Water-Data Report 2008

01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA

Lower Delaware Basin
Schuylkill Subbasin

LOCATION.--Lat 40°14′30″, long 75°39′07″ referenced to North American Datum of 1927, Montgomery County, PA, 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^2.

SURFACE-WATER 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. Satellite and landline telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the U.S. Army Corps of Engineers, Philadelphia District, the Pennsylvania Department of Environmental Protection, and the Delaware River Basin Commission.

REMARKS.--Records good. Flow regulated by Blue Marsh Lake (station 01470870) since April 1979, by Still Creek Reservoir (station 01469200) since February 1933, and by Lake Ontelaunee.

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^3/s.

01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	352	1,430	1,650	3,850	2,230	3,270	2,170	1,780	1,310	564	547	438
2	341	1,300	1,470	3,540	6,150	3,080	2,260	1,680	1,240	524	557	401
3	345	1,010	1,770	3,050	4,060	2,780	1,950	1,500	1,100	467	580	397
4	397	930	1,800	2,450	4,010	2,440	2,120	1,460	1,300	484	587	517
5	444	871	1,560	2,130	3,580	9,490	2,420	1,510	2,500	605	529	612
6	447	870	1,360	2,020	3,070	15,300	2,220	1,460	1,910	681	513	1,660
7	436	785	1,240	1,950	3,020	9,790	2,020	1,320	1,220	695	485	2,640
8	434	643	1,180	1,930	2,980	8,380	1,860	1,230	1,090	779	478	972
9	464	564	1,140	1,800	2,740	10,400	1,770	1,750	970	677	449	1,010
10	654	543	1,520	1,760	2,610	8,780	1,740	1,910	930	714	548	941
11	794	531	1,690	1,700	2,300	7,270	1,700	1,650	1,040	570	764	803
12	852	510	1,530	1,950	1,950	5,430	1,930	1,490	883	501	846	673
13	827	541	2,040	1,800	7,400	4,600	1,840	1,370	814	474	708	1,210
14	625	599	2,780	1,690	9,730	4,030	1,660	1,250	765	951	574	944
15	531	1,180	2,920	1,660	6,800	3,580	1,570	1,190	818	822	950	769
16	542	1,730	4,630	1,540	5,110	3,330	1,470	1,630	754	616	816	605
17	528	1,320	3,590	1,460	4,210	3,010	1,410	2,240	730	530	638	519
18	516	1,110	2,660	1,670	5,810	2,680	1,370	2,270	732	498	557	500
19	580	1,380	2,180	1,740	7,680	3,050	1,340	2,510	707	468	495	476
20	624	1,580	1,960	1,550	6,280	5,560	1,320	2,400	662	452	456	495
21	644	1,780	1,810	1,340	5,140	4,810	1,520	2,630	630	503	422	511
22	581	1,900	1,730	1,280	3,940	3,990	1,500	2,290	618	439	408	512
23	535	1,840	1,830	e1,250	3,450	3,640	1,310	2,070	616	677	412	487
24	552	1,580	4,900	e1,200	3,070	3,320	1,270	1,770	681	1,260	418	437
25	765	1,380	4,980	1,180	2,840	3,170	1,250	1,630	630	796	415	393
26	883	1,730	3,720	1,130	2,940	2,970	1,170	1,530	588	593	410	443
27	2,820	2,990	3,360	1,120	5,540	2,850	1,280	1,460	581	888	399	484
28	4,760	3,060	2,680	1,080	4,980	2,740	1,820	1,580	631	905	395	694
29	2,370	2,340	3,640	1,050	3,620	2,370	2,850	1,440	608	589	395	1,360
30	1,750	1,910	3,430	1,160	---	2,070	2,200	1,250	600	516	537	1,060
31	1,590	---	3,930	1,230	---	1,990	---	1,240	---	630	470	---
Total	27,983	39,937	76,680	54,260	127,240	150,170	52,310	52,490	27,658	19,868	16,758	22,963
Mean	903	1,331	2,474	1,750	4,388	4,844	1,744	1,693	922	641	541	765
Max	4,760	3,060	4,980	3,850	9,730	15,300	2,850	2,630	2,500	1,260	950	2,640
Min	341	510	1,140	1,050	1,950	1,990	1,170	1,190	581	439	395	393

