

## SCHUYLKILL RIVER BASIN

## 01472620 EAST BRANCH PERKIOMEN CREEK NEAR DUBLIN, PA

**LOCATION.**--Lat 40°24'14", long 75°14'05", Bucks County, Hydrologic Unit 02040203, on right bank 40 ft downstream from bridge on Bucks Road, 4.5 mi northeast of Perkasio, and 5.0 mi southeast of Quakertown.

**DRAINAGE AREA.**--4.05 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1983 to current year.

**GAGE.**--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 334.12 ft above sea level.

**REMARKS.**--No estimated daily discharges. Records good. Diversion since August 1989 from Delaware River at Point Pleasant to Bradshaw Reservoir (Geddes Creek Basin). Pumpage from reservoir enters the stream about 0.5 mi upstream of gage. See station 01472618, Distributary from Bradshaw Reservoir, for pumpage data. Peak flows are unregulated. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 350 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. 18	1715	479	4.18	Sept. 16	1700	*1,860	*8.57
Mar. 21	2330	675	5.01				

**REVISIONS.**--The annual maximum (\*) reported for water years 1984, 1985, 1989, 1993, 1994, 1996, and 1997 have been revised as shown in the following table. They supersede figures published in the reports for those years.

Water Year	Date	Discharge ft <sup>3</sup> /s	Gage Height (ft)
1984	July 7, 1984	*1,790	*8.41
1985	Sept. 27, 1985	*1,090	*6.50
1989	Sept. 20, 1989	*1,630	*8.03
1993	Aug. 17, 1993	*1,240	*6.94
1994	Nov. 28, 1993	*906	*5.87
1996	Jan. 19, 1996	*1,330	*7.22
1997	Oct. 19, 1996	*1,720	*8.24

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	57	60	62	53	20	37	15	35	58	60	58	58
2	61	60	62	40	61	20	16	35	58	60	58	58
3	62	60	62	80	29	20	16	35	58	60	58	58
4	62	60	62	35	24	43	15	35	58	60	49	58
5	62	60	61	35	22	15	15	31	58	60	56	58
6	62	60	60	36	21	24	15	35	58	59	58	58
7	62	60	60	35	20	26	22	35	59	60	58	57
8	71	60	60	35	20	19	33	35	54	60	58	56
9	67	60	60	50	19	18	56	35	60	58	58	57
10	71	60	60	41	18	18	73	35	60	49	50	62
11	46	60	60	36	15	18	65	35	61	50	56	62
12	62	60	60	38	19	17	67	35	62	56	56	62
13	62	60	60	41	28	17	61	36	64	56	57	60
14	62	60	60	36	19	16	59	55	64	56	56	58
15	62	60	60	56	17	8.5	58	55	64	57	56	59
16	62	60	60	39	17	24	62	55	64	60	57	528
17	62	60	60	51	17	37	63	55	62	60	58	35
18	62	60	60	138	57	25	57	56	60	60	58	34
19	58	60	60	39	24	20	34	55	60	60	58	46
20	54	60	60	22	20	19	30	55	60	60	58	56
21	58	60	60	21	18	86	35	55	52	60	58	57
22	58	60	57	26	17	116	34	55	60	60	58	65
23	58	60	50	32	16	26	42	55	60	60	58	60
24	58	60	50	90	16	23	39	57	60	60	56	58
25	58	60	51	33	15	20	35	57	60	60	56	58
26	58	61	52	26	15	18	34	55	60	52	55	56
27	58	62	53	23	15	17	35	57	60	58	60	56
28	59	62	53	22	21	18	36	58	60	58	59	56
29	60	62	53	21	---	17	35	45	60	49	58	58
30	60	62	53	20	---	16	35	58	60	58	58	70
31	60	---	53	20	---	16	---	58	---	58	58	---
TOTAL	1874	1809	1794	1270	620	814.5	1192	1448	1794	1794	1765	2174
MEAN	60.5	60.3	57.9	41.0	22.1	26.3	39.7	46.7	59.8	57.9	56.9	72.5
MAX	71	62	62	138	61	116	73	58	64	60	60	528
MIN	46	60	50	20	15	8.5	15	31	52	49	49	34

