Water-Data Report 2013

# 02131500 LYNCHES RIVER NEAR BISHOPVILLE, SC

Lower Pee Dee Basin
Lynches Subbasin

LOCATION.--Lat 34°15′00″, long 80°12′50″ referenced to North American Datum of 1927, Lee County, SC, Hydrologic Unit 03040202, near center of span on downstream side of bridge on U.S. Highway 15, 1.0 mi upsteam from Seaboard Coast Line Railroad bridge, 2.9 mi northeast of Bishopville, 3.0 mi downstream from Bells Branch, and at river mile 89.5.

DRAINAGE AREA.--675 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1942 to current year.

GAGE.--Data collection platform. Datum of gage is 155.59 ft above NGVD of 1929. Prior to June 11, 1948, nonrecording gage at site 100 ft upstream at same datum. June 11, 1948 to December 15, 1954, nonrecording gage at present site and datum. September 1971 to February 2002, nonrecording gage at present site and datum.

REMARKS.--Records good.

REVISIONS.--The maximum discharge for the water year 2002 has been revised to 1,220 ft cfs, Feb. 10, 2002, gage height, 9.69 ft.



Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 02131500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/02131500.2013.pdf

**02131500 LYNCHES RIVER NEAR BISHOPVILLE, SC—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 245 | 180 | 235 | 739 | 539 | 1,640 | 447 | 1,460 | 195 | 476 | 542 | 394 |
| 2 | 367 | 177 | 245 | 646 | 606 | 1,740 | 525 | 1,730 | 188 | 1,040 | 594 | 390 |
| 3 | 630 | 175 | 244 | 742 | 432 | 1,150 | 608 | 1,890 | 187 | 1,470 | 605 | 382 |
| 4 | 905 | 170 | 239 | 882 | 376 | 691 | 537 | 960 | 346 | 1,720 | 500 | 387 |
| 5 | 575 | 169 | 223 | 654 | 355 | 577 | 773 | 568 | 479 | 1,990 | 431 | 356 |
| 6 | 418 | 170 | 214 | 532 | 359 | 500 | 1,230 | 547 | 487 | 2,930 | 386 | 320 |
| 7 | 326 | 174 | 212 | 473 | 350 | 485 | 1,400 | 780 | 755 | 2,740 | 515 | 293 |
| 8 | 286 | 179 | 210 | 441 | 458 | 480 | 879 | 1,060 | 1,250 | 2,330 | 1,150 | 277 |
| 9 | 290 | 182 | 210 | 416 | 653 | 444 | 650 | 683 | 1,550 | 2,260 | 1,480 | 263 |
| 10 | 334 | 182 | 211 | 401 | 716 | 420 | 558 | 504 | 1,850 | 2,140 | 1,760 | 253 |
| 11 | 314 | 182 | 216 | 374 | 586 | 402 | 486 | 404 | 2,110 | 1,890 | 1,180 | 245 |
| 12 | 275 | 182 | 210 | 372 | 647 | 407 | 466 | 364 | 1,510 | 1,810 | 549 | 237 |
| 13 | 250 | 179 | 260 | 350 | 764 | 480 | 550 | 338 | 758 | 1,790 | 451 | 231 |
| 14 | 235 | 189 | 505 | 334 | 705 | 608 | 591 | 308 | 519 | 1,880 | 623 | 226 |
| 15 | 225 | 218 | 634 | 339 | 656 | 491 | 500 | 267 | 439 | 2,490 | 576 | 219 |
| 16 | 213 | 290 | 467 | 345 | 559 | 424 | 442 | 247 | 374 | 2,970 | 469 | 200 |
| 17 | 219 | 460 | 383 | 348 | 537 | 398 | 410 | 239 | 314 | 2,680 | 715 | 188 |
| 18 | 216 | 408 | 761 | 638 | 596 | 377 | 385 | 238 | 310 | 2,380 | 1,100 | 186 |
| 19 | 219 | 321 | 1,200 | 1,190 | 586 | 378 | 372 | 245 | 840 | 1,660 | 1,380 | 183 |
| 20 | 235 | 280 | 1,060 | 1,470 | 580 | 421 | 382 | 326 | 1,040 | 924 | 1,490 | 186 |
| 21 | 252 | 262 | 629 | 1,700 | 625 | 472 | 558 | 1,020 | 762 | 727 | 1,620 | 195 |
| 22 | 232 | 232 | 531 | 1,550 | 587 | 395 | 537 | 976 | 490 | 745 | 1,800 | 199 |
| 23 | 215 | 216 | 502 | 673 | 653 | 361 | 420 | 604 | 380 | 817 | 1,930 | 296 |
| 24 | 201 | 209 | 407 | 504 | 1,040 | 459 | 377 | 481 | 377 | 636 | 1,830 | 379 |
| 25 | 190 | 206 | 373 | 472 | 1,360 | 810 | 350 | 489 | 511 | 521 | 1,180 | 326 |
| 26 | 187 | 204 | 417 | 462 | 1,480 | 1,260 | 331 | 362 | 827 | 479 | 645 | 285 |
| 27 | 187 | 205 | 708 | 432 | 1,360 | 1,230 | 299 | 289 | 769 | 500 | 519 | 281 |
| 28 | 201 | 212 | 1,240 | 383 | 1,450 | 728 | 283 | 250 | 576 | 543 | 463 | 281 |
| 29 | 201 | 228 | 1,390 | 362 | --- | 574 | 373 | 231 | 541 | 998 | 437 | 235 |
| 30 | 199 | 238 | 988 | 356 | --- | 477 | 1,030 | 217 | 459 | 996 | 418 | 209 |
| 31 | 190 | --- | 1,030 | 384 | --- | 436 | --- | 205 | --- | 654 | 408 | --- |
| Total | 9,032 | 6,679 | 16,154 | 18,964 | 19,615 | 19,715 | 16,749 | 18,282 | 21,193 | 47,186 | 27,746 | 8,102 |
| Mean | 291 | 223 | 521 | 612 | 701 | 636 | 558 | 590 | 706 | 1,522 | 895 | 270 |
| Max | 905 | 460 | 1,390 | 1,700 | 1,480 | 1,740 | 1,400 | 1,890 | 2,110 | 2,970 | 1,930 | 394 |
| Min | 187 | 169 | 210 | 334 | 350 | 361 | 283 | 205 | 187 | 476 | 386 | 183 |
| Cfsm | 0.43 | 0.33 | 0.77 | 0.91 | 1.04 | 0.94 | 0.83 | 0.87 | 1.05 | 2.26 | 1.33 | 0.40 |
| In. | 0.50 | 0.37 | 0.89 | 1.05 | 1.08 | 1.09 | 0.92 | 1.01 | 1.17 | 2.60 | 1.53 | 0.45 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2013, BY WATER YEAR (WY)**

