

## 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 mi<sup>2</sup>.

**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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
July 31	0300	2,220	8.63	Sept. 2	2145	1,560	7.62
Aug. 4	0145	1,360	7.26	Sept. 3	1700	*2,950	*9.57
Aug. 12	1600	1,410	7.36	Sept. 15	0445	2,420	8.90
Aug. 14	1345	1,630	7.73	Sept. 19	2245	1,690	7.83

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.6	7.3	7.8	e20	13	14	11	7.8	5.6	179	16
2	7.6	104	7.1	8.4	e11	13	13	15	7.4	5.9	102	147
3	6.7	40	7.0	8.0	e9.0	13	14	11	8.1	6.6	35	554
4	43	9.8	7.2	81	e8.5	13	36	11	6.7	13	300	68
5	132	7.7	6.9	66	e8.0	11	14	10	6.9	5.3	29	14
6	13	7.0	76	13	e7.5	11	13	10	37	4.0	11	10
7	8.4	6.6	23	11	e7.0	10	12	10	15	3.7	44	9.3
8	7.1	6.5	10	9.6	e6.8	11	12	9.5	7.7	3.6	19	8.8
9	6.8	6.9	8.5	9.2	e6.6	14	67	9.2	6.6	3.5	8.4	10
10	76	7.3	37	50	e10	10	20	21	6.3	23	7.3	8.4
11	17	7.1	19	20	e25	82	13	26	6.0	5.0	122	7.4
12	8.1	7.0	9.2	11	e20	77	13	9.3	66	3.5	240	7.3
13	6.9	6.7	34	10	e12	17	12	40	45	3.3	37	75
14	6.1	7.0	255	8.9	150	13	11	103	15	59	363	9.8
15	5.7	6.3	47	8.1	40	12	17	11	9.8	44	44	468
16	6.1	6.3	19	e8.0	22	39	148	8.9	9.0	8.7	16	18
17	7.3	6.6	13	e7.2	20	266	123	9.1	35	8.7	12	11
18	15	6.7	11	e7.0	47	26	55	8.3	116	5.3	14	9.3
19	6.3	6.7	10	e7.0	221	18	22	108	75	25	14	379
20	83	7.0	74	e6.8	39	15	19	72	8.7	13	9.2	164
21	16	12	43	e6.6	25	136	111	20	9.7	5.1	8.2	19
22	10	7.1	15	e6.6	19	329	60	13	99	18	8.0	13
23	45	6.4	12	e6.4	17	32	22	11	9.0	4.6	7.8	11
24	9.0	7.7	10	e6.4	17	22	17	86	6.8	3.9	7.6	13
25	6.9	40	9.2	e6.2	16	19	15	42	6.1	4.8	7.5	33
26	6.5	41	9.0	e6.2	15	17	15	11	5.7	140	8.1	317
27	6.3	120	8.8	e6.0	14	16	14	9.5	5.5	60	8.4	33
28	6.0	14	8.7	e6.0	22	126	13	9.0	16	8.3	21	17
29	5.7	9.0	8.5	e5.8	14	21	13	9.2	16	7.9	7.6	14
30	5.7	8.0	8.0	e7.0	---	17	12	8.5	7.4	141	8.5	12
31	5.7	---	8.0	e30	---	15	---	8.4	---	324	9.1	---
TOTAL	595.9	534.0	821.4	451.2	849.4	1434	940	740.9	676.2	967.3	1707.7	2476.3
MEAN	19.2	17.8	26.5	14.6	29.3	46.3	31.3	23.9	22.5	31.2	55.1	82.5
MAX	132	120	255	81	221	329	148	108	116	324	363	554
MIN	5.7	5.6	6.9	5.8	6.6	10	11	8.3	5.5	3.3	7.3	7.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, 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	2000	
MEAN	21.5	26.6	33.7	35.5	34.0	39.8	37.0	33.9	29.3	38.1	32.0	29.8																									
MAX	59.9	112	124	136	105	98.0	104	74.2	84.7	112	130	109																									
(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	2000	
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	1966

e Estimated.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000	
ANNUAL TOTAL	11440.20		12194.3		32.7	
ANNUAL MEAN	31.3		33.3		52.3	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					1995	
HIGHEST DAILY MEAN	2490	Sep 16	554	Sep 3	2490	Sep 16 1999
LOWEST DAILY MEAN	.21	Aug 3	3.3	Jul 13	.21	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	.33	Aug 1	5.7	Jul 3	.33	Aug 1 1999
INSTANTANEOUS PEAK FLOW			a2950	Sep 3	a9400	Jul 28 1982
INSTANTANEOUS PEAK STAGE			9.57	Sep 3	15.35	Jul 28 1982
10 PERCENT EXCEEDS	54		78		61	
50 PERCENT EXCEEDS	8.1		11		12	
90 PERCENT EXCEEDS	2.3		6.3		4.4	

a From rating curve extended above 550 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

