

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	7.90	20.80	2,337.68	2,511.00	16.30	10.30	353,950	504,794	475,860	451,987	9,376	\$1,241,595	\$6,062	\$165,993
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							2,644,635	2,965,525	3,320,411	2,968,040	692,837	\$24,789,154	\$19,043,415	\$23,799,585

Actual generation as a percentage of average: 89.4%

Cost per MWh: \$34.35

Lake/Reservoir Levels

Lake Powell's elevation was 3,585 feet at the end of May, about 115 feet below the maximum reservoir level and about 95 feet above the minimum generation level. The storage volume for Lake Powell was 10.3 million acre-feet at the end of May, or about 42 percent of capacity.

Weather and Other Conditions

Inflows into Lake Powell are now projected to be 125 percent of average. Consequently, Lake Powell is expected to end water year 2019 with about 2.8 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	7.90	20.80	59.61	107.00	20.13	12.86	570,400	542,410	571,052	542,012	7,054	\$622,861	\$622,861	\$229,480
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							3,252,550	3,007,890	3,564,011	2,963,665	149,095	\$5,824,798	\$5,916,798	\$7,223,587

Actual generation as a percentage of average: 83.2%

Cost per MWh: \$48.45

Lake/Reservoir Levels

Lake Mead's elevation was 1,086 feet at the end of May, about 133 feet below the full storage level and about 136 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 124 percent of average and the snowpack is negligible.

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	10,758	\$802,648	\$465,584	\$273,355
Mar 19	35.90	39.40	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	44.90	52.30	246.70	344.50	3.88	4.21	159,352	177,058	144,007	178,116	3,408	\$477,344	\$0	\$84,014
May 19	43.40	47.10	737.90	674.70	4.42	5.10	231,213	256,904	196,456	216,137	110	\$0	\$0	\$1,410
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							992,927	1,103,257	1,032,291	1,000,761	315,508	\$10,508,008	\$8,156,540	\$6,586,016

Actual generation as a percentage of average: 96.9%

Cost per MWh: \$20.87

Lake/Reservoir Content

Reservoir inflows have been average so far until May we have seen a jump up to 140% of average inflows, and now for June we are back down to average for all of LAP's reservoirs.

Weather and Other Conditions

Hydrologic conditions for the LAP area can vary from one river basin and watershed to another. The snowpack is has come down quite a bit, with some melting still occurring in July. The latest National Weather Service forecast indicates July through September temperatures are more likely to be normal and the precipitation is likely to be normal in the LAP area. Forecasts for summer generation in the Colorado River Basin and North Platte Basin is average. July generation in the Big Horn Basin will be slightly above average due to inflows from Boysen and Buffalo Bill run off still melting from cool spring.

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	\$1,136,470
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	26.15	17.00	1,305.00	1,933.00	7.99	9.85	511,000	501,000	442,000	388,517	29,266	\$484,640	\$484,640	\$399,176
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							1,191,000	1,142,000	1,705,000	1,748,298	351,292	\$3,974,280	\$3,974,280	\$6,405,218

Actual generation as a percentage of average: 102.5%

Cost per MWh: \$18.23

Lake/Reservoir Content

As of May 31, reservoir storage for the water year was 129 percent of the 15-year average for Trinity, 119 percent for Shasta, 113 percent for Folsom and 133 percent for New Melones. Accumulated inflow for the same date was 134 percent of the 15-year average for Trinity, 138 percent for Shasta, 136 percent for Folsom and 141 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 May 31st the snowpack was at 65 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	852,932	38,770	\$1,032,790	\$1,044,144	\$1,105,030
May 19	6.30	7.20	9,654.00	16,590.74	58.35	69.02	1,306,290	1,282,994	923,995	1,099,332	*	\$0	\$0	*
Jun 19														
Jul 19														
Aug 19														
Sep 19														
Total							8,344,744	8,327,449	5,903,064	7,314,547	752,390	\$9,620,024	\$11,432,556	\$21,184,797

Actual generation as a percentage of average: 123.9%

Cost per MWh: \$28.16

Lake/Reservoir Content

As of June 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 May runoff was 267 percent of normal. Snowpack reports show 105 percent of average above Fort Peck and 104 percent of average in the Fort Peck to Garrison reach. The U.S. Drought Monitor shows a small northern area of the upper Basin is impacted by abnormally dry conditions. Every state in the Midwest received above-average to much-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.

