

Water-Data Report 2013

## 14103000 DESCHUTES RIVER AT MOODY, NEAR BIGGS, OR

Deschutes Basin  
Lower Deschutes Subbasin

LOCATION.--Lat 45°37'20", long 120°54'16" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.26, T.2 N., R.15 E., Sherman County, OR, Hydrologic Unit 17070306, on right bank, at Moody, 4.0 mi southwest of Biggs and at mile 1.4.

DRAINAGE AREA.--10,500 mi<sup>2</sup>, approximately.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1897 to December 1899 (published as "near Moro"), July 1906 to current year. Monthly discharge only for some periods, published in WSP 1318.

REVISED RECORDS.--WSP 754: Drainage area. WDR OR-96-1: 1965(M).

GAGE.--Water-stage recorder. Datum of gage is 167.54 ft above NGVD of 1929. Oct. 19, 1897 to Dec. 31, 1899, nonrecording gage at site 10 mi upstream at different datum. July 22, 1906 to July 18, 1930, nonrecording gage at site 300 ft downstream at datum 0.50 ft lower.

REMARKS.--No estimated daily discharges. Records good. Some fluctuation caused by Lake Simtustus and reregulating reservoir since 1957 (combined capacity for normal operation, 6,500 acre-ft). Some winter and spring runoff stored in Ochoco Reservoir (active capacity, 39,600 acre-ft, from survey completed in 1990), in Crescent Lake, Crane Prairie and Wickiup Reservoirs (combined active capacity, 342,200 acre-ft), and since 1960 in Prineville Reservoir (active capacity, 148,600 acre-ft, from survey completed in 1998), and since 1964 in Lake Billy Chinook (station 14092100). Large diversions in upper basin for irrigation.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--52 years (water years 1898-99, 1907-56), 5,851 ft<sup>3</sup>/s, 7.57 in/yr, 4,239,000 acre-ft/yr. 109 years (water years 1898-99, 1907-2013), 5,824 ft<sup>3</sup>/s, 4,219,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,300 ft<sup>3</sup>/s Feb. 8, 1996, gage height, 12.08 ft, from rating curve extended above 47,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum discharge, 2,400 ft<sup>3</sup>/s Dec. 5, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,700 ft<sup>3</sup>/s Dec. 5, 6, gage height, 4.08 ft; minimum discharge, 4,300 ft<sup>3</sup>/s July 26, 27, 29.

