

Water-Data Report 2011

03597300 WARTRACE CREEK ABOVE BELL BUCKLE, TN

Lower Tennessee Basin
Upper Duck Subbasin

LOCATION.--Lat 35°37'45", long 86°21'22" referenced to North American Datum of 1927, Bedford County, TN, Hydrologic Unit 06040002, at culvert under county road, 2.7 mi. north of Bell Buckle.

DRAINAGE AREA.--4.99 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--1966-2011

GAGE.--Two standard crest-stage gages. Upstream crest-stage is one section consisting of 7.98 ft of 2-in. galvanized pipe with standard Columbus fittings at top and bottom mounted on the landward side of right pier of watergate on the upstream side of culvert. Range in stage is from gage height 4.27 ft to 12.25 ft. Redwood stick is 7.98 ft long. Downstream crest-stage is one section consisting of 11.98 ft of 2-in. galvanized pipe with standard Columbus fittings at top and bottom mounted on the left downstream wingwall. Range in stage is from gage height 3.33 ft to 15.31 ft. Redwood stick is 11.98 ft long.

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.

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, 12.64 ft., maximum discharge, 3,220 ft³/s, March 15, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.73 ft., maximum discharge, 895 ft³/s, Apr. 27, 2011.