

Water-Data Report 2007

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

Lower Delaware Basin  
Schuylkill Subbasin

LOCATION.--Lat 40°12'22", long 75°33'57" referenced to North American Datum of 1927, Montgomery County, PA, 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>.

**WATER-QUALITY RECORDS**

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 except for period Oct 1-20, which is fair. Dissolved oxygen records rated fair except for periods May 23-30 and Aug 17-29, which are 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, Sep 15, 1989; minimum, 118 microsiemens, Sep 15, 1987.

WATER TEMPERATURE: Maximum, 33.5°C, Jul 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, Jul 26, 1986.

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

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	17.1	15.3	16.1	---	---	---	---	---	---	---	---	---
2	17.5	15.4	16.4	---	---	---	---	---	---	---	---	---
3	18.5	16.1	17.3	---	---	---	---	---	---	---	---	---
4	19.8	17.4	18.6	---	---	---	---	---	---	---	---	---
5	19.4	18.2	18.8	---	---	---	---	---	---	---	---	---
6	18.3	15.6	16.8	---	---	---	---	---	---	---	---	---
7	15.6	14.8	15.1	---	---	---	---	---	---	---	---	---
8	16.2	14.1	15.1	---	---	---	---	---	---	---	---	---
9	17.1	14.7	15.8	---	---	---	---	---	---	---	---	---
10	18.0	15.9	16.9	---	---	---	---	---	---	---	---	---
11	17.4	16.9	17.1	---	---	---	---	---	---	---	---	---
12	18.1	16.4	17.3	---	---	---	---	---	---	---	---	---
13	16.4	13.9	14.9	---	---	---	---	---	---	---	---	---
14	14.0	12.4	13.2	---	---	---	---	---	---	---	---	---
15	13.0	11.0	11.9	---	---	---	---	---	---	---	---	---
16	12.6	10.5	11.6	---	---	---	---	---	---	---	---	---
17	12.8	11.8	12.1	---	---	---	---	---	---	---	---	---
18	15.2	12.8	14.0	---	---	---	---	---	---	---	---	---
19	15.4	14.2	14.9	---	---	---	---	---	---	---	---	---
20	15.9	15.1	15.5	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	19.8	10.5	15.5	---	---	---	---	---	---	---	---	---

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

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	16.7	15.1	15.9
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	13.5	11.0	12.2	---	---	---
4	---	---	---	---	---	---	12.9	10.5	11.5	---	---	---
5	---	---	---	---	---	---	10.5	8.7	9.5	---	---	---
6	---	---	---	---	---	---	8.9	7.5	8.2	---	---	---
7	---	---	---	---	---	---	8.6	7.0	7.8	---	---	---
8	---	---	---	---	---	---	7.7	6.7	7.2	---	---	---
9	---	---	---	---	---	---	8.4	6.1	7.2	---	---	---
10	---	---	---	---	---	---	9.1	6.7	7.9	---	---	---
11	---	---	---	---	---	---	9.6	7.2	8.4	---	---	---
12	---	---	---	---	---	---	8.7	8.3	8.4	---	---	---
13	---	---	---	---	---	---	8.5	7.9	8.2	---	---	---
14	---	---	---	---	---	---	9.8	7.2	8.5	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	11.7	9.2	10.4	---	---	---
21	---	---	---	---	---	---	13.4	10.7	12.0	---	---	---
22	---	---	---	---	---	---	14.9	12.0	13.4	---	---	---
23	---	---	---	---	---	---	16.3	13.4	14.8	---	---	---
24	---	---	---	---	---	---	18.0	15.2	16.4	23.6	19.1	21.3
25	---	---	---	---	---	---	16.7	14.9	15.7	25.1	20.4	22.7
26	---	---	---	---	---	---	15.4	13.2	14.1	26.0	22.2	24.0
27	---	---	---	---	---	---	13.2	11.4	12.2	26.3	22.6	24.3
28	---	---	---	---	---	---	13.8	12.4	13.1	24.3	22.9	23.5
29	---	---	---	---	---	---	16.0	13.0	14.4	25.2	21.3	23.2
30	---	---	---	---	---	---	17.5	14.3	15.9	25.9	21.6	23.7
31	---	---	---	---	---	---	---	---	---	27.3	22.6	24.9
Month	---	---	---	---	---	---	18.0	6.1	11.2	27.3	15.1	22.6

