

## 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 40.2 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)
Mar. 22	0530	*3,090	*7.31	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	75	72	46	e50	91	73	62	86	67	154	74
2	86	276	66	46	e51	70	65	76	86	65	104	71
3	79	412	63	49	e51	54	61	72	83	67	240	69
4	102	129	62	72	e50	55	225	69	80	67	565	70
5	189	92	60	254	e50	55	129	81	80	65	126	68
6	117	80	479	109	e49	50	85	83	107	64	96	67
7	95	70	220	94	e48	47	72	82	92	64	91	67
8	85	64	124	86	e48	47	66	82	e79	63	88	67
9	82	60	95	82	e56	46	122	81	73	62	92	67
10	385	60	97	131	e50	44	132	82	71	63	e79	66
11	234	57	138	194	e48	45	80	84	69	62	e68	66
12	137	53	87	99	e48	240	72	79	150	62	84	66
13	113	52	77	82	e49	98	61	80	182	64	75	84
14	108	52	756	e52	e90	62	55	119	102	64	124	70
15	85	51	444	e58	e200	52	53	84	93	66	178	161
16	86	50	196	e52	e140	47	82	80	87	63	96	82
17	84	49	128	e50	e180	559	106	80	81	58	82	73
18	89	48	99	e48	e125	170	188	80	79	63	79	71
19	65	48	81	e47	e170	103	105	233	77	66	79	80
20	146	49	89	e46	e150	80	83	269	75	67	74	103
21	157	51	154	e44	e124	294	292	189	73	62	72	79
22	97	50	95	e43	e145	1620	369	141	234	66	71	74
23	119	50	75	e44	e200	246	167	161	99	62	71	72
24	91	51	66	e44	365	145	112	407	81	63	71	72
25	75	50	e60	e45	412	109	89	336	75	64	69	74
26	68	60	e62	e50	358	95	76	136	73	84	67	175
27	61	628	e53	e46	215	80	68	100	72	113	68	131
28	58	153	53	e44	427	573	63	88	71	76	259	94
29	55	88	50	e44	153	168	58	79	72	68	85	84
30	54	86	47	e58	---	109	52	78	69	256	77	78
31	60	---	47	e52	---	87	---	88	---	149	78	---
TOTAL	3368	3094	4195	2211	4102	5541	3261	3761	2751	2345	3562	2475
MEAN	109	103	135	71.3	141	179	109	121	91.7	75.6	115	82.5
MAX	385	628	756	254	427	1620	369	407	234	256	565	175
MIN	54	48	47	43	48	44	52	62	69	58	67	66

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

MEAN	120	123	166	168	109	204	130	99.9	78.3	79.1	92.1	106
MAX	287	201	405	456	168	388	230	230	102	107	159	277
(WY)	1997	1994	1997	1996	1998	1994	1993	1998	1997	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

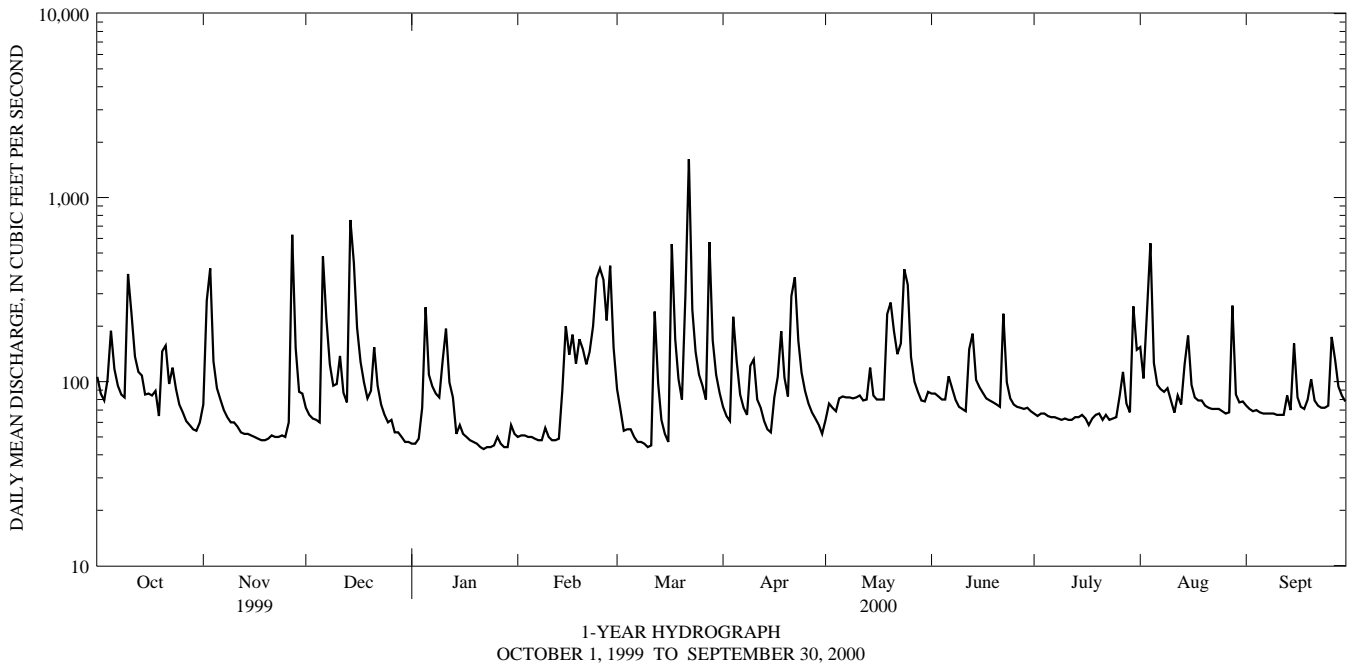
e Estimated.

SCHUYLKILL RIVER BASIN

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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000	
ANNUAL TOTAL	45768		40666			
ANNUAL MEAN	125		111		125	
HIGHEST ANNUAL MEAN					154	1996
LOWEST ANNUAL MEAN					80.6	1992
HIGHEST DAILY MEAN	4180	Sep 16	1620	Mar 22	6020	Jan 19 1996
LOWEST DAILY MEAN	41	Apr 7	<b>e</b> 43	Jan 22	28	Feb 13 1992
ANNUAL SEVEN-DAY MINIMUM	48	Apr 2	<b>a</b> 45	Jan 19	30	Feb 7 1992
INSTANTANEOUS PEAK FLOW			<b>b</b> 3090	Mar 22	<b>b</b> 12300	Sep 16 1999
INSTANTANEOUS PEAK STAGE			7.31	Mar 22	14.03	Sep 16 1999
10 PERCENT EXCEEDS	198		195		191	
50 PERCENT EXCEEDS	66		79		72	
90 PERCENT EXCEEDS	51		50		49	

- 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.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000