



2005 Water Year
SCHUYLKILL RIVER BASIN
01473900 Wissahickon Creek at Fort Washington, PA

Latitude: 40° 07 ' 26"

Longitude: 075° 13 ' 13"

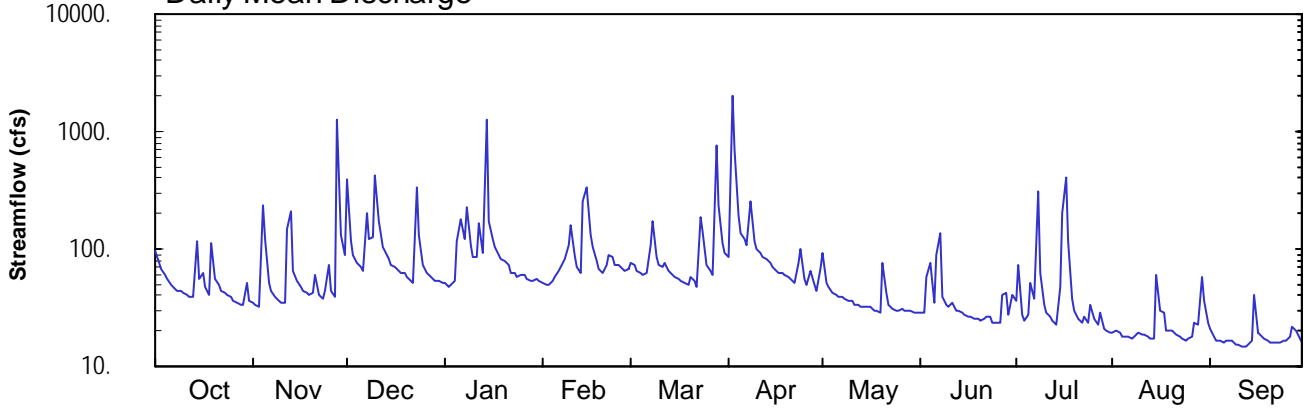
Hydrologic Unit Code: 02040203

Montgomery County

Datum: 139.98 feet

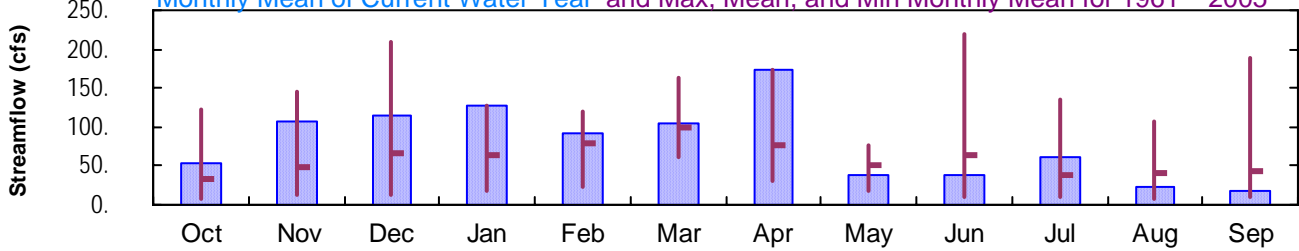
Drainage Area: 40.8 mi²

Daily Mean Discharge

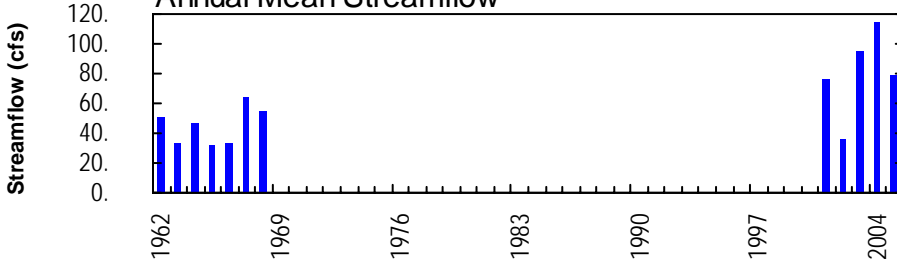


Monthly Statistics

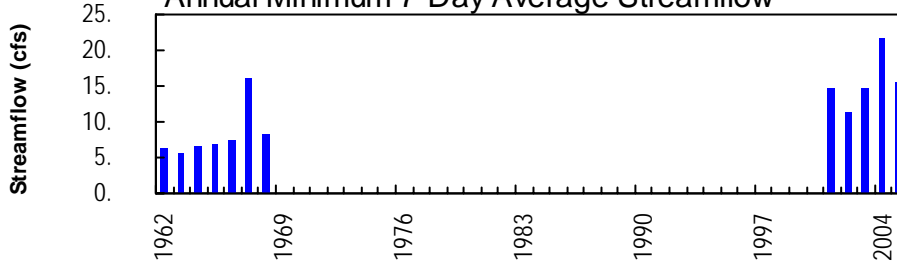
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1961 – 2005



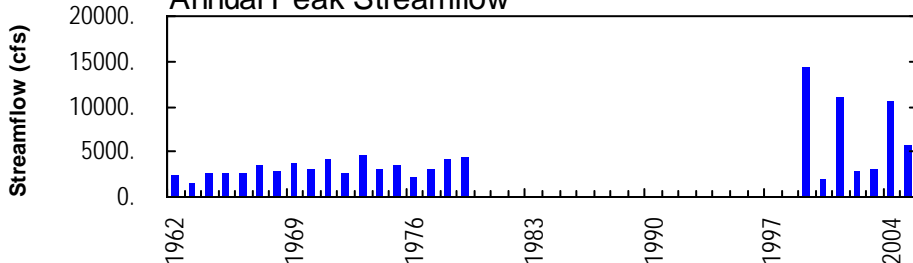
Annual Mean Streamflow



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 fair except those for estimated daily discharges, which are poor. Several measurements of water 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 and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 28	1130	3,760	10.71	Mar. 28	1845	2,710	9.18
Jan. 14	1145	3,500	10.36	Apr. 2	2100	*5,730	*12.65

**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	96	34	392	51	51	77	85	94	29	36	20	21
2	77	34	117	48	50	73	2060	52	28	73	20	18
3	67	32	90	50	50	65	698	48	57	28	19	17
4	60	240	77	53	53	62	191	43	77	24	18	16
5	55	121	70	116	59	61	138	41	35	28	18	16
6	50	52	65	e180	64	63	120	40	88	51	18	17
7	47	44	203	e120	70	109	109	39	139	38	17	17
8	45	39	120	225	82	172	250	38	39	314	18	17
