## SCHUYLKILL RIVER BASIN

## 01472104 SCHUYLKILL RIVER AT VINCENT DAM AT LINFIELD, PA

LOCATION.--Lat $40^{\circ} 12^{\prime} 22^{\prime \prime}$, long $75^{\circ} 33^{\prime} 577^{\prime \prime}$, Montgomery County, Hydrologic Unit 02040203, on left bank 100 ft upstream from Vincent Dam, and 0.3 mi south of Linfield.

DRAINAGE AREA.- $-1,189 \mathrm{mi}^{2}$.
PERIOD OF RECORD.--Water years 1986 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1986 to September 1990.
WATER TEMPERATURE: September 1989 to current year.
DISSOLVED OXYGEN: January 1986 to September 1990; March 1997 to current year.
INSTRUMENTATION.--Water-quality monitor January 1986 to September 1990, March 1997 to current year. In situ water temperature probe since October 1990. Probes interfaced with a data collection platform.

REMARKS.--Water temperature records rated good; dissolved oxygen records rated poor. Dissolved oxygen collection discontinued October through March. Other interruptions in the record were due to pump intake sedimentation and instrument malfunctions.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 752 microsiemens, Sept. 15, 1989; minimum, 118 microsiemens, Sept. $15,1987$. WATER TEMPERATURE: Maximum, $33.5^{\circ} \mathrm{C}$, July 6,1999 ; minimum, $0.0^{\circ} \mathrm{C}$, many days during winters. DISSOLVED OXYGEN: Maximum, $19.6 \mathrm{mg} / \mathrm{L}$, Mar. 24, 1988; minimum, $0.8 \mathrm{mg} / \mathrm{L}$, July 26, 1986.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum $27.5^{\circ} \mathrm{C}$, June 11 , Aug. 10 ; minimum, $0.0^{\circ} \mathrm{C}$, many days during winter.
WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000