## 14103000 DESCHUTES RIVER AT MOODY, NEAR BIGGS, OR—Continued

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

| Day          | Oct     | Nov     | Dec     | Jan     | Feb     | Mar     | Apr     | May     | Jun     | Jul     | Aug     | Sep     |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1            | 4,430   | 6,030   | 5,680   | 5,820   | 5,880   | 5,650   | 6,320   | 5,720   | 5,650   | 5,130   | 4,420   | 4,860   |
| 2            | 4,430   | 5,900   | 6,380   | 5,800   | 5,870   | 5,780   | 6,440   | 5,570   | 5,350   | 5,110   | 4,410   | 4,800   |
| 3            | 4,430   | 5,880   | 6,840   | 5,780   | 5,870   | 5,790   | 6,580   | 5,380   | 5,250   | 5,020   | 4,410   | 4,620   |
| 4            | 4,460   | 5,850   | 6,840   | 5,720   | 5,820   | 5,820   | 6,660   | 5,310   | 5,200   | 4,850   | 4,410   | 4,430   |
| 5            | 4,430   | 5,790   | 8,510   | 5,770   | 5,820   | 5,810   | 6,900   | 5,230   | 5,080   | 4,700   | 4,420   | 4,420   |
| 6            | 4,390   | 5,710   | 8,990   | 5,810   | 5,790   | 5,850   | 7,870   | 5,310   | 4,960   | 4,670   | 4,410   | 4,510   |
| 7            | 4,400   | 5,600   | 8,270   | 5,790   | 5,700   | 5,850   | 8,330   | 5,400   | 4,920   | 4,630   | 4,410   | 4,500   |
| 8            | 4,410   | 5,340   | 8,000   | 6,560   | 5,670   | 5,840   | 8,370   | 5,510   | 4,950   | 4,540   | 4,410   | 4,500   |
| 9            | 4,520   | 5,310   | 7,680   | 7,890   | 5,640   | 5,720   | 8,160   | 5,630   | 4,990   | 4,530   | 4,420   | 4,600   |
| 10           | 4,620   | 5,300   | 7,350   | 7,100   | 5,590   | 5,730   | 7,930   | 5,620   | 5,050   | 4,470   | 4,550   | 4,580   |
| 11           | 4,700   | 5,290   | 7,090   | 6,280   | 5,570   | 5,710   | 7,580   | 5,610   | 5,030   | 4,390   | 4,650   | 4,570   |
| 12           | 4,720   | 5,310   | 6,730   | 5,880   | 5,510   | 5,750   | 7,230   | 5,690   | 5,030   | 4,390   | 4,570   | 4,570   |
| 13           | 4,720   | 5,280   | 6,210   | 5,620   | 5,190   | 5,810   | 7,010   | 5,800   | 5,090   | 4,400   | 4,520   | 4,560   |
| 14           | 4,750   | 5,280   | 6,050   | 5,780   | 5,210   | 5,790   | 6,730   | 5,860   | 5,100   | 4,400   | 4,440   | 4,580   |
| 15           | 4,940   | 5,250   | 5,880   | 5,930   | 5,240   | 5,790   | 6,470   | 5,790   | 5,140   | 4,400   | 4,600   | 4,590   |
| 16           | 5,460   | 5,170   | 5,730   | 5,960   | 5,330   | 5,870   | 6,260   | 5,660   | 5,110   | 4,390   | 4,400   | 4,590   |
| 17           | 6,520   | 5,180   | 6,010   | 6,020   | 5,560   | 5,950   | 6,010   | 5,530   | 5,050   | 4,370   | 4,480   | 4,590   |
