

POQUESSING CREEK BASIN

01465798 POQUESSING CREEK AT GRANT AVENUE, PHILADELPHIA, PA

LOCATION.--Lat 40°03'25", long 74°59'08", Philadelphia County, Hydrologic Unit 02040202, on right bank 600 ft upstream from Interstate Highway 95, 3,000 ft upstream from mouth, and in northeast Philadelphia.

DRAINAGE AREA.--21.4 mi².

PERIOD OF RECORD.--July 1965 to current year. Records for 1971-74 published in WDR PA-81-1.

REVISED RECORD.--WDR PA-86-1: 1985.

GAGE.--Water-stage recorder, crest-stage gage, and concrete low-water control. Datum of gage is 2.68 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Flow occasionally affected by tide.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 22	0215	1,280	7.12	Aug. 26	0715	2,080	8.42
May 24	1530	2,280	8.71	Sept. 16	1945	*5,290	*12.06
Aug. 14	0545	3,200	9.86				

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	2.8	5.0	2.4	2.3	5.5	56	12	8.1	6.6	21	.51	2.8
2	2.5	4.7	2.2	1.9	135	14	12	7.6	6.2	24	.28	2.9
3	2.8	4.3	2.0	262	22	20	9.5	8.9	5.9	21	.21	3.4
4	19	4.5	1.8	18	11	66	9.4	8.8	5.6	4.5	.28	3.4
5	7.7	4.3	1.9	6.4	8.6	11	8.9	7.9	5.2	3.2	.34	5.2
6	3.6	4.4	1.9	4.6	7.7	34	8.7	7.8	5.3	2.7	.33	13
7	2.8	4.3	1.9	4.2	7.3	37	8.6	7.5	5.2	2.2	.35	72
8	115	4.3	8.1	3.6	27	10	8.4	15	4.8	1.9	1.6	12
9	23	4.4	13	68	10	8.7	52	9.0	4.5	1.8	5.0	48
10	42	4.2	3.8	e15	e7.4	8.3	84	7.1	4.2	1.9	1.1	101
11	6.3	43	2.4	e6.0	6.8	7.6	65	6.7	4.4	1.5	.93	10
12	3.5	6.5	2.0	6.8	12	7.0	38	6.7	4.7	1.5	.95	5.7
13	4.0	3.1	2.5	7.9	28	6.7	14	9.0	4.6	1.8	.92	4.9
14	42	2.8	2.6	7.1	7.9	15	11	6.8	11	4.3	761	4.4
15	5.1	2.8	2.2	230	6.6	61	10	7.1	14	1.5	69	7.0
16	2.7	2.9	2.1	27	6.4	43	41	6.5	4.7	1.2	12	2490
17	2.2	3.2	2.4	15	6.4	23	22	6.3	5.0	1.1	7.9	155
18	1.9	3.5	2.6	e180	142	15	11	6.0	6.0	.98	4.3	29
19	1.8	3.4	2.0	36	19	10	9.9	57	4.3	.91	2.6	20
20	1.7	4.1	1.9	12	11	9.5	13	19	4.0	11	61	15
21	2.0	7.5	2.1	10	8.7	167	10	7.4	28	3.7	26	101
22	2.1	3.8	5.9	11	7.6	411	13	6.4	8.2	2.2	5.1	30
23	2.0	2.8	4.2	14	6.5	27	31	21	4.7	1.7	3.3	13
24	2.0	2.8	2.5	173	6.4	18	20	568	4.1	1.2	2.6	10
25	2.3	3.0	2.7	26	6.3	15	9.9	44	3.7	.90	2.2	8.5
26	2.1	63	2.4	12	6.2	13	9.1	14	3.4	.69	386	7.7
27	2.1	7.4	2.2	9.2	5.9	12	8.7	10	3.2	.59	66	7.7
28	2.2	3.3	2.4	8.3	56	14	8.3	8.7	3.2	.70	11	7.1
29	2.6	2.7	8.4	7.2	---	11	10	8.2	3.3	.39	6.3	7.4
30	3.1	2.6	13	6.4	---	10	8.2	7.6	3.0	.48	3.7	85
31	3.9	---	3.5	5.9	---	9.9	---	7.0	---	.76	3.3	---
TOTAL	318.8	218.6	111.0	1196.8	591.2	1170.7	576.6	921.1	181.0	123.30	1446.10	3282.1
MEAN	10.3	7.29	3.58	38.6	21.1	37.8	19.2	29.7	6.03	3.98	46.6	109
MAX	115	63	13	262	142	411	84	568	28	24	761	2490
MIN	1.7	2.6	1.8	1.9	5.5	6.7	8.2	6.0	3.0	.39	.21	2.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1999, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
MEAN	21.6	26.9	33.9	36.1	34.2	39.6	37.1	34.2	29.5	38.3	31.4	28.3																								
MAX	59.9	112	124	136	105	98.0	104	74.2	84.7	112	130	109																								
(WY)	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999			
MIN	7.05	5.03	3.58	4.34	10.3	9.17	8.91	10.6	5.94	3.98	4.22	3.93																								
(WY)	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966

e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1965 - 1999	
ANNUAL TOTAL	8463.8		10137.30			
ANNUAL MEAN	23.2		27.8		32.7	
HIGHEST ANNUAL MEAN					52.3	1979
LOWEST ANNUAL MEAN					16.3	1995
HIGHEST DAILY MEAN	460	Jan 23	2490	Sep 16	2490	Sep 16 1999
LOWEST DAILY MEAN	1.7	Oct 20	.21	Aug 3	.21	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 18	.33	Aug 1	.33	Aug 1 1999
INSTANTANEOUS PEAK FLOW			a5290	Sep 16	a9400	Jul 28 1982
INSTANTANEOUS PEAK STAGE			12.06	Sep 16	15.35	Jul 28 1982
10 PERCENT EXCEEDS	58		42		61	
50 PERCENT EXCEEDS	10		6.6		12	
90 PERCENT EXCEEDS	2.3		1.9		4.3	

a From rating curve extended above 550 ft³/s on basis of slope-area measurement of peak flow.

