



2004 Water Year SCHUYLKILL RIVER BASIN

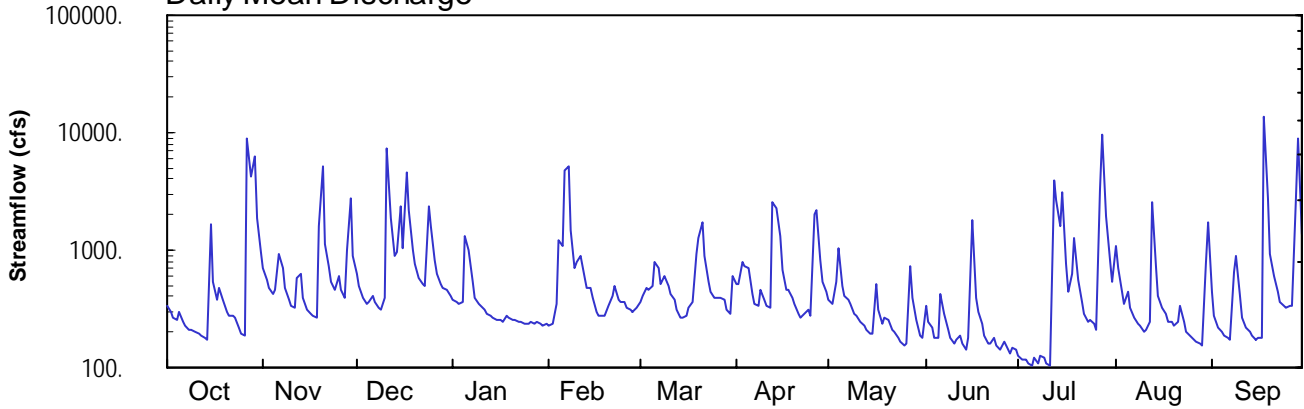
01473000 Perkiomen Creek at Graterford, PA

Latitude: 40° 13 ' 46"
Montgomery County

Longitude: 075° 27 ' 07"
Datum: 112.66 feet

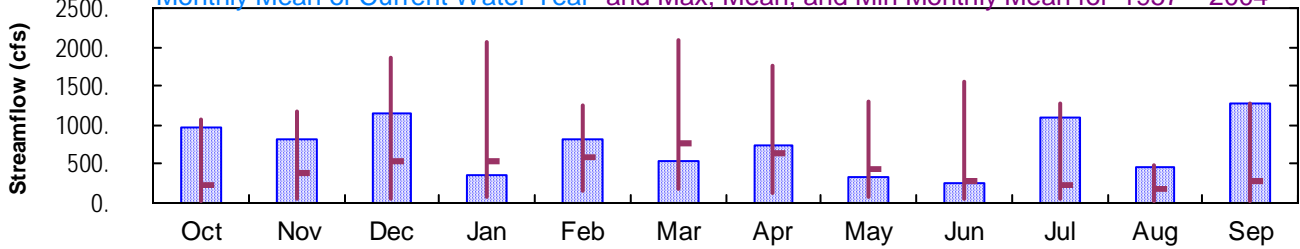
Hydrologic Unit Code: 02040203
Drainage Area: 279. mi²

Daily Mean Discharge

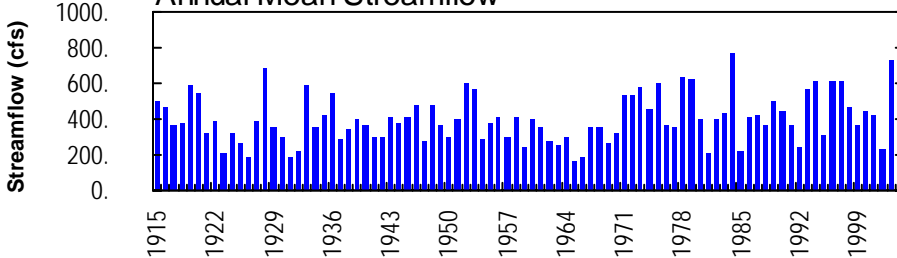


Monthly Statistics

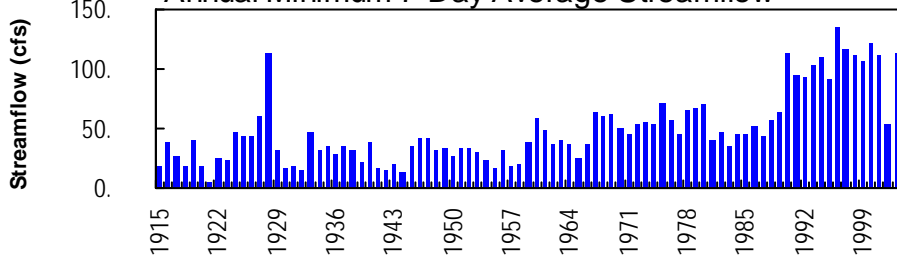
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1957 – 2004



