

Colorado River Commission of Nevada

Hydrology and Water Use Update December 10, 2019



Summary

Lake Powell

- Water Year 2020 snowpack accumulation is currently above seasonal average.
- 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 77% of average.

Lake Mead

- In calendar year 2020, Nevada will be required to have a DCP contribution of 8,000 acre feet.
- Lake Mead is projected to decrease about 4 feet by end of next calendar year.

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	1,084.6	40%	6.4 ft
Lake Powell	3,610.8	53%	25.0 ft

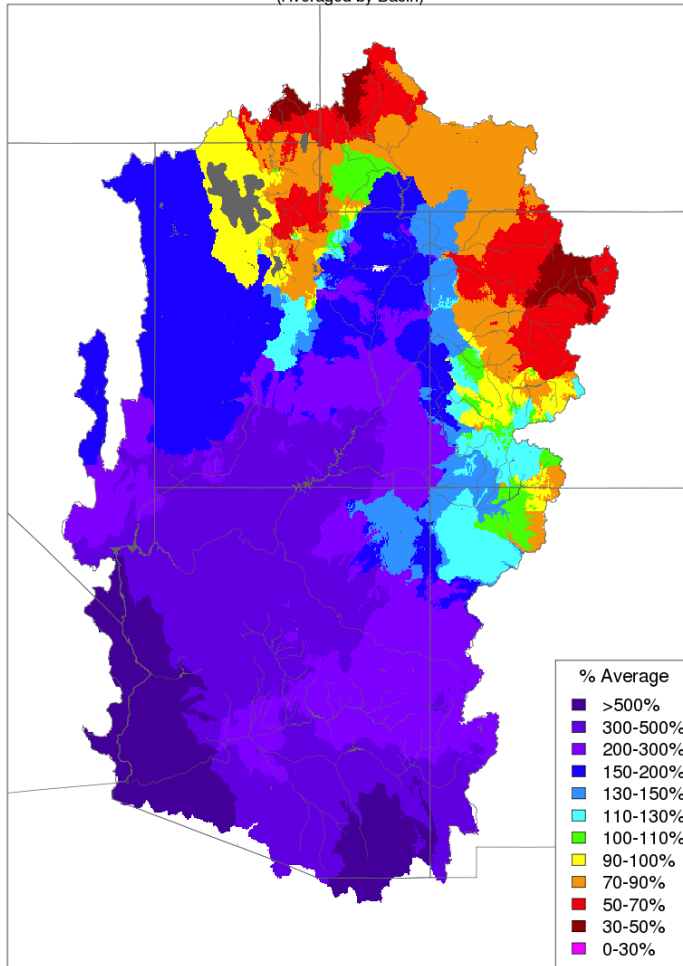
Data retrieved December 5, 2019

¹ Based on historical Southern Nevada water use.

Precipitation and Temperature

Monthly Precipitation - November 2019

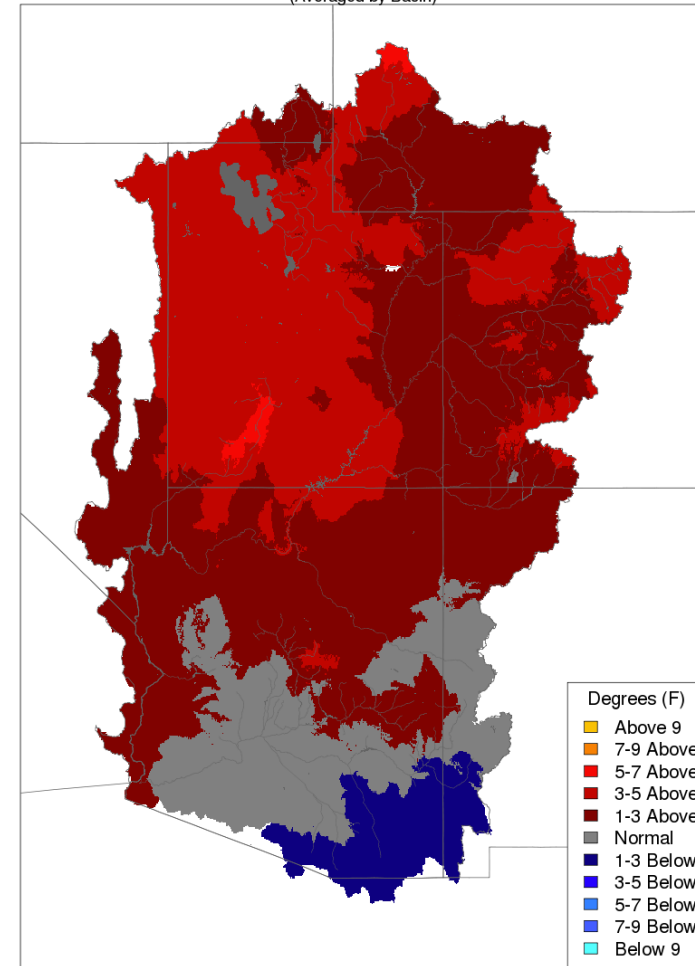
(Averaged by Basin)