## SCHUYLKILL RIVER BASIN

## 01472104 SCHUYLKILL RIVER AT VINCENT DAM AT LINFIELD, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FEBRUARY |  |  | MARCH |  |  | APRIL |  |  | MAY |  |  |
| 1 | . 0 | . 0 | . 0 | 6.0 | 5.5 | 5.5 | 12.0 | 9.5 | 11.0 | --- | --- | --- |
| 2 | . 0 | . 0 | . 0 | 6.5 | 5.5 | 6.0 | 12.0 | 11.0 | 11.5 | --- | --- | --- |
| 3 | . 0 | . 0 | . 0 | 7.0 | 5.5 | 6.0 | 14.0 | 12.0 | 13.0 | 18.5 | 15.0 | 16.5 |
| 4 | . 0 | . 0 | . 0 | 7.5 | 5.5 | 6.5 | 14.0 | 13.0 | 14.0 | 19.5 | 16.5 | 18.0 |
| 5 | . 5 | . 0 | . 0 | 8.5 | 6.0 | 7.0 | 13.0 | 11.0 | 12.0 | 20.5 | 18.5 | 19.5 |
| 6 | . 5 | . 0 | . 0 | 9.0 | 6.5 | 7.5 | 12.5 | 10.0 | 11.0 | 22.5 | 19.0 | 20.5 |
| 7 | . 5 | . 0 | . 0 | 9.5 | 6.5 | 8.0 | 13.5 | 11.5 | 12.5 | 24.0 | 20.5 | 22.0 |
| 8 | 1.0 | . 0 | . 5 | 11.0 | 8.5 | 9.5 | 15.5 | 12.0 | 13.5 | 25.0 | 21.5 | 23.5 |
| 9 | 2.0 | . 0 | 1.0 | 11.5 | 10.0 | 11.0 | 14.0 | 11.0 | 12.0 | 25.5 | 22.5 | 24.0 |
| 10 | 3.0 | . 5 | 2.0 | 12.5 | 11.0 | 11.5 | 12.0 | 10.0 | 11.0 | - | - | --- |
| 11 | 4.0 | 2.5 | 3.0 | 11.5 | 9.5 | 10.5 | 11.0 | 10.5 | 11.0 | --- | --- | --- |
| 12 | 3.5 | 2.0 | 2.5 | 9.5 | 7.5 | 8.5 | 12.0 | 10.0 | 11.0 | --- | --- | --- |
| 13 | 2.0 | 1.0 | 1.5 | 8.5 | 6.5 | 7.5 | 12.5 | 9.5 | 11.0 | --- | --- | --- |
| 14 | 3.0 | 1.5 | 2.5 | 9.5 | 7.0 | 8.0 | 12.5 | 10.0 | 11.5 | --- | --- | --- |
| 15 | 3.5 | 2.0 | 2.5 | 10.5 | 8.0 | 9.0 | 12.5 | 11.5 | 12.0 | --- | --- | --- |
| 16 | 4.0 | 2.0 | 3.0 | 10.0 | 9.0 | 9.5 | 15.5 | 12.0 | 13.5 | 19.0 | 17.5 | 18.5 |
| 17 | 4.0 | 2.0 | 3.0 | 10.0 | 8.0 | 9.5 | 15.5 | 12.5 | 14.0 | 20.0 | 18.0 | 19.0 |
| 18 | 3.0 | 1.5 | 2.0 | 8.0 | 6.5 | 7.5 | 12.5 | 10.5 | 11.0 | 20.5 | 18.5 | 19.5 |
| 19 | 3.0 | 2.0 | 2.5 | 8.5 | 6.5 | 7.5 | 13.0 | 10.0 | 11.5 | 20.0 | 18.0 | 19.5 |
| 20 | 4.5 | 2.5 | 3.5 | 8.5 | 7.5 | 8.0 | 15.0 | 12.5 | 13.5 | 18.0 | 15.0 | 16.5 |
| 21 | 5.0 | 3.0 | 4.0 | 8.0 | 6.0 | 7.5 | 14.5 | 12.0 | 13.5 | 15.5 | 14.5 | 15.0 |
| 22 | 5.5 | 3.0 | 4.0 | 7.0 | 6.0 | 6.5 | 12.0 | 11.5 | 12.0 | 15.0 | 15.0 | 15.0 |
| 23 | 5.5 | 4.0 | 4.5 | 9.0 | 7.0 | 8.0 | 12.5 | 11.0 | 12.0 | 15.5 | 14.5 | 15.0 |
| 24 | 7.0 | 5.0 | 5.5 | 10.5 | 9.0 | 9.5 | 14.0 | 11.0 | 12.5 | 17.5 | 15.0 | 16.0 |
| 25 | 7.0 | 6.0 | 6.5 | 11.0 | 10.0 | 10.5 | 14.0 | 13.0 | 13.5 | 17.5 | 16.5 | 17.0 |
| 26 | 7.0 | 6.0 | 6.5 | 11.5 | 10.5 | 11.0 | 14.0 | 12.0 | 13.0 | 18.0 | 16.0 | 17.0 |
| 27 | 6.5 | 5.5 | 6.0 | 11.0 | 10.0 | 10.5 | 13.5 | 12.0 | 12.5 | 17.5 | 16.5 | 17.0 |
| 28 | 7.5 | 6.5 | 7.0 | 11.5 | 10.5 | 11.0 | 13.5 | 12.0 | 12.5 | 16.5 | 15.5 | 16.0 |
| 29 | 6.5 | 5.5 | 6.0 | 11.0 | 9.5 | 10.5 | 16.0 | 12.0 | 14.0 | 17.0 | 15.5 | 16.0 |
| 30 |  | --- | --- | 10.5 | 9.0 | 9.5 | 17.0 | 14.0 | 15.5 | 17.0 | 15.5 | 16.0 |
| 31 | --- | --- | --- | 11.0 | 9.0 | 10.0 | --- | --- | --- | 18.0 | 16.0 | 17.0 |
| MONTH | 7.5 | . 0 | 2.7 | 12.5 | 5.5 | 8.7 | 17.0 | 9.5 | 12.4 | 25.5 | 14.5 | 18.0 |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|  | JUNE |  |  | JULY |  |  | AUGUST |  |  | SEPTEMBER |  |  |