9	43	37	126	109	108	87	115	37	34	63	19	15
10	42	35	426	86	158	73	100	36	33	33	19	15
11	40	35	172	86	88	70	91	34	34	28	18	15
12	39	147	106	167	71	76	85	33	30	26	18	15
13	39	213	95	91	64	65	81	32	30	24	17	15
14	116	66	83	1270	251	61	76	32	29	23	17	17
15	56	54	74	176	333	57	69	32	27	48	61	41
16	64	48	70	120	132	55	66	32	26	204	30	20
17	48	44	68	104	104	53	63	30	26	407	28	18
18	40	42	64	88	80	51	62	30	25	117	20	17
19	111	40	63	e82	68	50	59	29	25	38	20	17
20	56	42	57	e78	63	57	58	76	25	30	20	16
21	49	59	53	72	74	54	54	43	26	26	19	16
22	45	41	52	e62	90	48	e52	33	26	23	18	16
23	42	38	340	e63	86	188	e76	32	26	26	17	16
24	40	44	131	e58	74	143	e100	30	24	23	17	16
25	39	72	73	e60	73	73	e56	30	23	34	17	17
26	37	44	63	e61	70	64	50	31	23	26	18	18
27	34	39	60	e56	66	61	65	30	40	23	24	22
28	34	1260	55	e53	69	773	50	30	42	29	23	20
29	33	132	54	54	---	236	43	30	28	21	58	18
30	51	90	53	56	---	111	68	29	41	20	36	16
31	36	---	52	53	---	92	---	29	---	19	23	---
TOTAL	1631	3218	3524	3948	2601	3280	5190	1175	1135	1903	705	535
MEAN	52.6	107	114	127	92.9	106	173	37.9	37.8	61.4	22.7	17.8
MAX (WY)	116	1260	426	1270	333	773	2060	94	139	407	61	41
MIN	33	32	52	48	50	48	43	29	23	19	17	15
CFSM	1.29	2.63	2.79	3.12	2.28	2.59	4.24	0.93	0.93	1.50	0.56	0.44
IN.	1.49	2.93	3.21	3.60	2.37	2.99	4.73	1.07	1.03	1.74	0.64	0.49

