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^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 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 32.0°C, Aug. 9; minimum, 0.0°C, many days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	14.5	15.5	11.5	9.5	10.5	6.5	5.0	6.0	.5	.0	.0
2	18.0	15.0	16.0	11.5	9.0	10.5	5.0	3.5	4.5	.5	.0	.0
3	19.0	16.0	17.5	11.5	9.0	10.5	3.5	2.0	3.0	.0	.0	.0
4	19.5	17.0	18.5	12.5	10.5	11.5	3.0	1.0	2.0	.5	.0	.0
5	18.5	17.5	18.0	11.5	10.0	10.5	3.0	1.5	2.0	.0	.0	.0
6	18.0	17.5	17.5	10.5	8.5	9.5	2.0	1.0	1.5	1.0	.0	.5
7	17.5	15.5	16.5	10.0	8.0	9.0	2.0	1.0	1.5	1.5	.5	1.0
8	15.5	13.5	14.5	10.5	8.5	9.5	2.5	1.0	2.0	2.0	1.5	1.5
9	13.5	12.0	12.5	12.0	10.5	11.0	3.0	1.5	2.0	2.5	1.0	2.0
10	12.5	11.5	12.0	13.0	12.0	12.5	2.5	1.5	2.0	1.5	.5	1.0
11	13.5	11.0	12.5	12.5	11.5	12.0	3.5	2.5	3.0	1.5	.0	1.0
12	15.0	12.0	13.5	11.5	10.5	11.0	5.0	3.0	4.0	2.0	.5	1.5
13	15.0	12.5	14.0	11.5	10.5	11.0	3.0	1.5	2.5	2.0	.5	1.0
14	16.5	13.5	14.5	11.0	9.5	10.5	3.5	2.0	2.5	2.0	.5	1.5
15	16.5	14.0	15.5	9.5	8.0	9.0	3.0	2.5	3.0	2.5	2.0	2.5
16	16.0	15.0	15.5	8.5	7.5	8.0	3.5	2.5	3.0	3.0	2.5	3.0
17	15.5	14.5	15.0	9.0	7.5	8.0	9.5	3.5	7.0	3.0	2.0	2.5
18	15.0	14.5	14.5	8.0	6.5	7.0	7.0	4.0	5.0	2.5	2.5	2.5
19	15.5	13.5	14.5	6.5	5.0	6.0	4.0	3.5	3.5	2.5	2.0	2.5
20	14.5	12.5	14.0	5.5	4.0	5.0	3.5	2.5	3.0	3.0	2.0	2.5
21	15.5	13.0	14.0	5.0	3.0	4.0	2.5	2.0	2.0	2.5	1.0	1.5
22	15.5	13.5	14.5	3.5	2.0	2.5	2.5	1.0	2.0	1.5	.0	1.0
23	14.5	12.0	13.5	3.0	1.0	2.0	1.0	.0	.5	1.0	.0	.5
24	14.0	12.0	13.0	3.0	1.5	2.0	.5	.0	.0	1.5	.0	1.0
25	15.5	12.5	14.0	2.5	1.5	2.0	.0	.0	.0	2.0	.5	1.5
26	15.5	14.0	14.5	6.0	2.5	4.5	.0	.0	.0	1.5	.5	1.0
27	15.5	13.5	14.5	7.0	5.5	6.0	.0	.0	.0	2.5	1.0	1.5
28	15.5	13.0	14.5	7.5	6.5	7.0	.0	.0	.0	2.5	1.0	2.0
29	13.0	10.5	12.0	7.0	6.0	6.5	.0	.0	.0	2.5	1.0	2.0
30	11.5	9.5	10.5	6.5	6.5	6.5	.0	.0	.0	3.0	2.0	2.5
31	11.0	9.0	10.0	---	---	---	.0	.0	.0	3.5	2.0	2.5
MONTH	19.5	9.0	14.4	13.0	1.0	7.8	9.5	.0	2.2	3.5	.0	1.4

SCHUYLKILL RIVER BASIN

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	2.5	3.5	5.5	4.0	4.5	7.0	6.5	6.5	19.0	15.5	17.0
2	4.0	3.5	4.0	5.5	4.5	5.0	7.5	6.5	7.0	20.5	17.0	19.0
3	3.5	2.5	3.0	6.0	5.0	5.5	9.0	6.5	8.0	21.5	18.5	20.0
4	3.0	2.0	2.5	5.5	4.0	5.0	10.5	8.0	9.0	23.0	20.0	21.5
5	3.0	.5	1.5	4.0	3.0	3.5	11.0	8.5	10.0	22.0	20.5	21.5
6	3.0	1.0	2.5	3.5	2.5	3.0	11.0	9.5	10.0	20.5	18.0	19.5
