

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 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 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)
Oct. 15	2315	1,080	3.84	Mar. 28	2000	2,090	4.73
Nov. 28	1130	3,190	5.53	Apr. 2	2100	*3,880	*5.98
Dec. 1	1200	1,150	3.92	Apr. 8	0415	1,330	4.10
Jan. 14	1330	1,300	4.07				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	56	450	74	e60	79	113	93	36	30	18	17
2	97	54	176	67	e63	67	1260	81	35	164	18	14
3	88	54	130	68	e65	62	821	78	40	39	17	13
4	78	94	113	79	e68	61	273	73	55	30	16	13
5	71	98	103	85	69	61	192	70	40	31	16	13
6	66	65	96	209	72	64	164	68	38	38	16	12
7	62	60	134	119	77	97	147	67	46	28	16	12
8	60	57	132	215	83	145	450	64	34	214	19	12
9	59	53	116	131	100	102	167	61	31	73	24	11
10	58	52	335	108	132	83	142	59	34	46	18	12
11	56	52	197	99	91	81	126	59	32	34	16	11
12	55	108	131	120	78	92	117	57	32	30	15	11
13	53	105	118	99	71	84	112	54	28	31	15	11
14	71	69	104	547	164	77	103	54	27	31	17	11
15	187	63	93	172	327	72	95	54	26	30	52	18
16	200	60	88	128	151	67	91	55	25	35	20	14
17	87	57	86	111	124	66	88	51	30	61	19	28
18	70	56	81	e100	98	64	85	49	25	47	16	15
19	145	54	81	e90	e84	62	82	48	25	31	20	13
20	95	56	e75	e80	79	68	77	66	26	27	23	12
21	80	64	e70	e70	86	70	72	57	23	24	18	12
22	77	54	e70	e63	84	61	70	51	22	22	15	11
23	66	52	271	e60	85	141	242	49	21	21	15	11
24	62	64	148	e56	78	151	314	48	21	20	14	11
25	60	91	95	e60	75	98	113	49	21	29	13	11
26	59	62	83	e65	72	85	96	48	20	23	13	12
27	57	56	79	e60	68	79	109	45	22	23	14	13
28	55	1060	e80	e55	69	693	89	44	29	33	30	11
29	56	197	75	e50	---	335	78	47	69	21	22	11
30	83	132	76	e53	---	157	100	41	69	19	17	12
31	63	---	77	e55	---	124	---	38	---	18	16	---
TOTAL	2490	3155	3963	3348	2673	3548	5988	1778	982	1303	578	388
MEAN	80.3	105	128	108	95.5	114	200	57.4	32.7	42.0	18.6	12.9
MAX	200	1060	450	547	327	693	1260	93	69	214	52	28
MIN	53	52	70	50	60	61	70	38	20	18	13	11
CFSM	2.11	2.77	3.36	2.84	2.51	3.01	5.25	1.51	0.86	1.11	0.49	0.34
IN.	2.44	3.09	3.88	3.28	2.62	3.47	5.86	1.74	0.96	1.28	0.57	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005, 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	2004	2005
MEAN	40.3	53.7	73.8	70.4	76.6	98.9	97.6	71.4	51.5	43.1	29.5	40.9												
MAX	117	105	246	223	138	273	213	160	176	154	74.5	153												
(WY)	1997	2005	1997	1996	1984	1994	1983	1989	2003	1984	2004	2004												
MIN	10.6	10.5	14.7	25.4	21.4	34.5	24.9	35.0	18.5	10.2	11.3	12.9												
(WY)	2002	2002	1999	2002	2002	1985	1985	1995	1999	1999	1995	2005												

e Estimated.

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01472198 PERKIOMEN CREEK AT EAST GREENVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005	
ANNUAL TOTAL	33866		30194			
ANNUAL MEAN	92.5		82.7		62.2	
HIGHEST ANNUAL MEAN					101	1984
LOWEST ANNUAL MEAN					31.3	2002
HIGHEST DAILY MEAN	2020	Sep 18	1260	Apr 2	2800	Jan 19 1996
LOWEST DAILY MEAN	18	Jul 10	11	Sep 9 ^a	4.2	Aug 21 1985
ANNUAL SEVEN-DAY MINIMUM	21	Jul 5	11	Sep 8	4.4	Aug 18 1985
MAXIMUM PEAK FLOW			b3880	Apr 2	b6740	Jun 25 1984
MAXIMUM PEAK STAGE			5.98	Apr 2	7.26	Jun 25 1984
INSTANTANEOUS LOW FLOW			10	Sep 12 ^c	3.8	Sep 5 1985
ANNUAL RUNOFF (CFSM)	2.44		2.18		1.64	
ANNUAL RUNOFF (INCHES)	33.15		29.56		22.24	
10 PERCENT EXCEEDS	130		141		115	
50 PERCENT EXCEEDS	64		62		39	
90 PERCENT EXCEEDS	36		16		15	

a Also Sept. 11-14, 22-25, 28, 29.

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 Also Sept. 13, 14, 25, 28, 29.

