

## SCHUYLKILL RIVER BASIN

### 01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA (National Water-Quality Assessment Station)

**LOCATION.**--Lat 39°58'04", long 75°11'20", Philadelphia County, Hydrologic Unit 02040203, on right bank 150 ft upstream from Fairmount Dam, 1,500 ft upstream from bridge on Spring Garden Street in Philadelphia, and 8.7 mi upstream from mouth.

**DRAINAGE AREA.**--1,893 mi<sup>2</sup>.

#### WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--October 1931 to current year. Records for January 1898 to December 1912, published in WSP 35, 48, 65, 82, 97, 125, 166, 202, 214, 261, 301, and 381 have been found to be unreliable and should not be used.

**REVISED RECORDS.**--WSP 756: Drainage area. WSP 1302: 1936(M). WSP 1432: 1945. See also PERIOD OF RECORD.

**GAGE.**--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 5.74 ft above sea level. Prior to Nov. 25, 1956, water-stage recorder at site on right bank just upstream from Fairmount Dam at same datum. Nov. 26, 1956, to Oct. 6, 1966, water-stage recorder at site on left bank 40 ft upstream from Fairmount Dam at same datum.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated by Still Creek Reservoir (station 01469200) since February 1933, Blue Marsh Lake (station 01470870) since April 1979, Green Lane Reservoir (station 01472200) since December 1956 and to some extent by Lake Ontelaunee. Daily mean discharges do not include diversion above station by city of Philadelphia for municipal water supply. Satellite and landline telemetry at station.

**COOPERATION.**--Records of diversion provided by Philadelphia Water Department.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Oct. 4, 1869 reached a stage of 17.0 ft, discharge, about 135,000 ft<sup>3</sup>/s. Flood of Mar. 1, 1902 reached a stage of 14.8 ft, discharge, about 98,000 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 18,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Jan. 19	0500	20,300	8.88	Mar. 22	0800	22,000	9.07
Jan. 25	2400	18,100	8.62	Sept. 17	0030	*92,500	*14.10

#### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	558	835	806	727	2850	3560	2450	1720	929	624	294	458
2	457	831	795	626	3770	3480	2520	1670	844	623	269	447
3	534	722	808	4590	7390	2810	2320	1590	878	802	173	453
4	757	725	782	5670	5430	3940	1970	1530	950	568	165	429
5	836	726	809	2290	4630	3830	1960	1530	878	498	217	486
6	749	705	815	1530	3760	3310	1950	1730	825	515	245	1260
7	649	784	830	1250	3210	3650	2000	1600	806	445	251	1820
8	1270	904	832	1180	3250	3160	1940	1450	726	443	337	2410
9	3660	933	900	1380	3340	2710	2000	1740	701	386	435	1820
10	3890	879	838	4570	3130	2660	4540	1510	670	374	441	2890
11	3630	905	787	4050	2800	2510	3660	1310	645	413	355	1470
12	2580	886	775	2900	2540	2310	4050	1290	671	445	359	949
13	1960	863	769	2390	3560	2200	3460	1470	733	454	326	780
14	1830	728	788	2210	3320	2100	2930	1400	850	522	2770	658
15	1780	760	745	3880	2760	2320	2660	1180	891	668	1880	708
16	1820	700	744	4320	2480	3030	2640	1120	929	596	1270	30800
17	1530	677	723	3100	2530	3560	3140	1110	875	481	828	56100
18	1130	733	760	6370	4910	3580	2730	1060	724	456	625	14500
19	1030	767	740	17400	5510	2990	2210	1410	844	517	485	6950
20	973	739	712	9370	3430	2590	2050	1640	973	489	668	4950
21	1100	834	703	6460	2890	2810	2260	1300	920	463	637	4490
22	898	829	722	5230	2560	16800	2390	1130	860	454	494	4560
23	814	830	688	5500	2230	8520	2470	1200	725	468	487	4200
24	833	792	693	9620	2140	6130	3100	2270	644	395	429	3080
25	814	707	686	15800	2110	5010	2700	2670	565	335	410	2430
26	779	929	615	9950	1970	4240	2160	1740	551	353	2230	2070
27	776	1410	649	6890	1690	3720	2060	1380	529	283	4430	1910
28	1010	1220	632	5080	1780	3420	2110	1190	569	237	998	1720
29	867	948	675	4210	---	3350	2070	1060	520	250	679	1560
30	696	856	775	3610	---	2970	1910	1010	515	258	552	2630
31	809	---	707	3150	---	2630	---	930	---	268	480	---
TOTAL	41019	25157	23303	155303	91970	119900	76410	44940	22740	14083	24219	158988
MEAN	1323	839	752	5010	3285	3868	2547	1450	758	454	781	5300
MAX	3890	1410	900	17400	7390	16800	4540	2670	973	802	4430	56100
MIN	457	677	615	626	1690	2100	1910	930	515	237	165	429
(†)	200	220	169	183	181	181	175	192	226	241	213	188

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1999, BY WATER YEAR (WY)

MEAN	1389	2330	3170	3401	3642	4850	4262	3120	2098	1627	1376	1440
MAX	5624	6272	11150	11400	8136	13320	11620	9943	11640	6434	7980	5300
(WY)	1997	1973	1997	1979	1939	1936	1983	1989	1972	1984	1933	1999
MIN	89.4	223	444	340	647	1552	1237	693	261	116	140	117
(WY)	1942	1932	1981	1981	1934	1981	1985	1965	1965	1966	1966	1932