7	4.5	3.0	4.0	5.5	3.0	4.0	10.0	9.0	9.5	19.5	17.0	18.5
8	4.0	3.0	3.5	6.0	4.5	5.5	9.5	8.5	9.0	19.5	16.5	18.0
9	4.5	3.5	4.0	6.0	5.0	5.5	12.5	9.0	10.5	20.0	17.5	18.5
10	5.5	4.5	5.0	6.0	4.0	5.0	14.0	12.5	13.0	21.5	18.0	19.5
11	4.5	3.0	3.5	6.0	4.5	5.5	14.0	12.0	12.5	22.5	19.0	20.5
12	3.0	2.0	2.5	6.5	4.5	5.5	12.0	11.0	11.5	22.5	20.5	21.5
13	4.5	3.0	3.5	6.5	5.5	6.0	14.0	11.5	12.5	21.5	19.0	20.0
14	4.5	4.0	4.5	6.5	5.5	6.0	15.0	12.5	13.5	20.0	17.5	19.0
15	5.5	4.5	5.0	6.0	5.5	6.0	14.5	12.5	14.0	20.0	16.5	18.5
16	5.0	5.0	5.0	7.0	5.5	6.5	14.0	12.5	13.0	20.5	17.0	18.5
17	5.5	4.0	5.0	6.5	6.5	6.5	12.5	11.0	12.0	18.5	16.5	17.5
18	4.0	2.5	3.0	7.0	5.5	6.5	11.0	9.5	10.5	16.5	16.0	16.5
19	3.5	2.0	3.0	7.5	5.5	6.5	11.5	9.0	10.5	20.0	16.0	17.5
20	4.5	3.0	3.5	8.0	6.0	7.0	11.5	10.0	11.0	19.0	18.0	18.5
21	5.5	4.5	5.0	7.5	6.5	7.0	12.5	10.5	11.5	18.0	15.5	16.5
22	4.5	1.5	2.5	7.0	6.5	6.5	15.0	12.0	13.5	16.5	15.5	16.0
23	3.0	1.0	2.0	8.0	6.0	7.0	18.0	14.5	16.0	18.5	16.5	17.5
24	3.5	2.0	2.5	7.5	6.5	7.0	19.0	16.5	18.0	20.5	18.0	19.0
25	3.5	3.0	3.5	7.5	5.5	6.5	18.0	15.0	16.0	20.0	18.5	19.5
26	5.5	3.5	4.5	7.5	6.0	6.5	15.5	13.0	14.5	18.5	17.0	17.5
27	5.5	4.0	5.0	7.0	5.0	6.0	16.5	13.5	15.0	18.0	16.0	16.5
28	6.0	4.5	5.5	7.0	4.5	6.0	17.0	15.0	16.0	19.5	17.0	18.0
29	---	---	---	7.0	6.0	6.5	16.5	14.0	15.5	19.5	18.0	19.0
30	---	---	---	6.5	5.5	6.0	17.5	14.0	15.5	20.0	18.0	19.0
31	---	---	---	6.5	5.5	6.0	---	---	---	19.5	16.5	18.0
MONTH	6.0	.5	3.7	8.0	2.5	5.8	19.0	6.5	12.2	23.0	15.5	18.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	16.5	17.5	27.5	26.0	26.5	27.0	23.0	25.0	27.0	25.0	26.0
2	18.0	16.0	17.0	26.0	22.5	24.0	28.0	24.0	26.0	25.5	22.5	24.0
3	19.0	17.0	18.0	24.0	21.5	23.0	28.0	25.0	26.0	25.5	22.0	23.5
4	20.0	17.0	18.5	24.5	22.0	23.0	27.5	25.5	26.5	25.5	23.0	24.0
5	22.0	18.5	20.0	24.5	23.0	23.5	28.5	25.5	26.5	25.0	23.0	24.0
6	21.5	20.0	20.5	24.5	22.5	23.5	29.5	26.0	27.5	24.5	22.0	23.0
7	23.0	20.0	21.0	25.0	21.5	23.5	30.5	27.0	28.5	26.0	21.5	23.5
8	23.5	20.5	22.0	24.0	22.5	23.5	31.0	27.5	29.0	26.5	22.0	24.0
9	23.5	20.0	22.0	25.5	22.5	24.0	32.0	27.5	29.5	27.0	22.5	24.5
10	23.5	20.5	22.0	26.5	24.0	25.0	31.0	28.5	29.5	26.0	24.0	24.5
11	25.0	21.5	23.0	26.5	24.0	25.0	28.5	24.0	26.5	25.5	22.0	24.0
12	26.5	22.5	24.5	26.0	23.0	24.5	25.0	23.0	24.0	25.0	21.0	23.0
