

Water-Data Report 2011

03571800 BATTLE CREEK NEAR MONTEAGLE, TN

Middle Tennessee-Elk Basin
Guntersville Lake Subbasin

LOCATION.--Lat 35°08'03", long 85°46'15" referenced to North American Datum of 1927, Marion County, TN, Hydrologic Unit 06030001, at bridge on State Route 2 (formerly U.S. Hwy 41/64), 9.2 mi. southeast of Monteagle.

DRAINAGE AREA.--50.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--1955-2011

GAGE.--A standard USGS crest-stage gage consisting of a 9-ft. section of 2-in. diameter galvanized steel pipe with standard Columbus fittings at top and bottom. Gage is mounted to the left downstream wingwall of the bridge. Range in gage height is 7.62 ft. to 19.53 ft. Length of redwood stick is 11.90 ft.

A standard USGS direct read outside staff plate was added to this site on March 28, 2001. The staff plate ranges from gage height 0.00 ft. to 16.90 ft.

REMARKS.--As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected.

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from current meter or indirect measurements of peak flow. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.20 ft., maximum discharge, 10,200 ft³/s, Mar. 12, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.19 ft., maximum discharge, 7,990 ft³/s, Apr. 28, 2011.