

**WESTERN AREA POWER ADMINISTRATION  
HYDRO CONDITIONS AND PURCHASE POWER REPORT  
October 2019**

|               | Generation (Megawatt-Hours [MWh]) |            |            |            | Purchase Power (MWh) | Purchase Power Expenses (Dollars) |              |              |
|---------------|-----------------------------------|------------|------------|------------|----------------------|-----------------------------------|--------------|--------------|
|               | Projected                         | Most       | Average    | Actual     | Actual               | Projected                         | Most         | Actual       |
|               | Dry                               | Probable   |            |            |                      | Dry                               | Probable     |              |
| <b>Oct 18</b> | 2,191,197                         | 2,291,715  | 1,776,615  | 2,166,211  | 205,310              | \$4,702,090                       | \$4,374,513  | \$6,000,929  |
| <b>Nov 18</b> | 1,947,604                         | 2,049,917  | 1,675,280  | 1,967,804  | 317,190              | \$7,950,056                       | \$7,668,841  | \$9,326,440  |
| <b>Dec 18</b> | 1,646,222                         | 1,613,363  | 1,704,693  | 1,526,996  | 469,863              | \$10,394,950                      | \$11,615,895 | \$14,109,722 |
| <b>Jan 19</b> | 1,676,465                         | 1,704,113  | 1,861,169  | 1,623,543  | 353,851              | \$9,616,011                       | \$8,795,704  | \$9,745,492  |
| <b>Feb 19</b> | 1,597,167                         | 1,607,587  | 1,690,559  | 1,596,912  | 334,823              | \$7,909,927                       | \$6,371,208  | \$11,548,500 |
| <b>Mar 19</b> | 1,971,097                         | 1,730,792  | 1,957,827  | 1,936,390  | 446,033              | \$8,153,711                       | \$6,680,118  | \$14,320,839 |
| <b>Apr 19</b> | 2,423,249                         | 2,460,532  | 2,249,272  | 2,479,470  | 108,527              | \$3,640,422                       | \$1,903,748  | \$2,750,624  |
| <b>May 19</b> | 2,972,853                         | 3,088,102  | 2,609,363  | 2,697,984  | 46,222               | \$2,349,096                       | \$1,113,563  | \$825,041    |
| <b>Jun 19</b> | 3,192,285                         | 3,299,121  | 2,722,229  | 3,105,470  | 44,907               | \$3,993,143                       | \$1,124,626  | \$970,975    |
| <b>Jul 19</b> | 2,989,676                         | 3,467,580  | 2,930,599  | 3,412,648  | 74,214               | \$7,641,487                       | \$1,627,925  | \$2,243,401  |
| <b>Aug 19</b> | 3,133,782                         | 3,331,589  | 2,764,475  | 3,307,603  | 87,207               | \$7,878,756                       | \$2,892,926  | \$3,327,658  |
| <b>Sep 19</b> | 2,617,811                         | 2,898,411  | 2,246,425  | 2,703,098  |                      |                                   |              |              |
| <b>Total</b>  | 28,359,409                        | 29,542,822 | 26,188,505 | 28,524,131 | 2,488,147            | \$74,229,651                      | \$54,169,067 | \$75,169,620 |

Actual generation as a percentage of average: 108.9%

Cost per MWh: \$30.21

Western Area Power Administration (WAPA) generated 28,524 gigawatt-hours (GWh) during October through September of fiscal year 2019, or 108.9 percent of the average. Actual purchase power data is currently available from October through August for all of WAPA's Regions, and during this period, total purchase power was 2,488 GWh and total purchase power expenses were \$75,169,620, which equates to \$30.21 per MWh.

The following pages indicate WAPA's Regional snowpack, lake/reservoir inflow and storage, generation, and purchase power expenses. Snowpack reports as snow water equivalent, which is the depth of water that theoretically would result if the entire snowpack melts instantaneously.

WAPA's Regions use the monthly purchase power numbers indicated herein as a forecasting tool, and therefore they do not reflect energy imbalance transactions and other such information that is not forecastable. Furthermore, no verification of the purchase power numbers for financial auditing purposes has occurred. Consequently, these numbers will vary from those reported in WAPA's year-end financial statements that are the definitive source for WAPA's purchase power data.



