

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01549700 PINE CREEK BELOW LITTLE PINE CREEK NEAR WATERVILLE, PA

**LOCATION.**--Lat 41°16'25", long 77°19'28", Lycoming County, Hydrologic Unit 02050205, on left bank on State Highway 44, on abutment of abandoned bridge 0.9 mi downstream from Ramsey Run, 4.0 mi downstream from Little Pine Creek, 4.0 mi south of Waterville, and 9.2 mi upstream from mouth.

**DRAINAGE AREA.**--944 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1957 to current year.

**REVISED RECORDS.**--WDR PA-72-1: 1964(P).

**GAGE.**--Water-stage recorder. Datum of gage is 570.62 ft above sea level. Prior to June 16, 1982, nonrecording gage at same site and datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flood flows subject to regulation by Little Pine Dam 8.5 mi upstream, capacity 24,900 acre-ft. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 9,200 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>ft <sup>3</sup> /s | Gage Height<br>(ft) | Date   | Time | Discharge<br>ft <sup>3</sup> /s | Gage Height<br>(ft) |
|---------|------|---------------------------------|---------------------|--------|------|---------------------------------|---------------------|
| Nov. 27 | 0315 | 10,900                          | 6.88                | Apr. 4 | 1130 | *12,200                         | *7.22               |
| Feb. 28 | 0945 | 11,800                          | 7.11                |        |      |                                 |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|
| 1     | 1020 | 161   | 1830  | e700  | e450  | 5810  | 1270   | 1560  | 1230  | 854   | 236  | 96   |
| 2     | 545  | 167   | 1510  | e660  | e440  | 4580  | 1150   | 1470  | 1100  | 729   | 254  | 96   |
| 3     | 378  | 284   | 1280  | 696   | e420  | 3440  | 1380   | 1330  | 1040  | 675   | 241  | 112  |
| 4     | 339  | 528   | 1140  | 862   | e430  | 2810  | 8210   | 1160  | 894   | 634   | 207  | 108  |
| 5     | 336  | 425   | 1040  | 1350  | e450  | 2390  | 7350   | 1110  | 841   | 563   | 187  | 103  |
| 6     | 285  | 373   | 971   | 1110  | e410  | 2070  | 5280   | 1000  | 1160  | 481   | 178  | 94   |
| 7     | 246  | 339   | 975   | 1080  | e390  | 1810  | 3890   | 922   | 1210  | 427   | 213  | 82   |
| 8     | 212  | 318   | 804   | 1100  | e380  | 1650  | 3430   | 874   | 904   | 388   | 346  | 76   |
| 9     | 203  | 323   | 732   | 1070  | e370  | 1550  | 4690   | 817   | 766   | 353   | 301  | 73   |
| 10    | 212  | 339   | 714   | 1100  | e360  | 1480  | 4340   | 774   | 685   | 345   | 239  | 74   |
| 11    | 233  | 330   | 707   | 1440  | e400  | 1390  | 3720   | 737   | 629   | 347   | 230  | 75   |
| 12    | 223  | 311   | 686   | 1420  | e380  | 1840  | 3220   | 677   | 941   | 313   | 204  | 80   |
| 13    | 204  | 280   | 655   | 1290  | e370  | 1930  | 2720   | 773   | 1960  | 282   | 198  | 135  |
| 14    | 216  | 255   | 789   | e1100 | e400  | 1750  | 2320   | 817   | 2050  | 273   | 208  | 195  |
