

SCHUYLKILL RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA

LOCATION.--Lat 39°58'04", long 75°11'20", Philadelphia County, Hydrologic Unit 02040203, on right bank 150 ft upstream from Fairmount Dam, 1,500 ft upstream from bridge on Spring Garden Street in Philadelphia, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--1,893 mi².

PERIOD OF RECORD.--October 1931 to current year. Records for January 1898 to December 1912, published in WSP 35, 48, 65, 82, 97, 125, 166, 202, 214, 261, 301, and 381 have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1302: 1936(M). WSP 1432: 1945. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 5.74 ft above sea level. Prior to Nov. 25, 1956, water-stage recorder at site on right bank just upstream from Fairmount Dam at same datum. Nov. 26, 1956, to Oct. 6, 1966, water-stage recorder at site on left bank 40 ft upstream from Fairmount Dam at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Still Creek Reservoir (station 01469200) since February 1933, Blue Marsh Lake (station 01470870) since April 1979, Green Lane Reservoir (station 01472200) since December 1956 and to some extent by Lake Ontelaunee. Daily mean discharges do not include diversion above station by city of Philadelphia for municipal water supply. Satellite and landline telemetry at station.

COOPERATION.--Records of diversion provided by Philadelphia Water Department.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 4, 1869 reached a stage of 17.0 ft, discharge, about 135,000 ft³/s. Flood of Mar. 1, 1902 reached a stage of 14.8 ft, discharge, about 98,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	1730	*38,300	*10.68	Mar. 30	1630	19,000	8.72

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	1150	736	1380	1490	5400	3230	7580	2220	2190	1620	755	498
2	1120	713	1270	1580	4790	2950	6210	2060	4510	3880	676	639
3	1050	685	1090	1260	4260	2870	5320	2000	3530	2130	569	530
4	1200	707	1020	1340	3570	2810	4660	1840	2610	1500	574	530
5	3830	681	974	1340	4180	3250	4220	1700	2210	1620	890	715
6	2520	716	951	1350	4240	3110	3790	1600	1800	1500	941	755
7	2020	687	933	1380	4310	2890	4600	1560	1630	1640	786	583
8	1660	683	899	1390	4040	3780	4200	1470	1440	1320	619	474
9	1490	749	898	1370	3490	3710	4290	1430	1310	1290	536	432
10	1380	1190	867	1280	8160	3680	4730	1350	1240	1650	531	468
11	1290	1490	881	1150	6770	3170	4310	1260	1200	1270	1140	436
12	1170	1320	846	1040	4520	2980	4990	1270	1160	1050	2430	509
13	1070	1070	829	1090	3940	6960	4570	1200	1200	986	5300	436
14	1020	1030	2620	1080	3890	6540	4030	1210	1250	870	1550	589
15	994	1190	3600	1220	4090	5530	3710	1120	1170	833	1090	523
16	1010	1120	2440	1460	4200	5170	4460	1080	2890	840	867	495
17	939	961	21400	1400	5260	5930	4940	1100	11500	765	695	521
18	942	858	23000	1380	4320	5340	4860	1070	3560	1110	637	429
19	1560	854	11300	2900	3500	4630	5260	1120	2200	1100	627	409
20	1390	838	7920	8310	3250	4020	4260	1070	1750	892	707	452
21	1150	811	6340	5070	3140	4870	3900	1540	1530	739	603	2290
22	1010	773	4660	3310	3000	9380	3780	3950	1460	709	551	1510
23	974	723	3510	2530	2700	5970	3580	4150	7650	715	530	1050
24	888	731	2950	2320	2660	4840	3280	2750	5960	642	480	765
25	864	705	2590	2230	2690	4330	2950	1860	3600	585	496	2120
26	817	1840	2190	1980	4370	3990	2740	2830	2630	2240	524	4180
27	788	2810	2130	1850	4240	3560	2600	10100	2260	3410	591	2370
28	815	1880	2000	1690	3560	3100	2530	5740	1960	1690	501	1580
29	781	1580	1660	1610	---	2920	2420	3540	1650	1120	476	1260
30	804	1500	1620	3050	---	12200	2350	2790	1430	1020	474	1070
31	772	---	1570	6630	---	10300	---	2380	---	889	466	---
TOTAL	38468	31631	116338	67080	116540	148010	125120	70360	80480	41625	27612	28618
MEAN	1241	1054	3753	2164	4162	4775	4171	2270	2683	1343	891	954
MAX	3830	2810	23000	8310	8160	12200	7580	10100	11500	3880	5300	4180
MIN	772	681	829	1040	2660	2810	2350	1070	1160	585	466	409
(†)	196	177	189	208	199	199	184	181	197	206	220	200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2001, BY WATER YEAR (WY)

MEAN	1408	2309	3176	3362	3648	4880	4259	3110	2119	1622	1380	1436
MAX	5624	6272	11150	11400	8136	13320	11620	9943	11640	6434	7980	5300
(WY)	1997	1973	1997	1979	1939	1936	1983	1989	1972	1984	1933	1999
MIN	89.4	223	444	340	647	1552	1237	693	261	116	140	117
(WY)	1942	1932	1981	1981	1934	1981	1985	1965	1966	1966	1966	1932

† Diversion for municipal supply of City of Philadelphia, equivalent in cubic feet per second.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 1932 - 2001		
ANNUAL TOTAL	1046151			891882			2721		
ANNUAL MEAN	2858			2444			4791		
HIGHEST ANNUAL MEAN							1984		
LOWEST ANNUAL MEAN							1014		
HIGHEST DAILY MEAN	35500	Mar	22	23000	Dec	18	93400	Jun	23 1972
LOWEST DAILY MEAN	681	Nov	5	409	Sep	19	.60	Sep	2 1966
ANNUAL SEVEN-DAY MINIMUM	696	Nov	2	477	Sep	7	24	Sep	28 1941
MAXIMUM PEAK FLOW				38300	Dec	17	a103000	Jun	23 1972
MAXIMUM PEAK STAGE				10.68	Dec	17	14.65	Jun	23 1972
INSTANTANEOUS LOW FLOW				242	Sep	20	.00	Sep	2 1966
10 PERCENT EXCEEDS	5400			4850			5820		
50 PERCENT EXCEEDS	1900			1550			1670		
90 PERCENT EXCEEDS	912			638			439		

a From rating curve extended above 92,000 ft³/s.

