

**Western Area Power Administration
Hydro Conditions and Purchase Power Report
January 2016**

Western-Wide

	Generation (Megawatt-Hours [MWh])				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Projected Dry	Most Probable	Average	Actual		Projected Dry	Most Probable	Actual
Oct 15	1,434,895	1,538,279	1,966,014	1,614,375	214,812	\$14,857,785	\$11,511,540	\$6,389,635
Nov 15	1,378,403	1,448,916	1,852,469	1,393,430	260,407	\$18,049,243	\$16,350,999	\$7,198,763
Dec 15	1,325,629	1,506,717	1,755,293	1,519,184	180,057	\$24,259,449	\$18,588,528	\$5,314,823
Jan 16								
Feb 16								
Mar 16								
Apr 16								
May 16								
Jun 16								
Jul 16								
Aug 16								
Sep 16								
Total	4,138,928	4,493,911	5,573,775	4,526,990	655,276	\$57,166,478	\$46,451,067	\$18,903,221
	Actual generation as a percentage of average: 81.2%					Cost per MWh: \$28.85		

Western Area Power Administration (Western) generated a total of 4,527 gigawatt-hours (GWh) during October through December of fiscal year 2016, or 81.2 percent of the average. For the same period, estimated total purchase power was 655 GWh and estimated total purchase power expenses were \$18,903,221, which equates to \$28.85 per MWh.

The following pages indicate Western’s Regional snowpack, lake/reservoir inflow and content, generation, and purchase power expenses, among other things. Snowpack is reported as snow water equivalent, which is the depth of water that theoretically would result if the entire snowpack is melted instantaneously.

Colorado River Storage Project

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	408.80	636.00	15.01	12.29	248,012	340,194	382,430	379,732	71,798	\$6,704,081	\$2,989,589	\$2,100,360
Nov 15	1.80	3.90	510.71	420.00	14.91	11.93	230,952	316,064	388,155	340,308	106,233	\$7,549,826	\$4,237,967	\$2,748,918
Dec 15	4.00	7.90	474.22	465.00	14.86	11.54	270,310	443,456	437,962	472,018	38,014	\$7,692,571	\$1,952,432	\$1,129,176
Jan 16														
Feb 16														
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							749,275	1,099,714	1,208,547	1,192,058	216,045	\$21,946,477	\$9,179,988	\$5,978,454
							Actual generation as a percentage of average:				98.6%	Cost per MWh: \$27.67		

Lake/Reservoir Levels

Lake Powell's elevation was 3,601 feet at the end of December, about 99 feet below the maximum reservoir level and about 111 feet above the minimum generation level. Current storage volume for Lake Powell is 11,631,000 acre feet, which is about 49 percent of capacity.

Weather and Other Conditions

No unusual conditions reported.

Desert Southwest Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	59.90	119.00	20.40	12.01	339,700	319,060	379,926	319,537	1,105	\$0	\$36,896	\$36,896
Nov 15	1.80	3.90	53.51	41.00	20.44	11.95	312,250	338,035	363,256	330,812	136	\$25,378	\$131,780	\$4,408
Dec 15	4.00	7.90	73.77	42.00	20.57	12.23	288,100	310,990	373,314	318,054	1,795	\$243,930	\$165,592	\$60,635
Jan 16														
Feb 16														
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							940,050	968,085	1,116,496	968,403	3,036	\$269,308	\$334,268	\$101,939
Actual generation as a percentage of average:										86.7%	Cost per MWh:			\$33.58

Lake/Reservoir Levels

Lake Mead's elevation was 1,081 feet at the end of December, about 139 feet below full storage level and about 31 feet above the minimum generation level.

Weather and Other Conditions

The Desert Southwest Region's hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The WY 2016 precipitation is currently 102 percent of average.

Rocky Mountain Region

Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
		138.60	117.70	3.85	4.44	86,700	86,400	84,083	86,111	85,616	\$2,329,286	\$2,339,186	\$2,380,387
		120.30	107.00	3.85	4.44	65,000	65,300	81,138	65,774	96,455	\$3,053,655	\$3,043,755	\$2,568,247
		98.80	98.40	3.82	4.42	105,900	106,200	103,195	107,384	79,230	\$2,202,853	\$2,192,953	\$2,175,937
Oct 15													
Nov 15													
Dec 15	246.40	205.10											
Jan 16													
Feb 16													
Mar 16													
Apr 16													
May 16													
Jun 16													
Jul 16													
Aug 16													
Sep 16													
Total						257,600	257,900	268,416	259,269	261,301	\$7,585,794	\$7,575,894	\$7,124,571

Actual generation as a percentage of average: 96.6%

Cost per MWh: \$27.27

Lake/Reservoir Content

The overall reservoir content at the end of December was 116 percent of average.

Weather and Other Conditions

The LAP area remains drought free but with dryer than normal conditions developing in some places. The very early snowpack is well above average for the Colorado-Big Thompson Project, below average in the Bighorn Basin, and well below average in the North Platte Basin. The latest National Weather Service forecast indicates December through February temperatures are more likely to be above normal in Wyoming and just as likely to be above as below normal in Colorado. The precipitation is more likely to be above normal in Colorado while more likely to be below normal in Wyoming.

Sierra Nevada Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
	Oct 15			316.00	204.00	5.29	2.34	91,000	136,000	163,000	128,332	56,293	\$1,820,820	\$1,820,820
Nov 15	3.57	2.00	386.00	210.00	5.24	2.21	79,000	99,000	104,000	38,675	57,583	\$1,727,548	\$1,727,548	\$1,877,190
Dec 15	5.86	10.00	1,017.00	553.00	5.76	2.47	64,000	54,000	143,000	47,723	61,018	\$1,803,740	\$1,803,740	\$1,949,075
Jan 16														
Feb 16														
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							234,000	289,000	410,000	214,731	174,894	\$5,352,108	\$5,352,108	\$5,698,257

Actual generation as a percentage of average: 52.4%

Cost per MWh: \$32.58

Lake/Reservoir Content

As of January 26, accumulated inflow for the water year was 82 percent of the 15-year average for Trinity, 89 percent for Shasta, 73 percent for Folsom, and 91 percent for New Melones. The overall reservoir content at the end of December was 43 percent of average.

Weather and Other Conditions

Cumulative precipitation of the Northern Sierra Eight Station Index is at 104 percent of average for this date, and 58 percent of the water year average. Forecasts began in December and are updated monthly based upon conditions as of the 1st of each month. The current January 1, 2016 forecast is "critical" for the dry (90 percent) and "dry" for the most probable (50 percent) exceedence cases.

Note: SNR's average projection of generation is taken from the latest modeling using the update to its customers' "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable projected expenses are based upon term purchases of 70-75 percent of projected power needs with the difference being left to day-ahead markets after project pumping and generation are scheduled.

Upper Great Plains Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1.20	0.40	8,092.00	5,998.12	55.94	59.52	669,483	656,625	956,575	700,663	0	\$4,003,599	\$4,325,049	\$0
Nov 15	3.80	2.90	7,411.00	5,642.70	54.83	58.73	691,201	630,517	915,920	617,861	0	\$5,692,837	\$7,209,949	\$0
Dec 15	7.10	7.00	6,468.00	5,109.00	54.23	58.41	597,319	592,071	697,821	574,005	0	\$12,316,355	\$12,473,810	\$0
Jan 16														
Feb 16														
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							1,958,003	1,879,212	2,570,317	1,892,529	0	\$22,012,791	\$24,008,808	\$0

Actual generation as a percentage of average: 73.6%

Cost per MWh: N/A

Lake/Reservoir Content

As of January 19, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 77.7 percent and 86.2 percent full, respectively.

Weather and Other Conditions

A strong El Nino remains in place this winter but this has not stopped moisture from falling in the lower reaches of the Missouri River Basin. The December actual system runoff was 155 percent of average. Higher releases over the next few months will require fewer purchases to meet firm loads.

Note: The Upper Great Plains Region (UGPR) reports its 50 percent share of generation from Yellowtail Dam, while RMR reports the snowpack, inflow, content, and remaining share of generation. UGPR's financial reports have not been completely updated for market charges, so UGPR is unable to report accurate purchase power data at this time.

**Western Area Power Administration
Hydro Conditions and Purchase Power Report
February 2016**

Western-Wide

	Generation (Megawatt-Hours [MWh])				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1,434,895	1,538,279	1,966,014	1,614,375	225,012	\$13,412,993	\$10,002,458	\$7,365,916
Nov 15	1,378,403	1,448,916	1,852,469	1,393,430	413,747	\$16,197,285	\$14,195,619	\$10,070,025
Dec 15	1,325,629	1,506,717	1,755,293	1,519,184	506,729	\$19,371,552	\$13,648,145	\$10,672,273
Jan 16	1,709,435	1,760,027	1,882,890	1,744,703	252,494	\$9,493,892	\$5,902,813	\$7,017,678
Feb 16								
Mar 16								
Apr 16								
May 16								
Jun 16								
Jul 16								
Aug 16								
Sep 16								
Total	5,848,363	6,253,938	7,456,666	6,271,692	1,397,982	\$58,475,723	\$43,749,035	\$35,125,891
	Actual generation as a percentage of average: 84.1%					Cost per MWh: \$25.13		

Western Area Power Administration (Western) generated a total of 6,272 gigawatt-hours (GWh) during October through January of fiscal year 2016, or 84.1 percent of the average. For the same period, total purchase power was 1,398 GWh and total purchase power expenses were \$35,125,891, which equates to \$25.13 per MWh.

The following pages indicate Western’s Regional snowpack, lake/reservoir inflow and content, generation, and purchase power expenses, among other things. Snowpack is reported as snow water equivalent, which is the depth of water that theoretically would result if the entire snowpack is melted instantaneously.

Colorado River Storage Project

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	408.80	636.00	15.01	12.29	248,012	340,194	382,430	379,732	71,798	\$6,704,081	\$2,989,589	\$2,100,360
Nov 15	1.80	3.90	510.71	420.00	14.91	11.93	230,952	316,064	388,155	340,308	106,233	\$7,549,826	\$4,237,967	\$2,748,918
Dec 15	4.00	7.90	474.22	465.00	14.86	11.54	270,310	443,456	437,962	472,018	38,014	\$7,692,571	\$1,952,432	\$1,129,176
Jan 16	11.50	11.20	363.30	300.00	14.98	11.33	355,138	441,000	457,394	481,075	35,898	\$4,412,679	\$619,112	\$1,067,937
Feb 16														
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							1,104,413	1,540,714	1,665,941	1,673,133	251,943	\$26,359,156	\$9,799,100	\$7,046,391

Actual generation as a percentage of average: 100.4%

Cost per MWh: \$27.97

Lake/Reservoir Levels

Lake Powell's elevation was 3,597 feet at the end of January, about 103 feet below the maximum reservoir level and about 107 feet above the minimum generation level. Current storage volume for Lake Powell is 11,427,000 acre-feet, which is about 47 percent of capacity.

Weather and Other Conditions

No unusual conditions reported.

Desert Southwest Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	59.90	119.00	20.40	12.01	339,700	319,060	379,926	319,537	1,105	\$0	\$36,896	\$36,896
Nov 15	1.80	3.90	53.51	41.00	20.44	11.95	312,250	338,035	363,256	330,812	136	\$25,378	\$131,780	\$4,408
Dec 15	4.00	7.90	73.77	42.00	20.57	12.23	288,100	310,990	373,314	318,054	1,795	\$243,930	\$165,592	\$60,635
Jan 16	11.50	11.20	93.00	90.00	20.71	12.52	359,550	343,440	397,807	341,451	995	\$0	\$120,478	\$34,984
Feb 16														
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							1,299,600	1,311,525	1,514,303	1,309,854	4,031	\$269,308	\$454,746	\$136,923

Actual generation as a percentage of average: 86.5%

Cost per MWh: \$33.97

Lake/Reservoir Levels

Lake Mead's elevation was 1,084 feet at the end of January, about 136 feet below full storage level and about 34 feet above the minimum generation level.

Weather and Other Conditions

The Desert Southwest Region's hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The WY 2016 precipitation is currently 96 percent of average.

Rocky Mountain Region

Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)			
Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual	
		138.60	117.70	3.85	4.44	86,700	86,400	84,083	86,111	85,616	\$2,329,286	\$2,339,186	\$2,380,387	
		120.30	107.00	3.85	4.44	65,000	65,300	81,138	65,774	96,455	\$3,053,655	\$3,043,755	\$2,568,247	
Oct 15		98.80	98.40	3.82	4.42	105,900	106,200	103,195	107,384	79,230	\$2,202,853	\$2,192,953	\$2,175,937	
Nov 15	246.40	205.10												
Dec 15	417.90	393.40	96.20	100.90	3.80	4.41	127,800	128,400	113,267	126,958	52,779	\$1,476,948	\$1,463,748	\$1,182,038
Jan 16														
Feb 16														
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total						385,400	386,300	381,683	386,227	314,080	\$9,062,742	\$9,039,642	\$8,306,609	

Actual generation as a percentage of average: 101.2%

Cost per MWh: \$26.45

Lake/Reservoir Content

The overall reservoir content at the end of January was 116 percent of average.

