

## SCHUYLKILL RIVER BASIN

01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA  
(Pennsylvania Water-Quality Network Station)

**LOCATION**--Lat 40°14'30", long 75°39'07", Montgomery County, Hydrologic Unit 02040203, on right bank 75 ft upstream from bridge on Hanover Street in Pottstown, and 0.3 mi downstream from Manatawny Creek.

**DRAINAGE AREA**--1,147 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD OF RECORD**--October 1927 to current year.

**GAGE**--Water-stage recorder and crest-stage gage. Datum of gage is 117.86 ft above National Geodetic Vertical Datum of 1929. October 1927 to Nov. 22, 1928, nonrecording gage, and Nov. 23, 1928, to Dec. 26, 1972, recording gage at site 100 ft downstream at same datum. Dec. 27, 1972, to May 10, 1974, nonrecording gage 1.0 mi downstream at datum 2.83 ft lower.

**REMARKS**--Records good except those for estimated daily discharges, which are fair. Flow regulated by Blue Marsh Lake (station 01470870) since April 1979, by Still Creek Reservoir (station 01469200) since February 1933, and by Lake Ontelaunee. Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD**--Maximum stage known prior to October 1926, 21.0 ft, Feb. 28, 1902, from floodmarks, discharge, about 53,900 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	667	2650	1690	3230	e1200	1900	3850	1710	5970	2420	1480	1090
2	576	2190	1570	6700	e1300	2430	3760	1630	7920	2250	1550	2540
3	520	1970	1290	7600	e1200	4180	3450	1630	5820	2120	1530	1930
4	663	1770	1130	7030	e1100	3660	3070	1560	9000	1940	1560	2240
5	616	1390	1140	5580	e1500	2980	2990	1500	8020	1830	2930	1870
6	552	1710	1190	4860	e1400	4340	2900	1440	6240	1790	4210	1450
7	488	1870	1160	3900	e1200	4310	2670	1430	5670	1670	3850	1270
8	524	1470	1100	3360	e1100	3250	2740	1530	7830	1820	2840	1170
9	521	1340	1080	3320	e1000	3920	3010	1540	6420	1690	2430	1090
10	535	1270	983	3390	e950	4380	3250	1420	5560	1620	3200	989
11	2700	1250	1960	3280	e920	3590	4040	1370	4670	1640	2340	930
12	5630	1590	5950	2960	e900	3020	5260	1330	4310	1570	3140	904
13	3890	2230	6150	2700	e850	2840	4770	1270	6240	1440	2720	1150
14	2430	2010	8020	2400	e750	4280	4170	1200	6430	1340	2740	1600
15	1780	1630	8080	e2200	e700	4190	4040	1150	4690	1200	2430	6100
16	3300	2000	6580	e1900	e650	4300	3710	1130	3820	1150	2130	5370
17	7600	5140	5360	e1800	e600	4910	3430	1210	2950	1120	2070	4400
18	5240	6380	4440	e1700	e650	5530	3120	1210	2910	1070	1850	3360
19	3560	5670	3530	e1600	e800	5740	2640	1150	3190	1340	1690	4350
20	2920	4580	3790	e1400	e1100	5680	2470	1080	7170	1320	1510	3110
21	2440	3660	4750	e1500	e1700	11600	2340	1190	19700	1180	1370	2480
22	1540	3290	3840	e1300	e2500	10900	2320	1140	13200	5900	1310	2140
23	1230	3200	3490	e1200	e6100	8390	2230	1070	9610	7610	1370	10000
24	1100	2750	3290	e1000	5710	6680	2050	1170	8170	6650	1190	12100
25	1070	2450	4050	e900	4230	4510	1810	1410	6840	5420	1110	6590
26	1910	2120	4220	e1000	3260	3820	2010	2590	5990	3400	1050	5230
27	2200	2150	3340	e1000	2420	3950	2290	3220	5200	2770	1090	4090
28	1660	2080	2850	e970	2050	3300	1970	2870	3830	2480	1080	4270
29	1570	1860	2680	e900	---	3340	1840	2820	3470	2030	997	3770
30	2270	1770	2550	e960	---	3970	1840	2570	3110	1700	1010	2900
31	3040	---	2390	e1100	---	4290	---	2180	---	1550	1210	---
TOTAL	64742	75440	103643	82740	47840	144180	90040	49720	193950	73030	60987	100483
MEAN	2088	2515	3343	2669	1709	4651	3001	1604	6465	2356	1967	3349
MAX	7600	6380	8080	7600	6100	11600	5260	3220	19700	7610	4210	12100
MIN	488	1250	983	900	600	1900	1810	1070	2910	1070	997	904

