

NEUSE RIVER BASIN

02091500 CONTENTNEA CREEK AT HOOKERTON, NC

LOCATION.--Lat 35°25'44", long 77°34'59", Greene County, Hydrologic Unit 03020203, on left bank at bridge on State Highway 123 at Hookerton, and 2.2 mi upstream from Wheat Swamp Creek.

DRAINAGE AREA.--733 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1928 to current year.

REVISED RECORDS.--WSP 1333: 1903-35. WSP 1383: Drainage area. WSP 1503: 1951. WSP 1723: 1932. WDR NC-90-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.85 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Nov. 26, 1934, nonrecording gage at site 1,400 ft upstream and Nov. 27, 1934, to Sept. 30, 1987, water-stage recorder at site 0.3 mi upstream at present datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Buckhorn Reservoir (station 02090370) since September 1976. Maximum gage height for period of record from high-water mark inside gage house.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1928 reached a stage of 23.3 ft, from floodmark; high water of autumn 1924 was about 0.1 ft lower, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|-------|-------|-------|-------|-------|------|-------|------|-------|------|
| 1 | 1610 | 171 | 699 | 403 | 360 | 709 | 2090 | 505 | 509 | 306 | 806 | 266 |
| 2 | 1860 | 171 | 664 | 392 | 361 | 671 | 2110 | 431 | 651 | 276 | 744 | 327 |
| 3 | 2010 | 171 | 594 | 385 | 360 | 622 | 2450 | 363 | 786 | 243 | 580 | 375 |
| 4 | 2020 | 170 | 544 | 381 | 359 | 617 | 2900 | 313 | 850 | 216 | 429 | 314 |
| 5 | 1900 | 170 | 519 | 366 | 376 | 684 | 3140 | 275 | 822 | 217 | 339 | 278 |
| 6 | 1650 | 169 | 519 | 354 | 417 | 774 | 3260 | 241 | 771 | 316 | 268 | 248 |
| 7 | 1200 | 167 | 534 | 350 | 456 | 856 | 3320 | 216 | 710 | 471 | 218 | 224 |
| 8 | 815 | 165 | 544 | 345 | 474 | 938 | 3280 | 198 | 603 | 527 | 182 | 203 |
| 9 | 543 | 164 | 536 | 343 | 474 | 1010 | 3130 | 183 | 468 | 558 | 156 | 190 |
| 10 | 434 | 164 | 508 | 347 | 467 | 1070 | 2800 | 166 | 365 | 580 | 133 | 193 |
| 11 | 374 | 162 | 483 | 358 | 449 | 1060 | 2320 | 153 | 297 | 531 | 116 | 210 |
| 12 | 342 | 163 | 473 | 368 | 425 | 936 | 1820 | 146 | 247 | 430 | 115 | 281 |
| 13 | 323 | 164 | 454 | 381 | 410 | 760 | 1330 | 150 | 209 | 336 | 361 | 292 |
| 14 | 314 | 176 | 435 | 386 | 407 | 630 | 994 | 137 | 320 | 271 | 717 | 263 |
| 15 | 299 | 212 | 426 | 379 | 409 | 577 | 772 | 124 | 1020 | 223 | 930 | 259 |
| 16 | 272 | 234 | 441 | 375 | 420 | 577 | 680 | 119 | 1220 | 188 | 1060 | 266 |
| 17 | 247 | 252 | 460 | 374 | 465 | 610 | 592 | 119 | 1190 | 160 | 1160 | 251 |
| 18 | 238 | 252 | 461 | 373 | 548 | 660 | 531 | 121 | 1340 | 141 | 1260 | 221 |
| 19 | 231 | 257 | 477 | 363 | 630 | 682 | 496 | 130 | 1530 | 148 | 1380 | 192 |
| 20 | 234 | 294 | 525 | 366 | 684 | 679 | 475 | 142 | 1620 | 127 | 1360 | 171 |
| 21 | 228 | 324 | 625 | 381 | 710 | 1010 | 450 | 168 | 1680 | 113 | 1230 | 158 |
| 22 | 207 | 356 | 737 | 396 | 736 | 1240 | 418 | 191 | 1750 | 103 | 937 | 140 |
| 23 | 192 | 362 | 805 | 418 | 797 | 1480 | 376 | 214 | 1830 | 102 | 680 | 131 |
| 24 | 188 | 360 | 803 | 446 | 825 | 1870 | 340 | 208 | 1920 | 94 | 510 | 128 |
| 25 | 192 | 372 | 726 | 482 | 821 | 2380 | 319 | 198 | 1740 | 91 | 390 | 155 |
| 26 | 193 | 420 | 629 | 492 | 802 | 2850 | 319 | 218 | 1170 | 89 | 340 | 247 |
| 27 | 192 | 524 | 550 | 476 | 770 | 3130 | 379 | 394 | 768 | 114 | 303 | 398 |
| 28 | 188 | 603 | 494 | 446 | 739 | 3170 | 473 | 567 | 545 | 158 | 275 | 400 |
| 29 | 182 | 643 | 460 | 412 | --- | 3000 | 529 | 594 | 389 | 333 | 261 | 349 |
| 30 | 177 | 683 | 436 | 383 | --- | 2690 | 545 | 550 | 332 | 886 | 277 | 314 |
| 31 | 173 | --- | 416 | 372 | --- | 2300 | --- | 531 | --- | 865 | 281 | --- |
| TOTAL | 19028 | 8495 | 16977 | 12093 | 15151 | 40242 | 42638 | 8065 | 27652 | 9213 | 17798 | 7444 |
| MEAN | 614 | 283 | 548 | 390 | 541 | 1298 | 1421 | 260 | 922 | 297 | 574 | 248 |
| MAX | 2020 | 683 | 805 | 492 | 825 | 3170 | 3320 | 594 | 1920 | 886 | 1380 | 400 |
| MIN | 173 | 162 | 416 | 343 | 359 | 577 | 319 | 119 | 209 | 89 | 115 | 128 |
| CFSM | .84 | .39 | .75 | .53 | .74 | 1.77 | 1.94 | .35 | 1.26 | .41 | .78 | .34 |
| IN. | .97 | .43 | .86 | .61 | .77 | 2.04 | 2.16 | .41 | 1.40 | .47 | .90 | .38 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 513 | 463 | 679 | 1126 | 1390 | 1448 | 1029 | 580 | 462 | 547 | 626 | 634 |
| MAX | 4798 | 2150 | 2349 | 2626 | 4316 | 3491 | 2752 | 3363 | 1770 | 2203 | 2422 | 8825 |
| (WY) | 2000 | 1948 | 1949 | 1993 | 1948 | 1989 | 1989 | 1989 | 1995 | 1929 | 1960 | 1999 |
| MIN | 20.3 | 41.1 | 64.7 | 92.5 | 239 | 382 | 202 | 82.9 | 38.5 | 63.3 | 37.2 | 24.9 |
| (WY) | 1955 | 1955 | 1934 | 1934 | 1934 | 1981 | 1986 | 1986 | 1986 | 1952 | 1954 | 1954 |

