# 03586500 BIG NANCE CREEK AT COURTLAND, AL

Middle Tennessee-Elk Basin
Pickwick Lake Subbasin

LOCATION.--Lat 34°40′12″, long 87°19′02″ referenced to North American Datum of 1927, Lawrence County, AL, Hydrologic Unit 06030005, near right bank on downstream side of bridge on County Road 25 at Courtland, and at mile 12.9.

DRAINAGE AREA.--166 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1935 to September 1940, April 1945 to September 1981, March 1988 to current year.

REVISED RECORDS.-- WSP 1033: 1939, 1940(M). WSP 1053: 1939(M). WSP 1306: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 537.60 ft above NGVD of 1929. July 25, 1935 to Sept. 30, 1940, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharge. Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,800 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Jan 24 | 1230 | *3,920 | *15.03 |

Minimum discharge, 2.6 $ft^3/s$, June 30, July 1, 3, 4, gage height, 0.99 ft.



Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 03586500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/03586500.2012.pdf

**03586500 BIG NANCE CREEK AT COURTLAND, AL—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 13 | 6.3 | 94 | 226 | 353 | 170 | 329 | 30 | 7.7 | 2.7 | 8.6 | 5.2 |
| 2 | 12 | 6.1 | 69 | 183 | 1,310 | 265 | 224 | 27 | 6.8 | 2.8 | 8.3 | 5.4 |
| 3 | 10 | 6.3 | 56 | 151 | 776 | 226 | 137 | 26 | 6.1 | 2.7 | 27 | 370 |
| 4 | 9.0 | 6.5 | 46 | 132 | 480 | 180 | 107 | 24 | 12 | 2.7 | 14 | 293 |
| 5 | 8.8 | 6.1 | 53 | 123 | 1,170 | 141 | 92 | 24 | 157 | 3.0 | 10 | 64 |
| 6 | 8.6 | 6.7 | 316 | 117 | 712 | 120 | 643 | 23 | 61 | 4.1 | 9.2 | 33 |
| 7 | 8.1 | 9.3 | 488 | 115 | 420 | 109 | 492 | 23 | 30 | 3.8 | 34 | 22 |
| 8 | 7.5 | 11 | 464 | 242 | 323 | 110 | 161 | 30 | 19 | 5.4 | 34 | 18 |
| 9 | 7.5 | 13 | 248 | 412 | 264 | 1,270 | 117 | 48 | 14 | 7.6 | 15 | 13 |
| 10 | 7.3 | 14 | 164 | 319 | 228 | 1,590 | 96 | 34 | 13 | 12 | 9.5 | 10 |
| 11 | 7.7 | 15 | 126 | 1,140 | 204 | 517 | 83 | 26 | 15 | 24 | 7.2 | 7.5 |
| 12 | 7.6 | 16 | 104 | 2,450 | 178 | 351 | 75 | 23 | 19 | 134 | 13 | 5.6 |
| 13 | 8.0 | 18 | 93 | 1,390 | 158 | 293 | 67 | 23 | 21 | 395 | 16 | 4.6 |
| 14 | 7.6 | 19 | 85 | 498 | 162 | 246 | 63 | 26 | 18 | 146 | 9.5 | 4.3 |
| 15 | 7.4 | 20 | 79 | 378 | 182 | 213 | 59 | 34 | 13 | 94 | 8.1 | 3.9 |
| 16 | 7.3 | 47 | 133 | 312 | 178 | 239 | 58 | 30 | 11 | 69 | 11 | 3.6 |
| 17 | 7.8 | 119 | 633 | 335 | 211 | 290 | 70 | 25 | 9.1 | 84 | 21 | 6.9 |
| 18 | 8.6 | 79 | 283 | 1,250 | 173 | 204 | 201 | 21 | 7.7 | 76 | 67 | 807 |
| 19 | 8.7 | 55 | 174 | 705 | 420 | 163 | 163 | 21 | 6.5 | 37 | 59 | 591 |
| 20 | 6.6 | 38 | 138 | 427 | 823 | 140 | 96 | 18 | 5.5 | 27 | 52 | 131 |
| 21 | 6.1 | 27 | 125 | 479 | 382 | 127 | 75 | 15 | 4.8 | 23 | 42 | 74 |
| 22 | 6.3 | 31 | 466 | 688 | 271 | 119 | 65 | 19 | 4.6 | 25 | 23 | 53 |
| 23 | 6.7 | 35 | 1,790 | 1,600 | 302 | 140 | 57 | 62 | 4.2 | 18 | 16 | 39 |
| 24 | 6.8 | 37 | 1,150 | 3,590 | 291 | 341 | 50 | 30 | 4.0 | 13 | 13 | 32 |
| 25 | 5.5 | 39 | 376 | 1,600 | 197 | 192 | 45 | 20 | 3.8 | 11 | 11 | 26 |
| 26 | 5.1 | 39 | 279 | 637 | 162 | 150 | 41 | 15 | 3.5 | 9.4 | 9.2 | 20 |
| 27 | 5.3 | 43 | 1,410 | 1,360 | 143 | 126 | 37 | 13 | 3.2 | 10 | 7.9 | 17 |
| 28 | 6.6 | 108 | 1,910 | 723 | 130 | 110 | 34 | 11 | 3.0 | 10 | 7.1 | 15 |
| 29 | 7.5 | 187 | 618 | 453 | 124 | 99 | 33 | 10 | 2.8 | 8.7 | 6.4 | 14 |
| 30 | 9.3 | 153 | 382 | 350 | --- | 92 | 32 | 9.2 | 2.8 | 9.0 | 6.0 | 14 |
| 31 | 6.9 | --- | 296 | 285 | --- | 150 | --- | 8.5 | --- | 8.8 | 5.8 | --- |
| Total | 241.2 | 1,210.3 | 12,648 | 22,670 | 10,727 | 8,483 | 3,802 | 748.7 | 489.1 | 1,278.7 | 580.8 | 2,703.0 |
| Mean | 7.78 | 40.3 | 408 | 731 | 370 | 274 | 127 | 24.2 | 16.3 | 41.2 | 18.7 | 90.1 |
| Max | 13 | 187 | 1,910 | 3,590 | 1,310 | 1,590 | 643 | 62 | 157 | 395 | 67 | 807 |
| Min | 5.1 | 6.1 | 46 | 115 | 124 | 92 | 32 | 8.5 | 2.8 | 2.7 | 5.8 | 3.6 |
| Cfsm | 0.05 | 0.24 | 2.46 | 4.41 | 2.23 | 1.65 | 0.76 | 0.15 | 0.10 | 0.25 | 0.11 | 0.54 |
| In. | 0.05 | 0.27 | 2.83 | 5.08 | 2.40 | 1.90 | 0.85 | 0.17 | 0.11 | 0.29 | 0.13 | 0.61 |