Weather and Other Conditions

While the Loveland Area Projects area is mostly drought free parts of the Bighorn Basin are now considered to be in a state of drought. The snowpack is above average for the Colorado-Big Thompson Project, below average in the North Platte Basin, and well below average in the Bighorn Basin. The latest National Weather Service forecast indicates March through May temperatures are more likely to be above normal in Wyoming and just as likely to be above as below normal in Colorado. The precipitation is more likely to be above normal in Colorado and southern Wyoming and just as likely to be above as below normal in northern Wyoming.

Sierra Nevada Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15			316.00	204.00	5.29	2.34	91,000	136,000	163,000	128,332	56,293	\$1,820,820	\$1,820,820	\$1,871,992
Nov 15	3.57	2.00	386.00	210.00	5.24	2.21	79,000	99,000	104,000	38,675	57,583	\$1,727,548	\$1,727,548	\$1,877,190
Dec 15	5.86	10.00	1,017.00	553.00	5.76	2.47	64,000	54,000	143,000	47,723	61,018	\$1,803,740	\$1,803,740	\$1,949,075
Jan 16	14.13	20.00	1,032.00	1,653.00	6.18	3.96	15,000	0	163,000	6,638	63,436	\$1,393,030	\$1,393,030	\$1,846,712
Feb 16														
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							249,000	289,000	573,000	221,368	238,330	\$6,745,138	\$6,745,138	\$7,544,969

Actual generation as a percentage of average: 38.6%

Cost per MWh: \$31.66

Lake/Reservoir Content

As of February 22, accumulated inflow for the water year was 106 percent of the 15-year average for Trinity, 97 percent for Shasta, 101 percent for Folsom, and 100 percent for New Melones. The overall reservoir content at the end of January was 64 percent of average.

Weather and Other Conditions

As of February 22, cumulative precipitation of the Northern Sierra Eight Station Index is at 99 percent of average for the date, and 71 percent of the water year average. Forecasts began in December and are updated monthly based upon conditions as of the 1st of each month. The February 1, 2016 forecast is "critical" for the dry (90 percent) and "dry" for the most probable (50 percent) exceedence cases.

Note: The Sierra Nevada Region's (SNR) average projection of generation is taken from the latest modeling using the update to its customers' "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable projected expenses are based upon term purchases of 70-75 percent of projected power needs with the difference being left to day-ahead markets after project pumping and generation are scheduled.

Upper Great Plains Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1.20	0.40	8,092.00	5,998.12	55.94	59.52	669,483	656,625	956,575	700,663	10,200	\$2,558,807	\$2,815,967	\$976,281
Nov 15	3.80	2.90	7,411.00	5,642.70	54.83	58.73	691,201	630,517	915,920	617,861	153,340	\$3,840,879	\$5,054,569	\$2,871,261
Dec 15	7.10	7.00	6,468.00	5,109.00	54.23	58.41	597,319	592,071	697,821	574,005	326,672	\$7,428,458	\$7,533,428	\$5,357,450
Jan 16	10.30	9.50	6,658.00	6,634.00	53.94	57.73	851,947	847,187	751,422	788,581	99,386	\$2,211,235	\$2,306,445	\$2,886,007
Feb 16														
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							2,809,950	2,726,399	3,321,739	2,681,110	589,598	\$16,039,379	\$17,710,409	\$12,090,999

Actual generation as a percentage of average: 80.7%

Cost per MWh: \$20.51

Lake/Reservoir Content

As of February 16, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 77.8 percent and 84.2 percent full, respectively.

Weather and Other Conditions

A strong El Nino continues to be in place this winter, bringing milder than normal temperatures to the upper Great Plains. The January actual system runoff was 114 percent of average above Sioux City. As of February 1, snowpack was less than normal at 92 percent above Fort Peck and 72 percent between Fort Peck and Garrison.

Note: The Upper Great Plains Region (UGPR) reports its 50 percent share of generation from Yellowtail Dam, while the Rocky Mountain Region reports the snowpack, inflow, content, and remaining share of generation. UGPR's financial reports are in the process of being finalized, so the data indicated above may change.

**Western Area Power Administration
Hydro Conditions and Purchase Power Report
March 2016**

Western-Wide

	Generation (Megawatt-Hours [MWh])				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Projected Dry	Most Probable	Average	Actual		Projected Dry	Most Probable	Actual
Oct 15	1,434,895	1,538,279	1,966,014	1,612,157	273,603	\$13,412,993	\$10,002,458	\$7,576,439
Nov 15	1,378,403	1,448,916	1,852,469	1,385,316	433,893	\$16,197,285	\$14,195,619	\$10,102,495
Dec 15	1,325,629	1,506,717	1,755,293	1,497,975	519,702	\$19,371,552	\$13,648,145	\$11,006,080
Jan 16	1,709,435	1,760,027	1,882,890	1,735,645	297,093	\$9,493,892	\$5,902,813	\$7,045,364
Feb 16	1,365,511	1,491,899	1,746,941	1,516,513	143,174	\$12,320,267	\$8,662,264	\$3,873,728
Mar 16								
Apr 16								
May 16								
Jun 16								
Jul 16								
Aug 16								
Sep 16								
Total	7,213,874	7,745,836	9,203,606	7,747,606	1,667,464	\$70,795,990	\$52,411,299	\$39,604,106
	Actual generation as a percentage of average: 84.2%					Cost per MWh: \$23.75		

Western Area Power Administration (Western) generated a total of 7,748 gigawatt-hours (GWh) during October through February of fiscal year 2016, or 84.2 percent of the average. For the same period, total purchase power was 1,667 GWh and total purchase power expenses were \$39,604,106, which equates to \$23.75 per MWh.

The following pages indicate Western’s Regional snowpack, lake/reservoir inflow and content, generation, and purchase power expenses, among other things. Snowpack is reported as snow water equivalent, which is the depth of water that theoretically would result if the entire snowpack is melted instantaneously.

Colorado River Storage Project

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	408.80	636.00	15.01	12.29	248,012	340,194	382,430	379,732	71,798	\$6,704,081	\$2,989,589	\$2,100,360
Nov 15	1.80	3.90	510.71	420.00	14.91	11.93	230,952	316,064	388,155	340,308	106,233	\$7,549,826	\$4,237,967	\$2,748,918
Dec 15	4.00	7.90	474.22	465.00	14.86	11.54	270,310	443,456	437,962	472,018	38,014	\$7,692,571	\$1,952,432	\$1,129,176
Jan 16	11.50	11.20	363.30	300.00	14.98	11.33	355,138	441,000	457,394	481,075	35,898	\$4,412,679	\$619,112	\$1,067,937
Feb 16	15.10	13.40	362.24	396.00	15.99	11.22	265,647	347,936	390,580	400,465	51,902	\$5,024,221	\$1,432,878	\$1,531,914
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							1,370,059	1,888,650	2,056,521	2,073,598	303,845	\$31,383,377	\$11,231,978	\$8,578,305

Actual generation as a percentage of average: 100.8%

Cost per MWh: \$28.23

Lake/Reservoir Levels

Lake Powell's elevation was 3,594 feet at the end of February, about 106 feet below the maximum reservoir level and about 104 feet above the minimum generation level. Current storage volume for Lake Powell is 11,200,000 acre-feet, which is about 46 percent of capacity.

Weather and Other Conditions

No unusual conditions reported.

Desert Southwest Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	59.90	119.00	20.40	12.01	339,700	319,060	379,926	319,537	1,105	\$0	\$36,896	\$36,896
Nov 15	1.80	3.90	53.51	41.00	20.44	11.95	312,250	338,035	363,256	330,812	136	\$25,378	\$131,780	\$4,408
Dec 15	4.00	7.90	73.77	42.00	20.57	12.23	288,100	310,990	373,314	318,054	1,795	\$243,930	\$165,592	\$60,635
Jan 16	11.50	11.20	93.00	90.00	20.71	12.52	359,550	343,440	397,807	341,451	995	\$0	\$120,478	\$34,984
Feb 16	15.10	13.40	109.40	81.00	20.74	12.56	334,500	386,660	391,662	382,329	305	\$0	\$0	\$10,623
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							1,634,100	1,698,185	1,905,965	1,692,183	4,336	\$269,308	\$454,746	\$147,546

Actual generation as a percentage of average: 88.8%

Cost per MWh: \$34.03

Lake/Reservoir Levels

Lake Mead's elevation was 1,084 feet at the end of February, about 135 feet below full storage level and about 34 feet above the minimum generation level.

Weather and Other Conditions

The Desert Southwest Region's hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The WY 2016 precipitation is currently 94 percent of average.

Rocky Mountain Region

Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)			
Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual	
		138.60	117.70	3.85	4.44	86,700	86,400	84,083	86,111	85,616	\$2,329,286	\$2,339,186	\$2,380,387	
		120.30	107.00	3.85	4.44	65,000	65,300	81,138	65,774	96,455	\$3,053,655	\$3,043,755	\$2,568,247	
Oct 15		98.80	98.40	3.82	4.42	105,900	106,200	103,195	107,384	91,229	\$2,202,853	\$2,192,953	\$2,481,846	
Nov 15	246.40	205.10	96.20	101.70	3.80	4.41	127,800	128,400	113,267	126,958	52,779	\$1,476,948	\$1,463,748	\$1,182,038
Dec 15	417.90	393.40	95.00	110.00	3.80	4.44	118,200	120,600	101,392	113,311	33,187	\$620,631	\$544,731	\$716,101
Feb 16	849.60	818.20												
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total						503,600	506,900	483,075	499,538	359,266	\$9,683,373	\$9,584,373	\$9,328,619	

Actual generation as a percentage of average: 103.4%

Cost per MWh: \$25.97

Lake/Reservoir Content

The overall reservoir content at the end of February was 117 percent of average.

Weather and Other Conditions

While the Loveland Area Projects area is mostly drought free parts of the Bighorn Basin are now considered to be in a state of drought. The snowpack is average for the Colorado-Big Thompson Project, below average in the North Platte Basin, and well below average in the Bighorn Basin. The latest National Weather Service forecast indicates April through June temperatures are more likely to be above normal in Wyoming and western and north central Colorado, and just as likely to be above as below normal in eastern and south central Colorado. The precipitation is more likely to be above normal in both Colorado and Wyoming.

Note: The Rocky Mountain Region's (RMR) more recent reported purchase power data are provisional values and may change.

Sierra Nevada Region

Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
		316.00	204.00	5.29	2.34	91,000	136,000	163,000	128,332	56,293	\$1,820,820	\$1,820,820	\$1,871,992
Oct 15													
Nov 15	3.57	2.00	386.00	210.00	5.24	2.21	79,000	99,000	104,000	38,675	57,583	\$1,727,548	\$1,877,190
Dec 15	5.86	10.00	1,017.00	553.00	5.76	2.47	64,000	54,000	143,000	47,723	61,018	\$1,803,740	\$1,949,075
Jan 16	14.13	20.00	1,032.00	1,653.00	6.18	3.96	15,000	0	163,000	6,638	63,436	\$1,393,030	\$1,846,712
Feb 16	15.01	21.00	1,017.00	1,084.00	6.72	4.69	15,000	5,000	195,000	19,879	57,780	\$1,309,570	\$1,615,090
Mar 16													
Apr 16													
May 16													
Jun 16													
Jul 16													
Aug 16													
Sep 16													
Total						264,000	294,000	768,000	241,247	296,110	\$8,054,708	\$8,054,708	\$9,160,059

Actual generation as a percentage of average: 31.4%

Cost per MWh: \$30.93

Lake/Reservoir Content

As of March 15, accumulated inflow for the water year was 145 percent of the 15-year average for Trinity, 121 percent for Shasta, 127 percent for Folsom, and 114 percent for New Melones. The overall reservoir content at the end of February was 70 percent of average.

Weather and Other Conditions

As of March 15, cumulative precipitation of the Northern Sierra Eight Station Index is at 115 percent of average for the date, and 98 percent of the water year average. Forecasts began in December and are updated monthly based upon conditions as of the 1st of each month. The March 1, 2016 forecast is "critical" for the dry (90 percent) and "dry" for the most probable (50 percent) exceedence cases.

Note: The Sierra Nevada Region's (SNR) average projection of generation is taken from the latest modeling using the update to its customers' "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable projected expenses are based upon term purchases of 70-75 percent of projected power needs with the difference being left to day-ahead markets after project pumping and generation are scheduled.

Upper Great Plains Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1.20	0.40	8,092.00	5,998.12	55.94	59.52	669,483	656,625	956,575	698,445	58,791	\$2,558,807	\$2,815,967	\$1,186,804
Nov 15	3.80	2.90	7,411.00	5,642.70	54.83	58.73	691,201	630,517	915,920	609,747	173,486	\$3,840,879	\$5,054,569	\$2,903,732
Dec 15	7.10	7.00	6,468.00	5,109.00	54.23	58.41	597,319	592,071	697,821	552,796	327,646	\$7,428,458	\$7,533,428	\$5,385,348
Jan 16	10.30	9.50	6,658.00	6,634.00	53.94	57.73	851,947	847,187	751,422	779,523	143,984	\$2,211,235	\$2,306,445	\$2,913,693
Feb 16	12.90	11.50	6,291.00	6,046.50	54.25	58.30	632,165	631,703	668,307	600,529	0	\$5,365,845	\$5,375,085	\$0
Mar 16														
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							3,442,115	3,358,101	3,990,046	3,241,040	703,907	\$21,405,224	\$23,085,494	\$12,389,577

Actual generation as a percentage of average: 81.2%

Cost per MWh: \$17.60

Lake/Reservoir Content

As of March 21, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 78.0 percent and 81.3 percent full, respectively.

