

Water-Data Report 2013

**13181000 OWYHEE RIVER NEAR ROME, OR**

Middle Snake-Boise Basin  
Middle Owyhee Subbasin

LOCATION.--Lat 42°51'59", long 117°38'57" referenced to North American Datum of 1983, in SE ¼ NE ¼ sec.14, T.31 S., R.41 E., Malheur County, OR, Hydrologic Unit 17050107, on right bank, 0.5 mi downstream from Jordan Creek, 2.6 mi north of Rome and at mile 122.4.

DRAINAGE AREA.--8,000 mi<sup>2</sup>, approximately.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,344.20 ft above NGVD of 1929. Prior to Feb. 10, 1960, at datum 0.24 ft lower.

REMARKS.--Records good except for estimated discharges, which are poor. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft, increased in 1970, by Wild Horse Reservoir, capacity, 32,690 acre-ft and by numerous small reservoirs. Diversions upstream from station for irrigation. Continuous water-quality records for October 1972 to June 1977 have been collected at this location.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--64 years (water years 1950-2013), 918 ft<sup>3</sup>/s, 665,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,700 ft<sup>3</sup>/s Mar. 18, 1993, gage height, 20.11 ft; minimum discharge, 42 ft<sup>3</sup>/s Aug. 12, 1954, July 28, Aug. 5, 1961, July 31, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,170 ft<sup>3</sup>/s Mar. 17, gage height, 4.86 ft; minimum daily discharge, 55 ft<sup>3</sup>/s July 23.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MEAN VALUES**  
[e, estimated]

| Day          | Oct   | Nov   | Dec    | Jan    | Feb    | Mar    | Apr    | May   | Jun   | Jul   | Aug   | Sep   |
|--------------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1            | 93    | 124   | 139    | 138    | 292    | 239    | 440    | 188   | 143   | 95    | 76    | 83    |
| 2            | 96    | 124   | 139    | 122    | 334    | 258    | 443    | 179   | 152   | 97    | 73    | 82    |
| 3            | 97    | 124   | 146    | 118    | 322    | 435    | 450    | 170   | 150   | 87    | 75    | 83    |
| 4            | 100   | 124   | 148    | 123    | 309    | 722    | 432    | 163   | 142   | 84    | 70    | 87    |
| 5            | 100   | 124   | 161    | 126    | 298    | 1,130  | 411    | 154   | 123   | 87    | 64    | 89    |
| 6            | 100   | 124   | 210    | 146    | 317    | 988    | 404    | 146   | 124   | 86    | 65    | 92    |
| 7            | 101   | 124   | 280    | 148    | 320    | 912    | 402    | 138   | 129   | 86    | 65    | 100   |
| 8            | 109   | 126   | 227    | 154    | 324    | 986    | 394    | 136   | 148   | 80    | 67    | 103   |
| 9            | 110   | 126   | 196    | 162    | 318    | 827    | 377    | 138   | 133   | 78    | 68    | 113   |
| 10           | 108   | 126   | 198    | 162    | 300    | 676    | 358    | 132   | 124   | 72    | 68    | 107   |
| 11           | 107   | 126   | 185    | e155   | 292    | 607    | 349    | 128   | 110   | 71    | 66    | 99    |
| 12           | 110   | 126   | 180    | e130   | 262    | 644    | 337    | 129   | 108   | 71    | 65    | 94    |
| 13           | 112   | 128   | 178    | e135   | 262    | 960    | 321    | 127   | 109   | 72    | 64    | 94    |
| 14           | 108   | 130   | 188    | e140   | 252    | 2,080  | 294    | 148   | 112   | 71    | 60    | 100   |
| 15           | 107   | 131   | 187    | e145   | 242    | 2,680  | 273    | 149   | 109   | 69    | 59    | 101   |
| 16           | 109   | 130   | 178    | e145   | 240    | 2,760  | 272    | 140   | 109   | 68    | 58    | 112   |
| 17           | 110   | 135   | 167    | e135   | 272    | 2,740  | 267    | 143   | 105   | 68    | 62    | 113   |
| 18           | 110   | 135   | 166    | e140   | 308    | 2,150  | 257    | 143   | 100   | 65    | 69    | 122   |
| 19           | 112   | 136   | 169    | e145   | 294    | 1,430  | 256    | 138   | 98    | 59    | 73    | 112   |
| 20           | 114   | 138   | 157    | e145   | 312    | 1,050  | 258    | 133   | 99    | 57    | 68    | 109   |
| 21           | 117   | 138   | 140    | e150   | 297    | 1,960  | 247    | 132   | 98    | 56    | 64    | 104   |
| 22           | 117   | 138   | 163    | e145   | 278    | 2,430  | 228    | 131   | 110   | 56    | 64    | 100   |
| 23           | 119   | 139   | 160    | e150   | 278    | 1,330  | 214    | 142   | 110   | 55    | 161   | 95    |
| 24           | 119   | 141   | 159    | 163    | 261    | 904    | 218    | 150   | 110   | 61    | 94    | 104   |
| 25           | 122   | 142   | 159    | 166    | 246    | 654    | 218    | 148   | 116   | 62    | 79    | 116   |
| 26           | 124   | 140   | 149    | 170    | 246    | 541    | 205    | 148   | 119   | 65    | 77    | 117   |
| 27           | 123   | 138   | 145    | 243    | 243    | 492    | 193    | 146   | 117   | 66    | 84    | 117   |
| 28           | 124   | 139   | 159    | 334    | 229    | 490    | 183    | 155   | 108   | 60    | 92    | 115   |
| 29           | 124   | 146   | 157    | 298    | ---    | 496    | 181    | 158   | 102   | 58    | 91    | 121   |
| 30           | 124   | 143   | 147    | 282    | ---    | 470    | 185    | 150   | 99    | 58    | 89    | 117   |
| 31           | 125   | ---   | 152    | 263    | ---    | 445    | ---    | 146   | ---   | 73    | 85    | ---   |
| <b>Total</b> | 3,451 | 3,965 | 5,289  | 5,178  | 7,948  | 34,486 | 9,067  | 4,528 | 3,516 | 2,193 | 2,315 | 3,101 |
| <b>Mean</b>  | 111   | 132   | 171    | 167    | 284    | 1,112  | 302    | 146   | 117   | 70.7  | 74.7  | 103   |
| <b>Max</b>   | 125   | 146   | 280    | 334    | 334    | 2,760  | 450    | 188   | 152   | 97    | 161   | 122   |
| <b>Min</b>   | 93    | 124   | 139    | 118    | 229    | 239    | 181    | 127   | 98    | 55    | 58    | 82    |
| <b>Ac-ft</b> | 6,850 | 7,860 | 10,490 | 10,270 | 15,760 | 68,400 | 17,980 | 8,980 | 6,970 | 4,350 | 4,590 | 6,150 |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2013, BY WATER YEAR (WY)

