

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 17	1.30	0.70	514.42	449.00	15.01	14.53	248,012	389,938	382,430	430,186	28,274	\$3,545,634	\$1,146,330	\$583,418
Nov 17	4.80	2.60	474.23	387.00	14.91	14.33	230,952	370,900	388,155	385,035	64,772	\$3,484,280	\$1,392,536	\$1,497,035
Dec 17	8.10	4.60	362.96	299.00	14.86	14.07	270,310	499,967	437,962	492,421	19,156	\$2,604,643	\$472,737	\$508,199
Jan 18	11.50	7.00	361.45	262.00	14.98	13.67	355,138	521,095	457,394	518,559	7,891	\$1,995,079	\$156,142	\$213,132
Feb 18	15.10	11.00	392.01	269.00	15.99	13.35	265,647	428,060	390,580	423,937	38,938	\$1,135,713	\$1,388,952	\$1,169,613
Mar 18														
Apr 18														
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total							1,370,059	2,209,960	2,056,521	2,250,138	159,031	\$12,765,350	\$4,556,697	\$3,971,397

Actual generation as a percentage of average: 109.4%

Cost per MWh: \$24.97

Lake/Reservoir Levels

Lake Powell's elevation was 3,616 feet at the end of February, about 84 feet below the maximum reservoir level and about 126 feet above the minimum generation level. The storage volume for Lake Powell was 13.35 million acre-feet at the end of February, which is about 55 percent of capacity.

Weather and Other Conditions

Current inflow forecasts into Lake Powell continue to be dry, with April – July inflows currently forecasted at 43 percent of average.

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 17	1.30	0.70	59.90	45.00	20.15	12.26	321,455	321,455	378,173	327,168	622	\$0	\$0	\$15,967
Nov 17	4.80	2.60	53.75	40.00	20.20	12.29	373,825	373,825	363,506	373,021	6,160	\$96,950	\$96,950	\$192,517
Dec 17	8.10	4.60	72.83	44.00	20.32	12.30	271,905	271,905	371,404	316,487	10,262	\$246,131	\$246,131	\$399,541
Jan 18	11.50	7.00	93.50	76.00	20.48	12.82	239,355	239,355	394,030	242,881	33,068	\$1,160,420	\$1,160,420	\$1,228,802
Feb 18	15.10	11.00	109.23	62.00	20.51	13.00	369,850	369,850	389,769	366,664	7,164	\$0	\$0	\$242,860
Mar 18														
Apr 18														
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total							1,576,390	1,576,390	1,896,882	1,626,220	57,276	\$1,503,501	\$1,503,501	\$2,079,687

Actual generation as a percentage of average: 85.7%

Cost per MWh: \$36.31

Lake/Reservoir Levels

Lake Mead's elevation was 1,088 feet at the end of February, about 131 feet below the full storage level and about 138 feet above the minimum generation level. Lake Mead reached an annual peak elevation of 1,088 feet in February and is projected to drop to a minimum elevation of 1,076 feet in July.

Weather and Other Conditions

The Desert Southwest Region's (DSWR) hydrology is mostly dependent on the Colorado River Basin snowpack and precipitation above Lake Powell. The precipitation was 68 percent of average at the end of February. The total side inflow into Lake Mead for water year 2018 is projected to be 710 thousand acre-feet, or 55 percent of the normal annual amount.

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

Rocky Mountain Region

	Snowpack (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 17	0.00	1.00	135.50	239.20	3.92	4.72	94,856	104,129	92,921	102,835	73,854	\$1,612,050	\$1,456,780
Nov 17	3.70	3.40	118.80	205.90	3.88	4.72	63,717	94,184	63,235	90,440	69,165	\$980,138	\$1,865,825	\$1,670,392
Dec 17	12.00	12.40	98.00	106.40	3.83	4.68	96,244	104,950	97,078	93,454	79,107	\$614,713	\$1,458,113	\$1,944,026
Jan 18	19.70	19.00	96.70	131.40	3.80	4.62	127,240	115,455	92,940	105,200	60,470	\$1,013,650	\$628,963	\$1,746,555
Feb 18	28.40	27.80	95.30	112.90	3.70	4.53	115,792	110,586	85,852	136,005	10,780	\$0	\$101,250	\$245,029
Mar 18														
Apr 18														
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total							497,849	529,303	432,025	527,934	293,376	\$4,220,551	\$5,510,930	\$7,306,857

Actual generation as a percentage of average: 122.2%

Cost per MWh: \$24.91

Lake/Reservoir Content

Reservoir inflows have been above average so far this water year for all of the Loveland Area Projects (LAP) area. At the end of February, inflows were 118 percent of average.

