

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>, not including distributary.

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

REVISED RECORD.--WDR PA-99-1: 1984, 1985, 1989, 1993, 1994, 1996, 1997 (M).

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 338.14 ft (revised) above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those below 10 ft<sup>3</sup>/s, which are poor, and those for estimated daily discharges, which are fair. 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. Pumpage into the creek was equivalent to an annual mean discharge of 26.7 ft<sup>3</sup>/s. 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)
Nov. 17	0230	705	5.12	Aug. 5	1815	521	4.37
Dec. 20	1300	438	3.99	Aug. 6	0530	438	3.99
June 4	0845	543	4.47	Sept. 23	0900	*997	*6.19
June 20	1700	372	3.68				

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	62	18	15	82	e10	14	19	56	34	62	55	34
2	62	16	15	40	e10	66	19	57	31	63	36	39
3	62	15	14	34	e10	41	17	61	29	64	35	32
4	62	15	14	31	e10	20	16	62	140	64	41	49
5	62	15	14	21	e10	49	17	62	59	64	87	39
6	62	27	15	21	e10	52	16	62	38	64	88	36
7	62	17	14	19	e10	23	16	62	63	64	42	35
8	62	16	14	23	e10	27	18	62	44	64	39	35
9	62	21	14	23	e10	65	54	62	36	64	30	35
10	62	34	14	18	e10	25	34	62	32	64	39	33
11	70	35	38	16	e10	19	42	62	31	64	39	30
12	67	52	70	15	e10	28	42	62	30	64	37	30
13	66	27	46	15	e10	40	21	62	35	64	36	34
14	64	19	77	14	e10	27	18	61	30	64	36	50
15	59	17	28	14	e10	27	12	60	32	64	35	73
16	48	27	21	13	e10	30	8.5	60	31	63	35	46
17	36	166	18	14	e33	33	5.4	61	31	63	35	35
18	30	53	16	14	e49	26	14	60	37	64	35	33
19	29	23	16	14	e25	21	14	60	40	64	35	77
20	29	19	83	14	31	59	14	60	143	64	34	36
21	28	18	28	10	38	60	14	60	66	65	34	33
22	28	21	21	4.9	65	25	18	60	40	66	34	32
23	28	19	18	0.45	111	19	16	61	35	43	34	161
24	28	17	17	0.45	56	18	14	62	31	37	34	39
25	28	16	37	0.45	28	17	14	63	30	36	34	34
26	47	15	28	0.46	20	17	15	87	30	47	34	33
27	32	19	22	1.9	16	19	15	36	29	63	34	36
28	30	17	20	e10	15	16	21	44	39	60	34	47
29	30	16	19	e10	---	25	46	54	57	64	34	35
30	41	16	18	e10	---	37	56	30	53	64	34	32
31	25	---	29	e10	---	24	---	29	---	64	34	---
TOTAL	1463	806	813	513.61	647	969	645.9	1802	1356	1884	1223	1293
MEAN	47.2	26.9	26.2	16.6	23.1	31.3	21.5	58.1	45.2	60.8	39.5	43.1
MAX	70	166	83	82	111	66	56	87	143	66	88	161
MIN	25	15	14	0.45	10	14	5.4	29	29	36	30	30

e Estimated.

## SCHUYLKILL RIVER BASIN

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

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	53.9	41.2	32.5	26.1	21.3	28.4	26.9	47.6	55.2	58.4	58.3	57.0
MAX	61.8	60.3	57.9	48.1	30.1	43.2	43.4	66.9	69.6	67.0	65.1	72.5
(WY)	2001	1999	1999	2002	2002	1993	2002	2001	2001	2001	2000	1999
MIN	23.8	12.8	14.5	16.6	12.3	17.2	16.4	32.2	34.8	44.5	39.5	43.1
(WY)	1990	1991	1995	2003	1991	1991	1992	1996	1992	1990	2003	2003

