

## SCHUYLKILL RIVER BASIN

## 01472810 EAST BRANCH PERKIOMEN CREEK NEAR SCHWENKSVILLE, PA

**LOCATION.**--Lat 40°15'31", long 75°25'45", Montgomery County, Hydrologic Unit 02040203, on left bank 600 ft upstream from Bergey's Mill bridge, and 2.0 mi east of Schwenksville.

**DRAINAGE AREA.**--58.7 mi<sup>2</sup>, not including distributary.

**PERIOD OF RECORD.**--January 1991 to current year.

**REVISED RECORD.**--WDR PA-96-1: 1993-95(P). WDR PA-99-1: 1996, 1997 (M).

**GAGE.**--Water-stage recorder and crest-stage gage. Elevation of gage is 150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

**REMARKS.**--Records fair except those for estimated daily discharges, which are poor. Diversion since August 1989 from Delaware River at Point Pleasant to Bradshaw Reservoir (Geddes Creek Basin). Pumpage from reservoir enters stream about 19 mi upstream of gage. Pumpage into the creek was equivalent to an annual mean discharge of 41.5 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 2,500 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)
May 14	0100	*2,780	*6.98	No other peak greater than base discharge.			

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	68	66	61	e67	78	63	77	130	78	73	64	81
2	68	64	61	e68	90	64	65	234	75	71	66	88
3	67	65	61	e73	56	199	62	338	74	70	73	71
4	67	64	61	e76	50	86	78	132	75	69	66	68
5	67	66	62	e81	44	54	60	101	74	68	66	66
6	67	64	62	e82	44	46	54	86	94	67	67	65
7	67	65	62	e81	40	43	50	78	262	68	64	65
8	67	65	65	e81	40	39	48	72	93	68	64	65
9	67	64	85	82	37	38	47	120	93	68	66	65
10	67	65	69	82	35	42	48	112	82	70	65	65
11	67	66	65	e106	38	39	78	95	79	67	63	64
12	67	67	63	148	37	37	82	94	77	67	64	65
13	67	68	48	104	35	44	83	501	89	67	64	66
14	67	68	51	84	33	54	83	1080	103	65	63	67
15	71	69	52	68	32	45	87	190	114	68	63	53
16	68	67	42	51	32	41	85	119	89	66	63	78
17	67	64	41	46	32	40	83	95	82	66	62	65
18	65	64	61	44	31	180	82	443	77	67	62	61
19	46	65	49	51	31	173	81	192	79	67	62	30
20	56	68	41	76	35	760	81	126	78	60	70	18
21	59	68	39	86	69	382	81	99	75	65	64	9.4
22	60	67	38	63	68	155	93	83	73	67	64	6.1
23	56	65	38	63	65	106	88	76	73	67	73	4.4
24	61	65	63	265	64	85	82	71	71	70	68	3.6
25	63	71	49	179	64	72	79	70	73	50	72	3.5
26	67	80	42	86	64	59	67	89	71	65	66	33
27	68	63	44	67	64	268	56	88	101	67	66	246
28	68	62	e63	57	64	117	281	86	189	67	66	206
29	69	62	76	53	---	86	279	83	87	67	96	89
30	69	63	e75	50	---	75	123	83	77	66	73	78
31	66	---	e68	76	---	70	---	80	---	65	68	---
TOTAL	2019	1980	1757	2596	1372	3562	2643	5246	2757	2068	2073	1945.0
MEAN	65.1	66.0	56.7	83.7	49.0	115	88.1	169	91.9	66.7	66.9	64.8
MAX	71	80	85	265	90	760	281	1080	262	73	96	246
MIN	46	62	38	44	31	37	47	70	71	50	62	3.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

MEAN	112	114	159	156	110	195	124	108	84.3	79.3	89.2	100
MAX	287	201	405	456	183	388	230	230	137	107	159	277
(WY)	1997	1994	1997	1996	2001	1994	1993	1998	2001	1996	1994	1999
MIN	65.1	66.0	52.1	70.7	49.0	115	43.2	60.9	57.8	56.3	52.5	64.8
(WY)	2002	2002	1996	1992	2002	2002	1992	1999	1993	1999	1997	2002

e Estimated.

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## 01472810 EAST BRANCH PERKIOMEN CREEK NEAR SCHWENKSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1991 - 2002	
ANNUAL TOTAL	38976		30018.0			
ANNUAL MEAN	107		82.2		121	
HIGHEST ANNUAL MEAN					154	1996
LOWEST ANNUAL MEAN					80.6	1992
HIGHEST DAILY MEAN	1240	Feb 10	1080	May 14	6020	Jan 19 1996
LOWEST DAILY MEAN	38	Dec 22, 23	3.5	Sep 25 <sup>a</sup>	3.5	Sep 25 2002 <sup>a</sup>
ANNUAL SEVEN-DAY MINIMUM	44	Dec 17	11	Sep 19	11	Sep 19 2002
MAXIMUM PEAK FLOW			2780	May 14	<sup>b</sup> 12300	Sep 16 1999
MAXIMUM PEAK STAGE			6.98	May 14	14.03	Sep 16 1999
10 PERCENT EXCEEDS	173		102		188	
50 PERCENT EXCEEDS	69		67		72	
90 PERCENT EXCEEDS	58		43		49	

<sup>a</sup> Result of no pumpage from the Delaware River diversion.

<sup>b</sup> From rating curve extended above 2,840 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow.

