## 15087080 UPPER EARL WEST CREEK NEAR WRANGELL

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2004 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 2003 to current year.
INSTRUMENTATION.--Electronic water-temperature recorder since October 2003, set for $15-m i n u t e$ recording interval.
REMARKS.-- Missing record October 16-27, November 9-10, December 31 to January 16, March 18-25, April 22 to May 1 , May 6-19, and May 25 to June 9 due to probe in air or ice. Records represent water temperature at sensor within $0.5^{\circ} \mathrm{C}$. Temperature at the sensor was compared with the stream average by cross section on December 7 . No variation was found within the cross sections. The variation between mean stream temperature and sensor temperature is less than $0.5^{\circ} \mathrm{C}$.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, $21.5^{\circ} \mathrm{C}$, August 13,2005 ; minimum, $0.0^{\circ} \mathrm{C}$ on many days during winter periods.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, $21.5^{\circ} \mathrm{C}$, August 13 ; minimum, $0.0^{\circ} \mathrm{C}$ on many days during winter.

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

| Date | Time | $\begin{gathered} \text { Stream } \\ \text { width, } \\ \text { feet } \\ (00004) \end{gathered}$ | Location in X-sect. looking dwnstrm ft from 1 bank (00009) | Instantaneous discharge, cfs (00061) | Sampling method, code (82398) | $\begin{aligned} & \text { Temper- } \\ & \text { ature, } \\ & \text { water, } \\ & \text { deg C } \\ & (00010) \end{aligned}$ | ```Temper- ature, air, deg C (00020)``` |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DEC |  |  |  |  |  |  |  |
| 07. | 1440 | 16.0 | 4.00 | 5.6 | 10 | . 0 | -4.2 |
| 07. | 1441 | 16.0 | 8.00 | 5.6 | 10 | . 0 | -4.2 |
| 07. | 1442 | 16.0 | 12.0 | 5.6 | 10 | . 0 | -4.2 |
| 07 | 1443 | 16.0 | 16.0 | 5.6 | 10 | . 0 | -4.2 |

