



Colorado River Commission of Nevada

Hydrology and Water Use Update

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April 14, 2020





Summary

Lake Powell

- Upper Basin snowpack reached the seasonal average in April.
- Below average precipitation from June to September 2019 has caused dry soil conditions in the Upper Basin.
- Water Year 2020 unregulated inflow is forecasted to be 78% of average.

Lake Mead

- Lower Basin rainstorms in March reduced the releases from Hoover Dam, resulting in Lake Mead's elevation about three feet higher than projected.
- Reclamation has essential staff continuing to operate the reservoirs water releases and hydropower generation.

Nevada Water Supply

- Southern Nevada has 7 years of water supply banked. ¹
- **In 2018, Southern Nevada used 19% less than its annual allocation.**

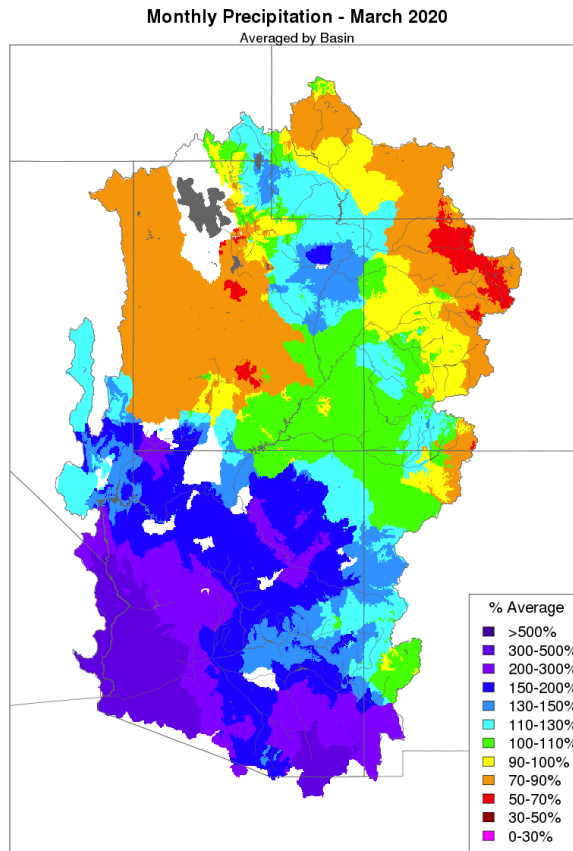
Storage	Elevation (f)	% Capacity	Change since last year
Lake Mead	1,097.5	44%	7.8 ft
Lake Powell	3,600.3	48%	31.6 ft

Data retrieved April 9, 2020

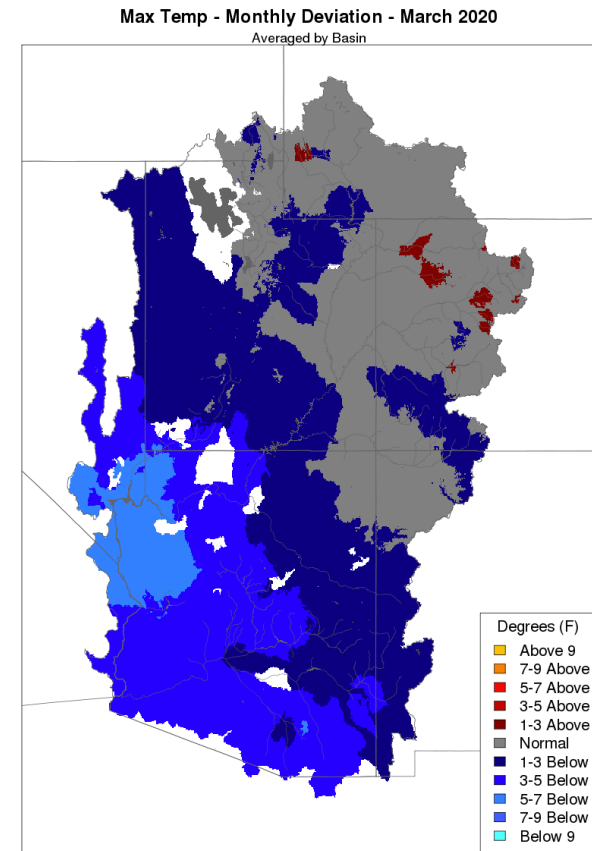
¹ Based on historical Southern Nevada water use.



