

SCHUYLKILL RIVER BASIN

01471875 MANATAWNY CREEK NEAR SPANGSVILLE, PA

LOCATION.--Lat 40°20'22", long 75°44'33", Berks County, Hydrologic Unit 02040203, on left bank 200 ft north of powerline across stream, 1.2 mi south of Spangsville, and 1.3 mi north of SR 562 and Earlville.

DRAINAGE AREA.--56.9 mi².

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 265 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and those above 1,200 ft³/s, which are fair. 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 1,300 ft³/s and maximum (*):

| Date | Time | Discharge ft ³ /s | Gage Height (ft) | Date | Time | Discharge ft ³ /s | Gage Height (ft) |
|---------|------|---------------------------------|---------------------|---------|------|---------------------------------|---------------------|
| Dec. 17 | 1445 | 2,850 | 7.63 | July 26 | 0415 | 2,530 | 7.32 |
| June 22 | 2200 | *2,880 | *7.66 | | | | |

**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 | 31 | 29 | 43 | e40 | e120 | 79 | 132 | 74 | 64 | 169 | 40 | 41 |
| 2 | 32 | 29 | 38 | e36 | e90 | 78 | 119 | 71 | 122 | 132 | 37 | 28 |
| 3 | 30 | 29 | 34 | e35 | e80 | 76 | 108 | 68 | 76 | e78 | 35 | 26 |
| 4 | 45 | 29 | 32 | e38 | e70 | 79 | 102 | 66 | 66 | 75 | 36 | 28 |
| 5 | 127 | 29 | e28 | e34 | e70 | 85 | 96 | 64 | 60 | 67 | 35 | 33 |
| 6 | 49 | 28 | e27 | e32 | e75 | 78 | 133 | 61 | 57 | 73 | 33 | 27 |
| 7 | 39 | 28 | e26 | e32 | e78 | 90 | 123 | 60 | 55 | 58 | 32 | 26 |
| 8 | 33 | 28 | e30 | e34 | e80 | 98 | 149 | 60 | 52 | 57 | 31 | 25 |
| 9 | 32 | 29 | e29 | e38 | e80 | 101 | 127 | 60 | 50 | 60 | 30 | 25 |
| 10 | 31 | 85 | e27 | e36 | 257 | 91 | 164 | 58 | 49 | 53 | 35 | 27 |
| 11 | 30 | 53 | e26 | e34 | 120 | 86 | 130 | 56 | 48 | 51 | 72 | 31 |
| 12 | 28 | 40 | e25 | e34 | 90 | 84 | 146 | 55 | 48 | 47 | 48 | 26 |
| 13 | 26 | 36 | e24 | e32 | 90 | 258 | 118 | 54 | 50 | 46 | 56 | 25 |
| 14 | 25 | 47 | e115 | e32 | 93 | 143 | 104 | 52 | 47 | 46 | 40 | 28 |
| 15 | 25 | 49 | e80 | e34 | 114 | 109 | 99 | 52 | 47 | 44 | 35 | 27 |
| 16 | 25 | 38 | e68 | e36 | 107 | 108 | 170 | 51 | 58 | 44 | 33 | 24 |
| 17 | 28 | 36 | 1080 | e38 | 141 | 134 | 124 | 51 | 83 | 49 | 32 | 24 |
| 18 | 68 | 34 | 189 | e40 | 88 | 110 | 203 | 54 | 50 | 71 | 31 | 23 |
| 19 | 42 | 33 | e105 | e140 | 78 | 92 | 141 | 54 | 45 | 48 | 30 | 24 |
| 20 | 29 | 32 | e90 | 160 | e75 | 87 | 117 | 50 | 43 | 45 | 32 | 43 |
| 21 | 26 | 32 | e75 | 88 | e72 | 177 | 113 | 73 | 44 | 43 | 30 | 66 |
| 22 | 26 | 30 | e60 | e65 | e69 | 207 | 107 | 184 | 519 | 41 | 29 | 32 |
| 23 | 26 | 29 | e45 | e56 | e65 | 118 | 100 | 113 | 605 | 40 | 30 | 27 |
| 24 | 26 | 29 | e40 | e55 | e63 | 105 | 95 | 68 | 135 | 40 | 34 | 30 |
| 25 | 27 | 27 | e35 | 59 | e90 | 97 | 89 | 60 | 90 | 113 | 29 | 263 |
| 26 | 29 | 119 | e30 | e45 | 157 | 92 | 85 | 166 | 75 | 814 | 27 | 54 |
| 27 | 28 | 75 | e32 | e44 | 105 | 86 | 83 | 290 | 67 | 80 | 27 | 38 |
| 28 | 28 | 48 | e33 | e50 | 89 | 84 | 79 | 134 | 62 | 55 | 32 | 34 |
| 29 | 28 | 42 | e36 | e48 | --- | 84 | 76 | 85 | 59 | 49 | 27 | 32 |
| 30 | 29 | 60 | e38 | 150 | --- | 457 | 75 | 78 | 60 | 49 | 26 | 31 |
| 31 | 29 | --- | e40 | 151 | --- | 169 | --- | 66 | --- | 43 | 27 | --- |
| TOTAL | 1077 | 1232 | 2580 | 1746 | 2706 | 3742 | 3507 | 2488 | 2886 | 2680 | 1071 | 1168 |
| MEAN | 34.7 | 41.1 | 83.2 | 56.3 | 96.6 | 121 | 117 | 80.3 | 96.2 | 86.5 | 34.5 | 38.9 |
| MAX | 127 | 119 | 1080 | 160 | 257 | 457 | 203 | 290 | 605 | 814 | 72 | 263 |
| MIN | 25 | 27 | 24 | 32 | 63 | 76 | 75 | 50 | 43 | 40 | 26 | 23 |
| CFSM | .61 | .72 | 1.46 | .99 | 1.70 | 2.12 | 2.05 | 1.41 | 1.69 | 1.52 | .61 | .68 |
| IN. | .70 | .81 | 1.69 | 1.14 | 1.77 | 2.45 | 2.29 | 1.63 | 1.89 | 1.75 | .70 | .76 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 61.1 | 72.2 | 105 | 109 | 105 | 167 | 131 | 90.2 | 71.2 | 52.7 | 37.8 | 41.6 |
| MAX | 139 | 154 | 326 | 201 | 141 | 353 | 201 | 142 | 108 | 88.1 | 79.5 | 95.0 |
| (WY) | 1997 | 1997 | 1997 | 1996 | 1996 | 1994 | 1996 | 1998 | 1998 | 1996 | 1994 | 1999 |
| MIN | 27.4 | 37.3 | 21.1 | 44.1 | 75.5 | 99.7 | 70.4 | 50.8 | 26.3 | 14.6 | 13.6 | 18.9 |
| (WY) | 1998 | 1999 | 1999 | 2000 | 1995 | 1999 | 1995 | 1999 | 1999 | 1999 | 1999 | 1995 |