Weather and Other Conditions

Warmer-than-normal temperatures in February resulted in early melting of the plains snowpack, and the February actual system runoff was 170 percent of average above Sioux City. As of March 1, snowpack was at 88 percent above Fort Peck and 75 percent between Fort Peck and Garrison.

Note: The Upper Great Plains Region (UGPR) reports its 50 percent share of generation from Yellowtail Dam, while RMR reports the snowpack, inflow, content, and remaining share of generation. UGPR's financial reports are in the process of being finalized, so its reported purchase power data may change.

Western Area Power Administration Hydro Conditions and Purchase Power Report April 2016

Western-Wide

	Generation (Megawatt-Hours [MWh])				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Projected Dry	Most Probable	Average	Actual		Projected Dry	Most Probable	Actual
Oct 15	1,434,895	1,538,279	1,966,014	1,612,157	265,079	\$13,412,993	\$10,002,458	\$7,273,130
Nov 15	1,378,403	1,448,916	1,852,469	1,385,316	416,430	\$16,197,285	\$14,195,619	\$9,530,629
Dec 15	1,325,629	1,506,717	1,755,293	1,497,975	493,359	\$19,371,552	\$13,648,145	\$10,163,658
Jan 16	1,709,435	1,760,027	1,882,890	1,735,645	281,726	\$9,493,892	\$5,902,813	\$6,768,708
Feb 16	1,365,511	1,491,899	1,746,941	1,516,513	379,479	\$12,320,267	\$8,662,264	\$7,673,322
Mar 16	1,696,021	1,715,754	1,987,844	1,769,248				
Apr 16								
May 16								
Jun 16								
Jul 16								
Aug 16								
Sep 16								
Total	8,909,895	9,461,590	11,191,451	9,516,853	1,836,072	\$70,795,990	\$52,411,299	\$41,409,447
	Actual generation as a percentage of average: 85.0%					Cost per MWh: \$22.55		

Western Area Power Administration (Western) generated a total of 9,517 gigawatt-hours (GWh) during October through March of fiscal year 2016, or 85.0 percent of the average. Actual purchase power data is currently available from October through February for all of Western's Regions, and during this period total purchase power was 1,836 GWh and total purchase power expenses were \$41,409,447, which equates to \$22.55 per MWh.

The following pages indicate Western's Regional snowpack, lake/reservoir inflow and content, generation, and purchase power expenses, among other things. Snowpack is reported as snow water equivalent, which is the depth of water that theoretically would result if the entire snowpack is melted instantaneously.

Colorado River Storage Project

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	408.80	636.00	15.01	12.29	248,012	340,194	382,430	379,732	71,798	\$6,704,081	\$2,989,589	\$2,100,360
Nov 15	1.80	3.90	510.71	420.00	14.91	11.93	230,952	316,064	388,155	340,308	106,233	\$7,549,826	\$4,237,967	\$2,748,918
Dec 15	4.00	7.90	474.22	465.00	14.86	11.54	270,310	443,456	437,962	472,018	38,014	\$7,692,571	\$1,952,432	\$1,129,176
Jan 16	11.50	11.20	363.30	300.00	14.98	11.33	355,138	441,000	457,394	481,075	35,898	\$4,412,679	\$619,112	\$1,067,937
Feb 16	15.10	13.40	362.24	396.00	15.99	11.22	265,647	347,936	390,580	400,465	51,902	\$5,024,221	\$1,432,878	\$1,531,914
Mar 16	18.90	17.10	391.67	553.00	16.77	11.02	272,465	293,073	390,170	355,405	110,494	\$5,517,603	\$2,975,893	\$2,915,399
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							1,642,525	2,181,723	2,446,691	2,429,003	414,339	\$36,900,980	\$14,207,871	\$11,493,704

Actual generation as a percentage of average: 99.3%

Cost per MWh: \$27.74

Lake/Reservoir Levels

Lake Powell's elevation was 3,592 feet at the end of March, about 108 feet below the maximum reservoir level and about 102 feet above the minimum generation level. Current storage volume for Lake Powell is 11,019,000 acre-feet, which is about 45 percent of capacity.

Weather and Other Conditions

No unusual conditions reported.

Desert Southwest Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	59.90	119.00	20.40	12.01	339,700	319,060	379,926	319,537	1,105	\$0	\$36,896	\$36,896
Nov 15	1.80	3.90	53.51	41.00	20.44	11.95	312,250	338,035	363,256	330,812	136	\$25,378	\$131,780	\$4,408
Dec 15	4.00	7.90	73.77	42.00	20.57	12.23	288,100	310,990	373,314	318,054	1,795	\$243,930	\$165,592	\$60,635
Jan 16	11.50	11.20	93.00	90.00	20.71	12.52	359,550	343,440	397,807	341,451	995	\$0	\$120,478	\$34,984
Feb 16	15.10	13.40	109.40	81.00	20.74	12.56	334,500	386,660	391,662	382,329	305	\$0	\$0	\$10,623
Mar 16	18.90	17.10	102.88	31.00	20.54	12.32	546,500	546,625	531,952	545,047	1,466	\$72,029	\$0	\$50,284
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							2,180,600	2,244,810	2,437,917	2,237,230	5,802	\$341,337	\$454,746	\$197,830

Actual generation as a percentage of average: 91.8%

Cost per MWh: \$34.10

Lake/Reservoir Levels

Lake Mead's elevation was 1,080 feet at the end of March, about 139 feet below full storage level and about 30 feet above the minimum generation level.

Weather and Other Conditions

The Desert Southwest Region's hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The water year 2016 precipitation is currently 94 percent of average.

Rocky Mountain Region

Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
		138.60	117.70	3.85	4.44	86,700	86,400	84,083	86,111	77,092	\$2,329,286	\$2,339,186	\$2,077,078
		120.30	107.00	3.85	4.44	65,000	65,300	81,138	65,774	78,992	\$3,053,655	\$3,043,755	\$1,996,381
Oct 15		98.80	98.40	3.82	4.42	105,900	106,200	103,195	107,384	64,886	\$2,202,853	\$2,192,953	\$1,639,424
Nov 15		96.20	101.70	3.80	4.41	127,800	128,400	113,267	126,958	37,412	\$1,476,948	\$1,463,748	\$905,382
Dec 15	246.40	205.10	95.00	110.00	3.80	4.44	118,200	120,600	101,392	113,311	\$620,631	\$544,731	\$593,731
Jan 16	417.90	393.40	158.40	145.20	3.83	4.49	134,300	155,500	120,394	117,455	\$493,482	\$0	\$674,706
Feb 16	849.60	818.20											
Mar 16	1,065.10	1,012.90											
Apr 16													
May 16													
Jun 16													
Jul 16													
Aug 16													
Sep 16													
Total						637,900	662,400	603,469	616,993	322,809	\$10,176,855	\$9,584,373	\$7,886,702

Actual generation as a percentage of average: 102.2%

Cost per MWh: \$24.43

Lake/Reservoir Content

The overall reservoir content at the end of March was 117 percent of average.

Weather and Other Conditions

While the Loveland Area Projects area is mostly drought free, parts of the Bighorn Basin are now considered to be in a state of drought. The snowpack is above average for the Colorado-Big Thompson Project and near average in the North Platte and Bighorn Basins. The latest National Weather Service forecast indicates May through July temperatures are more likely to be above normal in Wyoming and just as likely to be above as below normal in Colorado. The precipitation is more likely to be above normal in both Colorado and Wyoming.

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

Sierra Nevada Region

Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
		316.00	204.00	5.29	2.34	91,000	136,000	163,000	128,332	56,293	\$1,820,820	\$1,820,820	\$1,871,992
Oct 15													
Nov 15	3.57	2.00	386.00	210.00	5.24	2.21	79,000	99,000	104,000	38,675	57,583	\$1,727,548	\$1,877,190
Dec 15	9.43	10.00	1,017.00	553.00	5.76	2.47	64,000	54,000	143,000	47,723	61,018	\$1,803,740	\$1,949,075
Jan 16	17.70	20.00	1,032.00	1,653.00	6.18	3.96	15,000	0	163,000	6,638	63,436	\$1,393,030	\$1,846,712
Feb 16	24.71	21.00	1,017.00	1,084.00	6.72	4.69	15,000	5,000	195,000	19,879	57,780	\$1,309,570	\$1,615,090
Mar 16	27.91	24.00	1,455.00	2,955.00	7.45	6.62	30,000	75,000	207,000	162,709	47,458	\$1,399,243	\$1,560,088
Apr 16													
May 16													
Jun 16													
Jul 16													
Aug 16													
Sep 16													
Total						294,000	369,000	975,000	403,956	343,568	\$9,453,951	\$9,453,951	\$10,720,147

Actual generation as a percentage of average: 41.4%

Cost per MWh: \$31.20

Lake/Reservoir Content

As of March 31, accumulated inflow for the water year was 147 percent of the 15-year average for Trinity, 124 percent for Shasta, 131 percent for Folsom, and 117 percent for New Melones. Reservoir storage as of the same date was 73 percent of the 15-year average for Trinity, 112 percent for Shasta, 109 percent for Folsom, and 42 percent for New Melones. Shasta and Folsom were in flood control.

Weather and Other Conditions

As of March 15, cumulative precipitation of the Northern Sierra Eight Station Index is at 120 percent of average for the date, and 103 percent of the water year average. The April 1, 2016 forecast is "below normal" for both the dry (90 percent) and most probable (50 percent) exceedence cases.

Note: The Sierra Nevada Region's (SNR) average projection of generation is taken from the latest modeling using the update to its customers' "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable projected expenses are based upon term purchases of 70-75 percent of projected power needs with the difference being left to day-ahead markets after project pumping and generation are scheduled.

Upper Great Plains Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1.20	0.40	8,092.00	5,998.12	55.94	59.52	669,483	656,625	956,575	698,445	58,791	\$2,558,807	\$2,815,967	\$1,186,804
Nov 15	3.80	2.90	7,411.00	5,642.70	54.83	58.73	691,201	630,517	915,920	609,747	173,486	\$3,840,879	\$5,054,569	\$2,903,732
Dec 15	7.10	7.00	6,468.00	5,109.00	54.23	58.41	597,319	592,071	697,821	552,796	327,646	\$7,428,458	\$7,533,428	\$5,385,348
Jan 16	10.30	9.50	6,658.00	6,634.00	53.94	57.73	851,947	847,187	751,422	779,523	143,984	\$2,211,235	\$2,306,445	\$2,913,693
Feb 16	12.90	11.50	6,291.00	6,046.50	54.25	58.30	632,165	631,703	668,307	600,529	246,550	\$5,365,845	\$5,375,085	\$3,921,964
Mar 16	15.80	15.00	8,226.00	5,636.40	56.02	58.46	712,756	645,556	738,328	588,632	*	\$2,507,548	\$3,851,538	*
Apr 16														
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							4,154,870	4,003,657	4,728,374	3,829,672	950,457	\$23,912,772	\$26,937,032	\$16,311,541

Actual generation as a percentage of average: 81.0%

Cost per MWh: \$17.16

Lake/Reservoir Content

As of April 25, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 81.8 percent and 79.1 percent full, respectively.

Weather and Other Conditions

The March actual system runoff was 59 percent of normal above Sioux City. Temperatures have been above normal this spring throughout the upper Midwest, but some late spring snowfall helped increase the snowpack numbers from the month before. As of April 1, snowpack was at 97 percent above Fort Peck and 89 percent on the reach from Fort Peck to Garrison.

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

**WESTERN AREA POWER ADMINISTRATION
HYDRO CONDITIONS AND PURCHASE POWER REPORT
MAY 2016**

Agency-wide

	Generation (Megawatt-Hours [MWh])				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Projected <u>Dry</u>	Most <u>Probable</u>	<u>Average</u>	<u>Actual</u>	<u>Actual</u>	Projected <u>Dry</u>	Most <u>Probable</u>	<u>Actual</u>
Oct 15	1,434,895	1,538,279	1,966,014	1,612,157	265,079	\$13,412,993	\$10,002,458	\$7,273,130
Nov 15	1,378,403	1,448,916	1,852,469	1,385,316	416,430	\$16,197,285	\$14,195,619	\$9,530,629
Dec 15	1,325,629	1,506,717	1,755,293	1,497,975	492,619	\$19,371,552	\$13,648,145	\$10,145,106
Jan 16	1,709,435	1,760,027	1,882,890	1,735,645	273,084	\$9,493,892	\$5,902,813	\$6,561,179
Feb 16	1,365,511	1,491,899	1,746,941	1,516,513	379,479	\$12,320,267	\$8,662,264	\$7,673,322
Mar 16	1,696,021	1,715,754	1,987,844	1,769,248	360,003	\$9,989,905	\$8,226,674	\$6,897,196
Apr 16	1,811,037	1,901,810	2,228,272	1,872,005				
May 16								
Jun 16								
Jul 16								
Aug 16								
Sep 16								
Total	10,720,931	11,363,400	13,419,723	11,388,858	2,186,693	\$80,785,895	\$60,637,973	\$48,080,562
	Actual generation as a percentage of average: 84.9%					Cost per MWh: \$21.99		

Western Area Power Administration (WAPA) generated a total of 11,389 gigawatt-hours (GWh) during October through April of fiscal year 2016, or 84.9 percent of the average. Actual purchase power data is currently available from October through March for all of WAPA's Regions, and during this period total purchase power was 2,187 GWh and total purchase power expenses were \$48,080,562, which equates to \$21.99 per MWh.

