Water-Data Report 2012

08094800 North Bosque River at Hico, TX

Middle Brazos-Bosque Basin
North Bosque Subbasin

LOCATION.--Lat 31°58′35″, long 98°01′57″ referenced to North American Datum of 1927, Hamilton County, TX, Hydrologic Unit 12060204, on right bank at downstream side of bridge in Hico City Park, 700 ft downstream of U.S. Highway 281, 2.7 mi downstream from Gilmore Creek, 4.9 mi upstream from Honey Creek, and 92.3 mi upstream from mouth.

DRAINAGE AREA.--359 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1962 to Sept. 1998 (daily mean discharge), Oct. 1998 to current year (peaks above base discharge).

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Sept. 1991 to Mar. 1994.
BIOCHEMICAL DATA: Sept. 1991 to Mar. 1994.
BIOLOGICAL DATA: Sept. 1991 to Feb. 1994.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 977.46 ft above NGVD of 1929. Prior to Jan. 20, 2000, at datum of 982.46 ft above NGVD of 1929. Prior to Aug. 9, 2006, water-stage recorder and crest-stage gage located 700 ft upstream on downstream left bank of U.S. Highway 281 at same datum. Satellite telemeter at station.

REMARKS.--Records good. Some records listed in the Period of Record for surface water and water quality may not be available electronically. Since installation of gage, at least 10% of contributing drainage area has been regulated. At times flow is affected by discharge from floodwater-retarding structures controlling runoff from 202 mi^2 in the North Bosque River and Green Creek drainage basins. The City of Stephenville discharges wastewater effluent into the river above this station. No known diversions.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--36 years (water years 1963-98), 68.6 ft^3/s (49,710 acre-ft/year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft^3/s Dec. 20, 1991 (gage height, 23.27 ft).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, 27.6 ft May 23, 1952, from floodmarks (discharge, 87,800 ft^3/s, by contracted-opening measurement).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 25	1100	*11,700	*20.45

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 08094800, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/08094800.2012.pdf