

# STREAM FLOW

**Mouse River, Minot**  
(Water Years 1903-2013)  
Annual Mean: 179  
Max. Peak (6/25/11): 26,900  
Lowest Daily Mean: 0  
Annual Runoff: 129,600

**Mouse River, Westhope**  
(Water Years 1929-2013)  
Annual Mean: 335  
Max. Peak (7/5/11): 30,400  
Lowest Daily Mean: 0  
Annual Runoff: 242,700

**Mauvais Coulee, Cando**  
(Water Years 1956-2012)  
Annual Mean: 19.7  
Max. Peak (4/15/11): 3,770  
Lowest Daily Mean: 0  
Annual Runoff: 14,260

**Sheyenne River, Warwick**  
(Water Years 1950-2013)  
Annual Mean: 92.3  
Max. Peak (4/11/11): 8,200  
Lowest Daily Mean: 0  
Annual Runoff: 66,860

**Pembina River, Nече**  
(Water Years 1903-2012)  
Annual Mean: 260  
Max. Peak (4/20/09): 16,900  
Lowest Daily Mean: 0  
Annual Runoff: 188,400

**Red River, Drayton**  
(Water Years 1949-2012)  
Annual Mean: 4,899  
Max. Peak (4/24/97): 124,000  
Lowest Daily Mean: 110  
Annual Runoff: 3,549,000

**Yellowstone River, Sidney, MT**  
(Water Years 1967-2012)\*  
Annual Mean: 12,010  
Max. Peak (5/24/11): 124,000  
Lowest Daily Mean: 800  
Annual Runoff: 8,701,000  
\*Annual Runoff after Bighorn Lake reached operational level.

**Park River, Grafton**  
(Water Years 1931-2012)  
Annual Mean: 70.4  
Max. Peak (4/19/50): 12,600  
Lowest Daily Mean: 0  
Annual Runoff: 50,980

**Missouri River, Culbertson, MT**  
(Water Years 1958-2013)\*  
Annual Mean: 10,120  
Max. Peak (6/16/11): 104,000  
Lowest Daily Mean: 2,000  
Annual Runoff: 7,330,000  
\*Annual Runoff after operational level of Fort Peck was reached.

**Forest River, Minto**  
(Water Years 1944-2012)  
Annual Mean: 59.2  
Max. Peak (4/18/50): 16,600  
Lowest Daily Mean: 0  
Annual Runoff: 42,890

**Little Missouri River, Watford City**  
(Water Years 1935-2012)  
Annual Mean: 548  
Max. Peak (3/25/47): 110,000  
Lowest Daily Mean: 0  
Annual Runoff: 396,900

**Goose River, Hillsboro**  
(Water Years 1931-2012)  
Annual Mean: 115  
Max. Peak (4/21/79): 14,800  
Lowest Daily Mean: 0  
Annual Runoff: 82,980

**Little Missouri River, Medora**  
(Water Years 1903-2012)  
Annual Mean: 459  
Max. Peak (3/23/47): 65,000  
Lowest Daily Mean: 0  
Annual Runoff: 332,4000

**Red River, Fargo**  
(Water Years 1901-2012)  
Annual Mean: 802  
Max. Peak (3/28/09): 29,500  
Lowest Daily Mean: 0  
Annual Runoff: 581,100

**Heart River, Richardton**  
(Water Years 1903-2013)  
Annual Mean: 97.5  
Max. Peak (4/16/50): 23,400  
Lowest Daily Mean: 0  
Annual Runoff: 70,620

**Maple River, Enderlin**  
(Water Years 1956-2012)  
Annual Mean: 74.1  
Max. Peak (6/30/75): 7,610  
Lowest Daily Mean: 0.1  
Annual Runoff: 53,670

**Knife River, Hazen**  
(Water Years 1929-2013)  
Annual Mean: 168  
Max. Peak (6/24/66): 35,300  
Lowest Daily Mean: 0  
Annual Runoff: 121,600

**Heart River, Mandan**  
(Water Years 1924-2012)  
Annual Mean: 268  
Max. Peak (4/19/50): 30,500  
Lowest Daily Mean: 0  
Annual Runoff: 193,800

**James River, LaMoure**  
(Water Years 1950-2012)  
Annual Mean: 212  
Max. Peak (4/15/09): 12,200  
Lowest Daily Mean: 0  
Annual Runoff: 153,900

**Sheyenne River, Lisbon**  
(Water Years 1957-2013)  
Annual Mean: 279  
Max. Peak (4/16/09): 9,250  
Lowest Daily Mean: 0  
Annual Runoff: 201,800

**Cannonball River, Breien**  
(Water Years 1934-2012)  
Annual Mean: 248  
Max. Peak (4/19/50): 94,800  
Lowest Daily Mean: 0  
Annual Runoff: 179,400

**Missouri River, Bismarck**  
(Water Years 1954-2012)\*  
Annual Mean: 22,000  
Max. Peak (6/25/11): 155,000  
Lowest Daily Mean: 4,000  
Annual Runoff: 16,300,000  
\*Annual Runoff since completion of Garrison Dam

**James River, Grace City**  
(Water Years 1968-2013)  
Annual Mean: 70.3  
Max. Peak (4/11/11): 8,140  
Lowest Daily Mean: 0  
Annual Runoff: 50,910

## Stream Flow Definitions

**Note:** Annual Mean, Max. Peak Flow, and Lowest Daily Mean are reported in cubic feet per second. Annual Runoff is reported in acre-feet. Definitions:

- Annual Mean** - The arithmetic mean for the individual daily mean discharges for the reported water years.
- Max. Peak Flow** - The maximum instantaneous peak discharge that occurred during the reported water years.
- Lowest Daily Mean** - The minimum daily mean discharge for the reported water years.
- Annual Runoff** - The total quantity of water in runoff for a drainage area for the year.
- Acre-Feet** - The quantity of water required to cover one acre to a depth of one foot.
- Cubic Feet Per Second** - The rate of discharge representing a volume of one cubic foot passing a given point in one second.

