



2004 Water Year SCHUYLKILL RIVER BASIN

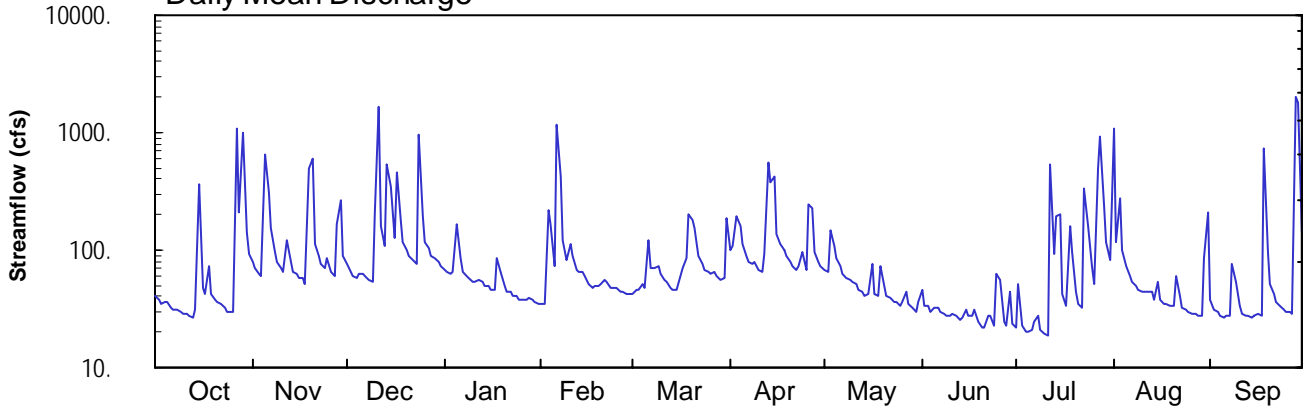
01473900 Wissahickon Creek at Fort Washington, PA

Latitude: 40° 07' 26"
Montgomery County

Longitude: 075° 13' 13"
Datum: 139.98 feet

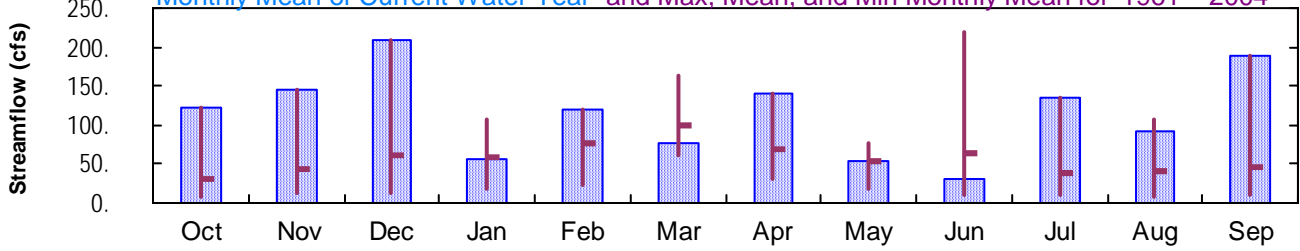
Hydrologic Unit Code: 02040203
Drainage Area: 40.8 mi²

Daily Mean Discharge

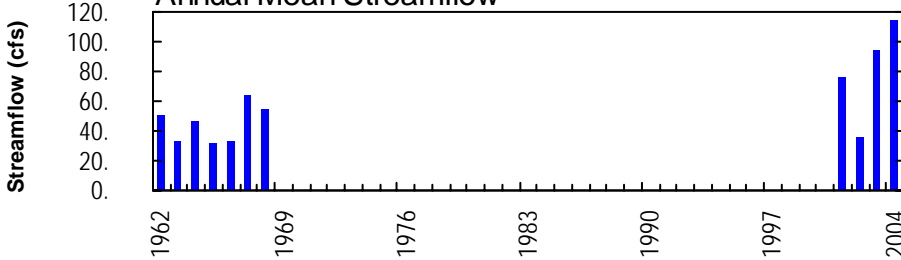


Monthly Statistics

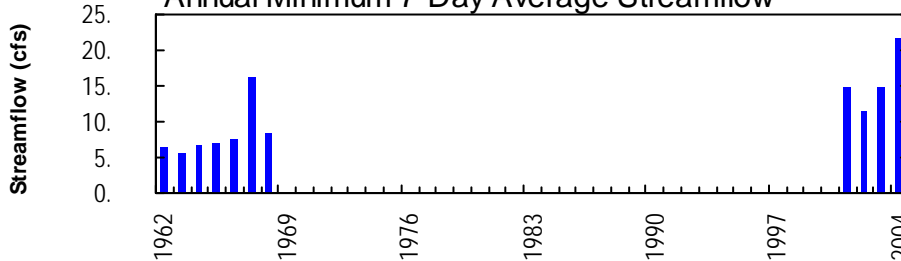
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1961 – 2004