| 18           | 6,240   | 5,180   | 6,640   | 6,000   | 5,580   | 5,920   | 5,760   | 5,400   | 5,040   | 4,390   | 4,430   | 4,580   |
| 19           | 5,920   | 5,240   | 6,340   | 5,980   | 5,590   | 5,850   | 5,550   | 5,370   | 5,020   | 4,480   | 4,420   | 4,570   |
| 20           | 5,850   | 5,950   | 6,180   | 5,960   | 5,560   | 5,770   | 5,790   | 5,350   | 4,910   | 4,480   | 4,450   | 4,570   |
| 21           | 5,750   | 7,160   | 6,130   | 5,950   | 5,530   | 6,120   | 5,870   | 5,390   | 4,860   | 4,510   | 4,450   | 4,590   |
| 22           | 5,730   | 6,880   | 6,090   | 5,880   | 5,410   | 6,120   | 5,750   | 5,550   | 4,850   | 4,600   | 4,430   | 4,610   |
| 23           | 5,710   | 6,190   | 6,080   | 5,750   | 5,440   | 6,070   | 5,610   | 5,540   | 4,810   | 4,580   | 4,460   | 4,630   |
| 24           | 5,640   | 6,080   | 6,070   | 5,770   | 5,470   | 6,120   | 5,440   | 5,320   | 4,870   | 4,540   | 4,490   | 4,650   |
| 25           | 5,540   | 6,400   | 6,150   | 5,830   | 5,550   | 6,100   | 5,260   | 5,270   | 5,370   | 4,450   | 4,540   | 4,750   |
| 26           | 5,490   | 6,540   | 6,110   | 5,870   | 5,540   | 6,250   | 5,250   | 5,150   | 5,700   | 4,430   | 4,680   | 4,860   |
| 27           | 5,440   | 6,160   | 6,030   | 5,770   | 5,480   | 6,560   | 5,330   | 5,070   | 5,810   | 4,350   | 4,950   | 4,870   |
| 28           | 5,580   | 5,560   | 5,990   | 5,760   | 5,470   | 6,870   | 5,530   | 5,160   | 5,730   | 4,360   | 5,320   | 4,930   |
| 29           | 6,260   | 5,270   | 5,940   | 5,800   | ---     | 6,910   | 5,750   | 5,330   | 5,460   | 4,380   | 5,390   | 5,250   |
| 30           | 6,970   | 5,320   | 5,870   | 5,810   | ---     | 6,800   | 5,820   | 5,760   | 5,280   | 4,390   | 5,250   | 6,130   |
| 31           | 6,580   | ---     | 5,850   | 5,850   | ---     | 6,420   | ---     | 5,870   | ---     | 4,400   | 5,020   | ---     |
| <b>Total</b> | 163,030 | 171,400 | 203,710 | 185,490 | 155,880 | 186,390 | 193,560 | 170,150 | 154,660 | 140,730 | 142,210 | 140,860 |
| <b>Mean</b>  | 5,259   | 5,713   | 6,571   | 5,984   | 5,567   | 6,013   | 6,452   | 5,489   | 5,155   | 4,540   | 4,587   | 4,695   |
| <b>Max</b>   | 6,970   | 7,160   | 8,990   | 7,890   | 5,880   | 6,910   | 8,370   | 5,870   | 5,810   | 5,130   | 5,390   | 6,130   |
| <b>Min</b>   | 4,390   | 5,170   | 5,680   | 5,620   | 5,190   | 5,650   | 5,250   | 5,070   | 4,810   | 4,350   | 4,400   | 4,420   |
| <b>Ac-ft</b> | 323,400 | 340,000 | 404,100 | 367,900 | 309,200 | 369,700 | 383,900 | 337,500 | 306,800 | 279,100 | 282,100 | 279,400 |