| 15    | 349  | 244   | 2860  | e1000 | e420  | 1680  | 2040   | 752   | 1920  | 349   | 199  | 181  |
| 16    | 341  | 235   | 2810  | e950  | e450  | 1630  | 1820   | 677   | 2060  | 360   | 178  | 137  |
| 17    | 290  | 234   | 2610  | e900  | e420  | 3310  | 1860   | 640   | 2260  | 396   | 161  | 122  |
| 18    | 262  | 224   | 2300  | e820  | e410  | 3290  | 3590   | 619   | 2020  | 424   | 156  | 116  |
| 19    | 252  | 216   | 1970  | e790  | e400  | 2990  | 4830   | 2040  | 2890  | 320   | 148  | 102  |
| 20    | 242  | 206   | 1750  | e770  | e390  | 2670  | 3910   | 3240  | 2410  | 286   | 142  | 94   |
| 21    | 238  | 198   | 1990  | e810  | e640  | 2450  | 3630   | 2860  | 2150  | 262   | 135  | 92   |
| 22    | 222  | 197   | 1740  | e770  | e900  | 4070  | 4360   | 2430  | 2640  | 252   | 114  | 87   |
| 23    | 207  | 194   | 1540  | e720  | e1200 | 3620  | 5510   | 2240  | 2120  | 234   | 111  | 89   |
| 24    | 202  | 184   | e1400 | e670  | e1500 | 3240  | 5290   | e4500 | 1750  | 218   | 149  | 115  |
| 25    | 204  | 196   | e1200 | e630  | e2500 | 2860  | 4320   | e5500 | 1480  | 202   | 163  | 103  |
| 26    | 206  | 862   | e1100 | e640  | e6300 | 2570  | 3420   | 4240  | 1730  | 189   | 145  | 113  |
| 27    | 190  | 9020  | e1000 | e650  | 7160  | 2210  | 2830   | 3150  | 1580  | 182   | 117  | 137  |
| 28    | 181  | 5420  | e940  | e600  | 10400 | 2030  | 2450   | 2520  | 1510  | 176   | 111  | 142  |
| 29    | 173  | 3360  | e900  | e550  | 8420  | 1850  | 2050   | 2070  | 1190  | 181   | 102  | 135  |
| 30    | 168  | 2410  | e820  | e500  | ---   | 1620  | 1780   | e1700 | 1010  | 248   | 99   | 110  |
| 31    | 163  | ---   | e780  | e470  | ---   | 1450  | ---    | 1440  | ---   | 210   | 99   | ---  |
| TOTAL | 8542 | 27833 | 41543 | 27218 | 47160 | 78040 | 106660 | 54639 | 46130 | 11153 | 5571 | 3274 |
| MEAN  | 276  | 928   | 1340  | 878   | 1626  | 2517  | 3555   | 1763  | 1538  | 360   | 180  | 109  |
| MAX   | 1020 | 9020  | 2860  | 1440  | 10400 | 5810  | 8210   | 5000  | 2890  | 854   | 346  | 195  |
| MIN   | 163  | 161   | 655   | 470   | 360   | 1390  | 1150   | 619   | 629   | 176   | 99   | 73   |
| CFSM  | .29  | .98   | 1.42  | .93   | 1.72  | 2.67  | 3.77   | 1.87  | 1.63  | .38   | .19  | .12  |
| IN.   | .34  | 1.10  | 1.64  | 1.07  | 1.86  | 3.08  | 4.20   | 2.15  | 1.82  | .44   | .22  | .13  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 683  | 1290 | 1490 | 1308 | 1688 | 2909 | 3249 | 1852 | 1123 | 521  | 407  | 416  |
| MAX  | 4597 | 4337 | 3860 | 4114 | 5148 | 6840 | 9683 | 3919 | 6070 | 2423 | 4096 | 4053 |
| (WY) | 1991 | 1978 | 1974 | 1996 | 1981 | 1964 | 1993 | 1960 | 1972 | 1972 | 1994 | 1975 |
| MIN  | 46.7 | 66.3 | 107  | 93.7 | 410  | 850  | 1171 | 446  | 153  | 73.4 | 51.7 | 30.4 |
| (WY) | 1964 | 1965 | 1961 | 1961 | 1987 | 1969 | 1988 | 1985 | 1991 | 1964 | 1966 | 1964 |

