



2005 Water Year
SCHUYLKILL RIVER BASIN
01474000 Wissahickon Creek at Mouth, Philadelphia, PA

Latitude: 40° 00' 55"

Longitude: 075° 12' 26"

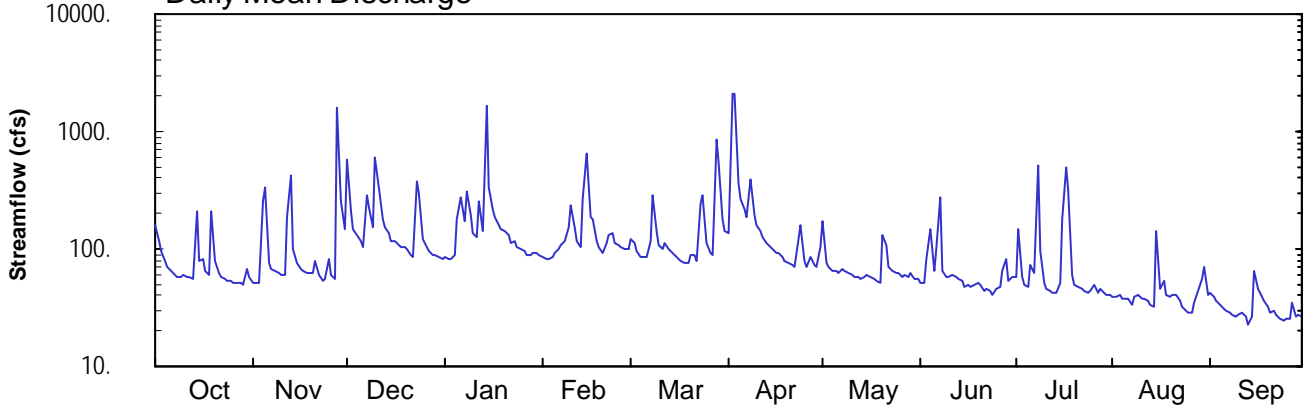
Hydrologic Unit Code: 02040203

Philadelphia County

Datum: 26.41 feet

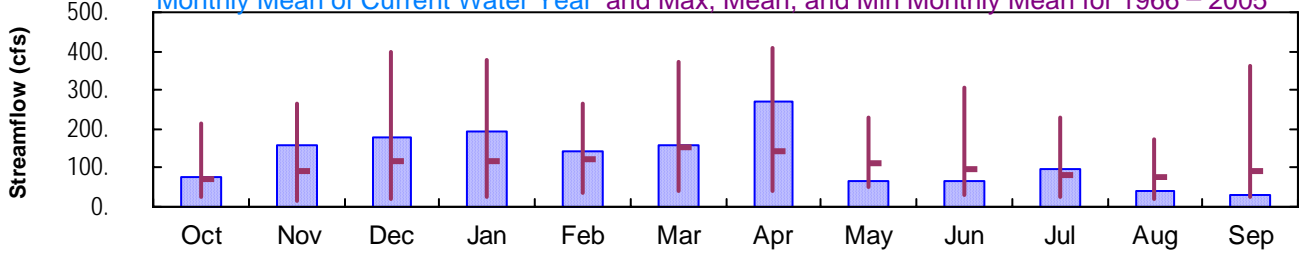
Drainage Area: 64. mi²

Daily Mean Discharge

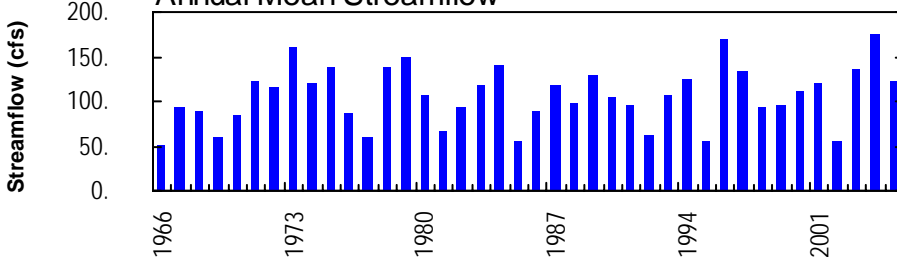


Monthly Statistics

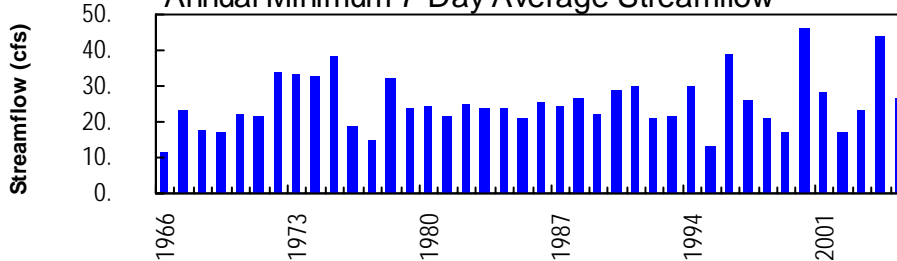
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1966 – 2005



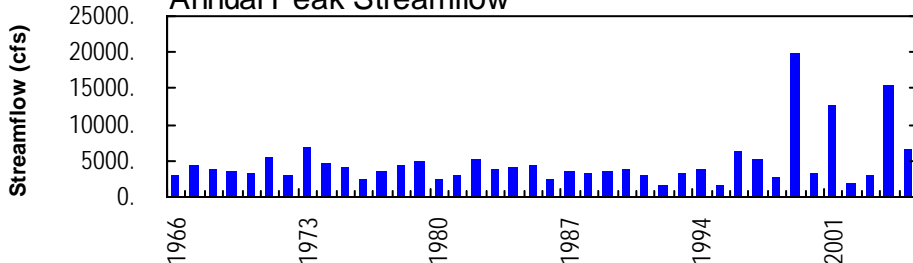
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



01474000–Wissahickon Creek at Mouth, Philadelphia

SCHUYLKILL RIVER BASIN

01474000 WISSAHICKON CREEK AT MOUTH, PHILADELPHIA, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 40°00'55", long 75°12'26", Philadelphia County, Hydrologic Unit 02040203, on left bank 100 ft upstream from dam at Ridge Avenue, 750 ft upstream from mouth, and 1,000 ft northwest of Gustine Lake in Philadelphia.

DRAINAGE AREA.--64.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1897 to September 1903, January 1905 to July 1906, October 1965 to current year. Prior to October 1965, records furnished by Department of Public Works, City of Philadelphia. Records for 1971-74 published in WDR PA-81-1. Prior to October 1965, published as "near Philadelphia".

REVISED RECORDS.--WSP 1302: 1905: WDR PA-89-1: 1988.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 26.41 ft above National Geodetic Vertical Datum of 1929. Prior to October 1965, water-stage recorder at about same site and datum.

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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 28	1545	3,650	5.97	Apr. 3	0045	*6,620	*7.79
Jan. 14	1530	3,660	5.98				

