

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 18	1.30	1.50	514.42	351.00	15.01	10.86	321,546	322,388	382,430	350,253	85,231	\$2,864,090	\$2,837,493	\$2,445,254
Nov 18	4.80	5.20	474.23	254.00	14.91	10.51	303,372	316,406	388,155	298,876	162,992	\$3,956,202	\$3,856,748	\$5,385,266
Dec 18	8.10	7.60	362.96	228.00	14.86	10.10	355,598	375,353	437,962	376,666	115,368	\$4,457,663	\$5,908,583	\$4,564,811
Jan 19	11.50	12.10	361.45	212.00	14.98	9.63	348,335	396,430	457,394	397,561	104,938	\$4,673,912	\$4,072,956	\$3,614,778
Feb 19	15.10	17.50	392.01	255.00	15.99	9.26	310,650	369,961	390,580	362,157	81,474	\$3,566,014	\$2,230,770	\$3,846,903
Mar 19	18.90	24.50	666.27	624.00	16.77	9.05	330,574	345,266	390,170	369,565	87,114	\$2,714,461	\$86,268	\$2,817,982
Apr 19	19.40	23.40	1,057.14	1,244.00	16.74	9.20	320,609	334,927	397,861	360,975	46,344	\$1,315,218	\$44,534	\$958,598
May 19														
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							2,290,684	2,460,731	2,844,551	2,516,053	683,461	\$23,547,559	\$19,037,353	\$23,633,592

Actual generation as a percentage of average: 88.5%

Cost per MWh: \$34.58

Lake/Reservoir Levels

Lake Powell's elevation was 3,571 feet at the end of April, about 129 feet below the maximum reservoir level and about 81 feet above the minimum generation level. The storage volume for Lake Powell was 9.20 million acre-feet at the end of April, or about 38 percent of capacity.

Weather and Other Conditions

Inflows into Lake Powell are now projected to be 111 percent of average. Consequently, Lake Powell is expected to end water year 2019 with about 1.7 million acre-feet more storage than at the end of water year 2018.



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 18	1.30	1.50	93.71	101.00	20.03	12.01	351,400	351,315	377,868	339,511	11,000	\$308,000	\$400,000	\$409,640
Nov 18	4.80	5.20	54.08	68.00	20.08	12.03	367,050	357,160	363,617	357,474	11,001	\$435,640	\$435,640	\$435,640
Dec 18	8.10	7.60	72.32	52.00	20.21	12.32	247,750	244,540	369,749	233,300	30,582	\$1,258,177	\$1,258,177	\$1,549,896
Jan 19	11.50	12.10	93.81	105.00	20.37	12.72	265,650	248,555	392,324	248,683	24,471	\$844,099	\$844,099	\$1,240,190
Feb 19	15.10	17.50	109.59	127.00	20.40	12.96	389,500	330,335	389,146	327,946	25,248	\$744,930	\$744,930	\$1,737,820
Mar 19	18.90	24.50	104.25	202.00	20.21	13.14	532,700	418,160	529,401	412,674	31,605	\$1,262,021	\$1,262,021	\$1,404,210
Apr 19	19.40	23.40	84.70	117.00	20.03	13.02	528,100	515,415	570,854	502,066	8,134	\$349,070	\$349,070	\$216,711
May 19														
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							2,682,150	2,465,480	2,992,959	2,421,653	142,041	\$5,201,937	\$5,293,937	\$6,994,107

Actual generation as a percentage of average: 80.9%

Cost per MWh: \$49.24

Lake/Reservoir Levels

Lake Mead's elevation was 1,089 feet at the end of April, about 131 feet below the full storage level and about 139 feet above the minimum generation level. Lake Mead's elevation peaked at 1,090 feet in March and is projected to drop to a minimum elevation of 1,083 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 is currently 119 percent of average and the snowpack is 193 percent of median.

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 18	0.00	0.00	145.00	123.30	3.87	4.16	126,310	140,345	96,983	105,818	70,588	\$1,010,520	\$617,540	\$2,030,037
Nov 18	3.80	3.00	121.90	114.40	3.83	4.15	53,631	59,591	109,895	64,731	81,577	\$3,039,932	\$2,873,052	\$2,144,120
Dec 18	11.70	14.60	100.60	98.60	3.79	4.10	88,802	98,669	123,353	93,787	68,757	\$2,472,344	\$2,196,068	\$2,910
Jan 19	28.20	29.90	97.10	98.10	3.77	4.23	114,996	127,774	121,795	122,360	38,467	\$1,612,912	\$1,255,128	\$696,522
Feb 19	39.40	35.90	95.50	92.10	3.70	4.01	108,334	120,372	111,291	112,571	24,211	\$802,648	\$465,584	\$1,002,471
Mar 19	44.90	52.30	158.60	149.70	3.84	4.03	110,289	122,544	128,512	107,241	41,843	\$1,092,308	\$749,168	\$1,353,647
Apr 19	43.40	47.10	246.70	344.50	3.88	4.21	159,352	177,058	144,007	178,116	2,955	\$477,344	\$0	\$64,833
May 19														
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							761,714	846,353	835,835	784,624	328,398	\$10,508,008	\$8,156,540	\$7,294,541

Actual generation as a percentage of average: 93.9%

Cost per MWh: \$22.21

Lake/Reservoir Content

Reservoir inflows were about average until recently when they increased due to snowpack melt.