SCHUYLKILL RIVER BASIN

01472620 EAST BRANCH PERKIOMEN CREEK NEAR DUBLIN, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	53.3	39.8	30.4	24.7	19.0	28.9	26.5	43.5	53.0	56.4	58.7	58.3
MAX (WY)	1999	1999	1999	1999	1998	1993	1999	1997	1994	1998	1998	1999
MIN (WY)	1990	1991	1995	1993	1991	1991	1992	1996	1992	1990	1995	1995

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1990 - 1999

ANNUAL TOTAL	17091	18348.5	
ANNUAL MEAN	46.8	50.3	41.2
HIGHEST ANNUAL MEAN			50.3 1999
LOWEST ANNUAL MEAN			35.7 1990
HIGHEST DAILY MEAN	110 May 8	528 Sep 16	528 Sep 16 1999
LOWEST DAILY MEAN	15 Mar 31	8.5 Mar 15	1.4 Mar 11 1990
ANNUAL SEVEN-DAY MINIMUM	17 Mar 12	15 Mar 31	2.5 Apr 17 1990
INSTANTANEOUS PEAK FLOW		a1860 Sep 16	a1860 Sep 16 1999
INSTANTANEOUS PEAK STAGE		8.57 Sep 16	8.57 Sep 16 1999
10 PERCENT EXCEEDS	66	62	62
50 PERCENT EXCEEDS	58	58	42
90 PERCENT EXCEEDS	18	19	13

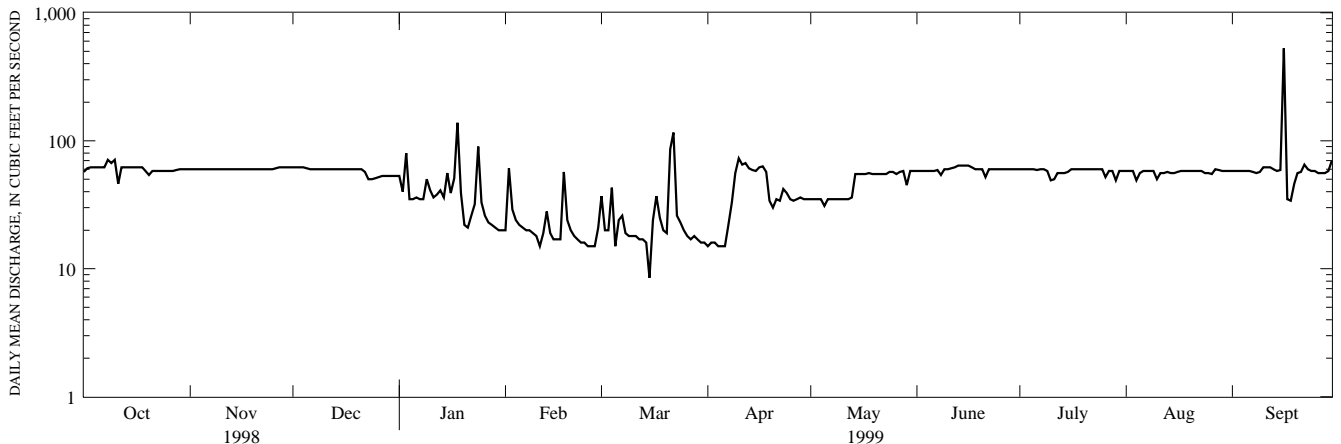
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1989, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.19	10.1	8.67	5.60	11.8	8.00	7.61	9.15	3.18	5.25	2.89	6.55
MAX (WY)	1986	1986	1984	1986	1984	1984	1984	1984	1989	1984	1989	1989
MIN (WY)	1987	1985	1989	1985	1987	1985	1985	1986	1987	1985	1987	1986

SUMMARY STATISTICS WATER YEARS 1984 - 1989

ANNUAL MEAN	6.63
HIGHEST ANNUAL MEAN	11.7 1984
LOWEST ANNUAL MEAN	3.60 1985
HIGHEST DAILY MEAN	418 Sep 20 1989
LOWEST DAILY MEAN	.00 Jul 20 1985
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 14 1985
INSTANTANEOUS PEAK FLOW	ab1790 Jul 7 1984
INSTANTANEOUS PEAK STAGE	8.41 Jul 7 1984
ANNUAL RUNOFF (CFSM)	1.50
ANNUAL RUNOFF (INCHES)	20.42
10 PERCENT EXCEEDS	13
50 PERCENT EXCEEDS	1.2
90 PERCENT EXCEEDS	.06

a From rating curve extended above 1,300 ft<sup>3</sup>/s.  
 b Revised.



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