



2005 Water Year
SCHUYLKILL RIVER BASIN
01473000 Perkiomen Creek at Graterford, PA

Latitude: 40° 13 ' 46"

Longitude: 075° 27 ' 07"

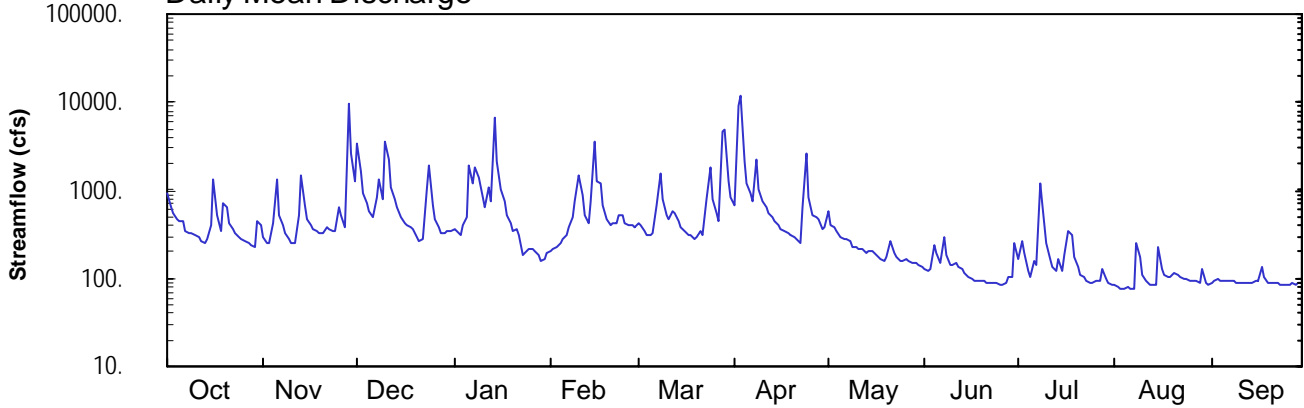
Hydrologic Unit Code: 02040203

Montgomery County

Datum: 112.66 feet

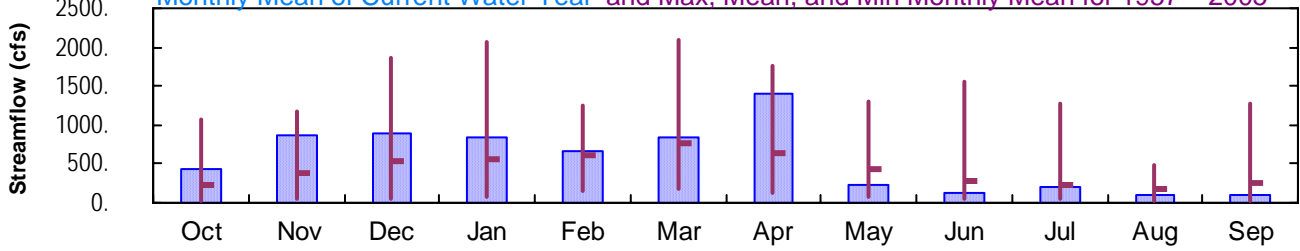
Drainage Area: 279. mi²

Daily Mean Discharge

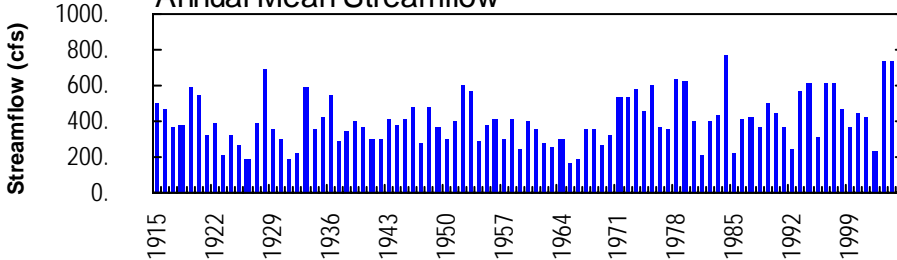


Monthly Statistics

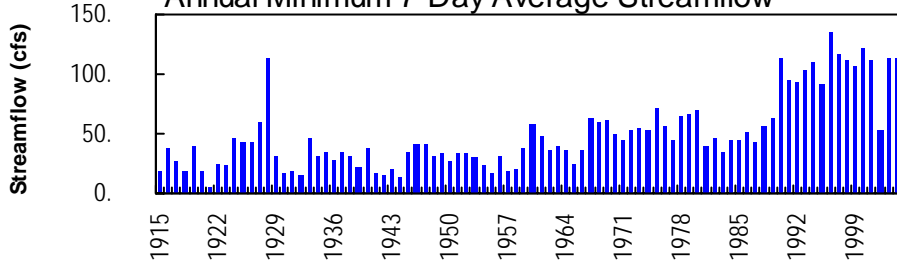
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1957 – 2005



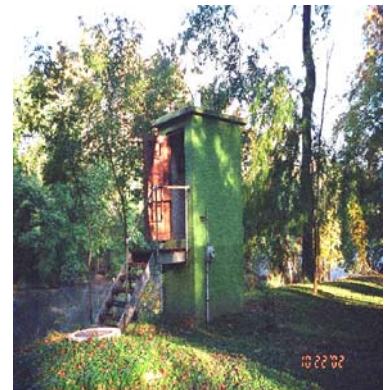
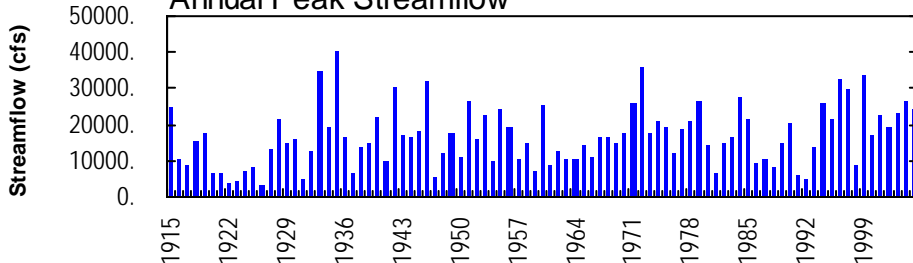
Annual Mean Streamflow



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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	917	292	3420	368	e200	418	680	592	127	170	83	89
2	640	254	1660	339	e220	399	9300	412	122	271	79	95
3	547	247	926	318	e230	341	11700	384	128	192	77	97
4	482	432	704	399	256	306	2170	336	238	119	74	96
5	452	1320	579	483	273	303	1190	299	191	106	79	96
6	436	530	491	1900	314	319	914	277	149	155	77	95
7	342	393	839	1200	385	660	762	285	287	139	76	94
8	331	333	1320	1800	491	1560	2270	263	183	1200	250	92
9	322	282	807	1370	736	804	1050	227	141	723	176	88
10	315	254	3520	823	1440	533	760	221	139	251	109	87
11	299	247	2270	639	868	468	632	215	152	163	93	88
