

## Monthly Mean Streamflow

Lat = 41 59 48

Cowanesque River near Lawrenceville, PA

Lon = 77 08 25

Flood Stage = 13 ft

Period of Record 1951 - 2007

Floods = INC

| YEAR | No Incomplete Data is used for Statistical Calculation - Discharge, cubic feet per second |         |         |         |         |         |         |         |         |       |       |     | Avg     |
|------|---|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-----|---------|
|      | Jan   | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct   | Nov   | Dec |         |
| 1951 | missing   | missing | missing | missing | missing | missing | missing | missing | missing | 12    | 182   | 487 | missing |
| 1952 | 886   | 409     | 1,008   | 800     | 483     | 70      | 13      | 16      | 9       | 20    | 98    | 347 | 347     |
| 1953 | 343   | 277     | 781     | 394     | 546     | 308     | 48      | 11      | 10      | 10    | 31    | 56  | 235     |
| 1954 | 84  | 235     | 506     | 592     | 465     | 335     | 13      | 3       | 6       | 28    | 27    | 163 | 205     |
| 1955 | 125   | 170     | 995     | 167     | 55      | 14      | 15      | 108     | 12      | 809   | 568   | 183 | 269     |
| 1956 | 94  | 368     | 1,381   | 1,211   | 386     | 74      | 113     | 96      | 152     | 59    | 255   | 658 | 404     |
| 1957 | 355   | 269     | 647     | 1,322   | 275     | 46      | 24      | 8       | 13      | 12    | 21    | 159 | 263     |
| 1958 | 89  | 121     | 612     | 1,934   | 479     | 193     | 118     | 42      | 87      | 56    | 111   | 77  | 326     |
| 1959 | 584   | 400     | 645     | 735     | 160     | 33      | 10      | 23      | 12      | 265   | 490   | 732 | 341     |
| 1960 | 250   | 406     | 829     | 843     | 797     | 386     | 45      | 31      | 16      | 12    | 18    | 12  | 304     |
| 1961 | 14  | 706     | 431     | 1,490   | 373     | 150     | 52      | 54      | 19      | 16    | 37    | 30  | 281     |
| 1962 | 178   | 151     | 759     | 747     | 143     | 25      | 8       | 9       | 29      | 125   | 172   | 154 | 208     |
| 1963 | 94  | 46      | 1,156   | 289     | 149     | 46      | 19      | 8       | 6       | 6     | 107   | 144 | 172     |
| 1964 | 366   | 107     | 1,909   | 612     | 235     | 33      | 9       | 7       | 3       | 3     | 8     | 25  | 276     |
| 1965 | 57  | 364     | 230     | 539     | 320     | 71      | 9       | 8       | 8       | 16    | 81    | 106 | 151     |
| 1966 | 172   | 535     | 896     | 234     | 262     | 60      | 7       | 4       | 8       | 7     | 116   | 172 | 206     |
| 1967 | 86  | 137     | 773     | 436     | 475     | 78      | 39      | 63      | 55      | 243   | 363   | 343 | 257     |
| 1968 | 137   | 198     | 486     | 306     | 636     | 345     | 82      | 24      | 36      | 17    | 280   | 219 | 230     |
| 1969 | 145   | 88      | 255     | 964     | 444     | 408     | 86      | 41      | 16      | 28    | 242   | 329 | 254     |
| 1970 | 137   | 516     | 455     | 961     | 208     | 57      | 54      | 14      | 23      | 228   | 633   | 297 | 299     |
| 1971 | 87  | 472     | 963     | 945     | 298     | 77      | 30      | 10      | 27      | 27    | 34    | 249 | 268     |
| 1972 | 307   | 73      | 1,080   | 661     | 508     | 1,366   | 195     | 30      | 19      | 32    | 199   | 860 | 444     |
| 1973 | 213   | 408     | 605     | 468     | 313     | 105     | 33      | 66      | 102     | 112   | 153   | 640 | 268     |
| 1974 | 490   | 400     | 528     | 792     | 280     | 144     | 125     | 27      | 75      | 34    | 161   | 331 | 282     |
| 1975 | 723   | 900     | 623     | 313     | 448     | 574     | 168     | 51      | 1,054   | 329   | 263   | 401 | 487     |
| 1976 | 444   | 1,173   | 566     | 234     | 269     | 881     | 89      | 71      | 28      | 303   | 141   | 141 | 362     |
| 1977 | 57  | 431     | 870     | 434     | 175     | 122     | 223     | 125     | 545     | 512   | 826   | 843 | 430     |
| 1978 | 739   | 141     | 1,188   | 860     | 728     | 90      | 42      | 119     | 33      | 74    | 61    | 152 | 352     |
| 1979 | 812   | 150     | 1,459   | 511     | 130     | 61      | 38      | 27      | 62      | 222   | 427   | 437 | 361     |
| 1980 | 115   | 58      | 882     | 845     | 223     | 48      | 17      | 13      | 5       | 21    | 51    | 109 | 199     |
| 1981 | 23  | 1,027   | 158     | 321     | 575     | 156     | 46      | 56      | 164     | 361   | 354   | 213 | 288     |
| 1982 | 211   | 343     | 975     | 496     | 103     | 1,108   | 119     | 29      | 26      | 24    | 106   | 242 | 315     |
| 1983 | 93  | 281     | 682     | 819     | 466     | 170     | 44      | 12      | 15      | 22    | 148   | 610 | 280     |
| 1984 | 48  | 967     | 524     | 1,431   | 936     | 272     | 462     | 518     | 60      | 34    | 104   | 463 | 485     |
| 1985 | 207   | 390     | 653     | 351     | 49      | 34      | 22      | 16      | 15      | 15    | 254   | 296 | 192     |
| 1986 | 403   | 543     | 729     | 504     | 87      | 213     | 87      | 39      | 24      | 135   | 228   | 395 | 282     |
| 1987 | 165   | 74      | 480     | 871     | 129     | 93      | 150     | 19      | 180     | 129   | 137   | 271 | 225     |
| 1988 | 93  | 243     | 563     | 286     | 531     | 43      | 34      | 16      | 24      | 14    | 52    | 38  | 161     |
| 1989 | 47  | 126     | 387     | 415     | 1,080   | 1,222   | 152     | 33      | 20      | 51    | 52    | 36  | 302     |
| 1990 | 267   | 842     | 182     | 456     | 357     | 72      | 148     | 46      | 134     | 1,122 | 331   | 864 | 402     |
| 1991 | 404   | 560     | 718     | 353     | 162     | 17      | 14      | 14      | 44      | 14    | 14    | 116 | 203     |
| 1992 | 206   | 115     | 605     | 928     | 184     | 70      | 180     | 247     | 315     | 184   | 661   | 594 | 357     |
| 1993 | 618   | 85      | 467     | 2,773   | 178     | 40      | 17      | 12      | 28      | 41    | 508   | 261 | 419     |
| 1994 | 127   | 446     | 1,527   | 969     | 199     | 557     | 131     | 889     | 87      | 52    | 246   | 401 | 469     |
| 1995 | 599   | 132     | 384     | 467     | 143     | 75      | 30      | 32      | 56      | 270   | 421   | 244 | 238     |
| 1996 | 1,198   | 479     | 540     | 726     | 1,115   | 38      | 29      | 15      | 297     | 413   | 1,114 | 687 | 554     |
| 1997 | 162   | 473     | 805     | 231     | 114     | 271     | 58      | 26      | 24      | 48    | 566   | 298 | 256     |
| 1998 | 1,138   | 568     | 702     | 825     | 769     | 322     | 229     | 20      | 27      | 25    | 18    | 19  | 388     |
| 1999 | 330   | 300     | 575     | 567     | 78      | 19      | 18      | 19      | 20      | 45    | 170   | 241 | 198     |
| 2000 | 195   | 660     | 452     | 701     | 498     | 530     | 40      | 55      | 30      | 82    | 58    | 147 | 287     |
| 2001 | 48  | 163     | 364     | 1,313   | 74      | 75      | 33      | 12      | 15      | 17    | 33    | 155 | 192     |

