

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 good 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 2,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
June 7	0415	*2,040	*4.81	No other peak greater than base discharge.			

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	51	28	25	39	57	35	63	72	66	42	21	62
2	39	28	28	28	54	42	46	114	51	40	20	82
3	33	32	26	25	48	415	47	97	46	40	43	35
4	31	42	26	28	46	70	48	58	45	42	35	27
5	29	32	27	29	45	46	48	53	55	39	28	26
6	37	27	27	63	41	39	47	50	141	37	30	24
7	40	28	27	127	43	35	47	50	668	38	23	26
8	28	27	44	53	43	31	46	49	68	39	20	28
9	29	27	124	45	41	27	45	132	55	37	19	26
10	30	32	50	43	39	43	48	77	50	110	19	22
11	28	34	39	102	49	31	48	79	45	40	19	21
12	27	32	31	84	40	26	52	e93	133	34	18	20
13	31	28	32	52	38	32	55	e309	60	35	17	19
14	33	30	44	48	34	46	54	286	168	38	17	21
15	60	28	54	40	33	31	56	73	102	38	16	35
16	38	30	40	39	34	27	49	61	58	30	16	46
17	29	29	34	37	35	28	49	57	53	27	18	33
18	28	29	65	36	34	141	49	847	50	24	18	24
19	27	32	50	36	29	79	48	156	119	30	17	22
20	30	28	38	43	32	416	64	87	56	49	16	20
21	31	34	30	40	44	185	52	72	46	34	19	23
22	31	30	29	43	39	67	70	65	45	27	18	23
23	25	32	30	42	33	59	55	61	45	25	16	23
24	25	32	93	261	33	55	48	58	57	41	73	19
25	29	67	52	101	32	53	52	56	45	33	52	20
26	25	88	40	53	35	58	58	55	41	26	22	42
27	29	38	32	49	37	191	50	58	73	28	18	310
28	35	29	32	47	35	66	226	55	173	34	17	172
29	33	27	33	41	---	55	104	51	49	33	280	45
30	26	28	29	41	---	54	59	50	44	25	48	36
31	26	---	27	68	---	62	---	49	---	23	30	---
TOTAL	993	1008	1258	1783	1103	2545	1783	3430	2707	1138	1023	1332
MEAN	32.0	33.6	40.6	57.5	39.4	82.1	59.4	111	90.2	36.7	33.0	44.4
MAX	60	88	124	261	57	416	226	847	668	110	280	310
MIN	25	27	25	25	29	26	45	49	41	23	16	19
CFSM	0.50	0.53	0.63	0.90	0.62	1.28	0.93	1.73	1.41	0.57	0.52	0.69
IN.	0.58	0.59	0.73	1.04	0.64	1.48	1.04	1.99	1.57	0.66	0.59	0.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

