

**SCHUYLKILL RIVER BASIN**

**01472199 WEST BRANCH PERKIOMEN CREEK AT HILLEGASS, PA**

**LOCATION.**--Lat 40°22'26", long 75°31'22", Montgomery County, Hydrologic Unit 02040203, on left bank 0.3 mi downstream from bridge on private road off Heffner Road, and 0.5 mi north of Hillegass.

**DRAINAGE AREA.**--23.0 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1981 to current year. Prior to October 1992, published as "Northwest Branch".

**GAGE.**--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 290.00 ft above sea level.

**REMARKS.**--Records good except those for estimated daily discharges and those above 560 ft<sup>3</sup>/s, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 800 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)
Jan. 18	1730	1,130	4.62	Sept. 16	1730	*2,090	*5.51

**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	5.8	8.0	9.6	e3.2	e20	66	31	21	14	7.6	3.7	3.7
2	5.9	7.9	9.0	e3.1	121	35	32	20	13	7.9	3.4	3.5
3	5.5	7.8	8.8	e95.5	75	30	28	19	17	8.4	3.2	3.8
4	7.2	7.8	8.7	e29	43	67	27	20	13	7.6	3.1	3.7
5	8.0	7.6	9.0	e19	34	37	26	20	12	6.8	3.2	3.8
6	6.5	7.7	9.0	e14	30	41	24	19	11	6.1	3.1	7.5
7	5.8	7.6	8.6	15	28	43	24	19	11	5.8	3.0	e6.3
8	91	7.5	8.8	11	32	e23	23	23	11	5.5	5.8	7.5
9	84	7.7	9.9	75	30	e23	36	26	10	5.4	5.5	5.2
10	156	7.8	8.9	e37	30	27	86	19	9.9	6.0	4.5	8.6
11	38	12	8.4	e16	27	25	48	17	10	6.9	3.8	6.8
12	23	12	8.1	e19	29	24	59	16	9.6	6.2	3.7	4.9
13	18	9.4	8.1	30	45	22	37	15	11	5.9	3.6	4.4
14	17	9.1	8.1	18	29	e21	31	15	13	5.8	35	4.2
15	15	8.9	7.8	e32	26	e23	29	14	20	5.7	8.4	9.8
16	12	8.6	7.8	e51	26	34	33	13	11	5.6	5.6	915
17	11	8.6	8.0	50	26	49	41	13	11	5.2	4.8	252
18	11	8.5	8.0	387	84	50	30	13	14	4.8	5.0	43
19	10	8.2	7.7	100	50	32	27	77	11	4.7	4.1	28
20	9.4	8.4	7.7	43	35	28	32	36	10	6.1	4.1	22
21	8.8	8.7	7.8	37	30	58	33	21	10	5.7	4.5	23
22	8.8	8.5	8.1	56	e22	294	30	17	11	5.4	4.5	31
23	8.7	8.2	7.9	57	e21	83	36	32	9.7	5.4	4.7	21
24	8.5	8.2	e7.0	217	e20	58	44	88	8.8	4.9	4.0	16
25	8.3	8.0	e6.5	85	e19	47	29	47	8.4	4.7	3.8	14
26	8.2	29	e6.0	51	e19	39	27	29	8.4	4.5	11	12
27	8.2	19	e7.0	38	21	35	25	24	8.2	4.7	10	11
28	8.3	12	e7.5	34	39	41	24	21	7.9	4.1	5.8	11
29	9.0	10	e8.0	29	---	35	23	18	8.0	4.1	4.6	11
30	8.8	9.9	e7.0	26	---	30	21	16	7.5	4.1	3.9	82
31	8.3	---	e3.3	23	---	28	---	14	---	4.2	3.7	---
TOTAL	634.0	292.6	246.1	1700.8	1011	1448	996	762	330.4	175.8	177.1	1575.7
MEAN	20.5	9.75	7.94	54.9	36.1	46.7	33.2	24.6	11.0	5.67	5.71	52.5
MAX	156	29	9.9	387	121	294	86	88	20	8.4	35	915
MIN	5.5	7.5	3.3	3.1	19	21	21	13	7.5	4.1	3.0	3.5
CFSM	.89	.42	.35	2.39	1.57	2.03	1.44	1.07	.48	.25	.25	2.28
IN.	1.03	.47	.40	2.75	1.64	2.34	1.61	1.23	.53	.28	.29	2.55