| 1 | 20.5 | 17.5 | 19.0 | 23.5 | 21.0 | 22.0 | 25.5 | 23.5 | 24.5 | 26.5 | 24.0 | 25.0 |
| 2 | 22.5 | 20.0 | 21.0 | 24.5 | 21.5 | 23.0 | 25.0 | 23.0 | 24.0 | 26.5 | 25.0 | 25.5 |
| 3 | 23.0 | 21.0 | 22.0 | 24.5 | 22.5 | 23.5 | 23.5 | 22.5 | 23.0 | 26.5 | 25.0 | 25.5 |
| 4 | 22.0 | 20.5 | 21.5 | 25.5 | 23.0 | 24.0 | 22.5 | 22.0 | 22.0 | 27.0 | 24.5 | 25.5 |
| 5 | 21.0 | 19.0 | 20.0 | 26.0 | 23.5 | 25.0 | 23.0 | 21.0 | 22.0 | 25.0 | 22.0 | 23.5 |
| 6 | 19.0 | 16.5 | 17.5 | 25.5 | 23.5 | 24.5 | 22.5 | 21.0 | 21.5 | 23.0 | 20.0 | 21.5 |
| 7 | 18.5 | 15.5 | 17.0 | 25.0 | 23.0 | 24.0 | 23.0 | 21.0 | 22.0 | 22.5 | 19.0 | 21.0 |
| 8 | 20.0 | 17.5 | 19.0 | 25.0 | 22.0 | 23.5 | 25.0 | 22.0 | 23.5 | 22.5 | 19.5 | 21.0 |
| 9 | 23.0 | 19.5 | 21.0 | 25.5 | 22.0 | 23.5 | 26.0 | 24.0 | 25.0 | 24.5 | 20.5 | 22.5 |
| 10 | 25.5 | 21.5 | 23.5 | 27.0 | 24.0 | 25.0 | 27.5 | 25.0 | 26.0 | 25.0 | 22.0 | 23.5 |
| 11 | 27.5 | 23.5 | 25.5 | 27.0 | 24.5 | 25.5 | 26.0 | 24.5 | 25.5 | 24.5 | 22.5 | 23.5 |
| 12 | 26.5 | 23.5 | 25.5 | 26.5 | 23.5 | 25.0 | 25.0 | 23.5 | 24.0 | 25.5 | 23.0 | 24.0 |
| 13 | 23.5 | 20.0 | 21.5 | 26.0 | 23.5 | 25.0 | 23.5 | 22.5 | 23.0 | 25.5 | 23.5 | 24.5 |
| 14 | 20.0 | 18.0 | 19.0 | --- | --- | --- | 22.5 | 21.0 | 21.5 | 23.5 | 21.5 | 22.5 |
| 15 | 18.5 | 17.5 | 18.0 | --- | --- | --- | 23.5 | 20.5 | 22.0 | 22.5 | 21.0 | 22.0 |
| 16 | 21.0 | 18.5 | 19.5 | - | --- | --- | 25.5 | 22.5 | 24.0 | 21.0 | 19.0 | 20.0 |
| 17 | 24.0 | 20.5 | 22.0 | --- | --- | --- | 25.0 | 22.5 | 23.5 | 20.5 | 17.5 | 19.0 |
| 18 |  |  |  | 26.5 | 23.0 | 24.5 | --- | --- | --- | 20.5 | 17.5 | 19.0 |
| 19 | --- | - | --- | 25.0 | 21.5 | 23.5 | -- | -- | -- | 19.0 | 18.5 | 19.0 |
| 20 | 23.5 | 20.0 | 21.5 | 24.0 | 21.0 | 22.0 | --- | --- | --- | 20.0 | 18.0 | 19.0 |
| 21 | 23.5 | 21.5 | 22.5 | 25.0 | 21.5 | 23.0 | 23.5 | 20.0 | 21.5 | 21.0 | 19.0 | 20.0 |
| 22 | 23.5 | 22.0 | 22.5 | 25.5 | 22.5 | 24.0 | 24.0 | 20.0 | 22.0 | 20.5 | 18.5 | 19.5 |
| 23 | 24.0 | 21.5 | 23.0 | 25.5 | 22.5 | 24.0 | 22.5 | 21.5 | 22.0 | 19.5 | 18.5 | 18.5 |
| 24 | 24.5 | 22.0 | 23.0 | 24.5 | 22.5 | 23.5 | 23.0 | 21.0 | 22.0 | 19.5 | 18.5 | 19.0 |
| 25 | 26.5 | 23.0 | 24.5 | 24.0 | 21.5 | 22.5 | 24.5 | 21.0 | 23.0 | 18.5 | 17.0 | 18.0 |
| 26 | 25.5 | 23.0 | 24.5 | 23.0 | 21.5 | 22.0 | 25.0 | 21.5 | 23.0 | 17.0 | 15.0 | 15.5 |
| 27 | 23.0 | 21.5 | 22.0 | 22.5 | 21.0 | 21.5 | 25.0 | 22.5 | 23.5 | 16.5 | 14.0 | 15.5 |
| 28 | 22.5 | 21.5 | 22.0 | 25.5 | 22.0 | 23.5 | 24.5 | 23.0 | 23.5 | 17.0 | 15.0 | 16.0 |
| 29 | 22.5 | 21.0 | 22.0 | 25.5 | 24.0 | 24.5 | 24.0 | 23.0 | 23.5 | 16.5 | 14.0 | 15.5 |
| 30 | 23.0 | 21.0 | 22.0 | 26.0 | 23.5 | 24.5 | 24.0 | 22.0 | 23.0 | 16.5 | 13.5 | 15.0 |
| 31 |  |  |  | 26.0 | 24.5 | 25.0 | 25.5 | 23.5 | 24.0 | 16.5 | 13.5 |  |
| MONTH | 27.5 | 15.5 | 21.5 | 27.0 | 21.0 | 23.8 | 27.5 | 20.0 | 23.1 | 27.0 | 13.5 | 20.6 |