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,202	1,713	2,243	2,234	2,436	3,197	2,916	2,219	1,637	1,282	1,055	1,115
Max	3,870	4,444	7,359	7,383	5,117	8,948	7,820	7,220	7,634	3,940	5,290	3,952
(WY)	(1977)	(2007)	(1997)	(1979)	(1971)	(1936)	(1983)	(1989)	(1972)	(1984)	(1933)	(2004)
Min	258	309	419	316	540	1,101	875	729	462	302	301	256
(WY)	(1931)	(1931)	(1931)	(1981)	(1934)	(1981)	(1985)	(1965)	(1965)	(1966)	(1966)	(1932)

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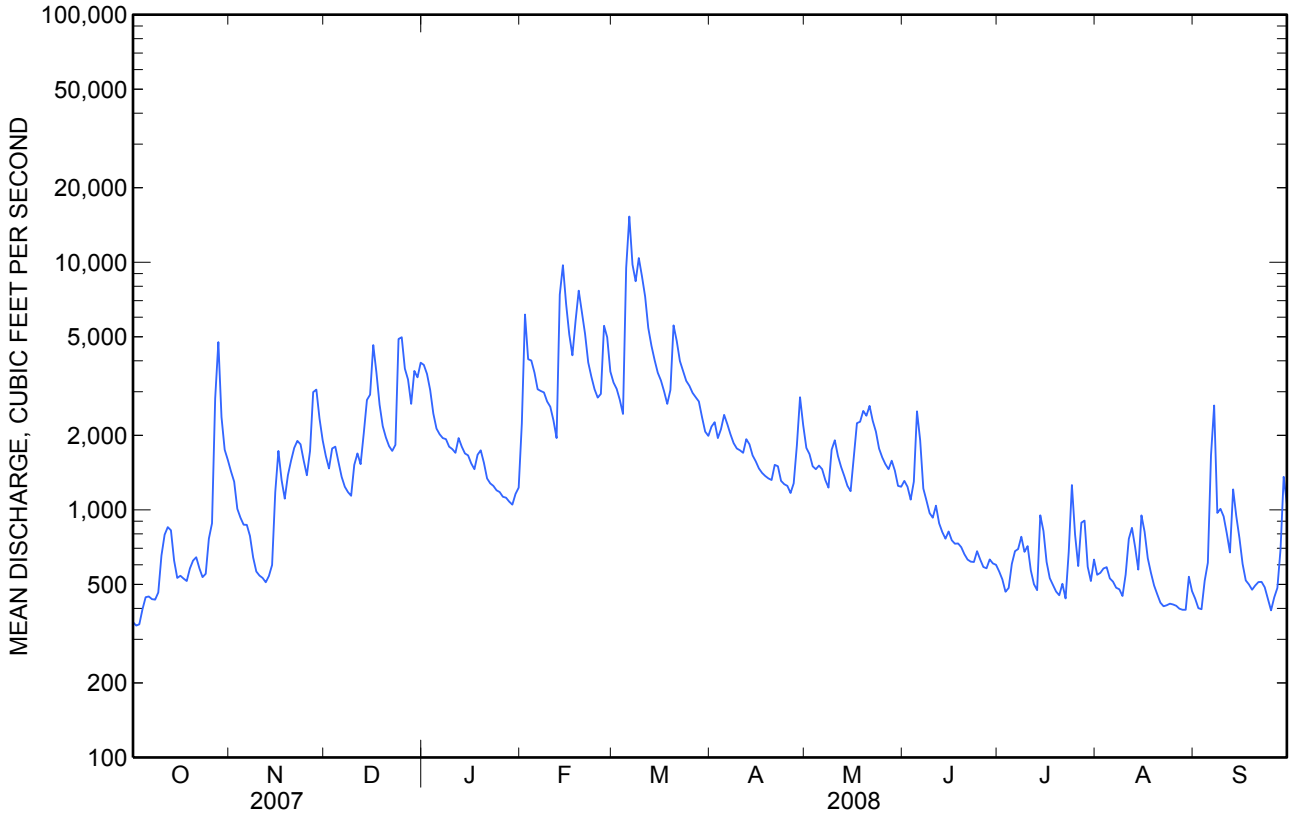
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1928 - 2008	
Annual total	662,065		668,317			
Annual mean	1,814		1,826		1,935	
Highest annual mean					3,211	1984
Lowest annual mean					843	1965
Highest daily mean	15,700	Apr 16	15,300	Mar 6	71,200	Jun 23, 1972
Lowest daily mean	341	Oct 2	341	Oct 2	175	Sep 19, 1932
Annual seven-day minimum	382	Sep 21	395	Oct 1	210	Sep 19, 1932
Maximum peak flow			19,500	Mar 6	[a]95,900	Jun 23, 1972
Maximum peak stage			11.59	Mar 6	[b]29.97	Jun 23, 1972
10 percent exceeds	4,010		3,640		3,900	
50 percent exceeds	1,220		1,320		1,320	
90 percent exceeds	456		485		480	