## Colorado River Storage Project

|               | Snowpack<br>(Inches in Snow<br>Water Equivalent) |        | Lake/Reservoir Inflow<br>(Thousand Acre-Feet) |          | Lake/Reservoir<br>Content<br>(Million Acre-Feet) |        | Generation (MWh) |                  |           |           | Purchase<br>Power<br>(MWh) | Purchase Power Expenses (Dollars) |                  |              |
|---------------|--|--------|---|----------|--|--------|------------------|------------------|-----------|-----------|----------------------------|-----------------------------------|------------------|--------------|
|               | Median   | Actual | Average                                       | Actual   | Average  | Actual | Projected<br>Dry | Most<br>Probable | Average   | Actual    | Actual                     | Projected<br>Dry                  | Most<br>Probable | Actual       |
| <b>Oct 18</b> | 1.30   | 1.50   | 514.42  | 351.00   | 15.01  | 10.86  | 321,546          | 322,388          | 382,430   | 350,253   | 85,231                     | \$2,864,090                       | \$2,837,493      | \$2,445,254  |
| <b>Nov 18</b> | 4.80   | 5.20   | 474.23  | 254.00   | 14.91  | 10.51  | 303,372          | 316,406          | 388,155   | 298,876   | 162,992                    | \$3,956,202                       | \$3,856,748      | \$5,385,266  |
| <b>Dec 18</b> | 8.10   | 7.60   | 362.96  | 228.00   | 14.86  | 10.10  | 355,598          | 375,353          | 437,962   | 376,666   | 115,368                    | \$4,457,663                       | \$5,908,583      | \$4,564,811  |
| <b>Jan 19</b> | 11.50  | 12.10  | 361.45  | 212.00   | 14.98  | 9.63   | 348,335          | 396,430          | 457,394   | 397,561   | 104,938                    | \$4,673,912                       | \$4,072,956      | \$3,614,778  |
| <b>Feb 19</b> | 15.10  | 17.50  | 392.01  | 255.00   | 15.99  | 9.26   | 310,650          | 369,961          | 390,580   | 362,157   | 81,474                     | \$3,566,014                       | \$2,230,770      | \$3,846,903  |
| <b>Mar 19</b> | 18.90  | 24.50  | 666.27  | 624.00   | 16.77  | 9.05   | 330,574          | 345,266          | 390,170   | 369,565   | 87,114                     | \$2,714,461                       | \$86,268         | \$2,817,982  |
| <b>Apr 19</b> | 19.40  | 23.40  | 1,057.14                                      | 1,244.00 | 16.74  | 9.20   | 320,609          | 334,927          | 397,861   | 360,975   | 46,344                     | \$1,315,218                       | \$44,534         | \$958,598    |
| <b>May 19</b> | 7.90   | 20.80  | 2,337.68                                      | 2,511.00 | 16.30  | 10.30  | 353,950          | 504,794          | 475,860   | 451,987   | 9,376                      | \$1,241,595                       | \$6,062          | \$165,993    |
| <b>Jun 19</b> | 0.00   | 2.90   | 2,668.50                                      | 4,206.00 | 16.00  | 12.91  | 349,453          | 645,461          | 534,248   | 570,597   | 1,631                      | \$2,868,517                       | \$0              | \$21,418     |
| <b>Jul 19</b> | 0.00   | 0.00   | 1,093.88                                      | 2,451.00 | 15.88  | 13.93  | 367,403          | 561,751          | 536,434   | 574,299   | 5,700                      | \$5,732,050                       | \$206,528        | \$200,378    |
| <b>Aug 19</b> | 0.00   | 0.50   | 496.08  | 472.00   | 15.68  | 13.61  | 394,874          | 585,249          | 558,659   | 581,221   | 6,197                      | \$4,416,757                       | \$21,223         | \$220,529    |
| <b>Sep 19</b> | 0.00   | 0.10   | 405.88  | 143.00   | 15.38  | 13.28  | 287,347          | 468,111          | 449,558   | 423,469   | 17,867                     | \$6,037,820                       | \$20,622         | \$418,448    |
| <b>Total</b>  |  |        |   |          |  |        | 4,043,711        | 5,226,097        | 5,399,309 | 5,117,626 | 724,232                    | \$43,844,299                      | \$19,291,789     | \$24,660,358 |

Actual generation as a percentage of average: 94.8%

Cost per MWh: \$34.05

### Lake/Reservoir Levels

Lake Powell's elevation was 3,615 feet at the end of September, about 85 feet below the maximum reservoir level and about 125 feet above the minimum generation level. The storage volume for Lake Powell was 13.3 million acre-feet at the end of September, or about 55 percent of capacity.