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1990 - 2003	
ANNUAL TOTAL	16142.41		13415.51			
ANNUAL MEAN	44.2		36.8		42.4	
HIGHEST ANNUAL MEAN					50.3	
LOWEST ANNUAL MEAN					35.7	
HIGHEST DAILY MEAN	166		Nov 17		528	
LOWEST DAILY MEAN	a0.00		Sep 24		a0.00	
ANNUAL SEVEN-DAY MINIMUM	5.3		Sep 19		2.5	
MAXIMUM PEAK FLOW					b1860	
MAXIMUM PEAK STAGE					8.57	
10 PERCENT EXCEEDS	64		64		64	
50 PERCENT EXCEEDS	53		33		43	
90 PERCENT EXCEEDS	15		14		14	

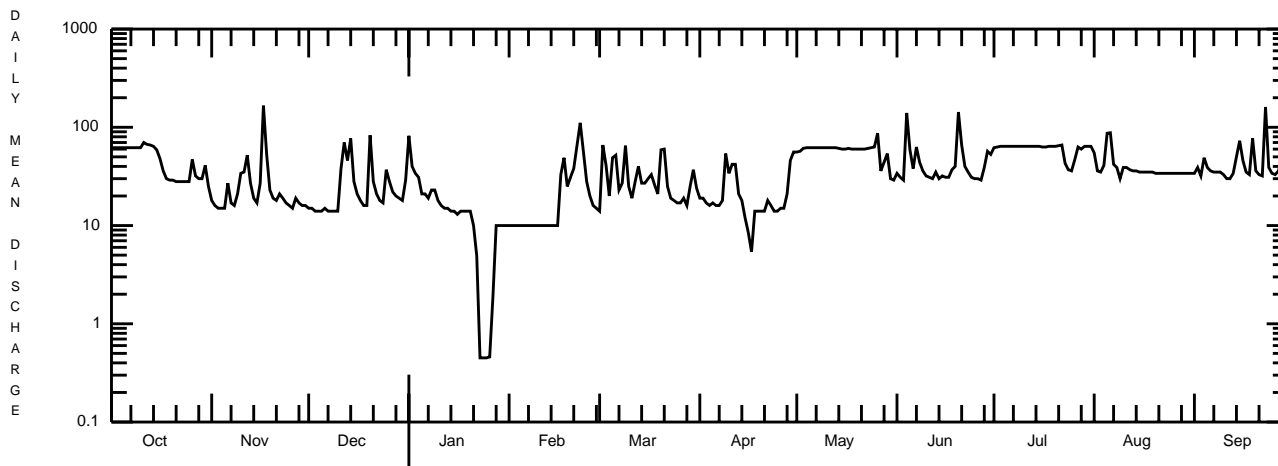
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1989, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	2.56	14.7	20.9	9.16	19.1	15.7	17.2	21.0	12.5	20.9	15.6	25.7
(WY)	1986	1986	1984	1986	1984	1984	1984	1984	1989	1984	1989	1989
MIN	.14	1.92	1.96	2.61	4.26	2.21	.91	.41	.090	.13	.025	.027
(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	
LOWEST ANNUAL MEAN	3.60	
HIGHEST DAILY MEAN	418	
LOWEST DAILY MEAN	.00	
ANNUAL SEVEN-DAY MINIMUM	.00	
MAXIMUM PEAK FLOW	b1790	
MAXIMUM PEAK STAGE	8.41	
ANNUAL RUNOFF (CFSM)	1.50	
ANNUAL RUNOFF (INCHES)	20.42	
10 PERCENT EXCEEDS	13	
50 PERCENT EXCEEDS	1.2	
90 PERCENT EXCEEDS	.06	

- a Result of no pumpage from the Delaware River diversion.  
b From rating curve extended above 1,300 ft<sup>3</sup>/s.



OCTOBER 1, 2002 TO SEPTEMBER 30, 2003