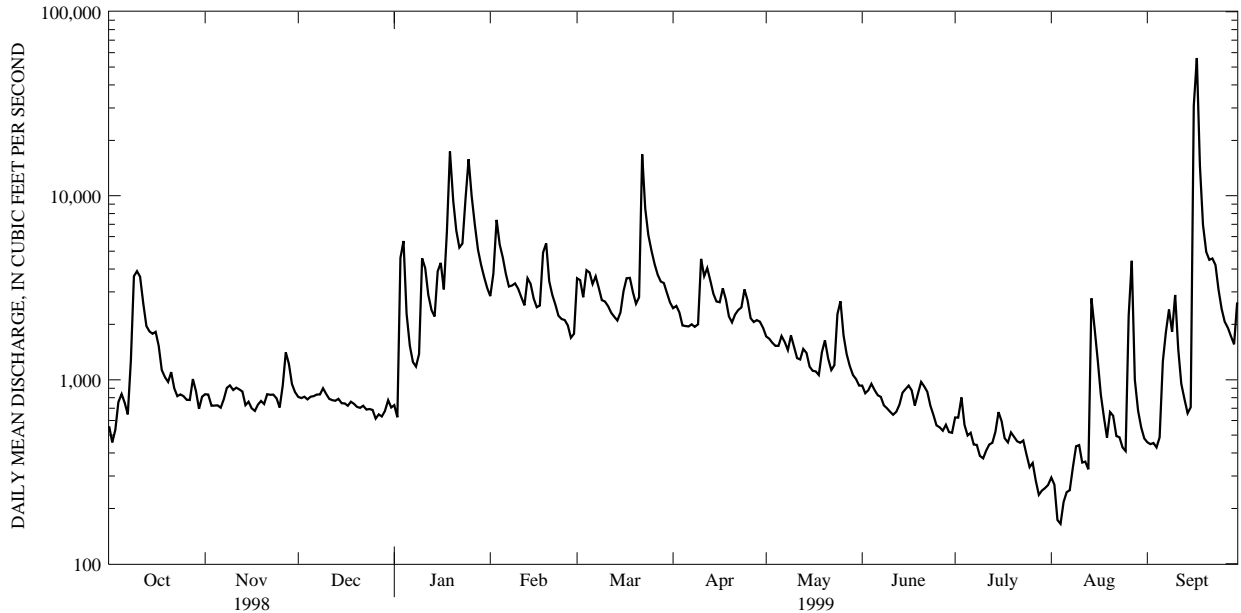
† Diversion for municipal supply of City of Philadelphia, equivalent in cubic feet per second.

SCHUYLKILL RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1932 - 1999	
ANNUAL TOTAL	1101077		798032		2721	
ANNUAL MEAN	3017		2186		4791	
HIGHEST ANNUAL MEAN					1014	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	17000	May 12	56100	Sep 17	93400	Jun 23 1972
LOWEST DAILY MEAN	457	Oct 2	165	Aug 4	.60	Sep 2 1966
ANNUAL SEVEN-DAY MINIMUM	548	Sep 27	231	Aug 1	24	Sep 28 1941
INSTANTANEOUS PEAK FLOW			<sup>a</sup> 92500	Sep 17	<sup>a</sup> 103000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			14.10	Sep 17	14.65	Jun 23 1972
INSTANTANEOUS LOW FLOW			27	Aug 3,4	.00	Sep 2 1966
10 PERCENT EXCEEDS	6430		4110		5850	
50 PERCENT EXCEEDS	1980		1120		1670	
90 PERCENT EXCEEDS	723		458		430	

a From rating curve extended above 92,000 ft<sup>3</sup>/s.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999

## SCHUYLKILL RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued  
(National Water-Quality Assessment Station)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1998 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1998 to current year.

WATER TEMPERATURE: September 1998 to current year.

INSTRUMENTATION.--Water-quality monitor (in situ system; measurements recorded every 15 minutes) located inside raw-water water intake of Belmont Pumping Station, Philadelphia, PA.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water Quality Assessment Program (NAWQA). Fish tissue, bed sediment, and fish community data for this site are presented on pages 433-471. Interruptions in the daily record were due to instrument malfunction.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE ( $\mu$ S/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
NOV 1998										
16...	1140	ENVIRONMENTAL	731	761	102	11.4	7.5	579	13.5	10.5
DEC										
08...	1005	ENVIRONMENTAL	812	765	92	10.0	7.7	540	10.5	12.0
JAN 1999										
05...	1250	ENVIRONMENTAL	2090	770	132	19.2	7.9	355	.0	.5
FEB										
11...	1445	ENVIRONMENTAL	2770	762	102	13.0	7.9	343	16.0	5.0
MAR										
09...	1015	ENVIRONMENTAL	2770	767	91	12.2	8.1	332	2.5	3.5
09...	1016	SEQUENTIAL REPLICATE	--	--	--	--	--	--	--	--
24...	1120	ENVIRONMENTAL	6160	758	102	12.2	7.9	281	16.0	7.0
APR										
08...	1530	ENVIRONMENTAL	1980	752	122	11.8	8.7	367	30.0	16.0
21...	1410	ENVIRONMENTAL	2380	762	104	11.3	7.8	334	16.0	11.5
MAY										
06...	1000	ENVIRONMENTAL	1760	762	93	8.9	7.7	394	17.0	17.5
20...	1220	ENVIRONMENTAL	1750	763	91	8.4	7.7	430	24.0	19.5
JUN										
03...	1440	ENVIRONMENTAL	978	757	122	9.8	7.8	434	28.5	26.0
15...	1140	ENVIRONMENTAL	921	760	74	6.2	7.8	514	38.0	24.0
JUL										
01...	0930	ENVIRONMENTAL	650	762	--	--	7.5	511	24.0	--
14...	1340	ENVIRONMENTAL	630	766	127	10.4	8.2	567	26.5	26.0
28...	1130	ENVIRONMENTAL	289	757	--	--	7.5	565	34.0	--
AUG										
04...	1140	ENVIRONMENTAL	168	759	121	9.4	7.9	591	--	28.0
18...	1210	ENVIRONMENTAL	680	757	82	6.4	7.7	506	35.0	27.5
SEP										
07...	1545	ENVIRONMENTAL	2290	755	91	7.4	7.8	546	28.0	25.0
13...	1010	ENVIRONMENTAL	812	765	117	9.9	7.4	371	27.0	24.0
17...	1150	ENVIRONMENTAL	53700	759	77	7.3	7.4	143	18.5	18.0