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

Max Temp - Monthly Deviation - November 2019

(Averaged by Basin)

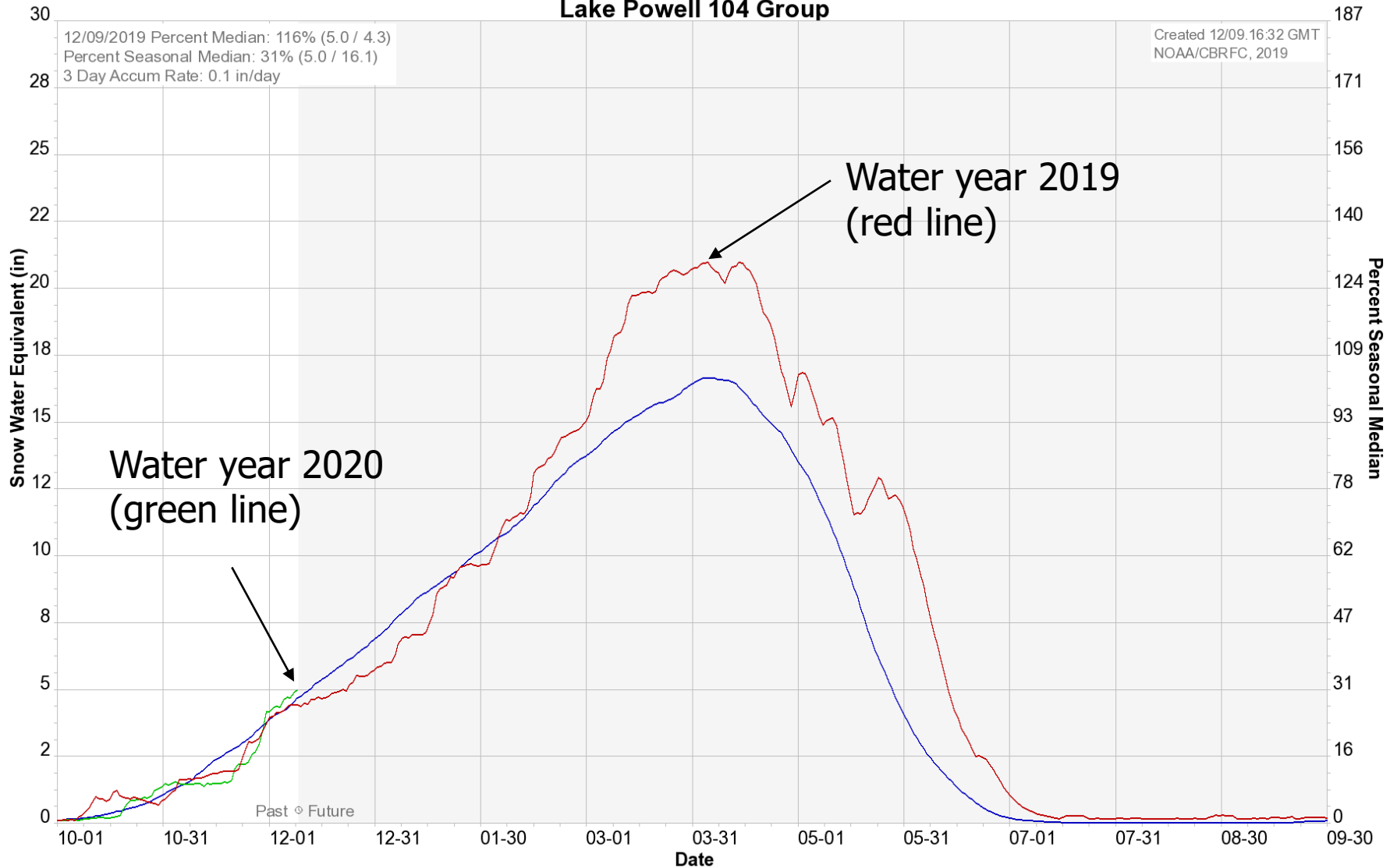


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Above Lake Powell November precipitation: 84%

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	8,302,000	77%*
April thru July 2020	5,300,000	74%*

* 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	1,084.6	10,392,000	40%	1,080.4
Lake Powell	3,610.8	12,800,000	53%	3,612.4

Data retrieved December 5, 2019

¹ Based on Reclamation's November 2019 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-October 2019	410,465	196,457	214,008
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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