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

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

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>		
<b>1</b>	26.5	24.2	25.3	25.7	23.4	24.7	29.8	25.6	27.6	25.6	22.8	24.4
<b>2</b>	25.8	23.9	24.8	24.6	21.8	23.4	31.0	26.1	28.5	26.0	21.7	23.8
<b>3</b>	24.6	22.9	24.0	26.0	21.3	23.6	31.3	27.0	29.1	26.6	21.9	24.2
<b>4</b>	22.9	21.6	22.2	24.0	22.4	23.0	31.6	27.5	29.4	27.0	22.9	24.9
<b>5</b>	22.9	21.1	22.1	24.4	22.1	23.1	30.4	26.2	28.3	26.4	22.8	24.7
<b>6</b>	23.1	20.8	21.9	---	---	---	29.4	26.8	28.1	27.0	23.2	25.0
<b>7</b>	23.9	19.9	21.9	---	---	---	30.4	26.7	28.6	28.1	23.9	25.9
<b>8</b>	26.7	21.5	23.9	---	---	---	31.3	27.7	29.4	28.9	25.0	26.8
<b>9</b>	27.4	24.1	25.7	---	---	---	30.6	27.9	29.1	28.8	25.2	26.9
<b>10</b>	25.9	24.4	25.0	30.6	26.2	28.2	29.9	25.9	28.2	29.4	26.1	27.5
<b>11</b>	26.1	23.2	24.5	28.9	26.7	27.8	28.2	24.2	26.2	27.3	24.5	26.0
<b>12</b>	26.4	23.5	24.8	28.6	25.3	26.9	29.2	24.5	26.9	24.9	22.6	23.7
<b>13</b>	24.8	22.6	23.8	27.6	24.4	25.9	29.2	26.1	27.5	24.4	21.0	22.6
<b>14</b>	22.6	20.3	21.4	28.1	23.5	25.8	28.6	24.4	26.6	---	---	---
<b>15</b>	22.4	19.6	20.8	29.2	24.8	26.9	28.3	24.2	26.2	---	---	---
<b>16</b>	24.8	20.1	22.3	29.7	25.6	27.6	28.1	25.5	26.6	---	---	---
<b>17</b>	26.5	21.7	24.0	30.1	26.0	28.0	28.5	25.6	27.1	---	---	---
<b>18</b>	28.4	23.7	26.0	29.5	26.4	27.9	27.0	23.7	25.5	---	---	---
<b>19</b>	29.1	24.9	26.8	27.7	26.0	27.0	24.8	22.2	23.3	---	---	---
<b>20</b>	26.5	23.8	24.9	27.0	24.9	26.0	22.2	20.3	21.2	23.1	18.8	20.9
<b>21</b>	25.8	22.4	24.0	26.7	23.0	24.9	20.3	18.4	19.2	24.3	19.7	21.9
<b>22</b>	25.0	22.8	23.9	27.4	23.2	25.3	18.6	17.9	18.3	24.1	21.2	22.5
<b>23</b>	24.8	21.4	23.0	25.3	22.3	23.7	21.8	18.5	19.9	24.6	21.5	22.9
<b>24</b>	25.8	21.0	23.4	26.3	20.6	23.3	23.6	21.1	22.2	24.0	19.8	21.9
<b>25</b>	24.2	22.7	23.3	26.8	22.8	24.9	27.7	22.7	24.9	24.6	19.9	22.1
<b>26</b>	27.5	22.3	24.8	28.6	24.1	26.0	27.1	24.9	25.8	25.8	21.4	23.5
<b>27</b>	29.7	25.1	27.3	29.3	25.8	27.3	25.6	23.3	24.5	26.1	22.9	24.4
<b>28</b>	29.2	26.1	27.5	29.5	25.7	27.5	26.4	23.2	24.9	24.8	22.2	23.7
<b>29</b>	27.2	24.7	25.8	28.0	25.9	26.8	27.3	23.6	25.4	23.0	20.2	21.5
<b>30</b>	27.4	23.7	25.4	28.3	25.2	26.7	27.7	23.9	25.8	22.7	18.8	20.6
<b>31</b>	---	---	---	28.8	25.6	27.2	26.5	25.0	25.8	---	---	---
<b>Month</b>	29.7	19.6	24.1	30.6	20.6	25.9	31.6	17.9	25.8	29.4	18.8	23.8

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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	---	---	---	---	---	---	---	---	---	---	---	---

