

SCHUYLKILL RIVER BASIN

01472198 PERKIOMEN CREEK AT EAST GREENVILLE, PA

LOCATION.--Lat 40°23'38", long 75°30'57", Montgomery County, Hydrologic Unit 02040203, on right bank 100 ft upstream from bridge on Church Road, 0.9 mi upstream from Molasses Creek, and 1.0 mi southwest of East Greenville.

DRAINAGE AREA.--38.0 mi².

PERIOD OF RECORD.--October 1981 to current year.

REVISED RECORD.--1982-97(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 288.50 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, and those greater than 1,500 ft³/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 1,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 3	1400	1,090	3.74	Sept. 16	2000	*4,800	*a6.53
Jan. 18	2000	2,070	4.52				

a From floodmark.

**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	13	15	16	e12	34	102	56	37	23	11	8.3	8.6
2	11	15	15	11	219	62	56	35	23	12	7.5	8.4
3	12	15	15	e251	127	54	49	34	28	14	7.2	8.4
4	17	15	15	e56	80	99	48	35	23	11	7.4	8.2
5	16	14	16	e32	62	62	45	35	21	10	7.1	9.5
6	13	14	16	25	55	69	41	33	20	10	7.3	14
7	13	15	16	e21	51	67	41	33	19	9.9	7.2	11
8	179	15	16	19	58	49	39	39	19	9.3	10	11
9	111	14	19	e112	53	47	59	39	17	9.1	11	9.4
10	240	14	16	e63.0	50	48	119	31	17	11	8.0	15
11	61	22	15	e29	45	44	77	28	18	12	7.8	11
12	37	19	15	36	49	41	86	27	17	9.6	7.6	9.3
13	29	16	15	48	76	39	61	26	19	9.8	7.5	8.8
14	29	15	15	30	51	42	54	25	21	9.1	62	8.4
15	24	15	14	114	44	65	50	24	35	9.2	17	33
16	21	15	15	76	44	63	59	24	19	9.0	12	1680
17	20	15	15	74	45	67	65	23	19	8.7	10	380
18	19	15	14	679	125	68	50	23	24	8.6	9.4	74
19	18	14	15	157	83	52	46	79	18	8.7	8.6	49
20	17	15	15	77	62	46	57	51	17	18	9.3	39
21	16	15	14	66	52	76	54	30	18	12	11	41
22	16	15	15	91	42	435	51	26	19	11	9.9	51
23	16	14	14	86	37	130	64	64	16	12	9.1	35
24	16	14	14	368	38	97	71	174	14	11	8.5	28
25	15	14	12	141	37	79	52	82	13	9.9	8.6	24
26	15	52	13	89	37	68	48	49	12	8.7	34	21
27	15	30	13	72	36	62	44	40	12	8.6	24	19
28	16	20	14	62	62	75	42	34	11	8.5	13	19
29	18	18	e14	53	---	61	40	30	11	8.2	11	22
30	16	17	e13	45	---	54	38	27	11	8.6	8.9	138
31	16	---	e12	39	---	50	---	25	---	8.7	8.6	---
TOTAL	1075	516	456	3034.0	1754	2373	1662	1262	554	317.2	378.8	2794.0
MEAN	34.7	17.2	14.7	97.9	62.6	76.5	55.4	40.7	18.5	10.2	12.2	93.1
MAX	240	52	19	679	219	435	119	174	35	18	62	1680
MIN	11	14	12	11	34	39	38	23	11	8.2	7.1	8.2
CFSM	.91	.45	.39	2.58	1.65	2.01	1.46	1.07	.49	.27	.32	2.45
IN.	1.05	.51	.45	2.97	1.72	2.32	1.63	1.24	.54	.31	.37	2.74

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

MEAN	36.5	52.6	69.5	74.2	75.9	98.6	97.7	72.3	46.7	38.7	28.2	34.9
MAX	117	100	246	223	138	273	213	160	121	154	53.1	93.1
(WY)	1997	1993	1997	1996	1984	1994	1983	1989	1982	1984	1994	1999
MIN	13.6	16.7	14.7	26.4	33.6	34.5	24.9	35.0	18.5	10.2	11.3	13.4
(WY)	1982	1982	1999	1985	1992	1985	1985	1995	1999	1999	1995	1986

e Estimated.

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01472198 PERKIOMEN CREEK AT EAST GREENVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1982 - 1999	
ANNUAL TOTAL	21452		16176.0			
ANNUAL MEAN	58.8		44.3		60.4	
HIGHEST ANNUAL MEAN					101	1984
LOWEST ANNUAL MEAN					34.5	1985
HIGHEST DAILY MEAN	487	May 12	1680	Sep 16	2800	Jan 19 1996
LOWEST DAILY MEAN	11	Oct 2	7.1	Aug 5	4.2	Aug 21 1985
ANNUAL SEVEN-DAY MINIMUM	13	Sep 27	7.4	Aug 1	4.4	Aug 18 1985
INSTANTANEOUS PEAK FLOW			b 4800	Sep 16	b 6740	Jun 25 1984
INSTANTANEOUS PEAK STAGE			a 6.53	Sep 16	7.26	Jun 25 1984
INSTANTANEOUS LOW FLOW			c 3.9	Dec 31	3.8	Sep 5 1985
ANNUAL RUNOFF (CFSM)	1.55		1.17		1.59	
ANNUAL RUNOFF (INCHES)	21.00		15.84		21.59	
10 PERCENT EXCEEDS	117		76		115	
50 PERCENT EXCEEDS	37		21		37	
90 PERCENT EXCEEDS	14		9.3		15	

- a** From floodmark.
- b** From rating curve extended above 1,500 ft³/s on basis of contracted-opening measurement at gage height 6.53 ft and Flood Insurance Study of Montgomery County.
- c** Result of freeze-up.