Weather and Other Conditions

Hydrologic conditions for the LAP area can vary from one river basin and watershed to another. The snowpack ranged from just below average in the Colorado River Basin to well above average in the Bighorn River Basin. The latest National Weather Service forecast indicates April, May, and June temperatures will most likely be at or below average in northwestern Wyoming and will likely be above average in southeast Wyoming and Colorado. The same forecast indicates that southern half of Colorado is in a drought, but the northern half of Colorado and all of Wyoming and Montana remain drought free. Spring generation in the Colorado River Basin is forecasted to be average due to a high volume of water stored in Lake Granby, and spring generation in the Bighorn River and North Platte River Basins will also be above average.

Note: The Rocky Mountain Region's (RMR) most recent reported actual generation and purchase power data are provisional values. RMR previously reported snowpack data as a total for all reservoirs throughout LAP, but is now reporting that data as an average value.



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 17		339.00	339.00	5.38	7.49	261,000	171,000	163,000	208,470	46,751	\$519,480	\$519,480	\$1,005,159	
Nov 17		416.00	636.00	5.36	7.60	154,000	149,000	104,000	118,897	49,097	\$499,500	\$499,500	\$1,140,296	
Dec 17	11.54	3.00	975.00	696.00	5.77	7.48	99,000	104,000	143,000	105,005	54,113	\$499,500	\$499,500	\$1,171,386
Jan 18	16.67	5.00	1,097.00	478.00	6.15	7.88	118,000	423,000	163,000	65,639	57,687	\$528,840	\$528,840	\$1,356,822
Feb 18	30.00	6.00	1,310.00	424.00	6.72	7.65	130,000	220,000	195,000	99,148	47,468	\$488,160	\$488,160	\$924,010
Mar 18														
Apr 18														
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total						762,000	1,067,000	768,000	597,158	255,116	\$2,535,480	\$2,535,480	\$5,597,673	

Actual generation as a percentage of average: 77.8%

Cost per MWh: \$21.94

Lake/Reservoir Content

As of February 28, accumulated inflow for the water year was 44 percent of the 15-year average for Trinity, 60 percent for Shasta, 72 percent for Folsom, and 71 percent for New Melones. Reservoir storage as of the same date was 111 percent of the 15-year average for Trinity, 108 percent for Shasta, 106 percent for Folsom, and 132 percent for New Melones.

Weather and Other Conditions

As of February 28, cumulative precipitation of the Northern Sierra Eight Station Index was at 57 percent of average for the date. February precipitation was only 11 percent of average, but March had significant storm activity which resulted in increased precipitation.

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

Upper Great Plains Region

	Snowpack (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 17	1.20	1.20	8,050.00	6,477.30	56.01	59.78	805,326	796,806	790,075	760,352	41,277	\$688,399	\$743,287	\$336,335
Nov 17	3.80	4.50	7,375.00	6,901.97	54.92	58.89	838,063	817,624	729,890	773,047	58,278	\$1,071,080	\$1,147,712	\$1,091,157
Dec 17	7.10	8.50	6,442.00	6,415.93	54.32	58.03	754,340	820,267	601,300	758,602	130,466	\$3,815,497	\$2,930,323	\$2,789,741
Jan 18	10.30	11.90	6,641.00	7,574.06	54.18	57.80	915,959	912,918	689,660	865,517	108,666	\$2,288,588	\$2,334,615	\$3,179,563
Feb 18	13.10	16.80	6,281.00	5,985.82	54.50	57.68	726,656	720,012	587,560	686,877	*	\$2,594,949	\$2,706,151	*
Mar 18														
Apr 18														
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total							4,040,344	4,067,626	3,398,485	3,844,395	338,687	\$10,458,512	\$9,862,089	\$7,396,796

Actual generation as a percentage of average: 113.1%

Cost per MWh: \$21.84

Lake/Reservoir Content

As of March 18, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 72.3 percent and 77.8 percent full, respectively.

Weather and Other Conditions

The February runoff was 103 percent of normal. Runoff was above average in the Fort Peck, Garrison, Fort Randall, Gavins Point, and Oahe reaches. Snowpack reports show 130 percent of average above Fort Peck and 136 percent of average in the Fort Peck to Garrison reach. The U.S. Drought Monitor shows that much of the upper Missouri River Basin continues to be impacted by drought, with severe (D2) drought conditions present in northeastern Montana and western South Dakota while abnormally dry (D0) or moderate (D1) drought conditions remain over the broader region.

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