

Colorado River Commission of Nevada

Hydrology and Water Use Update

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November 10, 2020





Summary

Lake Powell

- Water year¹ 2020 ended with 54% of average unregulated inflow.
- August through October were dry resulting in next years forecast to be below average.

Lake Mead

- Lake Mead is forecasted to maintain elevations through the end of calendar year 2021.
- Lower Basin conservation programs have conserved roughly 3.5 million af or about 40 addition feet in Lake Mead.

Nevada Water Supply

- Southern Nevada has 9 years of water supply banked. ²
- In 2019, Southern Nevada used 22% less than its annual allocation.

Storage	Elevation (f)	% Capacity	Change since last year
Lake Mead	1,081.8	39%	-0.9 ft
Lake Powell	3,591.6	45%	-21.3 ft

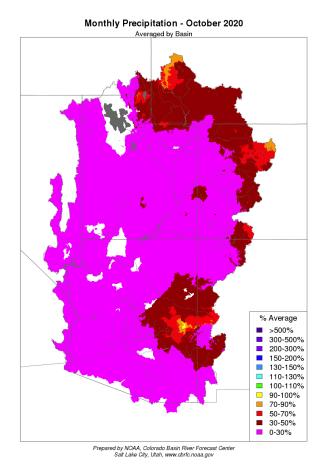
Data retrieved November 2, 2020

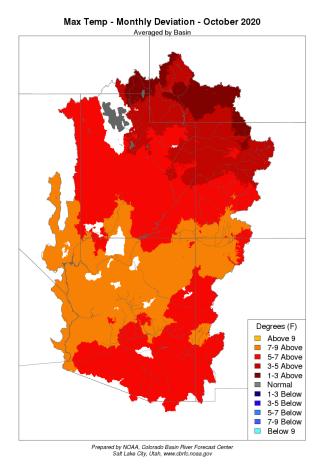
¹ Water year is defined as October through September.

² Based on historical Southern Nevada water use.



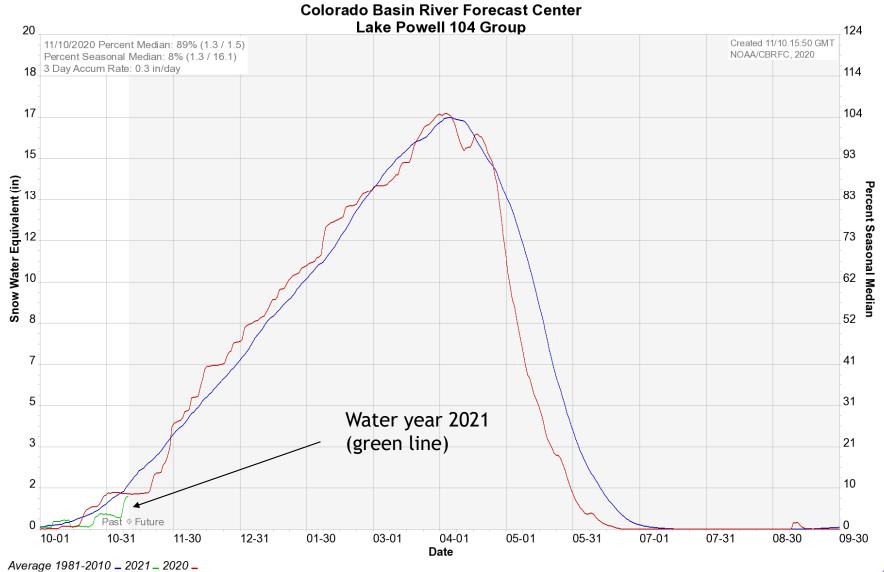
Precipitation and Temperature





Above Lake Powell October precipitation: 34% Above Lake Powell water year 2021 cumulative precipitation: 34%







Unregulated Inflow, Current and Projected Reservoir Status

Projected unregulated inflow to Lake Pow	ell Acre-Feet	% Average
Water Year 2021	6,791,000	63%
April thru July 2021	4,550,000	64%

Reservoir	Current Elevation	Current Storage Acre-Feet	Current % Capacity	Projected Elevation on 1/1/2022 ¹
			' '	
Lake Mead	1,081.8	10,164,000	39%	1,082.1
Lake Powell	3,591.6	10,970,000	45%	3,572.6

Data retrieved November 2, 2020

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



Water Use In Southern Nevada

Southern Nevada Water Use

2019 Actual Use in Acre-Feet

Nevada Annual Allocation	300,000	
Diversion	472,314	
Return Flows	238,318	
Consumptive Use	233,996	
Unused Allocation Available for Banking	66,004 (22%)	

Southern Nevada Water Use	Diversions	Return Flows	Consumptive Use
January-September 2020	382,350	167,856	214,494

Banked Water (through end of 2019)

Acre-Feet

Ground Water Recharge in So. Nevada	358,315
Banked in Lake Mead	785,913
Banked in California and Arizona	944,071
Total	2,088,299