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

Colorado River Storage Project

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	514.42	535.00	15.01	12.29	248,012	340,194	382,430	379,732	71,798	\$6,704,081	\$2,989,589	\$2,100,360
Nov 15	1.80	3.90	474.23	421.00	14.91	11.93	230,952	316,064	388,155	340,308	106,233	\$7,549,826	\$4,237,967	\$2,748,918
Dec 15	4.00	7.90	362.96	294.00	14.86	11.54	270,310	443,456	437,962	472,018	38,014	\$7,692,571	\$1,952,432	\$1,129,176
Jan 16	11.50	11.20	361.45	300.00	14.98	11.33	355,138	441,000	457,394	481,075	35,898	\$4,412,679	\$619,112	\$1,067,937
Feb 16	15.10	13.40	392.01	396.00	15.99	11.22	265,647	347,936	390,580	400,465	51,902	\$5,024,221	\$1,432,878	\$1,531,914
Mar 16	18.90	17.10	666.27	553.00	16.77	11.02	272,465	293,073	390,170	355,405	110,494	\$5,517,603	\$2,975,893	\$2,915,399
Apr 16	19.40	17.50	1,057.14	814.00	16.74	11.01	250,695	277,986	397,861	382,353	33,650	\$3,468,325	\$1,850,278	\$606,969
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							1,893,220	2,459,709	2,844,551	2,811,356	447,989	\$40,369,305	\$16,058,149	\$12,100,673

Actual generation as a percentage of average: 98.8%

Cost per MWh: \$27.01

Lake/Reservoir Levels

Lake Powell's elevation was 3,592 feet at the end of April, about 108 feet below the maximum reservoir level and about 102 feet above the minimum generation level. Current storage volume for Lake Powell is 11,105,000 acre-feet, which is about 45 percent of capacity.

Weather and Other Conditions

No unusual conditions reported.



Desert Southwest Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	59.90	119.00	20.40	12.01	339,700	319,060	379,926	319,537	1,105	\$0	\$36,896	\$36,896
Nov 15	1.80	3.90	53.51	41.00	20.44	11.95	312,250	338,035	363,256	330,812	136	\$25,378	\$131,780	\$4,408
Dec 15	4.00	7.90	73.77	42.00	20.57	12.23	288,100	310,990	373,314	318,054	1,795	\$243,930	\$165,592	\$60,635
Jan 16	11.50	11.20	93.00	90.00	20.71	12.52	359,550	343,440	397,807	341,451	995	\$0	\$120,478	\$34,984
Feb 16	15.10	13.40	109.40	81.00	20.74	12.56	334,500	386,660	391,662	382,329	305	\$0	\$0	\$10,623
Mar 16	18.90	17.10	102.88	31.00	20.54	12.32	546,500	546,625	531,952	545,047	1,466	\$72,029	\$0	\$50,284
Apr 16	19.40	17.50	84.78	69.00	20.36	12.04	566,300	575,135	572,023	563,595	1,741	\$0	\$0	\$59,386
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							2,746,900	2,819,945	3,009,940	2,800,825	7,543	\$341,337	\$454,746	\$257,216

Actual generation as a percentage of average: 93.1%

Cost per MWh: \$34.10

Lake/Reservoir Levels

Lake Mead's elevation was 1,076 feet at the end of April, about 143 feet below full storage level and about 26 feet above the minimum generation level.

Weather and Other Conditions

The Desert Southwest Region's hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The water year 2016 precipitation is currently 101 percent of average.

Rocky Mountain Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15			138.60	117.70	3.85	4.44	86,700	86,400	84,083	86,111	77,092	\$2,329,286	\$2,339,186	\$2,077,078
Nov 15			120.30	107.00	3.85	4.44	65,000	65,300	81,138	65,774	78,992	\$3,053,655	\$3,043,755	\$1,996,381
Dec 15	246.40	205.10	98.80	98.40	3.82	4.42	105,900	106,200	103,195	107,384	64,146	\$2,202,853	\$2,192,953	\$1,620,872
Jan 16	417.90	393.40	96.20	101.70	3.80	4.41	127,800	128,400	113,267	126,958	28,770	\$1,476,948	\$1,463,748	\$697,853
Feb 16	849.60	818.20	95.00	110.00	3.80	4.44	118,200	120,600	101,392	113,311	22,942	\$620,631	\$544,731	\$593,731
Mar 16	1,065.10	1,012.90	158.40	145.20	3.83	4.49	134,300	155,500	120,394	117,455	20,003	\$493,482	\$0	\$432,138
Apr 16	1,341.70	1,422.60	253.10	339.90	3.85	4.71	140,800	169,700	140,578	119,364	60,407	\$1,174,107	\$217,107	\$959,741
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							778,700	832,100	744,047	736,357	352,352	\$11,350,962	\$9,801,480	\$8,377,794

Actual generation as a percentage of average: 99.0%

Cost per MWh: \$23.78

Lake/Reservoir Content

The overall reservoir content at the end of April was 122 percent of average.

Weather and Other Conditions

The Loveland Area Projects (LAP) area is drought free except for a small part of the Bighorn Basin. The snowpack is above average for the Colorado-Big Thompson Project and North Platte Basin, and has improved but is still below average in the Bighorn Basin. The latest National Weather Service forecast indicates June through August temperatures and precipitation are both more likely to be above normal in the LAP area. The spring snow melt runoff is forecast to be above average in all three basins.

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

Sierra Nevada Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15			316.00	204.00	5.29	2.34	91,000	136,000	163,000	128,332	56,293	\$1,820,820	\$1,820,820	\$1,871,992
Nov 15	3.57	2.00	386.00	210.00	5.24	2.21	79,000	99,000	104,000	38,675	57,583	\$1,727,548	\$1,727,548	\$1,877,190
Dec 15	9.43	10.00	1,017.00	553.00	5.76	2.47	64,000	54,000	143,000	47,723	61,018	\$1,803,740	\$1,803,740	\$1,949,075
Jan 16	17.70	20.00	1,032.00	1,653.00	6.18	3.96	15,000	0	163,000	6,638	63,436	\$1,393,030	\$1,393,030	\$1,846,712
Feb 16	24.71	21.00	1,017.00	1,084.00	6.72	4.69	15,000	5,000	195,000	19,879	57,780	\$1,309,570	\$1,309,570	\$1,615,090
Mar 16	27.91	24.00	1,455.00	2,955.00	7.45	6.62	30,000	75,000	207,000	162,709	47,458	\$1,399,243	\$1,399,243	\$1,560,088
Apr 16	22.03	13.00	1,272.00	1,208.00	7.86	7.18	135,000	230,000	288,000	192,803	43,336	\$659,936	\$659,936	\$889,087
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							429,000	599,000	1,263,000	596,758	386,904	\$10,113,887	\$10,113,887	\$11,609,234

Actual generation as a percentage of average: 47.2%

Cost per MWh: \$30.01

Lake/Reservoir Content

As of April 30, accumulated inflow for the water year was 143 percent of the 15-year average for Trinity, 116 percent for Shasta, 124 percent for Folsom and 115 percent for New Melones. Reservoir storage as of the same date was 80 percent of 15-year average for Trinity, 111 percent for Shasta, 113 percent for Folsom and 42 percent for New Melones.

Weather and Other Conditions

As of April 30, cumulative precipitation of the Northern Sierra Eight Station Index was at 116 percent of average for the date, and 109 percent of the water year average. The May 1, 2016 forecast for the 50 percent exceedence case is the basis for the official year type declaration, which is "below normal" for this water year.

Note: The Sierra Nevada Region's (SNR) average projection of generation is taken from the latest modeling using the update to its customers' "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable projected expenses are based upon term purchases of 70-75 percent of projected power needs with the difference being left to day-ahead markets after project pumping and generation are scheduled.



Upper Great Plains Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1.20	0.40	8,092.00	5,998.12	55.94	59.52	669,483	656,625	956,575	698,445	58,791	\$2,558,807	\$2,815,967	\$1,186,804
Nov 15	3.80	2.90	7,411.00	5,642.70	54.83	58.73	691,201	630,517	915,920	609,747	173,486	\$3,840,879	\$5,054,569	\$2,903,732
Dec 15	7.10	7.00	6,468.00	5,109.00	54.23	58.41	597,319	592,071	697,821	552,796	327,646	\$7,428,458	\$7,533,428	\$5,385,348
Jan 16	10.30	9.50	6,658.00	6,634.00	53.94	57.73	851,947	847,187	751,422	779,523	143,984	\$2,211,235	\$2,306,445	\$2,913,693
Feb 16	12.90	11.50	6,291.00	6,046.50	54.25	58.30	632,165	631,703	668,307	600,529	246,550	\$5,365,845	\$5,375,085	\$3,921,964
Mar 16	15.80	15.00	8,226.00	5,636.40	56.02	58.46	712,756	645,556	738,328	588,632	180,582	\$2,507,548	\$3,851,538	\$1,939,287
Apr 16	15.10	11.00	8,061.00	6,579.20	56.91	59.23	718,242	648,989	829,810	613,890	*	\$1,502,829	\$2,887,889	*
May 16														
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							4,873,112	4,652,646	5,558,184	4,443,562	1,131,039	\$25,415,600	\$29,824,920	\$18,250,828

Actual generation as a percentage of average: 79.9%

Cost per MWh: \$16.14

Lake/Reservoir Content

As of May 25, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 93.2 percent and 83.3 percent full, respectively.

Weather and Other Conditions

The April actual system runoff was 89 percent of normal above Sioux City. Temperatures have been above normal this spring throughout the upper Midwest, and forecasts of La Nina this summer indicate the likelihood of warmer than normal conditions for the season.

Snowpack peaked on April 1. As of May 1, snowpack was at 75 percent above Fort Peck and 87 percent between Fort Peck and Garrison.

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

**WESTERN AREA POWER ADMINISTRATION
HYDRO CONDITIONS AND PURCHASE POWER REPORT
June 2016**

Agency-wide

	Generation (Megawatt-Hours [MWh])				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1,434,895	1,538,279	1,966,014	1,612,157	265,079	\$13,412,993	\$10,002,458	\$7,273,130
Nov 15	1,378,403	1,448,916	1,852,469	1,385,316	416,430	\$16,197,285	\$14,195,619	\$9,530,629
Dec 15	1,325,629	1,506,717	1,755,293	1,497,975	492,619	\$19,371,552	\$13,648,145	\$10,145,106
Jan 16	1,709,435	1,760,027	1,882,890	1,735,645	273,084	\$9,493,892	\$5,902,813	\$6,561,179
Feb 16	1,365,511	1,491,899	1,746,941	1,516,513	368,677	\$12,320,267	\$8,662,264	\$7,423,788
Mar 16	1,696,021	1,715,754	1,987,844	1,769,248	361,467	\$9,989,905	\$8,226,674	\$6,922,281
Apr 16	1,811,037	1,901,810	2,228,272	1,872,005	272,707	\$6,805,196	\$5,615,210	\$4,236,684
May 16	1,931,786	2,108,664	2,639,022	2,093,613				
Jun 16								
Jul 16								
Aug 16								
Sep 16								
Total	12,652,718	13,472,063	16,058,745	13,482,471	2,450,062	\$87,591,091	\$66,253,183	\$52,092,797
	Actual generation as a percentage of average: 84.0%					Cost per MWh: \$21.26		

Western Area Power Administration (WAPA) generated a total of 13,482 gigawatt-hours (GWh) during October through May of fiscal year 2016, or 84.0 percent of the average. Actual purchase power data is currently available from October through April for all of WAPA's Regions, and during this period total purchase power was 2,450 GWh and total purchase power expenses were \$52,092,797, which equates to \$21.26 per MWh.

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

Colorado River Storage Project

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	514.42	535.00	15.01	12.29	248,012	340,194	382,430	379,732	71,798	\$6,704,081	\$2,989,589	\$2,100,360
Nov 15	1.80	3.90	474.23	421.00	14.91	11.93	230,952	316,064	388,155	340,308	106,233	\$7,549,826	\$4,237,967	\$2,748,918
Dec 15	4.00	7.90	362.96	294.00	14.86	11.54	270,310	443,456	437,962	472,018	38,014	\$7,692,571	\$1,952,432	\$1,129,176
Jan 16	11.50	11.20	361.45	300.00	14.98	11.33	355,138	441,000	457,394	481,075	35,898	\$4,412,679	\$619,112	\$1,067,937
Feb 16	15.10	13.40	392.01	396.00	15.99	11.22	265,647	347,936	390,580	400,465	51,902	\$5,024,221	\$1,432,878	\$1,531,914
Mar 16	18.90	17.10	666.27	553.00	16.77	11.02	272,465	293,073	390,170	355,405	110,494	\$5,517,603	\$2,975,893	\$2,915,399
Apr 16	19.40	17.50	1,057.14	814.00	16.74	11.01	250,695	277,986	397,861	382,353	33,650	\$3,468,325	\$1,850,278	\$606,969
May 16	7.90	9.80	2,337.68	2,294.00	16.30	12.12	320,070	401,349	501,886	469,786	10,396	\$2,044,585	\$0	\$204,590
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							2,213,290	2,861,058	3,346,438	3,281,142	458,385	\$42,413,890	\$16,058,149	\$12,305,263

Actual generation as a percentage of average: 98.0%

Cost per MWh: \$26.84

Lake/Reservoir Levels

Lake Powell's elevation was 3,604 feet at the end of May, about 96 feet below the maximum reservoir level and about 114 feet above the minimum generation level. As of June 12, storage volume for Lake Powell was 12,814,000 acre-feet, which is about 53 percent of capacity.

