

## 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 mi<sup>2</sup>.

**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 National Geodetic Vertical Datum of 1929 (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 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	563	301	573	e315	874	396	2060	2600	971	679	246	288
2	512	306	496	e305	965	402	1780	3030	902	550	239	297
3	483	303	407	e325	852	915	1550	3700	837	460	270	286
4	460	296	380	e350	834	1110	1480	3010	756	435	258	255
5	435	294	389	e345	746	819	1330	2640	679	405	253	251
6	440	315	376	e340	751	740	1250	2310	892	366	273	236
7	426	306	376	e365	744	715	1190	1960	1750	352	256	230
8	401	304	414	400	700	679	1150	1770	1300	354	245	226
9	417	303	599	392	663	640	1190	1880	1000	351	241	227
10	470	300	637	382	615	865	1360	1920	756	369	233	254
11	477	295	536	427	693	907	1240	1580	618	356	234	250
12	472	289	506	527	718	753	1090	1530	576	319	234	248
13	461	284	474	e510	637	763	1080	2120	1000	307	227	250
14	470	288	537	494	583	765	1230	2770	880	302	229	269
15	659	305	663	490	552	726	3550	2400	1080	307	257	292
16	768	334	594	492	552	699	3510	2010	900	301	258	447
17	627	334	546	492	555	677	2720	1800	797	289	281	466
18	619	327	750	464	535	848	2330	3130	738	282	261	299
19	505	319	972	429	501	1160	2030	3430	888	295	264	276
20	400	318	853	425	456	1510	1920	3020	874	300	279	283
21	391	327	776	441	493	e3000	1670	2840	754	293	232	298
22	384	317	691	442	489	2710	1650	2500	649	276	226	304
23	370	311	631	428	454	2320	1560	2130	603	267	234	401
24	315	311	668	616	428	2040	1390	1810	548	327	357	558
25	310	416	e565	1180	415	1820	1310	1610	462	320	285	315
26	314	965	e475	1270	408	1720	1290	1490	432	283	255	357
27	297	585	e390	1160	430	3300	1150	1410	558	281	233	943
28	298	434	e415	1050	416	3040	1740	1280	1370	282	240	1430
29	295	386	e390	901	---	2560	2950	1160	943	276	310	880
30	293	389	e355	844	---	2240	2710	1100	763	268	288	573
31	296	---	e325	851	---	2010	---	1030	---	260	264	---
TOTAL	13628	10562	16759	17452	17059	42849	52460	66970	25276	10512	7962	11689
MEAN	440	352	541	563	609	1382	1749	2160	843	339	257	390
MAX	768	965	972	1270	965	3300	3550	3700	1750	679	357	1430
MIN	293	284	325	305	408	396	1080	1030	432	260	226	226

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, BY WATER YEAR (WY)

MEAN	1029	1402	1971	1883	1911	2626	2395	1989	1313	914	691	763
MAX (WY)	3390	2791	5763	5682	3358	6484	6472	5493	3411	2907	1531	2705
MIN (WY)	1980	1997	1997	1979	1984	1994	1983	1989	1982	1984	1994	1987
MIN (WY)	322	352	278	265	609	824	606	724	415	330	257	273
(WY)	1981	2002	1981	1981	2002	1985	1985	1999	1999	1999	2002	1983

e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1977 - 2002	
ANNUAL TOTAL	348845		293178			
ANNUAL MEAN	956		803		1575	
HIGHEST ANNUAL MEAN					2559	1984
LOWEST ANNUAL MEAN					803	2002
HIGHEST DAILY MEAN	4160	Jun 23	3700	May 3	24700	Jan 25 1979
LOWEST DAILY MEAN	273	Sep 13	226	Aug 22	180	Oct 1 1980
ANNUAL SEVEN-DAY MINIMUM	295	Nov 8	235	Aug 8	224	Dec 24 1980
MAXIMUM PEAK FLOW			4860	Apr 15	<b>a</b> 37500	Jan 25 1979
MAXIMUM PEAK STAGE			5.76	Apr 15	<b>b</b> 17.50	Apr 16 1983
10 PERCENT EXCEEDS	1990		1900		3200	
50 PERCENT EXCEEDS	673		493		1050	
90 PERCENT EXCEEDS	313		269		394	

**a** From rating curve extended above 31,000 ft<sup>3</sup>/s, gage height 17.36 ft, at site 150 ft downstream.  
**b** Discharge, 33,100 ft<sup>3</sup>/s, from rating curve extended above 31,000 ft<sup>3</sup>/s.

