

02091500 CONTENTNEA CREEK AT HOOKERTON, NC

LOCATION.--Lat 35°25'44", long 77°34'57", 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 NGVD of 1929 (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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 527 | 1,810 | 521 | 852 | 695 | 1,180 | 411 | 312 | 268 | 439 | 187 | 477 |
| 2 | 468 | 1,990 | 514 | 776 | 704 | 1,230 | 419 | 380 | 217 | 472 | 188 | 830 |
| 3 | 415 | 2,180 | 491 | 724 | 712 | 1,250 | 435 | 884 | 182 | 570 | 199 | 1,050 |
| 4 | 371 | 2,190 | 460 | 679 | 732 | 1,260 | 442 | 1,580 | 183 | 682 | 172 | 1,360 |
| 5 | 336 | 2,010 | 483 | 652 | 770 | 1,230 | 431 | 1,900 | 246 | 778 | 180 | 1,900 |
| 6 | 309 | 1,690 | 557 | 654 | 805 | 1,160 | 410 | 2,340 | 531 | 930 | 172 | 2,580 |
| 7 | 290 | 1,400 | 655 | 650 | 849 | 1,060 | 396 | 3,000 | 813 | 1,040 | 161 | 3,050 |
| 8 | 276 | 1,090 | 721 | 650 | 885 | 942 | 378 | 3,380 | 970 | 1,020 | 235 | 3,040 |
| 9 | 324 | 967 | 745 | 654 | 897 | 834 | 336 | 3,310 | 1,160 | 696 | 242 | 2,780 |
| 10 | 405 | 847 | 744 | 655 | 907 | 764 | 296 | 2,900 | 1,300 | 465 | 187 | 2,320 |
| 11 | 470 | 760 | 1,030 | 647 | 934 | 720 | 285 | 2,070 | 1,310 | 445 | 139 | 1,810 |
| 12 | 482 | 685 | 1,190 | 625 | 987 | 678 | 338 | 1,340 | 975 | 582 | 112 | 1,490 |
| 13 | 456 | 616 | 1,410 | 602 | 1,060 | 629 | 441 | 813 | 604 | 527 | 126 | 1,400 |
| 14 | 438 | 549 | 1,960 | 596 | 1,110 | 582 | 746 | 511 | 429 | 407 | 450 | 1,490 |
| 15 | 440 | 498 | 2,610 | 594 | 1,190 | 540 | 874 | 395 | 360 | 338 | 1,580 | 1,630 |
| 16 | 443 | 474 | 3,150 | 574 | 1,330 | 502 | 917 | 329 | 302 | 292 | 1,510 | 1,700 |
| 17 | 449 | 467 | 3,450 | 558 | 1,430 | 512 | 964 | 287 | 272 | 235 | 1,520 | 1,570 |
| 18 | 445 | 431 | 3,640 | 549 | 1,510 | 601 | 1,010 | 257 | 261 | 189 | 1,520 | 1,270 |
| 19 | 426 | 403 | 3,730 | 552 | 1,540 | 725 | 1,030 | 227 | 306 | 159 | 1,570 | 1,020 |
| 20 | 390 | 541 | 3,630 | 556 | 1,550 | 845 | 878 | 203 | 296 | 136 | 1,690 | 904 |
| 21 | 360 | 743 | 3,390 | 561 | 1,550 | 955 | 653 | 188 | 258 | 119 | 1,760 | 841 |
| 22 | 340 | 865 | 3,050 | 561 | 1,520 | 1,030 | 483 | 177 | 220 | 108 | 1,690 | 805 |
| 23 | 322 | 975 | 2,620 | 549 | 1,430 | 1,060 | 395 | 170 | 186 | 106 | 1,400 | 766 |
| 24 | 305 | 1,040 | 2,150 | 526 | 1,300 | 1,020 | 331 | 266 | 186 | 133 | 1,040 | 708 |
| 25 | 286 | 1,060 | 1,720 | 500 | 1,150 | 859 | 289 | 625 | 191 | 236 | 645 | 610 |
| 26 | 279 | 1,010 | 1,430 | 489 | 999 | 697 | 262 | 903 | 186 | 253 | 417 | 496 |
| 27 | 276 | 829 | 1,270 | 490 | 946 | 591 | 302 | 1,170 | 183 | 198 | 348 | 420 |
| 28 | 276 | 688 | 1,180 | 512 | 1,050 | 506 | 332 | 1,280 | 303 | 159 | 299 | 410 |
| 29 | 1,010 | 616 | 1,120 | 556 | 1,130 | 462 | 334 | 1,100 | 478 | 138 | 258 | 400 |
| 30 | 1,410 | 547 | 1,050 | 612 | --- | 435 | 319 | 652 | 462 | 129 | 236 | 396 |
| 31 | 1,600 | --- | 951 | 663 | --- | 417 | --- | 363 | --- | 153 | 265 | --- |
| TOTAL | 14,624 | 29,971 | 51,622 | 18,818 | 31,672 | 25,276 | 15,137 | 33,312 | 13,638 | 12,134 | 20,498 | 39,523 |
| MEAN | 472 | 999 | 1,665 | 607 | 1,092 | 815 | 505 | 1,075 | 455 | 391 | 661 | 1,317 |
| MAX | 1,600 | 2,190 | 3,730 | 852 | 1,550 | 1,260 | 1,030 | 3,380 | 1,310 | 1,040 | 1,760 | 3,050 |
| MIN | 276 | 403 | 460 | 489 | 695 | 417 | 262 | 170 | 182 | 106 | 112 | 396 |
| CFSM | 0.64 | 1.36 | 2.27 | 0.83 | 1.49 | 1.11 | 0.69 | 1.47 | 0.62 | 0.53 | 0.90 | 1.80 |
| IN. | 0.74 | 1.52 | 2.62 | 0.96 | 1.61 | 1.28 | 0.77 | 1.69 | 0.69 | 0.62 | 1.04 | 2.01 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2004, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 507 | 475 | 691 | 1,113 | 1,380 | 1,446 | 1,035 | 594 | 464 | 549 | 637 | 642 |
| MAX | 4,798 | 2,150 | 2,349 | 2,626 | 4,316 | 3,491 | 2,752 | 3,363 | 1,770 | 2,203 | 2,422 | 8,825 |
| (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) |

