

## 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**--Water temperature records rated good. Dissolved oxygen records rated fair. 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°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, 28.5°C, July 5, 6; minimum, 0.0°C, many days during winter.

## WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.0	15.0	15.5	12.5	11.5	12.0	7.5	6.5	7.0	5.0	4.5	4.5
2	15.0	14.0	14.5	13.5	12.0	13.0	6.5	5.5	6.0	5.5	4.5	5.0
3	14.0	12.5	13.5	14.5	13.0	13.5	5.5	4.5	4.5	6.5	5.5	6.0
4	13.5	12.5	13.0	15.0	13.5	14.5	4.5	3.5	4.0	7.5	6.5	7.0
5	13.0	11.5	12.5	14.5	14.5	14.5	4.0	3.0	4.0	7.0	6.5	7.0
6	13.0	11.5	12.5	14.5	14.0	14.0	3.0	2.5	3.0	6.5	4.5	5.5
7	13.0	11.5	12.5	14.0	13.0	14.0	3.0	2.0	2.5	4.5	2.0	3.0
8	14.0	12.5	13.0	13.0	10.5	12.0	2.5	2.0	2.5	2.0	1.5	1.5
9	15.0	13.5	14.5	10.5	8.5	9.5	3.0	2.0	2.5	2.0	1.0	1.5
10	15.0	14.0	14.5	8.5	7.0	8.0	5.0	3.0	4.0	1.0	0.0	0.0
11	16.5	14.5	15.0	8.0	7.0	7.5	7.0	5.0	6.0	0.0	0.0	0.0
12	16.5	15.0	16.0	9.5	8.0	8.5	6.5	5.5	6.0	1.5	0.0	0.5
13	17.0	15.0	16.0	10.0	8.0	9.5	5.5	4.5	5.0	2.5	1.5	2.0
14	16.0	14.5	15.0	8.0	6.5	7.5	4.5	4.0	4.5	2.0	1.0	1.0
15	15.5	14.0	15.0	8.0	7.0	7.5	4.5	4.0	4.0	1.0	0.0	0.0
16	14.0	13.0	14.0	8.5	7.5	8.0	4.0	4.0	4.0	0.0	0.0	0.0
17	14.0	13.0	13.5	9.5	8.5	9.0	5.0	4.0	4.5	0.0	0.0	0.0
18	13.5	12.5	13.0	9.0	8.5	9.0	4.5	4.0	4.0	0.5	0.0	0.0
19	13.0	12.0	12.5	12.0	9.0	10.5	4.0	4.0	4.0	1.0	0.0	0.5
20	13.0	11.5	12.5	12.0	10.5	11.5	4.0	3.5	4.0	1.0	0.0	0.0
21	13.5	12.0	13.0	10.5	9.0	9.5	4.0	3.5	3.5	0.5	0.0	0.0
22	13.5	12.0	13.0	10.0	9.0	9.5	4.0	3.0	3.5	1.0	0.0	0.5
23	12.0	10.0	11.0	9.5	8.5	9.0	5.5	4.0	4.5	0.5	0.0	0.0
24	10.5	9.0	9.5	10.0	9.0	9.5	6.5	5.0	6.0	0.0	0.0	0.0
25	10.5	8.5	9.5	10.0	8.0	9.0	6.5	5.0	5.5	0.0	0.0	0.0
26	13.0	10.5	11.5	8.0	7.0	7.5	5.0	4.5	4.5	0.0	0.0	0.0
27	14.5	13.0	13.5	8.0	7.0	7.5	4.5	4.0	4.5	0.0	0.0	0.0
28	13.5	12.0	12.5	9.5	8.0	8.5	4.5	4.0	4.5	0.5	0.0	0.0
29	12.0	11.5	12.0	9.5	7.5	8.5	4.5	4.0	4.0	0.5	0.0	0.0
30	11.5	11.0	11.5	7.5	7.0	7.5	5.0	4.5	4.5	0.5	0.0	0.0
31	11.5	11.0	11.5	---	---	---	5.5	4.5	5.0	0.5	0.0	0.0
MONTH	17.0	8.5	13.1	15.0	6.5	10.0	7.5	2.0	4.4	7.5	0.0	1.5