12	272	510	1090	1080	522	567	536	214	133	134	87	88
13	254	1500	808	757	422	545	483	190	125	119	84	88
14	287	661	637	6780	754	444	438	201	117	167	83	90
15	393	461	489	2070	3610	376	395	203	106	121	230	93
16	1310	396	420	1010	1260	339	355	189	98	185	129	92
17	510	356	408	766	1190	318	339	178	96	346	107	138
18	348	339	379	518	691	305	333	166	94	303	102	105
19	705	333	368	e420	463	284	316	156	92	171	105	91
20	633	321	e300	e340	400	293	300	178	92	133	115	89
21	422	392	e260	e360	426	350	282	261	87	111	110	89
22	370	369	e280	e310	432	310	258	197	89	103	102	87
23	331	340	1000	e180	521	779	640	173	90	94	98	86
24	297	344	1920	e190	515	1850	2650	161	88	87	99	84
25	279	656	691	e210	435	783	813	160	84	88	95	84
26	261	509	470	e220	397	547	529	165	85	95	94	86
27	251	379	e380	e200	407	452	500	157	90	95	92	90
28	239	9730	e320	e180	385	4760	473	147	103	126	91	85
29	232	2630	e325	e160	---	4960	368	152	103	97	127	88
30	447	1280	338	e170	---	1260	383	144	247	89	88	88
31	398	---	347	e190	---	847	---	133	---	84	87	---
TOTAL	13322	26090	27766	25750	18243	26480	41819	7036	3876	6237	3298	2758
MEAN	430	870	896	831	652	854	1394	227	129	201	106	91.9
MAX	1310	9730	3520	6780	3610	4960	11700	592	287	1200	250	138
MIN	232	247	260	160	200	284	258	133	84	84	74	84