## SCHUYLKILL RIVER BASIN

## 01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV 1998											
16...	200	46	20	5.1	35	103	--	--	--	48	.2
DEC 08...	180	43	19	5.3	33	94	84	102	--	44	.2
JAN 1999											
05...	96	24	8.8	1.2	28	54	52	64	--	49	.1
FEB 11...	110	27	9.3	3.0	22	58	59	72	--	37	.1
MAR 09...	100	27	9.2	2.6	19	--	61	74	--	30	<.1
09...	--	--	--	--	--	--	--	--	--	--	--
24...	87	22	7.8	2.5	15	--	50	61	--	26	<.1
APR 08...	130	32	11	3.0	21	--	69	77	4	33	<.1
21...	110	28	10	2.8	21	--	66	80	--	31	<.1
MAY 06...	120	30	11	3.6	23	--	82	99	--	36	.1
20...	130	32	12	3.7	27	--	82	100	--	43	.1
JUN 03...	130	32	13	3.8	27	--	76	93	--	38	<.1
15...	160	37	16	4.4	32	--	83	101	--	49	.2
JUL 01...	160	36	16	4.9	34	--	74	90	--	52	.2
14...	170	38	18	5.5	42	--	87	106	--	59	.2
28...	160	36	18	5.4	38	--	105	128	--	56	.2
AUG 04...	170	36	20	5.8	42	--	97	118	--	59	.2
18...	130	31	13	5.5	41	--	74	90	--	56	.2
SEP 07...	150	37	15	5.2	39	--	89	109	--	60	.2
13...	110	25	11	3.7	24	--	E72	E88	--	33	.1
17...	46	12	3.8	3.4	5.7	--	28	34	--	8.4	.1

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
NOV 1998											
16...	1.3	96	.14	.5	.7	4.0	3.6	4.3	.06	.34	.31
DEC 08...	1.6	87	.20	.6	.8	3.8	3.3	4.0	.03	.34	.31
JAN 1999											
05...	4.9	32	.34	.9	2.4	3.1	2.2	4.6	.04	.18	.16
FEB 11...	8.5	40	.39	.6	.7	3.4	2.8	3.5	.06	.15	.13
MAR 09...	7.2	36	.17	.4	1.0	3.1	2.7	3.7	.05	.10	.08
09...	--	--	--	--	--	--	--	--	--	--	--
24...	6.4	35	.10	.4	.7	2.6	2.2	2.9	.03	.037	.03
APR 08...	3.2	47	<.02	.3	.6	2.8	2.4	3.1	.05	.13	.10
21...	6.1	36	.10	.4	.6	2.8	2.4	3.0	.06	.16	.12
MAY 06...	3.8	46	.22	.5	.8	3.3	2.8	3.6	.09	.27	.22
20...	5.2	45	.22	.5	.6	3.9	3.3	3.9	.08	.35	.31
JUN 03...	7.0	59	.14	.4	.6	3.3	2.9	3.5	.07	--	.26
15...	8.2	74	.17	.6	.9	3.6	3.0	3.9	.07	.44	.35
JUL 01...	6.7	74	.10	.5	.6	3.6	3.1	3.7	.05	.47	.37
14...	9.6	82	.12	.5	1.0	3.1	2.6	3.5	.04	.48	.4
28...	8.0	74	.27	.7	1.0	3.3	2.7	3.7	.05	.43	.38
AUG 04...	7.4	78	.29	.7	1.0	3.3	2.6	3.6	.04	.42	.40
18...	6.4	58	.32	.8	.9	3.9	3.1	4.0	.09	.39	.35
SEP 07...	6.9	72	.09	.5	.6	4.3	3.7	4.4	.06	.55	.50
13...	6.0	54	.13	.4	.6	2.7	2.3	2.8	.05	.25	.23
17...	5.9	14	.14	.4	1.5	2.5	2.1	3.6	.02	.094	.08

SCHUYLKILL RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (µG/L AS B) (01020)	IRON, DIS-SOLVED (µG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDEDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDEDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDEDED (MG/L) (80154)
NOV 1998											
16...	.37	354	329	2	104	30	7	3.3	.4	7.3	4
DEC 08...	.45	325	299	3	84.9	34	39	3.2	.2	20	9
JAN 1999											
05...	.56	207	190	200	37.4	66	55	13	--	1200	213
FEB 11...	.18	201	195	7	36.2	29	110	2.3	--	44	6
MAR 09...	.25	195	181	10	32.6	37	150	2.5	.3	474	63
09...	--	--	--	--	--	--	--	2.5	.4	--	--
24...	.13	169	155	40	18.7	26	67	3.0	.5	564	34
APR 08...	.19	214	203	7	44.4	55	22	2.4	.5	66	12
21...	.30	202	185	--	36.5	52	70	2.7	.2	734	114
MAY 06...	.36	226	217	5	48.5	51	67	2.9	.2	157	33
20...	.36	282	234	7	58.6	34	80	2.9	.3	26	6
JUN 03...	.31	271	240	3	59.7	18	40	3.0	.2	14	5
15...	.49	316	286	8	87.0	15	160	3.5	.3	15	6
JUL 01...	.50	326	284	--	96.0	10	14	3.3	.2	9.3	5
14...	.62	347	321	8	107	E6	190	3.7	3.8	14	8
28...	.46	322	313	--	102	<10	240	3.2	.2	6.6	8
AUG 04...	.48	335	320	5	113	<10	340	--	--	--	--
18...	.40	280	271	4	102	<10	18	4.5	.3	7.5	4
SEP 07...	.51	322	308	39	125	14	54	4.8	.2	56	9
13...	.27	216	--	11	56.0	12	57	4.1	.2	12	6
17...	.47	95	80	--	26.9	62	150	6.7	>4.0	56300	388