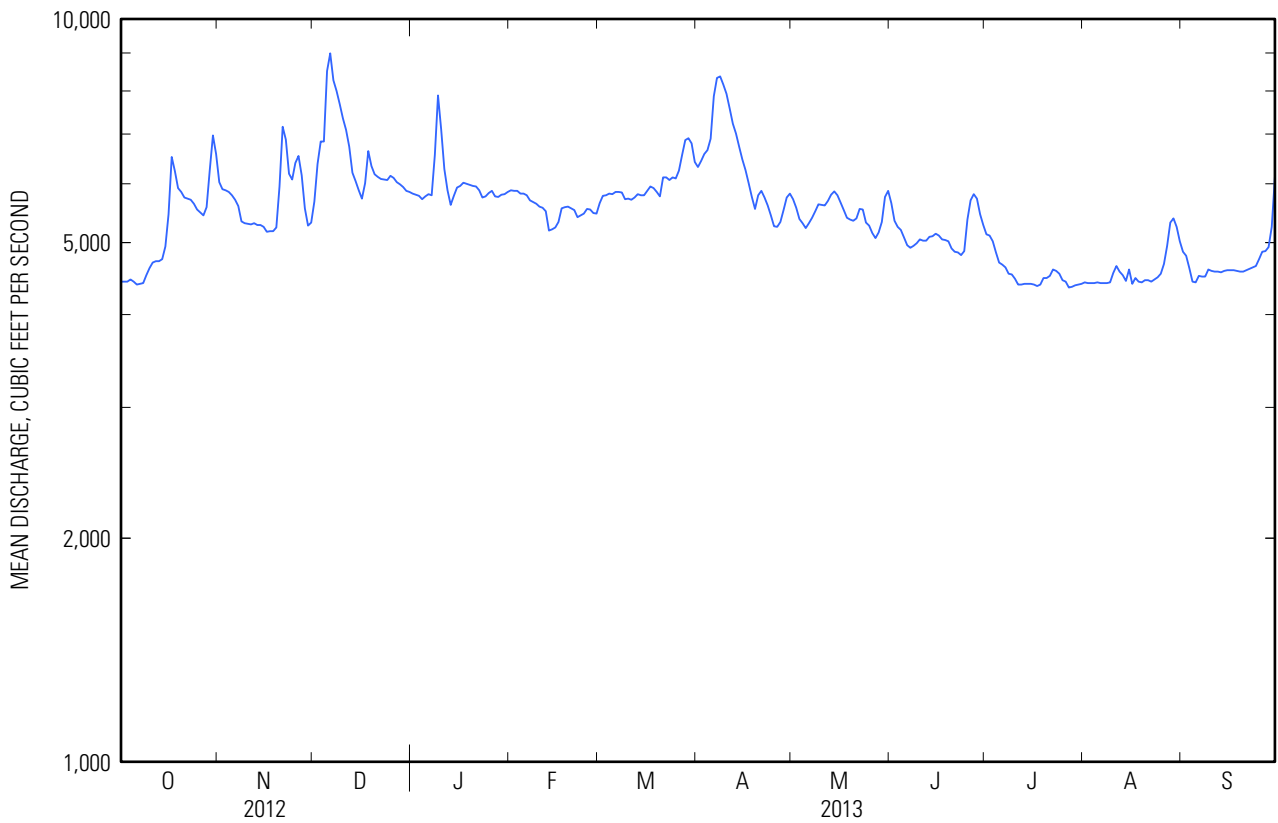
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 2013, BY WATER YEAR (WY)**

|             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Mean</b> | 4,687  | 5,383  | 6,206  | 6,730  | 7,190  | 7,173  | 7,257  | 6,324  | 5,551  | 4,729  | 4,419  | 4,444  |
| <b>Max</b>  | 6,493  | 9,378  | 13,150 | 14,980 | 16,980 | 14,350 | 11,860 | 10,570 | 10,660 | 8,698  | 6,746  | 6,499  |
| <b>(WY)</b> | (1900) | (1910) | (1965) | (1997) | (1996) | (1910) | (1907) | (1899) | (1899) | (1899) | (1899) | (1899) |
| <b>Min</b>  | 3,385  | 3,910  | 4,181  | 4,263  | 4,021  | 4,192  | 4,467  | 4,112  | 3,815  | 3,568  | 3,411  | 3,394  |
| <b>(WY)</b> | (1965) | (1965) | (1932) | (1931) | (1964) | (1964) | (1977) | (1930) | (1931) | (1931) | (1964) | (1964) |