13	27.0	24.0	25.5	25.0	22.5	24.0	26.5	23.5	24.5	25.0	21.5	23.0
14	26.5	25.0	25.5	25.0	22.0	23.5	28.0	24.5	26.0	24.0	20.5	22.0
15	26.0	24.5	25.0	26.0	22.0	24.0	28.0	24.5	26.5	21.5	18.5	20.0
16	25.0	24.0	24.5	26.5	23.0	25.0	28.5	24.5	26.5	22.0	18.0	20.0
17	24.5	23.0	24.0	27.5	24.0	25.5	27.5	25.0	26.0	22.0	18.5	20.0
18	26.0	23.0	24.5	25.5	24.5	25.0	27.5	24.0	26.0	21.0	19.0	20.0
19	27.5	24.0	25.5	26.5	23.5	25.0	26.5	24.0	25.5	23.0	18.5	20.5
20	28.0	24.5	26.0	27.5	23.5	25.5	28.5	24.5	26.0	21.0	20.0	20.5
21	26.5	25.0	26.0	27.5	23.0	25.5	28.0	24.5	26.5	22.5	20.0	21.0
22	26.0	24.0	25.0	28.5	24.0	26.0	28.5	24.0	26.0	23.0	21.0	22.0
23	24.0	20.5	22.0	29.0	24.5	26.5	26.5	24.5	25.5	24.0	20.5	22.5
24	22.0	21.0	21.5	30.5	26.0	28.0	27.0	23.0	25.0	23.0	21.5	22.5
25	23.5	20.5	22.0	31.0	27.5	29.0	28.5	24.0	26.0	22.5	19.5	21.0
26	25.0	22.0	23.5	29.0	24.0	26.0	27.5	23.5	25.5	19.5	18.0	18.5
27	26.0	23.0	24.5	25.0	22.5	24.0	27.5	24.5	26.0	18.0	17.0	17.5
28	27.0	24.5	25.5	25.0	23.0	24.0	28.5	24.5	26.5	17.5	16.0	16.5
29	28.0	25.0	26.5	24.0	22.0	23.0	28.0	25.0	26.5	17.5	15.5	16.5
30	28.5	26.0	27.0	24.5	21.5	22.5	26.5	24.5	25.5	16.0	14.5	15.5
31	---	---	---	25.5	22.0	24.0	28.0	24.5	26.0	---	---	---
MONTH	28.5	16.0	23.0	31.0	21.5	24.7	32.0	23.0	26.3	27.0	14.5	21.6
YEAR	32.0	.0	13.5									

SCHUYLKILL RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	10.3	8.2	9.2
2	---	---	---	---	---	---	---	---	---	9.3	7.4	8.2
3	---	---	---	---	---	---	---	---	---	8.6	6.6	7.5
4	---	---	---	---	---	---	---	---	---	8.3	5.8	6.9
5	---	---	---	---	---	---	11.6	9.4	10.3	7.7	5.2	6.5
6	---	---	---	---	---	---	10.3	8.3	8.8	9.1	5.9	7.3
7	---	---	---	---	---	---	8.9	7.8	8.4	9.8	6.8	8.2
8	---	---	---	---	---	---	9.3	8.4	8.8	9.7	7.1	8.3
9	---	---	---	---	---	---	9.5	8.1	8.7	9.3	6.8	8.0
10	---	---	---	---	---	---	8.7	7.4	7.9	9.8	6.7	8.2
11	---	---	---	---	---	---	8.1	7.2	7.7	9.6	6.3	7.9
12	---	---	---	---	---	---	7.9	7.6	7.8	9.0	6.2	7.7
13	---	---	---	---	---	---	8.2	7.2	7.6	9.9	6.2	8.0
14	---	---	---	---	---	---	---	---	---	10.2	6.7	8.4
15	---	---	---	---	---	---	---	---	---	10.5	7.2	8.8
16	---	---	---	---	---	---	---	---	---	10.6	7.1	8.9
17	---	---	---	---	---	---	11.1	9.2	10.0	9.3	7.1	8.2
18	---	---	---	---	---	---	---	---	---	8.6	7.0	7.8
19	---	---	---	---	---	---	---	---	---	9.8	6.9	8.2
20	---	---	---	---	---	---	---	---	---	9.1	6.8	7.9
