

Water-Data Report 2008

**02070500 MAYO RIVER NEAR PRICE, NC**

Roanoke Basin  
Upper Dan Subbasin

LOCATION.--Lat 36°32'02", long 79°59'29" referenced to North American Datum of 1983, Rockingham County, NC, Hydrologic Unit 03010103, on right bank 350 ft downstream from Anglins Bridge on Secondary Road 1358, 0.5 mi downstream from confluence of North and South Mayo Rivers, 0.8 mi downstream from Virginia-North Carolina state line, and 4.0 mi west of Price.

DRAINAGE AREA.--242 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1929 to September 1971, October 1993 to current year.

REVISED RECORDS.--WRIR 96-4154: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 689.95 ft above NGVD of 1929. Prior to October 29, 1929, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for current water year also occurred August 25, 26.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

| Day          | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr    | May    | Jun   | Jul   | Aug   | Sep   |
|--------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
| 1            | 95    | 181   | 127   | 354   | 271   | 131   | 212    | 322    | 176   | 165   | 166   | 121   |
| 2            | 95    | 170   | 126   | 252   | 468   | 128   | 181    | 285    | 176   | 132   | 101   | 107   |
| 3            | 96    | 159   | 127   | 197   | 259   | 127   | 167    | 260    | 177   | 120   | 156   | 98    |
| 4            | 97    | 156   | 124   | 173   | 231   | 138   | 315    | 244    | 204   | 111   | 89    | 92    |
| 5            | 97    | 151   | 124   | 199   | 247   | 440   | 280    | 225    | 171   | 117   | 72    | 86    |
| 6            | 97    | 148   | 124   | 156   | 224   | 255   | 1,160  | 216    | 157   | 119   | 71    | 140   |
| 7            | 97    | 142   | 121   | 149   | 239   | 228   | 677    | 208    | 149   | 122   | 75    | 160   |
| 8            | 95    | 138   | 122   | 144   | 212   | 403   | 409    | 203    | 153   | 114   | 76    | 100   |
| 9            | 92    | 139   | 125   | 141   | 194   | 348   | 329    | 3,560  | 143   | 132   | 65    | 91    |
| 10           | 88    | 141   | 126   | 140   | 177   | 268   | 290    | 796    | 134   | 166   | 57    | 98    |
| 11           | 88    | 137   | 126   | 178   | 157   | 233   | 266    | 473    | 129   | 135   | 53    | 135   |
| 12           | 81    | 136   | 126   | 168   | 158   | 213   | 259    | 482    | 158   | 112   | 49    | 116   |
| 13           | 80    | 140   | 127   | 147   | 184   | 197   | 244    | 366    | 155   | 99    | 47    | 108   |
| 14           | 80    | 144   | 128   | 140   | 242   | 186   | 225    | 322    | 141   | 119   | 51    | 97    |
| 15           | 80    | 146   | 126   | 133   | 192   | 185   | 217    | 303    | 194   | 110   | 63    | 87    |
| 16           | 80    | 143   | 211   | 128   | 179   | 199   | 209    | 302    | 150   | 89    | 94    | 105   |
| 17           | 80    | 133   | 201   | 138   | 170   | 174   | 203    | 286    | 131   | 83    | 66    | 162   |
| 18           | 81    | 133   | 153   | 162   | 175   | 163   | 199    | 261    | 122   | 80    | 55    | 111   |
| 19           | 91    | 133   | 142   | 158   | 169   | 165   | 197    | 255    | 117   | 74    | 50    | 95    |
| 20           | 112   | 133   | 138   | 144   | 153   | 243   | 239    | 242    | 116   | 73    | 46    | 90    |
| 21           | 104   | 133   | 141   | 122   | 149   | 212   | 248    | 233    | 107   | 73    | 42    | 88    |
| 22           | 91    | 134   | 145   | 187   | 146   | 192   | 343    | 220    | 103   | 66    | 40    | 87    |
| 23           | 91    | 137   | 159   | 137   | 147   | 180   | 290    | 213    | 270   | 78    | 40    | 83    |
| 24           | 109   | 127   | 258   | 130   | 143   | 172   | 250    | 219    | 183   | 83    | 39    | 78    |
| 25           | 412   | 128   | 194   | 120   | 142   | 163   | 230    | 214    | 130   | 74    | 38    | 74    |
| 26           | 1,340 | 142   | 177   | 122   | 143   | 157   | 222    | 199    | 118   | 64    | 42    | 97    |
| 27           | 795   | 152   | 174   | 120   | 151   | 154   | 367    | 193    | 112   | 62    | 775   | 290   |
| 28           | 351   | 139   | 169   | 118   | 135   | 155   | 923    | 190    | 112   | 62    | 669   | 336   |
| 29           | 249   | 131   | 358   | 118   | 130   | 154   | 672    | 199    | 194   | 55    | 244   | 190   |
| 30           | 212   | 129   | 442   | 125   | ---   | 149   | 396    | 187    | 412   | 51    | 170   | 147   |
| 31           | 193   | ---   | 754   | 122   | ---   | 162   | ---    | 181    | ---   | 71    | 140   | ---   |
| <b>Total</b> | 5,749 | 4,255 | 5,695 | 4,822 | 5,587 | 6,274 | 10,219 | 11,859 | 4,794 | 3,011 | 3,741 | 3,669 |
| <b>Mean</b>  | 185   | 142   | 184   | 156   | 193   | 202   | 341    | 383    | 160   | 97.1  | 121   | 122   |
| <b>Max</b>   | 1,340 | 181   | 754   | 354   | 468   | 440   | 1,160  | 3,560  | 412   | 166   | 775   | 336   |
| <b>Min</b>   | 80    | 127   | 121   | 118   | 130   | 127   | 167    | 181    | 103   | 51    | 38    | 74    |
| <b>Cfs/m</b> | 0.77  | 0.59  | 0.76  | 0.64  | 0.80  | 0.84  | 1.41   | 1.58   | 0.66  | 0.40  | 0.50  | 0.51  |
| <b>In.</b>   | 0.88  | 0.65  | 0.88  | 0.74  | 0.86  | 0.96  | 1.57   | 1.82   | 0.74  | 0.46  | 0.58  | 0.56  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2008<sup>a</sup>, BY WATER YEAR (WY)

