

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 mi².

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

REVISED RECORD.--WDR PA-96-1: 1993-95(P).

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. 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 18	1830	2,910	7.18	Sept. 16	2230	*12,300	*14.03
Mar. 22	0600	4,420	8.32				

REVISIONS.--The annual maximum (*) reported for water years 1996 and 1997 have been revised as shown in the following table. They supersede previously published figures.

Water Year	Date	Discharge ft ³ /s	Gage Height (ft)
1996	Jan. 19, 1996	*10,500	*12.97
1997	Oct. 19, 1996	*10,900	*13.21

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	75	74	e62	48	309	53	57	65	63	56	54
2	70	75	75	e54	386	140	57	55	65	64	55	54
3	74	74	76	e700	287	97	50	54	65	e64	56	54
4	79	75	76	182	140	377	48	54	63	e58	55	54
5	75	75	77	e69	99	146	46	53	62	e58	48	57
6	73	76	75	e60	76	126	43	50	61	e57	56	61
7	73	76	76	e69	67	218	41	52	62	e56	55	58
8	259	78	79	e100	84	99	50	53	57	56	67	62
9	187	78	78	e200	90	77	87	52	58	56	58	63
10	243	77	74	e250	82	70	302	50	61	55	56	95
11	105	90	73	e90	63	61	157	50	62	48	51	73
12	86	82	73	e100	63	53	215	50	62	50	58	63
13	83	78	72	e140	196	48	142	50	64	54	58	60
14	79	78	72	e120	102	48	118	57	69	55	298	60
15	76	78	71	e400	71	71	106	66	69	54	66	73
16	75	78	71	281	64	125	117	66	64	55	60	4180
17	74	78	73	237	61	225	168	68	63	54	59	1840
18	74	78	71	1180	467	209	115	67	63	54	56	153
19	75	77	70	419	240	107	91	71	61	55	55	96
20	70	80	71	143	132	77	79	68	61	60	55	83
21	71	80	72	99	92	325	80	62	64	59	56	105
22	72	78	74	135	68	2030	79	62	56	59	55	177
23	71	79	63	160	e49	267	86	70	63	59	54	119
24	70	79	60	765	e43	157	158	84	62	58	54	91
25	69	79	e66	318	47	122	94	80	62	58	54	79
26	67	109	e66	168	46	93	82	66	64	55	155	71
27	68	86	e75	114	43	78	73	65	63	55	114	68
28	72	76	70	94	66	79	70	70	64	57	72	67
29	77	75	69	74	---	73	65	65	64	55	61	66
30	75	75	70	61	---	60	61	57	63	49	58	171
31	75	---	e68	51	---	53	---	65	---	56	56	---
TOTAL	2792	2372	2230	6895	3272	6020	2933	1889	1882	1746	2167	8307
MEAN	90.1	79.1	71.9	222	117	194	97.8	60.9	62.7	56.3	69.9	277
MAX	259	109	79	1180	467	2030	302	84	69	64	298	4180
MIN	67	74	60	51	43	48	41	50	56	48	48	54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1999, BY WATER YEAR (WY)

MEAN	121	126	170	180	105	207	132	97.6	76.8	79.5	89.5	109
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.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1991 - 1999	
ANNUAL TOTAL	44908		42505			
ANNUAL MEAN	123		116		126	
HIGHEST ANNUAL MEAN					154	1996
LOWEST ANNUAL MEAN					80.6	1992
HIGHEST DAILY MEAN	1190	Apr 10	4180	Sep 16	6020	Jan 19 1996
LOWEST DAILY MEAN	38	Jun 11	41	Apr 7	28	Feb 13 1992
ANNUAL SEVEN-DAY MINIMUM	43	Jun 5	48	Apr 2	30	Feb 7 1992
INSTANTANEOUS PEAK FLOW			a12300	Sep 16	a12300	Sep 16 1999
INSTANTANEOUS PEAK STAGE			14.03	Sep 16	14.03	Sep 16 1999
10 PERCENT EXCEEDS	199		163		191	
50 PERCENT EXCEEDS	75		70		72	
90 PERCENT EXCEEDS	57		54		48	

a From rating curve extended above 2,840 ft³/s on basis of contracted-opening measurement of peak flow.