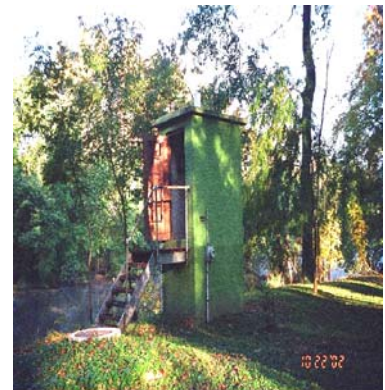
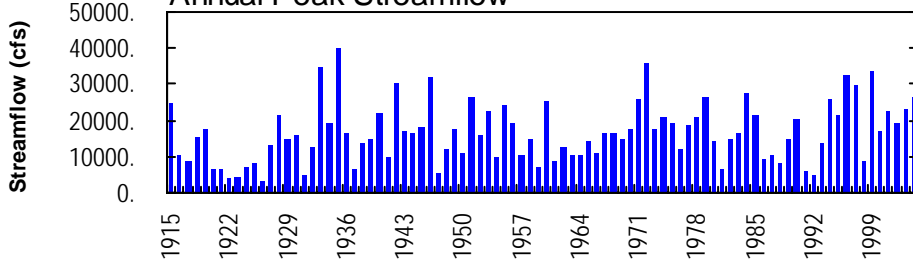
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



01473000-Perkiomen Creek at Graterford

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, 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	711	632	376	e230	357	515	376	333	124	1070	447
2	299	562	488	356	e240	412	511	342	245	117	704	276
3	261	477	393	353	e350	477	792	531	220	116	442	222
4	259	421	347	358	e1200	467	740	1050	182	107	353	199
5	297	463	363	1310	e1100	487	701	498	182	104	441	185
6	249	927	414	1010	4830	787	424	413	428	124	327	177
7	223	709	364	529	5070	701	350	378	282	108	265	171
8	214	481	328	e390	1450	513	329	355	211	126	236	663
9	207	374	315	e350	706	597	465	286	178	119	223	891
10	200	336	391	e330	777	503	384	271	161	110	201	424
11	195	319	7270	e310	883	426	337	250	174	104	210	270
12	188	571	1890	e290	574	377	327	229	188	3850	241	221
13	179	628	892	e280	477	306	2590	211	157	2610	2530	200
14	172	399	953	e270	479	268	2310	196	141	1610	738	184
15	1650	314	2340	e260	390	269	1330	192	178	3120	406	172
16	544	292	1060	e260	298	278	688	506	1780	747	318	178
17	371	281	4550	e250	277	328	466	308	389	433	284	181
18	477	266	2200	e280	271	358	451	237	302	628	250	13800
19	375	1610	1010	e270	281	920	398	261	235	1260	241	2800
20	298	5120	754	e260	338	1280	351	253	183	552	231	926
21	273	1140	581	e260	413	1750	290	212	159	359	241	600
22	271	721	506	e250	501	875	265	201	157	283	341	446
23	269	544	487	e250	384	530	288	182	179	249	242	365
24	222	464	2330	e240	363	436	309	166	156	255	204	332
25	193	607	1570	e240	365	400	280	154	142	234	187	328
26	190	461	809	e250	321	398	2020	160	166	207	175	331
27	8850	385	629	e240	306	386	2150	739	151	3250	165	335
28	4170	1010	519	e250	300	375	817	397	130	9520	162	2510
29	6140	2720	470	e240	319	310	536	254	146	1960	155	8980
30	1830	876	460	e230	---	283	434	183	144	796	760	1370
31	953	---	414	e240	---	613	---	177	---	528	1700	---
TOTAL	30350	24189	35729	10782	23493	16467	21848	9968	7679	33710	14043	38184
MEAN	979	806	1153	348	810	531	728	322	256	1087	453	1273
MAX	8850	5120	7270	1310	5070	1750	2590	1050	1780	9520	2530	13800
MIN	172	266	315	230	230	268	265	154	130	104	155	171

e Estimated.

SCHUYLKILL RIVER BASIN

01473000 PERKIOMEN CREEK AT GRATERFORD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	231	376	539	548	599	769	626	426	291	224	168	270
MAX	1059	1182	1869	2071	1241	2100	1759	1298	1544	1286	493	1273
(WY)	1997	1973	1997	1979	1971	1994	1983	1989	2003	1984	1971	2004
MIN	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 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1957 - 2004

ANNUAL TOTAL	296265	266442		
ANNUAL MEAN	812	728	421	
HIGHEST ANNUAL MEAN			767	1984
LOWEST ANNUAL MEAN			165	1965
HIGHEST DAILY MEAN	10600	Jun 21	13800	Sep 18
LOWEST DAILY MEAN	e 100	Feb 17	104	Jul 5
ANNUAL SEVEN-DAY MINIMUM	a 113	Feb 13	114	Jul 5
MAXIMUM PEAK FLOW			b 26500	Sep 18
MAXIMUM PEAK STAGE			14.80	Sep 18
10 PERCENT EXCEEDS	1790		1490	851
50 PERCENT EXCEEDS	374		350	186
90 PERCENT EXCEEDS	150		178	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	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
MAXIMUM PEAK FLOW	b 39900	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.