|             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Mean</b> | 268    | 250    | 294    | 357    | 384    | 421    | 393    | 319    | 296    | 257    | 254    | 251    |
| <b>Max</b>  | 1,250  | 578    | 661    | 1,022  | 900    | 982    | 764    | 659    | 1,018  | 799    | 943    | 1,002  |
| <b>(WY)</b> | (1938) | (1958) | (1997) | (1936) | (1960) | (1994) | (2003) | (1949) | (2003) | (2003) | (1940) | (1945) |
| <b>Min</b>  | 84.5   | 95.9   | 118    | 112    | 139    | 202    | 164    | 157    | 78.6   | 77.3   | 47.5   | 62.0   |
| <b>(WY)</b> | (1932) | (1932) | (1956) | (1956) | (1931) | (2008) | (2002) | (1956) | (2002) | (2002) | (2002) | (1954) |

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## SUMMARY STATISTICS

|                                 | Calendar Year 2007 |        | Water Year 2008 |        | Water Years 1929 - 2008 <sup>a</sup> |              |
|---------------------------------|--------------------|--------|-----------------|--------|--------------------------------------|--------------|
| <b>Annual total</b>             | 95,760             |        | 69,675          |        |                                      |              |
| <b>Annual mean</b>              | 262                |        | 190             |        | 311                                  |              |
| <b>Highest annual mean</b>      |                    |        |                 |        | 547                                  |              |
| <b>Lowest annual mean</b>       |                    |        |                 |        | 136                                  |              |
| <b>Highest daily mean</b>       | 3,640              | Jan 1  | 3,560           | May 9  | 11,400                               | Sep 18, 1945 |
| <b>Lowest daily mean</b>        | 65                 | Aug 20 | 38              | Aug 25 | 33                                   | Aug 11, 2002 |
| <b>Annual seven-day minimum</b> | 70                 | Aug 15 | 41              | Aug 20 | 33                                   | Aug 10, 2002 |
| <b>Maximum peak flow</b>        |                    |        | 6,850           | May 9  | 30,000                               | Oct 19, 1937 |
| <b>Maximum peak stage</b>       |                    |        | 7.26            | May 9  | 14.00                                | Oct 19, 1937 |
| <b>Instantaneous low flow</b>   |                    |        | <sup>b</sup> 38 | Aug 24 | 32                                   | Oct 8, 1954  |
| <b>Annual runoff (cfs)</b>      | 1.08               |        | 0.787           |        | 1.29                                 |              |
| <b>Annual runoff (inches)</b>   | 14.72              |        | 10.71           |        | 17.49                                |              |
| <b>10 percent exceeds</b>       | 408                |        | 290             |        | 498                                  |              |
| <b>50 percent exceeds</b>       | 182                |        | 144             |        | 233                                  |              |
| <b>90 percent exceeds</b>       | 94                 |        | 80              |        | 123                                  |              |

<sup>a</sup>See Period of Record.<sup>b</sup>See Remarks.