Weather and Other Conditions

Hydrologic conditions for the LAP area can vary from one river basin and watershed to another. The snowpack is above average in the Colorado River, North Platte River, and Bighorn River Basins due to some significant storms. The latest National Weather Service forecast indicates June through August temperatures will have an equal chance of being below or above average in Wyoming and Colorado. The forecast for precipitation indicates June through August will be above average for all of the LAP area. Generation is forecasted to remain just above average for the beginning of summer and average the second half of summer.

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



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 18	N/A	N/A	337.00	267.00	5.33	5.81	66,000	71,000	163,000	122,451	54,606	\$519,480	\$519,480
Nov 18	26.67	4.00	413.00	329.00	5.30	5.72	14,000	0	104,000	73,243	50,948	\$499,500	\$499,500	\$1,039,392
Dec 18	28.00	7.00	934.00	489.00	5.69	5.83	39,000	0	143,000	5,086	64,085	\$499,500	\$499,500	\$1,342,138
Jan 19	28.69	17.50	1,120.00	1,349.00	6.11	6.89	0	0	163,000	0	66,444	\$528,840	\$528,840	\$987,373
Feb 19	27.82	37.00	1,321.00	2,148.00	6.67	8.22	0	9,000	195,000	37,424	58,503	\$488,160	\$488,160	\$761,853
Mar 19	28.57	46.00	1,646.00	2,592.00	7.28	8.62	208,000	138,000	207,000	536,195	15,116	\$488,160	\$488,160	\$369,408
Apr 19	27.43	31.00	1,481.00	2,637.00	7.96	9.27	353,000	423,000	288,000	585,381	12,324	\$466,000	\$466,000	\$369,408
May 19														
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							680,000	641,000	1,263,000	1,359,781	322,026	\$3,489,640	\$3,489,640	\$6,006,042

Actual generation as a percentage of average: 107.7%

Cost per MWh: \$18.65

Lake/Reservoir Content

As of April 30, reservoir storage for the water year was 120 percent of the 15-year average for Trinity, 111 percent for Shasta, 118 percent for Folsom, and 124 percent for New Melones. Accumulated inflow for the same date was 130 percent of the 15-year average for Trinity, 138 percent for Shasta, 133 percent for Folsom, and 132 percent for New Melones.

Weather and Other Conditions

April precipitation was 98 percent of its monthly average, but relatively high temperatures resulted in more snowmelt and greater reservoir releases. The snowpack in California is presumed to reach its peak on April 1, and as of April 30 the snowpack was at 113 percent of the average peak amount. The Sacramento River Index forecast for 50 percent exceedence is "wet" and the 90 percent exceedence is also "wet."

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



Upper Great Plains Region

	Snowpack (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 18	1.20	0.60	7,972.00	12,743.92	56.14	61.29	1,325,941	1,406,667	756,334	1,248,178	531	\$0	\$0	\$6,478
Nov 18	3.80	3.49	7,334.00	12,156.48	55.06	58.80	1,209,552	1,316,760	709,613	1,173,480	2,149	\$18,782	\$3,900	\$83,100
Dec 18	7.10	5.70	6,422.00	7,619.10	54.46	58.43	915,072	894,801	630,628	818,157	181,367	\$1,707,266	\$1,753,567	\$4,322,567
Jan 19	10.30	8.70	6,641.00	7,118.20	54.18	57.59	947,484	931,354	726,656	854,939	109,232	\$1,956,248	\$2,094,681	\$2,805,533
Feb 19	13.10	14.10	6,281.00	6,737.50	54.50	57.52	788,683	777,919	604,543	756,814	148,198	\$2,308,176	\$2,441,763	\$4,392,721
Mar 19	15.80	15.30	8,151.00	12,477.60	56.20	64.04	789,534	706,822	702,744	510,715	272,143	\$2,596,762	\$4,094,500	\$8,469,368
Apr 19	14.90	15.00	8,041.00	13,424.98	57.06	66.22	1,062,188	1,010,132	848,551	82,932	*	\$132,095	\$170,228	*
May 19														
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							7,038,454	7,044,455	4,979,069	5,445,215	713,620	\$8,719,328	\$10,558,640	\$20,079,767

Actual generation as a percentage of average: 109.4%

Cost per MWh: \$28.14

Lake/Reservoir Content

As of May 19, the active conservation pools for the Canyon Ferry and Yellowtail Dams were 77.5 percent and 76.6 percent full, respectively.

Weather and Other Conditions

The April runoff was 266 percent of normal. Snowpack reports show 93 percent of average above Fort Peck and 97 percent of average in the Fort Peck to Garrison reach. The U.S. Drought Monitor shows that none of the upper Missouri River Basin is impacted by drought. Every state in the Midwest received above-average precipitation during December through February, leaving the area with overall wet conditions. The three-month weather forecast indicates below-normal temperatures and above-normal precipitation.

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