### Weather and Other Conditions

Inflows into Lake Powell were 35 percent of average for September. Currently, water year 2020 forecasts are for an inflow of 9,500,000 acre-feet (88% of average) and an annual release of 8,230,000 acre-feet.



## Desert Southwest Region

|               | Snowpack<br>(Inches in Snow<br>Water Equivalent) |        | Lake/Reservoir Inflow<br>(Thousand Acre-Feet) |        | Lake/Reservoir<br>Content<br>(Million Acre-Feet) |        | Generation (MWh) |                  |           |           | Purchase<br>Power<br>(MWh) | Purchase Power Expenses (Dollars) |                  |              |
|---------------|--|--------|---|--------|--|--------|------------------|------------------|-----------|-----------|----------------------------|-----------------------------------|------------------|--------------|
|               | Median   | Actual | Average                                       | Actual | Average  | Actual | Projected<br>Dry | Most<br>Probable | Average   | Actual    | Actual                     | Projected<br>Dry                  | Most<br>Probable | Actual       |
| <b>Oct 18</b> | 1.30   | 1.50   | 93.71   | 101.00 | 20.03  | 12.01  | 351,400          | 351,315          | 377,868   | 339,511   | 11,000                     | \$308,000                         | \$400,000        | \$976,017    |
| <b>Nov 18</b> | 4.80   | 5.20   | 54.08   | 68.00  | 20.08  | 12.03  | 367,050          | 357,160          | 363,617   | 357,474   | 11,001                     | \$435,640                         | \$435,640        | \$236,572    |
| <b>Dec 18</b> | 8.10   | 7.60   | 72.32   | 52.00  | 20.21  | 12.32  | 247,750          | 244,540          | 369,749   | 233,300   | 30,582                     | \$1,258,177                       | \$1,258,177      | \$1,560,188  |
| <b>Jan 19</b> | 11.50  | 12.10  | 93.81   | 105.00 | 20.37  | 12.72  | 265,650          | 248,555          | 392,324   | 248,683   | 24,471                     | \$844,099                         | \$844,099        | \$1,240,246  |
| <b>Feb 19</b> | 15.10  | 17.50  | 109.59  | 127.00 | 20.40  | 12.96  | 389,500          | 330,335          | 389,146   | 327,946   | 25,248                     | \$744,930                         | \$744,930        | \$1,737,820  |
| <b>Mar 19</b> | 18.90  | 24.50  | 104.25  | 202.00 | 20.21  | 13.14  | 532,700          | 418,160          | 529,401   | 412,674   | 31,605                     | \$1,262,021                       | \$1,262,021      | \$1,404,210  |
| <b>Apr 19</b> | 19.40  | 23.40  | 84.70   | 117.00 | 20.03  | 13.02  | 528,100          | 515,415          | 570,854   | 502,066   | 8,134                      | \$349,070                         | \$349,070        | \$252,755    |
| <b>May 19</b> | 7.90   | 20.80  | 59.61   | 107.00 | 20.13  | 12.86  | 570,400          | 542,410          | 571,052   | 542,012   | 7,054                      | \$622,861                         | \$622,861        | \$229,980    |
| <b>Jun 19</b> | 0.00   | 2.90   | 27.36   | 70.00  | 20.32  | 12.69  | 500,200          | 499,765          | 536,860   | 497,829   | 13,585                     | \$639,986                         | \$639,986        | \$471,548    |
| <b>Jul 19</b> | 0.00   | 0.00   | 66.43   | 21.00  | 20.23  | 12.54  | 452,100          | 509,190          | 547,335   | 510,582   | 22,071                     | \$876,897                         | \$876,897        | \$1,124,517  |
| <b>Aug 19</b> | 0.00   | 0.50   | 98.31   | 65.00  | 20.09  | 11.03  | 426,300          | 429,625          | 510,301   | 437,466   | 35,541                     | \$2,272,779                       | \$2,272,779      | \$2,243,166  |
| <b>Sep 19</b> | 0.00   | 0.10   | 87.12   | 60.00  | 19.99  | 12.43  | 346,600          | 394,295          | 431,349   | 381,354   | 43,233                     | \$1,515,269                       | \$1,515,269      | \$1,455,372  |
| <b>Total</b>  |  |        |   |        |  |        | 4,977,750        | 4,840,765        | 5,589,856 | 4,790,896 | 263,525                    | \$11,129,729                      | \$11,221,729     | \$12,932,391 |