14103000 DESCHUTES RIVER AT MOODY, NEAR BIGGS, OR—Continued

SUMMARY STATISTICS

|                                 | Calendar Year 2012 |        | Water Year 2013 |        | Water Years 1898 - 2013 |             |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|-------------|
| <b>Annual total</b>             | 2,366,100          |        | 2,008,070       |        |                         |             |
| <b>Annual mean</b>              | 6,465              |        | 5,502           |        | 5,824                   |             |
| <b>Highest annual mean</b>      |                    |        |                 |        | 7,969 1997              |             |
| <b>Lowest annual mean</b>       |                    |        |                 |        | 4,188 1931              |             |
| <b>Highest daily mean</b>       | 14,100             | Mar 31 | 8,990           | Dec 6  | 63,400                  | Feb 8, 1996 |
| <b>Lowest daily mean</b>        | 4,390              | Oct 6  | 4,350           | Jul 27 | 2,880                   | Dec 4, 1957 |
| <b>Annual seven-day minimum</b> | 4,420              | Oct 2  | 4,390           | Jul 27 | 3,180                   | Dec 1, 1957 |
| <b>Annual runoff (ac-ft)</b>    | 4,693,000          |        | 3,983,000       |        | 4,219,000               |             |
| <b>10 percent exceeds</b>       | 8,720              |        | 6,490           |        | 8,200                   |             |
| <b>50 percent exceeds</b>       | 6,120              |        | 5,540           |        | 5,260                   |             |
| <b>90 percent exceeds</b>       | 4,630              |        | 4,440           |        | 4,080                   |             |



**14103000 DESCHUTES RIVER AT MOODY, NEAR BIGGS, OR—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1911-12, 1953-58, 1962-90, 2011 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURE: December 1952 to February 1954, November 1954 to September 1958, June 1962 to September 1981, July 2011 to current year.

INSTRUMENTATION.--Temperature probe and data logger.

REMARKS.--

WATER TEMPERATURE: Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 241 microsiemens July 15, 1978; minimum, 63 microsiemens Dec. 5, 1975.

WATER TEMPERATURE: Maximum, 23.1°C July 2, 2013; minimum, 0.5°C Dec. 30, 1955.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 23.1°C July 2; minimum, 3.8°C Jan. 13, 14.

