



Water-Data Report 2011

**13142500 BIG WOOD RIVER BELOW MAGIC DAM, NEAR RICHFIELD, ID**

Upper Snake Basin  
Big Wood Subbasin

LOCATION.--Lat 43°14'53", long 114°21'24" referenced to North American Datum of 1983, in SE ¼ NE ¼ SE ¼ sec.18, T.2 S., R.18 E., Blaine County, ID, Hydrologic Unit 17040219, Fairfield quad., U.S. Bureau of Land Management lands, on right bank, 0.5 mi downstream from Magic Dam, 18 mi northwest of Richfield, and at mile 67.0.

DRAINAGE AREA.--1,611 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1911 to current year (no winter records 1912).

REVISED RECORDS.--WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,661.6 ft above NGVD of 1929.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Flow regulated by Magic Reservoir 0.5 mi upstream (see station 13142000), Mormon Reservoir on tributary of Camas Creek (capacity, 31,240 acre-ft), and smaller reservoirs having combined capacity of about 680 acre-ft. Diversions above station for irrigation of about 32,600 acres, of which about 1,900 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft<sup>3</sup>/s Apr. 26, 1952, gage height, 15.68 ft, from floodmark; no flow Feb. 3, 1915, Dec. 21-23, 1988, Nov. 18-21, Dec. 9, 10, 1992, Oct. 19-22, 26, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,030 ft<sup>3</sup>/s June 26; minimum daily, 4.0 ft<sup>3</sup>/s Oct. 1, 2, 25.



**13142500 BIG WOOD RIVER BELOW MAGIC DAM, NEAR RICHFIELD, ID—Continued****SUMMARY STATISTICS**

|                                 | <b>Calendar Year 2010</b> | <b>Water Year 2011</b> |           | <b>Water Years 1911 - 2011</b> |                    |
|---------------------------------|---------------------------|------------------------|-----------|--------------------------------|--------------------|
| <b>Annual total</b>             | 98,907.4                  |                        | 168,265.3 |                                |                    |
| <b>Annual mean</b>              | 271                       |                        | 461       |                                | 461                |
| <b>Highest annual mean</b>      |                           |                        |           | 1,215                          | 1983               |
| <b>Lowest annual mean</b>       |                           |                        |           | 76.2                           | 1992               |
| <b>Highest daily mean</b>       | 863                       | Jul 18                 | 2,030     | Jun 26                         | 9,800 Apr 26, 1952 |
| <b>Lowest daily mean</b>        | 2.7                       | Sep 25                 | 4.0       | Oct 1                          | 0.00 Feb 3, 1915   |
| <b>Annual seven-day minimum</b> | 3.5                       | Sep 25                 | 4.4       | Oct 20                         | 0.03 Oct 19, 1994  |
| <b>Annual runoff (ac-ft)</b>    | 196,200                   |                        | 333,800   |                                | 333,700            |
| <b>10 percent exceeds</b>       | 823                       |                        | 1,280     |                                | 1,190              |
| <b>50 percent exceeds</b>       | 5.8                       |                        | 6.6       |                                | 31                 |
| <b>90 percent exceeds</b>       | 4.4                       |                        | 5.1       |                                | 2.7                |

