

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 mi².

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 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 22	0115	*1,410	*4.90	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	30	12	20	19	e15	51	48	32	25	16	72	11
2	20	36	18	19	e13	44	46	34	24	14	51	22
3	16	64	18	21	e12	37	44	31	22	14	92	12
4	24	26	17	24	e13	33	62	29	21	14	104	11
5	50	20	16	34	e13	31	47	28	20	13	31	9.3
6	27	18	79	22	e13	29	40	27	48	12	25	8.5
7	20	16	43	20	e13	27	36	26	31	12	26	8.6
8	17	15	28	19	e11	27	35	24	23	11	21	8.6
9	16	14	25	18	e11	26	81	23	21	11	22	8.5
10	103	13	27	50	e13	26	59	25	19	11	18	8.5
11	59	14	31	57	e16	44	41	28	17	10	15	8.5
12	32	13	24	31	e19	116	39	23	68	10	14	8.4
13	27	13	23	27	e13	47	34	31	56	9.7	13	22
14	31	13	142	22	58	36	33	67	47	10	21	11
15	24	12	107	21	63	33	34	27	35	13	31	31
16	20	12	57	22	50	33	40	24	31	13	16	13
17	19	11	40	e11	52	152	49	22	27	11	13	10
18	18	11	34	e11	36	59	65	21	37	10	12	9.7
19	16	11	30	e12	49	46	42	56	31	11	14	23
20	22	11	41	e15	39	40	37	73	24	12	12	62
21	24	13	63	e13	37	193	174	51	25	11	11	18
22	18	12	36	e12	42	659	139	41	83	18	10	13
23	23	12	30	e13	52	132	79	42	31	11	11	12
24	18	13	27	e13	82	95	60	104	25	10	12	13
25	16	13	e23	e12	113	77	50	104	22	11	11	12
26	15	23	23	e16	114	69	44	46	23	14	9.7	27
27	14	130	23	e13	89	60	44	36	21	30	8.7	24
28	13	39	22	e12	163	175	41	34	19	15	10	15
29	13	28	20	e12	68	77	37	31	18	13	11	13
30	12	24	19	e12	---	63	34	28	17	21	11	12
31	12	---	20	e15	---	54	---	27	---	30	13	---
TOTAL	769	662	1126	618	1282	2591	1614	1195	911	421.7	741.4	465.6
MEAN	24.8	22.1	36.3	19.9	44.2	83.6	53.8	38.5	30.4	13.6	23.9	15.5
MAX	103	130	142	57	163	659	174	104	83	30	104	62
MIN	12	11	16	11	11	26	33	21	17	9.7	8.7	8.4
CFSM	1.08	.96	1.58	.87	1.92	3.63	2.34	1.68	1.32	.59	1.04	.67
IN.	1.24	1.07	1.82	1.00	2.07	4.19	2.61	1.93	1.47	.68	1.20	.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY)

MEAN	21.6	33.0	46.4	45.8	48.0	64.0	61.3	46.4	29.8	22.1	15.8	19.4
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

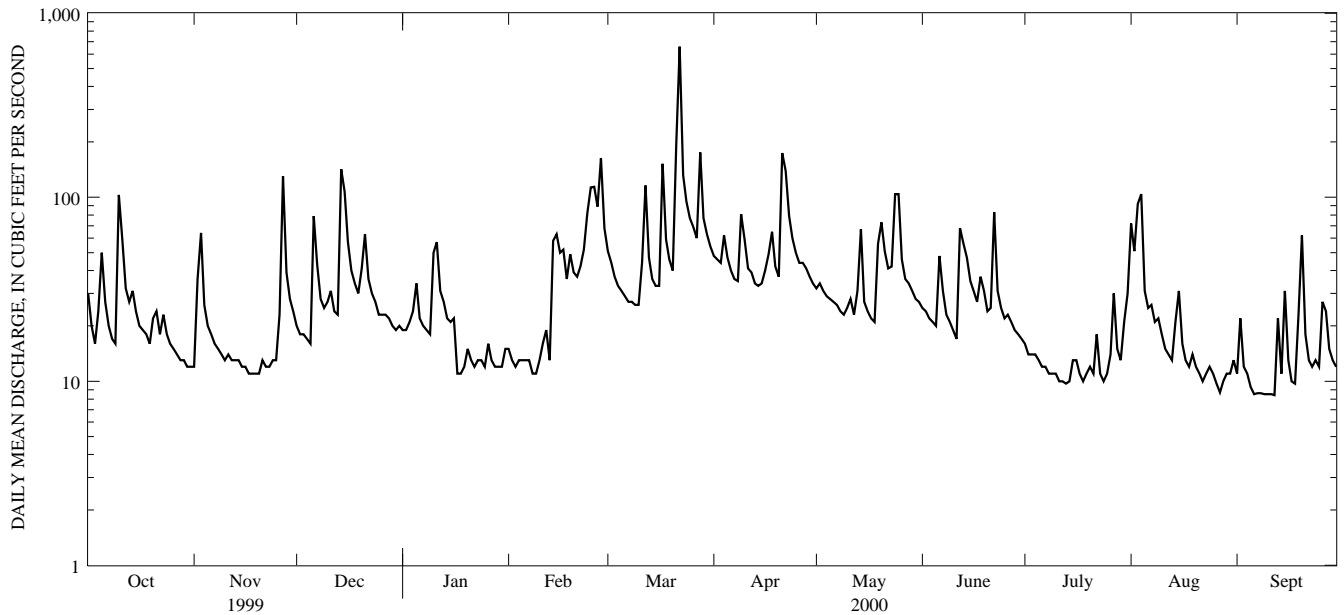
e Estimated.

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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000	
ANNUAL TOTAL	10733.8		12396.7			
ANNUAL MEAN	29.4		33.9		37.8	
HIGHEST ANNUAL MEAN					69.5	1984
LOWEST ANNUAL MEAN					21.1	1985
HIGHEST DAILY MEAN	915	Sep 16	659	Mar 22	1760	Jan 19 1996
LOWEST DAILY MEAN	3.0	Aug 7	8.4	Sep 12	3.0	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	3.2	Aug 1	8.5	Sep 6	3.2	Aug 1 1999
INSTANTANEOUS PEAK FLOW			a1410	Mar 22	a4610	Jan 19 1996
INSTANTANEOUS PEAK STAGE			4.90	Mar 22	6.34	Jan 19 1996
INSTANTANEOUS LOW FLOW			b6.6	Feb 9	b2.6	Dec 31 1998
ANNUAL RUNOFF (CFSM)	1.28		1.47		1.64	
ANNUAL RUNOFF (INCHES)	17.36		20.05		22.30	
10 PERCENT EXCEEDS	50		63		74	
50 PERCENT EXCEEDS	20		23		23	
90 PERCENT EXCEEDS	4.7		11		8.0	

a From rating curve extended above 560 ft³/s on basis of contracted-opening measurement at gage height 5.51 ft.
 b Result of freeze-up.



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