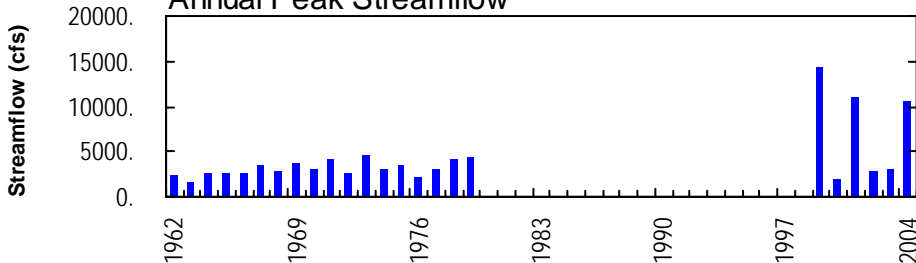
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



01473900-Wissahickon Creek at Fort Washington

SCHUYLKILL RIVER BASIN

**01473900 WISSAHICKON CREEK AT FORT WASHINGTON, PA
(Pennsylvania Water-Quality Network Station)**

LOCATION.--Lat 40°07'26", long 75°13'13", Montgomery County, Hydrologic Unit 02040203, on left bank at downstream side of bridge on State Highway 73, 0.5 mi downstream from Sandy Run, and 1 mi south of Fort Washington.

DRAINAGE AREA.--40.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1961 to March 1969; June 2000 to current year; Annual maximums, October 1969 to September 1979, at site and datum then in use.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 139.98 ft above National Geodetic Vertical Datum of 1929. From Sept. 1961 to Mar. 1969 gage at present site at datum 140.70 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 16, 1999, reached a stage of 18.05 ft, from floodmarks, discharge about 14,300 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s (revised) and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 5	2215	3,330	10.12	Feb. 6	1545	3,450	10.30
Nov. 19	2145	2,530	8.87	July 28	0245	3,210	9.96
Dec. 11	1015	3,770	10.72	Aug. 1	1145	4,060	11.09
Dec. 24	1030	2,500	8.81	Sept. 28	2230	*10,600	*16.07

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	78	75	68	35	42	100	67	46	22	1080	37
2	38	69	66	66	34	45	108	64	34	52	116	32
3	35	63	60	64	218	45	195	149	33	23	272	30
4	37	60	57	65	165	52	157	110	30	21	98	27
5	36	644	63	164	75	47	111	86	32	20	73	26
6	32	313	64	86	1170	120	88	72	32	21	60	28
7	31	155	60	66	423	69	80	63	30	25	54	28
8	31	95	56	60	122	70	77	58	29	28	49	77
9	30	78	53	68	83	75	78	55	28	21	45	53
10	29	70	207	53	113	63	68	54	28	19	43	34
11	28	66	1650	53	88	56	65	51	29	19	43	29
12	27	122	162	55	69	53	94	46	27	536	44	28
13	26	80	108	54	65	48	557	44	25	94	43	27
14	31	66	546	50	65	46	380	42	26	191	38	26
15	363	61	349	49	59	46	416	42	31	202	53	28
16	48	58	127	e46	52	59	137	77	27	43	38	29
17	43	57	462	46	48	70	112	42	28	33	35	27
18	74	52	177	87	49	85	99	40	31	163	34	719
19	43	501	117	64	50	199	e90	72	24	97	34	95
20	38	602	101	49	51	178	e80	49	22	44	33	51
21	36	113	88	45	56	152	72	41	22	35	61	42
22	35	88	82	44	53	89	68	39	27	33	41	36
23	32	77	76	41	48	75	72	37	27	339	32	33
24	30	72	960	40	48	69	95	36	22	157	31	31
25	29	86	191	38	48	66	67	33	63	72	30	30
26	30	65	119	38	45	63	249	37	55	51	29	29
27	1060	61	102	38	43	66	229	45	25	497	29	29
28	207	165	90	40	43	61	97	36	22	939	28	2040
29	1020	262	84	37	42	57	79	32	45	235	27	1780
30	140	87	80	37	---	57	72	30	24	115	85	145
31	93	---	72	35	---	186	---	37	---	82	208	---
TOTAL	3773	4366	6504	1736	3460	2409	4192	1686	924	4229	2886	5626
MEAN	122	146	210	56.0	119	77.7	140	54.4	30.8	136	93.1	188
MAX	1060	644	1650	164	1170	199	557	149	63	939	1080	2040
MIN	26	52	53	35	34	42	65	30	22	19	27	26
CFSM	2.98	3.57	5.14	1.37	2.92	1.90	3.42	1.33	0.75	3.34	2.28	4.60
IN.	3.44	3.98	5.93	1.58	3.15	2.20	3.82	1.54	0.84	3.86	2.63	5.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

MEAN	31.3	42.6	62.4	59.7	77.3	98.5	68.9	52.3	64.6	37.1	41.0	45.1
MAX	122	146	210	108	119	162	140	77.5	219	136	107	188
(WY)	2004	2004	2004	1964	2004	2003	2004	1968	2001	2004	1967	2004
MIN	7.45	11.7	14.0	17.4	23.8	61.6	30.2	17.2	10.9	9.88	8.55	11.3
(WY)	1964	1966	1966	1966	2002	1965	1963	1963	1963	1962	1964	1968

e Estimated.