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	161	51	572	85	85	120	135	175	52	58	40	42
2	119	52	213	81	84	112	2100	77	51	147	40	38
3	97	52	146	83	83	96	2140	70	82	59	40	37
4	81	257	129	88	86	87	366	66	150	50	38	33
5	70	333	118	179	92	85	261	66	65	48	38	31
6	66	76	106	277	99	86	217	63	100	74	37	30
7	62	67	283	174	107	116	184	67	276	63	34	28
8	59	64	231	309	118	281	386	66	66	505	39	28
9	59	62	155	192	152	144	191	63	58	98	40	27
10	60	61	599	135	241	108	157	59	58	52	38	27
11	58	61	329	128	153	101	141	57	60	46	37	28
12	57	187	179	258	116	113	124	57	57	44	36	26
13	57	421	152	143	104	99	113	56	55	43	34	23
14	208	100	135	1650	261	92	105	57	53	42	33	26
15	80	75	119	331	646	87	100	61	48	51	141	64
16	83	68	116	220	190	83	94	57	49	181	46	46
17	66	65	113	188	178	79	92	56	48	492	54	40
18	60	63	106	160	119	75	84	54	50	321	41	37
19	207	61	105	147	103	78	78	52	51	61	39	32
20	79	62	99	142	93	89	76	130	50	50	41	29
21	63	79	88	129	112	89	72	106	44	47	41	30
22	58	60	84	112	131	78	71	71	46	45	37	28
23	55	53	381	e115	134	243	121	65	44	44	33	25
24	54	55	297	e105	113	284	159	63	40	42	30	25
25	53	81	122	e100	110	115	79	61	45	45	29	25
26	52	59	103	e96	105	94	70	59	48	49	29	26
27	51	55	97	e88	99	90	86	60	66	42	34	35
28	51	1590	89	90	101	859	74	58	81	46	44	27
29	50	252	88	91	---	565	69	62	53	43	56	28
30	67	148	86	94	---	181	102	57	59	41	72	27
31	57	---	83	90	---	142	---	56	---	41	41	---
TOTAL	2400	4670	5523	6080	4015	4871	8047	2127	2005	2970	1332	948
MEAN	77.4	156	178	196	143	157	268	68.6	66.8	95.8	43.0	31.6
MAX	208	1590	599	1650	646	859	2140	175	276	505	141	64
MIN	50	51	83	81	83	75	69	52	40	41	29	23
CFSM	1.21	2.43	2.78	3.06	2.24	2.46	4.19	1.07	1.04	1.50	0.67	0.49
IN.	1.40	2.71	3.21	3.53	2.33	2.83	4.68	1.24	1.17	1.73	0.77	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

