# 01457000 MUSCONETCONG RIVER NEAR BLOOMSBURY, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°40′20″, long 75°03′39″ referenced to North American Datum of 1983, Pohatcong Township, Warren County, NJ, Hydrologic Unit 02040105, on right bank 15 ft downstream from bridge on Limekiln Road (Person Road), 1.5 mi upstream of Bloomsbury, and 9.5 mi upstream from mouth.

DRAINAGE AREA.--141 mi$^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1903 to March 1907, July 1921 to current year.

REVISED RECORDS.--WSP 1051: 1944-45. WSP 1382: 1904-06, 1922, 1923-29(M), 1931(M), 1933-34(M), 1936(M), 1940, 1942(M), 1944-45(M), 1951-52(M). WDR NJ-82-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Sep 29, 1932. Datum of gage is 274.83 ft above NGVD of 1929. Jul 1903 to Mar 31, 1907, non-recording gage at bridge 15 ft upstream at different datum. Jul 26 to Sep 12, 1921, non-recording gage at bridge at present datum.

REMARKS.--Records good. Flow occasionally regulated by operation of gates at Lake Hopatcong (see 01455400 and 01455500). Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft$^3$/s and (or) maximum (*):

| Date | Time | Discharge (ft$^3$/s) | Gage height (ft) |
|---|---|---|---|
| Nov 23 | 0545 | 2,170 | *5.34 |
| Nov 30 | 0230 | 1,090 | 3.75 |
| Dec 8 | 0600 | 1,830 | 4.84 |
| Dec 28 | 0130 | 1,090 | 3.59 |



Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 01457000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/01457000.2012.pdf

**01457000 MUSCONETCONG RIVER NEAR BLOOMSBURY, NJ—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**
**DAILY MEAN VALUES**