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

REMARKS.--Selected samples were analyzed for volatile organic compounds (VOCs) on schedule 2020/2021 (listed with minimum reporting levels on pages 430-431). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	CARBON DI-SULFIDE WATER WHOLE TOTAL (µG/L) (77041)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (µG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µG/L) (34501)	ACETONE WATER WHOLE TOTAL (µG/L) (81552)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (µG/L) (77613)	BENZENE 123-TRI-METHYL-WATER UNFLTRD RECOVER (µG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µG/L) (34551)	BENZENE 124-TRI-METHYL UNFILT RECOVER (µG/L) (77222)	BENZENE 135-TRI-METHYL WATER UNFLTRD REC (µG/L) (77226)
JAN 1999											
05...	1250	<.74	<.064	<.132	<.088	<10	<.54	<.24	<.38	<.112	<.088
FEB 11...	1445	<.37	<.032	<.066	<.044	<5	<.27	<.12	<.19	E.0249	<.044
MAR 09...	1015	<.37	E.00795	<.066	<.044	<5	<.27	E.00752	<.19	E.0316	<.044
APR 08...	1530	<.37	<.032	<.066	<.044	<5	<.27	E.0441	<.19	.168	E.0545
MAY 06...	1000	<.37	<.032	<.066	<.044	E2.52	<.27	E.0444	<.19	.160	E.0565
JUN 03...	1440	E.00900	<.032	<.066	<.044	E3.05	<.27	<.12	<.19	E.00979	<.044
JUL 01...	0930	<.37	<.032	<.066	<.044	<5	<.27	<.12	<.19	<.056	<.044
AUG 04...	1140	<.37	<.032	<.066	<.044	<5	<.27	<.12	<.19	<.056	<.044
SEP 07...	1545	<.37	<.032	<.066	<.044	E3.65	<.27	E.0228	<.19	<.056	<.044
17...	1150	<.07	E.00837	<.066	<.04	E3.73	<.27	E.0365	<.19	.136	E.0439

## SCHUYLKILL RIVER BASIN

## 01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

## WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (µG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (µG/L) (34571)	ISO- PROPYL- BENZENE WATER WHOLE REC (µG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (µG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (µG/L) (77224)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (µG/L) (34536)	BENZENE TOTAL (µG/L) (34030)	BROMO- FORM TOTAL (µG/L) (32104)	CHLORO- BENZENE TOTAL (µG/L) (34301)	CHLORO- DI- BROMO- METHANE TOTAL (µG/L) (32105)	CHLORO- FORM TOTAL (µG/L) (32106)
JAN 1999											
05...	<.108	<.1	<.064	<.38	<.084	<.096	E.019	<.2	<.056	<.36	E.055
FEB											
11...	<.054	E.00691	<.032	<.19	<.042	<.048	E.0366	<.1	<.028	<.18	E.0841
MAR											
09...	<.054	E.00671	<.032	<.19	<.042	<.048	E.0311	<.1	<.028	<.18	E.0760
APR											
08...	<.054	<.05	<.032	<.19	E.0210	<.048	E.0738	<.1	<.028	<.18	.119
MAY											
06...	<.054	E.0101	E.00469	<.19	E.0163	<.048	E.0516	<.1	<.028	<.18	.131
JUN											
03...	<.054	<.05	<.032	<.19	<.042	<.048	E.0170	E.0249	<.028	E.0191	.119
JUL											
01...	<.054	<.05	<.032	<.19	<.042	<.048	E.0133	E.0573	<.028	E.0340	.206
AUG											
04...	<.054	<.05	<.032	<.19	<.042	<.048	E.0235	<.1	<.028	<.18	.142
SEP											
07...	<.054	E.0126	<.032	E.00933	<.042	<.048	<.1	<.1	<.028	E.0479	.182
17...	<.054	E.00935	<.032	<.19	E.0185	<.048	E.0168	<.06	<.028	<.18	E.0355
DATE	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (µG/L) (77093)	BROMO- DI- CHLORO- METHANE TOTAL (µG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (µG/L) (81576)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (µG/L) (50005)	ETHYL- BENZENE TOTAL (µG/L) (34371)	FURAN, TETRA- HYDRO- WATER UNFLTRD RECOVER (µG/L) (81607)	ISO- DURENE WATER UNFLTRD RECOVER (µG/L) (50000)	METHYL TERT- BUTYL ETHER WAT UNF REC (µG/L) (78032)	METHYL- CHLO- RIDE TOTAL (µG/L) (34418)	METHYL ENE CHLO- RIDE TOTAL (µG/L) (34423)	METHYL- KETONE WATER WHOLE TOTAL (µG/L) (81595)
JAN 1999											
05...	E.021	E.029	<.34	<.22	<.06	<18	<.4	E.18	<.5	<.76	<3.2
FEB											
11...	E.0222	<.048	<.17	<.11	E.0161	<9	<.2	.447	<.25	<.38	<1.6
MAR											
09...	E.0184	E.0213	<.17	<.11	E.0187	<9	<.2	.322	<.25	<.38	<1.6
APR											
08...	E.0160	E.0291	E.0695	<.11	E.0603	E.246	E.0240	1.37	<.25	E.0178	<1.6
MAY											
06...	E.0155	E.0342	<.17	E.0261	E.0465	<9	E.0265	1.37	<.25	E.0203	<1.6
JUN											
03...	E.0132	E.0433	<.17	E.0617	<.03	<9	<.2	5.73	E.0550	<.38	<1.6
JUL											
01...	E.0135	E.0676	<.17	E.0594	<.03	<9	<.2	3.86	<.25	E.0205	<1.6
AUG											
04...	E.0171	<.048	<.17	E.0646	<.03	<9	<.2	4.47	<.25	<.38	<1.6
SEP											
07...	<.038	E.0867	<.17	E.0911	<.03	<9	E.0178	2.32	<.25	<.38	<1.6
17...	E.0172	<.048	<.17	<.11	E.0204	<2.2	<.2	.377	<.5	E.0284	2.35
DATE	METHYL ISO- BUTYL KETONE WAT. WH. TOTAL (µG/L) (78133)	META/ PARA- XYLENE WATER UNFLTRD REC (µG/L) (85795)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (µG/L) (77275)	O- XYLENE WATER WHOLE TOTAL (µG/L) (77135)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (µG/L) (77356)	PREH- NITENE WATER UNFLTRD RECOVER (µG/L) (49999)	STYRENE TOTAL (µG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (µG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (µG/L) (77220)	TOLUENE TOTAL (µG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (µG/L) (39180)
JAN 1999											
05...	<.74	<.12	<.084	<.12	<.22	<.46	E.014	E.016	<.2	E.079	E.023
FEB											
11...	<.37	E.0566	<.042	<.06	<.11	<.23	<.042	E.0242	<.1	E.0986	E.0501
MAR											
09...	<.37	E.0847	<.042	E.0337	<.11	<.23	<.042	E.0223	<.1	.115	E.0314
APR											
08...	<.37	.371	<.042	.149	<.11	<.23	<.042	E.0204	E.0361	.303	E.0286
MAY											
06...	E.0873	.286	<.042	.118	<.11	<.23	<.042	E.0240	E.0274	.273	E.0251
JUN											
03...	<.37	<.06	<.042	E.0154	<.11	<.23	<.042	<.1	<.1	<.05	E.0195
JUL											
01...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	E.0168	<.1	<.05	E.0218
AUG											
04...	<.37	<.06	<.042	<.06	<.11	<.23	<.042	E.0200	<.1	<.05	E.0210
SEP											
07...	<.37	<.06	<.042	<.06	<.11	E.0306	<.042	E.0310	<.1	<.05	E.0237
17...	<.37	E.0800	<.042	E.0429	E.0127	<.23	<.042	E.0384	E.0343	.515	E.0241