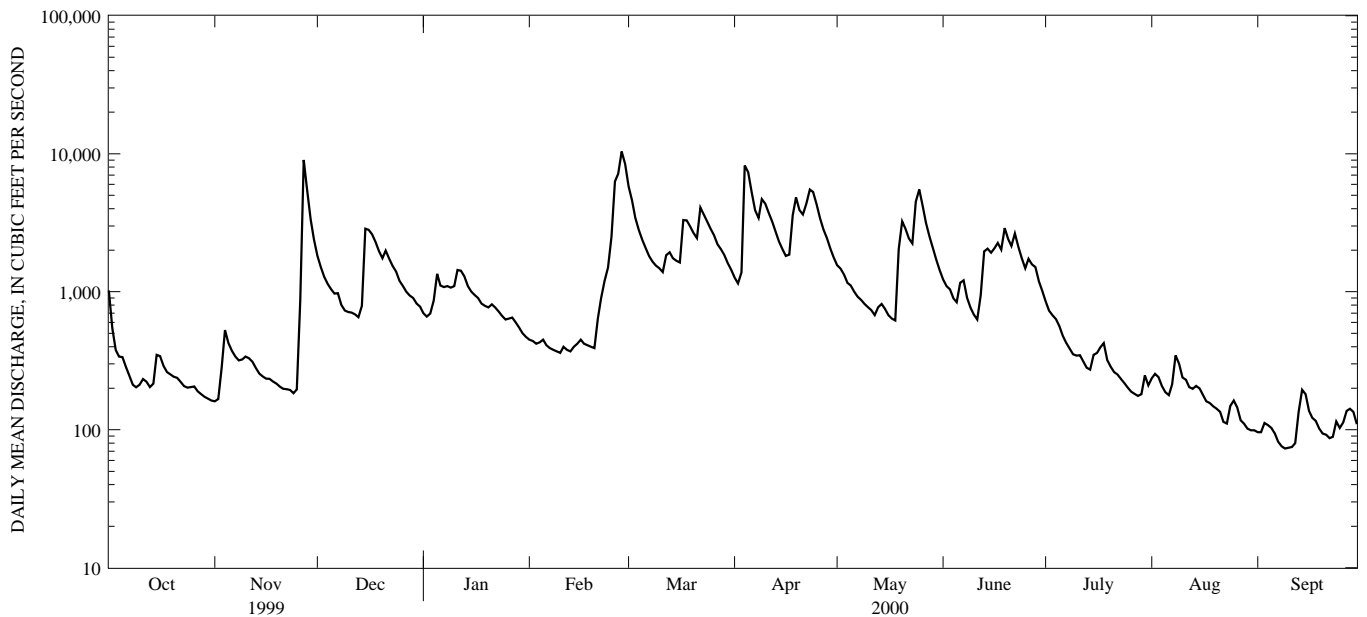
e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01549700 PINE CREEK BELOW LITTLE PINE CREEK NEAR WATERVILLE, PA--Continued

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR |        | FOR 2000 WATER YEAR |        | WATER YEARS 1958 - 2000 |             |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL             | 344752                 |        | 457763              |        |                         |             |
| ANNUAL MEAN              | 945                    |        | 1251                |        | 1408                    |             |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 2379                    | 1978        |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 739                     | 1965        |
| HIGHEST DAILY MEAN       | 9620                   | Jan 25 | 10400               | Feb 28 | 75000                   | Jun 23 1972 |
| LOWEST DAILY MEAN        | 23                     | Sep 5  | 73                  | Sep 9  | 23                      | Sep 5 1999  |
| ANNUAL SEVEN-DAY MINIMUM | 31                     | Aug 31 | 79                  | Sep 6  | 26                      | Sep 21 1964 |
| INSTANTANEOUS PEAK FLOW  |                        |        | 12200               | Apr 4  | <b>a</b> 104000         | Jun 23 1972 |
| INSTANTANEOUS PEAK STAGE |                        |        | 7.22                | Apr 4  | <b>b</b> 22.76          | Jun 23 1972 |
| ANNUAL RUNOFF (CFSM)     | 1.00                   |        | 1.32                |        | 1.49                    |             |
| ANNUAL RUNOFF (INCHES)   | 13.59                  |        | 18.04               |        | 20.27                   |             |
| 10 PERCENT EXCEEDS       | 2430                   |        | 3230                |        | 3380                    |             |
| 50 PERCENT EXCEEDS       | 329                    |        | 691                 |        | 670                     |             |
| 90 PERCENT EXCEEDS       | 68                     |        | 142                 |        | 108                     |             |

**a** From rating curve extended above 22,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.  
**b** From floodmark.



1-YEAR HYDROGRAPH  
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000