

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	139	217	e137	1370	410	997	229	287	946	134	121
2	151	137	175	e133	1090	364	645	207	1360	1240	129	118
3	147	137	152	e131	751	343	493	200	621	319	114	117
4	166	135	e146	e128	436	340	422	198	394	291	103	114
5	805	135	173	e126	451	404	362	187	314	280	248	118
6	327	139	167	e122	586	372	491	177	273	238	152	116
7	240	140	e151	e117	628	459	698	170	246	202	134	113
8	193	140	158	e120	600	776	609	171	224	183	126	113
9	171	143	145	e143	509	833	676	177	209	189	122	112
10	151	225	130	e129	3520	713	1030	177	189	178	137	114
11	142	233	126	e115	1540	516	623	172	182	162	280	116
12	147	174	149	e113	680	446	1030	171	179	148	1000	109
13	138	161	132	e112	542	2640	666	171	179	140	571	113
14	134	174	978	e112	591	1300	481	158	169	135	234	121
15	130	202	698	e147	931	685	398	155	164	132	179	115
16	130	161	397	e184	823	583	798	154	1080	130	154	108
17	131	145	11900	e185	1530	832	598	150	2170	133	143	109
18	237	154	2280	e159	649	716	959	153	503	175	137	112
19	369	141	794	e1220	444	474	612	154	307	157	134	112
20	219	137	535	2380	395	389	443	146	243	138	134	158
21	187	136	e356	1030	e361	944	399	194	231	130	128	394
22	170	132	e288	548	e334	2230	369	1330	205	127	128	174
23	158	130	e241	e380	e308	813	337	791	373	125	127	136
24	153	126	e212	e330	299	526	316	375	365	123	128	130
25	153	125	e188	e289	352	427	284	254	230	136	124	389
26	150	466	e169	e255	1390	372	263	1210	194	1200	122	225
27	149	492	e158	e239	798	322	253	4070	180	349	122	156
28	147	272	e152	e223	539	293	241	1490	166	204	122	136
29	142	212	e147	207	---	281	232	604	154	164	119	130
30	142	239	e143	1020	---	4200	235	431	150	152	119	120
31	142	---	e140	1830	---	1770	---	325	---	141	120	---
TOTAL	5977	5482	21797	12364	22447	25773	15960	14551	11541	8367	5724	4319
MEAN	193	183	703	399	802	831	532	469	385	270	185	144
MAX	805	492	11900	2380	3520	4200	1030	4070	2170	1240	1000	394
MIN	130	125	126	112	299	281	232	146	150	123	103	108

e Estimated.

SCHUYLKILL RIVER BASIN

01473000 PERKIOMEN CREEK AT GRATERFORD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	214	366	526	561	607	772	633	422	265	204	156	229
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1957 - 2001	
ANNUAL TOTAL	155953		154302			
ANNUAL MEAN	426		423		412	
HIGHEST ANNUAL MEAN					767	
LOWEST ANNUAL MEAN					165	
HIGHEST DAILY MEAN	11900	Dec 17	11900	Dec 17	16600	Dec 5 1993
LOWEST DAILY MEAN	117	Jul 17	103	Aug 4	13	Sep 1 1957
ANNUAL SEVEN-DAY MINIMUM	121	Sep 6	112	Sep 12	19	Aug 31 1957
MAXIMUM PEAK FLOW			a22800	Dec 17	a35800	Jun 22 1972
MAXIMUM PEAK STAGE			13.71	Dec 17	17.08	Jun 22 1972
10 PERCENT EXCEEDS	797		872		832	
50 PERCENT EXCEEDS	215		189		182	
90 PERCENT EXCEEDS	132		123		61	

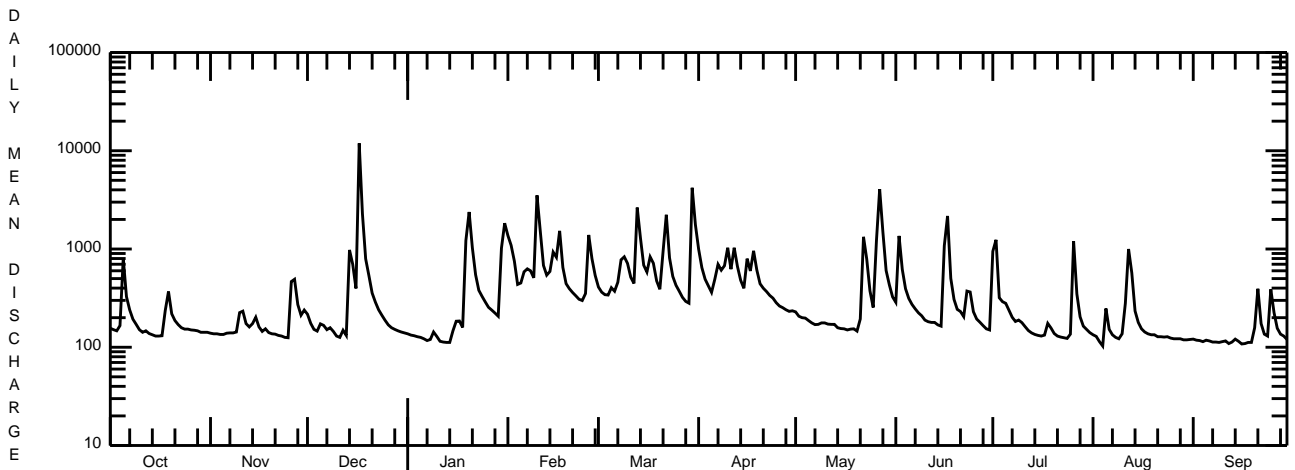
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1956, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	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
LOWEST ANNUAL MEAN	188
HIGHEST DAILY MEAN	18600
LOWEST DAILY MEAN	3.8
ANNUAL SEVEN-DAY MINIMUM	5.2
MAXIMUM PEAK FLOW	a39900
MAXIMUM PEAK STAGE	18.26
INSTANTANEOUS LOW FLOW	4.7
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.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001