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

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	---	---	---	---	---	---	---	---	---	10.5	8.4	9.2
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	11.4	9.8	10.6	---	---	---
4	---	---	---	---	---	---	10.5	9.5	9.9	---	---	---
5	---	---	---	---	---	---	11.5	9.7	10.5	---	---	---
6	---	---	---	---	---	---	12.3	10.8	11.4	---	---	---
7	---	---	---	---	---	---	12.5	10.9	11.7	---	---	---
8	---	---	---	---	---	---	13.1	10.8	12.1	---	---	---
9	---	---	---	---	---	---	13.6	11.7	12.5	---	---	---
10	---	---	---	---	---	---	13.7	11.7	12.6	---	---	---
11	---	---	---	---	---	---	13.8	11.3	12.5	---	---	---
12	---	---	---	---	---	---	12.5	10.8	11.3	---	---	---
13	---	---	---	---	---	---	12.4	9.9	11.2	---	---	---
14	---	---	---	---	---	---	13.9	10.9	12.3	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	10.7	10.3	10.4	---	---	---
21	---	---	---	---	---	---	10.6	9.9	10.2	---	---	---
22	---	---	---	---	---	---	10.8	9.5	10.0	---	---	---
23	---	---	---	---	---	---	10.9	9.2	10	---	---	---
24	---	---	---	---	---	---	10.8	8.7	9.7	8.7	7.2	7.9
25	---	---	---	---	---	---	10.7	8.7	9.6	8.6	6.9	7.7
26	---	---	---	---	---	---	10.3	8.6	9.4	8.6	6.4	7.5
27	---	---	---	---	---	---	---	---	---	8.8	6.5	7.6
28	---	---	---	---	---	---	---	---	---	8.2	6.3	7.1
29	---	---	---	---	---	---	---	---	---	9.1	6.6	7.8
30	---	---	---	---	---	---	---	---	---	8.7	7.1	8.0
31	---	---	---	---	---	---	---	---	---	8.7	6.7	7.7
<b>Month</b>	---	---	---	---	---	---	13.9	8.6	10.9	10.5	6.3	7.8

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	7.5	6.2	6.8	8.7	5.6	7.1	8.1	5.7	6.8	9.1	5.6	7.1
2	---	---	---	9.3	6.1	7.6	7.8	5.5	6.6	9.7	6.1	7.8
3	---	---	---	9.8	6.0	7.7	7.9	5.2	6.6	9.7	6.5	8.0
4	---	---	---	8.8	5.8	7.1	8.0	5.2	6.7	9.9	6.2	8.0
5	---	---	---	9.0	5.6	6.9	8.7	5.5	7.1	10.5	6.2	8.2
6	8.0	6.9	7.4	---	---	---	8.4	5.6	7.0	11.0	6.2	8.5
7	8.2	6.9	7.5	---	---	---	8.7	5.7	7.2	11.6	6.3	8.8
8	8.0	6.6	7.3	---	---	---	8.4	5.7	7.0	12.1	5.7	8.8
9	7.8	6.0	6.9	---	---	---	---	---	---	12.4	5.4	8.8
10	7.4	5.7	6.5	8.5	6.2	7.3	---	---	---	12.5	5.4	8.9
11	---	---	---	8.5	5.6	7.0	---	---	---	9.3	5.0	6.8
12	---	---	---	9.7	5.6	7.3	---	---	---	10.0	5.0	7.2
13	---	---	---	9.8	6.2	7.7	---	---	---	10.9	5.4	7.9
14	8.0	6.4	7.2	10.5	6.5	8.2	---	---	---	---	---	---
15	8.7	7.0	7.8	11.1	6.3	8.6	---	---	---	---	---	---
16	8.7	7.0	7.8	11.3	6.1	8.4	---	---	---	---	---	---
17	8.9	6.6	7.7	11.0	6.0	8.3	---	---	---	---	---	---
18	9.1	6.6	7.8	10.7	5.7	8.0	10.3	6.2	8.4	---	---	---
19	9.3	6.1	7.6	9.9	5.6	7.7	9.6	7.2	8.4	---	---	---
20	---	---	---	10.0	5.0	7.5	8.0	6.7	7.5	15.2	7.0	10.6
21	---	---	---	10.7	5.4	7.9	7.8	7.1	7.4	14.8	6.7	10.3
22	8.1	6.1	7.0	12.1	5.8	8.7	8.2	7.5	7.7	13.4	6.2	9.2
23	8.8	6.4	7.6	11.0	5.6	8.0	9.0	7.9	8.3	13.2	5.7	8.9
24	9.1	6.8	7.9	12.0	6.1	8.6	8.9	7.4	8.1	13.0	6.0	8.9
25	8.5	6.5	7.4	9.2	4.7	7.3	9.1	6.8	7.9	13.0	6.0	8.8
26	9.0	6.0	7.4	11.9	4.7	8.0	8.8	6.6	7.5	12.6	5.7	8.5
27	9.0	5.4	7.1	11.1	5.3	7.8	8.6	6.5	7.4	12.1	5.0	7.6
28	8.1	5.1	6.4	10.1	5.0	7.3	10.0	7.6	8.6	10.0	5.0	7.0
29	6.3	4.4	5.4	7.9	4.9	6.1	9.3	7.4	8.3	10.3	5.7	7.5
30	7.9	4.9	6.3	8.2	5.3	6.6	8.9	5.8	7.3	10.8	6.2	8.0
31	---	---	---	8.2	5.6	6.8	8.4	5.2	6.5	---	---	---
Month	9.3	4.4	7.2	12.1	4.7	7.6	10.3	5.2	7.5	15.2	5.0	8.3