

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 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, Distributary 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	499	249	2190	e155	333	682	243	1370	260	191	128
2	120	352	198	2750	e170	1770	653	239	719	244	222	747
3	121	268	188	1250	e160	e2200	516	232	395	234	178	740
4	137	223	e150	1400	e190	e600	436	215	6900	227	333	850
5	151	194	e140	856	e240	1490	446	210	3060	218	1260	584
6	130	542	e120	695	e170	2930	426	220	1120	239	2790	301
7	125	387	e140	616	e140	1230	374	219	1730	208	634	226
8	120	254	e120	535	e150	920	465	244	2110	258	387	192
9	118	211	e130	725	e140	2260	1290	237	946	215	320	171
10	123	199	e140	615	e120	1580	1560	230	614	201	969	151
11	1290	210	e950	440	e125	709	2060	221	448	234	1690	142
12	1230	752	3890	336	e135	626	1850	215	386	236	735	131
13	371	1330	1880	e260	e125	1080	953	201	818	197	464	212
14	247	538	4280	e270	e115	1390	630	184	972	179	561	622
15	192	359	1550	e220	e120	941	514	177	512	169	323	9510
16	752	445	862	e180	e110	1130	432	177	363	161	257	4940
17	1110	4090	546	e160	e100	1440	367	223	295	159	348	972
18	426	2930	401	e140	e105	1120	349	218	498	149	255	548
19	275	965	345	e150	e115	777	372	193	505	157	208	2440
20	226	595	3070	e160	e125	1550	321	176	5660	155	173	878
21	185	446	1730	e170	e130	4550	291	198	10600	149	162	505
22	157	547	772	e155	e180	1490	362	220	2080	2360	155	380
23	140	718	553	e140	e4200	886	332	195	1240	3010	157	6210
24	127	409	426	e130	2920	652	270	215	759	678	138	1630
25	122	324	1420	e140	1240	531	238	296	543	373	131	734
26	761	282	1490	e145	727	481	297	3070	431	264	121	583
27	506	332	839	e130	491	703	355	1280	363	236	125	509
28	291	368	607	e115	385	488	270	599	307	247	135	943
29	234	281	524	e125	---	584	256	522	290	212	121	622
30	872	260	493	e135	---	1570	257	358	282	188	122	401
31	1130	---	601	e145	---	1170	---	281	---	172	151	---
TOTAL	11917	19310	28804	15478	13083	39181	17624	11508	46316	11989	13816	37002
MEAN	384	644	929	499	467	1264	587	371	1544	387	446	1233
MAX	1290	4090	4280	2750	4200	4550	2060	3070	10600	3010	2790	9510
MIN	118	194	120	115	100	333	238	176	282	149	121	128

e Estimated.

SCHUYLKILL RIVER BASIN

01473000 PERKIOMEN CREEK AT GRATERFORD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	215	366	526	552	594	774	624	428	292	206	161	248
MAX (WY)	1059	1182	1869	2071	1241	2100	1759	1298	1544	1286	493	1233
MIN (WY)	1997	1973	1997	1979	1971	1994	1983	1989	2003	1984	1971	2003
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 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1957 - 2003

ANNUAL TOTAL		131697		266028								
ANNUAL MEAN		361		729					415			
HIGHEST ANNUAL MEAN									767			1984
LOWEST ANNUAL MEAN									165			1965
HIGHEST DAILY MEAN				8360	May 14		10600	Jun 21	16600	Dec 5		1993
LOWEST DAILY MEAN				45	Sep 23-25		e100	Feb 17	13	Sep 1		1957
ANNUAL SEVEN-DAY MINIMUM				53	Sep 20		a113	Feb 13	19	Aug 31		1957
MAXIMUM PEAK FLOW							b23100	Jun 21	b35800	Jun 22		1972
MAXIMUM PEAK STAGE							13.78	Jun 21	17.08	Jun 22		1972
10 PERCENT EXCEEDS				756			1570		841			
50 PERCENT EXCEEDS				166			345		182			
90 PERCENT EXCEEDS				105			135		62			

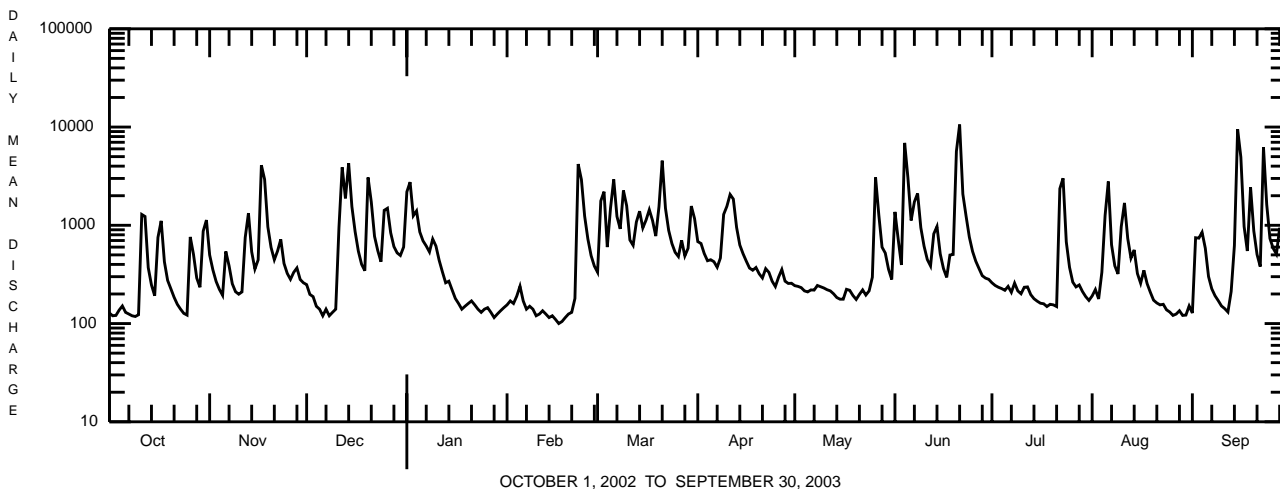
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1956, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	b39900				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 Computed using estimated daily discharges.
- b 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.
- e Estimated.



OCTOBER 1, 2002 TO SEPTEMBER 30, 2003