02091500 CONTENTNEA CREEK AT HOOKERTON, NC—Continued

| SUMMARY STATISTICS | FOR 2003 CALENDAR YEAR | | FOR 2004 WATER YEAR | | WATER YEARS 1929 - 2004 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 504,394 | | 306,225 | | 782 | |
| ANNUAL MEAN | 1,382 | | 837 | | 1,422 | |
| HIGHEST ANNUAL MEAN | | | | | 1960 | |
| LOWEST ANNUAL MEAN | | | | | 1951 | |
| HIGHEST DAILY MEAN | 5,300 | Apr 14 | 3,730 | Dec 19 | 31,500 | Sep 19, 1999 |
| LOWEST DAILY MEAN | 247 | Sep 17 | 106 | Jul 23 | 15 | Oct 28, 1933 |
| ANNUAL SEVEN-DAY MINIMUM | 282 | Sep 11 | 136 | Jul 18 | 16 | Oct 8, 1954 |
| MAXIMUM PEAK FLOW | | | 3,780 | Dec 19 | 31,900 | Sep 18, 1999 |
| MAXIMUM PEAK STAGE | | | 13.78 | Dec 19 | 28.28* | Sep 18, 1999 |
| INSTANTANEOUS LOW FLOW | | | 101 | Jul 23 | 15 | Oct 28, 1933 |
| ANNUAL RUNOFF (CFSM) | 1.89 | | 1.14 | | 1.07 | |
| ANNUAL RUNOFF (INCHES) | 25.60 | | 15.54 | | 14.50 | |
| 10 PERCENT EXCEEDS | 3,130 | | 1,650 | | 1,900 | |
| 50 PERCENT EXCEEDS | 1,080 | | 616 | | 446 | |
| 90 PERCENT EXCEEDS | 405 | | 225 | | 87 | |

* See REMARKS.

