

## SCHUYLKILL RIVER BASIN

## 01473000 PERKIOMEN CREEK AT GRATERFORD, PA

**LOCATION.**--Lat 40°13'46", long 75°27'07", Montgomery County, Hydrologic Unit 02040203, on left bank 1,650 ft upstream from highway bridge at Graterford, 0.5 mi upstream from Lodel Creek, and 2.5 mi north of Collegeville.

**DRAINAGE AREA.**--279 mi<sup>2</sup>.

**PERIOD OF RECORD.**--June 1914 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1950, published as "at Graters Ford."

**REVISED RECORDS.**--WSP 756: Drainage area. WSP 1171: 1935(M). WSP 1302: 1915-16, 1927-29. WSP 1382: 1932-33, 1935, 1937, 1942, 1947, 1948(M), 1949(P), 1950(M), 1951-52(P), WDR PA-91-1: 1989-90 (adjusted means and monthly runoff).

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 112.66 ft above National Geodetic Vertical Datum of 1929. June 1914, to Sept. 6, 1921, nonrecording gage at site 1,650 ft downstream at datum 3.29 ft lower. Sept. 7, 1921, to Sept. 13, 1927, nonrecording gage at present site and datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Some regulation since Dec. 21, 1956 by Green Lane Reservoir (station 01472200) 10.5 mi upstream. Diversion from the Delaware River at Point Pleasant to Bradshaw Reservoir (Geddes Creek Basin) has been pumped from the reservoir to the East Branch Perkiomen Creek since August 1989. See station 01472618, Tributary from Bradshaw Reservoir, for pumpage data. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

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	125	126	130	e90	260	135	255	481	172	159	102	134
2	125	126	129	e95	322	135	226	871	162	143	102	196
3	120	125	126	e100	228	602	205	1170	149	135	117	140
4	121	129	127	e105	187	336	263	458	141	128	105	122
5	120	128	125	e110	e115	196	206	327	141	122	104	113
6	123	128	124	e115	e140	162	182	268	194	116	103	108
7	118	126	126	e120	148	148	164	235	965	114	101	104
8	114	126	131	e125	146	136	150	212	322	113	101	103
9	120	129	177	e130	135	129	145	299	225	112	102	102
10	120	131	163	e140	128	132	157	332	190	115	101	102
11	121	139	148	e200	138	123	171	244	170	112	101	101
12	122	136	133	377	136	115	168	220	166	111	101	101
13	123	131	122	271	127	132	170	2060	269	110	100	104
14	117	126	124	215	120	161	175	8360	271	109	100	106
15	124	126	153	186	114	142	225	1170	389	110	100	95
16	122	123	134	157	114	130	252	625	244	108	100	133
17	117	123	122	141	112	124	202	439	198	107	108	124
18	120	123	161	137	107	463	179	1950	173	107	108	109
19	104	123	172	e130	106	599	167	1040	181	108	107	82
20	103	126	137	e135	105	2120	167	547	188	105	122	62
21	115	122	119	e140	148	1370	161	402	162	105	111	56
22	117	127	111	154	147	495	184	328	148	110	106	49
23	119	125	109	154	145	341	218	282	140	108	119	45
24	124	123	143	613	143	286	176	251	137	114	119	45
25	126	130	149	644	140	243	165	224	138	97	140	45
26	126	180	128	302	139	208	187	224	131	101	117	67
27	127	153	e110	224	140	824	159	223	188	106	110	554
28	125	136	e115	190	136	434	998	212	784	107	108	515
29	126	133	e120	173	---	295	1510	202	284	107	169	196
30	128	130	e105	164	---	250	536	189	192	105	154	145
31	127	---	e95	228	---	221	---	178	---	104	124	---
TOTAL	3739	3909	4068	6065	4126	11187	8123	24023	7214	3508	3462	3958
MEAN	121	130	131	196	147	361	271	775	240	113	112	132
MAX	128	180	177	644	322	2120	1510	8360	965	159	169	554
MIN	103	122	95	90	105	115	145	178	131	97	100	45

e Estimated.