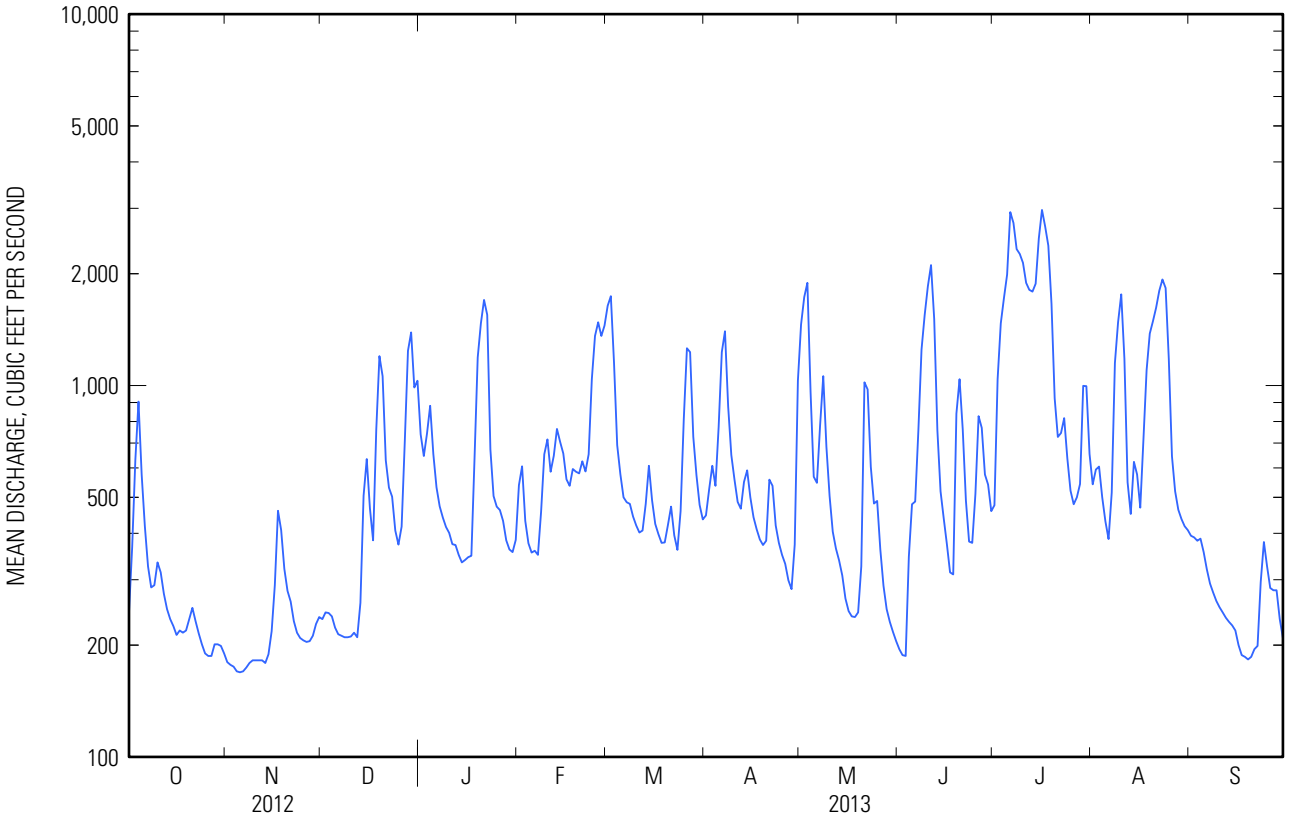
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 459 | 546 | 681 | 919 | 1,108 | 1,226 | 957 | 568 | 437 | 462 | 515 | 518 |
| Max | 2,242 | 1,751 | 2,005 | 2,169 | 2,738 | 2,385 | 2,199 | 1,518 | 1,229 | 1,522 | 2,004 | 3,498 |
| (WY) | (1965) | (1949) | (1949) | (1968) | (1960) | (2003) | (1960) | (1949) | (1969) | (2013) | (1971) | (1945) |
| Min | 143 | 154 | 242 | 308 | 345 | 368 | 259 | 196 | 105 | 91.2 | 88.3 | 104 |
| (WY) | (2008) | (2008) | (2012) | (2011) | (2012) | (2006) | (2006) | (2002) | (2002) | (2002) | (2002) | (2009) |