Weather and Other Conditions

No unusual conditions reported.



Desert Southwest Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	59.90	119.00	20.40	12.01	339,700	319,060	379,926	319,537	1,105	\$0	\$36,896	\$36,896
Nov 15	1.80	3.90	53.51	41.00	20.44	11.95	312,250	338,035	363,256	330,812	136	\$25,378	\$131,780	\$4,408
Dec 15	4.00	7.90	73.77	42.00	20.57	12.23	288,100	310,990	373,314	318,054	1,795	\$243,930	\$165,592	\$60,635
Jan 16	11.50	11.20	93.00	90.00	20.71	12.52	359,550	343,440	397,807	341,451	995	\$0	\$120,478	\$34,984
Feb 16	15.10	13.40	109.40	81.00	20.74	12.56	334,500	386,660	391,662	382,329	305	\$0	\$0	\$10,623
Mar 16	18.90	17.10	102.88	31.00	20.54	12.32	546,500	546,625	531,952	545,047	1,466	\$72,029	\$0	\$50,284
Apr 16	19.40	17.50	84.78	69.00	20.36	12.04	566,300	575,135	572,023	563,595	1,741	\$0	\$0	\$59,386
May 16	7.90	9.80	59.92	51.00	20.48	11.79	526,800	475,675	572,254	481,582	8,377	\$118,258	\$226,470	\$283,143
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							3,273,700	3,295,620	3,582,194	3,282,407	15,920	\$459,595	\$681,216	\$540,359

Actual generation as a percentage of average: 91.6%

Cost per MWh: \$33.94

Lake/Reservoir Levels

Lake Mead's elevation was 1,074 feet at the end of May, about 146 feet below full storage level and about 24 feet above the minimum generation level.

Weather and Other Conditions

The Desert Southwest Region's hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The water year 2016 precipitation is currently 99 percent of average.

Rocky Mountain Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15			138.60	117.70	3.85	4.44	86,700	86,400	84,083	86,111	77,092	\$2,329,286	\$2,339,186	\$2,077,078
Nov 15			120.30	107.00	3.85	4.44	65,000	65,300	81,138	65,774	78,992	\$3,053,655	\$3,043,755	\$1,996,381
Dec 15	246.40	205.10	98.80	98.40	3.82	4.42	105,900	106,200	103,195	107,384	64,146	\$2,202,853	\$2,192,953	\$1,620,872
Jan 16	417.90	393.40	96.20	101.70	3.80	4.41	127,800	128,400	113,267	126,958	28,770	\$1,476,948	\$1,463,748	\$697,853
Feb 16	849.60	818.20	95.00	110.00	3.80	4.44	118,200	120,600	101,392	113,311	12,140	\$620,631	\$544,731	\$344,197
Mar 16	1,065.10	1,012.90	158.40	145.20	3.83	4.49	134,300	155,500	120,394	117,455	21,467	\$493,482	\$0	\$457,223
Apr 16	1,341.70	1,422.60	253.10	339.90	3.85	4.71	140,800	169,700	140,578	119,364	40,028	\$1,174,107	\$217,107	\$695,188
May 16	1,271.50	1,400.90	694.10	1,056.30	4.18	5.33	222,300	272,000	197,442	247,263	20,966	\$0	\$0	\$457,787
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							1,001,000	1,104,100	941,489	983,620	343,601	\$11,350,962	\$9,801,480	\$8,346,579

Actual generation as a percentage of average: 104.5%

Cost per MWh: \$24.29

Lake/Reservoir Content

The overall reservoir content at the end of May was 128 percent of average.

Weather and Other Conditions

The Loveland Area Projects (LAP) area continues to be drought free except for parts of the Bighorn Basin. The snowpack peaked above average in the Colorado-Big Thompson Project Upper Colorado River Headwaters and in the North Platte River Basin, and while the peak snowpack in the Bighorn Basin was below average it nonetheless peaked well above last year. The latest National Weather Service forecast indicates June through August temperatures are more likely to be above normal, and precipitation is just as likely to be above as below normal in the LAP area.

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

Sierra Nevada Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15			316.00	204.00	5.29	2.34	91,000	136,000	163,000	128,332	56,293	\$1,820,820	\$1,820,820	\$1,871,992
Nov 15	3.57	2.00	386.00	210.00	5.24	2.21	79,000	99,000	104,000	38,675	57,583	\$1,727,548	\$1,727,548	\$1,877,190
Dec 15	9.43	10.00	1,017.00	553.00	5.76	2.47	64,000	54,000	143,000	47,723	61,018	\$1,803,740	\$1,803,740	\$1,949,075
Jan 16	17.70	20.00	1,032.00	1,653.00	6.18	3.96	15,000	0	163,000	6,638	63,436	\$1,393,030	\$1,393,030	\$1,846,712
Feb 16	24.71	21.00	1,017.00	1,084.00	6.72	4.69	15,000	5,000	195,000	19,879	57,780	\$1,309,570	\$1,309,570	\$1,615,090
Mar 16	27.91	24.00	1,455.00	2,955.00	7.45	6.62	30,000	75,000	207,000	162,709	47,458	\$1,399,243	\$1,399,243	\$1,560,088
Apr 16	22.03	13.00	1,272.00	1,208.00	7.86	7.18	135,000	230,000	288,000	192,803	43,336	\$659,936	\$659,936	\$889,087
May 16	25.00	2.00	1,210.00	921.00	7.83	7.01	245,000	295,000	442,000	322,579	37,097	\$665,440	\$665,440	\$780,525
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							674,000	894,000	1,705,000	919,338	424,001	\$10,779,327	\$10,779,327	\$12,389,759

Actual generation as a percentage of average: 53.9%

Cost per MWh: \$29.22

Lake/Reservoir Content

As of May 31, accumulated inflow for the water year was 129 percent of the 15-year average for Trinity, 110 percent for Shasta, 117 percent for Folsom, and 111 percent for New Melones. Reservoir storage as of the same date was 75 percent of 15-year average for Trinity, 111 percent for Shasta, 103 percent for Folsom, and 44 percent for New Melones.

Weather and Other Conditions

As of May 31, cumulative precipitation of the Northern Sierra Eight Station Index was at 115 percent of average for the date, and 113 percent of the water year average. The May 1, 2016 forecast for the 50 percent exceedence case is the basis for the official year type declaration, which is "below normal" for this water year.

Note: The Sierra Nevada Region's (SNR) average projection of generation is taken from the latest modeling using the update to its customers' "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable projected expenses are based upon term purchases of 70-75 percent of projected power needs with the difference being left to day-ahead markets after project pumping and generation are scheduled.



Upper Great Plains Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
	Oct 15	1.20	0.40	8,092.00	5,998.12	55.94	59.52	669,483	656,625	956,575	698,445	58,791	\$2,558,807	\$2,815,967
Nov 15	3.80	2.90	7,411.00	5,642.70	54.83	58.73	691,201	630,517	915,920	609,747	173,486	\$3,840,879	\$5,054,569	\$2,903,732
Dec 15	7.10	7.00	6,468.00	5,109.00	54.23	58.41	597,319	592,071	697,821	552,796	327,646	\$7,428,458	\$7,533,428	\$5,385,348
Jan 16	10.30	9.50	6,658.00	6,634.00	53.94	57.73	851,947	847,187	751,422	779,523	143,984	\$2,211,235	\$2,306,445	\$2,913,693
Feb 16	12.90	11.50	6,291.00	6,046.50	54.25	58.30	632,165	631,703	668,307	600,529	246,550	\$5,365,845	\$5,375,085	\$3,921,964
Mar 16	15.80	15.00	8,226.00	5,636.40	56.02	58.46	712,756	645,556	738,328	588,632	180,582	\$2,507,548	\$3,851,538	\$1,939,287
Apr 16	15.10	11.00	8,061.00	6,579.20	56.91	59.23	718,242	648,989	829,810	613,890	153,952	\$1,502,829	\$2,887,889	\$1,986,054
May 16	6.60	4.30	9,699.00	6,872.50	58.18	61.10	617,617	664,640	925,440	572,402	*	\$3,150,160	\$2,209,700	*
Jun 16														
Jul 16														
Aug 16														
Sep 16														
Total							5,490,728	5,317,285	6,483,624	5,015,964	1,284,991	\$28,565,760	\$32,034,620	\$20,236,882

Actual generation as a percentage of average: 77.4%

Cost per MWh: \$15.75

Lake/Reservoir Content

As of June 20, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 100 percent and 91.2 percent full, respectively.

Weather and Other Conditions

The May actual system runoff was 136 percent of normal above Sioux City. Heavy spring rains fell in the lower Missouri River valley causing increased inflows, and the rains soaked the lower basin causing continued curtailments of upstream hydro generation. The increased runoff will not provide more generation this year but will maintain full reservoir levels heading into next year. As of June 1, snowpack was at 68 percent of average above Fort Peck and 68 percent of average between Fort Peck and Garrison.

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

**WESTERN AREA POWER ADMINISTRATION
HYDRO CONDITIONS AND PURCHASE POWER REPORT
July 2016**

Agency-wide

	Generation (Megawatt-Hours [MWh])				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1,434,895	1,538,279	1,966,014	1,612,146	265,079	\$13,412,993	\$10,002,458	\$7,273,130
Nov 15	1,378,403	1,448,916	1,852,469	1,385,304	416,430	\$16,197,285	\$14,195,619	\$9,530,629
Dec 15	1,325,629	1,506,717	1,755,293	1,497,963	492,619	\$19,371,552	\$13,648,145	\$10,145,106
Jan 16	1,709,435	1,760,027	1,882,890	1,735,632	273,084	\$9,493,892	\$5,902,813	\$6,561,179
Feb 16	1,365,511	1,491,899	1,746,941	1,516,502	368,677	\$12,320,267	\$8,662,264	\$7,423,788
Mar 16	1,696,021	1,715,754	1,987,844	1,769,235	361,467	\$9,989,905	\$8,226,674	\$6,922,281
Apr 16	1,811,037	1,901,810	2,228,272	1,871,997	272,707	\$6,805,196	\$5,615,210	\$4,236,684
May 16	1,931,786	2,108,664	2,639,022	2,093,597	218,141	\$5,978,443	\$3,101,610	\$4,035,539
Jun 16	1,977,210	2,187,855	2,718,068	2,458,933				
Jul 16								
Aug 16								
Sep 16								
Total	14,629,928	15,659,918	18,776,812	15,941,308	2,668,203	\$93,569,534	\$69,354,792	\$56,128,336
	Actual generation as a percentage of average: 84.9%					Cost per MWh: \$21.04		

Western Area Power Administration (WAPA) generated a total of 15,941 gigawatt-hours (GWh) during October through June of fiscal year 2016, or 84.9 percent of the average. Actual purchase power data is currently available from October through May for all of WAPA's Regions, and during this period total purchase power was 2,668 GWh and total purchase power expenses were \$56,128,336, which equates to \$21.04 per MWh.

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

Colorado River Storage Project

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	514.42	535.00	15.01	12.29	248,012	340,194	382,430	379,732	71,798	\$6,704,081	\$2,989,589	\$2,100,360
Nov 15	1.80	3.90	474.23	421.00	14.91	11.93	230,952	316,064	388,155	340,308	106,233	\$7,549,826	\$4,237,967	\$2,748,918
Dec 15	4.00	7.90	362.96	294.00	14.86	11.54	270,310	443,456	437,962	472,018	38,014	\$7,692,571	\$1,952,432	\$1,129,176
Jan 16	11.50	11.20	361.45	300.00	14.98	11.33	355,138	441,000	457,394	481,075	35,898	\$4,412,679	\$619,112	\$1,067,937
Feb 16	15.10	13.40	392.01	396.00	15.99	11.22	265,647	347,936	390,580	400,465	51,902	\$5,024,221	\$1,432,878	\$1,531,914
Mar 16	18.90	17.10	666.27	553.00	16.77	11.02	272,465	293,073	390,170	355,405	110,494	\$5,517,603	\$2,975,893	\$2,915,399
Apr 16	19.40	17.50	1,057.14	814.00	16.74	11.01	250,695	277,986	397,861	382,353	33,650	\$3,468,325	\$1,850,278	\$606,969
May 16	7.90	9.80	2,337.68	2,294.00	16.30	12.12	320,070	401,349	501,886	469,786	10,396	\$2,044,585	\$0	\$204,590
Jun 16	0.00	0.90	2,668.50	2,907.00	16.00	13.76	337,289	476,473	585,467	543,789	0	\$2,301,440	\$0	\$0
Jul 16														
Aug 16														
Sep 16														
Total							2,550,579	3,337,531	3,931,905	3,824,931	458,385	\$44,715,330	\$16,058,149	\$12,305,263

Actual generation as a percentage of average: 97.3%

Cost per MWh: \$26.84

Lake/Reservoir Levels

Lake Powell's elevation was 3,620 feet at the end of June, about 80 feet below the maximum reservoir level and about 130 feet above the minimum generation level. As of July 11, storage volume for Lake Powell was 13,909,000 acre-feet, which is about 57 percent of capacity.

Weather and Other Conditions

No unusual conditions reported.



