

## SCHUYLKILL RIVER BASIN

## 01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA

**LOCATION.**--Lat 40°16'22", long 75°40'49", Berks County, Hydrologic Unit 02040203, on left bank 180 ft upstream from bridge on Manatawny Street, 0.7 mi downstream from Ironstone Creek, 2.4 mi northwest of Pottstown, 3.1 mi upstream from mouth, and 4.7 mi southwest of Boyertown.

**DRAINAGE AREA.**--85.5 mi<sup>2</sup>.

**PERIOD OF RECORD.**--August 1974 to current year.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 150.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of June 22, 1972 reached a stage of 17.1 ft from floodmarks, discharge, about 9,600 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 1,800 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)
June 20	2030	*5,120	*9.55	Sept. 23	1515	2,860	7.14
Sept. 15	0845	2,770	7.03				

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	29	129	85	344	e95	112	197	98	301	145	71	64
2	24	103	78	467	e100	294	199	97	162	134	76	260
3	25	82	74	304	e105	355	172	91	113	129	75	181
4	52	73	e66	355	151	179	157	86	705	122	102	158
5	41	68	e72	249	113	333	171	86	363	135	254	114
6	32	143	e68	222	102	486	149	88	215	139	441	86
7	26	101	e75	200	84	251	157	85	356	109	150	75
8	24	76	e70	193	e80	233	176	92	380	122	113	69
9	23	70	e74	208	e78	417	267	88	231	102	99	65
10	27	66	e70	199	e82	298	272	87	184	104	426	61
11	422	70	e300	156	e80	194	400	83	156	132	163	59
12	316	125	640	133	e75	186	331	80	152	104	203	56
13	103	222	334	131	e65	231	227	74	262	86	123	96
14	68	112	747	123	e65	299	196	72	319	73	124	190
15	54	88	349	114	e60	223	187	69	178	62	97	1520
16	257	149	235	e110	e62	256	171	69	145	53	94	603
17	275	609	176	e100	e68	299	159	82	129	43	106	232
18	103	476	143	e98	e74	251	160	75	193	50	85	171
19	75	214	133	e96	e80	199	157	70	177	137	78	607
20	66	156	326	e100	e85	319	140	64	1290	75	72	232
21	56	135	257	e95	e90	782	134	86	1920	79	70	174
22	51	168	170	e90	e400	328	147	77	628	394	71	149
23	47	154	146	e85	935	246	132	71	424	662	98	1310
24	44	113	128	e80	429	210	119	91	309	149	68	391
25	45	100	293	e82	233	192	113	103	256	120	64	257
26	194	92	288	e86	169	187	163	344	222	97	62	292
27	107	116	195	e80	136	226	151	176	197	88	71	223
28	71	106	165	e75	124	173	116	118	184	82	65	507
29	71	92	154	e80	---	205	108	98	167	78	59	266
30	199	88	147	e85	---	316	104	83	156	71	65	203
31	244	---	163	e90	---	261	---	83	---	69	68	---
TOTAL	3171	4296	6221	4830	4220	8541	5332	2966	10474	3945	3713	8671
MEAN	102	143	201	156	151	276	178	95.7	349	127	120	289
MAX	422	609	747	467	935	782	400	344	1920	662	441	1520
MIN	23	66	66	75	60	112	104	64	113	43	59	56
CFSM	1.20	1.67	2.35	1.82	1.76	3.22	2.08	1.12	4.08	1.49	1.40	3.38
IN.	1.38	1.87	2.71	2.10	1.84	3.72	2.32	1.29	4.56	1.72	1.62	3.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2003, BY WATER YEAR (WY)

MEAN	80.7	107	147	165	170	207	191	154	112	85.1	60.7	77.1
MAX	245	231	511	499	356	470	450	390	349	312	138	289
(WY)	1997	1997	1997	1979	1984	1994	1993	1989	2003	1984	1990	2003
MIN	30.8	32.6	32.2	28.0	46.9	69.6	53.6	67.4	36.1	18.2	21.6	27.1
(WY)	2002	2002	1999	1981	2002	1981	1985	1987	1999	1999	1981	1983

e Estimated.

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1974 - 2003	
ANNUAL TOTAL	34265		66380			
ANNUAL MEAN	93.9		182		129	
HIGHEST ANNUAL MEAN					230	1984
LOWEST ANNUAL MEAN					63.4	1981
HIGHEST DAILY MEAN	1580	May 14	1920	Jun 21	3010	Jul 7 1984
LOWEST DAILY MEAN	16	Aug 14	23	Oct 9	11	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	16	Aug 14-16 <sup>a</sup>	32	Oct 3	12	Aug 1 1999
MAXIMUM PEAK FLOW			<sup>b</sup> 5120	Jun 20	<sup>b</sup> 7550	Sep 9 1987
MAXIMUM PEAK STAGE			9.55	Jun 20	11.46	Sep 9 1987
INSTANTANEOUS LOW FLOW			21	Oct 10	9.1	Aug 3 1999
ANNUAL RUNOFF (CFSM)	1.10		2.13		1.51	
ANNUAL RUNOFF (INCHES)	14.91		28.88		20.54	
10 PERCENT EXCEEDS	183		338		242	
50 PERCENT EXCEEDS	57		124		83	
90 PERCENT EXCEEDS	23		66		34	

<sup>a</sup> Also Aug. 18, 19.

<sup>b</sup> From rating curve extended above 2,780 ft<sup>3</sup>/s.

