

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.

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.--No estimated daily discharges. Records 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 1,300 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
May 18	1115	2,460	8.71	June 7	0030	*2,950	*9.48

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	16	17	14	50	18	60	53	49	24	13	47
2	17	16	16	14	44	19	40	82	31	23	13	40
3	15	18	16	14	33	300	38	61	31	22	43	18
4	14	15	16	15	31	51	37	35	23	21	15	17
5	14	15	16	14	27	33	33	30	21	20	18	15
6	19	16	16	54	25	29	31	27	296	19	15	14
7	13	16	16	88	28	26	30	24	419	18	13	13
8	14	14	35	33	25	23	30	23	53	20	13	12
9	13	15	87	21	22	23	28	112	41	23	12	13
10	13	15	24	21	23	35	31	47	37	75	12	12
11	13	15	19	116	32	23	26	27	102	22	11	12
12	12	15	17	54	23	22	29	53	70	20	11	11
13	12	18	20	27	22	34	32	187	51	19	11	12
14	12	16	42	20	20	31	30	171	158	18	11	14
15	31	16	33	17	20	25	36	53	73	19	11	17
16	15	16	20	16	20	24	26	38	51	17	12	29
17	15	16	20	16	19	24	24	32	43	16	12	15
18	15	16	59	15	18	150	23	707	38	16	11	13
19	15	16	26	15	17	65	39	102	62	25	11	12
20	15	19	20	17	16	390	30	65	39	26	14	12
21	14	17	19	16	26	130	22	52	31	16	11	12
22	14	16	17	17	18	65	45	44	29	15	11	12
23	15	14	17	19	18	52	26	40	27	19	12	12
24	15	14	82	223	18	44	21	37	28	27	20	12
25	16	46	27	72	19	38	30	32	26	17	19	11
26	17	44	21	39	18	39	30	34	28	15	13	31
27	17	20	19	31	18	149	20	33	62	16	12	195
28	16	17	19	28	17	55	175	30	109	16	14	115
29	17	17	18	25	---	44	69	26	31	15	152	19
30	17	17	16	27	---	42	42	25	25	14	24	14
31	16	---	15	68	---	46	---	41	---	13	16	---
TOTAL	484	541	805	1166	667	2049	1133	2323	2084	646	586	781
MEAN	15.6	18.0	26.0	37.6	23.8	66.1	37.8	74.9	69.5	20.8	18.9	26.0
MAX	31	46	87	223	50	390	175	707	419	75	152	195
MIN	12	14	15	14	16	18	20	23	21	13	11	11
CFSM	0.38	0.44	0.64	0.92	0.58	1.62	0.93	1.84	1.70	0.51	0.46	0.64
IN.	0.44	0.49	0.73	1.06	0.61	1.87	1.03	2.12	1.90	0.59	0.53	0.71

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

MEAN	21.2	28.9	43.2	58.4	69.8	94.2	60.1	50.8	54.9	26.5	30.7	27.6
MAX	55.7	58.4	111	108	119	140	115	77.5	219	51.2	107	84.2
(WY)	1967	1963	1968	1964	1966	1967	1962	1968	2001	1967	1967	2000
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