21	---	---	---	---	---	---	---	---	---	8.0	6.7	7.5
22	---	---	---	---	---	---	---	---	---	7.6	7.1	7.3
23	---	---	---	---	---	---	---	---	---	7.5	7.0	7.2
24	---	---	---	---	---	---	---	---	---	7.6	6.8	7.2
25	---	---	---	---	---	---	10.2	7.6	8.8	7.4	6.4	6.8
26	---	---	---	---	---	---	11.1	8.9	9.9	7.1	6.3	6.8
27	---	---	---	---	---	---	---	---	---	7.3	6.6	6.9
28	---	---	---	---	---	---	---	---	---	7.0	6.5	6.8
29	---	---	---	---	---	---	---	---	---	7.0	6.6	6.8
30	---	---	---	---	---	---	---	---	---	6.9	6.1	6.6
31	---	---	---	---	---	---	---	---	---	8.1	6.7	7.3
MONTH	---	---	---	---	---	---	11.6	7.2	8.7	10.6	5.2	7.7

SCHUYLKILL RIVER BASIN

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	7.2	7.4	7.7	6.0	6.7	7.9	6.1	6.9	9.1	6.2	7.3
2	7.4	6.9	7.2	6.7	5.8	6.3	8.2	6.1	7.0	7.8	7.2	7.6
3	7.9	6.9	7.4	8.1	6.4	7.3	8.2	5.9	6.9	8.2	7.8	8.0
4	8.2	7.2	7.7	8.1	7.0	7.5	7.9	5.4	6.7	8.4	7.8	8.1
5	8.3	7.1	7.7	8.4	6.8	7.6	7.9	5.7	6.7	8.2	6.4	7.5
6	8.3	6.5	7.4	8.5	7.1	7.8	7.2	6.2	6.6	8.6	8.2	8.3
7	8.6	6.7	7.6	9.6	7.2	8.2	7.5	6.4	6.8	---	---	---
8	8.8	6.5	7.7	8.9	6.8	7.7	7.4	6.3	6.8	---	---	---
9	9.0	6.6	7.9	8.3	6.9	7.5	7.1	6.3	6.6	---	---	---
10	9.8	6.8	8.3	8.3	6.1	7.1	6.5	5.2	6.2	---	---	---
11	9.6	7.1	8.3	8.8	6.2	7.4	5.6	4.7	5.1	---	---	---
12	---	---	---	8.9	6.5	7.7	6.7	5.3	5.9	---	---	---
13	---	---	---	9.3	6.7	7.9	6.7	5.9	6.3	---	---	---
14	7.6	4.9	6.3	9.8	6.9	8.3	7.0	5.9	6.4	---	---	---
15	7.5	5.4	6.4	10.1	7.3	8.7	7.2	5.8	6.5	---	---	---
16	6.9	5.4	6.1	10.0	7.4	8.7	7.7	6.0	6.7	---	---	---
17	5.8	5.2	5.5	10.1	7.2	8.5	7.4	5.9	6.6	---	---	---
18	7.2	5.5	6.2	8.4	6.6	7.5	8.1	6.1	7.0	---	---	---
19	8.2	5.9	6.9	9.0	6.8	7.8	7.9	6.2	7.0	---	---	---
20	8.8	5.7	7.0	9.6	7.0	8.2	8.3	6.3	7.2	---	---	---
21	8.1	5.6	6.8	9.8	7.1	8.4	8.9	6.3	7.4	---	---	---
22	7.6	5.4	6.4	10.0	7.0	8.4	9.2	6.4	7.6	---	---	---
23	---	---	---	9.7	6.8	8.2	8.5	6.3	7.3	---	---	---
24	---	---	---	9.2	6.3	7.6	9.6	6.3	7.8	---	---	---
25	---	---	---	8.6	5.6	7.1	10.4	6.5	8.1	---	---	---
26	7.8	7.0	7.4	6.7	4.8	5.2	11.4	6.5	8.6	---	---	---
27	8.0	6.7	7.3	6.9	5.2	6.0	11.7	6.5	8.8	---	---	---
28	8.4	6.6	7.4	9.5	6.5	7.7	11.4	6.5	8.8	---	---	---
29	8.8	6.4	7.5	8.9	6.7	7.7	11.9	6.3	8.7	---	---	---
30	8.3	6.1	7.1	8.4	6.6	7.4	10.4	6.2	8.0	---	---	---
31	---	---	---	7.8	6.5	7.1	8.3	6.5	7.3	---	---	---
MONTH	9.8	4.9	7.2	10.1	4.8	7.6	11.9	4.7	7.1	9.1	6.2	7.8