

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 National Geodetic Vertical Datum of 1929.

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)
May 18	1045	1,500	7.51	June 24	2015	*1,690	*7.82
June 6	2345	1,360	7.26				

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	22	e0.60	2.8	3.2	19	3.3	43	17	11	5.5	1.8	95
2	5.5	e0.60	2.7	3.2	11	5.5	8.4	44	4.6	5.1	35	120
3	2.6	e2.0	2.7	3.4	5.6	137	6.7	17	3.9	5.2	160	5.6
4	1.8	e2.5	2.7	3.3	5.0	9.0	6.1	6.6	3.7	4.5	5.3	2.9
5	1.4	e1.8	4.1	3.3	4.3	5.6	5.9	5.8	9.4	4.2	16	1.8
6	18	e1.7	2.6	84	4.0	4.8	5.6	5.4	114	3.7	8.3	1.5
7	4.0	e1.7	3.0	44	7.4	4.4	5.2	5.2	163	3.6	2.1	1.1
8	1.4	e3.0	36	9.9	6.2	3.9	4.9	4.9	13	3.5	1.3	1.0
9	1.2	e2.5	63	7.8	4.2	3.9	5.0	51	9.4	9.2	1.1	0.95
10	1.2	e2.3	6.3	7.3	5.5	29	5.7	9.1	5.6	71	1.2	0.84
11	1.3	e2.2	5.1	39	28	5.0	4.8	5.3	9.7	5.6	0.91	0.97
12	1.3	e2.1	4.1	11	5.5	3.9	12	33	21	4.0	0.76	1.7
13	1.4	e2.0	5.4	5.9	4.3	11	9.1	99	11	3.7	0.74	2.0
14	1.8	e1.9	17	5.1	4.0	7.1	6.0	29	99	4.4	0.66	19
15	30	e1.9	9.1	4.8	4.0	4.3	5.1	7.6	17	4.2	0.57	6.4
16	3.1	e2.0	4.1	4.6	4.1	3.9	4.7	5.8	8.3	3.4	0.58	9.2
17	1.5	1.7	3.9	4.4	4.0	4.9	4.5	5.4	8.6	3.0	0.53	2.2
18	e1.3	1.8	52	4.4	3.8	102	4.2	436	33	2.8	0.43	1.1
19	e1.2	2.1	7.2	4.5	3.9	15	20	25	49	51	0.37	0.83
20	e1.2	5.0	4.3	7.3	3.9	201	15	11	7.8	31	23	0.74
21	e1.0	5.5	4.0	8.6	4.8	32	5.1	7.9	5.0	4.7	1.6	0.69
22	e1.0	2.3	3.7	11	4.3	12	25	6.9	4.4	3.8	0.68	0.70
23	e1.0	1.9	3.7	12	3.8	7.8	7.4	6.4	3.8	2.9	0.98	0.72
24	e1.0	1.9	82	136	3.7	6.6	4.7	6.1	275	3.4	8.7	0.71
25	e1.0	32	7.2	19	3.7	5.8	30	5.7	41	3.2	5.4	0.67
26	e0.90	28	4.6	8.2	3.7	15	12	6.0	11	2.6	1.2	46
27	e0.80	4.5	4.0	6.4	3.7	99	5.2	5.2	74	2.4	0.74	140
28	e0.80	3.3	3.7	5.7	3.4	11	140	22	73	2.5	0.60	80
29	e0.70	3.1	3.7	5.0	---	7.6	38	10	8.7	3.7	90	4.6
30	e0.60	2.9	3.5	6.7	---	7.0	13	5.1	6.3	3.7	5.2	2.4
31	e0.60	---	3.4	35	---	22	---	4.6	---	2.0	2.1	---
TOTAL	112.60	126.80	361.6	514.0	168.8	790.3	462.3	909.0	1104.2	263.5	377.85	551.32
MEAN	3.63	4.23	11.7	16.6	6.03	25.5	15.4	29.3	36.8	8.50	12.2	18.4
MAX	30	32	82	136	28	201	140	436	275	71	160	140
MIN	0.60	0.60	2.6	3.2	3.4	3.3	4.2	4.6	3.7	2.0	0.37	0.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	20.8	25.8	32.8	34.8	33.3	40.1	36.0	33.6	30.1	36.5	31.3	28.9
MAX	59.9	112	124	136	105	98.0	104	74.2	84.7	112	130	109
(WY)	1997	1973	1997	1979	1979	1994	1983	1989	1989	1989	1971	1999
MIN	3.63	4.23	3.58	4.34	6.03	9.17	8.91	10.6	5.94	3.98	4.22	3.93
(WY)	2002	2002	1999	1981	2002	1985	1985	1977	1966	1999	1995	1970

e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1965 - 2002	
ANNUAL TOTAL	8750.30		5742.27			
ANNUAL MEAN	24.0		15.7		32.1	
HIGHEST ANNUAL MEAN					52.3	1979
LOWEST ANNUAL MEAN					15.7	2002
HIGHEST DAILY MEAN	621	Mar 30	436	May 18	2490	Sep 16 1999
LOWEST DAILY MEAN	e0.60	Oct 30 ^a	0.37	Aug 19	0.21	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	0.67	Oct 27 ^b	0.55	Aug 13	0.33	Aug 1 1999
MAXIMUM PEAK FLOW			c1690	Jun 24	c9400	Jul 28 1982
MAXIMUM PEAK STAGE			7.82	Jun 24	15.35	Jul 28 1982
10 PERCENT EXCEEDS	48		35		60	
50 PERCENT EXCEEDS	9.2		4.8		12	
90 PERCENT EXCEEDS	2.0		1.0		4.2	

a Also Oct. 31, Nov. 1, 2.

b Computed using estimated daily discharges.

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

e Estimated.