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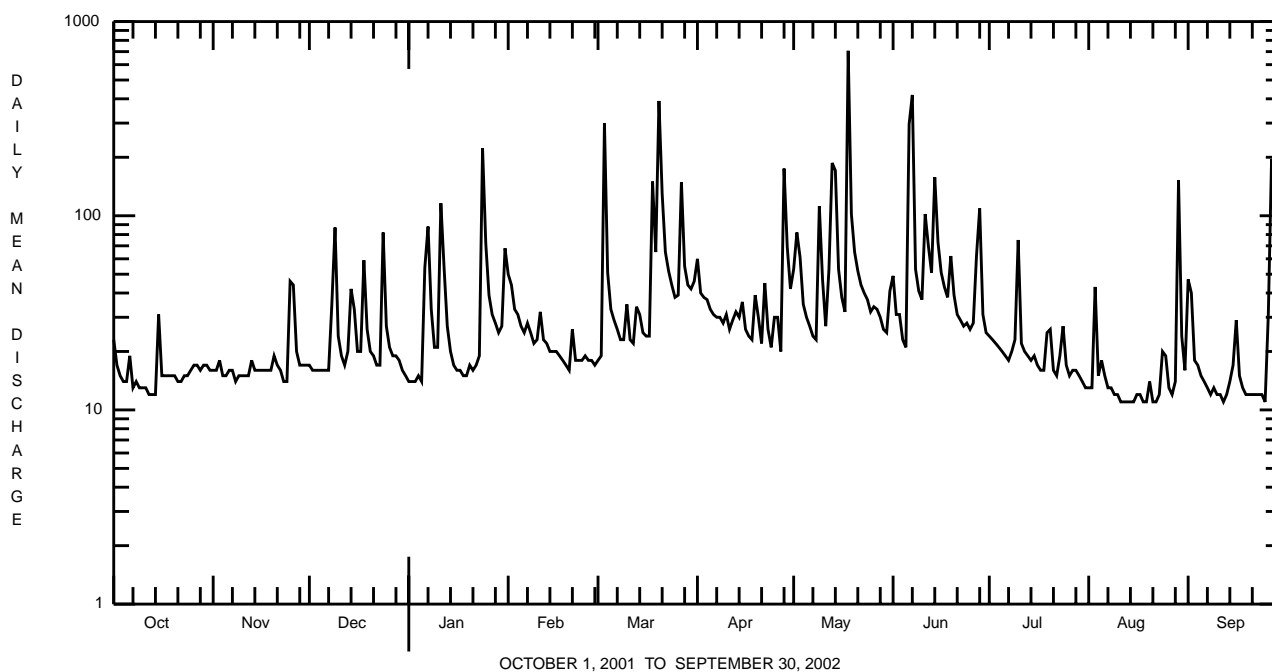
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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		FOR PERIOD OF DAILY RECORD	
ANNUAL TOTAL	25218		13265			
ANNUAL MEAN	69.1		36.3		47.4	
HIGHEST ANNUAL MEAN					76.1	
LOWEST ANNUAL MEAN					31.6	
HIGHEST DAILY MEAN	2490	Jun 17	707	May 18	2490	Jun 17 2001
LOWEST DAILY MEAN	12	Oct 12-14	11	Aug 11-15a	4.6	Jul 5 1963
ANNUAL SEVEN-DAY MINIMUM	13	Oct 8	11	Aug 9	5.6	Jul 1 1963
MAXIMUM PEAK FLOW			b2950	Jun 7	b11000	Jun 17 2001
MAXIMUM PEAK STAGE			9.48	Jun 7	c16.30	Jun 17 2001
INSTANTANEOUS LOW FLOW			8.1	Aug 19,22	2.9	Sep 2 1963
ANNUAL RUNOFF (CFSM)	1.69		0.89		1.16	
ANNUAL RUNOFF (INCHES)	22.99		12.09		15.80	
10 PERCENT EXCEEDS	116		61		88	
50 PERCENT EXCEEDS	30		20		24	
90 PERCENT EXCEEDS	15		13		9.0	

a Also Aug. 18, 19, 21, 22, Sept. 12, 25

b From rating curve extended above 1,860 ft³/s on basis of slope-area measurement at gage height 16.30 ft.

c From floodmark.



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WATER-QUALITY RECORDS

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

REMARKS.--Other data for the Water-Quality Network can be found on pages 410-425.

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 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
APR 2002 09...	1450	9813	27	30	17.0	8.8	769	15.2	200	47.6	18.9	102	66.7
JUN 27...	1320	9813	28	30	8.2	7.8	840	25.6	190	47.5	17.6	108	96.7
AUG 27...	1320	9813	13	30	8.1	7.7	993	22.4	210	52.7	18.4	100	125

Date	RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)
APR 2002 09...	484	8	<.020	8.63	<.040	9.9	1.68	1.68	6.7	20	170	<1.0	20
JUN 27...	550	8	.020	8.79	.070	9.4	1.89	1.67	5.2	20	160	<1.0	20
AUG 27...	706	6	.090	13.8	.260	15	2.51	3.05	9.1	30	190	1.5	40

Date	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092)
APR 2002 09...	<50	20
JUN 27...	<50	20
AUG 27...	<50	60