Actual generation as a percentage of average: 85.7%

Cost per MWh: \$49.07

### Lake/Reservoir Levels

Lake Mead's elevation was 1,083 feet at the end of September, about 137 feet below the full storage level and about 133 feet above the minimum generation level. For water year 2019, Lake Mead's elevation dropped to a minimum of 1,078 feet in November and rose to a peak of 1,090 feet in March.

### Weather and Other Conditions

The Desert Southwest Region's (DSWR) hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The precipitation is currently 26 percent of average and the snowpack is too early to measure.

*Note: DSWR's projected dry and most probable generation data are reported from studies conducted by the U.S. Bureau of Reclamation.*



## Rocky Mountain Region

|               | Snowpack<br>(Inches in Snow<br>Water Equivalent) |        | Lake/Reservoir Inflow<br>(Thousand Acre-Feet) |          | Lake/Reservoir<br>Content<br>(Million Acre-Feet) |        | Generation (MWh) |                  |           |           | Purchase<br>Power<br>(MWh) | Purchase Power Expenses (Dollars) |                  |              |
|---------------|--|--------|---|----------|--|--------|------------------|------------------|-----------|-----------|----------------------------|-----------------------------------|------------------|--------------|
|               | Median   | Actual | Average                                       | Actual   | Average  | Actual | Projected<br>Dry | Most<br>Probable | Average   | Actual    | Actual                     | Projected<br>Dry                  | Most<br>Probable | Actual       |
|               | <b>Oct 18</b>                                    | 0.00   | 0.00  | 145.00   | 123.30   | 3.871  | 4.163            | 126,310          | 140,345   | 96,983    | 105,818                    | 53,942                            | \$ 1,010,520     | \$ 617,540   |
| <b>Nov 18</b> | 3.80   | 3.00   | 121.90  | 114.40   | 3.834  | 4.153  | 53,631           | 59,591           | 109,895   | 64,731    | 90,100                     | \$ 3,039,932                      | \$ 2,873,052     | \$ 2,582,110 |
| <b>Dec 18</b> | 11.70  | 14.60  | 100.60  | 98.60    | 3.788  | 4.095  | 88,802           | 98,669           | 123,353   | 93,787    | 78,461                     | \$ 2,472,344                      | \$ 2,196,068     | \$ 2,320,018 |
| <b>Jan 19</b> | 28.20  | 29.90  | 97.10   | 98.10    | 3.768  | 4.233  | 114,996          | 127,774          | 121,795   | 122,360   | 48,766                     | \$ 1,612,912                      | \$ 1,255,128     | \$ 1,097,562 |
| <b>Feb 19</b> | 39.40  | 35.90  | 95.50   | 92.10    | 3.698  | 4.007  | 108,334          | 120,372          | 111,291   | 112,571   | 21,400                     | \$ 802,648                        | \$ 465,584       | \$ 809,202   |
| <b>Mar 19</b> | 44.90  | 52.30  | 158.60  | 149.70   | 3.842  | 4.033  | 110,289          | 122,544          | 128,512   | 107,241   | 40,055                     | \$ 1,092,308                      | \$ 749,168       | \$ 1,259,871 |
| <b>Apr 19</b> | 43.40  | 47.10  | 246.70  | 344.50   | 3.883  | 4.207  | 159,352          | 177,058          | 144,007   | 178,116   | 2,955                      | \$ 477,344                        | \$ -             | \$ 64,833    |
| <b>May 19</b> | 43.40  | 47.10  | 737.90  | 674.70   | 4.419  | 5.099  | 231,213          | 256,904          | 196,456   | 216,137   | 53                         | \$ -                              | \$ -             | \$ 721       |
| <b>Jun 19</b> | 17.10  | 37.20  | 1,149.50                                      | 1,251.30 | 4.911  | 5.441  | 236,362          | 262,625          | 246,058   | 270,954   | 889                        | \$ -                              | \$ -             | \$ 12,971    |
| <b>Jul 19</b> | 0.00   | 3.60   | 534.50  | 904.90   | 4.577  | 5.587  | 244,570          | 271,745          | 260,985   | 319,432   | 7,639                      | \$ 488,040                        | \$ -             | \$ 132,762   |
| <b>Aug 19</b> | 0.00   | 0.00   | 185.20  | 233.60   | 4.063  | 5.084  | 189,730          | 210,812          | 214,441   | 257,486   | 3,021                      | \$ 601,160                        | \$ 10,864        | \$ 87,693    |
| <b>Sep 19</b> | 0.00   | 0.00   | 128.70  | 115.50   | 3.82   | 4.19   | 158,498          | 176,109          | 141,232   | 185,083   | 3,328                      | \$53,144                          | \$0              | \$107,967    |
| <b>Total</b>  |  |        |   |          |  |        | 1,822,087        | 2,024,548        | 1,895,008 | 2,033,716 | 350,609                    | \$11,650,352                      | \$8,167,404      | \$9,912,420  |