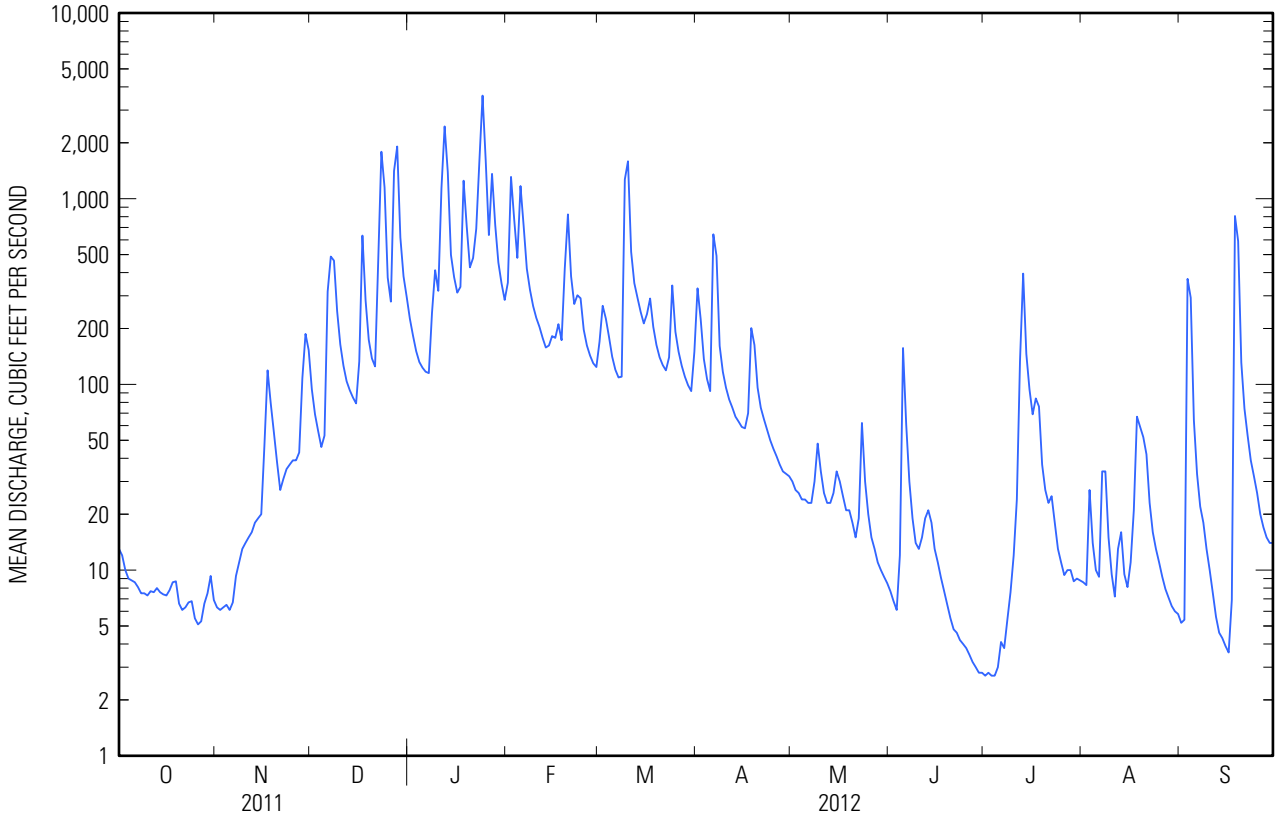
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2012, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 82.3 | 152 | 370 | 565 | 594 | 597 | 400 | 222 | 121 | 84.7 | 48.8 | 65.4 |
| Max | 1,481 | 1,170 | 1,704 | 1,702 | 1,523 | 1,775 | 1,548 | 1,123 | 1,202 | 640 | 323 | 569 |
| (WY) | (1976) | (1958) | (1991) | (1949) | (1991) | (1973) | (2011) | (2003) | (1997) | (1940) | (1938) | (1979) |
| Min | 0.52 | 1.87 | 2.96 | 8.56 | 103 | 69.1 | 88.0 | 18.2 | 3.57 | 1.68 | 1.65 | 1.03 |
| (WY) | (1956) | (1940) | (1940) | (1956) | (1968) | (1988) | (1978) | (1988) | (2007) | (1954) | (1988) | (1947) |