SCHUYLKILL RIVER BASIN

01473000 PERKIOMEN CREEK AT GRATERFORD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	212	360	517	553	597	763	625	429	264	202	155	227
MAX (WY)	1059	1182	1869	2071	1241	2100	1759	1298	1330	1286	493	1163
MIN (WY)	1997	1973	1997	1979	1971	1994	1983	1989	1972	1984	1971	1971
MIN (WY)	28.1	43.8	63.3	75.6	147	186	128	84.0	52.9	41.7	37.4	24.8
(WY)	1958	1958	1966	1981	2002	1985	1985	1965	1965	1965	1957	1957

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1957 - 2002

ANNUAL TOTAL		132762		83382								
ANNUAL MEAN		364		228						408		
HIGHEST ANNUAL MEAN										767		1984
LOWEST ANNUAL MEAN										165		1965
HIGHEST DAILY MEAN				4200	Mar 30		8360	May 14		16600	Dec 5	1993
LOWEST DAILY MEAN				e95	Dec 31		45	Sep 23-25		13	Sep 1	1957
ANNUAL SEVEN-DAY MINIMUM				112	Sep 12		53	Sep 20		19	Aug 31	1957
MAXIMUM PEAK FLOW							a19100	May 14		a35800	Jun 22	1972
MAXIMUM PEAK STAGE							12.52	May 14		17.08	Jun 22	1972
10 PERCENT EXCEEDS				817			327			824		
50 PERCENT EXCEEDS				164			133			180		
90 PERCENT EXCEEDS				118			104			61		

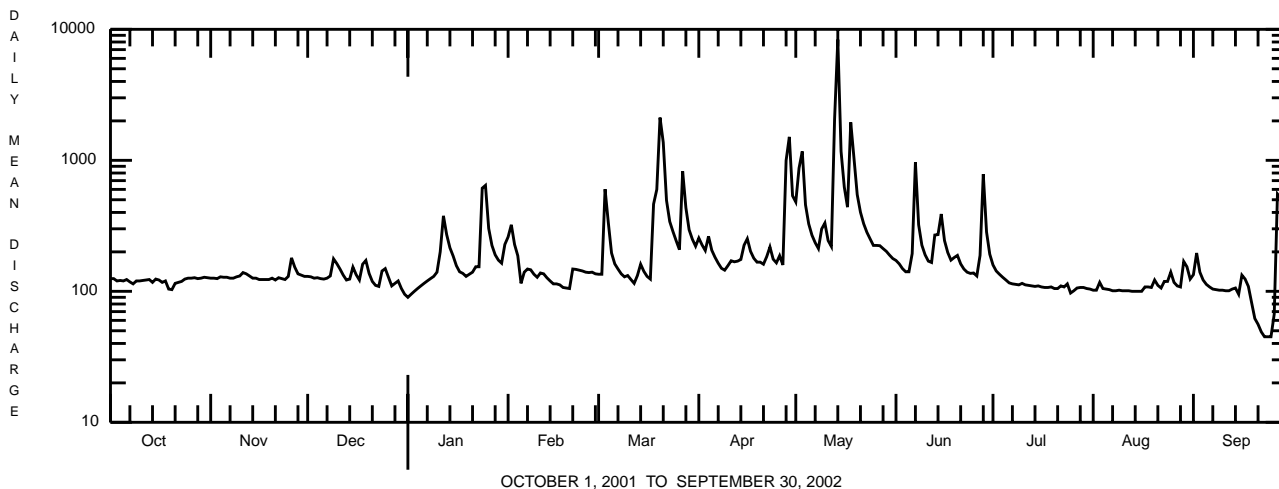
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1956, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	192	345	445	504	641	771	513	346	213	274	261	177
MAX (WY)	856	1119	1077	1336	1458	2193	1335	1395	976	1190	1378	869
MIN (WY)	1956	1933	1928	1915	1918	1936	1952	1948	1946	1919	1955	1934
MIN (WY)	21.2	38.0	69.8	66.5	80.2	247	167	71.7	32.7	32.4	21.0	23.8
(WY)	1942	1932	1923	1925	1934	1915	1946	1941	1921	1954	1930	1932

SUMMARY STATISTICS WATER YEARS 1915 - 1956

ANNUAL MEAN	389											
HIGHEST ANNUAL MEAN	689					1956						
LOWEST ANNUAL MEAN	188					1931						
HIGHEST DAILY MEAN	18600					Jul 9 1935						
LOWEST DAILY MEAN	3.8					Jun 25 1921						
ANNUAL SEVEN-DAY MINIMUM	5.2					Jun 22 1921						
MAXIMUM PEAK FLOW	a39900					Jul 9 1935						
MAXIMUM PEAK STAGE	18.26					Jul 9 1935						
INSTANTANEOUS LOW FLOW	4.7					Oct 4 1941						
ANNUAL RUNOFF (CFSM)	1.40											
ANNUAL RUNOFF (INCHES)	18.96											
10 PERCENT EXCEEDS	800											
50 PERCENT EXCEEDS	166											
90 PERCENT EXCEEDS	42											

a From rating curve extended above 14,000 ft<sup>3</sup>/s on basis of slope-area measurement at 32,000 ft<sup>3</sup>/s, gage height 16.23 ft.  
e Estimated.



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002