

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)
Oct. 29	0745	1,450	7.42	Apr. 13	2345	2,780	9.36
Nov. 19	2030	1,820	8.03	July 12	2015	3,200	9.86
Dec. 11	1200	3,130	9.78	July 28	0045	2,680	9.23
Dec. 14	2015	1,310	7.17	Aug. 1	1130	3,110	9.76
Dec. 24	1015	2,560	9.08	Sept. 28	2245	*5,430	*12.19
Feb. 6	1500	2,420	8.90				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	10	12	17	10	11	22	19	40	5.1	e380	8.6
2	6.4	9.1	11	17	11	12	54	18	14	6.9	e50	7.0
3	6.6	8.5	10	16	168	11	92	88	14	4.7	33	6.6
4	6.5	8.4	10	18	63	21	77	49	8.0	4.2	27	6.4
5	8.0	57	12	77	23	12	28	33	27	25	e20	6.3
6	6.3	60	15	26	739	85	18	28	21	6.4	13	6.1
7	6.0	30	14	17	130	20	16	18	8.6	6.1	12	6.1
8	5.9	11	13	15	33	55	18	16	7.3	11	11	26
9	5.8	9.4	13	15	21	33	20	15	6.7	4.3	10	9.1
10	5.8	9.1	43	13	21	21	14	18	12	3.7	10	6.5
11	5.8	9.0	945	13	20	15	14	15	16	3.4	99	6.1
12	5.5	41	54	14	16	13	55	14	7.5	e690	32	5.7
13	5.2	12	25	14	15	12	660	13	6.2	e80	12	e5.3
14	14	9.8	268	13	15	11	454	13	6.2	119	11	5.1
15	229	9.9	100	13	14	11	94	13	14	66	47	5.1
16	9.5	8.9	28	12	13	39	38	29	10	12	27	6.3
17	8.5	8.7	138	13	12	45	31	13	7.5	9.1	12	5.6
18	21	8.5	43	75	12	35	26	13	28	201	10	59
19	7.2	319	24	23	12	127	23	38	6.7	72	9.4	16
20	6.1	300	20	14	12	39	e22	18	5.6	14	9.0	6.3
21	5.8	25	18	15	12	33	e21	12	5.2	10	35	5.6
22	6.2	15	17	12	12	18	e20	12	11	8.8	15	5.2
23	5.7	13	16	10	12	16	e50	11	9.8	107	9.5	4.7
24	5.5	12	680	10	13	14	e70	10	5.3	30	8.3	4.6
25	5.3	16	58	9.4	14	15	e30	9.8	5.2	12	8.0	4.6
26	5.1	11	30	9.8	12	14	e140	12	16	10	7.7	4.5
27	318	10	24	10	11	16	e160	10	5.4	194	7.4	4.4
28	59	65	21	11	11	14	e50	9.3	4.8	e700	7.1	1030
29	475	71	20	11	11	13	e40	8.5	35	e130	6.9	1060
30	25	14	20	10	---	12	e25	8.1	6.5	18	8.6	43
31	13	---	18	9.7	---	58	---	37	---	14	69	---
TOTAL	1299.4	1191.3	2720	552.9	1468	851	2382	620.7	370.5	2577.7	1016.9	2375.8
MEAN	41.9	39.7	87.7	17.8	50.6	27.5	79.4	20.0	12.3	83.2	32.8	79.2
MAX	475	319	945	77	739	127	660	88	40	700	380	1060
MIN	5.1	8.4	10	9.4	10	11	14	8.1	4.8	3.4	6.9	4.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	21.4	26.3	34.3	34.0	34.2	40.2	36.8	33.4	30.3	37.1	31.0	30.3
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 2003 CALENDAR YEAR			FOR 2004 WATER YEAR			WATER YEARS 1965 - 2004		
ANNUAL TOTAL	14600.0			17426.2					
ANNUAL MEAN	40.0			47.6			32.5		
HIGHEST ANNUAL MEAN							52.3		
LOWEST ANNUAL MEAN							15.7		
HIGHEST DAILY MEAN	945	Dec 11		1060	Sep 29		2490	Sep 16	1999
LOWEST DAILY MEAN	2.9	Aug 25		3.4	Jul 11		0.21	Aug 3	1999
ANNUAL SEVEN-DAY MINIMUM	3.5	Aug 20		4.8	Sep 21		0.33	Aug 1	1999
MAXIMUM PEAK FLOW				a5430	Sep 28		a9400	Jul 28	1982
MAXIMUM PEAK STAGE				12.19	Sep 28		15.35	Jul 28	1982
10 PERCENT EXCEEDS	80			76			61		
50 PERCENT EXCEEDS	13			13			12		
90 PERCENT EXCEEDS	5.8			6.1			4.3		

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