e Estimated.

SCHUYLKILL RIVER BASIN

01471875 MANATAWNY CREEK NEAR SPANGSVILLE, PA--Continued

| SUMMARY STATISTICS | FOR 2000 CALENDAR YEAR | | FOR 2001 WATER YEAR | | WATER YEARS 1994 - 2001 | |
|--------------------------|------------------------|-----------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 26947 | | 26883 | | | |
| ANNUAL MEAN | 73.6 | | 73.7 | | 86.9 | |
| HIGHEST ANNUAL MEAN | | | | | 125 | 1994 |
| LOWEST ANNUAL MEAN | | | | | 57.4 | 1999 |
| HIGHEST DAILY MEAN | 1330 | Mar 22 | 1080 | Dec 17 | 1620 | Oct 19 1996 |
| LOWEST DAILY MEAN | 24 | Sep 10,12 | 23 | Sep 18 | 8.8 | Aug 3 1999 |
| ANNUAL SEVEN-DAY MINIMUM | 25 | Sep 6 | 25 | Sep 13 | 9.5 | Aug 1 1999 |
| MAXIMUM PEAK FLOW | | | a2880 | Jun 22 | a3380 | Oct 19 1996 |
| MAXIMUM PEAK STAGE | | | 7.66 | Jun 22 | 8.11 | Oct 19 1996 |
| INSTANTANEOUS LOW FLOW | | | 21 | Dec 4 | 7.5 | Jan 17 2000 |
| ANNUAL RUNOFF (CFSM) | 1.29 | | 1.29 | | 1.53 | |
| ANNUAL RUNOFF (INCHES) | 17.62 | | 17.58 | | 20.75 | |
| 10 PERCENT EXCEEDS | 127 | | 128 | | 163 | |
| 50 PERCENT EXCEEDS | 46 | | 51 | | 56 | |
| 90 PERCENT EXCEEDS | 28 | | 28 | | 24 | |

a From rating curve extended above 1,200 ft³/s.

