



# 2004 Water Year SCHUYLKILL RIVER BASIN

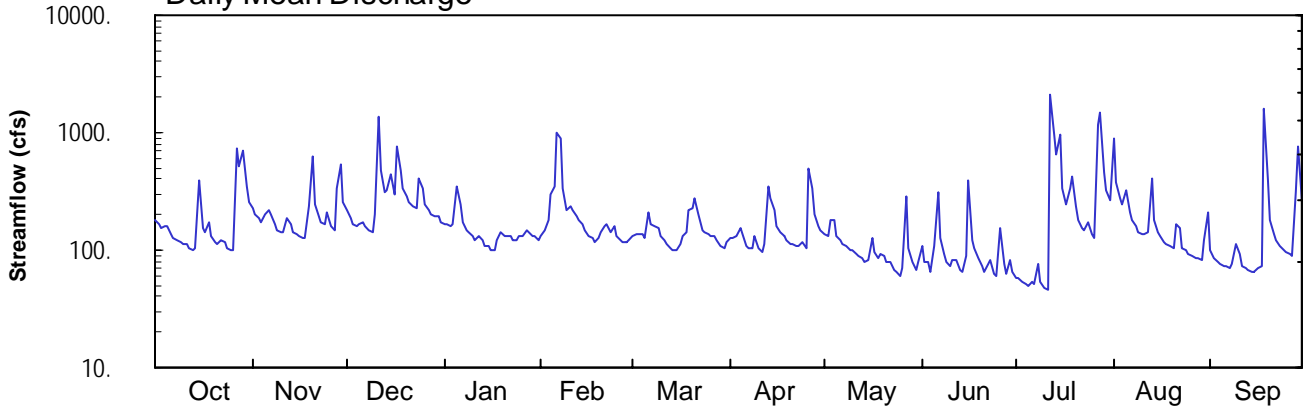
## 01471980 Manatwny Creek near Pottstown, PA

Latitude: 40° 16' 22"  
Berks County

Longitude: 075° 40' 49"  
Datum: 150.00 feet

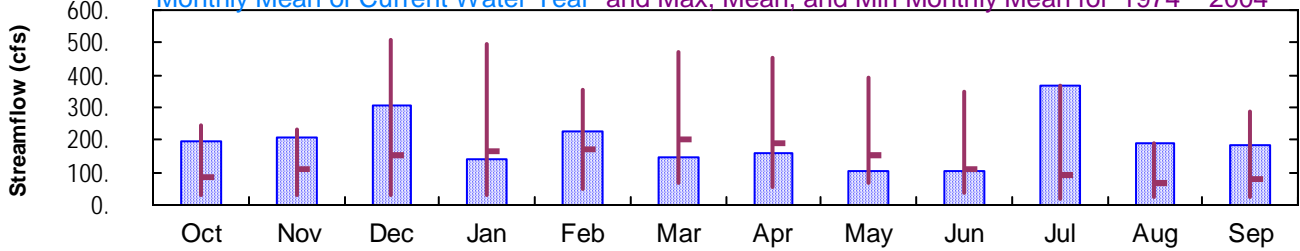
Hydrologic Unit Code: 02040203  
Drainage Area: 85.5 mi<sup>2</sup>

### Daily Mean Discharge

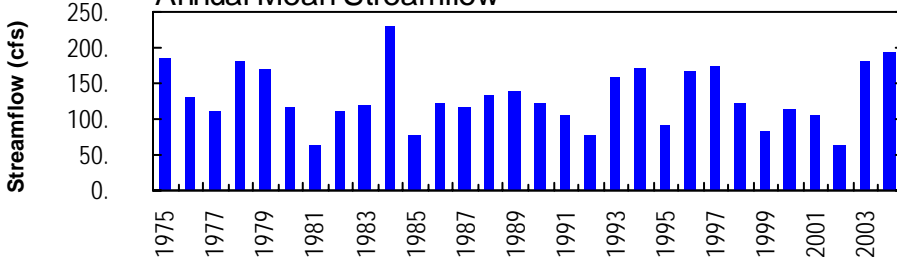


### Monthly Statistics

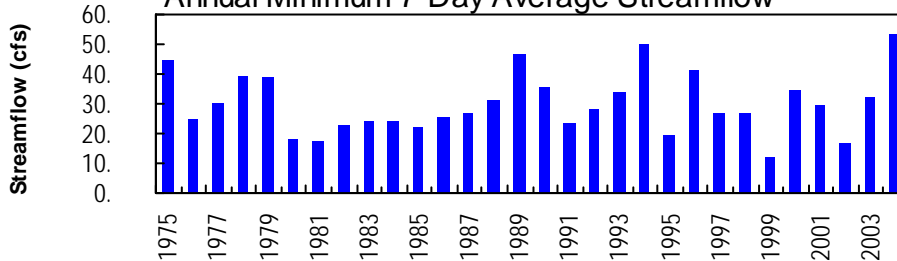
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1974 – 2004