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 |  |  | MBER |  |  | EMBER |  |  | JANUARY |  |
| 1 | 9.0 | 7.5 | 8.0 | 3.0 | 2.0 | 2.0 | 3.0 | 2.5 | 2.5 | --- | --- | --- |
| 2 | 9.5 | 7.0 | 8.0 | 2.5 | 1.5 | 2.0 | 3.5 | 2.5 | 3.0 | --- | --- | --- |
| 3 | 8.5 | 6.0 | 7.0 | 3.0 | 1.5 | 2.5 | 3.5 | 2.0 | 3.0 | --- | --- | --- |
| 4 | 9.0 | 7.5 | 8.0 | 2.5 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | --- | --- | --- |
| 5 | 9.0 | 8.0 | 8.5 | 2.5 | 1.5 | 2.0 | 1.0 | 0.0 | 0.5 | --- | --- | --- |
| 6 | 8.0 | 7.5 | 8.0 | 1.5 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | --- | --- | --- |
| 7 | 8.0 | 7.5 | 8.0 | 1.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | --- | --- | --- |
| 8 | 8.0 | 7.5 | 8.0 | 1.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | --- | --- | --- |
| 9 | 8.0 | 7.5 | 8.0 | --- | --- | --- | 0.0 | 0.0 | 0.0 | --- | --- | --- |
| 10 | 8.0 | 8.0 | 8.0 | --- | --- | --- | 0.0 | 0.0 | 0.0 | --- | --- | --- |
| 11 | 8.0 | 7.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | --- | --- | --- |
| 12 | 9.0 | 6.0 | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | --- | --- | --- |
| 13 | 9.5 | 9.0 | 9.5 | 2.0 | 0.0 | 1.5 | 0.5 | 0.0 | 0.0 | --- | --- | --- |
| 14 | 9.5 | 9.0 | 9.0 | 3.0 | 2.0 | 2.5 | 1.0 | 0.0 | 0.5 | --- | --- | --- |
| 15 | 9.0 | 7.5 | 8.5 | 3.0 | 2.5 | 3.0 | 1.0 | 0.5 | 1.0 | --- | --- | --- |
| 16 | --- | --- | --- | 3.0 | 2.5 | 3.0 | 2.0 | 1.0 | 1.5 | --- | --- | --- |
| 17 | --- | --- | --- | 2.5 | 1.5 | 2.5 | 2.5 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 18 | --- | --- | --- | 1.5 | 0.5 | 1.0 | 4.0 | 2.5 | 3.0 | 0.0 | 0.0 | 0.0 |
| 19 | --- | --- | --- | 2.0 | 1.0 | 1.5 | 4.0 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 |
| 20 | - | --- | --- | 3.5 | 2.0 | 2.5 | 2.5 | 1.5 | 2.0 | 0.0 | 0.0 | 0.0 |
| 21 | --- | --- | --- | 3.5 | 3.0 | 3.5 | 1.5 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 |
| 22 | --- | --- | --- | 3.0 | 2.0 | 2.5 | 2.0 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 |
| 23 | --- | --- | --- | 2.0 | 1.5 | 1.5 | 2.5 | 1.5 | 2.0 | 0.5 | 0.0 | 0.0 |
| 24 | --- | --- | --- | 2.0 | 1.5 | 2.0 | 3.0 | 2.0 | 2.5 | 1.0 | 0.5 | 0.5 |
| 25 | --- | --- | --- | 2.0 | 2.0 | 2.0 | 2.0 | 0.5 | 1.0 | 1.0 | 0.0 | 0.5 |
| 26 | --- | --- | --- | 2.0 | 1.5 | 2.0 | 0.5 | 0.0 | 0.0 | 1.5 | 1.0 | 1.0 |
| 27 | --- | --- | --- | 2.0 | 1.5 | 2.0 | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 1.5 |
| 28 | 3.0 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 1.5 |
| 29 | 3.0 | 2.0 | 2.5 | 2.5 | 2.0 | 2.5 | 0.0 | 0.0 | 0.0 | 1.5 | 1.0 | 1.5 |
| 30 | 3.0 | 2.5 | 3.0 | 2.5 | 2.0 | 2.5 | 0.0 | 0.0 | 0.0 | 2.0 | 1.5 | 1.5 |
| 31 | 3.0 | 2.5 | 2.5 | -- | - | --- | --- | --- | --- | 1.5 | 1.0 | 1.5 |
| MONTH | --- | --- | --- | --- | --- | --- | -- | --- | -- | --- | --- | - |



| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | JUNE |  |  | JULY |  |  | JGUST |  |  | PTEMB |  |
| 1 | -- | --- | --- | 14.0 | 12.5 | 13.0 | 14.5 | 11.5 | 13.0 | 11.0 | 10.5 | 11.0 |
| 2 | --- | --- | --- | 13.5 | 12.0 | 13.0 | 16.0 | 12.0 | 14.0 | 11.5 | 10.0 | 10.5 |
| 3 | --- |  | --- | 12.0 | 11.0 | 11.5 | 14.0 | 11.5 | 13.0 | 13.0 | 10.5 | 11.5 |
| 4 | --- | --- | --- | 12.0 | 11.0 | 11.5 | 12.0 | 11.0 | 11.5 | 12.5 | 10.5 | 11.5 |
| 5 | --- | --- | --- | 12.0 | 11.0 | 11.5 | 12.0 | 11.5 | 11.5 | 11.5 | 10.5 | 11.0 |
| 6 | --- | --- | --- | 12.0 | 10.5 | 11.0 | 13.5 | 11.5 | 12.0 | 11.0 | 10.5 | 11.0 |
| 7 | --- | --- | --- | 11.5 | 10.5 | 11.0 | 15.5 | 11.5 | 13.0 | 11.5 | 11.0 | 11.0 |
| 8 | --- | --- | --- | 13.0 | 10.5 | 11.5 | 16.5 | 12.0 | 14.0 | 11.5 | 10.5 | 11.0 |
| 9 | --- | --- | --- | 13.0 | 11.5 | 12.5 | 18.5 | 13.0 | 15.5 | 12.0 | 9.5 | 10.5 |
| 10 | 18.0 | 14.5 | 16.0 | 12.0 | 11.0 | 11.5 | 19.5 | 14.0 | 16.5 | 11.0 | 9.5 | 10.0 |
| 11 | 16.5 | 14.5 | 15.5 | 13.5 | 11.0 | 12.5 | 20.5 | 14.5 | 17.5 | 13.0 | 10.0 | 11.5 |
| 12 | 15.5 | 14.0 | 15.0 | 12.5 | 11.5 | 12.0 | 20.5 | 15.0 | 18.0 | 12.0 | 11.0 | 11.5 |
| 13 | 14.5 | 13.0 | 14.0 | 13.0 | 12.0 | 12.5 | 21.5 | 15.5 | 18.5 | 12.0 | 10.5 | 11.5 |
| 14 | 13.0 | 9.5 | 11.0 | 12.5 | 11.0 | 11.5 | 20.5 | 16.5 | 18.5 | 11.5 | 10.5 | 11.0 |
| 15 | 12.0 | 10.0 | 11.0 | 12.5 | 11.0 | 11.5 | 18.5 | 16.5 | 17.0 | 12.0 | 10.0 | 11.0 |
| 16 | 17.0 | 9.0 | 13.0 | 13.0 | 11.0 | 12.0 | 20.0 | 16.0 | 17.5 | 11.0 | 10.0 | 10.5 |
| 17 | 19.5 | 11.5 | 15.5 | 13.0 | 12.0 | 12.5 | 19.5 | 15.5 | 17.0 | 10.5 | 10.0 | 10.0 |
| 18 | 21.0 | 13.5 | 17.5 | 12.5 | 11.5 | 12.0 | 17.5 | 13.5 | 16.0 | 10.0 | 9.5 | 10.0 |
| 19 | 19.5 | 15.5 | 17.0 | 13.5 | 11.5 | 12.5 | 14.5 | 13.5 | 14.0 | 10.0 | 9.0 | 9.5 |
| 20 | 16.5 | 14.5 | 15.5 | 12.5 | 11.5 | 12.0 | 13.5 | 12.5 | 13.0 | 10.0 | 9.0 | 9.5 |
| 21 | 15.5 | 13.0 | 14.0 | 14.0 | 11.5 | 12.5 | 12.5 | 11.5 | 12.0 | 10.0 | 9.0 | 9.5 |
| 22 | 15.0 | 12.5 | 14.0 | 15.5 | 11.0 | 13.0 | 12.5 | 11.5 | 12.0 | 9.5 | 8.5 | 9.0 |
| 23 | 14.0 | 12.5 | 13.5 | 14.0 | 12.5 | 13.0 | 13.0 | 11.5 | 12.0 | 9.5 | 9.0 | 9.5 |
| 24 | 13.0 | 10.5 | 12.0 | 14.5 | 12.0 | 13.0 | 14.0 | 11.0 | 12.5 | 10.0 | 9.5 | 10.0 |
| 25 | 15.0 | 11.0 | 13.0 | 14.0 | 12.5 | 13.0 | 13.5 | 12.0 | 13.0 | 10.0 | 9.0 | 9.5 |
| 26 | 17.5 | 12.0 | 14.5 | 14.5 | 12.5 | 13.5 | 13.0 | 11.5 | 12.5 | 9.5 | 8.5 | 9.0 |
| 27 | 19.0 | 13.5 | 16.0 | 13.0 | 12.0 | 12.5 | 12.5 | 11.0 | 12.0 | 8.5 | 7.0 | 7.5 |
| 28 | 16.5 | 14.5 | 15.0 | 13.0 | 12.0 | 12.5 | 13.5 | 11.0 | 12.5 | 9.0 | 8.0 | 8.5 |
| 29 | 14.5 | 12.0 | 13.5 | 13.0 | 11.5 | 12.0 | 12.5 | 11.5 | 12.0 | 9.0 | 8.5 | 8.5 |
| 30 | 14.5 | 12.0 | 13.0 | 13.0 | 11.5 | 12.0 | 12.0 | 11.0 | 11.5 | 8.5 | 8.0 | 8.5 |
| 31 | - | --- | - | 12.5 | 11.5 | 12.0 | 11.5 | 11.0 | 11.0 | --- | --- | --- |
| MONTH | --- | -- | --- | 15.5 | 10.5 | 12.2 | 21.5 | 11.0 | 14.0 | 13.0 | 7.0 | 10.2 |