MEAN	70.8	90.0	119	119	124	153	142	113	95.9	83.4	76.6	89.4
MAX	216	265	398	378	266	370	410	229	306	230	174	365
(WY)	1997	1973	1997	1979	1979	1994	1983	1984	2001	1975	2004	1999
MIN	23.1	17.7	22.7	24.3	37.0	40.7	41.3	50.8	32.0	23.7	19.8	23.0
(WY)	1966	1966	1966	1981	1969	1985	1985	1986	1986	1999	1966	1968

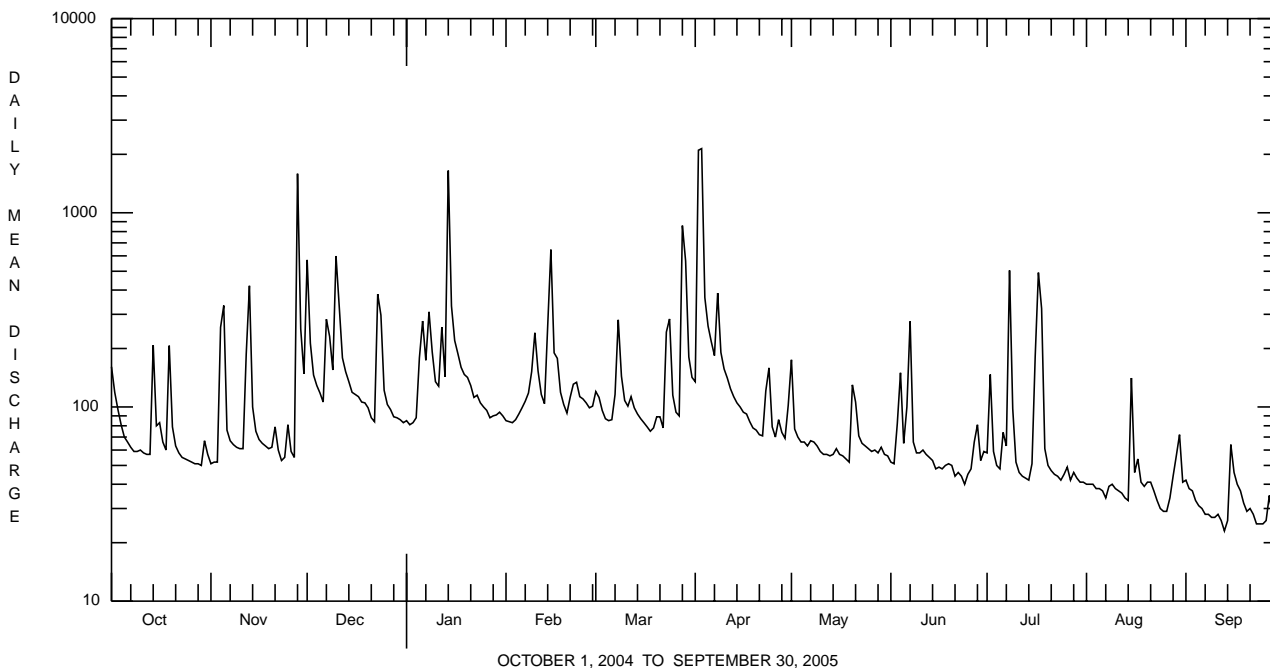
e Estimated.