## 14103000 DESCHUTES RIVER AT MOODY, NEAR BIGGS, OR—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

| Day          | Max     | Min  | Mean | Max      | Min  | Mean | Max      | Min | Mean | Max     | Min | Mean |
|--------------|---------|------|------|----------|------|------|----------|-----|------|---------|-----|------|
|              | October |      |      | November |      |      | December |     |      | January |     |      |
| <b>1</b>     | 15.7    | 13.8 | 14.9 | 12.0     | 11.4 | 11.8 | 9.5      | 8.8 | 9.2  | 5.1     | 4.6 | 4.9  |
| <b>2</b>     | 15.5    | 14.0 | 14.8 | 12.0     | 11.1 | 11.5 | 9.5      | 8.9 | 9.2  | 5.0     | 4.8 | 4.9  |
| <b>3</b>     | 14.8    | 12.8 | 13.7 | 12.1     | 11.3 | 11.7 | 9.4      | 8.8 | 9.1  | 5.2     | 4.7 | 4.9  |
| <b>4</b>     | 13.3    | 11.6 | 12.5 | 12.6     | 11.7 | 12.1 | 9.6      | 8.9 | 9.2  | 4.8     | 4.1 | 4.5  |
| <b>5</b>     | 12.9    | 11.2 | 12.1 | 13.1     | 12.0 | 12.6 | 9.5      | 8.7 | 9.2  | 4.6     | 4.0 | 4.4  |
| <b>6</b>     | 12.6    | 10.8 | 11.7 | 12.8     | 12.2 | 12.5 | 8.7      | 7.8 | 8.2  | 5.0     | 4.3 | 4.7  |
| <b>7</b>     | 12.6    | 10.7 | 11.7 | 12.3     | 11.3 | 11.8 | 8.4      | 7.6 | 8.0  | 6.0     | 4.7 | 5.3  |
| <b>8</b>     | 12.7    | 10.9 | 11.9 | 11.3     | 10.2 | 10.9 | 8.2      | 7.7 | 8.0  | 6.7     | 5.9 | 6.4  |
| <b>9</b>     | 13.3    | 11.4 | 12.4 | 10.5     | 9.7  | 10.0 | 8.5      | 8.0 | 8.3  | 6.6     | 6.0 | 6.4  |
| <b>10</b>    | 13.7    | 11.8 | 12.8 | 10.2     | 9.6  | 9.8  | 8.4      | 8.0 | 8.2  | 6.0     | 5.0 | 5.5  |
| <b>11</b>    | 13.7    | 12.1 | 13.0 | 9.7      | 9.4  | 9.6  | 8.3      | 8.0 | 8.2  | 5.5     | 4.8 | 5.1  |
| <b>12</b>    | 13.2    | 12.1 | 12.6 | 10.3     | 9.6  | 9.9  | 8.3      | 7.7 | 8.0  | 4.8     | 4.0 | 4.5  |
| <b>13</b>    | 13.0    | 11.9 | 12.6 | 10.6     | 10.0 | 10.3 | 7.8      | 7.4 | 7.6  | 4.2     | 3.8 | 3.9  |
| <b>14</b>    | 13.5    | 12.6 | 13.0 | 11.1     | 10.1 | 10.6 | 7.5      | 6.9 | 7.3  | 4.6     | 3.8 | 4.2  |
| <b>15</b>    | 13.6    | 12.8 | 13.3 | 10.7     | 9.6  | 10.0 | 6.9      | 6.2 | 6.5  | 5.1     | 4.2 | 4.6  |
| <b>16</b>    | 13.8    | 13.0 | 13.4 | 9.9      | 9.4  | 9.7  | 6.9      | 6.0 | 6.3  | 4.9     | 4.5 | 4.7  |
| <b>17</b>    | 13.3    | 12.0 | 12.7 | 9.8      | 9.5  | 9.7  | 7.5      | 6.8 | 7.1  | 5.0     | 4.5 | 4.8  |
| <b>18</b>    | 12.7    | 11.3 | 12.0 | 9.7      | 9.0  | 9.4  | 7.0      | 6.0 | 6.6  | 5.2     | 4.5 | 4.8  |
| <b>19</b>    | 13.0    | 11.9 | 12.4 | 10.3     | 9.6  | 9.9  | 6.3      | 5.9 | 6.1  | 5.0     | 4.6 | 4.8  |
| <b>20</b>    | 12.8    | 11.5 | 12.0 | 10.9     | 10.2 | 10.5 | 6.9      | 6.3 | 6.6  | 5.0     | 4.5 | 4.7  |
| <b>21</b>    | 11.7    | 10.8 | 11.3 | 10.2     | 9.2  | 9.9  | 7.4      | 6.8 | 7.1  | 4.7     | 4.4 | 4.5  |
| <b>22</b>    | 11.0    | 10.6 | 10.8 | 9.2      | 8.4  | 8.8  | 7.6      | 7.1 | 7.4  | 4.4     | 4.1 | 4.3  |
| <b>23</b>    | 11.2    | 10.0 | 10.6 | 8.7      | 8.3  | 8.5  | 7.1      | 6.6 | 6.8  | 4.4     | 4.0 | 4.2  |
| <b>24</b>    | 11.0    | 10.2 | 10.6 | 9.6      | 8.7  | 9.2  | 6.6      | 6.0 | 6.3  | 5.1     | 4.2 | 4.6  |
| <b>25</b>    | 11.5    | 10.4 | 10.8 | 9.4      | 8.3  | 8.9  | 6.1      | 5.8 | 5.9  | 6.1     | 5.0 | 5.6  |
| <b>26</b>    | 10.8    | 10.4 | 10.6 | 8.3      | 7.9  | 8.1  | 6.5      | 5.7 | 6.1  | 6.5     | 5.8 | 6.1  |
| <b>27</b>    | 11.2    | 9.9  | 10.5 | 8.0      | 7.8  | 7.9  | 6.5      | 5.8 | 6.2  | 6.0     | 5.4 | 5.8  |
| <b>28</b>    | 12.2    | 10.8 | 11.5 | 7.9      | 7.7  | 7.8  | 5.8      | 5.4 | 5.6  | 6.0     | 5.3 | 5.7  |
| <b>29</b>    | 13.1    | 12.1 | 12.5 | 7.8      | 7.6  | 7.7  | 5.6      | 5.2 | 5.4  | 6.4     | 5.8 | 6.1  |
| <b>30</b>    | 12.8    | 12.2 | 12.5 | 8.8      | 7.7  | 8.1  | 5.9      | 5.2 | 5.5  | 7.4     | 6.4 | 6.9  |
| <b>31</b>    | 12.4    | 12.0 | 12.2 | ---      | ---  | ---  | 5.5      | 4.9 | 5.2  | 7.7     | 6.9 | 7.3  |
| <b>Month</b> | 15.7    | 9.9  | 12.2 | 13.1     | 7.6  | 10.0 | 9.6      | 4.9 | 7.2  | 7.7     | 3.8 | 5.1  |