|             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Mean</b> | 158    | 206    | 385    | 655    | 1,103  | 2,364  | 2,842  | 1,946  | 859    | 246    | 146    | 134    |
| <b>Max</b>  | 442    | 593    | 2,898  | 4,461  | 8,820  | 9,404  | 16,960 | 10,470 | 4,870  | 1,035  | 452    | 361    |
| <b>(WY)</b> | (1976) | (1971) | (1965) | (1971) | (1986) | (1972) | (1952) | (1984) | (1984) | (1984) | (1984) | (1984) |
| <b>Min</b>  | 85.3   | 107    | 104    | 114    | 129    | 233    | 144    | 86.5   | 89.6   | 61.2   | 56.0   | 62.5   |
| <b>(WY)</b> | (1955) | (1955) | (1955) | (1955) | (1955) | (1977) | (1992) | (1992) | (1992) | (1968) | (1992) | (1955) |

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## SUMMARY STATISTICS

|                                 | Calendar Year 2012 |        | Water Year 2013 |        | Water Years 1950 - 2013 |              |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| <b>Annual total</b>             | 119,810            |        | 85,037          |        |                         |              |
| <b>Annual mean</b>              | 327                |        | 233             |        | 918                     |              |
| <b>Highest annual mean</b>      |                    |        |                 |        | 3,400                   | 1984         |
| <b>Lowest annual mean</b>       |                    |        |                 |        | 162                     | 1992         |
| <b>Highest daily mean</b>       | 2,320              | Apr 1  | 2,760           | Mar 16 | 46,900                  | Mar 18, 1993 |
| <b>Lowest daily mean</b>        | 73                 | Aug 18 | 55              | Jul 23 | 44                      | Aug 1, 1968  |
| <b>Annual seven-day minimum</b> | 77                 | Sep 9  | 58              | Jul 19 | 47                      | Jul 26, 1968 |
| <b>Annual runoff (ac-ft)</b>    | 237,600            |        | 168,700         |        | 665,000                 |              |
| <b>10 percent exceeds</b>       | 762                |        | 397             |        | 2,420                   |              |
| <b>50 percent exceeds</b>       | 159                |        | 138             |        | 226                     |              |
| <b>90 percent exceeds</b>       | 85                 |        | 71              |        | 107                     |              |

