

SCHUYLKILL RIVER BASIN

01472810 EAST BRANCH PERKIOMEN CREEK NEAR SCHWENKSVILLE, PA

LOCATION.--Lat 40°15'31", long 75°25'45", Montgomery County, Hydrologic Unit 02040203, on left bank 600 ft upstream from Bergey's Mill bridge, and 2.0 mi east of Schwenksville.

DRAINAGE AREA.--58.7 mi², not including distributary.

PERIOD OF RECORD.--January 1991 to current year.

REVISED RECORD.--WDR PA-96-1: 1993-95(P). WDR PA-99-1: 1996, 1997 (M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Diversion since August 1989 from Delaware River at Point Pleasant to Bradshaw Reservoir (Geddes Creek Basin). Pumpage from reservoir enters stream about 19 mi upstream of gage. Pumpage into the creek was equivalent to an annual mean discharge of 26.5 ft³/s. See station 01472618, Distributary from Bradshaw Reservoir, for pumpage data. Peak flows are unregulated. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

| Date | Time | Discharge ft ³ /s | Gage Height (ft) | Date | Time | Discharge ft ³ /s | Gage Height (ft) |
|---------|------|---------------------------------|---------------------|----------|------|---------------------------------|---------------------|
| Nov. 17 | 0830 | 3,930 | 8.14 | June 20 | 2330 | 4,130 | 8.33 |
| Dec. 20 | 1800 | 2,570 | 6.75 | Aug. 5 | 1930 | 3,570 | 7.79 |
| Feb. 22 | 2000 | 3,770 | 7.99 | Aug. 6 | 1030 | 2,970 | 7.20 |
| June 4 | 1430 | *4,160 | *8.35 | Sept. 23 | 0930 | 3,750 | 7.97 |

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 | 74 | 104 | 56 | 708 | e50 | 68 | 142 | 78 | 168 | 80 | 111 | 49 |
| 2 | 72 | 80 | 50 | 529 | e60 | 664 | 127 | 76 | 129 | 82 | 109 | 181 |
| 3 | 71 | 65 | e45 | 228 | e55 | 584 | 99 | 78 | 86 | 82 | 65 | 149 |
| 4 | 74 | 56 | e40 | 282 | e50 | 194 | 84 | 78 | 2060 | 79 | 117 | 222 |
| 5 | 74 | 50 | e45 | 146 | e45 | 474 | 88 | 78 | 821 | 86 | 932 | 160 |
| 6 | 72 | 160 | e40 | 120 | e40 | 712 | 82 | 82 | 286 | 79 | 1230 | 91 |
| 7 | 71 | 94 | e40 | 109 | e40 | 270 | 73 | 81 | 519 | 79 | 248 | 74 |
| 8 | 70 | 67 | e40 | 101 | e35 | 225 | 93 | 90 | 458 | 81 | 164 | 66 |
| 9 | 70 | 57 | e35 | 143 | e35 | 630 | 340 | 85 | 222 | 77 | 139 | 62 |
| 10 | 74 | 63 | e35 | 109 | e35 | 309 | 367 | 84 | 144 | 76 | 290 | 57 |
| 11 | 361 | 72 | e250 | 78 | e30 | 150 | 413 | 82 | 110 | 86 | 161 | 53 |
| 12 | 272 | 198 | e800 | e60 | e30 | 156 | 423 | 81 | 93 | 99 | 115 | 49 |
| 13 | 131 | 311 | 385 | e55 | e30 | 267 | 204 | 79 | 131 | 85 | 90 | 94 |
| 14 | 103 | 123 | 1020 | e50 | e30 | 271 | 129 | 79 | 166 | 80 | 79 | 228 |
| 15 | 92 | 88 | 266 | e50 | e25 | 181 | 106 | 78 | 104 | 77 | 69 | 845 |
| 16 | 194 | 106 | 145 | e45 | e30 | 207 | 73 | 79 | 83 | 75 | 65 | 861 |
| 17 | 219 | 1680 | 97 | e45 | e40 | 262 | 64 | 91 | 73 | 74 | 66 | 198 |
| 18 | 98 | 748 | 76 | e40 | e130 | 207 | e59 | 81 | 146 | 74 | 80 | 128 |
| 19 | 77 | 195 | 67 | e35 | e250 | 144 | 60 | 79 | 134 | 78 | 62 | 753 |
| 20 | 70 | 127 | 876 | e40 | e150 | 340 | 53 | 78 | 1490 | 73 | 56 | 209 |
| 21 | 60 | 98 | 306 | e35 | e120 | 857 | 49 | 84 | 1390 | 73 | 54 | 130 |
| 22 | 51 | 117 | 142 | e30 | e700 | 266 | 105 | 81 | 320 | 337 | 56 | 98 |
| 23 | 48 | 135 | 103 | e30 | e1400 | 159 | 76 | 77 | 188 | 456 | 55 | 1590 |
| 24 | 46 | 85 | 82 | e30 | 739 | 116 | 58 | 81 | 123 | 141 | 49 | 331 |
| 25 | 46 | 71 | 345 | e25 | 278 | 93 | 50 | 88 | 94 | 85 | 48 | 172 |
| 26 | 194 | 63 | 274 | e25 | 157 | 85 | 59 | 932 | 79 | 68 | 48 | 130 |
| 27 | 108 | 76 | 159 | e20 | 103 | 114 | 65 | 295 | 68 | 84 | 49 | 156 |
| 28 | 76 | 84 | 120 | e30 | 76 | 82 | 51 | 153 | 61 | 105 | 48 | 358 |
| 29 | 67 | 66 | 103 | e30 | --- | 93 | 67 | 144 | 79 | 80 | 47 | 148 |
| 30 | 208 | 60 | 94 | e35 | --- | 344 | 74 | 97 | 86 | 78 | 50 | 103 |
| 31 | 249 | --- | 143 | e45 | --- | 263 | --- | 79 | --- | 77 | 54 | --- |
| TOTAL | 3492 | 5299 | 6279 | 3308 | 4763 | 8787 | 3733 | 3728 | 9911 | 3186 | 4806 | 7745 |
| MEAN | 113 | 177 | 203 | 107 | 170 | 283 | 124 | 120 | 330 | 103 | 155 | 258 |
| MAX | 361 | 1680 | 1020 | 708 | 1400 | 857 | 423 | 932 | 2060 | 456 | 1230 | 1590 |
| MIN | 46 | 50 | 35 | 20 | 25 | 68 | 49 | 76 | 61 | 68 | 47 | 49 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2003, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 112 | 119 | 163 | 152 | 114 | 201 | 124 | 109 | 103 | 81.1 | 94.3 | 112 |
| MAX | 287 | 201 | 405 | 456 | 183 | 388 | 230 | 230 | 330 | 107 | 159 | 277 |
| (WY) | 1997 | 1994 | 1997 | 1996 | 2001 | 1994 | 1993 | 1998 | 2003 | 1996 | 1994 | 1999 |
| MIN | 65.1 | 66.0 | 52.1 | 70.7 | 49.0 | 115 | 43.2 | 60.9 | 57.8 | 56.3 | 52.5 | 64.8 |
| (WY) | 2002 | 2002 | 1996 | 1992 | 2002 | 2002 | 1992 | 1999 | 1993 | 1999 | 1997 | 2002 |

