

Water-Data Report 2007

02134170 LUMBER RIVER AT LUMBERTON, NC

Lower Pee Dee Basin
Lumber Subbasin

LOCATION.--Lat 34°37'13", long 79°00'40" referenced to North American Datum of 1983, Robeson County, NC, Hydrologic Unit 03040203, on right bank upstream of bridge on Fifth Street in Lumberton and 1.0 mi below Saddletree Swamp.

DRAINAGE AREA.--708 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional measurements water years 1954, 1959, 1967. July 2000 to current year.

REVISED RECORDS.--WDR NC-04-1: 2003(M)

GAGE.--Water-stage recorder. Elevation of gage is 110 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred August 14, 2002. Minimum discharge for current water year also occurred on August 23, 25.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 1 | 251 | 413 | 2,390 | 2,170 | 1,210 | 780 | 687 | 611 | 211 | 181 | 130 | 175 |
| 2 | 240 | 426 | 2,030 | 2,070 | 1,460 | 901 | 658 | 555 | 201 | 182 | 130 | 153 |
| 3 | 255 | 433 | 1,770 | 1,890 | 1,700 | 1,060 | 634 | 510 | 271 | 180 | 127 | 154 |
| 4 | 277 | 437 | 1,590 | 1,680 | 1,690 | 1,150 | 617 | 480 | 284 | 180 | 124 | 155 |
| 5 | 289 | 435 | 1,430 | 1,480 | 1,570 | 1,180 | 609 | 458 | 310 | 189 | 132 | 153 |
| 6 | 275 | 398 | 1,310 | 1,430 | 1,480 | 1,200 | 611 | 447 | 336 | 206 | 123 | 140 |
| 7 | 250 | 458 | 1,220 | 1,440 | 1,430 | 1,250 | 609 | 419 | 356 | 221 | 113 | 134 |
| 8 | 236 | 630 | 1,160 | 1,490 | 1,390 | 1,300 | 625 | 399 | 377 | 226 | 106 | 118 |
| 9 | 237 | 663 | 1,130 | 1,570 | 1,340 | 1,340 | 654 | 393 | 398 | 172 | 100 | 115 |
| 10 | 252 | 678 | 1,110 | 1,570 | 1,280 | 1,330 | 650 | 427 | 360 | 171 | 97 | 104 |
| 11 | 253 | 655 | 1,080 | 1,550 | 1,200 | 1,250 | 626 | 444 | 299 | 169 | 95 | 100 |
| 12 | 247 | 678 | 1,040 | 1,540 | 1,120 | 1,140 | 622 | 473 | 267 | 172 | 91 | 101 |
| 13 | 256 | 717 | 985 | 1,540 | 1,030 | 1,000 | 605 | 664 | 282 | 169 | 89 | 96 |
| 14 | 255 | 762 | 927 | 1,550 | 1,000 | 889 | 606 | 622 | 314 | 159 | 86 | 91 |
| 15 | 245 | 813 | 882 | 1,550 | 993 | 808 | 832 | 595 | 267 | 165 | 82 | 192 |
| 16 | 231 | 1,130 | 839 | 1,490 | 981 | 778 | 1,320 | 570 | 254 | 182 | 80 | 225 |
| 17 | 230 | 1,380 | 798 | 1,400 | 978 | 816 | 1,560 | 585 | 248 | 196 | 79 | 181 |
| 18 | 245 | 1,280 | 771 | 1,310 | 988 | 837 | 1,570 | 599 | 245 | 185 | 79 | 154 |
| 19 | 244 | 1,180 | 747 | 1,270 | 1,030 | 875 | 1,550 | 599 | 234 | 170 | 74 | 170 |
| 20 | 258 | 1,100 | 726 | 1,210 | 1,090 | 976 | 1,550 | 586 | 231 | 168 | 76 | 189 |
| 21 | 274 | 1,080 | 708 | 1,140 | 1,150 | 1,200 | 1,500 | 562 | 221 | 190 | 72 | 193 |
| 22 | 316 | 1,930 | 740 | 1,240 | 1,170 | 1,430 | 1,450 | 511 | 217 | 212 | 83 | 175 |
| 23 | 355 | 3,450 | 961 | 1,390 | 1,140 | 1,550 | 1,400 | 451 | 213 | 207 | 91 | 161 |
| 24 | 375 | 3,630 | 1,030 | 1,470 | 1,050 | 1,560 | 1,330 | 377 | 211 | 185 | 92 | 146 |
| 25 | 389 | 3,230 | 1,170 | 1,460 | 949 | 1,450 | 1,220 | 332 | 204 | 168 | 74 | 142 |
| 26 | 370 | 3,010 | 1,850 | 1,420 | 897 | 1,290 | 1,070 | 304 | 190 | 168 | 81 | 142 |
| 27 | 352 | 3,020 | 2,080 | 1,380 | 840 | 1,110 | 954 | 284 | 194 | 146 | 216 | 138 |
| 28 | 422 | 3,080 | 2,130 | 1,360 | 800 | 956 | 890 | 269 | 184 | 134 | 181 | 135 |
| 29 | 406 | 3,070 | 2,130 | 1,340 | --- | 848 | 782 | 251 | 176 | 131 | 183 | 127 |
| 30 | 403 | 2,800 | 2,130 | 1,290 | --- | 774 | 683 | 235 | 178 | 130 | 188 | 120 |
| 31 | 400 | --- | 2,170 | 1,220 | --- | 722 | --- | 221 | --- | 130 | 173 | --- |
| Total | 9,088 | 42,966 | 41,034 | 45,910 | 32,956 | 33,750 | 28,474 | 14,233 | 7,733 | 5,444 | 3,447 | 4,379 |
| Mean | 293 | 1,432 | 1,324 | 1,481 | 1,177 | 1,089 | 949 | 459 | 258 | 176 | 111 | 146 |
| Max | 422 | 3,630 | 2,390 | 2,170 | 1,700 | 1,560 | 1,570 | 664 | 398 | 226 | 216 | 225 |
| Min | 230 | 398 | 708 | 1,140 | 800 | 722 | 605 | 221 | 176 | 130 | 72 | 91 |
| Cfsm | 0.41 | 2.02 | 1.87 | 2.09 | 1.66 | 1.54 | 1.34 | 0.65 | 0.36 | 0.25 | 0.16 | 0.21 |
| In. | 0.48 | 2.26 | 2.16 | 2.41 | 1.73 | 1.77 | 1.50 | 0.75 | 0.41 | 0.29 | 0.18 | 0.23 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2007, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 498 | 659 | 877 | 850 | 896 | 1,043 | 866 | 515 | 595 | 471 | 504 | 797 |
| Max | 933 | 1,432 | 1,328 | 1,481 | 1,228 | 1,905 | 1,638 | 1,207 | 1,292 | 1,311 | 1,696 | 2,915 |
| (WY) | (2004) | (2007) | (2006) | (2007) | (2004) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2004) |
| Min | 255 | 222 | 286 | 551 | 681 | 499 | 324 | 179 | 89.7 | 79.0 | 84.7 | 146 |
| (WY) | (2002) | (2002) | (2002) | (2002) | (2002) | (2002) | (2006) | (2002) | (2002) | (2002) | (2002) | (2007) |