e Estimated.

SCHUYLKILL RIVER BASIN

01473000 PERKIOMEN CREEK AT GRATERFORD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	235	386	546	554	600	770	642	422	288	223	166	266
MAX (WY)	1059	1182	1869	2071	1241	2100	1759	1298	1544	1286	493	1273
MIN (WY)	1997	1973	1997	1979	1971	1994	1983	1989	2003	1984	1971	2004
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 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1957 - 2005

ANNUAL TOTAL	243352	202675	
ANNUAL MEAN	665	555	424
HIGHEST ANNUAL MEAN			767
LOWEST ANNUAL MEAN			165
HIGHEST DAILY MEAN	13800	Sep 18	11700
LOWEST DAILY MEAN	104	Jul 5	74
ANNUAL SEVEN-DAY MINIMUM	114	Jul 5	78
MAXIMUM PEAK FLOW			a24400
MAXIMUM PEAK STAGE			14.17
10 PERCENT EXCEEDS	1290	1060	853
50 PERCENT EXCEEDS	346	300	188
90 PERCENT EXCEEDS	178	89	63

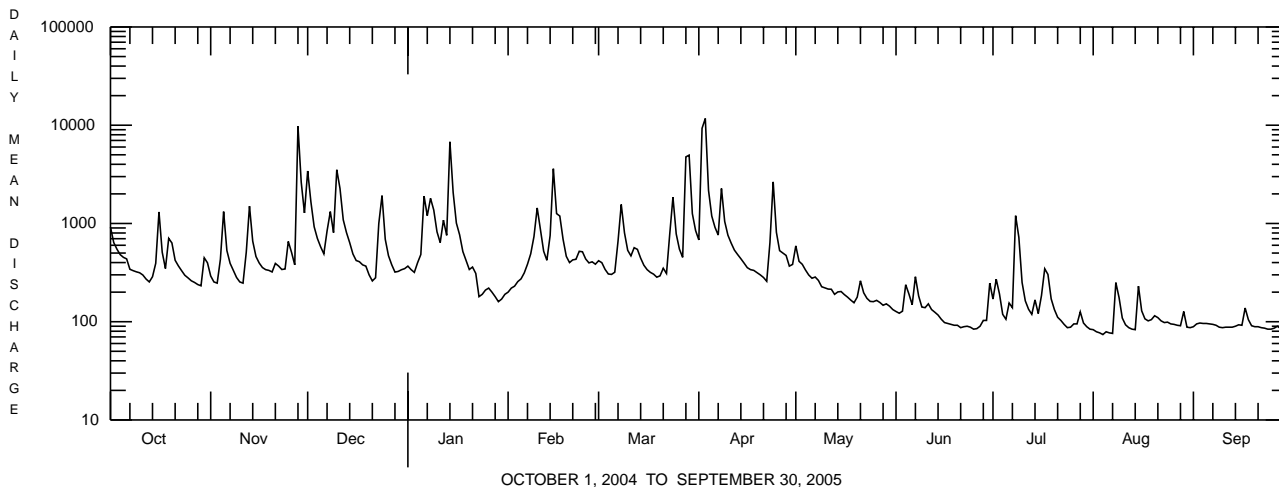
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1956, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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
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, 2004 TO SEPTEMBER 30, 2005