

## 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 mi<sup>2</sup>.

**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 ft<sup>3</sup>/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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Feb. 22	----	Unknown	Ice jam	July 23	0030	1,890	4.57
June 21	0015	*4,730	*6.50	Sept. 15	2045	2,140	4.77
July 22	0200	2,420	4.99	Sept. 23	1115	1,320	4.09

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	14	48	42	228	45	58	108	46	115	66	38	25
2	13	40	36	227	47	153	104	46	68	62	39	92
3	12	32	33	147	46	e155	90	44	57	61	37	85
4	16	27	29	140	67	e80	83	42	334	58	72	59
5	23	25	e28	111	53	171	92	42	162	55	51	43
6	14	56	e30	103	39	220	76	44	105	55	80	31
7	12	37	e28	93	43	e110	75	42	218	59	47	27
8	12	29	e30	94	37	107	85	50	160	60	42	25
9	12	26	e28	99	36	254	137	44	111	51	38	23
10	15	24	e35	92	39	e120	137	44	92	59	92	21
11	260	27	e140	77	36	e85	204	43	81	57	124	21
12	163	57	e270	66	32	96	157	40	77	49	86	20
13	65	76	158	61	32	174	114	36	151	45	66	58
14	42	53	338	58	33	151	97	34	99	42	62	46
15	30	42	152	56	32	133	88	32	75	41	45	1050
16	136	72	110	48	23	150	83	33	63	40	43	239
17	110	257	e80	53	14	164	79	50	59	37	42	104
18	58	198	e65	41	e50	131	84	37	84	34	35	79
19	44	84	e60	45	e45	106	78	31	80	44	31	230
20	36	66	e200	48	e40	219	67	28	790	33	29	99
21	25	60	120	41	e35	471	64	46	1200	76	28	78
22	21	88	91	38	e350	180	68	36	268	644	28	67
23	19	75	79	35	e550	131	60	34	178	361	28	447
24	18	59	69	36	e200	111	56	43	131	110	24	135
25	18	52	132	38	114	98	54	47	111	69	23	101
26	83	48	116	40	85	99	81	200	99	55	23	111
27	47	57	92	37	67	107	64	84	90	50	23	89
28	34	50	82	34	61	84	55	90	82	53	23	179
29	31	46	78	41	---	137	54	82	77	43	21	99
30	69	45	72	40	---	171	50	55	72	39	24	80
31	75	---	84	42	---	132	---	58	---	36	24	---
TOTAL	1527	1856	2907	2309	2251	4558	2644	1583	5289	2544	1368	3763
MEAN	49.3	61.9	93.8	74.5	80.4	147	88.1	51.1	176	82.1	44.1	125
MAX	260	257	338	228	550	471	204	200	1200	644	124	1050
MIN	12	24	28	34	14	58	50	28	57	33	21	20
CFSM	1.30	1.63	2.47	1.96	2.12	3.87	2.32	1.34	4.64	2.16	1.16	3.30
IN.	1.49	1.82	2.85	2.26	2.20	4.46	2.59	1.55	5.18	2.49	1.34	3.68

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

MEAN	35.6	49.2	67.9	68.7	73.5	99.3	93.4	72.8	52.8	39.6	28.0	37.1
MAX	117	100	246	223	138	273	213	160	176	154	53.1	125
(WY)	1997	1993	1997	1996	1984	1994	1983	1989	2003	1984	1994	2003
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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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1982 - 2003	
ANNUAL TOTAL	16553.5		32599			
ANNUAL MEAN	45.4		89.3		59.7	
HIGHEST ANNUAL MEAN					101	1984
LOWEST ANNUAL MEAN					31.3	2002
HIGHEST DAILY MEAN	963	May 13	1200	Jun 21	2800	Jan 19 1996
LOWEST DAILY MEAN	7.8	Aug 19	12	Oct 3 <sup>a</sup>	4.2	Aug 21 1985
ANNUAL SEVEN-DAY MINIMUM	8.9	Sep 8	14	Oct 3	4.4	Aug 18 1985
MAXIMUM PEAK FLOW			b4730	Jun 21	b6740	Jun 25 1984
MAXIMUM PEAK STAGE			6.50	Jun 21	7.26	Jun 25 1984
INSTANTANEOUS LOW FLOW			c6.6	Feb 9	3.8	Sep 5 1985
ANNUAL RUNOFF (CFSM)	1.19		2.35		1.57	
ANNUAL RUNOFF (INCHES)	16.21		31.91		21.36	
10 PERCENT EXCEEDS	87		162		113	
50 PERCENT EXCEEDS	26		59		37	
90 PERCENT EXCEEDS	10		27		15	

a Also Oct. 7-9.

b From rating curve extended above 1,500 ft<sup>3</sup>/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.