Drainage Area = 298 sq mi  
Gage Datum = 983.96 ft MSL

Chemung Basin  
Tioga County

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Floods = INC

| YEAR        | No Incomplete Data is used for Statistical Calculation - Discharge, cubic feet per second |         |         |         |         |         |         |         |         |         |         |         | Avg     |
|-------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|             | Jan   | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     |         |
| 2002        | 100   | 274     | 361     | 394     | 678     | 1,008   | 41      | 26      | 21      | 22      | 71      | 219     | 268     |
| 2003        | 218   | 131     | 1,304   | 611     | 187     | 619     | 628     | 752     | 553     | 375     | 700     | 841     | 577     |
| 2004        | 357   | 110     | 980     | 816     | 838     | 109     | 454     | 274     | 1,724   | 145     | 342     | 762     | 576     |
| 2005        | 895   | 417     | 654     | 878     | 82      | 46      | 40      | 32      | 44      | 258     | 360     | 527     | 353     |
| 2006        | 854   | 318     | 322     | 318     | 166     | 625     | 232     | 91      | 421     | missing | missing | missing | missing |
| 2007        | missing   | missing | missing | missing | missing | missing | missing | missing | missing | missing | missing | missing | missing |
|             | Jan   | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     | Avg     |
| <b>Mean</b> | 338   | 375     | 629     | 728     | 370     | 291     | 128     | 123     | 162     | 153     | 279     | 351     | 327     |
| <b>Max</b>  | 1,198   | 1,173   | 1,909   | 2,773   | 1,115   | 1,366   | 628     | 889     | 1,724   | 1,122   | 1,114   | 864     |         |
| <b>Min</b>  | 14  | 46      | 158     | 167     | 49      | 14      | 7       | 3       | 3       | 3       | 8       | 12      |         |