

Water-Data Report 2008

03204000 GUYANDOTTE RIVER AT BRANCLAND, WV

Guyandotte Basin
Lower Guyandotte Subbasin

LOCATION.--Lat 38°13'15", long 82°12'10" referenced to North American Datum of 1927, Lincoln County, WV, Hydrologic Unit 05070102, on right bank at upstream side of highway bridge, opposite mouth of Fourmile Creek, and at mile 35.3.

DRAINAGE AREA.--1,224 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1915 to September 1917 (daily discharge and annual maxima, monthly discharge only for some periods published in WSP 1305), October 1917 to September 1921 (daily mean gage height and annual maxima), October 1921 to September 1922 (annual maxima), January 1929 to September 1974 (daily discharge and peaks, monthly discharge only for January to March 1929 published in WSP 1305), October 1974 to September 1995 (daily discharge and annual maxima), October 1995 to September 1999 (annual maximum gage height), October 1999 to September 2000 (annual maxima), October 2000 to current year (annual maximum gage height). Prior to October 1959, published as Guyandot River at Branchland.

REVISED RECORDS.--WSP 853: 1918(M). WSP 1335: 1916-17, 1929-30 1932-35. WDR WV-82-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 548.07 ft above NAVD 88 (548.70 ft above NGVD 29; 547.91 ft above COE 12). Prior to June 20, 1932, nonrecording gage, and June 20, 1932 to Oct. 24, 1968, water-stage recorder at site 20 ft downstream at same datum. Oct. 1, 1942 to Jan. 23, 1969, auxiliary nonrecording gage, and Jan. 24, 1969 to Dec. 12, 1986, auxiliary water-stage recorder at site 4.0 mi upstream at datum 4.99 ft higher.

REMARKS.--Flow regulated since February 1980 by R.D. Bailey Dam at mile 112.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--53 years (water years 1916, 1917, 1929-79), 1,649 ft³/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood, probably in 1907, reached a stage of 44 ft, from floodmarks, discharge, 43,500 ft³/s.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--Maximum discharge, 44,500 ft³/s, Mar. 13, 1963, gage height, 43.83 ft; minimum, 3.6 ft³/s, Oct. 25, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 16.58 ft, Mar. 8.

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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to November 1976, February to September 1977.

WATER TEMPERATURE: March to December 1976, February to September 1977.

TURBIDITY: October 1975 to December 1976.

SUSPENDED SEDIMENT RECORDS: March 1976 to September 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 845 microsiemens, Aug. 27, 1976; minimum daily, 108 microsiemens, Feb. 11, 1977.

WATER TEMPERATURE: Maximum daily, 32.0°C, July 14, 1977; minimum daily, 1.0°C several days in February 1977.

TURBIDITY: Maximum daily, 200 JTU, Mar. 21, Aug. 15, 1976; minimum daily, 1 JTU on several days in 1976.

SEDIMENT CONCENTRATION: Maximum daily mean, 3,250 mg/L, Dec. 9, 1976; minimum daily mean, 5 mg/L, Oct. 24, 1976, July 17, 20, 1977.

SEDIMENT LOAD: Maximum daily, 205,000 tons, Apr. 5, 1977; minimum daily, 2.3 tons, July 20, 1977.