SCHUYLKILL RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

REMARKS.--Selected samples were analyzed for pesticides on schedules 2001 and LCAA (listed with minimum reporting levels on pages 429 and 432). Only pesticides identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR	ACETO-CHLOR	ACETO-CHLOR	ALA-CHLOR	ALA-CHLOR	ALA-CHLOR	ALA-CHLOR	ATRA-ZINE
			ESA FLTRD	OA FLTRD	WATER FLTRD	OA FLTRD	(ESA) WAT FLT	CHLOR, WATER, DISS, REC,	CHLOR, WATER, DISS, REC,	ZINE, WATER, DISS, REC
			0.7 µM GF REC	0.7 µM GF REC	FLTRD REC	0.7 µM GF REC	GF REC	GF REC	GF REC	(µG/L)
			(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)
			(61029)	(61030)	(49260)	(61031)	(50009)	(46342)	(39632)	
JAN 1999										
05...	1250	ENVIRONMENTAL	--	--	<.002	--	--	<.002	.0389	
FEB										
11...	1445	ENVIRONMENTAL	--	--	<.002	--	--	<.002	.0301	
MAR										
09...	1015	ENVIRONMENTAL	--	--	<.002	--	--	<.002	.0270	
24...	1120	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.160	<.002	.0233	
APR										
08...	1530	ENVIRONMENTAL	--	--	<.002	--	--	<.002	.0260	
21...	1410	ENVIRONMENTAL	.23	<.05	<.002	<.05	.230	<.002	.0264	
MAY										
06...	1000	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.260	<.002	.0289	
20...	1220	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.110	<.002	.0382	
JUN										
03...	1440	ENVIRONMENTAL	<.05	<.05	.0323	<.05	.050	<.002	.321	
15...	1140	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.090	<.002	.107	
JUL										
01...	0930	ENVIRONMENTAL	<.05	<.05	<.002	<.05	.060	<.002	.0728	
14...	1340	ENVIRONMENTAL	<.05	<.05	<.002	<.05	<.050	<.002	.0666	
28...	1130	ENVIRONMENTAL	<.05	<.05	<.002	<.05	<.050	<.002	.0653	
AUG										
04...	1139	FIELD BLANK	<.05	<.05	<.002	<.05	<.050	<.002	<.001	
04...	1140	ENVIRONMENTAL	<.05	<.05	<.002	<.05	<.050	<.002	.0603	
18...	1210	ENVIRONMENTAL	<.05	<.05	<.002	<.05	<.050	<.002	.102	
SEP										
07...	1545	ENVIRONMENTAL	<.05	<.05	<.002	<.05	<.050	<.002	.0438	
13...	1010	ENVIRONMENTAL	<.05	<.05	<.002	<.05	<.050	<.002	.0348	
17...	1150	ENVIRONMENTAL	<.05	.06	<.002	<.05	<.050	<.002	.0463	

DATE	BEN-FLUR-ALIN	CAR-BARYL-WATER	CARBO-FURAN-WATER	CHLOR-PYRIFOS	CYANA-ZINE	DCPA-WATER	DEETHYL-ATRA-ZINE	DI-AZINON	DI-ELDRIN	EPTC-WATER
	WAT FLD	FLTRD	FLTRD	DIS-	WATER,	FLTRD	WATER,	DIS-	DIS-	FLTRD
	0.7 µ GF, REC	0.7 µ GF, REC	0.7 µ GF, REC	SOLVED	REC	0.7 µ GF, REC	0.7 µ REC	SOLVED	SOLVED	0.7 µ GF, REC
	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)
	(82673)	(82680)	(82674)	(38933)	(04041)	(82682)	(04040)	(39572)	(39381)	(82668)
JAN 1999										
05...	<.002	E.0196	<.003	<.004	.0087	<.002	E.0293	<.0250	<.001	<.002
FEB										
11...	<.002	<.003	<.003	<.004	<.004	<.002	E.0245	E.0033	<.001	<.002
MAR										
09...	<.002	<.003	<.003	<.004	<.004	<.002	E.0239	<.002	<.001	<.002
24...	<.002	<.003	<.003	<.004	<.004	<.002	E.0232	E.0028	<.001	<.002
APR										
08...	<.002	<.003	<.003	<.004	<.004	<.002	E.0282	<.002	<.001	<.002
21...	<.002	E.0148	<.003	<.004	<.004	<.002	E.0354	<.002	<.001	<.002
MAY										
06...	<.002	E.0045	<.003	<.004	<.004	<.002	E.0437	E.0036	<.001	<.002
20...	<.002	E.0292	<.003	<.004	<.004	E.0014	E.0276	.0092	<.001	<.002
JUN										
03...	<.002	E.0063	<.003	<.004	.0201	<.002	E.0388	.0106	<.001	<.002
15...	<.002	<.003	<.003	<.004	<.004	<.002	E.0376	.0055	<.001	<.002
JUL										
01...	<.002	<.003	<.003	<.004	<.004	<.002	E.0665	.0074	<.001	<.002
14...	<.002	<.003	<.003	<.004	<.004	<.002	E.0743	.0052	<.001	<.002
28...	<.002	<.003	<.003	<.004	<.004	<.002	E.0867	.0059	<.001	<.002
AUG										
04...	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002
04...	<.002	<.003	<.003	<.004	<.004	<.002	E.0684	.0044	<.001	<.002
18...	<.002	E.0509	<.003	<.004	.0221	<.002	E.0419	.0252	<.001	<.002
SEP										
07...	<.002	<.003	<.003	<.004	<.004	<.002	E.0458	<.01	<.001	<.002
13...	<.002	E.0165	<.003	<.004	<.004	E.0022	E.0230	.0388	<.001	<.002
17...	<.002	E.0558	<.003	<.004	<.02	<.002	E.0227	.0385	<.001	<.002

