

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".

REVISED RECORDS: WDR PA-01-1: 1982-85, 1987, 1989, 1990, 1993-96 (P).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 290.00 ft above National Geodetic Vertical Datum of 1929.

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)
June 20	2130	*1,870	*5.32	Sept. 15	1600	1,540	5.02
July 22	0115	1,140	4.63				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	43	30	138	30	34	58	32	76	40	22	17
2	6.5	36	25	134	32	94	58	32	45	38	25	65
3	6.2	29	22	86	31	96	50	30	38	38	24	56
4	7.3	24	e19	86	48	50	47	28	240	34	43	45
5	8.7	20	e16	66	43	108	51	28	117	34	42	35
6	7.5	48	e17	62	28	136	45	29	65	35	69	27
7	6.5	35	e14	56	e25	65	44	29	137	37	38	22
8	5.8	25	e16	57	e23	60	48	32	106	38	33	19
9	5.8	20	e17	62	e21	136	83	30	67	32	29	18
10	6.9	18	e15	59	e23	74	86	30	54	36	80	16
11	139	23	e90	49	e22	49	154	29	47	37	55	16
12	88	50	184	46	e19	52	99	27	52	31	79	15
13	40	64	107	e42	21	86	65	24	115	27	45	32
14	25	41	256	e40	22	85	56	22	84	26	55	49
15	16	34	103	e37	19	74	52	21	55	24	34	906
16	74	63	70	e35	14	91	48	22	46	23	32	185
17	66	185	54	e28	7.4	107	46	33	41	20	33	81
18	36	135	47	e24	e20	81	47	26	55	19	27	61
19	27	63	45	e22	e30	60	46	22	55	26	23	106
20	21	51	123	e25	e25	140	42	19	523	19	21	62
21	16	47	73	e27	e22	272	40	29	562	63	19	52
22	14	62	55	e25	e70	98	43	26	169	264	18	47
23	13	53	49	e22	e250	70	40	23	109	166	23	319
24	12	42	45	20	137	61	37	31	77	54	17	91
25	13	38	87	22	63	55	35	34	63	41	16	65
26	66	34	74	24	48	55	50	137	57	35	16	75
27	40	40	56	21	42	62	43	55	52	32	16	59
28	28	36	51	19	37	49	37	50	47	30	16	122
29	25	32	49	25	---	74	35	50	44	26	15	67
30	61	31	47	24	---	93	33	36	42	23	17	55
31	67	---	54	26	---	72	---	36	---	20	17	---
TOTAL	955.0	1422	1910	1409	1172.4	2639	1618	1052	3240	1368	999	2785
MEAN	30.8	47.4	61.6	45.5	41.9	85.1	53.9	33.9	108	44.1	32.2	92.8
MAX	139	185	256	138	250	272	154	137	562	264	80	906
MIN	5.8	18	14	19	7.4	34	33	19	38	19	15	15
CFSM	1.34	2.06	2.68	1.98	1.82	3.70	2.34	1.48	4.70	1.92	1.40	4.04
IN.	1.54	2.30	3.09	2.28	1.90	4.27	2.62	1.70	5.24	2.21	1.62	4.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2003, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
MEAN	21.0	31.7	45.5	43.5	46.2	63.1	58.8	46.8	33.3	22.7	16.0	22.0											
MAX	66.9	60.6	165	140	93.8	171	146	114	108	99.0	35.3	92.8											
(WY)	1997	1993	1984	1996	1984	1994	1983	1989	2003	1984	1994	2003											
MIN	7.45	7.47	7.94	15.3	11.9	23.4	16.4	22.9	11.0	5.67	5.65	5.47											
(WY)	2002	2002	1999	2002	2002	1985	1985	1995	1999	1999	2002	1983											

e Estimated.

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

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1982 - 2003	
ANNUAL TOTAL	10459.2		20569.4			
ANNUAL MEAN	28.7		56.4		37.5	
HIGHEST ANNUAL MEAN					69.5	1984
LOWEST ANNUAL MEAN					19.1	2002
HIGHEST DAILY MEAN	571	May 13	906	Sep 15	1760	Jan 19 1996
LOWEST DAILY MEAN	4.2	Aug 19	5.8	Oct 8,9	3.0	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	4.7	Aug 13	6.8	Oct 3	3.2	Aug 1 1999
MAXIMUM PEAK FLOW			a1870	Jun 20	a3270	Jan 19 1996
MAXIMUM PEAK STAGE			5.32	Jun 20	6.34	Jan 19 1996
INSTANTANEOUS LOW FLOW			b5.3	Feb 17	b2.6	Dec 31 1998
ANNUAL RUNOFF (CFSM)	1.25		2.45		1.63	
ANNUAL RUNOFF (INCHES)	16.92		33.27		22.15	
10 PERCENT EXCEEDS	61		101		73	
50 PERCENT EXCEEDS	14		40		23	
90 PERCENT EXCEEDS	5.4		18		7.9	

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.