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2003, BY WATER YEAR (WY)

MEAN	1141	1656	2170	2184	2420	3193	2913	2265	1621	1247	1033	1087
MAX	3870	3897	7359	7383	5117	8948	7820	7220	7634	3940	5290	3732
(WY)	1977	1951	1997	1979	1971	1936	1983	1989	1972	1984	1933	1987
MIN	258	309	419	316	540	1101	875	729	462	302	301	256
(WY)	1931	1931	1931	1981	1934	1981	1985	1965	1965	1966	1966	1932

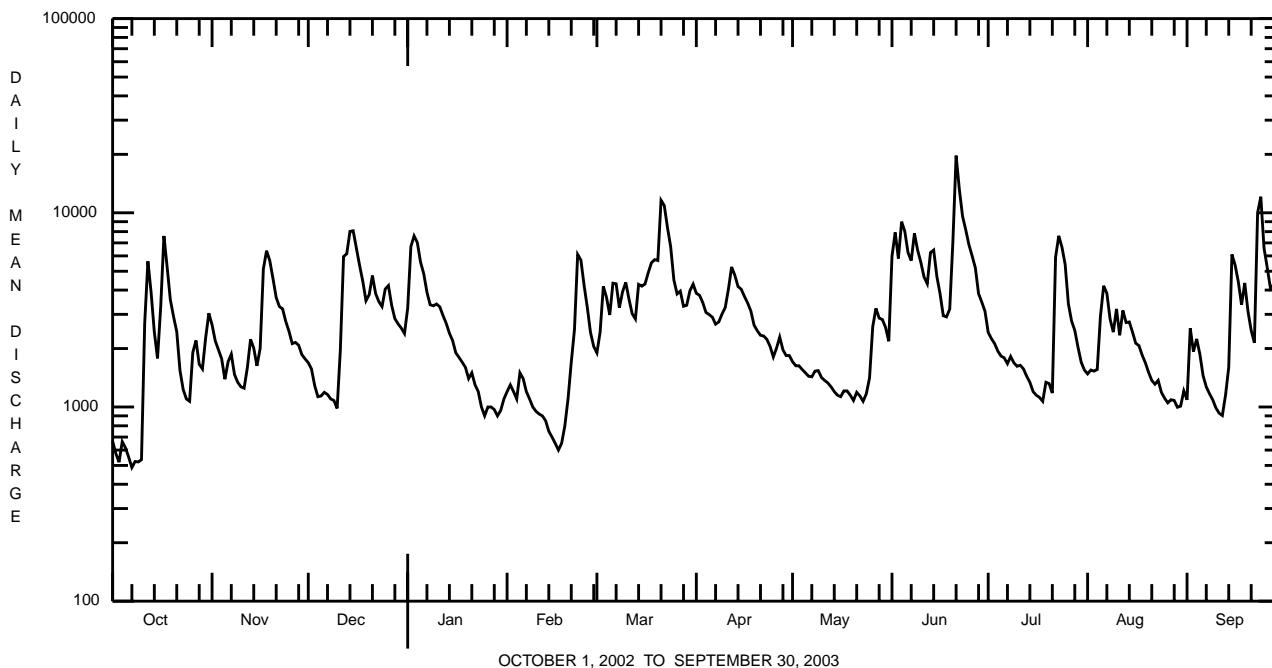
e Estimated.

SCHUYLKILL RIVER BASIN

01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR			FOR 2003 WATER YEAR		WATER YEARS 1928 - 2003	
ANNUAL TOTAL	555853			1086795			
ANNUAL MEAN	1523			2978		1908	
HIGHEST ANNUAL MEAN						3211	
LOWEST ANNUAL MEAN						843	
HIGHEST DAILY MEAN	8080	Dec 15		19700	Jun 21	71200	Jun 23 1972
LOWEST DAILY MEAN	254	Aug 14		488	Oct 7	175	Sep 19 1932
ANNUAL SEVEN-DAY MINIMUM	268	Aug 9		555	Oct 3	210	Sep 19 1932
MAXIMUM PEAK FLOW				23400	Jun 20	<b>a</b> 95900	Jun 23 1972
MAXIMUM PEAK STAGE				13.04	Jun 20	<b>b</b> 29.97	Jun 23 1972
10 PERCENT EXCEEDS	3330			5960		3850	
50 PERCENT EXCEEDS	1070			2320		1300	
90 PERCENT EXCEEDS	347			1070		474	

