

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	423,720	38,938	\$1,135,713	\$1,388,952	\$1,169,613
Mar 18	18.90	14.10	666.27	332.00	16.77	12.96	272,465	433,495	390,170	452,487	14,674	\$1,523,814	\$1,337,054	\$343,030
Apr 18	19.40	11.30	1,057.14	382.00	16.74	12.67	399,512	420,896	397,861	436,264	2,238	\$190,955	\$190,955	\$29,228
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total							2,042,037	3,064,352	2,844,551	3,138,672	175,943	\$14,480,119	\$6,084,707	\$4,343,655

Actual generation as a percentage of average: 110.3%

Cost per MWh: \$24.69

Lake/Reservoir Levels

Lake Powell's elevation was 3,609 feet at the end of April, about 91 feet below the maximum reservoir level and about 119 feet above the minimum generation level. The storage volume for Lake Powell was 12.67 million acre-feet at the end of April, which is about 52 percent of capacity.

Weather and Other Conditions

Hydrologic conditions in the Upper Colorado River Basin continue to be very dry, and Lake Powell April – July inflows are currently forecasted to be 42 percent of average. Consequently, Lake Powell elevation is forecasted to be 30 feet lower at the end of water year 2018 than what was observed at the end of water year 2017.

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	18.90	14.10	102.00	71.00	20.31	12.95	567,350	456,815	530,595	461,758	15,615	\$101,634	\$538,050	\$494,215
Apr 18	19.40	11.30	83.98	44.00	20.14	12.63	561,970	561,970	571,411	556,605	778	\$25,798	\$0	\$25,798
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total							2,705,710	2,595,175	2,998,888	2,644,583	73,669	\$1,630,932	\$2,041,551	\$2,599,700

Actual generation as a percentage of average: 88.2%

Cost per MWh: \$35.29

Lake/Reservoir Levels

Lake Mead's elevation was 1,084 feet at the end of April, about 135 feet below the full storage level and about 134 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 1,077 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 71 percent of average at the end of April. The total side inflow into Lake Mead for water year 2018 is projected to be 720 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	69,508	\$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	9,637	\$0	\$101,250	\$422,260
Mar 18	35.80	35.80	158.80	165.20	3.82	4.47	140,516	156,327	121,269	183,257	-1,814	\$0	\$0	\$22,659
Apr 18	43.60	43.80	250.80	258.70	3.83	4.32	150,610	201,824	163,503	221,709	2,803	\$1,007,950	\$0	\$52,163
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total							788,975	887,454	716,797	932,900	288,876	\$5,228,501	\$5,510,930	\$7,498,952

Actual generation as a percentage of average: 130.1%

Cost per MWh: \$25.96

Lake/Reservoir Content

Reservoir inflows have been at or above average so far this water year for all of the Loveland Area Projects (LAP) area. At the end of April, inflows were 103 percent of average.

Weather and Other Conditions

Hydrologic conditions for the LAP area can vary from one river basin and watershed to another. Due to storage, LAP is currently free of drought from a water perspective. The snowpack ranged from below average in the Colorado River Basin to well above average in the Bighorn River Basin. The latest National Weather Service forecast indicates summer temperatures will most likely be at or above average in Colorado and the southern half of Wyoming, and at or near normal in the northern half of Wyoming. For LAP as a whole, June generation is expected to be above the marketed amount.

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	27.27	15.00	1,570.00	1,417.00	7.49	8.56	105,000	180,000	207,000	68,648	55,294	\$549,180	\$549,180	\$1,079,804
Apr 18	21.88	7.00	1,377.00	1,405.00	7.90	9.05	406,000	366,000	288,000	218,682	39,877	\$466,000	\$466,000	\$803,475
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total							1,273,000	1,613,000	1,263,000	884,487	350,287	\$3,550,660	\$3,550,660	\$7,480,952

Actual generation as a percentage of average: 70.0%

Cost per MWh: \$21.36

Lake/Reservoir Content

As of April 30, accumulated inflow for the water year was 53 percent of the 15-year average for Trinity, 67 percent for Shasta, 102 percent for Folsom, and 90 percent for New Melones. Reservoir storage as of the same date was 103 percent of the 15-year average for Trinity, 111 percent for Shasta, 118 percent for Folsom, and 136 percent for New Melones.

Weather and Other Conditions

As of April 30, cumulative precipitation of the Northern Sierra Eight Station Index was at 82 percent of average for the date. April had 4.75 inches of precipitation, or 122 percent of the average amount. The Sacramento River Index forecast for the 50 percent exceedence case is "below normal" and the 90 percent exceedence case is "dry."

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	175,111	\$2,594,949	\$2,706,151	\$3,756,821
Mar 18	15.80	20.10	8,151.00	8,984.98	56.20	59.57	927,763	857,849	688,351	771,423	79,088	\$915,562	\$1,277,744	\$1,434,437
Apr 18	14.90	20.20	8,041.00	12,116.97	57.06	61.91	1,011,886	1,020,174	782,435	939,178	*	\$174,097	\$166,640	*
May 18														
Jun 18														
Jul 18														
Aug 18														
Sep 18														
Total							5,979,992	5,945,648	4,869,272	5,554,996	592,886	\$11,548,172	\$11,306,473	\$12,588,054

Actual generation as a percentage of average: 114.1%

Cost per MWh: \$21.23

Lake/Reservoir Content

As of May 15, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 78.7 percent and 74.9 percent full, respectively.

Weather and Other Conditions

The April runoff was 182 percent of normal. Runoff was above average in the Fort Peck, Garrison, Fort Randall, and Gavins Point reaches, and below average at Oahe. Snowpack reports indicate 123 percent of average above Fort Peck and 120 percent of average in the Fort Peck to Garrison reach. The U.S. Drought Monitor shows that some of the upper Missouri River Basin continues to be impacted by drought, with moderate (D1) drought conditions in northeastern Montana and western South Dakota and abnormally dry (D0) conditions in much of North Dakota.

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.