**02131500 LYNCHES RIVER NEAR BISHOPVILLE, SC—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2012 | | Water Year 2013 | | Water Years 1943 - 2013 | |
|---|---|---|---|---|---|---|
| **Annual total** | 135,789 | | 229,417 | | | |
| **Annual mean** | 371 | | 629 | | 704 | |
| **Highest annual mean** | | | | | 1,215 | 1965 |
| **Lowest annual mean** | | | | | 297 | 2011 |
| **Highest daily mean** | 2,300 | Sep 21 | 2,970 | Jul 16 | 27,300 | Sep 19, 1945 |
| **Lowest daily mean** | 109 | Jul 7 | 169 | Nov 5 | 33 | Aug 13, 2002 |
| **Annual seven-day minimum** | 113 | Jul 4 | 173 | Nov 2 | 40 | Aug 8, 2002 |
| **Maximum peak flow** | | | 3,110 | Jul 6 | [a]29,400 | Sep 19, 1945 |
| **Maximum peak stage** | | | 13.13 | Jul 6 | [b]22.35 | Sep 19, 1945 |
| **Annual runoff (cfsm)** | 0.550 | | 0.931 | | 1.04 | |
| **Annual runoff (inches)** | 7.48 | | 12.64 | | 14.18 | |
| **10 percent exceeds** | 676 | | 1,460 | | 1,400 | |
| **50 percent exceeds** | 276 | | 459 | | 468 | |
| **90 percent exceeds** | 176 | | 208 | | 199 | |

[a] From rating curve extended above 12,000 cfs by velocity-area studies.
[b] From floodmarks.



