

## 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 sea level, 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)
Dec. 17	1400	*8,920	*11.98	June 17	0630	2,520	6.69
June 16	1700	2,800	7.00				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	80	56	e57	320	81	195	76	85	336	66	68
2	74	79	51	e56	e233	73	128	e65	276	286	65	64
3	72	78	49	e56	e143	68	97	e67	128	112	51	65
4	81	78	50	e55	e88	66	80	76	97	115	53	66
5	242	78	e73	e54	e98	71	70	74	83	104	128	65
6	99	80	e69	e56	171	72	92	73	78	93	72	64
7	87	80	e60	e55	174	111	124	73	73	85	69	64
8	81	78	66	e55	154	176	114	73	70	83	67	64
9	78	78	e62	e67	125	172	126	72	67	84	66	64
10	65	106	57	e58	1240	140	196	71	65	78	84	65
11	63	88	53	e55	272	97	120	70	66	76	98	66
12	71	81	65	e74	128	81	209	70	65	74	251	59
13	71	80	61	e74	102	631	133	70	65	72	228	64
14	71	88	284	e75	109	222	96	67	63	70	95	71
15	70	69	147	e86	160	128	80	67	63	68	80	64
16	72	58	100	e106	134	118	137	67	531	69	75	62
17	73	56	3650	e109	291	198	104	67	956	66	73	63
18	95	79	403	e92	112	152	114	68	168	85	70	63
19	94	79	175	e340	81	99	89	66	123	73	69	63
20	81	78	124	595	73	81	72	66	104	69	69	102
21	78	76	e81	e181	72	275	67	87	98	68	68	183
22	77	71	e64	e112	e62	527	62	286	91	67	68	77
23	76	e67	e61	e80	e60	162	57	129	102	67	68	69
24	76	e65	e60	e61	57	108	54	84	121	66	69	68
25	76	e63	e59	e58	81	85	51	73	87	75	66	202
26	76	169	e59	e56	336	74	49	290	81	119	66	90
27	76	116	e58	e56	141	66	73	997	78	73	67	75
28	77	70	e57	e55	102	62	80	270	76	69	69	71
29	79	60	e57	e54	---	59	78	141	74	68	67	69
30	80	63	e59	e262	---	1030	77	107	79	69	66	67
31	80	---	e58	472	---	333	---	89	---	67	67	---
TOTAL	2565	2391	6328	3622	5119	5618	3024	3951	4113	2906	2570	2297
MEAN	82.7	79.7	204	117	183	181	101	127	137	93.7	82.9	76.6
MAX	242	169	3650	595	1240	1030	209	997	956	336	251	202
MIN	63	56	49	54	57	59	49	65	63	66	51	59

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

MEAN	116	119	170	163	115	202	127	102	83.6	80.5	91.2	103
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	74.2	79.1	52.1	70.7	60.2	119	43.2	60.9	57.8	56.3	52.5	67.2
(WY)	1998	1999	1996	1992	1992	1992	1992	1999	1993	1999	1997	1995

e Estimated.

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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001	
ANNUAL TOTAL	41293		44504			
ANNUAL MEAN	113		122		124	
HIGHEST ANNUAL MEAN					154	1996
LOWEST ANNUAL MEAN					80.6	1992
HIGHEST DAILY MEAN	3650	Dec 17	3650	Dec 17	6020	Jan 19 1996
LOWEST DAILY MEAN	<b>e</b> 43	Jan 22	49	Dec 3, Apr 26	28	Feb 13 1992
ANNUAL SEVEN-DAY MINIMUM	<b>a</b> 45	Jan 19	55	Jan 2	30	Feb 7 1992
MAXIMUM PEAK FLOW			<b>b</b> 8920	Dec 17	<b>b</b> 12300	Sep 16 1999
MAXIMUM PEAK STAGE			11.98	Dec 17	14.03	Sep 16 1999
10 PERCENT EXCEEDS	176		188		191	
50 PERCENT EXCEEDS	76		75		73	
90 PERCENT EXCEEDS	51		59		50	

- a** Computed using estimated daily discharges.
- b** From rating curve extended above 2,840 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow.
- e** Estimated.