**03586500 BIG NANCE CREEK AT COURTLAND, AL—Continued**

**SUMMARY STATISTICS**

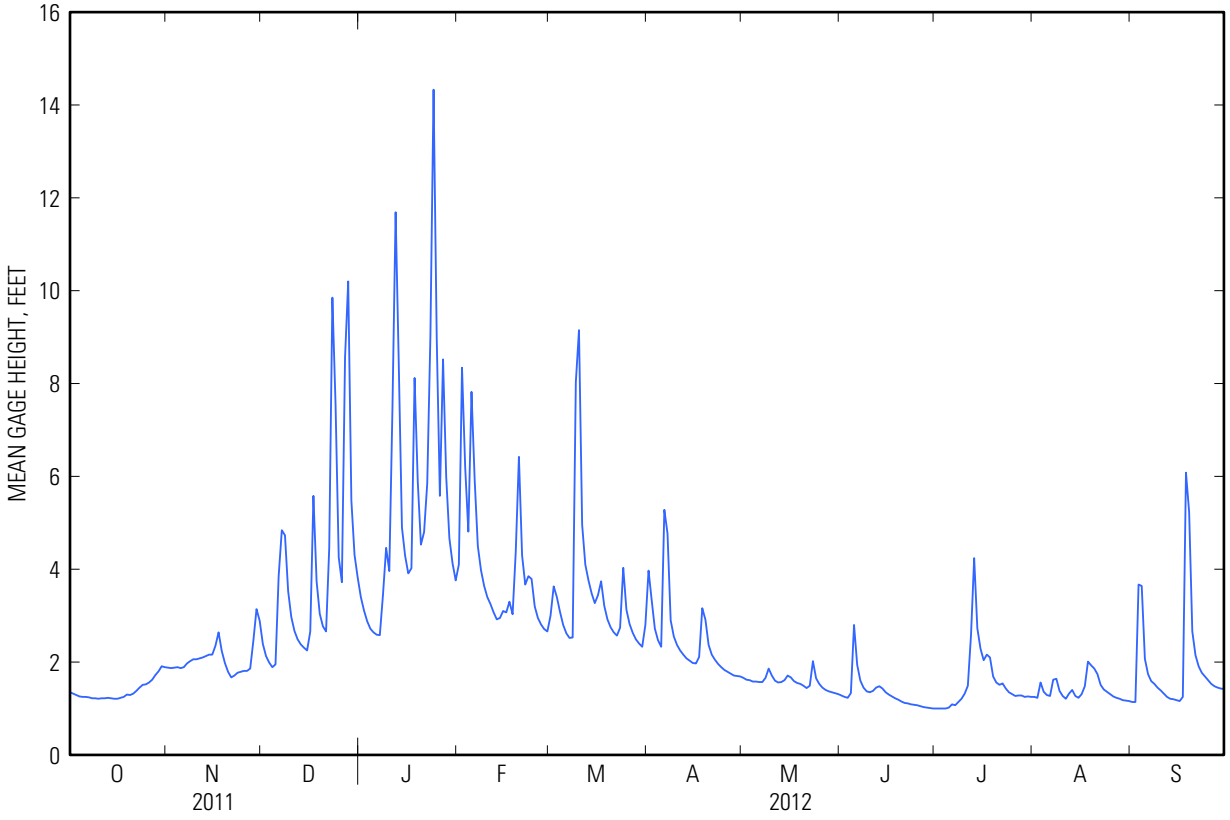
| | Calendar Year 2011 | | Water Year 2012 | | Water Years 1935 - 2012 | |
|---|---|---|---|---|---|---|
| **Annual total** | 119,080.7 | | 65,581.8 | | | |
| **Annual mean** | 326 | | 179 | | 276 | |
| **Highest annual mean** | | | | | 580 | 1991 |
| **Lowest annual mean** | | | | | 93.2 | 2007 |
| **Highest daily mean** | 10,100 | Apr 29 | 3,590 | Jan 24 | 18,400 | Dec 23, 1990 |
| **Lowest daily mean** | 5.1 | Oct 26 | 2.7 | Jul 1,3,4 | 0.40 | Sep 15, 1954 |
| **Annual seven-day minimum** | 6.0 | Oct 21 | 2.8 | Jun 28 | 0.41 | Oct 11, 1955 |
| **Maximum peak flow** | | | 3,920 | Jan 24 | 27,200 | Mar 16, 1973 |
| **Maximum peak stage** | | | 15.03 | Jan 24 | 24.97 | Mar 16, 1973 |
| **Annual runoff (cfsm)** | 1.97 | | 1.08 | | 1.66 | |
| **Annual runoff (inches)** | 26.69 | | 14.70 | | 22.58 | |
| **10 percent exceeds** | 624 | | 456 | | 618 | |
| **50 percent exceeds** | 83 | | 38 | | 74 | |
| **90 percent exceeds** | 8.5 | | 6.3 | | 5.0 | |