Desert Southwest Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	59.90	119.00	20.40	12.01	339,700	319,060	379,926	319,537	1,105	\$0	\$36,896	\$36,896
Nov 15	1.80	3.90	53.51	41.00	20.44	11.95	312,250	338,035	363,256	330,812	136	\$25,378	\$131,780	\$4,408
Dec 15	4.00	7.90	73.77	42.00	20.57	12.23	288,100	310,990	373,314	318,054	1,795	\$243,930	\$165,592	\$60,635
Jan 16	11.50	11.20	93.00	90.00	20.71	12.52	359,550	343,440	397,807	341,451	995	\$0	\$120,478	\$34,984
Feb 16	15.10	13.40	109.40	81.00	20.74	12.56	334,500	386,660	391,662	382,329	305	\$0	\$0	\$10,623
Mar 16	18.90	17.10	102.88	31.00	20.54	12.32	546,500	546,625	531,952	545,047	1,466	\$72,029	\$0	\$50,284
Apr 16	19.40	17.50	84.78	69.00	20.36	12.04	566,300	575,135	572,023	563,595	1,741	\$0	\$0	\$59,386
May 16	7.90	9.80	59.92	51.00	20.48	11.79	526,800	475,675	572,254	481,582	8,377	\$118,258	\$226,470	\$283,143
Jun 16	0.00	0.90	26.60	15.00	20.69	11.67	461,050	472,185	538,244	479,488	12,982	\$354,423	\$352,116	\$459,822
Jul 16														
Aug 16														
Sep 16														
Total							3,734,750	3,767,805	4,120,438	3,761,895	28,902	\$814,018	\$1,033,332	\$1,000,181

Actual generation as a percentage of average: 91.3%

Cost per MWh: \$34.61

Lake/Reservoir Levels

Lake Mead's elevation was 1,072 feet at the end of June, about 148 feet below full storage level and about 22 feet above the minimum generation level.

Weather and Other Conditions

The Desert Southwest Region's hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The water year 2016 precipitation is currently 96 percent of average.



Rocky Mountain Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15			138.60	117.70	3.85	4.44	86,700	86,400	84,083	86,111	77,092	\$2,329,286	\$2,339,186	\$2,077,078
Nov 15			120.30	107.00	3.85	4.44	65,000	65,300	81,138	65,774	78,992	\$3,053,655	\$3,043,755	\$1,996,381
Dec 15	246.40	205.10	98.80	98.40	3.82	4.42	105,900	106,200	103,195	107,384	64,146	\$2,202,853	\$2,192,953	\$1,620,872
Jan 16	417.90	393.40	96.20	101.70	3.80	4.41	127,800	128,400	113,267	126,958	28,770	\$1,476,948	\$1,463,748	\$697,853
Feb 16	849.60	818.20	95.00	110.00	3.80	4.44	118,200	120,600	101,392	113,311	12,140	\$620,631	\$544,731	\$344,197
Mar 16	1,065.10	1,012.90	158.40	145.20	3.83	4.49	134,300	155,500	120,394	117,455	21,467	\$493,482	\$0	\$457,223
Apr 16	1,341.70	1,422.60	253.10	339.90	3.85	4.71	140,800	169,700	140,578	119,364	40,028	\$1,174,107	\$217,107	\$695,188
May 16	1,271.50	1,400.90	694.10	1,056.30	4.18	5.33	222,300	272,000	197,442	247,263	20,966	\$0	\$0	\$457,787
Jun 16	301.50	464.80	1,105.70	1,388.30	4.74	5.82	205,800	269,500	242,477	316,354	20,128	\$172,095	\$0	\$534,993
Jul 16														
Aug 16														
Sep 16														
Total							1,206,800	1,373,600	1,183,966	1,299,974	363,729	\$11,523,057	\$9,801,480	\$8,881,572

Actual generation as a percentage of average: 109.8%

Cost per MWh: \$24.42

Lake/Reservoir Content

The overall reservoir content at the end of June was 123 percent of average.

Weather and Other Conditions

The Loveland Area Projects (LAP) area continues to be drought free except for parts of the Bighorn Basin. The spring reservoir inflow was above average across the LAP area and well above average in the North Platte River basin. The LAP reservoir storage at the end of June was above average in all three basins with gains since the end of last June. The latest National Weather Service forecast indicates August through October temperatures are more likely to be above normal and precipitation is just as likely to be above as below normal in the LAP area.

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

Sierra Nevada Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
	Oct 15			316.00	204.00	5.29	2.34	91,000	136,000	163,000	128,332	56,293	\$1,820,820	\$1,820,820
Nov 15	3.57	2.00	386.00	210.00	5.24	2.21	79,000	99,000	104,000	38,675	57,583	\$1,727,548	\$1,727,548	\$1,877,190
Dec 15	9.43	10.00	1,017.00	553.00	5.76	2.47	64,000	54,000	143,000	47,723	61,018	\$1,803,740	\$1,803,740	\$1,949,075
Jan 16	17.70	20.00	1,032.00	1,653.00	6.18	3.96	15,000	0	163,000	6,638	63,436	\$1,393,030	\$1,393,030	\$1,846,712
Feb 16	24.71	21.00	1,017.00	1,084.00	6.72	4.69	15,000	5,000	195,000	19,879	57,780	\$1,309,570	\$1,309,570	\$1,615,090
Mar 16	27.91	24.00	1,455.00	2,955.00	7.45	6.62	30,000	75,000	207,000	162,709	47,458	\$1,399,243	\$1,399,243	\$1,560,088
Apr 16	22.03	13.00	1,272.00	1,208.00	7.86	7.18	135,000	230,000	288,000	192,803	43,336	\$659,936	\$659,936	\$889,087
May 16	25.00	2.00	1,210.00	921.00	7.83	7.01	245,000	295,000	442,000	322,579	37,097	\$665,440	\$665,440	\$780,525
Jun 16	0.00	0.00	749.00	537.00	7.38	6.54	280,000	320,000	440,000	353,394	39,345	\$659,936	\$659,936	\$800,734
Jul 16														
Aug 16														
Sep 16														
Total							954,000	1,214,000	2,145,000	1,272,732	463,347	\$11,439,263	\$11,439,263	\$13,190,493

Actual generation as a percentage of average: 59.3%

Cost per MWh: \$28.47

Lake/Reservoir Content

As of June 30, accumulated inflow for the water year was 119 percent of 15-year average for Trinity, 107 percent for Shasta, 113 percent for Folsom, and 107 percent for New Melones. Reservoir storage as of the same date was 71 percent of the 15-year average for Trinity, 114 percent for Shasta, 97 percent for Folsom, and remained at 44 percent for New Melones.

Weather and Other Conditions

As of June 30, cumulative precipitation of the Northern Sierra Eight Station Index was at 115 percent of average for the date, and 116 percent of the water year average. The May 1, 2016 forecast for the 50 percent exceedence case is the basis for the official year type declaration, which is "below normal" for this water year.

Note: The Sierra Nevada Region's (SNR) average projection of generation is taken from the latest modeling using the update to its customers' "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable projected expenses are based upon term purchases of 70-75 percent of projected power needs with the difference being left to day-ahead markets after project pumping and generation are scheduled.



Upper Great Plains Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1.20	0.40	8,092.00	5,998.12	55.94	59.52	669,483	656,625	956,575	698,434	58,791	\$2,558,807	\$2,815,967	\$1,186,804
Nov 15	3.80	2.90	7,411.00	5,642.70	54.83	58.73	691,201	630,517	915,920	609,735	173,486	\$3,840,879	\$5,054,569	\$2,903,732
Dec 15	7.10	7.00	6,468.00	5,109.00	54.23	58.41	597,319	592,071	697,821	552,784	327,646	\$7,428,458	\$7,533,428	\$5,385,348
Jan 16	10.30	9.50	6,658.00	6,634.00	53.94	57.73	851,947	847,187	751,422	779,510	143,984	\$2,211,235	\$2,306,445	\$2,913,693
Feb 16	12.90	11.50	6,291.00	6,046.50	54.25	58.30	632,165	631,703	668,307	600,518	246,550	\$5,365,845	\$5,375,085	\$3,921,964
Mar 16	15.80	15.00	8,226.00	5,636.40	56.02	58.46	712,756	645,556	738,328	588,619	180,582	\$2,507,548	\$3,851,538	\$1,939,287
Apr 16	15.10	11.00	8,061.00	6,579.20	56.91	59.23	718,242	648,989	829,810	613,882	153,952	\$1,502,829	\$2,887,889	\$1,986,054
May 16	6.60	4.30	9,699.00	6,872.50	58.18	61.10	617,617	664,640	925,440	572,386	141,305	\$3,150,160	\$2,209,700	\$2,309,494
Jun 16	0.60	0.00	11,819.00	7,634.60	60.38	67.92	693,071	649,697	911,880	765,908	*	\$2,485,887	\$3,353,377	*
Jul 16														
Aug 16														
Sep 16														
Total							6,183,799	5,966,982	7,395,504	5,781,776	1,426,296	\$31,051,647	\$35,387,997	\$22,546,376

Actual generation as a percentage of average: 78.2%

Cost per MWh: \$15.81

Lake/Reservoir Content

As of July 19, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 95.2 percent and 92.6 percent full, respectively.

Weather and Other Conditions

The wet spring has given way to drier conditions, and the June actual system runoff was 74 percent of normal above Sioux City.

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

**WESTERN AREA POWER ADMINISTRATION
HYDRO CONDITIONS AND PURCHASE POWER REPORT
August 2016**

Agency-wide

	Generation (Megawatt-Hours [MWh])				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Projected	Most	<u>Average</u>	<u>Actual</u>	<u>Actual</u>	Projected	Most	<u>Actual</u>
	<u>Dry</u>	<u>Probable</u>				<u>Dry</u>	<u>Probable</u>	
Oct 15	1,434,895	1,538,279	1,966,014	1,612,146	261,540	\$13,412,993	\$10,002,458	\$7,167,945
Nov 15	1,378,403	1,448,916	1,852,469	1,385,304	412,848	\$16,197,285	\$14,195,619	\$9,444,682
Dec 15	1,325,629	1,506,717	1,755,293	1,497,963	492,619	\$19,371,552	\$13,648,145	\$10,145,106
Jan 16	1,709,435	1,760,027	1,882,890	1,735,632	273,084	\$9,493,892	\$5,902,813	\$6,561,179
Feb 16	1,365,511	1,491,899	1,746,941	1,516,502	368,677	\$12,320,267	\$8,662,264	\$7,375,098
Mar 16	1,696,021	1,715,754	1,987,844	1,769,235	332,183	\$9,989,905	\$8,226,674	\$6,512,520
Apr 16	1,811,037	1,901,810	2,228,272	1,871,997	272,707	\$6,805,196	\$5,615,210	\$4,236,418
May 16	1,931,786	2,108,664	2,639,022	2,093,597	216,314	\$5,978,443	\$3,101,610	\$4,016,932
Jun 16	1,977,210	2,187,855	2,718,068	2,458,933	113,816	\$5,973,780	\$4,365,429	\$2,613,101
Jul 16	2,254,628	2,372,142	2,951,134	2,568,745				
Aug 16								
Sep 16								
Total	16,884,556	18,032,059	21,727,947	18,510,053	2,743,788	\$99,543,314	\$73,720,221	\$58,072,981
	Actual generation as a percentage of average: 85.2%					Cost per MWh: \$21.17		

Western Area Power Administration (WAPA) generated a total of 18,510 gigawatt-hours (GWh) during October through July of fiscal year 2016, or 85.2 percent of the average. Actual purchase power data is currently available from October through June for all of WAPA's Regions, and during this period total purchase power was 2,744 GWh and total purchase power expenses were \$58,072,981, which equates to \$21.17 per MWh.

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

Colorado River Storage Project

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
	Oct 15	0.20	0.80	514.42	535.00	15.01	12.29	248,012	340,194	382,430	379,732	71,798	\$6,704,081	\$2,989,589
Nov 15	1.80	3.90	474.23	421.00	14.91	11.93	230,952	316,064	388,155	340,308	106,233	\$7,549,826	\$4,237,967	\$2,748,918
Dec 15	4.00	7.90	362.96	294.00	14.86	11.54	270,310	443,456	437,962	472,018	38,014	\$7,692,571	\$1,952,432	\$1,129,176
Jan 16	11.50	11.20	361.45	300.00	14.98	11.33	355,138	441,000	457,394	481,075	35,898	\$4,412,679	\$619,112	\$1,067,937
Feb 16	15.10	13.40	392.01	396.00	15.99	11.22	265,647	347,936	390,580	400,465	51,902	\$5,024,221	\$1,432,878	\$1,531,914
Mar 16	18.90	17.10	666.27	553.00	16.77	11.02	272,465	293,073	390,170	355,405	110,494	\$5,517,603	\$2,975,893	\$2,915,399
Apr 16	19.40	17.50	1,057.14	814.00	16.74	11.01	250,695	277,986	397,861	382,353	33,650	\$3,468,325	\$1,850,278	\$606,969
May 16	7.90	9.80	2,337.68	2,294.00	16.30	12.12	320,070	401,349	501,886	469,786	10,396	\$2,044,585	\$0	\$204,590
Jun 16	0.00	0.90	2,668.50	2,907.00	16.00	13.76	337,289	476,473	585,467	543,789	0	\$2,301,440	\$0	\$0
Jul 16			1,093.88	595.00	15.88	13.58	436,357	508,082	612,093	604,720	88	\$708,807	\$0	\$1,647
Aug 16														
Sep 16														
Total							2,986,936	3,845,613	4,543,998	4,429,651	458,473	\$45,424,137	\$16,058,149	\$12,306,910

Actual generation as a percentage of average: 97.5%

Cost per MWh: \$26.84

Lake/Reservoir Levels

Lake Powell's elevation was 3,618 feet at the end of July, about 82 feet below the maximum reservoir level and about 128 feet above the minimum generation level. As of August 10, the storage volume for Lake Powell was 13,448,000 acre-feet, which is about 55 percent of capacity.