Actual generation as a percentage of average: 107.3%

Cost per MWh: \$28.27

### Lake/Reservoir Content

Reservoir inflows are 90 percent of average for all of the Loveland Area Projects (LAP).

### Weather and Other Conditions

The latest National Weather Service forecast indicates November through January temperatures are more likely to be at or above normal and precipitation is expected to be slightly above normal in the LAP area. For LAP as a whole, November generation is expected to be below the marketed amount due to maintenance on the hydro units. November, December and January generation in the Colorado River Basin, North Platte Basin, and Big Horn Basin is forecasted to be average for this time of year as winter flow rates are set.

*Note: The Rocky Mountain Region's (RMR) most recent reported actual generation and purchase power data are provisional values.*



## Sierra Nevada Region

|               | Snowpack<br>(Inches in Snow<br>Water Equivalent) |        | Lake/Reservoir Inflow<br>(Thousand Acre-Feet) |          | Lake/Reservoir<br>Content<br>(Million Acre-Feet) |        | Generation (MWh) |                  |           |           | Purchase<br>Power<br>(MWh) | Purchase Power Expenses (Dollars) |                  |             |
|---------------|--|--------|---|----------|--|--------|------------------|------------------|-----------|-----------|----------------------------|-----------------------------------|------------------|-------------|
|               | Median   | Actual | Average                                       | Actual   | Average  | Actual | Projected<br>Dry | Most<br>Probable | Average   | Actual    | Actual                     | Projected<br>Dry                  | Most<br>Probable | Actual      |
|               | <b>Oct 18</b>                                    | N/A    | N/A   | 337.00   | 267.00   | 5.33   | 5.81             | 66,000           | 71,000    | 163,000   | 122,451                    | 54,606                            | \$519,480        | \$519,480   |
| <b>Nov 18</b> | 26.67  | 4.00   | 413.00  | 329.00   | 5.30   | 5.72   | 14,000           | 0                | 104,000   | 73,243    | 50,948                     | \$499,500                         | \$499,500        | \$1,039,392 |
| <b>Dec 19</b> | 28.00  | 7.00   | 934.00  | 489.00   | 5.69   | 5.83   | 39,000           | 0                | 143,000   | 5,086     | 64,085                     | \$499,500                         | \$499,500        | \$1,342,138 |
| <b>Jan 19</b> | 28.69  | 17.50  | 1,120.00                                      | 1,349.00 | 6.11   | 6.89   | 0                | 0                | 163,000   | 0         | 66,444                     | \$528,840                         | \$528,840        | \$987,373   |
| <b>Feb 19</b> | 27.82  | 37.00  | 1,321.00                                      | 2,148.00 | 6.67   | 8.22   | 0                | 9,000            | 195,000   | 37,424    | 58,503                     | \$488,160                         | \$488,160        | \$761,853   |