## SCHUYLKILL RIVER BASIN

## 01472104 SCHUYLKILL RIVER AT VINCENT DAM AT LINFIELD, PA--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000


## SCHUYLKILL RIVER BASIN

01472104 SCHUYLKILL RIVER AT VINCENT DAM AT LINFIELD, PA--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | JUNE |  |  | JULY |  |  | AUGUST |  | SEPTEMBER |  |  |
| 1 | 8.2 | 7.5 | 7.9 | 8.0 | 7.7 | 7.8 | --- | --- | --- | 9.9 | 5.7 | 7.6 |
| 2 | 7.8 | 6.9 | 7.3 | 8.2 | 7.6 | 7.8 | --- | --- | -- | 8.9 | 5.8 | 7.2 |
| 3 | 7.9 | 6.5 | 7.2 | 8.0 | 7.4 | 7.6 | --- | --- | --- | 8.3 | 5.7 | 6.8 |
| 4 | 8.2 | 6.8 | 7.4 | 8.0 | 7.2 | 7.6 | --- | --- | --- | 8.5 | 5.8 | 7.0 |
| 5 | 8.5 | 7.1 | 7.8 | 8.3 | 7.1 | 7.7 | - | --- | - | 8.6 | 6.3 | 7.4 |
| 6 | 8.1 | 7.4 | 7.6 | 8.6 | 7.2 | 7.8 | --- | --- | --- | 8.8 | 6.9 | 7.8 |
| 7 | 8.1 | 7.3 | 7.7 | 8.6 | 7.2 | 7.9 | -- | - | -- | 8.7 | 7.2 | 7.9 |
| 8 | 8.6 | 7.8 | 8.1 | 9.0 | 7.5 | 8.2 | 7.4 | 6.7 | 7.1 | 8.5 | 6.6 | 7.5 |
| 9 | 8.5 | 7.4 | 7.9 | 9.0 | 7.5 | 8.2 | 7.0 | 6.4 | 6.7 | 8.4 | 6.5 | 7.4 |
| 10 | --- | --- | --- | 8.9 | 7.0 | 7.9 | 7.0 | 6.0 | 6.5 | --- | --- | - |
| 11 | --- | --- | --- | --- | --- | --- | 7.2 | 6.2 | 6.6 | --- | --- | - |
| 12 | --- | --- | --- | --- | --- | --- | 7.3 | 6.4 | 6.8 | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | - |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | -- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | 7.5 | 7.1 | 7.3 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 7.9 | 7.3 | 7.6 | 8.0 | 6.1 | 7.0 | --- | --- | --- | --- | --- | -- |
| 21 | 8.1 | 7.0 | 7.4 | 8.0 | 6.1 | 7.0 | 9.7 | 7.6 | 8.6 | --- | --- | - |
| 22 | 7.5 | 6.4 | 6.8 | 7.8 | 6.0 | 6.8 | 10.1 | 7.6 | 8.8 | --- | --- | --- |
| 23 | 7.3 | 6.6 | 6.9 | 8.1 | 5.9 | 6.9 | 9.3 | 7.5 | 8.4 | --- | --- | --- |
| 24 | 8.3 | 7.2 | 7.7 | 7.5 | 6.1 | 6.8 | 8.6 | 7.6 | 8.1 | --- | --- | --- |
| 25 | 8.5 | 7.4 | 7.9 | 8.3 | 6.5 | 7.3 | 10.2 | 7.5 | 9.0 | --- | --- | --- |
| 26 | 7.7 | 6.7 | 7.3 | 7.5 | 6.5 | 6.9 | 10.7 | 7.2 | 8.8 | --- | --- | --- |
| 27 | --- | --- | --- | --- | 6.6 | --- | 11.1 | 7.0 | 8.9 | --- | --- | --- |
| 28 | --- | - | --- | --- | --- | - | 10.1 | 6.8 | 8.4 | --- | --- | - |
| 29 | --- | --- | --- | --- | --- | --- | 9.5 | 6.9 | 8.1 | --- | --- | --- |
| 30 | 7.9 | 7.6 | 7.7 | --- | --- | --- | 10.2 | 6.2 | 8.0 | --- | --- | -- |
| 31 | --- | --- | - | --- | --- | -- | 9.5 | 6.1 | 7.8 | --- | --- | --- |
| MONTH | 8.6 | 6.4 | 7.5 | 9.0 | 5.9 | 7.5 | 11.1 | 6.0 | 7.9 | 9.9 | 5.7 | 7.4 |

## SCHUYLKILL RIVER BASIN

## 01472104 SCHUYLKILL RIVER AT VINCENT DAM AT LINFIELD, PA--Continued

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000