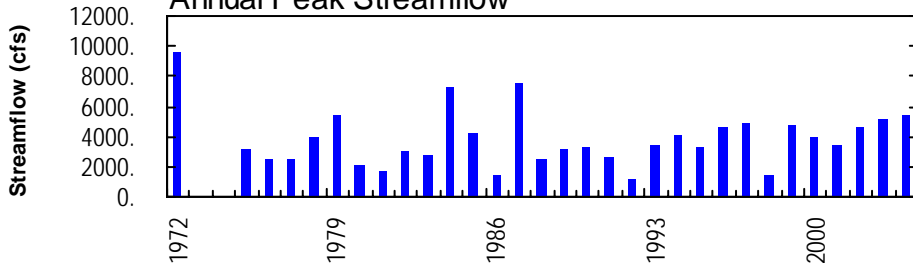
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



01471980--Manatwny Creek near Pottstown

**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)
Dec. 11	1245	1,830	5.65	July 27	1915	4,030	8.52
Feb. 6	2030	2,320	6.39	Aug. 1	0800	2,350	6.44
July 12	2200	*5,370	*9.76	Sept. 18	1900	3,070	7.41
July 14	2130	2,350	6.44				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	224	215	167	e130	129	125	134	109	59	887	100
2	166	201	189	163	e150	137	127	130	79	57	379	85
3	151	187	168	161	e180	137	133	180	80	54	280	79
4	161	174	158	169	e300	135	154	177	66	51	250	77
5	159	199	167	343	e350	127	139	133	108	50	318	74
6	135	216	175	243	e1000	206	110	122	310	53	211	74
7	125	203	158	e170	e900	166	103	113	127	52	179	72
8	120	164	147	e150	330	159	103	108	93	76	160	76
9	116	147	142	e140	221	156	133	101	80	54	144	113
10	114	141	205	e130	232	133	105	100	74	48	136	92
11	111	139	1380	e120	222	120	97	94	81	45	134	74
12	105	188	481	e130	192	114	112	88	82	2070	145	70
13	101	167	310	e120	182	103	350	84	66	974	409	67
14	102	142	327	e110	167	99	278	81	65	663	182	65
15	395	134	446	e110	145	99	215	82	90	968	143	65
16	151	129	303	e100	130	113	160	126	399	340	129	71
17	144	127	769	e100	127	133	142	97	120	250	117	72
18	172	125	472	e120	118	144	131	86	104	334	111	1580
19	134	240	336	e140	125	222	122	92	85	420	108	389
20	118	617	290	e130	139	226	114	90	73	232	105	180
21	114	244	254	e130	162	280	111	80	66	182	165	138
22	120	197	238	e130	167	204	107	78	76	154	156	120
23	116	173	231	e120	143	150	110	69	83	147	106	109
24	103	165	404	e120	159	140	116	64	64	174	98	101
25	100	213	333	e130	133	136	104	61	61	136	93	97
26	98	163	242	e130	122	131	504	71	156	127	88	93
27	718	148	219	e150	118	129	341	290	76	1160	86	88
28	513	335	203	e140	116	122	200	106	63	1480	85	307
29	693	525	195	e130	121	110	162	81	83	458	81	751
30	355	251	193	e130	---	105	146	69	65	321	121	267
31	259	---	176	e120	---	119	---	79	---	261	211	---
TOTAL	6150	6278	9526	4446	6581	4484	4854	3266	3084	11450	5817	5546
MEAN	198	209	307	143	227	145	162	105	103	369	188	185
MAX	718	617	1380	343	1000	280	504	290	399	2070	887	1580
MIN	98	125	142	100	116	99	97	61	61	45	81	65
CFSM	2.32	2.45	3.59	1.68	2.65	1.69	1.89	1.23	1.20	4.32	2.19	2.16
IN.	2.68	2.73	4.14	1.93	2.86	1.95	2.11	1.42	1.34	4.98	2.53	2.41

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)**

MEAN	84.6	110	152	164	172	205	190	152	111	94.6	64.8	80.6
MAX	245	231	511	499	356	470	450	390	349	369	188	289
(WY)	1997	1997	1997	1979	1984	1994	1993	1989	2003	2004	2004	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.

SCHUYLKILL RIVER BASIN

01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1974 - 2004	
ANNUAL TOTAL	74646		71482			
ANNUAL MEAN	205		195		131	
HIGHEST ANNUAL MEAN					230	
LOWEST ANNUAL MEAN					63.4	
HIGHEST DAILY MEAN	1920	Jun 21	2070	Jul 12	3010	Jul 7 1984
LOWEST DAILY MEAN	43	Jul 17	45	Jul 11	11	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	65	Aug 24	54	Jul 1	12	Aug 1 1999
MAXIMUM PEAK FLOW			a5370	Jul 12	a7550	Sep 9 1987
MAXIMUM PEAK STAGE			9.76	Jul 12	11.46	Sep 9 1987
INSTANTANEOUS LOW FLOW			44	Jul 11,12	9.1	Aug 3 1999
ANNUAL RUNOFF (CFSM)	2.39		2.28		1.54	
ANNUAL RUNOFF (INCHES)	32.48		31.10		20.90	
10 PERCENT EXCEEDS	370		337		246	
50 PERCENT EXCEEDS	151		134		85	
90 PERCENT EXCEEDS	74		76		34	

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