

Water-Data Report 2011

03583300 RICHLAND CREEK NEAR CORNERSVILLE, TN

Middle Tennessee-Elk Basin
Lower Elk Subbasin

LOCATION.--Lat 35°19'09.44", long 86°52'19.67" referenced to North American Datum of 1927, Marshall County, TN, Hydrologic Unit 06030004, at bridge on U.S. Highway 31A, 0.1 mi. downstream from Corn Creek, 1.7 mi. downstream from railroad bridge, 2.0 mi. downstream from Town Creek, and 3.4 mi. southwest of Cornersville, Marshall County, TN.

DRAINAGE AREA.--47.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous-record gage, 1962-68; Crest-stage gage, 1969-2011

GAGE.--Standard crest-stage gage in two sections consisting of 2-inch galvanized pipe with standard Columbus fittings at top and bottom.

One section is a 6 ft length of pipe attached to the downstream end of second pier from right abutment. Range in stage is from 7.63 to 13.62 ft. Redwood stick is 5.99 ft long.

Second section is a 10 ft length of pipe attached to the right downstream wingwall. Range in stage is from 13.67 to 24.78 ft. Redwood stick is 11.11 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, 19.33 ft., discharge not determined, Jan. 23, 2006.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.70 ft., discharge 5,040 ft³/s, Apr. 28, 2011.