Weather and Other Conditions

No unusual conditions reported.



Desert Southwest Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	0.20	0.80	59.90	119.00	20.40	12.01	339,700	319,060	379,926	319,537	1,105	\$0	\$36,896	\$36,896
Nov 15	1.80	3.90	53.51	41.00	20.44	11.95	312,250	338,035	363,256	330,812	136	\$25,378	\$131,780	\$4,408
Dec 15	4.00	7.90	73.77	42.00	20.57	12.23	288,100	310,990	373,314	318,054	1,795	\$243,930	\$165,592	\$60,635
Jan 16	11.50	11.20	93.00	90.00	20.71	12.52	359,550	343,440	397,807	341,451	995	\$0	\$120,478	\$34,984
Feb 16	15.10	13.40	109.40	81.00	20.74	12.56	334,500	386,660	391,662	382,329	305	\$0	\$0	\$10,623
Mar 16	18.90	17.10	102.88	31.00	20.54	12.32	546,500	546,625	531,952	545,047	1,466	\$72,029	\$0	\$50,284
Apr 16	19.40	17.50	84.78	69.00	20.36	12.04	566,300	575,135	572,023	563,595	1,741	\$0	\$0	\$59,386
May 16	7.90	9.80	59.92	51.00	20.48	11.79	526,800	475,675	572,254	481,582	8,377	\$118,258	\$226,470	\$283,143
Jun 16	0.00	0.90	26.60	15.00	20.69	11.67	461,050	472,185	538,244	479,488	12,982	\$354,423	\$352,116	\$459,822
Jul 16	0.00	0.90	66.04	71.00	20.59	11.74	442,200	437,695	549,987	436,658	19,303	\$753,146	\$695,161	\$768,259
Aug 16														
Sep 16														
Total							4,176,950	4,205,500	4,670,425	4,198,554	48,205	\$1,567,164	\$1,728,493	\$1,768,440

Actual generation as a percentage of average: 89.9%

Cost per MWh: \$36.69

Lake/Reservoir Levels

Lake Mead's elevation was 1,073 feet at the end of July, about 147 feet below full storage level and about 23 feet above the minimum generation level.

Weather and Other Conditions

The Desert Southwest Region's hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The water year 2016 precipitation is currently 96 percent of average.

Rocky Mountain Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15			138.60	117.70	3.85	4.44	86,700	86,400	84,083	86,111	73,553	\$2,329,286	\$2,339,186	\$1,971,893
Nov 15			120.30	107.00	3.85	4.44	65,000	65,300	81,138	65,774	75,410	\$3,053,655	\$3,043,755	\$1,910,434
Dec 15	246.40	205.10	98.80	98.40	3.82	4.42	105,900	106,200	103,195	107,384	64,146	\$2,202,853	\$2,192,953	\$1,620,872
Jan 16	417.90	393.40	96.20	101.70	3.80	4.41	127,800	128,400	113,267	126,958	28,770	\$1,476,948	\$1,463,748	\$697,853
Feb 16	849.60	818.20	95.00	110.00	3.80	4.44	118,200	120,600	101,392	113,311	12,140	\$620,631	\$544,731	\$295,507
Mar 16	1,065.10	1,012.90	158.40	145.20	3.83	4.49	134,300	155,500	120,394	117,455	-7,817	\$493,482	\$0	\$47,462
Apr 16	1,341.70	1,422.60	253.10	339.90	3.85	4.71	140,800	169,700	140,578	119,364	40,028	\$1,174,107	\$217,107	\$694,922
May 16	1,271.50	1,400.90	694.10	1,056.30	4.18	5.33	222,300	272,000	197,442	247,263	19,139	\$0	\$0	\$439,180
Jun 16	301.50	464.80	1,105.70	1,388.30	4.74	5.82	205,800	269,500	242,477	316,354	20,861	\$172,095	\$0	\$606,406
Jul 16			521.10	290.10	4.45	5.35	233,700	268,000	255,437	246,991	41,650	\$934,923	\$0	\$1,311,052
Aug 16														
Sep 16														
Total							1,440,500	1,641,600	1,439,403	1,546,965	367,880	\$12,457,980	\$9,801,480	\$9,595,581

Actual generation as a percentage of average: 107.5%

Cost per MWh: \$26.08

Lake/Reservoir Content

The overall reservoir content at the end of July was 120 percent of average.

Weather and Other Conditions

The Loveland Area Projects (LAP) area remains mostly drought free, with small areas in the Bighorn River and lower North Platte River basins now considered to be in drought status. The spring reservoir inflow was above average across the LAP area and well above average in the North Platte River basin. The LAP reservoir storage at the end of July was above average in all three basins and, overall, the same as at the end of last July. The latest National Weather Service forecast indicates September through November temperatures are more likely to be above normal and precipitation is just as likely to be above as below normal in the LAP area.

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

Sierra Nevada Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
	Oct 15			316.00	204.00	5.29	2.34	91,000	136,000	163,000	128,332	56,293	\$1,820,820	\$1,820,820
Nov 15	3.57	2.00	386.00	210.00	5.24	2.21	79,000	99,000	104,000	38,675	57,583	\$1,727,548	\$1,727,548	\$1,877,190
Dec 15	9.43	10.00	1,017.00	553.00	5.76	2.47	64,000	54,000	143,000	47,723	61,018	\$1,803,740	\$1,803,740	\$1,949,075
Jan 16	17.70	20.00	1,032.00	1,653.00	6.18	3.96	15,000	0	163,000	6,638	63,436	\$1,393,030	\$1,393,030	\$1,846,712
Feb 16	24.71	21.00	1,017.00	1,084.00	6.72	4.69	15,000	5,000	195,000	19,879	57,780	\$1,309,570	\$1,309,570	\$1,615,090
Mar 16	27.91	24.00	1,455.00	2,955.00	7.45	6.62	30,000	75,000	207,000	162,709	47,458	\$1,399,243	\$1,399,243	\$1,560,088
Apr 16	22.03	13.00	1,272.00	1,208.00	7.86	7.18	135,000	230,000	288,000	192,803	43,336	\$659,936	\$659,936	\$889,087
May 16	25.00	2.00	1,210.00	921.00	7.83	7.01	245,000	295,000	442,000	322,579	37,097	\$665,440	\$665,440	\$780,525
Jun 16			749.00	537.00	7.38	6.54	280,000	320,000	440,000	353,394	39,345	\$659,936	\$659,936	\$800,734
Jul 16			432.00	353.00	6.57	5.76	290,000	315,000	524,000	422,571	37,314	\$1,112,590	\$1,112,590	\$1,114,377
Aug 16														
Sep 16														
Total							1,244,000	1,529,000	2,669,000	1,695,303	500,661	\$12,551,853	\$12,551,853	\$14,304,870

Actual generation as a percentage of average: 63.5%

Cost per MWh: \$28.57

Lake/Reservoir Content

As of July 31, accumulated inflow for the water year was 116 percent of 15-year average for Trinity, 106 percent for Shasta, 112 percent for Folsom, and 105 percent for New Melones. Reservoir storage as of the same date was 69 percent of the 15-year average for Trinity, 120 percent for Shasta, 81 percent for Folsom, and 43 percent for New Melones.

Weather and Other Conditions

As of July 31, cumulative precipitation of the Northern Sierra Eight Station Index was at 115 percent of average for the date, and 115 percent of the water year average. The May 1, 2016 forecast for the 50 percent exceedence case is the basis for the official year type declaration, which is "below normal" for this water year.

Note: The Sierra Nevada Region's (SNR) average projection of generation is taken from the latest modeling using the update to its customers' "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable projected expenses are based upon term purchases of 70-75 percent of projected power needs with the difference being left to day-ahead markets after project pumping and generation are scheduled.



Upper Great Plains Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1.20	0.40	8,092.00	5,998.12	55.94	59.52	669,483	656,625	956,575	698,434	58,791	\$2,558,807	\$2,815,967	\$1,186,804
Nov 15	3.80	2.90	7,411.00	5,642.70	54.83	58.73	691,201	630,517	915,920	609,735	173,486	\$3,840,879	\$5,054,569	\$2,903,732
Dec 15	7.10	7.00	6,468.00	5,109.00	54.23	58.41	597,319	592,071	697,821	552,784	327,646	\$7,428,458	\$7,533,428	\$5,385,348
Jan 16	10.30	9.50	6,658.00	6,634.00	53.94	57.73	851,947	847,187	751,422	779,510	143,984	\$2,211,235	\$2,306,445	\$2,913,693
Feb 16	12.90	11.50	6,291.00	6,046.50	54.25	58.30	632,165	631,703	668,307	600,518	246,550	\$5,365,845	\$5,375,085	\$3,921,964
Mar 16	15.80	15.00	8,226.00	5,636.40	56.02	58.46	712,756	645,556	738,328	588,619	180,582	\$2,507,548	\$3,851,538	\$1,939,287
Apr 16	15.10	11.00	8,061.00	6,579.20	56.91	59.23	718,242	648,989	829,810	613,882	153,952	\$1,502,829	\$2,887,889	\$1,986,054
May 16	6.60	4.30	9,699.00	6,872.50	58.18	61.10	617,617	664,640	925,440	572,386	141,305	\$3,150,160	\$2,209,700	\$2,309,494
Jun 16	0.60	0.00	11,819.00	7,634.60	60.38	61.91	693,071	649,697	911,880	765,908	40,628	\$2,485,887	\$3,353,377	\$746,139
Jul 16			10,827.00	7,228.20	60.36	61.13	852,371	843,365	1,009,617	857,805	*	\$2,067,561	\$2,247,681	*
Aug 16														
Sep 16														
Total							7,036,170	6,810,346	8,405,120	6,639,581	1,466,924	\$33,119,208	\$37,635,678	\$23,292,515

Actual generation as a percentage of average: 79.0%

Cost per MWh: \$15.88

Lake/Reservoir Content

As of August 24, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 85.2 percent and 88.5 percent full, respectively.

Weather and Other Conditions

The mountain snowpack melted by the end of June this year which was a couple of weeks earlier than normal, and this created below average inflows in July. The July actual system runoff was 69 percent of normal.

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

**WESTERN AREA POWER ADMINISTRATION
HYDRO CONDITIONS AND PURCHASE POWER REPORT
September 2016**

Agency-wide

	Generation (Megawatt-Hours [MWh])				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Projected <u>Dry</u>	Most <u>Probable</u>	<u>Average</u>	<u>Actual</u>	<u>Actual</u>	Projected <u>Dry</u>	Most <u>Probable</u>	<u>Actual</u>
Oct 15	1,434,895	1,538,279	1,966,014	1,612,146	261,540	\$13,412,993	\$10,002,458	\$7,167,945
Nov 15	1,378,403	1,448,916	1,852,469	1,385,304	412,848	\$16,197,285	\$14,195,619	\$9,444,682
Dec 15	1,325,629	1,506,717	1,755,293	1,497,963	492,619	\$19,371,552	\$13,648,145	\$10,145,106
Jan 16	1,709,435	1,760,027	1,882,890	1,735,632	273,084	\$9,493,892	\$5,902,813	\$6,561,179
Feb 16	1,365,511	1,491,899	1,746,941	1,516,502	368,677	\$12,320,267	\$8,662,264	\$7,375,098
Mar 16	1,696,021	1,715,754	1,987,844	1,769,235	332,183	\$9,989,905	\$8,226,674	\$6,512,520
Apr 16	1,811,037	1,901,810	2,228,272	1,871,997	261,063	\$6,805,196	\$5,615,210	\$3,974,380
May 16	1,931,786	2,108,664	2,639,022	2,093,597	207,284	\$5,978,443	\$3,101,610	\$3,824,730
Jun 16	1,977,210	2,187,855	2,718,068	2,458,933	113,816	\$5,973,780	\$4,365,429	\$2,613,101
Jul 16	2,254,628	2,372,142	2,951,134	2,568,745	124,870	\$5,577,027	\$4,055,432	\$3,673,660
Aug 16	2,126,275	2,195,698	2,730,139	2,318,352				
Sep 16								
Total	19,010,831	20,227,757	24,458,086	20,828,405	2,847,984	\$105,120,342	\$77,775,653	\$61,292,401
	Actual generation as a percentage of average: 85.2%					Cost per MWh: \$21.52		

Western Area Power Administration (WAPA) generated a total of 20,828 gigawatt-hours (GWh) during October through August of fiscal year 2016, or 85.2 percent of the average. Actual purchase power data is currently available from October through July for all of WAPA's Regions, and during this period total purchase power was 2,848 GWh and total purchase power expenses were \$61,292,401, which equates to \$21.52 per MWh.