Precipitation and Temperature



Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov



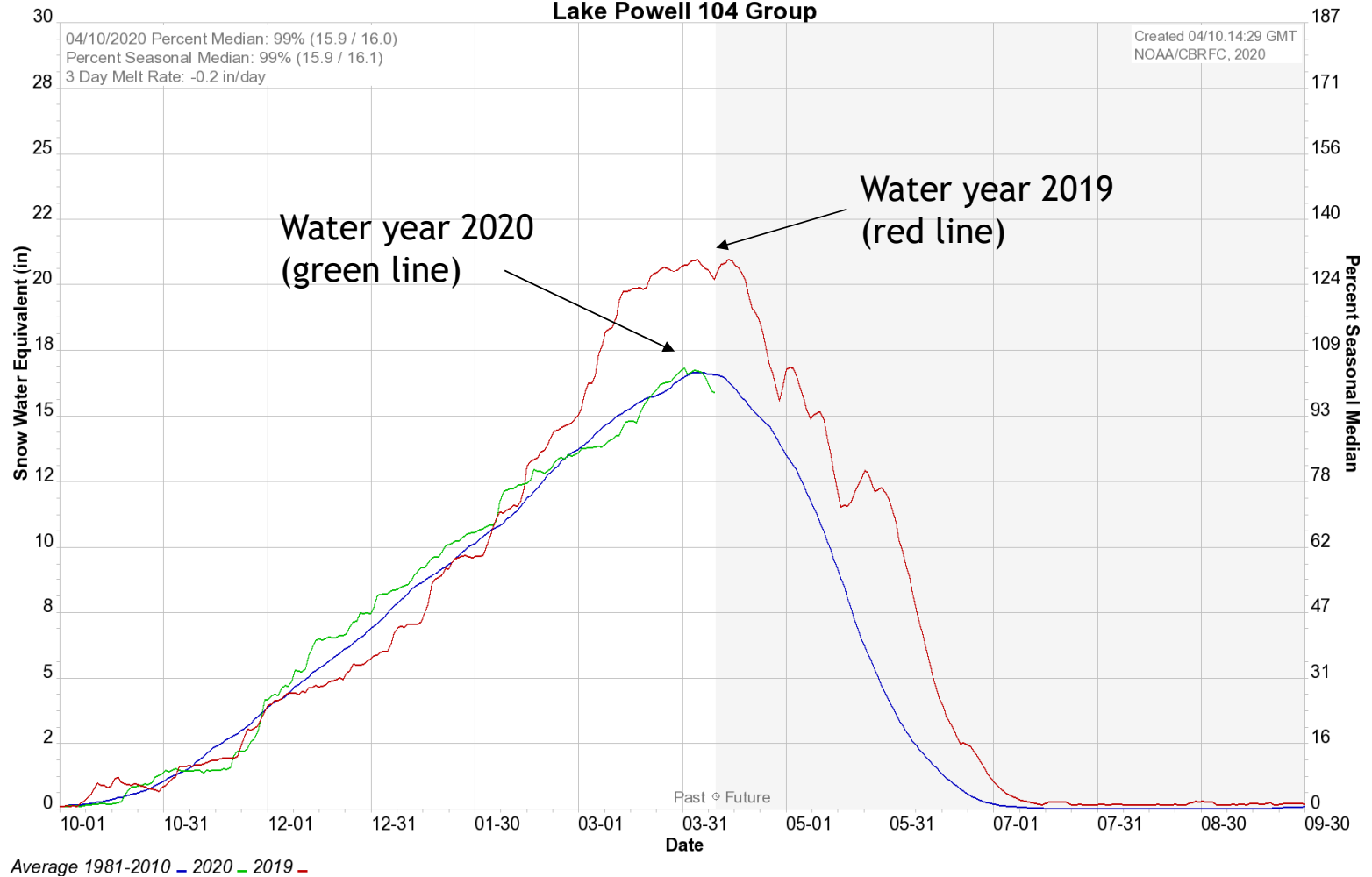
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Above Lake Powell March precipitation: 90%
Above Lake Powell water year 2020 cumulative precipitation: 91%



Upper Basin Snowpack Accumulation

Colorado Basin River Forecast Center
Lake Powell 104 Group





Unregulated Inflow, Current and Projected Reservoir Status

Projected unregulated inflow to Lake Powell	Acre-Feet	% Average
Water Year 2020	8,417,000	78%*
April thru July 2020	5,600,000	78%*

* 2020 forecast reduced due to below average precipitation and dry soil conditions.

Reservoir	Current Elevation	Current Storage Acre-Feet	Current % Capacity	Projected Elevation on 1/1/2021 ¹
Lake Mead	1,097.5	11,510,000	44%	1,082.9
Lake Powell	3,600.3	11,776,000	48%	3,609.9

Data retrieved April 9, 2020

¹ Based on Reclamation's March 2020 24 Month Study Most Probable Inflow.



Water Use In Southern Nevada

Southern Nevada Water Use	2018 Actual Use in Acre-Feet
Nevada Annual Allocation	300,000
Diversion	479,279
Return Flows	235,176
Consumptive Use	244,103
Unused Allocation Available for Banking	55,897 (19%)

Southern Nevada Water Use	Diversions	Return Flows	Consumptive Use
January-February 2020	59,561	41,292	18,269

Banked Water (through end of 2018)	Acre-Feet
Ground Water Recharge in So. Nevada	358,045
Banked in Lake Mead	700,448
Banked in California and Arizona	943,821
Total	2,002,314