

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 National Geodetic Vertical Datum of 1929.

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)
May 13	2045	*4,070	*6.10	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	7.7	13	e10	52	14	40	62	38	28	11	38
2	15	7.9	12	e10	53	14	30	105	30	26	12	34
3	14	8.8	11	e9.0	37	81	30	90	26	25	12	15
4	13	8.6	11	e10	30	40	31	59	26	23	12	13
5	13	8.5	10	e11	25	e20	25	51	27	21	11	11
6	13	8.2	10	13	23	22	24	44	63	20	16	10
7	12	8.4	11	21	24	22	22	41	150	20	11	10
8	11	8.2	12	18	22	20	21	35	50	19	10	10
9	11	8.9	39	16	21	19	22	52	38	19	9.7	9.5
10	11	8.9	17	17	20	20	25	45	32	19	9.7	9.4
11	11	8.9	14	32	23	17	21	33	29	17	9.6	8.6
12	11	8.5	13	41	19	17	20	44	66	17	9.4	8.0
13	11	8.7	13	30	18	20	22	963	75	17	9.2	8.1
14	10	8.8	23	24	e14	20	27	655	71	18	9.2	8.5
15	17	8.9	29	e21	e16	18	60	158	62	19	9.2	10
16	11	9.1	17	24	18	18	39	108	48	16	9.6	25
17	12	9.0	16	21	17	17	31	88	38	15	9.3	11
18	9.9	8.9	47	20	16	49	25	299	32	15	8.4	9.9
19	9.3	8.7	28	17	15	53	23	125	61	15	7.8	9.6
20	9.4	9.7	18	21	16	174	23	95	39	16	11	9.8
21	8.9	9.5	15	18	16	94	22	82	30	15	9.6	9.5
22	8.7	9.2	14	18	15	58	31	71	28	14	8.9	9.9
23	8.3	8.9	14	20	15	48	26	63	25	15	11	9.4
24	8.5	8.9	26	83	15	41	21	58	23	17	12	9.3
25	8.3	20	18	70	14	33	26	53	23	15	15	9.0
26	7.7	37	15	45	15	33	29	50	24	14	10	12
27	8.0	14	13	34	16	70	22	49	87	14	9.8	105
28	8.0	12	e12	28	14	46	116	45	157	15	9.6	57
29	7.9	11	e13	26	---	39	127	42	44	14	30	21
30	7.7	12	e11	25	---	34	64	37	32	13	16	15
31	7.7	---	e10	35	---	30	---	35	---	12	12	---
TOTAL	329.3	315.8	525	788.0	599	1201	1045	3737	1474	543	351.0	525.5
MEAN	10.6	10.5	16.9	25.4	21.4	38.7	34.8	121	49.1	17.5	11.3	17.5
MAX	17	37	47	83	53	174	127	963	157	28	30	105
MIN	7.7	7.7	10	9.0	14	14	20	33	23	12	7.8	8.0
CFSM	0.28	0.28	0.45	0.67	0.56	1.02	0.92	3.17	1.29	0.46	0.30	0.46
IN.	0.32	0.31	0.51	0.77	0.59	1.18	1.02	3.66	1.44	0.53	0.34	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

MEAN	34.9	48.6	66.7	68.4	73.2	97.0	93.6	73.8	47.0	37.6	27.2	32.8
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	10.6	10.5	14.7	25.4	21.4	34.5	24.9	35.0	18.5	10.2	11.3	13.4
(WY)	2002	2002	1999	2002	2002	1985	1985	1995	1999	1999	1995	1986

e Estimated.

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01472198 PERKIOMEN CREEK AT EAST GREENVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1982 - 2002	
ANNUAL TOTAL	17095.1		11433.6			
ANNUAL MEAN	46.8		31.3		58.3	
HIGHEST ANNUAL MEAN					101	1984
LOWEST ANNUAL MEAN					31.3	2002
HIGHEST DAILY MEAN	620	Jul 26	963	May 13	2800	Jan 19 1996
LOWEST DAILY MEAN	7.7	Oct 26 ^a	7.7	Oct 26 ^a	4.2	Aug 21 1985
ANNUAL SEVEN-DAY MINIMUM	7.8	Oct 26	7.8	Oct 26	4.4	Aug 18 1985
MAXIMUM PEAK FLOW			b4070	May 13	b6740	Jun 25 1984
MAXIMUM PEAK STAGE			6.10	May 13	7.26	Jun 25 1984
INSTANTANEOUS LOW FLOW			c4.8	Dec 30	3.8	Sep 5 1985
ANNUAL RUNOFF (CFSM)	1.23		0.82		1.54	
ANNUAL RUNOFF (INCHES)	16.74		11.19		20.86	
10 PERCENT EXCEEDS	96		58		110	
50 PERCENT EXCEEDS	31		17		35	
90 PERCENT EXCEEDS	9.6		8.9		15	

a Also Oct. 30, 31, Nov. 1.

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.