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MEAN	32.9	47.6	66.3	64.9	78.5	99.0	77.6	51.1	62.5	38.9	39.6	43.1
MAX (WY)	122	146	210	127	119	162	173	77.5	219	136	107	188
MIN (WY)	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)	2004	2004	2004	2005	2004	2003	2005	1968	2001	2004	1967	2004
MIN (WY)	1964	1966	1966	1966	2002	1965	1963	1963	1963	1962	1964	1968

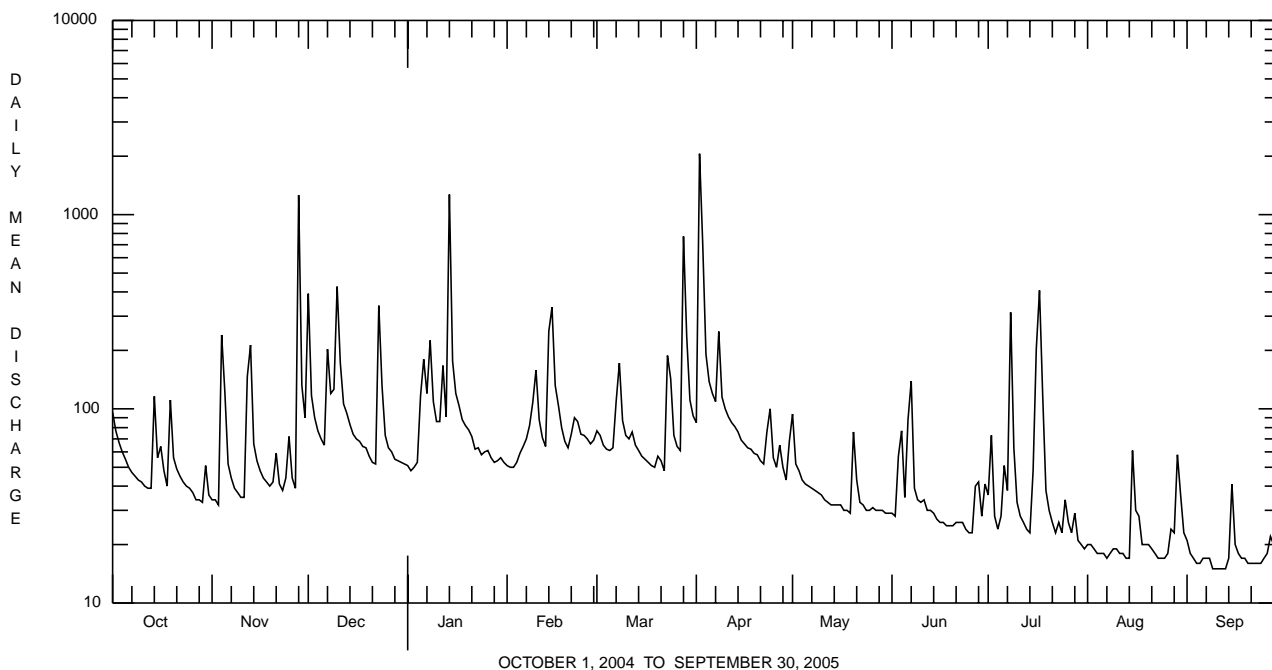
e Estimated.