## 14103000 DESCHUTES RIVER AT MOODY, NEAR BIGGS, OR—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

| Day          | Max      | Min | Mean | Max   | Min  | Mean | Max   | Min  | Mean | Max  | Min  | Mean |
|--------------|----------|-----|------|-------|------|------|-------|------|------|------|------|------|
|              | February |     |      | March |      |      | April |      |      | May  |      |      |
| 1            | 7.4      | 6.5 | 6.9  | 9.3   | 7.9  | 8.5  | 12.8  | 10.2 | 11.5 | 13.4 | 10.2 | 11.7 |
| 2            | 7.1      | 6.2 | 6.6  | 8.6   | 7.9  | 8.3  | 12.8  | 10.6 | 11.6 | 14.8 | 11.2 | 12.9 |
| 3            | 6.9      | 5.9 | 6.4  | 8.1   | 6.7  | 7.4  | 12.5  | 10.6 | 11.5 | 16.0 | 12.8 | 14.3 |
| 4            | 7.4      | 6.4 | 6.9  | 7.7   | 6.4  | 7.0  | 11.6  | 10.7 | 11.1 | 15.9 | 12.9 | 14.5 |
| 5            | 7.5      | 6.7 | 7.1  | 7.0   | 6.2  | 6.6  | 11.6  | 10.3 | 10.9 | 16.4 | 13.0 | 14.7 |
| 6            | 7.2      | 6.5 | 6.9  | 6.8   | 6.4  | 6.6  | 11.6  | 10.3 | 10.9 | 16.9 | 13.5 | 15.2 |
| 7            | 7.3      | 6.3 | 6.8  | 7.8   | 6.0  | 6.8  | 11.0  | 10.1 | 10.5 | 17.6 | 14.4 | 16.0 |
| 8            | 6.5      | 5.5 | 6.0  | 8.5   | 6.4  | 7.4  | 11.3  | 9.9  | 10.5 | 17.7 | 14.6 | 16.1 |
| 9            | 6.2      | 5.1 | 5.7  | 8.4   | 6.5  | 7.5  | 11.4  | 9.2  | 10.2 | 18.0 | 14.8 | 16.4 |
| 10           | 6.7      | 5.5 | 6.1  | 8.2   | 6.7  | 7.4  | 12.4  | 10.3 | 11.2 | 18.4 | 15.1 | 16.8 |
| 11           | 6.8      | 5.6 | 6.2  | 9.0   | 7.5  | 8.2  | 11.7  | 10.2 | 10.8 | 18.2 | 15.8 | 17.0 |
| 12           | 7.3      | 6.0 | 6.6  | 9.8   | 8.0  | 8.8  | 10.9  | 9.6  | 10.3 | 17.9 | 16.0 | 17.0 |
| 13           | 8.0      | 6.7 | 7.3  | 9.9   | 8.2  | 9.0  | 11.2  | 8.7  | 9.9  | 16.8 | 15.3 | 15.9 |
| 14           | 7.2      | 6.4 | 6.8  | 10.0  | 9.0  | 9.5  | 11.6  | 9.1  | 10.2 | 16.0 | 13.7 | 14.8 |
| 15           | 7.6      | 6.3 | 6.9  | 10.0  | 8.5  | 9.3  | 10.3  | 8.8  | 9.6  | 15.5 | 13.7 | 14.6 |
| 16           | 7.7      | 6.5 | 7.0  | 9.5   | 8.7  | 9.1  | 10.7  | 8.9  | 9.8  | 16.2 | 13.7 | 14.9 |
| 17           | 7.1      | 6.0 | 6.6  | 8.7   | 7.3  | 8.0  | 11.8  | 8.9  | 10.2 | 16.4 | 14.6 | 15.3 |
| 18           | 6.9      | 6.1 | 6.5  | 8.9   | 7.2  | 7.9  | 12.0  | 9.6  | 10.8 | 15.2 | 13.9 | 14.5 |
| 19           | 7.0      | 5.6 | 6.2  | 8.4   | 7.4  | 7.9  | 12.6  | 10.9 | 11.7 | 16.2 | 13.1 | 14.6 |
| 20           | 6.7      | 5.5 | 6.1  | 9.2   | 7.5  | 8.2  | 12.5  | 10.6 | 11.5 | 17.8 | 14.0 | 15.8 |
| 21           | 6.7      | 5.8 | 6.3  | 9.1   | 7.6  | 8.2  | 12.7  | 10.6 | 11.4 | 16.7 | 14.8 | 15.7 |
| 22           | 7.0      | 6.2 | 6.5  | 8.6   | 7.1  | 7.8  | 13.0  | 10.4 | 11.7 | 15.2 | 13.1 | 13.8 |
| 23           | 6.8      | 5.9 | 6.3  | 8.6   | 7.0  | 7.7  | 12.5  | 10.0 | 11.2 | 14.6 | 11.7 | 13.2 |
| 24           | 6.7      | 5.7 | 6.1  | 8.5   | 6.8  | 7.6  | 13.2  | 9.7  | 11.4 | 16.0 | 13.2 | 14.4 |
| 25           | 7.4      | 6.2 | 6.7  | 9.6   | 7.3  | 8.4  | 14.3  | 11.1 | 12.6 | 16.7 | 13.6 | 15.1 |
| 26           | 7.4      | 6.3 | 6.9  | 9.8   | 8.6  | 9.1  | 15.0  | 11.9 | 13.5 | 16.9 | 14.5 | 15.6 |
| 27           | 7.8      | 6.4 | 7.1  | 11.0  | 8.9  | 9.8  | 14.6  | 12.4 | 13.5 | 16.0 | 14.6 | 15.0 |
| 28           | 8.6      | 7.1 | 7.8  | 11.4  | 9.6  | 10.4 | 15.0  | 11.9 | 13.5 | 15.9 | 13.7 | 14.8 |
| 29           | ---      | --- | ---  | 12.2  | 10.1 | 11.0 | 14.2  | 12.4 | 13.3 | 16.1 | 14.7 | 15.3 |
| 30           | ---      | --- | ---  | 12.2  | 9.8  | 10.9 | 13.0  | 11.0 | 12.0 | 16.4 | 14.1 | 15.2 |
| 31           | ---      | --- | ---  | 12.7  | 10.0 | 11.2 | ---   | ---  | ---  | 17.3 | 13.7 | 15.4 |
| <b>Month</b> | 8.6      | 5.1 | 6.6  | 12.7  | 6.0  | 8.4  | 15.0  | 8.7  | 11.3 | 18.4 | 10.2 | 15.0 |

