

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. 21	1915	1,490	7.49	June 16	1930	1,210	6.98
Mar. 30	0930	*1,850	*8.08	Aug. 4	2015	1,590	7.67
June 1	2400	1,840	8.07				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	e6.8	9.4	8.6	18	14	32	11	144	19	3.6	4.6
2	11	e6.5	8.5	8.1	14	14	26	11	266	20	3.2	3.1
3	11	e6.5	7.8	7.9	13	13	22	10	23	7.2	3.0	2.6
4	60	e6.3	7.7	8.0	11	29	20	10	15	6.8	133	2.8
5	72	e6.0	7.6	8.0	166	59	19	9.6	12	16	26	11
6	13	e6.0	7.3	9.6	109	37	36	9.2	11	7.2	5.8	3.2
7	9.9	e5.8	7.1	9.3	68	45	23	9.0	10	6.1	4.4	2.5
8	9.0	e5.5	6.9	22	33	31	27	8.8	9.8	6.1	3.8	2.5
9	8.7	e12	6.8	25	24	39	28	8.7	9.2	12	3.4	2.4
10	8.6	e62	6.7	10	45	20	40	8.7	8.8	7.6	42	7.1
11	8.2	e5.7	7.0	8.0	19	16	55	8.5	8.7	6.0	29	6.8
12	8.0	e5.7	7.1	7.9	16	15	55	8.1	24	5.3	198	2.7
13	8.0	e4.9	6.8	7.5	21	198	25	7.8	9.6	5.2	54	2.1
14	7.8	28	145	7.4	16	29	21	8.5	8.4	5.0	14	81
15	7.6	13	16	50	17	47	20	7.8	9.6	4.8	7.0	9.6
16	7.4	7.2	31	18	44	56	50	7.6	279	4.6	5.8	4.9
17	7.7	7.0	254	13	66	81	21	7.6	348	4.7	5.4	3.2
18	17	7.0	33	12	18	31	24	7.6	25	39	4.6	2.6
19	e8.4	6.9	15	187	15	20	17	7.6	14	6.7	4.4	2.4
20	e8.0	9.3	13	130	15	17	16	7.3	11	7.1	16	13
21	e7.9	13	11	45	14	331	16	41	41	5.8	5.4	30
22	e7.7	7.1	11	23	13	87	15	148	17	4.8	4.0	4.9
23	e7.7	6.8	9.1	18	22	30	14	27	87	4.4	3.9	3.2
24	e7.5	6.5	8.8	15	18	23	14	10	26	4.2	9.2	3.3
25	e7.5	6.4	8.1	15	62	19	13	8.6	10	3.9	4.0	38
26	e7.4	197	7.8	12	39	21	13	214	9.1	9.7	3.4	5.6
27	e7.4	22	8.1	12	18	18	12	119	8.3	6.0	66	3.4
28	e7.2	11	8.2	12	15	16	12	38	7.9	4.0	17	2.8
29	e7.0	16	7.6	11	---	20	11	31	7.6	3.7	4.6	2.5
30	e7.0	29	8.2	156	---	621	11	15	7.1	9.6	3.8	3.8
31	e6.8	---	9.1	36	---	50	---	9.5	---	4.6	18	---
TOTAL	384.4	532.9	700.7	912.3	949	2047	708	835.5	1467.1	257.1	705.7	267.6
MEAN	12.4	17.8	22.6	29.4	33.9	66.0	23.6	27.0	48.9	8.29	22.8	8.92
MAX	72	197	254	187	166	621	55	214	348	39	198	81
MIN	6.8	4.9	6.7	7.4	11	13	11	7.3	7.1	3.7	3.0	2.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)

MEAN	21.3	26.4	33.4	35.3	34.0	40.5	36.6	33.7	29.9	37.3	31.8	29.2
MAX	59.9	112	124	136	105	98.0	104	74.2	84.7	112	130	109
(WY)	1977	1973	1997	1979	1979	1994	1983	1989	1989	1989	1971	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	1999	1981	1980	1985	1985	1977	1966	1999	1995	1970

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001	
ANNUAL TOTAL	11861.0		9767.3		32.6	
ANNUAL MEAN	32.4		26.8		52.3	
HIGHEST ANNUAL MEAN					1979	
LOWEST ANNUAL MEAN					1995	
HIGHEST DAILY MEAN	554	Sep 3	621	Mar 30	2490	Sep 16 1999
LOWEST DAILY MEAN	3.3	Jul 13	2.1	Sep 13	.21	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	5.7	Jul 3	3.7	Sep 7	.33	Aug 1 1999
MAXIMUM PEAK FLOW			a1850	Mar 30	a9400	Jul 28 1982
MAXIMUM PEAK STAGE			8.08	Mar 30	15.35	Jul 28 1982
10 PERCENT EXCEEDS	75		52		61	
50 PERCENT EXCEEDS	11		10		12	
90 PERCENT EXCEEDS	6.5		4.6		4.4	

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