**03586500 BIG NANCE CREEK AT COURTLAND, AL—Continued**

**GAGE HEIGHT, FEET**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.35 | 1.88 | 2.39 | 3.40 | 4.10 | 3.00 | 3.97 | 1.66 | 1.28 | 1.00 | 1.25 | 1.14 |
| 2 | 1.32 | 1.87 | 2.13 | 3.11 | 8.34 | 3.63 | 3.33 | 1.62 | 1.25 | 1.00 | 1.23 | 1.14 |
| 3 | 1.29 | 1.88 | 1.99 | 2.88 | 6.20 | 3.40 | 2.72 | 1.61 | 1.23 | 1.00 | 1.56 | 3.67 |
| 4 | 1.26 | 1.89 | 1.89 | 2.72 | 4.81 | 3.08 | 2.47 | 1.58 | 1.33 | 1.00 | 1.36 | 3.64 |
| 5 | 1.25 | 1.87 | 1.95 | 2.64 | 7.82 | 2.80 | 2.33 | 1.58 | 2.80 | 1.02 | 1.29 | 2.07 |
| 6 | 1.25 | 1.89 | 3.85 | 2.59 | 5.93 | 2.62 | 5.28 | 1.57 | 1.94 | 1.09 | 1.27 | 1.74 |
| 7 | 1.24 | 1.97 | 4.84 | 2.58 | 4.50 | 2.52 | 4.77 | 1.57 | 1.60 | 1.07 | 1.62 | 1.59 |
| 8 | 1.22 | 2.02 | 4.73 | 3.45 | 3.98 | 2.53 | 2.90 | 1.66 | 1.45 | 1.14 | 1.64 | 1.53 |
| 9 | 1.22 | 2.06 | 3.53 | 4.46 | 3.64 | 8.03 | 2.55 | 1.86 | 1.37 | 1.21 | 1.38 | 1.45 |
| 10 | 1.21 | 2.06 | 2.97 | 3.96 | 3.40 | 9.15 | 2.37 | 1.71 | 1.35 | 1.32 | 1.27 | 1.39 |
| 11 | 1.22 | 2.08 | 2.67 | 7.48 | 3.25 | 4.96 | 2.25 | 1.60 | 1.38 | 1.49 | 1.21 | 1.32 |
| 12 | 1.22 | 2.10 | 2.49 | 11.69 | 3.07 | 4.10 | 2.16 | 1.56 | 1.45 | 2.58 | 1.32 | 1.25 |
| 13 | 1.23 | 2.13 | 2.38 | 8.40 | 2.92 | 3.76 | 2.08 | 1.57 | 1.48 | 4.24 | 1.40 | 1.21 |
| 14 | 1.22 | 2.16 | 2.31 | 4.90 | 2.95 | 3.48 | 2.03 | 1.61 | 1.43 | 2.73 | 1.27 | 1.20 |
| 15 | 1.21 | 2.16 | 2.25 | 4.29 | 3.10 | 3.27 | 1.98 | 1.71 | 1.35 | 2.29 | 1.23 | 1.18 |
| 16 | 1.21 | 2.35 | 2.66 | 3.91 | 3.07 | 3.44 | 1.97 | 1.67 | 1.30 | 2.04 | 1.31 | 1.16 |
| 17 | 1.23 | 2.64 | 5.58 | 4.02 | 3.30 | 3.74 | 2.11 | 1.59 | 1.26 | 2.16 | 1.48 | 1.25 |
