

## 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 fair 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 and landline 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)
Dec. 17	1200	*1,630	*5.11	July 26	0345	891	4.34

**REVISIONS.**--The peak discharges and annual maximum (\*) reported for water years 1982-85, 1987, 1989, 1990, 1993-96 have been revised as shown in the following table. They supersede previously published figures.

Water year	Date	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Water year	Date	Discharge ft <sup>3</sup> /s	Gage Height (ft)
1982	Feb. 3, 1982	*1,690	*5.16	1993	Nov. 23, 1992	*1,370	*4.86
1983	Apr. 10, 1983	*1,280	*4.77		Apr. 1, 1993	1,020	4.50
	Apr. 16, 1983	1,170	4.66	1994	Dec. 5, 1993	*1,440	*4.93
1984	Dec. 28, 1983	*2,110	*5.52		Nov. 28, 1993	1,070	4.55
	Dec. 13, 1983	1,530	5.01		June 6, 1994	1,300	4.79
	Apr. 5, 1984	1,130	4.62		June 29, 1994	1,030	4.51
	May 29, 1984	1,400	4.89		July 28, 1994	982	4.45
	June 25, 1984	1,590	5.07	1995	Mar. 8, 1995	*1,800	*5.26
	July 1, 1984	1,180	4.67	1996	Jan. 19, 1996	*3,270	*6.34
	July 7, 1984	2,010	5.44		Oct. 21, 1995	867	4.31
1985	Sept. 27, 1985	*1,620	*5.10		Jan. 27, 1996	1,070	4.55
1987	Sept. 9, 1987	*1,600	*5.08		Apr. 2, 1996	1,010	4.48
1989	May 6, 1989	*1,070	*4.55		Apr. 16, 1996	1,270	4.76
1990	May 29, 1990	*1,740	*5.21				
	Jan. 30, 1990	1,100	4.59				
	Aug. 7, 1990	1,000	4.47				

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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	11	9.7	18	e13	64	40	65	30	32	52	14	15
2	11	9.7	15	e12	e53	38	56	29	81	47	13	9.3
3	11	9.6	14	e11	e41	38	49	27	42	22	12	8.7
4	21	9.7	e13	e11	e32	39	46	26	34	25	19	9.2
5	57	9.6	e12	e10	e34	41	43	25	30	22	19	9.8
6	23	9.4	e11	e10	47	37	59	23	27	22	13	8.7
7	17	9.4	e11	e9.8	36	41	54	22	25	16	12	8.2
8	14	9.5	e11	e9.6	34	47	72	22	22	16	11	8.1
9	13	9.8	e10	e9.4	e32	51	63	23	20	18	10	8.0
10	13	30	e10	e9.4	e141	46	72	21	18	15	20	8.4
11	12	18	e9.5	e9.3	e64	45	63	19	18	14	36	8.6
12	11	13	e9.5	e9.1	e45	44	75	18	17	13	25	7.8
13	11	12	e9.3	e9.1	45	151	58	18	17	12	24	7.4
14	10	15	e53	e9.0	47	77	49	16	16	12	16	7.7
15	10	18	37	e16	66	57	46	16	16	12	13	8.2
16	9.9	13	40	e19	64	53	79	16	51	11	12	7.4
17	11	12	665	e18	82	64	55	16	61	12	12	7.3
18	34	11	103	e15	47	53	91	18	28	25	11	7.3
19	24	11	58	e88	41	44	60	18	21	13	11	7.3
20	15	11	47	92	39	41	50	16	18	12	11	16
21	14	e9.9	e40	e47	e34	74	48	31	18	11	10	31
22	12	e9.7	e35	e35	e32	93	46	115	49	10	9.8	11
23	12	e9.3	e32	e32	e32	54	43	58	113	9.9	10	9.1
24	12	e9.3	e29	e31	32	47	41	33	35	9.8	12	8.8
25	11	e9.1	e26	e29	43	43	37	27	25	33	9.9	80
26	11	e61	e23	e26	82	40	36	96	20	256	9.3	20
27	11	36	e20	e24	53	37	35	175	17	32	9.6	13
28	10	22	e19	e22	46	36	33	68	16	21	12	11
29	9.8	19	e17	e21	---	36	31	44	15	17	9.6	10
30	9.8	25	e15	e67	---	264	30	39	15	17	9.1	9.4
31	9.7	---	e14	86	---	89	---	32	---	15	9.0	---
TOTAL	461.2	460.7	1426.3	809.7	1408	1860	1585	1137	917	822.7	424.3	381.7
MEAN	14.9	15.4	46.0	26.1	50.3	60.0	52.8	36.7	30.6	26.5	13.7	12.7
MAX	57	61	665	92	141	264	91	175	113	256	36	80
MIN	9.7	9.1	9.3	9.0	32	36	30	16	15	9.8	9.0	7.3
CFSM	.65	.67	2.00	1.14	2.19	2.61	2.30	1.59	1.33	1.15	.60	.55
IN.	.75	.75	2.31	1.31	2.28	3.01	2.56	1.84	1.48	1.33	.69	.62