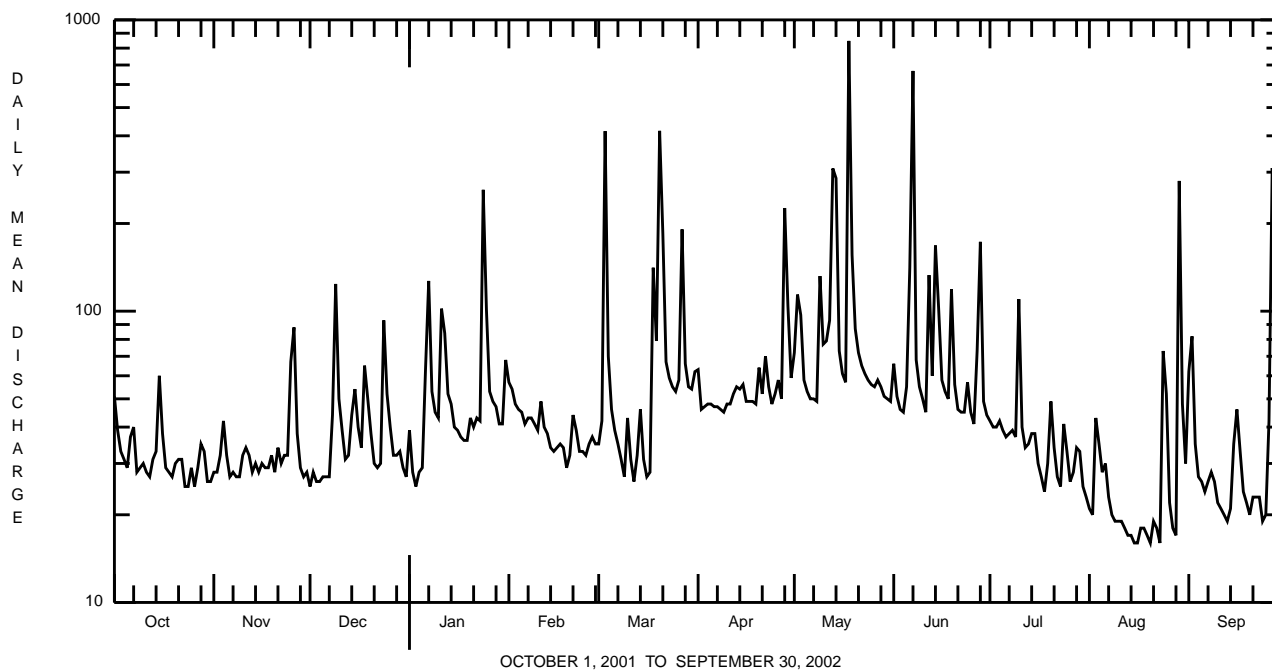
MEAN	68.1	85.1	112	118	121	152	137	116	92.7	79.7	73.5	82.9
MAX	216	265	398	378	266	370	410	229	306	230	171	365
(WY)	1997	1973	1997	1979	1979	1994	1983	1984	2001	1975	1973	1999
MIN	23.1	17.7	22.7	24.3	37.0	40.7	41.3	50.8	32.0	23.7	19.8	23.0
(WY)	1966	1966	1966	1981	1969	1985	1985	1986	1986	1999	1966	1968

e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1966 - 2002	
ANNUAL TOTAL	39298		20103			
ANNUAL MEAN	108		55.1		103	
HIGHEST ANNUAL MEAN					169	1996
LOWEST ANNUAL MEAN					50.6	1966
HIGHEST DAILY MEAN	4550	Jun 17	847	May 18	5560	Sep 16 1999
LOWEST DAILY MEAN	25	Oct 23,24,28 ^a	16	Aug 15,16 ^b	8.8	Aug 30 1995
ANNUAL SEVEN-DAY MINIMUM	27	Dec 1	17	Aug 14	12	Aug 27 1966
MAXIMUM PEAK FLOW			2040	Jun 7	^c 19800	Sep 16 1999
MAXIMUM PEAK STAGE			4.81	Jun 7	^d 11.50	Sep 16 1999
INSTANTANEOUS LOW FLOW			16	Aug 12-20 ^f	2.0	Jul 18 1905
ANNUAL RUNOFF (CFSM)	1.68		0.86		1.61	
ANNUAL RUNOFF (INCHES)	22.84		11.68		21.87	
10 PERCENT EXCEEDS	174		80		176	
50 PERCENT EXCEEDS	63		39		59	
90 PERCENT EXCEEDS	28		24		28	

^a Also Dec. 1.^b Also Aug. 20, 23.^c From rating curve extended above 4,000 ft³/s on basis of slope-area measurement at peak flow.^d From floodmark. Maximum recorded 10.77 ft.^f Also Aug. 23, 28.

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

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 08...	1530	9813	46	30	13.5	8.3	707	9.2	220	47.7	24.3	130	54.4
JUN 13...	1510	9813	57	30	8.9	7.7	393	22.0	120	26.6	11.7	68	36.7
AUG 15...	1310	9813	16	30	8.2	8.0	758	26.0	210	46.3	22.9	128	66.5

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 08...	474	2	<.020	5.91	<.040	6.5	.72	.750	3.6	<10	120	<1.0	20
JUN 13...	286	4	.110	2.83	<.040	3.7	.52	.510	5.6	70	350	<1.0	30
AUG 15...	474	10	.140	5.57	<.200	5.6	.91	1.09	3.7	<10	220	1.1	40

Date	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092)
APR 2002 08...	<50	10
JUN 13...	<50	30
AUG 15...	<50	20