

SCHUYLKILL RIVER BASIN

01471510 SCHUYLKILL RIVER AT READING, PA

LOCATION.--Lat 40°20'05", long 75°56'12", Berks County, Hydrologic Unit 02040203, on left bank 200 ft downstream from bridge on Penn Street at Reading, and 1.0 mi downstream from Tulpehocken Creek.

DRAINAGE AREA.--880 mi².

PERIOD OF RECORD.--May 1914 to September 1915, October 1919 to September 1930, and July 1977 to current year. Prior to October 1914 monthly discharge only, published in WSP 1302. Diversion by Schuylkill Navigation Canal included during the navigation seasons of 1914-15.

REVISED RECORD.--WDR PA-78-1: 1977.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 185.50 ft above sea level (Pennsylvania Railroad datum). May 7, 1914, to Sept. 30, 1930, and July 6, 1979, to Dec. 5, 1980, nonrecording gage. June 30, 1977, to July 5, 1979, water-stage recorder at site 1,500 ft downstream on right bank at same datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by Still Creek Reservoir (station 01469200) since February 1933, Blue Marsh Lake (station 01470870) since April 1979, and to some extent by Lake Ontelaunee. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of about 31.3 ft at site 1,500 ft downstream, from floodmarks, discharge, about 90,000 ft³/s.

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	4110	639	1910	1000	e680	4440	2800	1240	1480	1820	1950	521
2	2820	777	1740	966	e640	3460	2580	1220	1390	1640	5850	914
3	2300	2000	1570	985	e600	2890	2430	1170	1260	1470	3040	643
4	2230	1530	1260	1030	e620	2520	2720	1100	1150	1380	3230	569
5	2720	1280	1200	1150	e640	2280	2670	1070	1100	1280	2300	536
6	2350	1110	1360	991	e620	2010	2270	1070	1900	1100	1790	505
7	2100	1030	1430	876	e580	1810	2110	1040	1930	995	1720	468
8	1860	955	1180	794	e530	1790	2070	1010	1250	905	1380	423
9	1680	882	1070	762	e520	1670	2870	955	1050	871	1160	390
10	2200	826	1090	969	e500	1490	2860	934	964	866	1030	401
11	2680	807	1140	2520	e490	1630	2750	1800	895	868	902	395
12	2350	736	1020	2210	e470	3370	2590	1400	1290	802	903	386
13	2290	706	986	1970	e440	3130	2300	1330	1900	754	859	781
14	2260	691	1440	1600	e600	2900	2120	2150	1950	719	855	741
15	1970	664	3340	1270	e1600	2690	2000	1640	1490	885	824	788
16	1740	628	3380	1300	e1200	2510	1960	1430	1380	1050	761	635
17	1660	603	2810	1110	e1700	3370	1920	1300	1280	851	649	506
18	1470	581	2310	1020	e1500	3170	1940	1210	1230	774	614	458
19	1140	580	2070	e940	e1400	2930	1720	1690	1250	730	605	744
20	1080	574	1900	e900	e1300	2640	1540	2090	1110	726	558	1770
21	1060	592	2100	e860	e1200	3310	1620	2000	1090	680	506	1290
22	919	592	1820	e800	e1100	15000	1970	1970	2050	673	458	903
23	909	573	1580	e880	e1100	9810	1820	2610	1810	590	453	651
24	860	572	1500	e920	e1500	7030	1700	3570	1390	584	506	618
25	784	655	1370	e820	2280	5330	1580	4600	1330	631	537	622
26	788	873	1330	e780	3500	4530	1520	3800	5480	651	487	757
27	821	3950	1310	e740	3570	3880	1540	2860	5110	640	497	874
28	751	2860	1260	e700	5760	5390	1480	2500	3040	594	548	703
29	695	2280	1190	e660	5850	5190	1410	2200	2130	577	512	595
30	656	2180	1110	e640	---	4040	1360	1890	2100	867	477	553
31	640	---	1050	e660	---	3250	---	1590	---	1880	457	---
TOTAL	51893	32726	49826	32823	42490	119460	62220	56439	52779	28853	36418	20140
MEAN	1674	1091	1607	1059	1465	3854	2074	1821	1759	931	1175	671
MAX	4110	3950	3380	2520	5850	15000	2870	4600	5480	1880	5850	1770
MIN	640	572	986	640	440	1490	1360	934	895	577	453	386

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	1071	1487	2038	1986	1977	2703	2440	2030	1343	947	722	787												
MAX	3390	2791	5763	5682	3358	6484	6472	5493	3411	2907	1531	2705												
(WY)	1980	1997	1997	1979	1984	1994	1983	1989	1982	1984	1994	1987												
MIN	322	360	278	265	681	824	606	724	415	330	307	273												
(WY)	1981	1981	1981	1981	1980	1985	1985	1999	1999	1999	1999	1983												

e Estimated.