## SCHUYLKILL RIVER BASIN

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

## OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	<b>FEBRUARY</b>			<b>MARCH</b>			<b>APRIL</b>			<b>MAY</b>		
1	---	---	---	---	---	---	12.2	9.4	10.7	9.5	8.2	8.9
2	---	---	---	---	---	---	10.7	9.3	9.9	8.7	7.7	8.2
3	---	---	---	---	---	---	12.3	9.5	10.7	8.2	7.4	7.7
4	---	---	---	---	---	---	11.4	10.1	10.8	8.9	7.6	8.3
5	---	---	---	---	---	---	13.8	10.5	12.0	9.0	8.5	8.7
6	---	---	---	---	---	---	14.1	11.6	12.8	9.3	8.3	8.8
7	---	---	---	---	---	---	13.3	10.6	12.0	---	---	---
8	---	---	---	---	---	---	11.3	9.7	10.5	9.3	8.0	8.6
9	---	---	---	---	---	---	11.9	9.2	10.4	9.5	8.9	9.2
10	---	---	---	---	---	---	11.8	9.6	10.5	9.1	7.9	8.7
11	---	---	---	---	---	---	9.8	8.9	9.3	8.7	7.9	8.3
12	---	---	---	---	---	---	10.2	9.0	9.6	8.4	7.9	8.2
13	---	---	---	---	---	---	10.0	9.6	9.8	---	---	---
14	---	---	---	---	---	---	9.7	9.4	9.6	---	---	---
15	---	---	---	---	---	---	10.3	9.6	10.0	---	---	---
16	---	---	---	---	---	---	10.5	10.0	10.2	---	---	---
17	---	---	---	---	---	---	10.2	9.6	10	---	---	---
18	---	---	---	---	---	---	9.8	8.9	9.4	---	---	---
19	---	---	---	---	---	---	9.3	8.5	8.8	7.6	7.1	7.3
20	---	---	---	---	---	---	---	---	---	7.8	7.1	7.5
21	---	---	---	---	---	---	---	---	---	7.7	7.3	7.5
22	---	---	---	---	---	---	---	---	---	7.6	7.0	7.4
23	---	---	---	---	---	---	---	---	---	7.1	6.4	6.8
24	---	---	---	---	---	---	9.7	7.8	8.7	7.0	6.1	6.5
25	---	---	---	---	---	---	9.6	8.2	8.9	7.0	5.9	6.4
26	---	---	---	---	---	---	9.0	8.5	8.7	6.6	5.8	6.2
27	---	---	---	---	---	---	8.9	8.5	8.8	6.2	5.4	5.9
28	---	---	---	---	---	---	10.3	8.8	9.5	6.6	5.5	6.2
29	---	---	---	---	---	---	10.4	9.1	9.9	7.5	6.5	7.1
30	---	---	---	---	---	---	9.9	8.8	9.3	8.0	7.2	7.7
31	---	---	---	12.1	9.6	10.9	---	---	---	7.6	7.3	7.5
MONTH	---	---	---	12.1	9.6	10.9	14.1	7.8	10.0	9.5	5.4	7.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	<b>JUNE</b>			<b>JULY</b>			<b>AUGUST</b>			<b>SEPTEMBER</b>		
1	7.6	7.3	7.4	---	---	---	---	---	---	---	---	---
2	8.2	7.3	7.7	---	---	---	---	---	---	9.3	7.1	8.1
3	8.1	7.1	7.5	8.4	6.4	7.4	7.7	7.6	7.6	9.1	6.9	7.8
4	8.6	6.9	7.6	8.7	6.4	7.5	7.6	7.4	7.5	---	---	---
5	7.6	7.0	7.3	8.7	6.3	7.4	7.4	7.0	7.3	---	---	---
6	7.7	7.2	7.4	8.6	5.9	7.2	8.1	7.4	7.8	---	---	---
7	8.0	7.6	7.8	8.4	5.9	7.0	8.7	8.1	8.3	---	---	---
8	7.6	7.3	7.5	8.2	5.4	6.8	9.1	8.5	8.7	---	---	---
9	7.4	6.8	7.2	8.5	5.3	7.0	9.1	8.3	8.7	---	---	---
10	7.0	6.1	6.6	9.0	6.3	7.5	9.5	8.0	8.6	---	---	---
11	6.9	6.0	6.5	8.9	6.1	7.4	9.6	7.8	8.6	7.9	6.7	7.3
12	7.8	6.7	7.2	---	---	---	10.2	7.6	8.7	---	---	---
13	7.9	7.1	7.5	---	---	---	---	---	---	---	---	---
14	8.1	7.3	7.6	---	---	---	---	---	---	8.4	7.3	7.8
15	7.5	6.6	7.2	---	---	---	---	---	---	8.6	7.4	8.0
16	6.6	5.4	5.9	7.7	7.5	7.6	---	---	---	8.8	7.6	8.2
17	6.5	5.4	6.0	7.6	7.5	7.6	8.3	8.0	8.1	8.8	7.6	8.1
18	---	---	---	7.6	7.4	7.5	8.2	7.7	8.0	---	---	---
19	---	---	---	7.9	6.8	7.7	8.1	7.0	7.7	---	---	---
20	---	---	---	7.9	7.6	7.8	8.1	7.4	7.7	---	---	---
21	---	---	---	7.8	7.6	7.7	7.6	6.8	7.2	---	---	---
22	7.3	6.8	7.1	7.7	7.3	7.5	---	---	---	---	---	---
23	6.8	5.8	6.4	7.4	7.2	7.3	---	---	---	9.3	9.1	9.2
24	7.0	5.8	6.5	7.4	6.9	7.2	7.9	7.5	7.7	9.1	9.0	9.0
25	6.8	5.9	6.4	7.9	7.3	7.6	8.0	7.5	7.7	9.2	8.9	9.0
26	---	---	---	8.4	7.8	8.1	8.1	7.4	7.7	9.2	8.8	9.0
27	---	---	---	8.1	7.4	7.7	8.2	7.5	7.7	9.4	9.0	9.1
28	---	---	---	---	---	---	8.4	7.2	7.7	9.0	8.1	8.7
29	---	---	---	---	---	---	8.6	7.1	7.7	---	---	---
30	---	---	---	7.9	7.6	7.7	8.5	6.8	7.5	---	---	---
31	---	---	---	8.0	7.6	7.8	---	---	---	---	---	---
MONTH	8.6	5.4	7.1	9.0	5.3	7.5	10.2	6.8	7.9	9.4	6.7	8.4