## SCHUYLKILL RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

## WATER-COLUMN PESTICIDE ANALYSES--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	LINDANE DIS- SOLVED (µG/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA- THION, DIS- SOLVED (µG/L) (39532)	METHYL AZIN- PHOS WAT FLT GF, REC (µG/L) (82686)	METOLA- CHLOR ESA FLTRD GF REC (µG/L) (61043)	METOLA- CHLOR OA FLTRD GF REC (µG/L) (61044)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P,P' DDE DISSOLV (µG/L) (34653)
JAN 1999										
05...	<.004	<.002	.0069	<.001	--	--	.0315	<.004	<.003	<.006
FEB										
11...	<.004	<.002	<.005	<.001	--	--	.0236	<.004	<.003	<.006
MAR										
09...	<.004	<.002	<.005	<.001	--	--	.0220	<.004	<.003	<.006
24...	<.004	<.002	<.005	<.001	.60	.13	.0169	<.004	<.003	<.006
APR										
08...	<.004	<.002	<.005	<.001	--	--	.0149	<.004	<.003	<.006
21...	<.004	<.002	<.005	<.001	.23	.11	.0140	<.004	<.003	<.006
MAY										
06...	<.004	<.002	<.005	<.001	.40	<.05	.0124	<.004	<.003	<.006
20...	<.004	<.002	.0128	<.001	.43	<.05	.0261	<.004	<.003	<.006
JUN										
03...	<.004	<.002	<.005	<.001	.19	<.05	.113	<.004	<.003	<.006
15...	<.004	<.002	<.005	<.001	.53	<.05	.0359	<.004	<.003	<.006
JUL										
01...	<.004	<.002	<.005	<.001	.420	<.05	.0296	<.004	<.003	<.006
14...	<.004	<.002	<.005	<.001	.14	<.05	.0196	<.004	<.003	<.006
28...	<.004	<.002	<.005	<.001	.13	<.05	.0172	<.004	<.003	<.006
AUG										
04...	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
04...	<.004	<.002	<.005	<.001	.14	<.05	.0148	<.004	<.003	<.006
18...	<.004	<.002	<.005	<.001	.14	<.05	.104	<.004	<.003	<.006
SEP										
07...	<.004	<.002	<.005	<.001	.23	<.05	.0247	<.004	<.003	<.006
13...	<.004	<.002	<.005	<.001	.05	<.05	.0227	<.004	<.003	<.006
17...	<.004	<.002	<.005	<.001	.26	.33	.151	<.004	<.003	<.006

DATE	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI- MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU- THIURON WATER FLTRD GF, REC (µG/L) (82670)	TER- BACIL WATER FLTRD GF, REC (µG/L) (82665)	TER- BUTHYL- AZINE, WATER, DISS, REC (µG/L) (04022)	TRI- FLUR- ALIN WAT FLT GF, REC (µG/L) (82661)
JAN 1999									
05...	<.004	E.0160	<.003	<.004	.0338	<.010	<.007	--	<.002
FEB									
11...	<.004	E.0066	<.003	<.004	.0239	E.0066	<.007	--	<.002
MAR									
09...	<.004	E.0066	<.003	<.004	.0144	E.0097	<.007	--	<.002
24...	<.004	E.0081	<.003	<.004	.0104	<.0767	<.007	--	E.0017
APR									
08...	<.004	E.0108	<.003	<.004	.0128	<.0767	<.007	--	<.002
21...	<.004	E.0110	<.003	<.004	.0707	.0121	<.007	--	<.002
MAY									
06...	<.004	E.0128	<.003	<.004	.0194	<.0767	<.007	--	<.002
20...	<.004	.0196	<.003	<.004	.0360	<.0767	<.007	--	<.002
JUN									
03...	.0060	.0301	<.003	<.004	.0896	<.0767	<.007	<.005	<.002
15...	<.004	.0242	<.003	<.004	.0753	<.010	<.007	.0236	<.002
JUL									
01...	<.004	.0340	<.003	<.004	.0749	<.0767	<.007	.0073	<.002
14...	<.004	.0580	<.003	<.004	.0680	E.0087	<.007	.0057	<.002
28...	<.004	.0342	<.003	<.004	.0621	<.0767	<.007	<.005	<.002
AUG									
04...	<.004	<.018	<.003	<.004	<.005	<.010	<.007	--	<.002
04...	<.004	.0284	<.003	<.004	.0557	E.0097	<.007	--	<.002
18...	<.004	.0761	<.003	<.004	.0440	.0189	<.007	--	<.002
SEP									
07...	<.004	.0648	<.003	<.004	.0317	.0299	<.007	<.005	<.002
13...	E.0036	.0600	<.003	<.004	.0233	.0384	<.007	<.005	<.002
17...	<.004	.0220	<.003	<.004	.0298	<.010	<.007	--	<.002





