

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 mi², 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.--No estimated daily discharges. Records good except those below 10 ft³/s, which are poor. 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 41.5 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
May 13	1915	*562	*4.55	May 14	0000	451	4.05

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	60	58	44	25	60	18	36	62	62	62	61
2	62	57	58	50	20	60	16	44	62	62	56	62
3	62	61	58	52	17	51	17	37	62	62	58	60
4	62	60	58	66	17	19	17	32	62	62	63	60
5	62	60	58	66	16	17	16	32	62	62	64	60
6	62	60	58	66	16	17	16	31	68	63	64	60
7	62	60	58	64	16	16	15	31	71	64	63	60
8	62	60	58	56	16	16	15	51	74	64	63	60
9	62	60	58	52	15	16	15	64	74	63	63	60
10	62	60	58	59	15	16	35	64	74	63	62	60
11	63	60	58	66	17	15	56	62	74	63	62	60
12	64	60	48	65	16	15	56	59	74	63	62	60
13	64	60	38	63	15	17	56	139	74	60	62	60
14	64	60	38	60	15	17	59	71	72	61	62	47
15	64	60	33	32	15	16	64	27	66	62	62	55
16	64	58	33	28	15	16	64	30	64	62	62	62
17	63	58	30	28	15	15	62	29	64	62	62	61
18	48	58	31	27	15	33	62	51	64	62	62	37
19	45	58	30	58	15	22	62	32	64	52	62	11
20	62	58	30	58	49	77	62	29	63	50	58	0.22
21	62	58	30	58	64	30	64	28	62	64	62	0.09
22	59	58	31	57	60	20	65	28	62	64	62	0.06
23	62	58	31	53	60	17	64	28	62	63	62	0.04
24	64	58	33	61	60	14	64	28	62	51	62	0.00
25	63	58	32	35	60	12	38	56	62	50	62	26
26	62	58	31	30	60	13	32	64	62	64	62	61
27	64	58	46	29	60	34	33	64	67	64	61	68
28	64	58	62	29	60	17	83	64	68	63	61	65
29	64	58	62	28	---	16	41	62	64	62	62	61
30	62	58	62	29	---	16	36	62	64	62	62	61
31	60	---	51	22	---	16	---	62	---	62	61	---
TOTAL	1907	1768	1420	1491	844	736	1303	1497	1985	1893	1913	1398.41
MEAN	61.5	58.9	45.8	48.1	30.1	23.7	43.4	48.3	66.2	61.1	61.7	46.6
MAX	64	61	62	66	64	77	83	139	74	64	64	68
MIN	45	57	30	22	15	12	15	27	62	50	56	0.00

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	54.4	42.3	33.0	26.8	21.1	28.1	27.3	46.8	55.9	58.2	59.8	58.0
MAX (WY)	61.8	60.3	57.9	48.1	30.1	43.2	43.4	66.9	69.6	67.0	65.1	72.5
MIN (WY)	2001	1999	1999	2002	2002	1993	2002	2001	2001	2001	2000	1999
MIN (WY)	23.8	12.8	14.5	17.8	12.3	17.2	16.4	32.2	34.8	44.5	54.2	46.6
(WY)	1990	1991	1995	1993	1991	1991	1992	1996	1992	1990	1995	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1990 - 2002

ANNUAL TOTAL	18362	18155.41	
ANNUAL MEAN	50.3	49.7	42.8
HIGHEST ANNUAL MEAN			50.3 1999
LOWEST ANNUAL MEAN			35.7 1990
HIGHEST DAILY MEAN	116 Jun 16	139 May 13	528 Sep 16 1999
LOWEST DAILY MEAN	a14 Jan 3-7	b0.00 Sep 24	b0.00 Sep 24 2002
ANNUAL SEVEN-DAY MINIMUM	a14 Jan 1	5.3 Sep 19	2.5 Apr 17 1990
MAXIMUM PEAK FLOW		562 May 13	c1860 Sep 16 1999
MAXIMUM PEAK STAGE		4.55 May 13	8.57 Sep 16 1999
10 PERCENT EXCEEDS	68	64	64
50 PERCENT EXCEEDS	62	60	44
90 PERCENT EXCEEDS	19	16	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 (WY)	2.56	14.7	20.9	9.16	19.1	15.7	17.2	21.0	12.5	20.9	15.6	25.7
MIN (WY)	1986	1986	1984	1986	1984	1984	1984	1984	1989	1984	1989	1989
MIN (WY)	.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	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
MAXIMUM PEAK FLOW	c1790	Jul 7 1984
MAXIMUM PEAK STAGE	8.41	Jul 7 1984
ANNUAL RUNOFF (CFMS)	1.50	
ANNUAL RUNOFF (INCHES)	20.42	
10 PERCENT EXCEEDS	13	
50 PERCENT EXCEEDS	1.2	
90 PERCENT EXCEEDS	.06	

- a Computed using estimated daily discharges.
- b Result of no pumpage from the Delaware River diversion.
- c From rating curve extended above 1,300 ft³/s.
- e Estimated.

