.-WATER TEMPERATURE: Maximum, $14.0^{\circ} \mathrm{C}$, August 10 ; minimum, $0.0^{\circ} \mathrm{C}$, many days during winter.

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

| Date | Time | $\begin{gathered} \text { Stream } \\ \text { width, } \\ \text { feet } \\ (00004) \end{gathered}$ | Sample location, cross section ft from rt bank (72103) | Gage height, feet (00065) | $\begin{gathered} \text { Instan- } \\ \text { taneous } \\ \text { dis- } \\ \text { charge, } \\ \text { cfs } \\ (00061) \end{gathered}$ | Sampling method, code (82398) | ```Sampler type, code (84164)``` | ```Temper- ature, water, deg C (00010)``` | $\begin{aligned} & \text { Temper- } \\ & \text { ature, } \\ & \text { air, } \\ & \text { deg C } \\ & (00020) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AUG |  |  |  |  |  |  |  |  |  |
| 24. | 1250 | 30.0 | 3.0 | 4.14 | 83 | 10 | 8010 | 8.6 | 11.2 |
| 24. | 1252 | 30.0 | 9.0 | 4.14 | 83 | 10 | 8010 | 8.5 | 11.2 |
| 24 | 1254 | 30.0 | 15.0 | 4.14 | 83 | 10 | 8010 | 8.5 | 11.2 |
| 24 | 1256 | 30.0 | 21.0 | 4.14 | 83 | 10 | 8010 | 8.4 | 11.2 |
| 24. | 1258 | 30.0 | 27.0 | 4.14 | 83 | 10 | 8010 | 8.3 | 11.2 |

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


## 15303700 TATALINA RIVER NEAR TAKOTNA—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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FEBRUARY |  |  |  | MARCH | APRIL |  |  |  | MAY |  |  |
| 1 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 |  | - | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 |  | --- | - |  | - | -- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| 8 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| 9 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.5 |
| 10 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 1.0 |
| 11 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 2.5 | 0.5 | 1.5 |
| 12 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 2.5 | 1.0 | 1.5 |
| 13 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 3.0 | 1.0 | 2.0 |
| 14 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 3.0 | 1.5 | 2.5 |
| 15 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 3.0 | 1.5 | 2.0 |
| 16 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 2.5 | 2.0 | 2.5 |
| 17 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 2.5 | 1.5 | 2.0 |
| 18 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 3.5 | 2.5 | 2.5 |
| 19 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 3.5 | 2.5 | 3.0 |
| 20 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 4.0 | 3.0 | 3.5 |
| 21 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 5.0 | 4.0 | 4.5 |
| 22 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 5.5 | 4.5 | 5.0 |
| 23 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 5.0 | 4.0 | 4.5 |
| 24 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 5.5 | 4.0 | 5.0 |
| 25 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 5.5 | 4.5 | 5.0 |
| 26 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 6.0 | 4.5 | 5.0 |
| 27 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 6.5 | 5.0 | 5.5 |
| 28 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 6.5 | 5.5 | 6.0 |
| 29 | --- | --- | --- | --- | --- | -- | 0.0 | 0.0 | 0.0 | 6.5 | 5.0 | 6.0 |
| 30 | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 7.0 | 5.5 | 6.0 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.0 | 5.5 | 6.0 |
| MONTH | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 2.7 |


| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | JUNE |  |  | JULY | AUGUST |  |  |  | SEPTEMBER |  |  |
| 1 | 7.0 | 6.0 | 6.5 | 10.5 | 9.5 | 10.0 | 12.5 | 10.0 | 11.5 | 7.0 | 5.5 | 6.0 |
| 2 | 7.0 | 5.5 | 6.0 | 11.5 | 9.5 | 10.5 | 11.0 | 9.5 | 10.5 | 5.5 | 4.0 | 5.0 |
| 3 | 7.5 | 5.5 | 6.0 | 11.0 | 9.5 | 10.0 | 11.5 | 9.0 | 10.0 | 5.5 | 5.0 | 5.5 |
| 4 | 7.5 | 5.5 | 6.5 | 10.5 | 9.5 | 10.0 | 11.5 | 9.5 | 10.5 | 6.0 | 5.5 | 5.5 |
| 5 | 8.0 | 6.0 | 7.0 | 11.0 | 9.0 | 10.0 | 11.0 | 9.5 | 10.5 | 7.0 | 6.0 | 6.5 |
| 6 | 8.5 | 6.0 | 7.5 | 11.5 | 9.0 | 10.5 | 12.5 | 10.0 | 11.0 | 7.0 | 6.5 | 7.0 |
| 7 | 9.0 | 6.5 | 8.0 | 12.5 | 10.0 | 11.0 | 12.5 | 10.5 | 11.5 | 7.0 | 6.5 | 6.5 |
| 8 | 9.0 | 8.0 | 8.5 | 12.5 | 11.0 | 11.5 | 13.5 | 11.0 | 12.0 | 7.0 | 6.5 | 6.5 |
| 9 | 8.0 | 6.5 | 7.5 | 12.5 | 10.5 | 11.5 | 13.5 | 10.0 | 11.5 | 6.5 | 6.5 | 6.5 |
| 10 | 9.0 | 6.5 | 8.0 | 13.5 | 11.0 | 12.0 | 14.0 | 11.0 | 12.0 | 7.0 | 6.0 | 6.5 |
| 11 | 9.0 | 8.0 | 8.0 | 13.0 | 11.5 | 12.0 | 13.0 | 10.5 | 12.0 | 6.5 | 6.0 | 6.5 |
| 12 | 9.0 | 6.5 | 8.0 | 12.0 | 11.0 | 11.5 | 13.0 | 10.0 | 11.5 | 6.5 | 6.5 | 6.5 |
| 13 | 8.5 | 7.5 | 8.0 | 12.0 | 10.0 | 11.0 | 13.0 | 10.5 | 11.5 | 6.5 | 6.0 | 6.5 |
| 14 | 10.0 | 7.5 | 8.5 | 12.5 | 10.0 | 11.0 | 13.0 | 10.5 | 11.5 | 6.5 | 6.0 | 6.0 |
| 15 | 10.0 | 8.5 | 9.5 | 13.5 | 10.5 | 12.0 | 12.5 | 10.5 | 11.5 | 6.0 | 6.0 | 6.0 |
| 16 | 11.0 | 9.0 | 9.5 | 12.0 | 11.0 | 11.5 | 12.0 | 10.5 | 11.0 | 6.5 | 6.0 | 6.0 |
| 17 | 12.0 | 9.5 | 10.5 | 11.5 | 10.0 | 10.5 | 13.0 | 10.5 | 11.5 | 6.0 | 5.5 | 6.0 |
| 18 | 11.5 | 9.5 | 10.5 | 11.5 | 10.0 | 10.5 | 12.5 | 11.0 | 11.5 | 5.5 | 5.5 | 5.5 |
| 19 | 9.5 | 8.0 | 8.5 | 10.5 | 10.0 | 10.5 | 11.0 | 9.0 | 10.0 | 5.5 | 5.0 | 5.0 |
| 20 | 8.5 | 7.5 | 8.0 | 11.0 | 9.5 | 10.0 | 9.5 | 7.5 | 8.5 | 5.5 | 4.5 | 5.0 |
| 21 | 9.5 | 7.5 | 8.0 | 11.5 | 9.0 | 10.0 | 9.0 | 8.5 | 8.5 | 5.0 | 4.5 | 4.5 |
| 22 | 10.5 | 8.0 | 9.0 | 12.0 | 9.0 | 10.5 | 8.5 | 7.5 | 8.0 | 6.0 | 4.5 | 5.0 |
| 23 | 11.0 | 9.0 | 10.0 | 12.5 | 9.5 | 11.0 | 9.0 | 7.5 | 8.0 | 6.0 | 6.0 | 6.0 |
| 24 | 10.5 | 9.0 | 9.5 | 12.5 | 10.5 | 11.5 | 9.0 | 8.0 | 8.5 | 6.0 | 5.0 | 5.0 |
| 25 | 11.0 | 8.5 | 9.5 | 12.0 | 10.0 | 11.0 | 8.5 | 7.0 | 7.5 | 5.0 | 5.0 | 5.0 |
| 26 | 11.0 | 9.0 | 10.0 | 12.5 | 10.5 | 11.5 | 7.5 | 7.0 | 7.5 | 5.0 | 4.5 | 4.5 |
| 27 | 11.5 | 9.0 | 10.5 | 12.5 | 10.0 | 11.5 | 7.5 | 6.5 | 7.0 | 4.5 | 4.0 | 4.5 |
| 28 | 12.5 | 9.5 | 11.0 | 12.0 | 10.5 | 11.0 | 7.5 | 7.0 | 7.0 | 4.5 | 3.5 | 4.0 |
| 29 | 11.5 | 10.5 | 11.0 | 12.0 | 10.0 | 11.0 | 8.0 | 7.0 | 7.5 | 3.5 | 3.0 | 3.5 |
| 30 | 11.0 | 10.5 | 11.0 | 13.5 | 11.0 | 12.0 | 8.5 | 7.0 | 8.0 | 3.0 | 2.5 | 2.5 |
| 31 | --- | - | - | 13.5 | 11.5 | 12.5 | 8.0 | 7.0 | 7.5 | --- | --- | --- |
| MONTH | 12.5 | 5.5 | 8.7 | 13.5 | 9.0 | 11.0 | 14.0 | 6.5 | 9.9 | 7.0 | 2.5 | 5.5 |

