Water-Data Report 2013

# 03577150 TENNESSEE RIVER AT DECATUR, AL

Middle Tennessee-Elk Basin
Wheeler Lake Subbasin

LOCATION.--Lat 34°36′47″, long 86°58′26″ referenced to North American Datum of 1927, Morgan County, AL, Hydrologic Unit 06030002, on left bank at downstream side of Keller Memorial Bridge on U.S. Highway 31 in Decatur, 3.8 mi downstream from Flint Creek, 30 mi upstream of Wheeler Dam, and at mile 305.1.

DRAINAGE AREA.--26,900 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1926 to current year (gage heights). October 1990 to current year in reports of Geological Survey. Records for December 1926 to September 1990 in files of Tennessee Valley Authority.

GAGE.--Water-stage recorder. Datum of gage is 549.00 ft above NGVD of 1929.

REMARKS.—Records good. Gage heights affected by Wheeler Lake since October 1936.

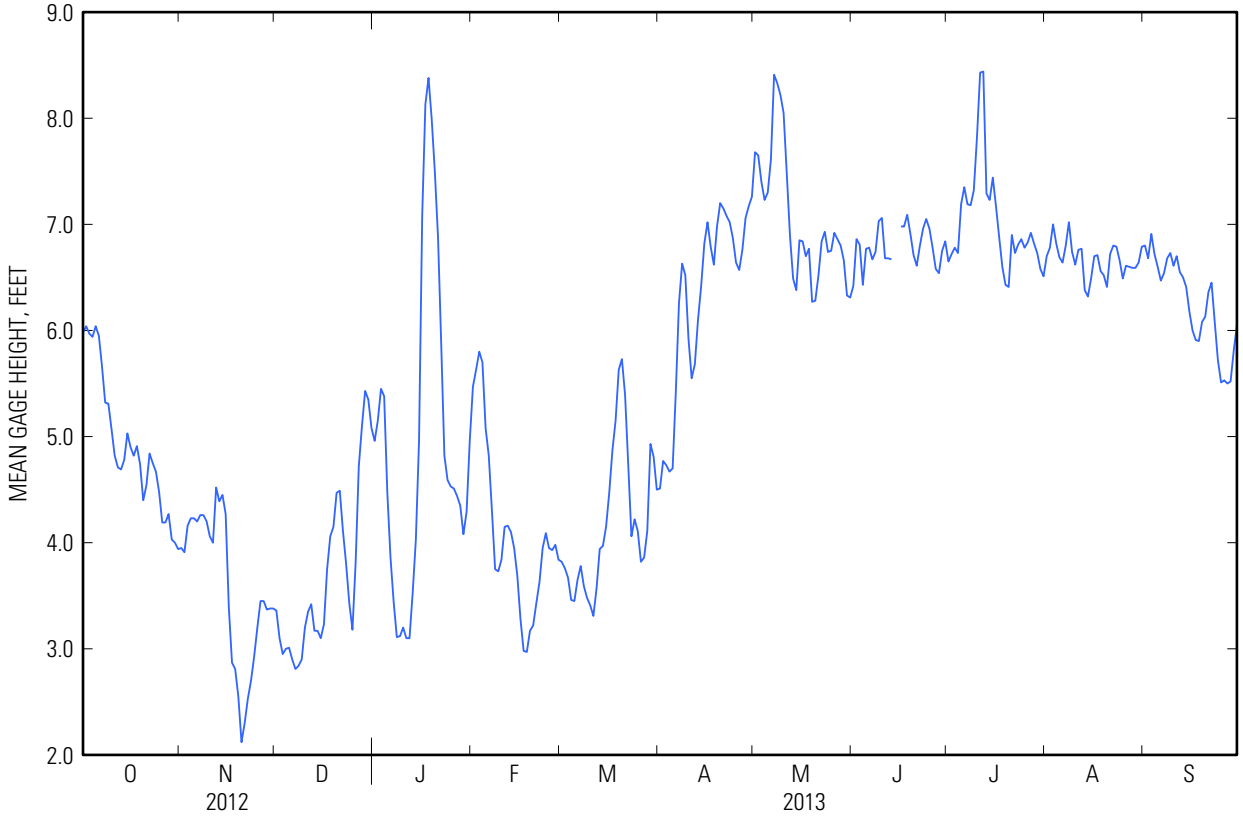
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height (prior to October 1936), 8.5 ft, date unknown, maximum gage height (since October 1936), 9.97 ft, Mar. 18, 1973; minimum gage height (since October 1936), -0.10 ft, Dec. 8, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known (from TVA records), 14.8 ft, Mar. 15, 1867.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.61 ft, May 7; minimum gage height, 1.94 ft, Nov. 20.

