

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.--No estimated daily discharges. Records fair. 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) |
|---------|------|---------------------------------|---------------------|--------|------|---------------------------------|---------------------|
| Feb. 22 | 1545 | *2,560 | *9.08 | May 26 | 1230 | 2,060 | 8.40 |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|-------|--------|-------|--------|------|------|--------|------|-------|-------|-------|
| 1 | 1.8 | 7.8 | 6.5 | 165 | 12 | 17 | 19 | 10 | 102 | 10 | 27 | 9.6 |
| 2 | 1.5 | 7.7 | 6.1 | 73 | 12 | 282 | 20 | 45 | 22 | 9.8 | 14 | 61 |
| 3 | 1.3 | 4.7 | 6.0 | 51 | 8.4 | 78 | 15 | 25 | 14 | 9.8 | 7.3 | 41 |
| 4 | 2.9 | 4.0 | 5.7 | 43 | 28 | 29 | 14 | 10 | 305 | 9.5 | 40 | 42 |
| 5 | 2.4 | 4.2 | 6.3 | 19 | 12 | 144 | 14 | 11 | 60 | 9.8 | 21 | 11 |
| 6 | 1.5 | 80 | 9.4 | 27 | 7.5 | 217 | 13 | 46 | 23 | 9.9 | 11 | 6.5 |
| 7 | 1.2 | 8.2 | 8.5 | 19 | 9.8 | 52 | 35 | 17 | 156 | 16 | 12 | 5.5 |
| 8 | 0.96 | 5.0 | 12 | 16 | 11 | 37 | 48 | 176 | 53 | 14 | 72 | 5.0 |
| 9 | 0.84 | 4.4 | 12 | 16 | 9.5 | 56 | 75 | 18 | 23 | 8.4 | 20 | 4.6 |
| 10 | 20 | 4.0 | 6.9 | 13 | 9.7 | 32 | 28 | 13 | 18 | 16 | 21 | 4.2 |
| 11 | 256 | 24 | 193 | 11 | 9.4 | 21 | 57 | 12 | 16 | 13 | 12 | 4.2 |
| 12 | 26 | 116 | 89 | 10 | 7.5 | 20 | 101 | 10 | 112 | 9.4 | 5.8 | 3.9 |
| 13 | 6.9 | 62 | 61 | 10 | 6.5 | 23 | 25 | 9.2 | 103 | 8.0 | 5.2 | 84 |
| 14 | 3.7 | 13 | 118 | 9.6 | 6.5 | 21 | 19 | 8.8 | 53 | 9.0 | 5.0 | 64 |
| 15 | 2.7 | 7.5 | 23 | 9.2 | 6.6 | 18 | 18 | 8.6 | 21 | 7.4 | 4.6 | 103 |
| 16 | 61 | 26 | 15 | 9.1 | 4.5 | 18 | 17 | 12 | 15 | 6.9 | 4.4 | 43 |
| 17 | 16 | 244 | 11 | 9.4 | 3.3 | 20 | 15 | 34 | 14 | 6.3 | 4.8 | 7.8 |
| 18 | 5.2 | 88 | 9.8 | 8.7 | 8.5 | 17 | 13 | 9.9 | 157 | 14 | 4.2 | 6.9 |
| 19 | 3.7 | 15 | 9.4 | 8.4 | 12 | 15 | 13 | 8.7 | 24 | 43 | 3.9 | 120 |
| 20 | 3.5 | 10 | 89 | 8.7 | 24 | 158 | 13 | 8.2 | 229 | 6.6 | 3.8 | 9.0 |
| 21 | 3.2 | 8.8 | 22 | 8.2 | 37 | 136 | 12 | 29 | 101 | 5.9 | 3.7 | 6.3 |
| 22 | 2.3 | 69 | 12 | 7.6 | 685 | 33 | 13 | 13 | 25 | 14 | 3.7 | 5.7 |
| 23 | 2.0 | 21 | 10 | 7.5 | 336 | 21 | 12 | 25 | 18 | 61 | 3.4 | 147 |
| 24 | 2.0 | 9.6 | 9.2 | 7.8 | 90 | 19 | 11 | 33 | 15 | 17 | 3.1 | 18 |
| 25 | 2.1 | 8.1 | 255 | 7.8 | 40 | 18 | 11 | 16 | 14 | 7.0 | 2.9 | 8.4 |
| 26 | 131 | 7.2 | 53 | 8.1 | 24 | 26 | 43 | 491 | 13 | 5.8 | 3.6 | 7.4 |
| 27 | 8.5 | 34 | 23 | 7.7 | 17 | 28 | 14 | 38 | 12 | 5.7 | 31 | 7.7 |
| 28 | 4.3 | 10 | 16 | 7.0 | 19 | 15 | 11 | 27 | 11 | 13 | 8.1 | 130 |
| 29 | 37 | 7.5 | 14 | 7.9 | --- | 37 | 11 | 19 | 11 | 5.8 | 3.4 | 12 |
| 30 | 107 | 7.0 | 12 | 9.4 | --- | 47 | 11 | 13 | 11 | 5.3 | 165 | 7.3 |
| 31 | 42 | --- | 11 | 9.5 | --- | 25 | --- | 41 | --- | 5.4 | 23 | --- |
| TOTAL | 760.50 | 917.7 | 1134.8 | 624.6 | 1456.7 | 1680 | 721 | 1237.4 | 1751 | 382.7 | 549.9 | 986.0 |
| MEAN | 24.5 | 30.6 | 36.6 | 20.1 | 52.0 | 54.2 | 24.0 | 39.9 | 58.4 | 12.3 | 17.7 | 32.9 |
| MAX | 256 | 244 | 255 | 165 | 685 | 282 | 101 | 491 | 305 | 61 | 165 | 147 |
| MIN | 0.84 | 4.0 | 5.7 | 7.0 | 3.3 | 15 | 11 | 8.2 | 11 | 5.3 | 2.9 | 3.9 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2003, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 20.9 | 25.9 | 32.9 | 34.4 | 33.8 | 40.5 | 35.7 | 33.7 | 30.8 | 35.9 | 30.9 | 29.0 |
| 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 |