| <b>Mar 19</b> | 28.57  | 46.00  | 1,646.00                                      | 2,592.00 | 7.28   | 8.62   | 208,000          | 138,000          | 207,000   | 536,195   | 15,116                     | \$488,160                         | \$488,160        | \$369,408   |
| <b>Apr 19</b> | 27.43  | 31.00  | 1,481.00                                      | 2,637.00 | 7.96   | 9.27   | 353,000          | 423,000          | 288,000   | 585,381   | 12,324                     | \$466,000                         | \$466,000        | \$369,408   |
| <b>May 19</b> | 26.15  | 17.00  | 1,305.00                                      | 1,933.00 | 7.99   | 9.85   | 511,000          | 501,000          | 442,000   | 388,517   | 29,266                     | \$484,640                         | \$484,640        | \$399,176   |
| <b>Jun 19</b> | N/A  | N/A    | 832.00  | 1,429.00 | 7.62   | 9.81   | 460,000          | 485,000          | 440,000   | 467,578   | 27,173                     | \$484,640                         | \$484,640        | \$412,652   |
| <b>Jul 19</b> | N/A  | N/A    | 460.00  | 501.00   | 6.86   | 9.21   | 514,000          | 514,000          | 524,000   | 429,888   | 36,199                     | \$544,500                         | \$544,500        | \$711,458   |
| <b>Aug 19</b> | N/A  | N/A    | 356.00  | 550.00   | 6.20   | 8.58   | 480,000          | 470,000          | 402,000   | 415,692   | 40,374                     | \$588,060                         | \$588,060        | \$766,426   |
| <b>Sep 19</b> | N/A  | N/A    | 317.00  | 415.00   | 5.82   | 8.23   | 311,000          | 311,000          | 269,000   | 251,221   | 43,322                     | \$522,720                         | \$522,720        | \$768,116   |
| <b>Total</b>  |  |        |   |          |  |        | 2,956,000        | 2,922,000        | 3,340,000 | 3,312,677 | 498,360                    | \$6,114,200                       | \$6,114,200      | \$9,063,870 |

Actual generation as a percentage of average: 99.2%

Cost per MWh: \$18.19

### Lake/Reservoir Content

As of September 30, reservoir storage for the water year was 143 percent of the 15-year average for Trinity, 138 percent for Shasta, 150 percent for Folsom and 147 percent for New Melones. Accumulated inflow for the same date was 133 percent of the 15-year average for Trinity, 135 percent for Shasta, 144 percent for Folsom and 153 percent for New Melones.

### Weather and Other Conditions

September precipitation was 267 percent of its monthly average, following 87 percent precipitation for August. The Sacramento River Index forecast for 50 percent exceedance is "wet" and the 90 percent exceedance is "wet."

*Note: Sierra Nevada Region's (SNR) bases average generation upon long-term modeling done for its "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable expenses are based upon term purchases of 35 to 65 percent of projected power needs, with the difference being left to day-ahead markets after project pumping and generation have been scheduled.*