[a] From rating curve extended above 50,400 ft³/s.

[b] From floodmark.



01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA—Continued

WATER-QUALITY RECORDS

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

REMARKS.--Analyses for pH, water temperature, specific conductance, and dissolved oxygen were performed on site. All other sample analyses were performed at the Pennsylvania Department of Environmental Protection laboratory in Harrisburg, Pa.

COOPERATION.--Water-quality 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 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, µS/cm 25 degC (90095)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water unfltrd recoverable, mg/L (00916)	Magnesium, water, unfltrd recoverable, mg/L (00927)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Fluoride, water, unfltrd mg/L (00951)
Oct													
04...	1500	428	9.6	8.2	8.3	551	580	22.0	190	44.9	18.9	112	.2
Dec													
10...	1330	1,520	12.1	7.6	8.0	377	368	4.1	120	30.2	10.3	71	<.2
Feb													
04...	1240	3,990	14.4	7.9	8.0	311	324	3.4	120	32.0	9.1	73	<.2
Apr													
02...	1040	2,290	12.9	8.2	8.0	337	348	9.2	130	32.7	11.9	73	<.2
Jun													
02...	0800	1,260	7.7	7.8	8.0	338	349	19.5	140	33.6	12.4	78	<.2
Aug													
04...	1000	615	7.6	7.8	8.2	453	462	23.3	180	43.5	16.3	112	<.2

01472000 SCHUYLKILL RIVER AT POTTSTOWN, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 3
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total non-filter-able, 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)	Total nitro-gen, water, unfltrd mg/L (00600)	Ortho-phos-phate, water, unfltrd mg/L as P (70507)	Phos-phorus, water, unfltrd mg/L as P (00665)	Alum-inum, water, unfltrd recover-able, µg/L (01105)	Copper, water, unfltrd recover-able, µg/L (01042)	Cyanide amen-able to chlor-ination wat unf mg/L (00722)	Iron, water, unfltrd recover-able, µg/L (01045)
Oct													
04...	81.5	390	8	.050	3.94	<.040	4.3	.33	.359	<200	M	<1.00	100
Dec													
10...	36.4	242	14	.160	2.94	.050	3.5	.12	.121	<200	<4	<1.00	220
Feb													
04...	27.8	234	16	.050	3.87	<.040	4.1	.02	.064	200	<4	<1.00	440
Apr													
02...	47.8	248	8	.150	2.92	.060	3.3	.07	.093	<200	<4	<3.00	150
Jun													
02...	42.7	254	8	.030	2.44	<.040	2.9	.12	.144	<200	<4	<3.00	240
Aug													
04...	55.4	294	6	<.020	2.79	<.040	3.3	.19	.228	<200	<4	<3.00	190

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 3
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Lead, water, unfltrd recover-able, µg/L (01051)	Mangan-ese, water, unfltrd recover-able, µg/L (01055)	Nickel, water, unfltrd recover-able, µg/L (01067)	Zinc, water, unfltrd recover-able, µg/L (01092)	Phen-olic com-pounds, water, unfltrd µg/L (32730)
Oct					
04...	<1.0	50	<50	<10	<5
Dec					
10...	M	70	<50	10	<5
Feb					
04...	M	110	<50	10	<5
Apr					
02...	<1.0	120	<50	<10	<5
Jun					
02...	<1.0	70	<50	<10	<5
Aug					
04...	<1.0	80	<50	<10	<5