

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 National Geodetic Vertical Datum of 1929. 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)
Nov. 28	1730	39,000	10.40	Mar. 29	1830	34,000	9.98
Dec. 1	1930	20,200	8.64	Apr. 3	0430	*56,800	*11.74
Jan. 14	1830	34,300	10.01				

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	9330	3070	14500	3480	2660	3330	8220	3630	1220	1110	845	678
2	6850	2500	15400	3380	2550	3290	21200	3210	1240	1270	756	580
3	5530	2550	11100	3180	2480	2990	46300	2840	1380	1050	676	592
4	4930	3130	8540	3140	2380	2680	25800	2670	2060	867	657	560
5	4350	6070	7080	3910	2470	2580	16600	2480	1600	784	588	543
6	3800	3850	5860	6230	2580	2580	12600	2310	1550	1510	601	580
7	3320	3140	5750	7500	2780	2920	10500	2310	3270	1310	666	522
8	3010	2850	7280	7560	3010	5140	13200	2280	1920	4270	892	578
9	2880	2520	5790	10300	3470	5070	9350	2190	1530	6150	1470	592
10	2750	2270	11000	8120	4820	4270	7000	2080	1390	3360	1070	566
11	2590	2110	12800	7170	4640	3920	6200	1990	1410	2220	940	609
12	2430	2660	10300	8060	3520	3840	5420	1890	1250	1410	733	644
13	2290	6420	8180	6900	3020	3630	4950	1780	1270	1210	711	685
14	2890	4280	6950	19600	3240	3370	4640	1750	1150	1560	731	632
15	3250	3320	5990	19300	10400	3130	4310	1750	1070	1940	1460	1090
16	4930	2940	5310	12800	7710	2920	3940	1840	982	2440	982	903
17	3770	2790	4890	9720	6650	2820	3680	1850	866	3100	1020	711
18	2950	2660	4470	7700	5200	2720	3570	1660	901	4470	872	767
19	3730	2450	4100	6240	4320	2630	3360	1570	838	3100	716	673
20	4690	2460	3910	5740	3870	2650	3160	1820	873	2610	816	564
21	3970	2640	3420	5190	3860	2860	2930	2030	841	1920	855	527
22	3420	2660	3140	4370	3990	2690	2770	1820	788	1470	821	563
23	3220	2410	3930	3640	4000	3190	3300	1620	755	1200	682	575
24	2880	2310	10600	4350	3860	7860	7820	1480	694	1070	678	619
25	2750	2880	7340	4120	3560	6220	4920	1480	701	1100	685	664
26	2520	3680	5550	4020	3390	5250	3620	1500	647	1110	615	761
27	2340	3560	4850	3660	3230	4600	3370	1440	770	1050	751	769
28	2210	21900	4610	2980	3160	9650	3340	1370	849	1310	866	648
29	2100	20500	4380	2750	---	26400	3000	1340	766	1160	1090	769
30	2970	12500	4010	2860	---	17100	3020	1400	853	905	1120	748
31	3860	---	3640	2790	---	11100	---	1340	---	838	851	---
TOTAL	112510	139080	214670	200760	110820	163400	252090	60720	35434	58874	26216	19712
MEAN	3629	4636	6925	6476	3958	5271	8403	1959	1181	1899	846	657
MAX	9330	21900	15400	19600	10400	26400	46300	3630	3270	6150	1470	1090
MIN	2100	2110	3140	2750	2380	2580	2770	1340	647	784	588	522
(†)	186	190	197	195	194	181	178	181	194	201	215	208

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

SCHUYLKILL RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005, BY WATER YEAR (WY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1494	2381	3298	3380	3623	4869	4292	3099	2213	1687	1438	1549
MAX (WY)	5624	6272	11150	11400	8136	13320	11620	9943	11640	6434	7980	6894
MIN (WY)	1997	1973	1997	1979	1939	1936	1983	1989	1972	1984	1933	2004
MIN (WY)	89.4	223	444	340	647	1552	1237	693	261	116	140	117
(WY)	1942	1932	1981	1981	1934	1981	1985	1965	1965	1966	1966	1932

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1932 - 2005

ANNUAL TOTAL	1647935	1394286	2773	
ANNUAL MEAN	4503	3820	1014	1984
HIGHEST ANNUAL MEAN			4791	1965
LOWEST ANNUAL MEAN			1014	1965
HIGHEST DAILY MEAN	40100	Sep 29	46300	Apr 3
LOWEST DAILY MEAN	844	Jul 11	522	Sep 7
ANNUAL SEVEN-DAY MINIMUM	1000	Jul 5	563	Sep 4
MAXIMUM PEAK FLOW			56800	Apr 3
MAXIMUM PEAK STAGE			11.74	Apr 3
INSTANTANEOUS LOW FLOW			307	Sep 22
10 PERCENT EXCEEDS	8290	7750	5950	
50 PERCENT EXCEEDS	3160	2790	1710	
90 PERCENT EXCEEDS	1830	714	450	

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

b No flow over dam at times.

