

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.--WDR PA-98-1: 1982-97(P).

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

REMARKS.--Records fair 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 and landline 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)
Dec. 17	1230	*3,570	*5.78	July 26	0230	3,120	5.48

**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	17	17	29	e25	108	73	110	48	63	99	25	e29
2	17	16	25	e24	97	71	95	46	170	72	23	e16
3	16	17	e22	e24	79	68	85	43	84	43	21	e14
4	51	17	e21	e23	e62	68	79	43	67	47	24	e14
5	90	16	e20	e23	e57	72	71	41	59	39	31	15
6	39	16	e19	e22	e77	66	98	37	54	40	21	14
7	29	16	19	e22	67	74	87	35	50	31	17	14
8	24	16	19	e21	63	81	97	36	45	33	14	14
9	22	17	19	e21	63	87	90	36	41	35	12	14
10	21	54	18	e21	199	79	121	34	39	28	18	14
11	21	29	19	e20	111	75	94	32	37	27	43	14
12	19	21	20	e20	e80	71	104	31	35	24	32	13
13	18	19	17	e20	e80	236	88	30	34	23	33	13
14	18	28	88	e24	82	120	77	29	33	23	e24	22
15	17	28	61	e31	107	97	73	28	34	22	e21	16
16	17	21	67	e34	105	91	114	28	84	21	e19	14
17	18	20	1150	e34	130	103	84	28	93	23	e17	13
18	57	19	162	e31	85	90	151	32	51	45	e17	13
19	40	19	95	e117	74	76	95	31	42	25	e16	13
20	25	18	79	140	73	70	83	28	35	22	e17	36
21	23	18	63	e82	73	135	79	60	35	20	e15	57
22	21	17	e52	e62	e57	152	75	210	78	18	e14	21
23	19	e16	43	e50	e56	96	68	95	108	15	e17	17
24	19	16	e40	e47	58	86	64	58	59	13	e27	16
25	19	16	e37	e43	78	78	60	50	44	83	e16	97
26	19	81	e35	e39	122	72	58	165	38	620	e14	33
27	18	59	e32	e38	94	66	56	277	32	63	e19	20
28	18	34	e30	e35	84	63	53	128	30	43	e24	18
29	17	29	e29	e33	---	63	50	88	28	33	e15	17
30	17	41	e28	e102	---	368	49	78	29	31	e13	15
31	17	---	e26	125	---	142	---	62	---	28	e12	---
TOTAL	783	751	2384	1353	2421	3089	2508	1967	1631	1689	631	636
MEAN	25.3	25.0	76.9	43.6	86.5	99.6	83.6	63.5	54.4	54.5	20.4	21.2
MAX	90	81	1150	140	199	368	151	277	170	620	43	97
MIN	16	16	17	20	56	63	49	28	28	13	12	13
CFSM	.66	.66	2.02	1.15	2.28	2.62	2.20	1.67	1.43	1.43	.54	.56
IN.	.77	.74	2.33	1.32	2.37	3.02	2.46	1.93	1.60	1.65	.62	.62

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

MEAN	36.2	50.5	69.2	70.6	75.8	100	96.6	71.5	46.8	38.6	28.0	33.6
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001	
ANNUAL TOTAL	18887		19843			
ANNUAL MEAN	51.6		54.4		59.7	
HIGHEST ANNUAL MEAN					101	1984
LOWEST ANNUAL MEAN					34.5	1985
HIGHEST DAILY MEAN	1150	Dec 17	1150	Dec 17	2800	Jan 19 1996
LOWEST DAILY MEAN	13	Sep 6 ^a	12	Aug 9 ^b	4.2	Aug 21 1985
ANNUAL SEVEN-DAY MINIMUM	13	Sep 6	14	Sep 7	4.4	Aug 18 1985
MAXIMUM PEAK FLOW			c3570	Dec 17	c6740	Jun 25 1984
MAXIMUM PEAK STAGE			5.78	Dec 17	7.26	Jun 25 1984
INSTANTANEOUS LOW FLOW			d8.9	Dec 10	3.8	Sep 5 1985
ANNUAL RUNOFF (CFSM)	1.36		1.43		1.57	
ANNUAL RUNOFF (INCHES)	18.49		19.43		21.34	
10 PERCENT EXCEEDS	92		97		113	
50 PERCENT EXCEEDS	33		34		37	
90 PERCENT EXCEEDS	17		16		15	

a Also Sept. 7, 8, 10-12.

b Also Aug. 31, estimated.

c 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.

d Result of freeze-up.