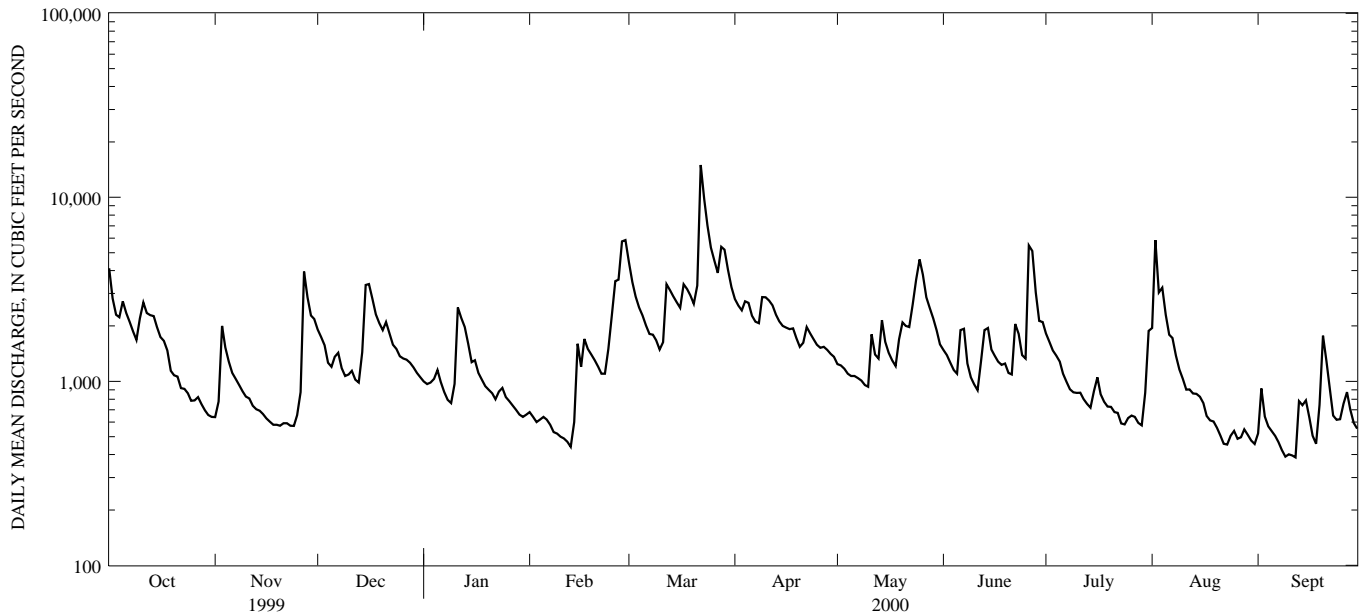
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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000	
ANNUAL TOTAL	505343		586067			
ANNUAL MEAN	1385		1601		1629	
HIGHEST ANNUAL MEAN					2559	1984
LOWEST ANNUAL MEAN					805	1985
HIGHEST DAILY MEAN	17700	Sep 17	15000	Mar 22	24700	Jan 25 1979
LOWEST DAILY MEAN	215	Aug 2	386	Sep 12	180	Oct 1 1980
ANNUAL SEVEN-DAY MINIMUM	233	Jul 31	424	Sep 6	224	Dec 24 1980
INSTANTANEOUS PEAK FLOW			17700	Mar 22	a 37500	Jan 25 1979
INSTANTANEOUS PEAK STAGE			11.65	Mar 22	b 17.36	Jan 25 1979
10 PERCENT EXCEEDS	2760		2890		3320	
50 PERCENT EXCEEDS	1080		1240		1080	
90 PERCENT EXCEEDS	286		580		404	

a From rating curve extended above 31,000 ft³/s.

b At site 1,500 ft downstream.



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