## SCHUYLKILL RIVER BASIN

## 01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	569	557	565	---	---	---
2	---	---	---	---	---	---	578	563	568	---	---	---
3	---	---	---	---	---	---	580	569	575	---	---	---
4	---	---	---	---	---	---	593	577	584	---	---	---
5	---	---	---	---	---	---	600	592	597	---	---	---
6	---	---	---	---	---	---	602	594	598	---	---	---
7	---	---	---	---	---	---	601	594	597	---	---	---
8	---	---	---	---	---	---	606	584	601	---	---	---
9	---	---	---	---	---	---	623	595	608	---	---	---
10	---	---	---	550	535	543	636	617	625	---	---	---
11	---	---	---	561	543	552	645	619	636	---	---	---
12	---	---	---	565	553	559	662	625	647	---	---	---
13	---	---	---	577	565	571	668	629	659	---	---	---
14	---	---	---	577	563	571	659	471	575	---	---	---
15	---	---	---	568	533	553	567	472	514	---	---	---
16	---	---	---	543	528	536	503	394	490	---	---	---
17	---	---	---	540	525	533	513	453	492	---	---	---
18	---	---	---	537	524	531	512	477	498	---	---	---
19	---	---	---	533	516	528	487	394	470	---	---	---
20	---	---	---	537	532	534	474	353	454	---	---	---
21	---	---	---	540	534	537	462	364	439	---	---	---
22	---	---	---	541	534	537	454	368	437	---	---	---
23	---	---	---	545	537	542	472	425	460	---	---	---
24	---	---	---	544	541	542	---	---	---	---	---	---
25	---	---	---	552	533	543	---	---	---	---	---	---
26	---	---	---	560	546	553	---	---	---	---	---	---
27	---	---	---	563	548	555	---	---	---	---	---	---
28	---	---	---	560	550	555	---	---	---	---	---	---
29	---	---	---	555	548	551	---	---	---	---	---	---
30	---	---	---	556	546	551	---	---	---	---	---	---
31	---	---	---	562	554	557	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.5	21.5	22.0	13.0	11.5	12.0	10.0	9.0	9.5	2.0	2.0	2.0
2	21.5	20.0	20.5	12.5	11.5	12.0	9.5	9.0	9.0	2.0	1.0	1.5
3	20.0	18.5	19.0	12.0	11.0	11.5	10.0	9.0	9.5	3.0	.5	1.5
4	18.5	17.5	18.0	11.5	11.0	11.0	11.0	9.5	10.0	3.0	.5	1.5
5	18.5	17.0	18.0	11.0	10.0	10.5	11.5	10.5	11.0	.5	.0	.5
6	18.5	17.5	18.0	10.5	9.5	10.0	12.0	11.0	11.5	.5	.0	.5
7	18.0	17.0	17.5	10.0	9.0	9.5	12.5	11.5	12.0	1.0	.5	.5
8	17.5	17.5	17.5	9.5	9.0	9.5	12.5	12.0	12.0	.5	.5	.5
9	17.5	17.0	17.0	10.0	9.0	9.5	12.0	11.5	12.0	.5	.5	.5
10	17.5	17.0	17.0	9.5	9.0	9.5	11.5	11.0	11.5	1.5	.5	1.0
11	17.5	16.5	17.0	11.0	9.5	10.5	11.0	10.5	11.0	---	---	---
12	17.0	16.5	16.5	11.0	10.0	10.5	---	---	---	---	---	---
13	17.0	16.5	17.0	10.0	10.0	10.0	---	---	---	---	---	---
14	17.5	16.5	17.0	10.5	9.5	10.0	---	---	---	---	---	---
15	17.0	16.0	16.5	11.0	10.0	10.5	---	---	---	---	---	---
16	17.0	16.0	16.5	10.5	10.0	10.5	---	---	---	---	---	---
17	16.5	15.5	16.0	11.0	10.0	10.5	---	---	---	---	---	---
18	16.5	15.5	16.0	11.0	10.0	10.5	---	---	---	---	---	---
19	17.0	16.0	16.5	10.5	10.0	10.0	---	---	---	---	---	---
20	16.5	16.0	16.0	11.0	10.0	10.5	---	---	---	---	---	---
21	16.0	15.0	15.5	10.5	10.0	10.0	---	---	---	---	---	---
22	15.0	14.0	14.5	10.5	9.5	10.0	8.0	7.0	7.5	---	---	---
23	14.5	13.5	14.0	10.0	9.5	10.0	7.0	5.5	6.0	---	---	---
24	14.5	13.0	14.0	10.0	9.5	10.0	5.5	5.0	5.0	6.5	5.0	5.5
25	14.5	13.0	14.0	10.0	9.5	9.5	5.0	4.5	5.0	6.5	4.0	5.5
26	14.5	13.0	14.0	9.5	9.0	9.5	4.5	3.5	4.0	4.5	4.0	4.0
27	14.5	13.5	14.0	9.5	9.0	9.0	3.5	3.5	3.5	4.5	4.0	4.5
28	14.0	13.0	13.5	9.0	8.5	9.0	4.0	3.5	3.5	5.0	4.0	4.5
29	13.5	13.0	13.5	9.5	8.5	9.0	4.0	3.5	3.5	5.5	5.0	5.0
30	13.5	12.5	13.0	9.5	9.0	9.5	4.0	3.5	3.5	5.5	4.5	5.0
31	13.0	12.0	12.5	---	---	---	3.5	2.0	2.5	4.5	3.5	4.0
MONTH	22.5	12.0	16.2	13.0	8.5	10.1	---	---	---	---	---	---