**02131500 LYNCHES RIVER NEAR BISHOPVILLE, SC—Continued**

## CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--September 2004 to current year.

INSTRUMENTATION.--Tipping bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

**PRECIPITATION, TOTAL, INCHES**
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**
**DAILY SUM VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.10 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.42 | 0.01 | 0.00 | 1.23 | 0.01 | 1.04 |
| 2 | 0.03 | 0.00 | 0.00 | 0.20 | 0.00 | 0.01 | 0.00 | 0.05 | 0.02 | 0.91 | 0.00 | 0.20 |
| 3 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 | 0.31 | 0.35 | 0.00 | 0.63 |
| 4 | 0.05 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 1.18 | 0.00 | 0.12 | 0.80 | 0.00 | 0.00 |
| 5 | 0.00 | 0.01 | 0.11 | 0.00 | 0.00 | 0.04 | 0.01 | 0.31 | 0.07 | 1.12 | 0.00 | 0.00 |
| 6 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.01 | 0.00 | 0.38 | 0.79 | 0.02 | 0.49 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | 0.00 | 1.35 | 0.00 | 0.00 | 0.00 | 1.58 | 0.19 | 0.00 | 0.00 |
| 8 | 0.56 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.28 | 0.00 | 0.00 |
| 10 | 0.00 | 0.00 | 0.00 | 0.02 | 0.11 | 0.00 | 0.00 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 |
| 11 | 0.00 | 0.00 | 0.00 | 0.09 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.88 | 0.00 | 0.00 |
| 12 | 0.00 | 0.01 | 0.55 | 0.00 | 0.21 | 0.40 | 0.18 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 |
| 13 | 0.00 | 0.08 | 0.51 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.13 | 0.30 | 0.00 | 0.00 |
| 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.40 | 0.00 | 0.00 |
| 15 | 0.00 | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 | 0.00 |
| 16 | 0.00 | 0.00 | 0.07 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.62 | 0.00 |
| 17 | 0.00 | 0.00 | 0.61 | 0.90 | 0.29 | 0.00 | 0.00 | 0.00 | 0.40 | 0.20 | 0.54 | 0.00 |
| 18 | 0.00 | 0.07 | 0.00 | 0.01 | 0.00 | 0.40 | 0.00 | 0.17 | 0.35 | 0.00 | 0.03 | 0.00 |
| 19 | 0.10 | 0.00 | 0.00 | 0.00 | 0.21 | 0.00 | 0.52 | 0.26 | 0.05 | 0.00 | 1.22 | 0.00 |
| 20 | 0.00 | 0.00 | 0.43 | 0.00 | 0.01 | 0.00 | 0.02 | 0.20 | 0.00 | 0.00 | 0.26 | 0.00 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.46 | 0.06 | 0.15 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 0.31 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 |
| 24 | 0.00 | 0.00 | 0.15 | 0.00 | 0.02 | 1.17 | 0.00 | 0.00 | 0.36 | 0.02 | 0.00 | 0.00 |
| 25 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 |
| 26 | 0.00 | 0.00 | 0.44 | 0.02 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.12 | 1.18 | 0.00 | 0.00 |
| 28 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 0.00 | 0.00 | 0.48 | 0.00 | --- | 0.00 | 0.71 | 0.00 | --- | 0.00 | 0.01 | 0.00 |
| 30 | 0.00 | 0.00 | 0.00 | 0.24 | --- | 0.00 | 0.36 | 0.00 | --- | 0.00 | 0.00 | 0.00 |
| 31 | 0.00 | --- | 0.00 | 0.09 | --- | 0.08 | --- | 0.00 | --- | 0.30 | 0.00 | --- |
| Total | 0.84 | 1.41 | 3.39 | 1.73 | 5.06 | 2.42 | 4.01 | 1.39 | --- | 10.05 | 4.25 | 2.35 |