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SUMMARY STATISTICS

| | Calendar Year 2006 | | Water Year 2007 | | Water Years 2000 - 2007 | |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| Annual total | 266,684 | | 269,414 | | | |
| Annual mean | 731 | | 738 | | 710 | |
| Highest annual mean | | | | | 1,153 | 2003 |
| Lowest annual mean | | | | | 301 | 2002 |
| Highest daily mean | 3,630 | Nov 24 | 3,630 | Nov 24 | 7,030 | Sep 11, 2004 |
| Lowest daily mean | 171 | Jun 6 | 72 | Aug 21 | 51 | Aug 13, 2002 |
| Annual seven-day minimum | 184 | Jun 2 | 77 | Aug 15 | 55 | Aug 11, 2002 |
| Maximum peak flow | | | 3,780 | Nov 24 | 7,420 | Sep 11, 2004 |
| Maximum peak stage | | | 15.90 | Nov 24 | 18.29 | Sep 11, 2004 |
| Instantaneous low flow | | | ^a 71 | Aug 21 | ^a 51 | Aug 13, 2002 |
| Annual runoff (cfsm) | 1.03 | | 1.04 | | 1.00 | |
| Annual runoff (inches) | 14.01 | | 14.16 | | 13.63 | |
| 10 percent exceeds | 1,290 | | 1,550 | | 1,400 | |
| 50 percent exceeds | 546 | | 570 | | 578 | |
| 90 percent exceeds | 247 | | 131 | | 177 | |

^a See Remarks.

