

SCHUYLKILL RIVER BASIN

01474000 WISSAHICKON CREEK AT MOUTH, PHILADELPHIA, PA

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.

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 sea level. Prior to October 1965, water-stage recorder at about same site and datum.

REMARKS.--No estimated daily discharges. Records good. 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)
Mar. 22	0630	3,070	5.66	Sept. 16	2130	*19,800	*11.50

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	26	28	34	52	148	72	56	45	26	18	29
2	19	25	27	30	239	76	75	57	41	37	17	26
3	18	24	27	742	125	68	69	57	43	78	17	26
4	38	24	27	120	70	186	68	57	42	32	17	27
5	31	25	27	53	63	75	65	56	37	26	17	34
6	22	24	27	43	57	82	61	55	35	24	17	36
7	21	25	27	30	57	110	62	54	33	23	17	252
8	196	25	34	40	79	67	60	68	37	22	17	66
9	147	25	47	133	64	62	93	83	34	21	20	57
10	135	24	27	113	56	62	279	54	32	21	19	538
11	50	53	25	53	52	59	128	52	32	21	19	72
12	38	42	30	46	58	57	205	50	32	21	18	52
13	33	28	34	48	124	56	92	49	37	21	18	46
14	59	31	30	59	63	60	78	52	42	21	616	42
15	37	31	26	529	53	97	74	50	50	21	85	46
16	28	30	27	143	52	114	90	48	37	21	37	5560
17	30	29	27	95	54	142	120	47	34	20	26	2530
18	30	30	29	641	406	136	76	45	36	21	25	191
19	28	30	28	274	138	79	70	130	32	20	22	123
20	26	30	28	83	78	70	70	81	31	20	81	95
21	26	33	27	67	67	239	68	51	38	22	86	191
22	25	30	29	61	60	1510	70	48	40	22	34	193
23	25	29	30	67	52	210	75	57	33	22	26	105
24	25	28	24	471	55	145	116	336	32	21	23	80
25	26	28	33	184	54	120	70	138	28	20	23	71
26	28	98	33	90	53	99	65	58	29	20	598	65
27	25	54	28	70	47	91	62	52	27	19	606	60
28	25	33	28	62	75	88	60	50	26	19	63	60
29	24	29	33	60	---	80	60	39	28	18	49	53
30	24	28	37	55	---	74	58	49	26	17	38	211
31	26	---	37	53	---	71	---	47	---	18	31	---
TOTAL	1286	971	921	4549	2403	4533	2611	2126	1049	735	2700	10937
MEAN	41.5	32.4	29.7	147	85.8	146	87.0	68.6	35.0	23.7	87.1	365
MAX	196	98	47	742	406	1510	279	336	50	78	616	5560
MIN	18	24	24	30	47	56	58	39	26	17	17	26
CFSM	.65	.51	.46	2.29	1.34	2.28	1.36	1.07	.55	.37	1.36	5.70
IN.	.75	.56	.54	2.64	1.40	2.63	1.52	1.24	.61	.43	1.57	6.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

MEAN	68.7	87.3	114	121	122	151	140	116	86.8	81.0	74.1	83.6
MAX	216	265	398	378	266	370	410	229	244	230	171	365
(WY)	1997	1973	1997	1979	1979	1994	1983	1984	1989	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

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1966 - 1999	
ANNUAL TOTAL	32638		34821		104	
ANNUAL MEAN	89.4		95.4		169	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					50.6	
HIGHEST DAILY MEAN	947	Apr 2	5560	Sep 16	5560	Sep 16 1999
LOWEST DAILY MEAN	18	Sep 29,30	17	Jul 30 ^a	8.8	Aug 30 1995
ANNUAL SEVEN-DAY MINIMUM	20	Sep 27	17	Aug 2	12	Aug 27 1966
INSTANTANEOUS PEAK FLOW			b 19800	Sep 16	b 19800	Sep 16 1999
INSTANTANEOUS PEAK STAGE			c 11.50	Sep 16	c 11.50	Sep 16 1999
INSTANTANEOUS LOW FLOW			17	Jul 30	2.0	Jul 18 1905 ^d
ANNUAL RUNOFF (CFSM)	1.40		1.49		1.62	
ANNUAL RUNOFF (INCHES)	18.97		20.24		22.02	
10 PERCENT EXCEEDS	160		134		177	
50 PERCENT EXCEEDS	51		47		60	
90 PERCENT EXCEEDS	25		21		28	

- a** Also Aug. 2-8.
- b** From rating curve extended above 4,000 ft³/s on basis of slope-area measurement at peak flow.
- c** From floodmark. Maximum recorded 10.77 ft.
- d** Also July 19. Minimum observed is outside computed statistical period.

