



Water-Data Report 2009

05385000 ROOT RIVER NEAR HOUSTON, MN

Upper Mississippi Basin
Root Subbasin

LOCATION.--Lat 43°46'07", long 91°34'11" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.33, T.104 N., R.6 W., Houston County, MN, Hydrologic Unit 07040008, on right bank 0.2 mi north of Houston and 1.6 mi upstream from South Fork and 18.2 mi upstream from mouth.

DRAINAGE AREA.--1,250 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1909 to September 1917, May to November 1929, March 1930 to 1983, 1991 to September 2000, and January 2004 to September 2008. Operated as high-flow partial-record station October 1983 to September 1990 and October 2000 to December 2003, and October 2008 to present. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1508: 1911-12. WSP 1628: 1948(P).

GAGE.--Water-stage recorder. Datum of gage is 667.00 ft above sea level (NGVD of 1929). May 28, 1909 to Sept. 30, 1917, non-recording gage at site 1.3 mi downstream at different datum. May 4, 1929 to Sept. 27, 1933, non-recording gage and Sept. 28, 1933 to June 26, 1980, recording gage at site 0.9 mi upstream at datum 671.86 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,000 ft³/s (from rating curve extended above 28,000 ft³/s), Aug. 17, 2007, gage height, 18.15 ft (from highwater mark); maximum gage height, 18.32 ft, (backwater from ice, site located 0.9 miles upstream).

**MAXIMUM PEAK DISCHARGE
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft ³ /s	Discharge qualification code	Gage height, in ft	Gage height qualification code	Peak gage height date	Peak gage height, in ft	Peak gage height qualification code
Jun 10, 2009	4,070	---	8.28	2	Feb 11, 2009	12.78	1

Gage height qualification code:

2 - Gage height not the maximum for the year

Peak gage height qualification code:

1 - Peak gage height affected by backwater