## SCHUYLKILL RIVER BASIN

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

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Sample loc- ation, cross section ft from rt bank (72103)	Sam- pling depth, feet (00003)	Dis- solved oxygen, mg/L (00300)	Temper- ature, water, deg C (00010)
JUL							
27...	1411	1028	1028	380	.00	--	--
27...	1412	1028	1028	365	3.50	8.3	21.8
27...	1413	1028	1028	365	1.00	8.2	21.8
27...	1417	1028	1028	315	5.00	8.2	21.8
27...	1418	1028	1028	315	1.00	8.2	22.2
27...	1420	1028	1028	270	5.00	8.2	21.8
27...	1421	1028	1028	270	1.00	8.2	22.0
27...	1422	1028	1028	225	5.00	8.2	21.8
27...	1423	1028	1028	225	1.00	8.2	21.9
27...	1425	1028	1028	180	3.00	8.2	21.8
27...	1426	1028	1028	180	1.00	8.2	22.0
27...	1429	1028	1028	150	3.00	8.3	21.8
27...	1430	1028	1028	150	1.00	8.3	21.9
27...	1433	1028	1028	90	5.00	8.3	21.8
27...	1434	1028	1028	90	1.00	8.3	21.8
27...	1442	1028	1028	75	5.00	8.2	21.7
27...	1443	1028	1028	75	1.00	8.2	21.8