## SCHUYLKILL RIVER BASIN

## 01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	3.0	3.5	6.0	5.0	5.5	11.5	11.0	11.5	18.0	16.0	17.0
2	4.0	3.0	3.5	6.5	5.0	5.5	13.5	11.0	12.5	18.0	16.0	17.0
3	5.5	4.0	5.0	7.0	5.5	6.5	13.0	12.0	12.5	17.5	16.0	16.5
4	5.5	5.0	5.0	7.0	6.5	7.0	14.0	12.5	13.0	16.5	16.0	16.5
5	5.5	5.0	5.0	7.0	6.0	6.5	15.0	12.5	13.5	17.5	16.0	16.5
6	5.0	5.0	5.0	6.0	6.0	6.0	15.0	13.0	14.0	17.5	16.5	17.0
7	5.0	4.5	4.5	6.0	4.0	5.5	16.0	13.5	15.0	17.5	16.5	17.0
8	4.5	4.0	4.0	4.5	3.5	4.0	17.5	14.0	15.5	18.5	17.0	17.5
9	4.0	4.0	4.0	4.0	3.0	3.5	17.5	15.5	16.0	19.0	17.5	18.0
10	5.0	4.0	4.5	5.5	4.0	4.5	16.5	14.5	15.5	19.0	17.5	18.5
11	5.5	4.5	5.0	5.0	3.5	4.5	15.5	11.5	12.5	20.0	18.5	19.0
12	7.0	5.0	6.0	4.5	3.5	4.0	12.0	11.0	11.5	21.0	19.0	20.0
13	6.5	6.0	6.0	6.0	3.5	4.5	11.0	10.0	10.5	20.5	19.0	20.0
14	6.0	4.5	5.5	5.5	4.5	5.0	12.5	10.0	11.5	20.0	18.5	19.0
15	5.5	4.0	4.5	5.0	4.0	4.5	13.0	11.5	12.5	19.0	18.5	18.5
16	5.5	3.5	4.5	5.5	4.0	4.5	---	---	---	18.5	17.5	18.5
17	5.0	4.0	4.5	---	---	---	---	---	---	19.5	17.5	18.5
18	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
19	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
20	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
21	5.5	4.5	5.0	---	---	---	---	---	---	21.0	18.5	19.5
22	4.5	3.0	4.0	---	---	---	13.0	11.0	12.0	22.0	20.0	21.0
23	3.5	2.5	3.0	---	---	---	12.0	11.5	12.0	21.5	21.0	21.0
24	3.5	2.5	3.0	---	---	---	13.0	11.5	12.5	21.0	19.5	20.5
25	4.5	2.5	3.5	8.5	7.5	8.0	13.5	12.0	13.0	20.5	19.5	20.0
26	5.0	3.0	4.0	9.5	7.5	8.5	14.5	12.5	13.5	20.0	19.0	19.5
27	5.5	4.0	4.5	9.0	8.0	8.5	15.5	13.0	14.5	20.0	18.5	19.0
28	5.5	5.0	5.0	8.0	7.5	8.0	16.5	14.0	15.0	21.0	19.0	19.5
29	---	---	---	9.5	7.5	9.0	17.5	15.0	16.0	22.5	19.0	20.5
30	---	---	---	10.0	8.5	9.5	18.0	15.5	16.5	23.5	20.5	22.0
31	---	---	---	12.0	9.0	11.0	---	---	---	24.0	22.0	23.0
MONTH	7.0	2.5	4.5	---	---	---	---	---	---	24.0	16.0	19.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	3.0	3.5	6.0	5.0	5.5	11.5	11.0	11.5	18.0	16.0	17.0
2	4.0	3.0	3.5	6.5	5.0	5.5	13.5	11.0	12.5	18.0	16.0	17.0
3	5.5	4.0	5.0	7.0	5.5	6.5	13.0	12.0	12.5	17.5	16.0	16.5
4	5.5	5.0	5.0	7.0	6.5	7.0	14.0	12.5	13.0	16.5	16.0	16.5
5	5.5	5.0	5.0	7.0	6.0	6.5	15.0	12.5	13.5	17.5	16.0	16.5
6	5.0	5.0	5.0	6.0	6.0	6.0	15.0	13.0	14.0	17.5	16.5	17.0
7	5.0	4.5	4.5	6.0	4.0	5.5	16.0	13.5	15.0	17.5	16.5	17.0
8	4.5	4.0	4.0	4.5	3.5	4.0	17.5	14.0	15.5	18.5	17.0	17.5
9	4.0	4.0	4.0	4.0	3.0	3.5	17.5	15.5	16.0	19.0	17.5	18.0
10	5.0	4.0	4.5	5.5	4.0	4.5	16.5	14.5	15.5	19.0	17.5	18.5
11	5.5	4.5	5.0	5.0	3.5	4.5	15.5	11.5	12.5	20.0	18.5	19.0
12	7.0	5.0	6.0	4.5	3.5	4.0	12.0	11.0	11.5	21.0	19.0	20.0
13	6.5	6.0	6.0	6.0	3.5	4.5	11.0	10.0	10.5	20.5	19.0	20.0
14	6.0	4.5	5.5	5.5	4.5	5.0	12.5	10.0	11.5	20.0	18.5	19.0
15	5.5	4.0	4.5	5.0	4.0	4.5	13.0	11.5	12.5	19.0	18.5	18.5
16	5.5	3.5	4.5	5.5	4.0	4.5	---	---	---	18.5	17.5	18.5
17	5.0	4.0	4.5	---	---	---	---	---	---	19.5	17.5	18.5
18	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
19	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
20	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
21	5.5	4.5	5.0	---	---	---	---	---	---	21.0	18.5	19.5
22	4.5	3.0	4.0	---	---	---	13.0	11.0	12.0	22.0	20.0	21.0
23	3.5	2.5	3.0	---	---	---	12.0	11.5	12.0	21.5	21.0	21.0
24	3.5	2.5	3.0	---	---	---	13.0	11.5	12.5	21.0	19.5	20.5
25	4.5	2.5	3.5	8.5	7.5	8.0	13.5	12.0	13.0	20.5	19.5	20.0
26	5.0	3.0	4.0	9.5	7.5	8.5	14.5	12.5	13.5	20.0	19.0	19.5
27	5.5	4.0	4.5	9.0	8.0	8.5	15.5	13.0	14.5	20.0	18.5	19.0
28	5.5	5.0	5.0	8.0	7.5	8.0	16.5	14.0	15.0	21.0	19.0	19.5
29	---	---	---	9.5	7.5	9.0	17.5	15.0	16.0	22.5	19.0	20.5
30	---	---	---	10.0	8.5	9.5	18.0	15.5	16.5	23.5	20.5	22.0
31	---	---	---	12.0	9.0	11.0	---	---	---	24.0	22.0	23.0
MONTH	7.0	2.5	4.5	---	---	---	---	---	---	24.0	16.0	19.0