

## 02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC

LOCATION.--Lat 36°31'21", long 78°59'51", Person County, Hydrologic Unit 03010104, on left bank 200 ft downstream from Afterbay Reservoir dam of Carolina Power and Light Company, 1.2 mi upstream from Ghent Creek, and 1.8 mi east-northeast of McGehees Mill.

DRAINAGE AREA.--202 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 342.98 ft above NGVD of 1929 (levels by Carolina Power and Light Company). From August 1964 to September 1973, records published as "Hyc0 River at McGehees Mill, NC" at site 2.8 mi upstream, at datum 349.78 ft. Water-temperature recorder operated at site 600 ft downstream on right bank from June 1974 to Sept. 1995. Satellite telemetry at station.

REMARKS.--Records poor. Flow regulated by Roxboro Steam-Electric Generating Plant Afterbay Reservoir.

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     | 72    | 19   | 19    | 78    | 74    | 80    | 23    | 88    | 17   | 17   | e22   | 231   |
| 2     | 71    | 20   | 19    | 78    | 74    | 81    | 23    | 86    | 18   | 18   | e22   | 278   |
| 3     | 71    | 21   | 20    | 78    | 74    | 81    | 23    | 79    | 17   | 17   | 18    | 211   |
| 4     | 70    | 21   | 19    | 80    | 130   | 81    | 25    | 76    | 16   | 20   | 18    | 19    |
| 5     | 55    | 20   | 19    | 176   | 342   | 82    | 25    | 77    | 17   | 19   | 16    | 18    |
| 6     | 46    | 20   | 41    | 216   | 367   | 82    | 24    | 76    | 18   | 18   | 16    | 18    |
| 7     | 46    | 21   | 78    | 150   | 853   | 85    | 25    | 76    | 18   | 19   | 16    | 18    |
| 8     | 46    | 21   | 78    | 78    | 940   | 87    | 70    | 74    | 18   | 19   | 15    | 115   |
| 9     | 45    | 22   | 76    | 78    | 766   | 88    | 91    | 75    | 18   | 19   | 15    | 247   |
| 10    | 45    | 22   | 288   | 78    | 79    | 88    | 91    | 75    | 18   | 18   | 15    | 249   |
| 11    | 45    | 21   | 945   | 79    | 80    | 88    | 90    | 74    | 17   | 18   | 15    | 238   |
| 12    | 46    | 20   | 856   | 77    | 81    | 87    | 88    | 73    | 17   | 18   | 14    | 238   |
| 13    | 46    | 19   | 324   | 77    | 81    | 87    | 582   | 73    | 16   | 18   | 15    | 146   |
| 14    | 47    | 19   | 541   | 77    | 82    | 87    | 481   | 73    | 16   | 18   | 14    | 108   |
| 15    | 46    | 18   | 1,030 | 76    | 82    | 86    | 271   | 72    | 17   | 17   | 14    | 106   |
| 16    | 46    | 18   | 957   | 77    | 84    | 86    | 222   | 42    | 17   | 17   | 15    | 106   |
| 17    | 45    | 18   | 818   | 77    | 84    | e85   | 88    | 18    | 17   | 17   | 16    | 107   |
| 18    | 45    | 18   | 380   | 77    | 235   | e85   | 90    | 18    | 18   | 16   | 16    | 215   |
| 19    | 45    | 18   | 294   | 76    | 249   | e85   | 92    | 18    | 18   | 16   | 16    | 208   |
| 20    | 44    | 18   | 74    | 76    | 82    | 86    | 92    | 18    | 17   | 17   | 16    | 95    |
| 21    | 44    | 19   | 75    | 76    | 82    | 86    | 93    | 18    | 18   | 17   | 16    | 18    |
| 22    | 43    | 19   | 76    | 76    | 83    | 83    | 93    | 18    | 18   | 17   | 16    | e22   |
| 23    | 43    | 19   | 76    | 76    | 83    | 83    | 93    | 18    | 18   | 17   | 16    | e20   |
| 24    | 43    | 20   | 76    | 75    | 83    | 84    | 91    | 18    | 17   | 17   | 17    | e21   |
| 25    | 43    | 20   | 77    | 75    | 83    | 86    | 92    | 18    | 17   | 15   | 17    | e15   |
| 26    | 42    | 20   | 77    | 75    | 83    | 86    | 91    | 18    | 17   | 16   | 16    | e18   |
| 27    | 42    | 20   | 78    | 75    | 83    | 87    | 91    | 17    | 16   | 16   | 16    | e14   |
| 28    | 42    | 19   | 166   | 74    | 195   | e44   | 88    | 17    | 16   | 16   | 16    | 19    |
| 29    | 42    | 19   | 78    | 74    | 220   | 22    | 89    | 17    | 16   | e19  | 16    | 19    |
| 30    | 26    | 19   | 78    | 74    | ---   | 22    | 89    | 16    | 17   | e24  | 555   | 19    |
| 31    | 19    | ---  | 79    | 74    | ---   | 22    | ---   | 17    | ---  | e22  | 691   | ---   |
| TOTAL | 1,451 | 588  | 7,812 | 2,683 | 5,834 | 2,402 | 3,426 | 1,453 | 515  | 552  | 1,716 | 3,156 |
| MEAN  | 46.8  | 19.6 | 252   | 86.5  | 201   | 77.5  | 114   | 46.9  | 17.2 | 17.8 | 55.4  | 105   |
| MAX   | 72    | 22   | 1,030 | 216   | 940   | 88    | 582   | 88    | 18   | 24   | 691   | 278   |
| MIN   | 19    | 18   | 19    | 74    | 74    | 22    | 23    | 16    | 16   | 15   | 14    | 14    |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)