## Upper Great Plains Region

|               | Snowpack<br>(Inches in Snow<br>Water Equivalent) |        | Lake/Reservoir Inflow<br>(Thousand Acre-Feet) |           | Lake/Reservoir<br>Content<br>(Million Acre-Feet) |        | Generation (MWh) |                  |           |            | Purchase<br>Power<br>(MWh) | Purchase Power Expenses (Dollars) |                  |              |
|---------------|--|--------|---|-----------|--|--------|------------------|------------------|-----------|------------|----------------------------|-----------------------------------|------------------|--------------|
|               | Median   | Actual | Average                                       | Actual    | Average  | Actual | Projected<br>Dry | Most<br>Probable | Average   | Actual     | Actual                     | Projected<br>Dry                  | Most<br>Probable | Actual       |
| <b>Oct 18</b> | 1.20   | 0.60   | 7,972.00                                      | 12,743.92 | 56.14  | 61.29  | 1,325,941        | 1,406,667        | 756,334   | 1,248,178  | 531                        | \$0                               | \$0              | \$6,478      |
| <b>Nov 18</b> | 3.80   | 3.49   | 7,334.00                                      | 12,156.48 | 55.06  | 58.80  | 1,209,552        | 1,316,760        | 709,613   | 1,173,480  | 2,149                      | \$18,782                          | \$3,900          | \$83,100     |
| <b>Dec 18</b> | 7.10   | 5.70   | 6,422.00                                      | 7,619.10  | 54.46  | 58.43  | 915,072          | 894,801          | 630,628   | 818,157    | 181,367                    | \$1,707,266                       | \$1,753,567      | \$4,322,567  |
| <b>Jan 19</b> | 10.30  | 8.70   | 6,641.00                                      | 7,118.20  | 54.18  | 57.59  | 947,484          | 931,354          | 726,656   | 854,939    | 109,232                    | \$1,956,248                       | \$2,094,681      | \$2,805,533  |
| <b>Feb 19</b> | 13.10  | 14.10  | 6,281.00                                      | 6,737.50  | 54.50  | 57.52  | 788,683          | 777,919          | 604,543   | 756,814    | 148,198                    | \$2,308,176                       | \$2,441,763      | \$4,392,721  |
| <b>Mar 19</b> | 15.80  | 15.30  | 8,151.00                                      | 12,477.60 | 56.20  | 64.04  | 789,534          | 706,822          | 702,744   | 510,715    | 272,143                    | \$2,596,762                       | \$4,094,500      | \$8,469,368  |
| <b>Apr 19</b> | 14.90  | 15.00  | 8,041.00                                      | 13,424.98 | 57.06  | 66.22  | 1,062,188        | 1,010,132        | 848,551   | 852,932    | 38,770                     | \$1,032,790                       | \$1,044,144      | \$1,105,030  |
| <b>May 19</b> | 6.30   | 7.20   | 9,654.00                                      | 16,590.74 | 58.35  | 69.02  | 1,306,290        | 1,282,994        | 923,995   | 1,099,332  | 473                        | \$0                               | \$0              | \$29,171     |
| <b>Jun 19</b> | 0.50   | 1.00   | 11,746.00                                     | 17,798.80 | 60.54  | 69.89  | 1,646,270        | 1,406,270        | 965,062   | 1,298,513  | 1,629                      | \$0                               | \$0              | \$52,386     |
| <b>Jul 19</b> | 0.00   | 0.00   | 10,694.00                                     | 19,014.47 | 60.49  | 69.82  | 1,411,603        | 1,610,894        | 1,061,846 | 1,578,447  | 2,605                      | \$0                               | \$0              | \$74,286     |
| <b>Aug 19</b> | 0.00   | 0.00   | 9,716.00                                      | 17,176.08 | 58.91  | 67.27  | 1,642,878        | 1,635,903        | 1,079,074 | 1,615,738  | 2,074                      | \$0                               | \$0              | \$9,844      |
| <b>Sep 19</b> | 0.09   | 0.00   | 8,629.00                                      | 17,470.60 | 57.38  | 65.69  | 1,514,366        | 1,548,896        | 955,286   | 1,461,971  | *                          | \$0                               | \$0              | *            |
| <b>Total</b>  |  |        |   |           |  |        | 14,559,861       | 14,529,412       | 9,964,332 | 13,269,216 | 759,171                    | \$9,620,024                       | \$11,432,556     | \$21,350,484 |

Actual generation as a percentage of average: 133.2%      Cost per MWh: \$28.12

### Lake/Reservoir Content

As of October 19, the active conservation pools for the Canyon Ferry Dam is 85.8 percent full and Yellowtail Dam is 99.4 percent full.

### Weather and Other Conditions

The yearly runoff was 241 percent of normal. The U.S. Drought Monitor shows no areas of the upper Basin impacted by abnormally dry conditions. The Midwest/High Plains has been wetter than normal in the northern region and drier than normal in the southern region of the region.

*Note: The Upper Great Plains Region reports its 50 percent share of generation from Yellowtail Dam, and RMR reports the snowpack, inflow, content, and remaining share of generation. Asterisks indicate that actual purchase power data is not available for the month.*