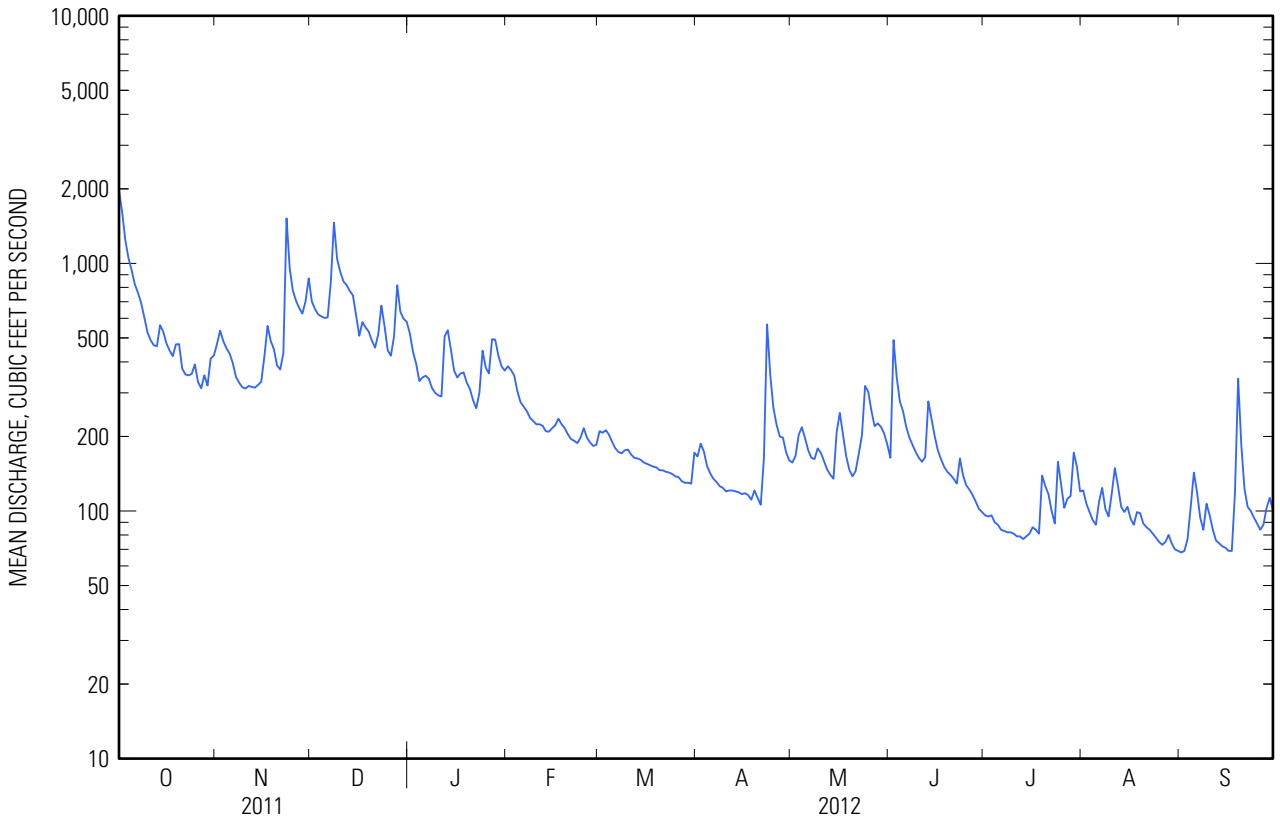
| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1,970 | 473 | 702 | 521 | 384 | 210 | 166 | 157 | 164 | 96 | 121 | 68 |
| 2 | 1,610 | 535 | 654 | 439 | 371 | 207 | 187 | 167 | 490 | 95 | 107 | 69 |
| 3 | 1,240 | 485 | 622 | 393 | 353 | 212 | 174 | 203 | 347 | 96 | 99 | 77 |
| 4 | 1,050 | 454 | 611 | 335 | 305 | 203 | 152 | 218 | 277 | 90 | 92 | 104 |
| 5 | 939 | 432 | 602 | 346 | 275 | 190 | 142 | 197 | 253 | 88 | 88 | 143 |
| 6 | 824 | 395 | 605 | 352 | 264 | 179 | 135 | 176 | 219 | 84 | 109 | 119 |
| 7 | 761 | 348 | 841 | 342 | 253 | 173 | 131 | 164 | 198 | 83 | 124 | 94 |
| 8 | 692 | 330 | 1,460 | 314 | 238 | 171 | 126 | 162 | 185 | 82 | 102 | 84 |
| 9 | 606 | 316 | 1,040 | 300 | 231 | 176 | 124 | 179 | 173 | 82 | 95 | 107 |
| 10 | 527 | 312 | 923 | 293 | 224 | 177 | 120 | 172 | 164 | 81 | 117 | 96 |
| 11 | 490 | 320 | 846 | 290 | 224 | 169 | 121 | 159 | 158 | 79 | 149 | 84 |
| 12 | 467 | 317 | 817 | 507 | 221 | 164 | 121 | 147 | 165 | 79 | 126 | 76 |
| 13 | 463 | 315 | 774 | 537 | 210 | 163 | 120 | 140 | 277 | 77 | 104 | 74 |
| 14 | 563 | 323 | 742 | 447 | 209 | 161 | 119 | 135 | 236 | 79 | 99 | 72 |
| 15 | 530 | 333 | 617 | 369 | 216 | 157 | 117 | 208 | 201 | 81 | 104 | 71 |
| 16 | 475 | 422 | 510 | 346 | 222 | 155 | 118 | 249 | 176 | 86 | 93 | 69 |
| 17 | 445 | 559 | 579 | 359 | 236 | 153 | 116 | 204 | 162 | 84 | 88 | 69 |
| 18 | 422 | 486 | 551 | 363 | 224 | 151 | 111 | 167 | 151 | 81 | 99 | 119 |
| 19 | 471 | 450 | 530 | 330 | 216 | 150 | 121 | 147 | 144 | 139 | 98 | 342 |
| 20 | 472 | 387 | 487 | 311 | 204 | 146 | 113 | 138 | 140 | 126 | 89 | 185 |
| 21 | 376 | 373 | 457 | 280 | 195 | 146 | 106 | 145 | 135 | 117 | 86 | 123 |
| 22 | 356 | 435 | 517 | 260 | 192 | 144 | 164 | 170 | 129 | 100 | 84 | 104 |
| 23 | 353 | 1,520 | 675 | 300 | 188 | 143 | 567 | 202 | 163 | 89 | 81 | 100 |
| 24 | 358 | 954 | 558 | 444 | 198 | 141 | 355 | 320 | 139 | 158 | 78 | 94 |
| 25 | 391 | 776 | 446 | 380 | 216 | 138 | 261 | 303 | 127 | 128 | 75 | 89 |
| 26 | 332 | 706 | 424 | 359 | 198 | 137 | 223 | 254 | 122 | 103 | 73 | 84 |
| 27 | 313 | 660 | 507 | 494 | 189 | 132 | 200 | 220 | 116 | 112 | 75 | 88 |
| 28 | 353 | 627 | 816 | 492 | 183 | 130 | 198 | 226 | 109 | 115 | 80 | 103 |
| 29 | 321 | 702 | 638 | 424 | 185 | 130 | 173 | 219 | 102 | 172 | 74 | 113 |
| 30 | 413 | 870 | 598 | 384 | --- | 129 | 160 | 206 | 99 | 151 | 70 | 101 |
| 31 | 424 | --- | 581 | 369 | --- | 172 | --- | 186 | --- | 120 | 69 | --- |
| **Total** | 19,007 | 15,615 | 20,730 | 11,680 | 6,824 | 5,009 | 5,041 | 5,940 | 5,521 | 3,153 | 2,948 | 3,121 |
| **Mean** | 613 | 520 | 669 | 377 | 235 | 162 | 168 | 192 | 184 | 102 | 95.1 | 104 |
| **Max** | 1,970 | 1,520 | 1,460 | 537 | 384 | 212 | 567 | 320 | 490 | 172 | 149 | 342 |
| **Min** | 313 | 312 | 424 | 260 | 183 | 129 | 106 | 135 | 99 | 77 | 69 | 68 |
| **Cfsm** | 4.35 | 3.69 | 4.74 | 2.67 | 1.67 | 1.15 | 1.19 | 1.36 | 1.31 | 0.72 | 0.67 | 0.74 |
| **In.** | 5.01 | 4.12 | 5.47 | 3.08 | 1.80 | 1.32 | 1.33 | 1.57 | 1.46 | 0.83 | 0.78 | 0.82 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2012, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mean** | 189 | 239 | 286 | 271 | 278 | 353 | 355 | 274 | 204 | 160 | 156 | 169 |
| **Max** | 770 | 701 | 980 | 924 | 582 | 935 | 1,027 | 680 | 843 | 659 | 655 | 1,318 |
| **(WY)** | (1904) | (1928) | (1997) | (1979) | (1973) | (1936) | (1983) | (1989) | (1972) | (1975) | (2011) | (2011) |
| **Min** | 41.2 | 61.2 | 57.3 | 73.7 | 77.8 | 99.9 | 103 | 98.1 | 56.8 | 38.1 | 38.5 | 37.3 |
| **(WY)** | (1964) | (1966) | (1966) | (1977) | (2002) | (2002) | (1985) | (1965) | (1965) | (1965) | (1965) | (1965) |