SCHUYLKILL RIVER BASIN

01473900 WISSAHICKON CREEK AT FORT WASHINGTON, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF DAILY RECORD	
ANNUAL TOTAL	35521		28845			
ANNUAL MEAN	97.1		79.0		59.6	
HIGHEST ANNUAL MEAN					114	2004
LOWEST ANNUAL MEAN					31.6	1965
HIGHEST DAILY MEAN	2040	Sep 28	2060	Apr 2	2490	Jun 17 2001
LOWEST DAILY MEAN	19	Jul 10,11	15	Sep 9-13	4.6	Jul 5 1963
ANNUAL SEVEN-DAY MINIMUM	22	Jul 5	16	Sep 7	5.6	Jul 1 1963
MAXIMUM PEAK FLOW			a5730	Apr 2	a11000	Jun 17 2001
MAXIMUM PEAK STAGE			12.65	Apr 2	b16.30	Jun 17 2001
INSTANTANEOUS LOW FLOW			13	Sep 5c	2.9	Sep 2 1963
ANNUAL RUNOFF (CFSM)	2.38		1.94		1.46	
ANNUAL RUNOFF (INCHES)	32.39		26.30		19.84	
10 PERCENT EXCEEDS	159		120		108	
50 PERCENT EXCEEDS	52		50		30	
90 PERCENT EXCEEDS	28		18		9.7	

- 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.
- c Also Sept. 10-14, 22, 24.



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 2004 TO SEPTEMBER 2005

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)
NOV 09...	1210	1028	9813	35	11.7	7.6	7.9	663	660	8.9	180	45	16
JAN 12...	1200	1028	9813	131	13.2	7.5	7.8	437	436	6.5	120	29	11
MAR 29...	1110	1028	9813	203	11.2	7.5	7.8	521	508	8.3	130	31	12
MAY 24...	1210	1028	9813	30	8.1	7.6	7.9	729	714	14.9	180	44	17
JUL 12...	1220	1028	9813	26	7.3	7.4	7.9	745	773	23.4	180	45	16
SEP 07...	1330	1028	9813	16	9.0	7.7	7.8	978	1000	21.1	220	56	19

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)	Total nitrogen, water, unfltrd mg/L (00600)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recover-able, µg/L (01105)	Copper, water, unfltrd recover-able, µg/L (01042)
NOV 09...	115	58	450	10	.120	6.2	<.200	7.2	1.15	1.4	4.9	<200	20
JAN 12...	76	29	200	18	.030	2.5	<.040	3.0	.34	.37	4.3	810	10
MAR 29...	73	23	280	18	.060	1.9	<.040	2.5	.21	.31	--	1050	<10
MAY 24...	113	67	480	4	.130	6.6	.090	7.5	1.19	1.4	--	<200	20
JUL 12...	112	82	530	<2	.090	7.1	<.040	7.8	1.46	1.7	--	<200	10
SEP 07...	113	120	620	18	.050	11	<.200	11	2.41	2.5	--	<200	20

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)
NOV 09...	100	<1.0	20	<50	28
JAN 12...	880	1.9	50	<50	19
MAR 29...	1300	2.6	70	<50	19
MAY 24...	230	1.2	60	<50	25
JUL 12...	200	<1.0	40	<50	31
SEP 07...	150	<1.0	30	<50	41

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 μ m. Samples represent counts per 100 animal (approximate) subsamples.

Date	08/11/04
Benthic macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	20
Mollusca	
Bivalvia (CLAMS)	
Veneroida	
Sphaeriidae	
<i>Sphaerium</i>	1
Annelida	
Hirudinea (LEECHES)	
Arhynchobdellida	
Erpobdellidae	
<i>Erpobdella</i>	2
Oligochaeta (AQUATIC EARTHWORMS)	
Tubificida	
Tubificidae	6
Arthropoda	
Crustacea	
Amphipoda (SCUDS)	
Crangonyctidae	
<i>Crangonyx</i>	1
<i>Stygonectes</i>	1
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<i>Baetis</i>	4
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<i>Cheumatopsyche</i>	6
<i>Hydropsyche</i>	30
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Stenelmis</i>	26
Psephenidae (WATER PENNIES)	
<i>Psephenus</i>	1
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	15
Empididae (DANCE FLIES)	
<i>Hemerodromia</i>	1
Tipulidae (CRANE FLIES)	
<i>Antocha</i>	3
Total Organisms	
	117
Total Taxa	
	14