

## SCHUYLKILL RIVER BASIN

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

**LOCATION**--Lat 40°12'22", long 75°33'57", 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 mi<sup>2</sup>.

**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**--Dissolved oxygen collection discontinued October through March. Other interruptions in the record were due to pump intake out of water 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°C, July 6, 1999; minimum, 0.0°C, many days during winters.

DISSOLVED OXYGEN: Maximum, 19.6 mg/L, Mar. 24, 1988; minimum, 0.8 mg/L, July 26, 1986.

**EXTREMES FOR CURRENT YEAR**--

WATER TEMPERATURE: Maximum 33.5°C, July 6; minimum, 0.0°C, Dec. 27, Jan. 1-3, 5-12, 14-16.

## WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.0	19.0	20.5	12.5	10.5	11.5	10.5	8.5	9.5	1.0	.0	.5
2	19.0	16.5	18.0	12.5	10.5	11.5	9.5	7.5	8.5	.0	.0	.0
3	17.5	15.5	16.0	11.5	9.5	10.5	10.5	8.0	9.0	1.0	.0	.5
4	15.5	14.5	15.0	11.0	9.0	10.0	12.0	9.5	10.5	2.0	.5	1.0
5	17.0	14.5	15.5	9.0	7.5	8.5	12.5	11.5	12.0	.5	.0	.0
6	17.5	15.0	16.0	8.5	7.0	8.0	12.5	11.0	12.0	.0	.0	.0
7	17.0	16.0	16.5	9.0	7.0	8.0	13.5	11.5	12.5	.0	.0	.0
8	17.5	16.5	17.0	9.5	8.5	9.0	13.0	11.5	12.0	.0	.0	.0
9	17.5	16.5	17.0	10.5	9.0	9.5	11.5	9.0	10.5	.0	.0	.0
10	16.5	16.0	16.0	9.5	8.5	8.5	9.0	7.5	8.0	.0	.0	.0
11	17.0	15.5	16.0	12.0	9.5	10.5	8.0	6.5	7.5	.5	.0	.0
12	17.0	16.0	16.5	11.0	9.0	10.0	6.5	5.5	6.0	2.0	.0	1.0
13	18.0	16.5	17.0	10.0	8.5	9.0	6.5	6.0	6.5	3.5	1.5	2.5
14	18.0	17.0	17.5	10.0	8.0	9.0	6.5	5.5	6.0	2.5	.0	1.0
15	17.0	15.5	16.0	10.5	8.5	9.5	6.0	4.0	5.0	.5	.0	.0
16	16.0	14.0	15.0	10.0	8.5	9.0	5.0	4.0	4.5	2.0	.0	1.0
17	16.0	14.0	15.0	11.0	9.5	10.0	5.5	4.5	5.0	3.0	1.0	2.0
18	17.0	14.5	15.5	10.5	9.0	9.5	5.5	4.0	4.5	3.0	1.5	2.5
19	18.0	16.0	17.0	9.0	7.5	8.5	5.5	3.5	4.5	2.0	.5	1.5
20	17.0	15.0	16.0	10.5	9.0	9.5	6.5	5.0	5.5	2.0	1.5	2.0
21	15.5	13.5	14.5	10.0	8.5	9.0	8.0	6.5	7.0	2.5	2.0	2.5
22	13.5	12.0	12.5	9.0	7.5	8.5	9.0	5.5	8.0	3.5	2.5	3.0
23	13.0	10.5	12.0	8.5	6.5	7.5	5.5	3.0	4.0	4.5	3.5	4.0
24	---	---	---	9.5	7.5	8.5	3.0	2.0	2.5	6.0	4.5	5.5
25	---	---	---	8.5	7.0	8.0	2.5	1.0	2.0	5.0	4.0	4.0
26	---	---	---	9.0	7.5	8.0	1.5	.5	1.0	4.5	4.0	4.0
27	---	---	---	9.0	8.0	8.5	1.5	.0	1.0	4.5	3.0	4.0
28	---	---	---	8.5	7.0	8.0	2.5	1.0	2.0	5.0	4.5	5.0
29	14.0	12.5	13.5	9.0	7.0	8.0	3.5	2.5	3.0	5.5	5.0	5.5
30	13.5	11.5	12.5	9.5	8.0	9.0	3.5	1.0	3.0	5.0	4.0	4.5
31	13.0	10.5	11.5	---	---	---	1.0	.5	1.0	4.5	3.0	3.5
MONTH	21.0	10.5	15.6	12.5	6.5	9.1	13.5	.0	6.3	6.0	.0	2.0