SCHUYLKILL RIVER BASIN

01474000 WISSAHICKON CREEK AT MOUTH, PHILADELPHIA, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1966 - 2005	
ANNUAL TOTAL	56743		44988			
ANNUAL MEAN	155		123		106	
HIGHEST ANNUAL MEAN					176	2004
LOWEST ANNUAL MEAN					50.6	1966
HIGHEST DAILY MEAN	4920	Sep 29	2140	Apr 3	5560	Sep 16 1999
LOWEST DAILY MEAN	41	Jul 6,11	23	Sep 13	8.8	Aug 30 1995
ANNUAL SEVEN-DAY MINIMUM	44	Jul 5	26	Sep 8	12	Aug 27 1966
MAXIMUM PEAK FLOW			a6620	Apr 3	a19800	Sep 16 1999
MAXIMUM PEAK STAGE			7.79	Apr 3	b11.50	Sep 16 1999
INSTANTANEOUS LOW FLOW			21	Sep 13	2.0	Jul 18 1905c
ANNUAL RUNOFF (CFSM)	2.42		1.93		1.66	
ANNUAL RUNOFF (INCHES)	32.98		26.15		22.54	
10 PERCENT EXCEEDS	261		215		183	
50 PERCENT EXCEEDS	78		75		60	
90 PERCENT EXCEEDS	51		37		28	

- a From rating curve extended above 4,000 ft³/s on basis of slope-area measurement at peak flow.
- b From floodmark. Maximum recorded 10.77 ft.
- c Also July 19. Minimum observed is outside computed statistical period.



SCHUYLKILL RIVER BASIN

01474000 WISSAHICKON CREEK AT MOUTH, PHILADELPHIA, 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 2004 08...	1100	1028	9813	65	11.6	7.7	8.0	582	578	10	190	43	20
JAN 2005 06...	1150	1028	9813	379	12.9	7.9	8.0	632	644	7.1	160	38	16
MAR 07...	1150	1028	9813	96	16.9	8.7	8.6	850	865	5.9	210	49	22
MAY 25...	1210	1028	9813	65	10.4	8.1	8.1	666	652	13.7	210	47	23
JUL 21...	1130	1028	9813	48	8.3	8.0	8.2	565	588	24.4	170	38	17
SEP 21...	1150	1028	9813	33	9.5	8.0	8.3	783	777	20.4	230	50	26

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 2004 08...	123	40	420	6	<.020	4.4	<.200	4.9	.52	.59	4.1	<200	<10
JAN 2005 06...	87	36	350	16	.050	3.3	<.200	3.8	.37	.42	3.6	500	<10
MAR 07...	115	42	510	<2	<.020	4.0	<.200	4.7	.38	.42	3.6	<200	<10
MAY 25...	134	45	440	4	.050	4.9	<.040	5.4	.68	.79	--	<200	<10
JUL 21...	123	39	400	10	.030	4.2	<.200	4.2	.55	.61	--	<200	<10
SEP 21...	151	64	540	<2	.030	5.7	<.200	5.8	.85	.95	--	<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)
NOV 2004 08...	90	<1.0	10	<50	10
JAN 2005 06...	670	2.0	40	<50	19
MAR 07...	100	<1.0	30	<50	<10
MAY 25...	110	<1.0	10	<50	<10
JUL 21...	130	<1.0	20	<50	<10
SEP 21...	140	1.2	30	<50	14

SCHUYLKILL RIVER BASIN

01474000 WISSAHICKON CREEK AT MOUTH, PHILADELPHIA, 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	09/15/04
Benthic macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	3
Nematoda (NEMATODES)	2
Nemertea (PROBOSCIS WORMS)	
Enopla	
Hoploneurtea	
Tetrastemmatidae	
<i>Prostoma</i>	4
Annelida	
Hirudinea (LEECHES)	
Arhynchobdellida	
Erpobdellidae	
<i>Erpobdella</i>	1
Oligochaeta (AQUATIC EARTHWORMS)	
Tubificida	
Naididae	1
Arthropoda	
Crustacea	
Amphipoda (SCUDS)	
Gammaridae	
<i>Gammarus</i>	1
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<i>Baetis</i>	47
Heptageniidae	
<i>Stenonema</i>	1
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<i>Cheumatopsyche</i>	3
<i>Hydropsyche</i>	12
Hydroptilidae	
<i>Leucotrichia</i>	1
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Stenelmis</i>	2
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	25
Total Organisms	
	103
Total Taxa	
	13