

Water-Data Report 2009

03598169 BENFORD CREEK NEAR SHELBYVILLE, TN

Lower Tennessee Basin
Upper Duck Subbasin

LOCATION.--Lat 35°34'18", long 86°26'39" referenced to North American Datum of 1927, Bedford County, TN, Hydrologic Unit 06040002, on the right upstream bank of U.S. Highway 231.

DRAINAGE AREA.--5.59 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 2008 to June 2009 (discontinued).

GAGE.--CR850 data logger with modem, water quality sensor and pressure transducer.

REMARKS.--Records fair except for estimated daily discharges which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period December 2008 to June 2009, 764 ft³/s, May 2; gage height, 8.58 ft, minimum discharge, 0.00 ft³/s, several days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|-----|-----|------|------|------|------|------|------|------|-----|-----|-----|
| 1 | --- | --- | e1.5 | 6.8 | 5.8 | 16 | 9.3 | 151 | 0.17 | --- | --- | --- |
| 2 | --- | --- | e1.5 | 5.9 | 5.1 | 17 | 63 | 322 | 0.18 | --- | --- | --- |
| 3 | --- | --- | e1.4 | 5.3 | 4.3 | 13 | 104 | 262 | 0.15 | --- | --- | --- |
| 4 | --- | --- | e4.5 | 4.8 | 3.2 | 11 | 21 | 125 | 0.26 | --- | --- | --- |
| 5 | --- | --- | 4.7 | 5.9 | 2.7 | 9.7 | 14 | 25 | 0.16 | --- | --- | --- |
| 6 | --- | --- | 2.9 | 87 | 2.9 | 7.6 | 10 | 80 | 0.11 | --- | --- | --- |
| 7 | --- | --- | 1.9 | 74 | 2.9 | 6.3 | 8.7 | 79 | 0.08 | --- | --- | --- |
| 8 | --- | --- | 1.3 | 25 | 2.5 | 5.5 | 7.1 | 34 | 0.05 | --- | --- | --- |
| 9 | --- | --- | 9.8 | 15 | 2.3 | 4.7 | 6.1 | 22 | 0.04 | --- | --- | --- |
| 10 | --- | --- | 185 | 30 | 2.1 | 4.2 | 48 | 13 | 0.02 | --- | --- | --- |
| 11 | --- | --- | 200 | 28 | 2.5 | 3.6 | 22 | 12 | 0.04 | --- | --- | --- |
| 12 | --- | --- | 69 | 16 | 3.3 | 4.5 | 12 | 7.5 | 0.05 | --- | --- | --- |
| 13 | --- | --- | 30 | 12 | 2.6 | 19 | 9.7 | 4.9 | 0.03 | --- | --- | --- |
| 14 | --- | --- | 20 | 9.0 | 2.5 | 102 | 9.4 | 3.6 | 0.01 | --- | --- | --- |
| 15 | --- | --- | 19 | 6.7 | 2.2 | 61 | 6.8 | 2.9 | 0.01 | --- | --- | --- |
| 16 | --- | --- | 29 | 4.9 | 1.9 | 26 | 5.7 | 2.4 | 0.00 | --- | --- | --- |
| 17 | --- | --- | 33 | 4.5 | 1.8 | 16 | 4.8 | 2.3 | 0.00 | --- | --- | --- |
| 18 | --- | --- | 25 | 4.7 | 3.6 | 12 | 4.2 | 1.7 | 0.00 | --- | --- | --- |
| 19 | --- | --- | 19 | 4.4 | 3.6 | 8.7 | 18 | 1.3 | 0.00 | --- | --- | --- |
| 20 | --- | --- | 15 | 3.3 | 2.7 | 6.8 | 20 | 1.2 | 0.00 | --- | --- | --- |
| 21 | --- | --- | 15 | 2.7 | 2.5 | 5.6 | 9.7 | 1.0 | 0.00 | --- | --- | --- |
| 22 | --- | --- | 10 | 2.7 | 2.5 | 5.0 | 6.5 | 0.93 | 0.00 | --- | --- | --- |
| 23 | --- | --- | 9.0 | 2.8 | 2.1 | 4.6 | 5.1 | 0.83 | 0.00 | --- | --- | --- |
| 24 | --- | --- | 16 | 2.6 | 2.0 | 4.3 | 4.2 | 0.87 | 0.00 | --- | --- | --- |
| 25 | --- | --- | 22 | 2.1 | 2.0 | 4.9 | 3.5 | 0.86 | 0.00 | --- | --- | --- |
| 26 | --- | --- | 15 | 2.0 | 2.3 | 154 | 3.0 | 0.69 | 0.00 | --- | --- | --- |
| 27 | --- | --- | 12 | 2.5 | 2.4 | 27 | 2.4 | 0.64 | 0.00 | --- | --- | --- |
| 28 | --- | --- | 28 | 21 | 3.4 | 23 | 2.0 | 0.51 | 0.00 | --- | --- | --- |
| 29 | --- | --- | 17 | 15 | --- | 20 | 1.8 | 0.39 | 0.00 | --- | --- | --- |
| 30 | --- | --- | 12 | 9.5 | --- | 12 | 1.5 | 0.38 | 0.00 | --- | --- | --- |
| 31 | --- | --- | 8.9 | 7.2 | --- | 9.9 | --- | 0.28 | --- | --- | --- | --- |
| Mean | --- | --- | 27.0 | 13.7 | 2.85 | 20.2 | 14.8 | 37.4 | 0.05 | --- | --- | --- |
| Max | --- | --- | 200 | 87 | 5.8 | 154 | 104 | 322 | 0.26 | --- | --- | --- |
| Min | --- | --- | 1.3 | 2.0 | 1.8 | 3.6 | 1.5 | 0.28 | 0.00 | --- | --- | --- |

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