

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 mi².

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 sea level. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	482	171	312	210	e190	622	416	260	245	162	448	150
2	296	478	268	203	e170	517	373	288	236	151	429	158
3	241	1490	246	211	e160	418	e353	269	236	146	492	146
4	273	502	234	255	e155	362	e750	245	207	149	2070	136
5	651	339	224	822	e150	340	600	249	198	144	445	124
6	415	283	1300	389	e150	307	399	244	294	136	273	128
7	297	251	978	313	e145	280	340	232	357	134	263	121
8	242	219	498	283	e145	272	307	216	260	132	234	119
9	223	220	386	266	e142	261	683	207	217	129	236	119
10	1290	211	366	390	e140	254	725	204	197	130	208	119
11	1170	199	503	945	e160	271	421	274	181	127	171	120
12	519	171	345	469	e210	1650	373	225	717	126	192	120
13	380	165	309	367	e185	744	316	208	1180	124	189	167
14	369	162	2130	290	e230	456	291	496	457	125	229	169
15	301	171	2320	243	e900	377	280	291	370	131	441	416
16	265	167	1020	226	e580	338	385	222	320	132	245	208
17	247	147	616	e200	e700	2650	689	201	289	117	181	150
18	264	140	470	e185	e540	1070	1140	194	275	122	162	138
19	198	138	396	e170	e1100	621	576	794	274	127	163	214
20	292	138	395	e160	e980	497	425	1270	234	138	150	497
21	437	144	832	e150	e760	1500	1670	941	214	123	140	264
22	293	143	494	e145	e700	9980	2660	595	981	126	132	182
23	311	145	381	e140	e860	1830	1100	728	422	127	133	159
24	279	149	334	e155	1490	1050	660	1350	292	122	132	150
25	232	140	272	e165	1840	719	494	1580	246	126	131	152
26	203	178	261	e190	1900	625	418	608	223	154	126	485
27	191	3090	251	e180	1270	505	376	395	233	225	128	409
28	174	912	233	e165	2200	2640	355	340	197	173	370	255
29	162	478	223	e160	1020	1070	322	303	181	140	168	199
30	159	376	206	e175	---	629	288	276	173	325	149	169
31	159	---	209	e185	---	494	---	278	---	436	163	---
TOTAL	11015	11517	17012	8407	19172	33349	18185	13983	9906	4759	8993	5943
MEAN	355	384	549	271	661	1076	606	451	330	154	290	198
MAX	1290	3090	2320	945	2200	9980	2660	1580	1180	436	2070	497
MIN	159	138	206	140	140	254	280	194	173	117	126	119

e Estimated.

SCHUYLKILL RIVER BASIN

01473000 PERKIOMEN CREEK AT GRATERFORD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	214	370	522	565	602	771	635	420	262	202	156	231
MAX	1059	1182	1869	2071	1241	2100	1759	1298	1330	1286	493	1163
(WY)	1997	1973	1997	1979	1971	1994	1983	1989	1972	1984	1971	1971
MIN	28.1	43.8	63.3	75.6	156	186	128	84.0	52.9	41.7	37.4	24.8
(WY)	1958	1958	1966	1981	1980	1985	1985	1965	1965	1965	1957	1957

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1957 - 2000	
ANNUAL TOTAL	158988		162241			
ANNUAL MEAN	436		443		411	
HIGHEST ANNUAL MEAN					767	
LOWEST ANNUAL MEAN					165	
HIGHEST DAILY MEAN	12700	Sep 16	9980	Mar 22	16600	Dec 5 1993
LOWEST DAILY MEAN	101	Jul 11	117	Jul 17	13	Sep 1 1957
ANNUAL SEVEN-DAY MINIMUM	107	Jul 6	121	Sep 6	19	Aug 31 1957
INSTANTANEOUS PEAK FLOW			a17300	Mar 22	a35800	Jun 22 1972
INSTANTANEOUS PEAK STAGE			11.89	Mar 22	17.08	Jun 22 1972
10 PERCENT EXCEEDS	776		955		832	
50 PERCENT EXCEEDS	223		260		181	
90 PERCENT EXCEEDS	111		138		60	

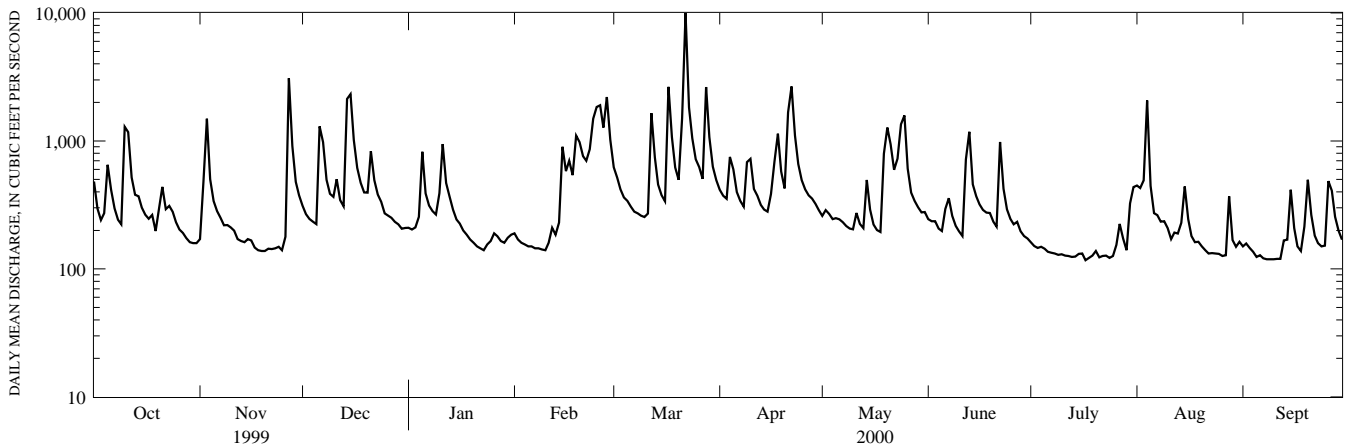
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1956, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	856	1119	1077	1336	1458	2193	1335	1395	976	1190	1378	869
(WY)	1956	1933	1928	1915	1918	1936	1952	1948	1946	1919	1955	1934
MIN	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
INSTANTANEOUS PEAK FLOW	a39900	Jul 9 1935
INSTANTANEOUS 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 ft³/s on basis of slope-area measurement at 32,000 ft³/s, gage height 16.23 ft.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000