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1999, BY WATER YEAR (WY)**

MEAN	21.4	33.6	47.0	47.2	48.2	62.9	61.7	46.9	29.8	22.6	15.4	19.7
MAX	66.9	60.6	165	140	93.8	171	146	114	83.7	99.0	35.3	52.5
(WY)	1997	1993	1984	1996	1984	1994	1983	1989	1982	1984	1994	1999
MIN	7.85	8.61	7.94	15.7	22.4	23.4	16.4	22.9	11.0	5.67	5.71	5.47
(WY)	1983	1982	1999	1985	1992	1985	1985	1995	1999	1999	1999	1983

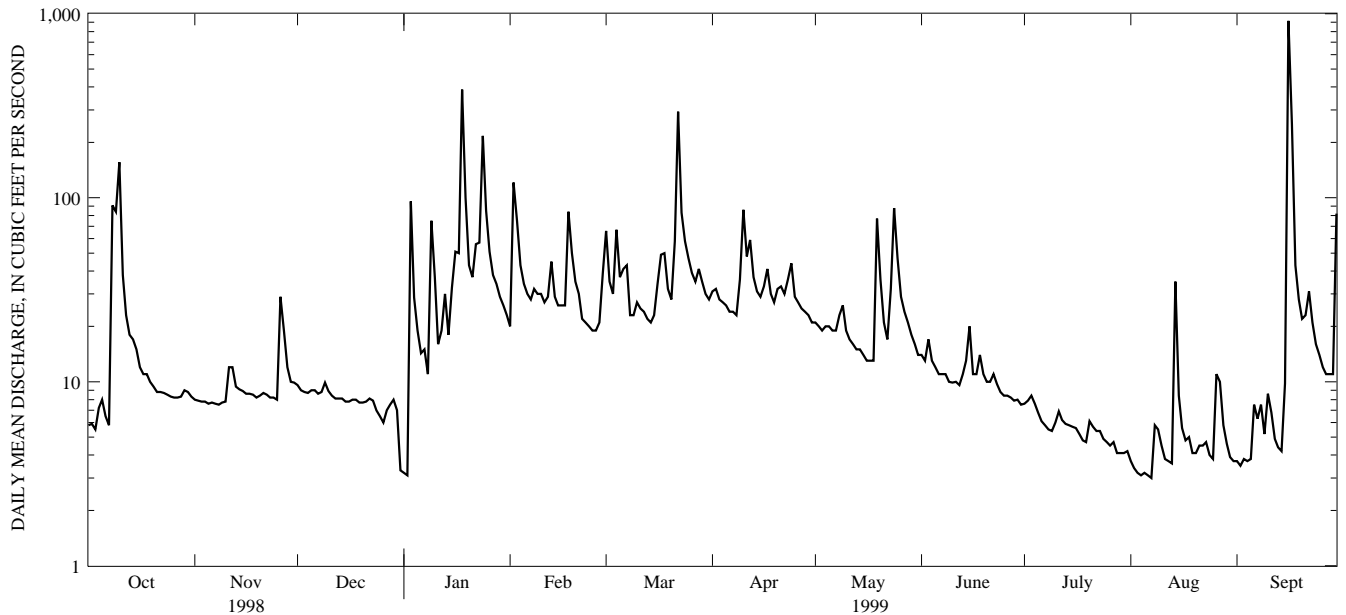
e Estimated.

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01472199 WEST BRANCH PERKIOMEN CREEK AT HILLEGASS, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1982 - 1999	
ANNUAL TOTAL	13061.2		9349.5			
ANNUAL MEAN	35.8		25.6		38.0	
HIGHEST ANNUAL MEAN					69.5	1984
LOWEST ANNUAL MEAN					21.1	1985
HIGHEST DAILY MEAN	261	Mar 9	915	Sep 16	1760	Jan 19 1996
LOWEST DAILY MEAN	e3.3	Dec 31	3.0	Aug 7	3.0	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	6.4	Oct 1	3.2	Aug 1	3.2	Aug 1 1999
INSTANTANEOUS PEAK FLOW			a2090	Sep 16	a4610	Jan 19 1996
INSTANTANEOUS PEAK STAGE			5.51	Sep 16	6.34	Jan 19 1996
INSTANTANEOUS LOW FLOW			b2.6	Dec 31	b2.6	Dec 31 1998
ANNUAL RUNOFF (CFSM)	1.56		1.11		1.65	
ANNUAL RUNOFF (INCHES)	21.13		15.12		22.43	
10 PERCENT EXCEEDS	78		46		74	
50 PERCENT EXCEEDS	22		12		23	
90 PERCENT EXCEEDS	7.8		4.7		7.9	

- a From rating curve extended above 560 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height 5.51 ft.
- b Result of freeze-up.
- e Estimated.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999