

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	535	385	674	873	1880	1600	3470	1080	999	896	433	366
2	576	397	577	846	1910	1570	3020	1080	1210	1030	395	349
3	637	384	532	787	1840	1510	2600	1010	1190	757	369	292
4	707	388	490	829	1670	1470	2330	951	1100	724	552	444
5	1270	389	487	811	1670	1540	2000	898	884	890	601	449
6	1190	377	474	815	1640	1430	1920	858	795	1050	525	344
7	1010	404	e466	774	1530	1400	2180	822	725	777	416	301
8	929	425	e464	770	1470	1510	1910	766	680	682	374	291
9	899	419	e454	733	1370	1480	1840	717	632	1080	351	284
10	819	682	e450	644	1620	1470	1930	713	599	773	494	323
11	716	821	e445	613	2010	1460	1870	693	584	684	484	306
12	659	590	e441	615	1900	1460	2070	673	593	631	553	295
13	613	523	e436	581	1860	2300	2070	660	635	526	529	273
14	617	592	e682	570	1820	3000	1990	615	606	494	523	314
15	613	590	1120	584	1800	2820	1910	596	526	471	455	332
16	536	472	1010	587	1740	2640	2300	584	600	454	394	296
17	450	444	9280	609	1910	2680	2300	581	1350	502	349	291
18	559	428	11500	650	1750	2570	2590	583	1030	553	320	274
19	844	422	6160	892	1650	2360	2330	591	842	522	316	291
20	622	406	4680	1480	1630	2220	2100	573	742	428	329	420
21	585	380	3290	1300	1600	2280	2040	743	733	419	326	882
22	553	369	2320	e997	1460	2830	1950	1270	2150	402	308	605
23	512	366	1840	e917	1390	2580	1790	1320	4160	376	310	404
24	481	354	e1600	e890	1340	2360	1600	971	2240	337	331	519
25	460	355	e1410	e850	1370	2220	1480	696	1620	586	353	2590
26	463	522	e1240	e843	1670	2020	1400	831	1380	2220	333	1760
27	465	970	e1140	e783	1720	1710	1350	1280	1200	1110	325	1160
28	475	842	e1050	e729	1660	1570	1310	1330	1010	682	319	877
29	445	725	e994	e689	---	1490	1230	1280	837	578	318	725
30	416	703	e954	e943	---	3450	1150	1200	799	527	298	631
31	384	---	e914	1800	---	4080	---	1060	---	468	326	---
TOTAL	20040	15124	57574	25804	46880	65080	60030	27025	32451	21629	12309	16688
MEAN	646	504	1857	832	1674	2099	2001	872	1082	698	397	556
MAX	1270	970	11500	1800	2010	4080	3470	1330	4160	2220	601	2590
MIN	384	354	436	570	1340	1400	1150	573	526	337	298	273

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, 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	2001
MEAN	1053	1446	2030	1938	1965	2678	2422	1982	1332	937	709	778													
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 2000 CALENDAR YEAR			FOR 2001 WATER YEAR		WATER YEARS 1977 - 2001	
ANNUAL TOTAL	544360			400634			
ANNUAL MEAN	1487			1098		1607	
HIGHEST ANNUAL MEAN						2559	
LOWEST ANNUAL MEAN						805	
HIGHEST DAILY MEAN	15000	Mar 22		11500	Dec 18	24700	Jan 25 1979
LOWEST DAILY MEAN	354	Nov 24		273	Sep 13	180	Oct 1 1980
ANNUAL SEVEN-DAY MINIMUM	379	Nov 19		296	Sep 13	224	Dec 24 1980
MAXIMUM PEAK FLOW				19600	Dec 17	a 37500	Jan 25 1979
MAXIMUM PEAK STAGE				12.44	Dec 17	b 17.36	Jan 25 1979
10 PERCENT EXCEEDS	2910			2080		3260	
50 PERCENT EXCEEDS	992			770		1060	
90 PERCENT EXCEEDS	458			366		402	

a From rating curve extended above 31,000 ft³/s.
b At site 1,500 ft downstream.