| 18 | 1.25 | 2.24 | 3.74 | 8.12 | 3.03 | 3.21 | 3.16 | 1.55 | 1.22 | 2.10 | 2.01 | 6.08 |
| 19 | 1.30 | 1.98 | 3.04 | 5.89 | 4.38 | 2.92 | 2.91 | 1.53 | 1.19 | 1.69 | 1.93 | 5.23 |
| 20 | 1.29 | 1.79 | 2.77 | 4.53 | 6.42 | 2.75 | 2.37 | 1.49 | 1.15 | 1.56 | 1.86 | 2.66 |
| 21 | 1.32 | 1.67 | 2.66 | 4.80 | 4.30 | 2.64 | 2.16 | 1.44 | 1.12 | 1.51 | 1.74 | 2.15 |
| 22 | 1.38 | 1.71 | 4.46 | 5.85 | 3.67 | 2.57 | 2.05 | 1.49 | 1.11 | 1.54 | 1.51 | 1.91 |
| 23 | 1.45 | 1.77 | 9.85 | 9.02 | 3.85 | 2.74 | 1.96 | 2.02 | 1.09 | 1.43 | 1.41 | 1.77 |
| 24 | 1.51 | 1.79 | 7.54 | 14.33 | 3.79 | 4.03 | 1.89 | 1.65 | 1.08 | 1.35 | 1.36 | 1.69 |
| 25 | 1.52 | 1.81 | 4.26 | 8.98 | 3.20 | 3.13 | 1.83 | 1.53 | 1.07 | 1.31 | 1.31 | 1.61 |
| 26 | 1.56 | 1.81 | 3.72 | 5.58 | 2.95 | 2.82 | 1.79 | 1.45 | 1.05 | 1.27 | 1.26 | 1.53 |
| 27 | 1.62 | 1.86 | 8.56 | 8.52 | 2.81 | 2.63 | 1.75 | 1.40 | 1.03 | 1.28 | 1.23 | 1.48 |
| 28 | 1.72 | 2.46 | 10.20 | 5.99 | 2.71 | 2.49 | 1.71 | 1.37 | 1.02 | 1.28 | 1.21 | 1.45 |
| 29 | 1.80 | 3.14 | 5.48 | 4.67 | 2.66 | 2.40 | 1.70 | 1.35 | 1.01 | 1.25 | 1.18 | 1.43 |
| 30 | 1.91 | 2.89 | 4.31 | 4.13 | --- | 2.33 | 1.69 | 1.33 | 1.00 | 1.26 | 1.17 | 1.42 |
| 31 | 1.89 | --- | 3.82 | 3.76 | --- | 2.80 | --- | 1.31 | --- | 1.25 | 1.16 | --- |
| Mean | 1.38 | 2.06 | 4.03 | 5.50 | 4.07 | 3.45 | 2.47 | 1.57 | 1.31 | 1.56 | 1.40 | 1.94 |
| Max | 1.91 | 3.14 | 10.20 | 14.33 | 8.34 | 9.15 | 5.28 | 2.02 | 2.80 | 4.24 | 2.01 | 6.08 |
| Min | 1.21 | 1.67 | 1.89 | 2.58 | 2.66 | 2.33 | 1.69 | 1.31 | 1.00 | 1.00 | 1.16 | 1.14 |

| | Water Year 2012 |
|---|---|
| Mean | 2.56 |
| Max | 14.33 |
| Min | 1.00 |

**03586500 BIG NANCE CREEK AT COURTLAND, AL—Continued**