## 14103000 DESCHUTES RIVER AT MOODY, NEAR BIGGS, OR—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

| Day          | Max  | Min  | Mean | Max  | Min  | Mean | Max    | Min  | Mean | Max       | Min  | Mean |
|--------------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
|              | June |      |      | July |      |      | August |      |      | September |      |      |
| 1            | 18.2 | 14.8 | 16.4 | 22.8 | 19.2 | 21.0 | 19.3   | 16.9 | 18.1 | 19.8      | 16.9 | 18.4 |
| 2            | 18.3 | 15.5 | 16.9 | 23.1 | 20.0 | 21.5 | 18.9   | 16.8 | 17.9 | 19.9      | 17.2 | 18.6 |
| 3            | 18.6 | 15.2 | 16.9 | 21.9 | 19.2 | 20.6 | 20.4   | 16.9 | 18.6 | 19.7      | 17.3 | 18.6 |
| 4            | 19.2 | 15.7 | 17.4 | 20.8 | 17.9 | 19.4 | 20.9   | 17.8 | 19.4 | 19.8      | 17.4 | 18.6 |
| 5            | 19.6 | 16.0 | 17.9 | 20.3 | 17.1 | 18.8 | 21.2   | 18.0 | 19.7 | 19.3      | 17.3 | 18.4 |
| 6            | 20.3 | 16.9 | 18.6 | 20.8 | 17.1 | 19.0 | 21.3   | 18.2 | 19.8 | 18.2      | 16.6 | 17.2 |
| 7            | 20.0 | 16.9 | 18.6 | 21.1 | 17.6 | 19.4 | 20.8   | 17.9 | 19.5 | 18.3      | 15.6 | 17.0 |
| 8            | 20.1 | 16.9 | 18.6 | 21.4 | 17.9 | 19.7 | 21.1   | 17.9 | 19.5 | 18.9      | 16.1 | 17.5 |
| 9            | 19.9 | 16.9 | 18.4 | 21.8 | 18.3 | 20.1 | 21.5   | 18.6 | 20.0 | 19.2      | 16.6 | 18.0 |
| 10           | 19.0 | 16.1 | 17.7 | 21.8 | 18.7 | 20.3 | 20.5   | 18.6 | 19.8 | 19.4      | 16.9 | 18.3 |
| 11           | 17.9 | 15.5 | 16.8 | 20.9 | 18.1 | 19.7 | 19.5   | 17.0 | 18.4 | 19.4      | 16.8 | 18.2 |
| 12           | 17.7 | 15.1 | 16.4 | 20.0 | 17.4 | 18.8 | 20.3   | 17.3 | 18.8 | 19.4      | 17.0 | 18.3 |
| 13           | 17.4 | 14.8 | 16.1 | 20.4 | 16.6 | 18.5 | 20.7   | 17.7 | 19.2 | 19.3      | 17.2 | 18.4 |
| 14           | 18.5 | 14.6 | 16.5 | 20.8 | 17.3 | 19.0 | 19.8   | 17.7 | 18.8 | 19.0      | 16.7 | 17.9 |
| 15           | 19.6 | 15.8 | 17.7 | 21.0 | 17.4 | 19.3 | 20.0   | 17.4 | 18.8 | 18.5      | 16.7 | 17.7 |
| 16           | 19.9 | 16.9 | 18.5 | 20.4 | 17.9 | 19.3 | 19.8   | 18.1 | 19.1 | 18.2      | 16.6 | 17.4 |
| 17           | 19.8 | 17.1 | 18.5 | 21.2 | 17.8 | 19.5 | 20.0   | 17.6 | 19.0 | 17.2      | 15.4 | 16.1 |
| 18           | 18.6 | 16.5 | 17.4 | 21.5 | 17.9 | 19.8 | 20.3   | 17.5 | 19.0 | 16.1      | 14.3 | 15.2 |
| 19           | 17.0 | 15.2 | 16.1 | 21.5 | 18.3 | 20.0 | 20.2   | 17.5 | 18.9 | 16.2      | 13.8 | 15.1 |
| 20           | 17.4 | 15.0 | 16.2 | 21.5 | 18.3 | 20.0 | 20.2   | 17.3 | 18.8 | 16.2      | 14.2 | 15.3 |
| 21           | 17.8 | 15.3 | 16.5 | 21.4 | 18.0 | 19.8 | 19.4   | 17.1 | 18.4 | 16.6      | 14.8 | 15.7 |
| 22           | 18.7 | 15.2 | 16.9 | 21.2 | 17.8 | 19.6 | 18.3   | 16.5 | 17.4 | 16.0      | 14.7 | 15.1 |
| 23           | 18.3 | 16.7 | 17.6 | 21.1 | 17.9 | 19.6 | 18.9   | 16.6 | 17.8 | 14.7      | 13.4 | 14.2 |
| 24           | 18.0 | 16.3 | 16.9 | 20.8 | 17.9 | 19.5 | 19.1   | 16.8 | 18.1 | 14.6      | 13.7 | 14.2 |
| 25           | 17.1 | 15.5 | 16.3 | 21.0 | 17.7 | 19.5 | 18.6   | 17.2 | 18.0 | 14.2      | 13.1 | 13.6 |
| 26           | 17.7 | 15.5 | 16.5 | 21.0 | 18.1 | 19.7 | 18.7   | 16.5 | 17.5 | 14.5      | 12.6 | 13.5 |
| 27           | 19.2 | 15.8 | 17.4 | 20.5 | 17.8 | 19.3 | 19.5   | 16.2 | 17.7 | 13.6      | 12.7 | 13.2 |
| 28           | 21.3 | 17.2 | 19.1 | 20.1 | 17.1 | 18.7 | 19.6   | 17.0 | 18.4 | 14.4      | 12.6 | 13.5 |
| 29           | 21.8 | 18.6 | 20.2 | 20.1 | 17.0 | 18.6 | 19.8   | 17.6 | 18.6 | 14.1      | 13.4 | 13.6 |
| 30           | 22.0 | 18.3 | 20.3 | 20.4 | 17.3 | 19.0 | 19.5   | 16.9 | 18.2 | 13.6      | 12.5 | 12.9 |
| 31           | ---  | ---  | ---  | 19.6 | 17.7 | 18.7 | 19.6   | 16.8 | 18.2 | ---       | ---  | ---  |
| <b>Month</b> | 22.0 | 14.6 | 17.5 | 23.1 | 16.6 | 19.5 | 21.5   | 16.2 | 18.7 | 19.9      | 12.5 | 16.3 |

|             | Max  | Min | Mean |
|-------------|------|-----|------|
| <b>Year</b> | 23.1 | 3.8 | 12.4 |