|      |        |        |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 56.5   | 64.8   | 121    | 334    | 311    | 408    | 248    | 125    | 87.9   | 92.7   | 70.4   | 124    |
| MAX  | 351    | 398    | 432    | 1,201  | 926    | 1,165  | 712    | 864    | 528    | 1,058  | 294    | 675    |
| (WY) | (1996) | (2003) | (2003) | (1978) | (1979) | (1993) | (2003) | (1978) | (2003) | (1975) | (1982) | (1974) |
| MIN  | 3.47   | 2.40   | 2.19   | 2.76   | 4.38   | 6.02   | 5.21   | 4.22   | 3.96   | 6.14   | 1.08   | 1.55   |
| (WY) | (1999) | (1998) | (1998) | (2001) | (2002) | (2002) | (2002) | (2002) | (1974) | (2002) | (1999) | (1977) |

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| SUMMARY STATISTICS       | FOR 2003 CALENDAR YEAR |        | FOR 2004 WATER YEAR |        | WATER YEARS 1974 - 2004 |              |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL             | 124,241                |        | 31,588              |        | 170                     |              |
| ANNUAL MEAN              | 340                    |        | 86.3                |        | 394                     |              |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 5.11                    | 2003         |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 5.11                    | 2002         |
| HIGHEST DAILY MEAN       | 5,410                  | Mar 21 | 1,030               | Dec 15 | 9,280                   | Jul 14, 1975 |
| LOWEST DAILY MEAN        | 18                     | Nov 15 | 14                  | Aug 12 | 0.27                    | Nov 2, 1997  |
| ANNUAL SEVEN-DAY MINIMUM | 18                     | Nov 14 | 15                  | Aug 9  | 0.45                    | Aug 3, 1999  |
| MAXIMUM PEAK FLOW        |                        |        | 1,710               | Aug 30 | 11,300                  | Jul 14, 1975 |
| MAXIMUM PEAK STAGE       |                        |        | 12.10               | Aug 30 | 24.40                   | Jul 14, 1975 |
| INSTANTANEOUS LOW FLOW   |                        |        | 6.8                 | Sep 8  | 0.00                    | Jun 26, 1980 |
| 10 PERCENT EXCEEDS       | 907                    |        | 169                 |        | 384                     |              |
| 50 PERCENT EXCEEDS       | 72                     |        | 45                  |        | 32                      |              |
| 90 PERCENT EXCEEDS       | 24                     |        | 16                  |        | 9.2                     |              |

e Estimated.