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001, BY WATER YEAR (WY)

MEAN	21.2	32.1	46.4	44.8	48.1	63.8	60.9	46.0	29.8	22.3	15.7	19.1
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

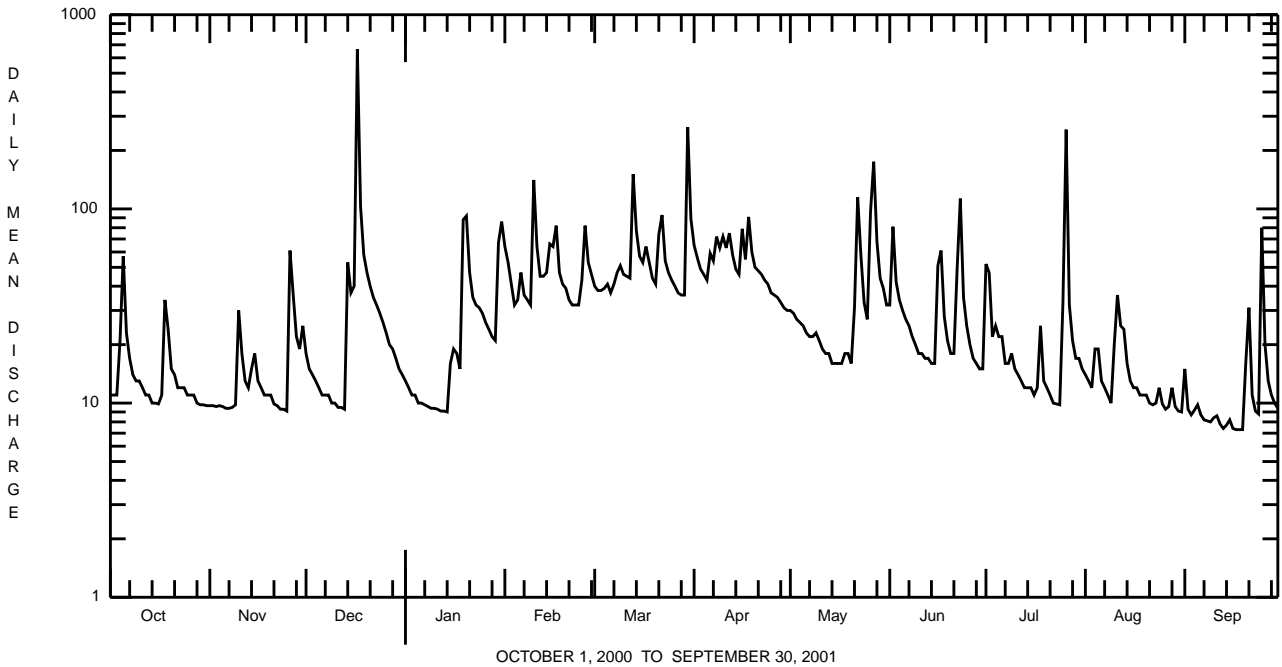
e Estimated.

SCHUYLKILL RIVER BASIN

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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001	
ANNUAL TOTAL	12187.9		11693.6			
ANNUAL MEAN	33.3		32.0		37.5	
HIGHEST ANNUAL MEAN					69.5	1984
LOWEST ANNUAL MEAN					21.1	1985
HIGHEST DAILY MEAN	665	Dec 17	665	Dec 17	1760	Jan 19 1996
LOWEST DAILY MEAN	8.4	Sep 12	7.3	Sep 17,18	3.0	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	8.5	Sep 6	7.5	Sep 13	3.2	Aug 1 1999
MAXIMUM PEAK FLOW			a1630	Dec 17	a3270	Jan 19 1996
MAXIMUM PEAK STAGE			5.11	Dec 17	6.34	Jan 19 1996
INSTANTANEOUS LOW FLOW			b5.4	Nov 23	b2.6	Dec 31 1998
ANNUAL RUNOFF (CFSM)	1.45		1.39		1.63	
ANNUAL RUNOFF (INCHES)	19.71		18.91		22.13	
10 PERCENT EXCEEDS	61		62		73	
50 PERCENT EXCEEDS	21		20		23	
90 PERCENT EXCEEDS	10		9.5		8.1	

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.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001