**03577150 TENNESSEE RIVER AT DECATUR, AL—Continued**

**GAGE HEIGHT, FEET**
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.98 | 3.95 | 3.36 | 4.96 | 5.47 | 3.82 | 4.51 | 7.68 | 6.42 | 6.65 | 6.70 | 6.80 |
| 2 | 6.04 | 3.91 | 3.10 | 5.15 | 5.63 | 3.76 | 4.77 | 7.65 | 6.86 | 6.72 | 6.78 | 6.68 |
| 3 | 5.97 | 4.16 | 2.95 | 5.45 | 5.80 | 3.67 | 4.73 | 7.40 | 6.81 | 6.78 | 7.00 | 6.91 |
| 4 | 5.94 | 4.23 | 3.00 | 5.38 | 5.70 | 3.46 | 4.67 | 7.23 | 6.43 | 6.73 | 6.82 | 6.72 |
| 5 | 6.04 | 4.23 | 3.01 | 4.47 | 5.08 | 3.45 | 4.70 | 7.30 | 6.77 | 7.19 | 6.69 | 6.60 |
| 6 | 5.95 | 4.20 | 2.90 | 3.86 | 4.82 | 3.65 | 5.42 | 7.61 | 6.78 | 7.35 | 6.64 | 6.47 |
| 7 | 5.66 | 4.26 | 2.81 | 3.44 | 4.30 | 3.78 | 6.26 | 8.41 | 6.67 | 7.19 | 6.80 | 6.54 |
| 8 | 5.32 | 4.26 | 2.84 | 3.11 | 3.75 | 3.59 | 6.63 | 8.33 | 6.74 | 7.18 | 7.02 | 6.68 |
| 9 | 5.31 | 4.20 | 2.90 | 3.12 | 3.73 | 3.48 | 6.52 | 8.22 | 7.03 | 7.32 | 6.74 | 6.73 |
| 10 | 5.07 | 4.06 | 3.20 | 3.20 | 3.84 | 3.41 | 5.92 | 8.05 | 7.06 | 7.82 | 6.62 | 6.61 |
| 11 | 4.82 | 4.00 | 3.35 | 3.10 | 4.15 | 3.31 | 5.55 | 7.48 | 6.68 | 8.43 | 6.76 | 6.70 |
| 12 | 4.71 | 4.52 | 3.42 | 3.10 | 4.16 | 3.57 | 5.68 | 6.90 | 6.68 | 8.44 | 6.77 | 6.55 |
| 13 | 4.69 | 4.39 | 3.17 | 3.53 | 4.10 | 3.94 | 6.10 | 6.49 | 6.67 | 7.29 | 6.38 | 6.50 |
| 14 | 4.78 | 4.45 | 3.17 | 4.03 | 3.95 | 3.97 | 6.42 | 6.38 | --- | 7.23 | 6.32 | 6.41 |
| 15 | 5.03 | 4.27 | 3.10 | 4.96 | 3.69 | 4.15 | 6.82 | 6.85 | --- | 7.44 | 6.49 | 6.18 |
| 16 | 4.90 | 3.39 | 3.23 | 7.08 | 3.28 | 4.47 | 7.02 | 6.84 | 6.98 | 7.17 | 6.70 | 6.00 |
| 17 | 4.82 | 2.87 | 3.75 | 8.13 | 2.98 | 4.87 | 6.79 | 6.70 | 6.98 | 6.88 | 6.71 | 5.91 |
| 18 | 4.91 | 2.81 | 4.06 | 8.38 | 2.97 | 5.15 | 6.62 | 6.77 | 7.09 | 6.60 | 6.56 | 5.90 |
| 19 | 4.74 | 2.55 | 4.15 | 7.99 | 3.17 | 5.63 | 6.98 | 6.27 | 6.91 | 6.43 | 6.52 | 6.08 |
| 20 | 4.40 | 2.12 | 4.47 | 7.49 | 3.22 | 5.73 | 7.20 | 6.28 | 6.71 | 6.41 | 6.41 | 6.13 |
| 21 | 4.54 | 2.30 | 4.49 | 6.87 | 3.43 | 5.39 | 7.15 | 6.52 | 6.61 | 6.90 | 6.72 | 6.36 |
| 22 | 4.84 | 2.53 | 4.11 | 5.87 | 3.63 | 4.73 | 7.08 | 6.84 | 6.80 | 6.73 | 6.80 | 6.45 |
| 23 | 4.75 | 2.70 | 3.80 | 4.82 | 3.95 | 4.06 | 7.02 | 6.93 | 6.96 | 6.81 | 6.79 | 6.08 |
| 24 | 4.67 | 2.93 | 3.43 | 4.59 | 4.09 | 4.22 | 6.87 | 6.74 | 7.05 | 6.86 | 6.66 | 5.72 |
| 25 | 4.48 | 3.20 | 3.18 | 4.53 | 3.95 | 4.11 | 6.64 | 6.75 | 6.96 | 6.78 | 6.49 | 5.51 |
| 26 | 4.19 | 3.45 | 3.81 | 4.51 | 3.93 | 3.82 | 6.57 | 6.92 | 6.78 | 6.83 | 6.61 | 5.53 |
| 27 | 4.19 | 3.45 | 4.72 | 4.44 | 3.98 | 3.86 | 6.76 | 6.86 | 6.58 | 6.92 | 6.60 | 5.50 |
| 28 | 4.27 | 3.37 | 5.10 | 4.35 | 3.84 | 4.11 | 7.06 | 6.80 | 6.54 | 6.82 | 6.59 | 5.52 |
| 29 | 4.03 | 3.38 | 5.43 | 4.08 | --- | 4.93 | 7.17 | 6.66 | 6.75 | 6.73 | 6.59 | 5.81 |
| 30 | 4.00 | 3.38 | 5.35 | 4.29 | --- | 4.81 | 7.26 | 6.33 | 6.84 | 6.58 | 6.64 | 6.05 |
| 31 | 3.94 | --- | 5.08 | 4.96 | --- | 4.50 | --- | 6.31 | --- | 6.51 | 6.79 | --- |
| Mean | 4.93 | 3.58 | 3.69 | 4.94 | 4.09 | 4.17 | 6.30 | 7.05 | --- | 7.02 | 6.67 | 6.25 |
| Max | 6.04 | 4.52 | 5.43 | 8.38 | 5.80 | 5.73 | 7.26 | 8.41 | --- | 8.44 | 7.02 | 6.91 |
| Min | 3.94 | 2.12 | 2.81 | 3.10 | 2.97 | 3.31 | 4.51 | 6.27 | --- | 6.41 | 6.32 | 5.50 |

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