**a** From rating curve extended above 50,400 ft<sup>3</sup>/s.  
**b** From floodmark.



SCHUYLKILL RIVER BASIN

01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA--Continued  
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WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 430-470.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd, mg/L as CaCO3 (00900)	Calcium, water, unfltrd, recoverable, mg/L (00916)	Magnesium, water, unfltrd, recoverable, mg/L (00927)	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)
NOV 2002 26...	0910	1028	9813	2140	40	11.9	7.7	298	6.9	120	28.8	10.5	62
JAN 2003 15...	0830	1028	9813	E2200	40	14.0	7.6	355	1.3	140	34.1	12.0	65
MAR 31...	0830	1028	9813	4410	40	11.3	7.6	274	7.8	100	25.3	10.0	52
MAY 12...	0910	1028	9813	1330	40	7.7	7.4	383	16.6	160	37.1	15.1	80
JUL 01...	0850	1028	9813	2460	40	8.3	7.6	335	19.8	140	32.6	13.2	71
SEP 09...	0820	1028	9813	1080	40	8.0	7.6	399	20.4	160	38.7	14.7	89

Date	Fluoride, water, unfltrd mg/L (00951)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 105degC, wat flt mg/L (00515)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water, unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd, recoverable, mg/L (01105)	Copper, water, unfltrd, recoverable, mg/L (01042)
NOV 2002 26...	<.2	40.8	226	12	.120	3.65	.060	.04	.078	4.6	2.2	400	<10
JAN 2003 15...	<.2	46.3	278	6	.240	4.42	<.200	.04	.069	4.7	1.7	<200	<10
MAR 31...	<.2	42.3	168	22	.120	2.11	<.040	.04	.077	2.5	2.5	500	<10
MAY 12...	<.2	57.7	72	18	.050	2.83	.130	.08	.136	3.5	2.7	200	<10
JUL 01...	<.2	51.5	254	8	.100	2.99	.070	.04	.070	3.3	2.0	300	10
SEP 09...	<.2	59.8	318	4	.020	2.75	.040	.11	.132	2.7	2.8	<200	10

Date	Cyanide amenable to chlorination, wat unfltrd mg/L (00722)	Iron, water, unfltrd, recoverable, mg/L (01045)	Lead, water, unfltrd, recoverable, mg/L (01051)	Manganese, water, unfltrd, recoverable, mg/L (01055)	Nickel, water, unfltrd, recoverable, mg/L (01067)	Zinc, water, unfltrd, recoverable, mg/L (01092)	Phenolic compounds, water, unfltrd, mg/L (32730)
NOV 2002 26...	1.14	530	2.2	120	<50	20	<5
JAN 2003 15...	<1.00	210	<1.0	190	<50	<10	<5
MAR 31...	<1.00	1030	4.4	340	<50	50	<5
MAY 12...	<1.00	390	1.2	160	<50	30	<5
JUL 01...	<1.00	380	1.9	100	<50	110	<5
SEP 09...	<1.00	250	1.2	80	<50	260	<5

## SCHUYLKILL RIVER BASIN

## 01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA--Continued

BIOLOGICAL DATA  
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using rapid bioassessment protocols for benthic macroinvertebrates using a D-Frame net with a mesh size of 500  $\mu$ m. Samples represent counts per 100 (approximate) subsamples.

Date	9/3/02
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	1
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Physidae	
<u>Physa</u> sp	1
Arthropoda	
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<u>Acentrella</u> sp	16
<u>Baetis</u> sp	7
Heptageniidae	4
<u>Stenonema</u> sp	11
Isonychiidae	
<u>Isonychia</u> sp	1
Tricorythidae	
<u>Tricorythodes</u> sp	11
Odonata (DRAGONFLIES AND DAMSELFLIES)	
Coenagrionidae	
<u>Argia</u> sp	1
Plecoptera (STONEFLIES)	
Perlidae	
<u>Agnatina</u> sp	1
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<u>Cheumatopsyche</u> sp	27
<u>Hydropsyche</u> sp	12
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<u>Optioservus</u> sp	4
<u>Stenelmis</u> sp	56
Psephenidae (WATER PENNIES)	
<u>Psephenus</u> sp	1
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	9
Total Organisms	163