## SCHUYLKILL RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.8	7.2	9.0	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	8.2	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	10.8	7.2	9.0	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	13.3	10.9	12.0	---	---	---
2	---	---	---	---	---	---	14.4	10.4	12.2	---	---	---
3	---	---	---	---	---	---	15.1	10.6	12.5	---	---	---
4	---	---	---	---	---	---	13.7	10.2	11.7	8.5	6.9	7.6
5	---	---	---	---	---	---	13.9	9.6	11.5	8.2	6.9	7.5
6	---	---	---	---	---	---	13.0	10.4	11.5	7.5	6.5	7.0
7	---	---	---	---	---	---	12.3	10.2	11.2	7.8	6.7	7.1
8	---	---	---	---	---	---	11.2	9.2	10.3	7.8	6.5	7.1
9	---	---	---	---	---	---	9.2	7.8	8.2	7.7	6.2	6.9
10	---	---	---	---	---	---	8.7	7.7	8.2	8.7	6.6	7.6
11	---	---	---	---	---	---	8.8	8.1	8.4	8.6	6.6	7.6
12	---	---	---	---	---	---	10.1	8.8	9.4	8.7	6.4	7.5
13	---	---	---	---	---	---	10.6	9.4	9.9	7.2	5.9	6.6
14	---	---	---	---	---	---	10.2	9.3	9.8	9.3	6.3	7.7
15	---	---	---	---	---	---	10.1	8.5	9.2	9.4	6.4	7.8
16	---	---	---	---	---	---	9.0	7.2	7.8	9.3	6.1	7.6
17	---	---	---	---	---	---	9.1	7.2	8.2	9.0	6.4	7.6
18	---	---	---	---	---	---	10.7	8.6	9.4	8.4	6.1	7.1
19	---	---	---	---	---	---	11.2	9.3	10.2	6.6	5.1	5.6
20	---	---	---	---	---	---	10.8	9.1	9.9	7.4	5.1	6.1
21	---	---	---	---	---	---	11.7	8.7	10.2	7.2	5.4	6.2
22	---	---	---	---	---	---	11.8	9.9	10.7	7.1	5.0	6.0
23	---	---	---	---	---	---	10.5	8.8	9.5	---	---	---
24	---	---	---	---	---	---	11.1	8.8	9.8	---	---	---
25	---	---	---	---	---	---	11.6	9.3	10.3	---	---	---
26	---	---	---	14.9	11.4	13.0	11.1	9.0	9.9	---	---	---
27	---	---	---	15.2	12.1	13.5	10.1	7.9	8.9	---	---	---
28	---	---	---	14.2	11.7	12.9	10.3	8.1	8.9	---	---	---
29	---	---	---	16.4	11.7	13.7	---	---	---	---	---	---
30	---	---	---	16.4	11.7	13.8	---	---	---	---	---	---
31	---	---	---	16.1	11.5	13.6	---	---	---	---	---	---
MONTH	---	---	---	16.4	11.4	13.4	15.1	7.2	10.0	9.4	5.0	7.1

## SCHUYLKILL RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	7.2	4.3	5.7	---	---	---	---	---	---
2	---	---	---	7.2	4.5	5.8	---	---	---	---	---	---
3	7.1	4.7	5.8	7.3	4.2	5.6	---	---	---	---	---	---
4	7.6	5.2	6.3	7.5	4.0	5.7	---	---	---	---	---	---
5	8.1	5.5	6.7	7.8	4.0	5.9	---	---	---	---	---	---
6	8.1	5.7	6.8	8.1	3.9	5.9	---	---	---	---	---	---
7	7.8	5.4	6.6	8.1	3.8	6.1	---	---	---	---	---	---
8	7.7	4.9	6.3	7.7	4.4	6.0	---	---	---	---	---	---
9	8.2	4.9	6.5	7.8	4.7	6.2	---	---	---	---	---	---
10	8.0	5.3	6.6	7.6	4.9	6.9	---	---	---	---	---	---
11	8.8	5.8	7.2	7.5	5.1	7.0	---	---	---	---	---	---
12	8.3	6.1	7.2	7.5	6.6	7.3	---	---	---	---	---	---
13	7.6	5.6	6.7	7.9	7.3	7.6	---	---	---	---	---	---
14	8.5	5.2	6.6	8.1	6.0	7.6	---	---	---	---	---	---
15	8.4	5.4	7.0	8.7	6.0	7.3	---	---	---	---	---	---
16	8.3	5.2	6.6	8.6	5.9	7.2	---	---	---	---	---	---
17	6.8	5.2	6.0	8.6	5.6	7.1	---	---	---	---	---	---
18	8.4	5.8	7.0	8.6	5.3	6.9	---	---	---	---	---	---
19	8.5	5.9	7.1	8.6	5.2	6.9	---	---	---	---	---	---
20	8.8	6.0	7.2	8.2	5.2	6.6	---	---	---	---	---	---
21	8.7	6.1	7.3	8.5	5.5	7.0	---	---	---	---	---	---
22	8.7	6.4	7.5	---	---	---	---	---	---	---	---	---
23	8.4	5.6	7.1	---	---	---	---	---	---	---	---	---
24	8.4	5.4	6.9	---	---	---	---	---	---	---	---	---
25	7.5	5.2	6.6	---	---	---	---	---	---	---	---	---
26	9.4	5.4	7.6	---	---	---	---	---	---	---	---	---
27	9.7	5.7	7.8	---	---	---	---	---	---	---	---	---
28	8.6	4.8	6.9	---	---	---	---	---	---	---	---	---
29	7.8	4.1	6.0	---	---	---	---	---	---	---	---	---
30	7.4	4.4	5.8	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	9.7	4.1	6.8	8.7	3.8	6.6	---	---	---	---	---	---