POQUESSING CREEK BASIN

01465798 POQUESSING CREEK AT GRANT AVENUE, PHILADELPHIA, PA--Continued

| SUMMARY STATISTICS | FOR 2002 CALENDAR YEAR | | FOR 2003 WATER YEAR | | WATER YEARS 1965 - 2003 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 7954.27 | | 12202.30 | | | |
| ANNUAL MEAN | 21.8 | | 33.4 | | 32.1 | |
| HIGHEST ANNUAL MEAN | | | | | 52.3 | 1979 |
| LOWEST ANNUAL MEAN | | | | | 15.7 | 2002 |
| HIGHEST DAILY MEAN | 436 | May 18 | 685 | Feb 22 | 2490 | Sep 16 1999 |
| LOWEST DAILY MEAN | 0.37 | Aug 19 | 0.84 | Oct 9 | 0.21 | Aug 3 1999 |
| ANNUAL SEVEN-DAY MINIMUM | 0.55 | Aug 13 | 1.6 | Oct 3 | 0.33 | Aug 1 1999 |
| MAXIMUM PEAK FLOW | | | a2560 | Feb 22 | a9400 | Jul 28 1982 |
| MAXIMUM PEAK STAGE | | | 9.08 | Feb 22 | 15.35 | Jul 28 1982 |
| 10 PERCENT EXCEEDS | 61 | | 86 | | 61 | |
| 50 PERCENT EXCEEDS | 6.0 | | 13 | | 12 | |
| 90 PERCENT EXCEEDS | 1.5 | | 4.4 | | 4.2 | |

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