SCHUYLKILL RIVER BASIN

01473900 WISSAHICKON CREEK AT FORT WASHINGTON, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1961 - 2004	
ANNUAL TOTAL	42261		41791			
ANNUAL MEAN	116		114		57.8	
HIGHEST ANNUAL MEAN					114	2004
LOWEST ANNUAL MEAN					31.6	1965
HIGHEST DAILY MEAN	1650	Dec 11	2040	Sep 28	2490	Jun 17 2001
LOWEST DAILY MEAN	23	Jul 31, Sep 12	19	Jul 10, 11	4.6	Jul 5 1963
ANNUAL SEVEN-DAY MINIMUM	26	Jul 25	22	Jul 5	5.6	Jul 1 1963
MAXIMUM PEAK FLOW			a 10600	Sep 28	a 11000	Jun 17 2001
MAXIMUM PEAK STAGE			16.07	Sep 28	b 16.30	Jun 17 2001
INSTANTANEOUS LOW FLOW			16	Jul 10, 11	2.9	Sep 2 1963
ANNUAL RUNOFF (CFSM)	2.84		2.80		1.42	
ANNUAL RUNOFF (INCHES)	38.53		38.10		19.25	
10 PERCENT EXCEEDS	248		196		105	
50 PERCENT EXCEEDS	60		56		29	
90 PERCENT EXCEEDS	29		28		9.5	

a From rating curve extended above 3,670 ft³/s on basis of slope-area measurement at gage height 16.30 ft.

b From floodmark.

SCHUYLKILL RIVER BASIN

01473900 WISSAHICKON CREEK AT FORT WASHINGTON, PA--Continued
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (90095)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, unfltrd recover -able, mg/L (00916)	Magnesium, water, unfltrd recover -able, mg/L (00927)
OCT 2003 06...	1320	1028	9813	33	11.5	7.9	8.0	705	714	13.3	180	45.8	17.0
DEC 04...	1300	1028	9813	58	14.3	7.8	7.9	607	608	5.2	160	39.1	15.0
FEB 2004 25...	1050	1028	9813	45	16.9	7.9	7.9	777	781	3.8	190	46.1	17.2
APR 19...	1120	1028	9813	E90	13.8	8.3	8.1	627	620	14.6	170	41.9	15.5
JUN 28...	1150	1028	9813	23	8.8	7.8	7.7	684	695	19.7	180	42.0	17.3
AUG 23...	1300	1028	9813	32	10.2	7.9	7.9	595	608	20.2	170	41.3	16.3

Date	ANC, wat unfltrd end pt, lab, mg/L as CaCO3 (00417)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat fltrd, mg/L (00515)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water, unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recover -able, µg/L (01105)	Copper, water, unfltrd recover -able, µg/L (01042)
OCT 2003 06...	105	71.1	532	2	<.020	8.00	<.200	1.13	1.33	8.9	5.1	240	10
DEC 04...	100	50.6	442	<2	.040	6.36	<.200	.82	.915	7.1	4.6	<200	<10
FEB 2004 25...	98	68.0	496	<2	.080	6.49	.200	.85	.999	7.5	5.3	<200	10
APR 19...	92	46.8	354	6	.030	3.44	<.040	.47	.569	4.1	4.1	<200	<10
JUN 28...	98	60.7	470	12	.020	7.91	.090	1.44	1.52	8.6	6.7	<200	20
AUG 23...	95	49.2	436	2	<.020	6.04	<.200	1.10	1.24	6.7	5.8	<200	10

Date	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01051)	Manganese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, unfltrd recover -able, µg/L (01092)
OCT 2003 06...	100	<1.0	10	<50	20
DEC 04...	190	<1.0	30	<50	260
FEB 2004 25...	160	<1.0	50	<50	20
APR 19...	200	<1.0	40	<50	10
JUN 28...	230	<1.0	50	<50	20
AUG 23...	140	<1.0	30	<50	20

SCHUYLKILL RIVER BASIN

01473900 WISSAHICKON CREEK AT FORT WASHINGTON, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using a D-Frame net with a mesh size of 500 µm. Samples represent counts per 100 animal (approximate) subsamples.

Date	09/09/03
Benthic macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	12
Mollusca	
Bivalvia (CLAMS)	
Veneroida	
Sphaeriidae	
<i>Sphaerium</i>	7
Annelida	
Hirudinea (LEECHES)	
Arhynchobdellida	
Erpobdellidae	2
Arthropoda	
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<i>Baetis</i>	12
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<i>Cheumatopsyche</i>	15
<i>Hydropsyche</i>	15
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Stenelmis</i>	24
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	
Simuliidae (BLACK FLIES)	
<i>Simulium</i>	1
Total Organisms	
	129
Total Taxa	
	9