

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC

LOCATION.--Lat 35°25'36", long 82°55'11", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on State Highway 215, and 1.6 mi southwest of Retreat.

DRAINAGE AREA.--33.5 mi².

PERIOD OF RECORD.--March 1988 to current year.

REVISED RECORDS.--WRD NC-04-1: 1990-1994(M), 1996(M).

GAGE.--Water-stage recorder and crest-stage gages. Elevation of gage is 2,839 ft above NGVD of 1929, from topographic map. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some low flow regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for period of record from rating curve extended above 4,000 ft³/s on basis of computation of peak flow over dam at Lake Logan. Maximum gage-height for period of record from high-water mark at gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | e330 | 66 | 324 | 140 | 84 | 125 | 115 | 208 | 75 | e340 | 145 | 205 |
| 2 | e250 | 69 | 212 | 132 | 84 | 113 | 301 | 200 | 305 | e270 | 122 | 161 |
| 3 | e270 | 140 | 187 | 126 | e200 | 111 | 160 | 105 | 171 | e210 | 107 | 140 |
| 4 | e210 | e506 | 167 | 121 | 125 | 108 | 147 | e30 | 110 | e205 | 109 | 124 |
| 5 | e190 | 205 | 153 | 115 | 108 | 127 | 129 | e23 | 91 | e180 | 95 | 114 |
| 6 | e170 | 140 | 251 | 115 | 104 | 112 | 110 | e24 | 128 | e170 | 93 | 106 |
| 7 | e160 | 118 | 355 | 105 | 100 | 131 | 144 | e30 | 103 | 673 | 115 | 98 |
| 8 | e150 | 102 | 255 | 128 | 108 | e410 | 289 | 41 | 208 | 418 | 154 | 92 |
| 9 | e145 | 89 | 412 | 105 | 116 | 212 | 174 | 39 | 147 | e440 | 125 | 87 |
| 10 | 139 | 81 | 356 | e290 | 115 | 182 | 136 | 100 | 115 | e495 | 107 | 82 |
| 11 | 130 | 80 | 278 | e326 | e96 | 165 | 118 | 83 | 165 | e190 | 94 | 78 |
| 12 | 124 | 386 | 242 | 106 | e92 | 151 | 119 | 66 | 1,110 | 501 | 84 | 74 |
| 13 | 155 | 210 | 215 | 53 | e105 | 148 | 186 | 75 | 993 | 332 | 93 | 71 |
| 14 | 114 | 157 | 191 | 240 | e130 | 177 | 180 | 57 | 488 | 280 | 115 | 68 |
| 15 | 107 | 137 | 253 | 233 | 125 | 144 | 163 | 75 | 371 | 248 | 82 | 65 |
| 16 | 99 | 124 | 181 | 219 | 112 | 182 | 166 | 62 | 312 | 225 | 77 | 76 |
| 17 | 89 | 114 | 148 | e280 | 101 | 168 | 163 | 51 | 271 | 202 | 81 | 70 |
| 18 | 88 | 104 | e102 | e360 | 87 | 143 | 161 | 47 | 244 | 179 | 80 | 58 |
| 19 | 121 | 96 | 139 | 274 | 85 | 136 | 157 | 44 | 249 | 175 | 82 | 54 |
| 20 | 104 | 91 | e134 | 49 | 101 | 129 | 126 | 245 | 264 | 209 | 74 | 53 |
| 21 | 86 | 84 | e290 | 51 | e280 | 121 | e54 | 117 | 224 | 169 | 70 | 51 |
| 22 | 80 | 81 | 270 | 51 | 232 | 139 | e36 | 84 | 199 | 249 | 95 | 50 |
| 23 | 75 | 132 | 454 | 52 | 168 | 299 | 58 | 69 | 184 | 204 | 90 | 50 |
| 24 | 75 | 509 | 298 | 66 | 205 | 186 | 76 | 60 | 168 | 155 | 72 | 48 |
| 25 | 70 | 348 | 236 | 156 | 169 | 162 | 65 | 56 | 155 | 140 | 67 | 47 |
| 26 | 66 | 229 | 208 | 86 | 146 | 151 | 68 | 53 | 163 | 127 | 64 | 69 |
| 27 | 64 | 209 | 186 | 32 | 136 | 166 | 72 | 47 | e240 | 116 | 62 | 63 |
| 28 | 73 | 239 | 175 | e27 | 153 | 562 | 62 | 46 | 144 | 131 | e210 | 51 |
| 29 | 138 | 185 | 230 | e30 | --- | 212 | 78 | 41 | e245 | 272 | e350 | 52 |
| 30 | 83 | 169 | 157 | e33 | --- | 130 | 133 | 38 | e180 | 165 | 582 | 51 |
| 31 | 71 | --- | 96 | 39 | --- | 107 | --- | 34 | --- | 148 | 326 | --- |
| TOTAL | 4,026 | 5,200 | 7,155 | 4,140 | 3,667 | 5,409 | 3,946 | 2,250 | 7,822 | 7,818 | 4,022 | 2,408 |
| MEAN | 130 | 173 | 231 | 134 | 131 | 174 | 132 | 72.6 | 261 | 252 | 130 | 80.3 |
| MAX | 330 | 509 | 454 | 360 | 280 | 562 | 301 | 245 | 1,110 | 673 | 582 | 205 |
| MIN | 64 | 66 | 96 | 27 | 84 | 107 | 36 | 23 | 75 | 116 | 62 | 47 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 84.2 | 110 | 125 | 164 | 183 | 190 | 150 | 118 | 103 | 77.9 | 76.8 | 103 |
| MAX | 262 | 265 | 239 | 314 | 360 | 309 | 268 | 244 | 261 | 252 | 220 | 732 |
| (WY) | (1996) | (1993) | (1993) | (1996) | (1990) | (1990) | (1994) | (2003) | (2005) | (2005) | (1994) | (2004) |
| MIN | 18.5 | 34.7 | 52.1 | 83.4 | 81.1 | 62.6 | 72.2 | 48.1 | 40.0 | 31.3 | 24.7 | 17.3 |
| (WY) | (1999) | (1999) | (1989) | (2004) | (2002) | (1988) | (1995) | (2001) | (1988) | (1993) | (1998) | (1998) |

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| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1988 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 61,083 | | 57,863 | | 126 | |
| ANNUAL MEAN | 167 | | 159 | | 69.4 | |
| HIGHEST ANNUAL MEAN | | | | | 159 | 2005 |
| LOWEST ANNUAL MEAN | | | | | 69.4 | 2001 |
| HIGHEST DAILY MEAN | 3,630 | Sep 8 | 1,110 | Jun 12 | 3,630 | Sep 8, 2004 |
| LOWEST DAILY MEAN | 32 | Aug 27 | 23 | May 5 | 15 | Sep 27, 1998 |
| ANNUAL SEVEN-DAY MINIMUM | 39 | Aug 21 | 41 | May 4 | 16 | Sep 11, 1998 |
| MAXIMUM PEAK FLOW | | | 2,760 | Aug 30 | 15,600* | Sep 17, 2004 |
| MAXIMUM PEAK STAGE | | | 5.40 | Aug 30 | 14.15* | Sep 17, 2004 |
| INSTANTANEOUS LOW FLOW | | | NOT DETERMINED | | 12 | Jul 19, 2001 |
| 10 PERCENT EXCEEDS | 292 | | 284 | | 236 | |
| 50 PERCENT EXCEEDS | 91 | | 129 | | 87 | |
| 90 PERCENT EXCEEDS | 49 | | 54 | | 31 | |

* See REMARKS.
e Estimated.