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

Colorado River Storage Project

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
	Oct 15	0.20	0.80	514.42	535.00	15.01	12.29	248,012	340,194	382,430	379,732	71,798	\$6,704,081	\$2,989,589
Nov 15	1.80	3.90	474.23	421.00	14.91	11.93	230,952	316,064	388,155	340,308	106,233	\$7,549,826	\$4,237,967	\$2,748,918
Dec 15	4.00	7.90	362.96	294.00	14.86	11.54	270,310	443,456	437,962	472,018	38,014	\$7,692,571	\$1,952,432	\$1,129,176
Jan 16	11.50	11.20	361.45	300.00	14.98	11.33	355,138	441,000	457,394	481,075	35,898	\$4,412,679	\$619,112	\$1,067,937
Feb 16	15.10	13.40	392.01	396.00	15.99	11.22	265,647	347,936	390,580	400,465	51,902	\$5,024,221	\$1,432,878	\$1,531,914
Mar 16	18.90	17.10	666.27	553.00	16.77	11.02	272,465	293,073	390,170	355,405	110,494	\$5,517,603	\$2,975,893	\$2,915,399
Apr 16	19.40	17.50	1,057.14	814.00	16.74	11.01	250,695	277,986	397,861	382,353	33,650	\$3,468,325	\$1,850,278	\$606,969
May 16	7.90	9.80	2,337.68	2,294.00	16.30	12.12	320,070	401,349	501,886	469,786	10,396	\$2,044,585	\$0	\$204,590
Jun 16	0.00	0.90	2,668.50	2,907.00	16.00	13.76	337,289	476,473	585,467	543,789	0	\$2,301,440	\$0	\$0
Jul 16	0.00	0.90	1,093.88	595.00	15.88	13.58	436,357	508,082	612,093	604,720	88	\$708,807	\$0	\$1,647
Aug 16	0.00	0.90	496.08	253.00	15.68	13.09	429,891	488,585	574,470	565,084	1,416	\$1,004,331	\$0	\$26,626
Sep 16														
Total							3,416,827	4,334,198	5,118,468	4,994,735	459,889	\$46,428,468	\$16,058,149	\$12,333,536

Actual generation as a percentage of average: 97.6%

Cost per MWh: \$26.82

Lake/Reservoir Levels

Lake Powell's elevation was 3,614 feet at the end of August, about 86 feet below the maximum reservoir level and about 124 feet above the minimum generation level. The storage volume for Lake Powell was 13,091,000 acre-feet at the end of August, which is about 54 percent of capacity.

Weather and Other Conditions

No unusual conditions reported.



Desert Southwest Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
	Oct 15	0.20	0.80	59.90	119.00	20.40	12.01	339,700	319,060	379,926	319,537	1,105	\$0	\$36,896
Nov 15	1.80	3.90	53.51	41.00	20.44	11.95	312,250	338,035	363,256	330,812	136	\$25,378	\$131,780	\$4,408
Dec 15	4.00	7.90	73.77	42.00	20.57	12.23	288,100	310,990	373,314	318,054	1,795	\$243,930	\$165,592	\$60,635
Jan 16	11.50	11.20	93.00	90.00	20.71	12.52	359,550	343,440	397,807	341,451	995	\$0	\$120,478	\$34,984
Feb 16	15.10	13.40	109.40	81.00	20.74	12.56	334,500	386,660	391,662	382,329	305	\$0	\$0	\$10,623
Mar 16	18.90	17.10	102.88	31.00	20.54	12.32	546,500	546,625	531,952	545,047	1,466	\$72,029	\$0	\$50,284
Apr 16	19.40	17.50	84.78	69.00	20.36	12.04	566,300	575,135	572,023	563,595	1,741	\$0	\$0	\$59,386
May 16	7.90	9.80	59.92	51.00	20.48	11.79	526,800	475,675	572,254	481,582	8,377	\$118,258	\$226,470	\$283,143
Jun 16	0.00	0.90	26.60	15.00	20.69	11.67	461,050	472,185	538,244	479,488	12,982	\$354,423	\$352,116	\$459,822
Jul 16	0.00	0.90	66.04	71.00	20.59	11.74	442,200	437,695	549,987	436,658	19,303	\$753,146	\$695,161	\$768,259
Aug 16	0.00	0.90	99.79	106.00	20.46	11.88	391,150	363,910	514,205	376,935	27,002	\$1,174,078	\$1,174,078	\$1,086,290
Sep 16														
Total							4,568,100	4,569,410	5,184,630	4,575,488	75,207	\$2,741,242	\$2,902,571	\$2,854,730

Actual generation as a percentage of average: 88.3%

Cost per MWh: \$37.96

Lake/Reservoir Levels

Lake Mead's elevation was 1,075 feet at the end of August, about 144 feet below full storage level and about 25 feet above the minimum generation level.

Weather and Other Conditions

The Desert Southwest Region's hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The water year 2016 precipitation is currently 94 percent of average.

Rocky Mountain Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15			138.60	117.70	3.85	4.44	86,700	86,400	84,083	86,111	73,553	\$2,329,286	\$2,339,186	\$1,971,893
Nov 15			120.30	107.00	3.85	4.44	65,000	65,300	81,138	65,774	75,410	\$3,053,655	\$3,043,755	\$1,910,434
Dec 15	246.40	205.10	98.80	98.40	3.82	4.42	105,900	106,200	103,195	107,384	64,146	\$2,202,853	\$2,192,953	\$1,620,872
Jan 16	417.90	393.40	96.20	101.70	3.80	4.41	127,800	128,400	113,267	126,958	28,770	\$1,476,948	\$1,463,748	\$697,853
Feb 16	849.60	818.20	95.00	110.00	3.80	4.44	118,200	120,600	101,392	113,311	12,140	\$620,631	\$544,731	\$295,507
Mar 16	1,065.10	1,012.90	158.40	145.20	3.83	4.49	134,300	155,500	120,394	117,455	-7,817	\$493,482	\$0	\$47,462
Apr 16	1,341.70	1,422.60	253.10	339.90	3.85	4.71	140,800	169,700	140,578	119,364	28,384	\$1,174,107	\$217,107	\$432,884
May 16	1,271.50	1,400.90	694.10	1,056.30	4.18	5.33	222,300	272,000	197,442	247,263	10,109	\$0	\$0	\$246,978
Jun 16	301.50	464.80	1,105.70	1,388.30	4.74	5.82	205,800	269,500	242,477	316,354	20,861	\$172,095	\$0	\$606,406
Jul 16			521.10	290.10	4.45	5.35	233,700	268,000	255,437	246,991	40,377	\$934,923	\$0	\$1,386,263
Aug 16			188.60	118.60	4.00	4.80	205,200	224,400	203,695	177,520	42,428	\$196,680	\$0	\$1,180,209
Sep 16														
Total							1,645,700	1,866,000	1,643,098	1,724,485	388,361	\$12,654,660	\$9,801,480	\$10,396,761

Actual generation as a percentage of average: 105.0%

Cost per MWh: \$26.77

Lake/Reservoir Content

The overall reservoir content at the end of August was 120 percent of average.

Weather and Other Conditions

Drought conditions have returned to some parts of the Bighorn and Platte River basins with a more extensive area considered abnormally dry. The year to date reservoir inflow is above average across the Loveland Area Projects (LAP) area and well above average in the North Platte River basin. The LAP reservoir storage at the end of August was above average in all three basins but, overall, slightly less than at the end of last August. The latest National Weather Service forecast indicates October through December temperatures are more likely to be above normal and precipitation is just as likely to be above as below normal in the LAP area.

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

Sierra Nevada Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
	Oct 15			316.00	204.00	5.29	2.34	91,000	136,000	163,000	128,332	56,293	\$1,820,820	\$1,820,820
Nov 15	3.57	2.00	386.00	210.00	5.24	2.21	79,000	99,000	104,000	38,675	57,583	\$1,727,548	\$1,727,548	\$1,877,190
Dec 15	9.43	10.00	1,017.00	553.00	5.76	2.47	64,000	54,000	143,000	47,723	61,018	\$1,803,740	\$1,803,740	\$1,949,075
Jan 16	17.70	20.00	1,032.00	1,653.00	6.18	3.96	15,000	0	163,000	6,638	63,436	\$1,393,030	\$1,393,030	\$1,846,712
Feb 16	24.71	21.00	1,017.00	1,084.00	6.72	4.69	15,000	5,000	195,000	19,879	57,780	\$1,309,570	\$1,309,570	\$1,615,090
Mar 16	27.91	24.00	1,455.00	2,955.00	7.45	6.62	30,000	75,000	207,000	162,709	47,458	\$1,399,243	\$1,399,243	\$1,560,088
Apr 16	22.03	13.00	1,272.00	1,208.00	7.86	7.18	135,000	230,000	288,000	192,803	43,336	\$659,936	\$659,936	\$889,087
May 16	25.00	2.00	1,210.00	921.00	7.83	7.01	245,000	295,000	442,000	322,579	37,097	\$665,440	\$665,440	\$780,525
Jun 16			749.00	537.00	7.38	6.54	280,000	320,000	440,000	353,394	39,345	\$659,936	\$659,936	\$800,734
Jul 16			432.00	353.00	6.57	5.76	290,000	315,000	524,000	422,571	37,314	\$1,112,590	\$1,112,590	\$1,114,377
Aug 16			344.00	308.00	5.91	5.08	210,000	240,000	402,000	333,359	45,888	\$1,150,782	\$1,150,782	\$1,175,100
Sep 16														
Total							1,454,000	1,769,000	3,071,000	2,028,662	546,549	\$13,702,635	\$13,702,635	\$15,479,970

Actual generation as a percentage of average: 66.1%

Cost per MWh: \$28.32

Lake/Reservoir Content

As of August 31, accumulated inflow for the water year was 116 percent of 15-year average for Trinity, 105 percent for Shasta, 112 percent for Folsom, and 105 percent for New Melones. Reservoir storage as of the same date was 69 percent of the 15-year average for Trinity, 121 percent for Shasta, 69 percent for Folsom, and 43 percent for New Melones.

Weather and Other Conditions

As of August 31, cumulative precipitation of the Northern Sierra Eight Station Index was at 115 percent of average for the date, and 116 percent of the water year average. The May 1, 2016 forecast for the 50 percent exceedence case is the basis for the official year type declaration, which is "below normal" for this water year.

Note: The Sierra Nevada Region's (SNR) average projection of generation is taken from the latest modeling using the update to its customers' "Green Book." SNR does not project purchase power expenses for dry conditions, and its most probable projected expenses are based upon term purchases of 70-75 percent of projected power needs with the difference being left to day-ahead markets after project pumping and generation are scheduled.



Upper Great Plains Region

	Snowpack (Inches in Snow Water Equivalent)		Lake/Reservoir Inflow (Thousand Acre-Feet)		Lake/Reservoir Content (Million Acre-Feet)		Generation (MWh)				Purchase Power (MWh)	Purchase Power Expenses (Dollars)		
	Median	Actual	Average	Actual	Average	Actual	Projected Dry	Most Probable	Average	Actual	Actual	Projected Dry	Most Probable	Actual
Oct 15	1.20	0.40	8,092.00	5,998.12	55.94	59.52	669,483	656,625	956,575	698,434	58,791	\$2,558,807	\$2,815,967	\$1,186,804
Nov 15	3.80	2.90	7,411.00	5,642.70	54.83	58.73	691,201	630,517	915,920	609,735	173,486	\$3,840,879	\$5,054,569	\$2,903,732
Dec 15	7.10	7.00	6,468.00	5,109.00	54.23	58.41	597,319	592,071	697,821	552,784	327,646	\$7,428,458	\$7,533,428	\$5,385,348
Jan 16	10.30	9.50	6,658.00	6,634.00	53.94	57.73	851,947	847,187	751,422	779,510	143,984	\$2,211,235	\$2,306,445	\$2,913,693
Feb 16	12.90	11.50	6,291.00	6,046.50	54.25	58.30	632,165	631,703	668,307	600,518	246,550	\$5,365,845	\$5,375,085	\$3,921,964
Mar 16	15.80	15.00	8,226.00	5,636.40	56.02	58.46	712,756	645,556	738,328	588,619	180,582	\$2,507,548	\$3,851,538	\$1,939,287
Apr 16	15.10	11.00	8,061.00	6,579.20	56.91	59.23	718,242	648,989	829,810	613,882	153,952	\$1,502,829	\$2,887,889	\$1,986,054
May 16	6.60	4.30	9,699.00	6,872.50	58.18	61.10	617,617	664,640	925,440	572,386	141,305	\$3,150,160	\$2,209,700	\$2,309,494
Jun 16	0.60	0.00	11,819.00	7,634.60	60.38	61.91	693,071	649,697	911,880	765,908	40,628	\$2,485,887	\$3,353,377	\$746,139
Jul 16			10,827.00	7,228.20	60.36	61.13	852,371	843,365	1,009,617	857,805	27,788	\$2,067,561	\$2,247,681	\$403,114
Aug 16			9,829.00	6,943.40	58.77	59.69	890,035	878,803	1,035,769	865,454	*	\$83,271	\$307,901	*
Sep 16														
Total							7,926,204	7,689,149	9,440,889	7,505,035	1,494,712	\$33,202,478	\$37,943,578	\$23,695,629

Actual generation as a percentage of average: 79.5%

Cost per MWh: \$15.85

Lake/Reservoir Content

As of September 15, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 80.4 percent and 88.6 percent full, respectively.

Weather and Other Conditions

Dry conditions continued across the plains this summer, which caused below-average inflows again in August. The August actual system runoff was 76 percent of normal.

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