

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 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 150.00 ft above sea level (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 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 18	2400	2,630	6.67	Sept. 17	0100	*4,700	*9.14

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	34	39	38	e26	92	213	106	77	40	26	13	22
2	32	39	36	e25	304	120	110	75	42	27	12	21
3	31	39	36	473	236	101	98	74	56	26	11	23
4	41	39	35	e130	139	180	95	75	44	25	11	22
5	46	38	34	e44	115	124	96	75	39	22	12	31
6	37	38	34	e34	103	119	88	74	37	20	12	79
7	33	38	34	e30	98	145	85	73	36	18	11	70
8	258	38	36	e28	114	101	82	96	33	17	21	59
9	228	39	39	296	107	94	118	94	34	16	27	32
10	398	38	35	e140	98	96	278	73	32	18	21	69
11	117	48	33	e44	90	93	162	66	34	21	18	39
12	68	56	32	e36	96	87	197	65	33	20	18	28
13	58	42	32	e37	159	83	134	62	33	19	17	25
14	51	40	32	e35	106	87	112	62	40	18	150	25
15	49	40	30	e100	90	136	104	59	63	18	39	41
16	44	39	31	e120	88	152	118	57	39	17	25	1910
17	43	38	32	e90	89	140	139	57	36	17	20	1390
18	41	38	31	982	217	144	107	55	44	15	20	176
19	40	37	30	611	167	104	98	92	38	14	19	104
20	39	38	30	174	117	93	107	82	33	16	18	79
21	38	40	30	135	101	117	117	58	35	19	21	78
22	38	39	31	192	91	758	106	54	36	19	22	115
23	38	37	32	175	e78	246	117	66	33	20	21	81
24	38	38	30	570	e76	187	156	99	30	18	20	61
25	37	37	e30	287	e74	153	104	87	28	16	23	52
26	37	105	e30	174	e74	132	96	61	28	14	36	46
27	37	75	e29	133	e72	122	90	53	28	13	38	43
28	39	46	e29	117	114	140	85	50	27	13	30	43
29	42	41	e31	102	---	123	83	48	27	14	25	44
30	42	39	e30	91	---	107	80	44	26	14	22	279
31	39	---	e27	83	---	100	---	42	---	14	21	---
TOTAL	2113	1298	999	5514	3305	4597	3468	2105	1084	564	774	5087
MEAN	68.2	43.3	32.2	178	118	148	116	67.9	36.1	18.2	25.0	170
MAX	398	105	39	982	304	758	278	99	63	27	150	1910
MIN	31	37	27	25	72	83	80	42	26	13	11	21
CFSM	.80	.51	.38	2.08	1.38	1.73	1.35	.79	.42	.21	.29	1.98
IN.	.92	.56	.43	2.40	1.44	2.00	1.51	.92	.47	.25	.34	2.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1999, BY WATER YEAR (WY)

MEAN	83.0	112	151	176	177	207	197	157	102	86.4	60.1	72.4
MAX	245	231	511	499	356	470	450	390	266	312	138	191
(WY)	1997	1997	1997	1979	1984	1994	1993	1989	1982	1984	1990	1987
MIN	34.0	37.9	32.2	28.0	69.0	69.6	53.6	67.4	36.1	18.2	21.6	27.1
(WY)	1983	1982	1999	1981	1980	1981	1985	1987	1999	1999	1981	1983

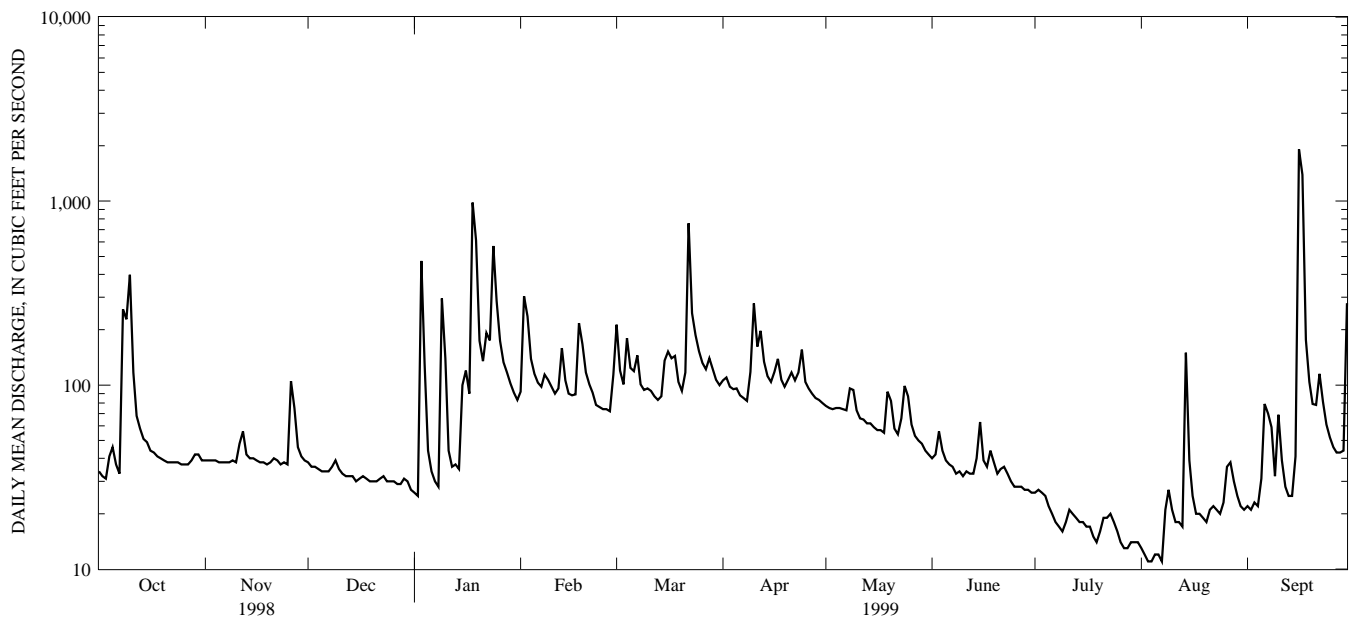
e Estimated.

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01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1974 - 1999	
ANNUAL TOTAL	44202		30908			
ANNUAL MEAN	121		84.7		131	
HIGHEST ANNUAL MEAN					230	1984
LOWEST ANNUAL MEAN					63.4	1981
HIGHEST DAILY MEAN	854	Apr 10	1910	Sep 16	3010	Jul 7 1984
LOWEST DAILY MEAN	e27	Dec 31	11	Aug 3, 4, 7	11	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	a29	Dec 25	12	Aug 1	12	Aug 1 1999
INSTANTANEOUS PEAK FLOW			b4700	Sep 17	b7550	Sep 9 1987
INSTANTANEOUS PEAK STAGE			9.14	Sep 17	11.46	Sep 9 1987
INSTANTANEOUS LOW FLOW			9.1	Aug 3	9.1	Aug 3 1999
ANNUAL RUNOFF (CFSM)	1.42		.99		1.54	
ANNUAL RUNOFF (INCHES)	19.23		13.45		20.86	
10 PERCENT EXCEEDS	230		142		243	
50 PERCENT EXCEEDS	74		42		85	
90 PERCENT EXCEEDS	36		20		34	

- a Computed using estimated daily discharges.
- b From rating curve extended above 2,780 ft³/s.
- e Estimated.



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