| SUMMARY STATISTICS | FOR 2000 CALENDAR YEAR | FOR 2001 WATER YEAR | WATER YEARS 1929 - 2001 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 280829 | 224796 | |
| ANNUAL MEAN | 767 | 616 | 779 |
| HIGHEST ANNUAL MEAN | | | 1422 |
| LOWEST ANNUAL MEAN | | | 242 |
| HIGHEST DAILY MEAN | 3500 | 3320 | 31500 |
| LOWEST DAILY MEAN | 141 | 89 | 15 |
| ANNUAL SEVEN-DAY MINIMUM | 163 | 101 | 16 |
| MAXIMUM PEAK FLOW | | 3360 | 31900 |
| MAXIMUM PEAK STAGE | | 13.43 | 28.28* |
| INSTANTANEOUS LOW FLOW | | 88 | 15 |
| ANNUAL RUNOFF (CFSM) | 1.05 | .84 | 1.06 |
| ANNUAL RUNOFF (INCHES) | 14.25 | 11.41 | 14.43 |
| 10 PERCENT EXCEEDS | 1830 | 1350 | 1920 |
| 50 PERCENT EXCEEDS | 544 | 409 | 447 |
| 90 PERCENT EXCEEDS | 179 | 165 | 87 |

* See REMARKS.

02091500 CONTENTINEA CREEK AT HOOKERTON, NC--Continued