e Estimated.

SCHUYLKILL RIVER BASIN

01472810 EAST BRANCH PERKIOMEN CREEK NEAR SCHWENKSVILLE, PA--Continued

| SUMMARY STATISTICS | FOR 2002 CALENDAR YEAR | | FOR 2003 WATER YEAR | | WATER YEARS 1991 - 2003 | |
|--------------------------|------------------------|---------------------|---------------------|--------|-------------------------|--------------------------|
| ANNUAL TOTAL | 39332.0 | | 65037 | | | |
| ANNUAL MEAN | 108 | | 178 | | 125 | |
| HIGHEST ANNUAL MEAN | | | | | 178 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 80.6 | 1992 |
| HIGHEST DAILY MEAN | 1680 | Nov 17 | 2060 | Jun 4 | 6020 | Jan 19 1996 |
| LOWEST DAILY MEAN | 3.5 | Sep 25 ^a | ^e 20 | Jan 27 | 3.5 | Sep 25 2002 ^a |
| ANNUAL SEVEN-DAY MINIMUM | 11 | Sep 19 | ^b 27 | Jan 22 | 11 | Sep 19 2002 |
| MAXIMUM PEAK FLOW | | | ^c 4160 | Jun 4 | ^c 12300 | Sep 16 1999 |
| MAXIMUM PEAK STAGE | | | 8.35 | Jun 4 | 14.03 | Sep 16 1999 |
| 10 PERCENT EXCEEDS | 193 | | 350 | | 200 | |
| 50 PERCENT EXCEEDS | 72 | | 85 | | 73 | |
| 90 PERCENT EXCEEDS | 44 | | 45 | | 48 | |

^a Result of no pumpage from the Delaware River diversion.

^b Computed using estimated daily discharges.

^c From rating curve extended above 2,840 ft³/s on basis of contracted-opening measurement of peak flow.

^e Estimated.