**01457000 MUSCONETCONG RIVER NEAR BLOOMSBURY, NJ—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2011 | | Water Year 2012 | | Water Years 1904 - 2012 | |
|---|---|---|---|---|---|---|
| **Annual total** | 199,020 | | 104,589 | | | |
| **Annual mean** | 545 | | 286 | | 245 | |
| **Highest annual mean** | | | | | 455 | 2011 |
| **Lowest annual mean** | | | | | 82.6 | 1965 |
| **Highest daily mean** | 4,420 | Aug 28 | 1,970 | Oct 1 | 5,850 | Oct 10, 1903 |
| **Lowest daily mean** | 99 | Aug 12 | 68 | Sep 1 | 27 | Sep 8, 1966 |
| **Annual seven-day minimum** | 108 | Jul 31 | 72 | Aug 27 | 32 | Aug 28, 1966 |
| **Maximum peak flow** | | | [b]2,170 | Nov 23 | [a]7,200 | Jan 25, 1979 |
| **Maximum peak stage** | | | 5.34 | Nov 23 | 8.75 | Aug 28, 2011 |
| **Instantaneous low flow** | | | 67 | Many days | 8.1 | Aug 2, 1955 |
| **Annual runoff (cfsm)** | 3.87 | | 2.03 | | 1.73 | |
| **Annual runoff (inches)** | 52.51 | | 27.59 | | 23.57 | |
| **10 percent exceeds** | 958 | | 586 | | 470 | |
| **50 percent exceeds** | 422 | | 190 | | 186 | |
| **90 percent exceeds** | 136 | | 87 | | 78 | |

[a] From rating curve extended above 1,800 ft³/s on basis of slope-area measurement at gage height 6.95 ft.
[b] Maximum discharge, 2,330 ft³/s, Oct 1, gage height, 5.51 ft, occurred on recession following peak of Sep 29, 2011; maximum independent peak discharge, 2,170 ft³/s, Nov 23, gage height, 5.34 ft.