

Colorado River Commission of Nevada

Hydrology and Water Use Update April 8, 2019



Summary

Lake Powell

- Water Year 2019 Upper Basin snowpack is 132% of average.
- Water Year 2019 Upper Basin cumulative precipitation is 124% of average.
- Water Year 2019 unregulated inflow is forecasted at 112% of average.
- Unregulated forecast would be the second highest in the last 22 years (if it turns out as expected).

Lake Mead

- A Lower Basin shortage is not projected for Water Year 2020.
- Lake Mead is projected to decrease about 9 feet by end of calendar year.

Nevada Water Supply

- Southern Nevada has 7 years of water supply banked.
- **In 2017, Southern Nevada used 19% less than its annual allocation.**

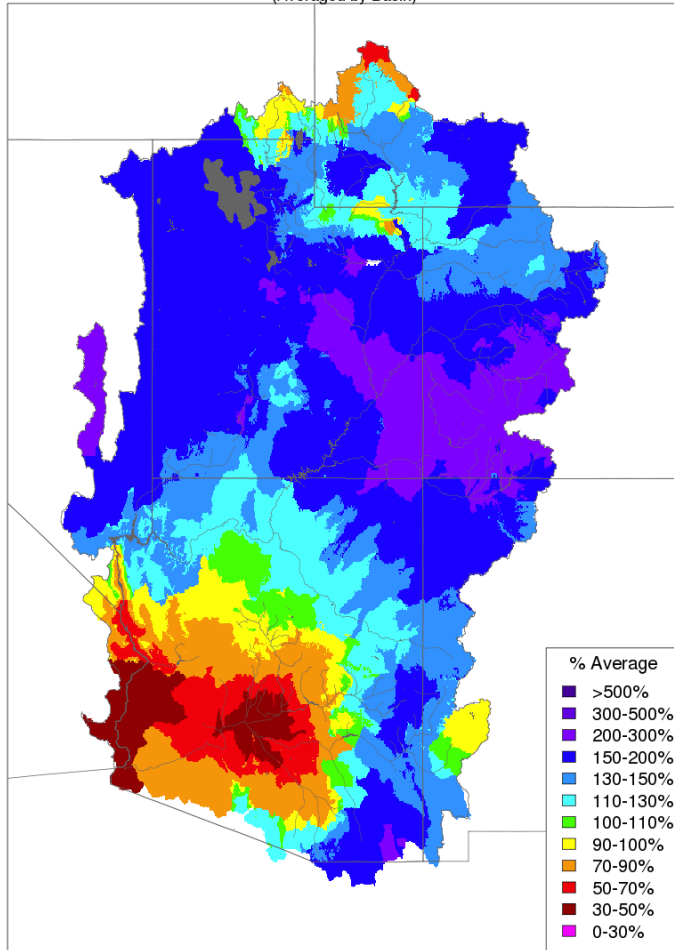
Storage	Elevation (f)	% Capacity	Change since last year
Lake Mead	1,089.9	42%	2.6 ft
Lake Powell	3,568.8	37%	- 42.8 ft

Data retrieved April 8th, 2019

Precipitation and Temperature

Monthly Precipitation - March 2019

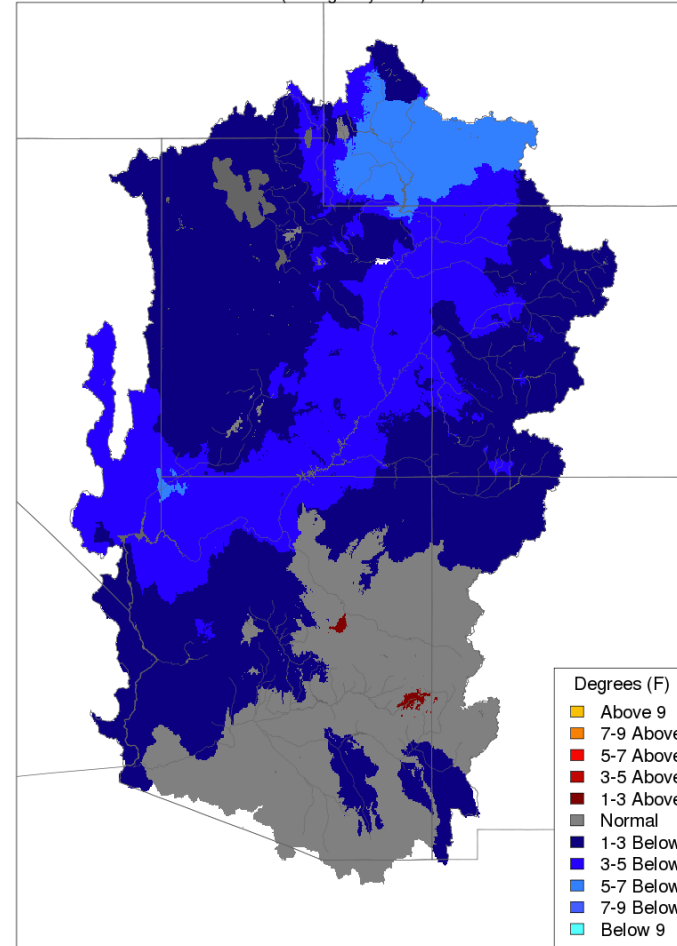
(Averaged by Basin)



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

Max Temp - Monthly Deviation - March 2019

(Averaged by Basin)



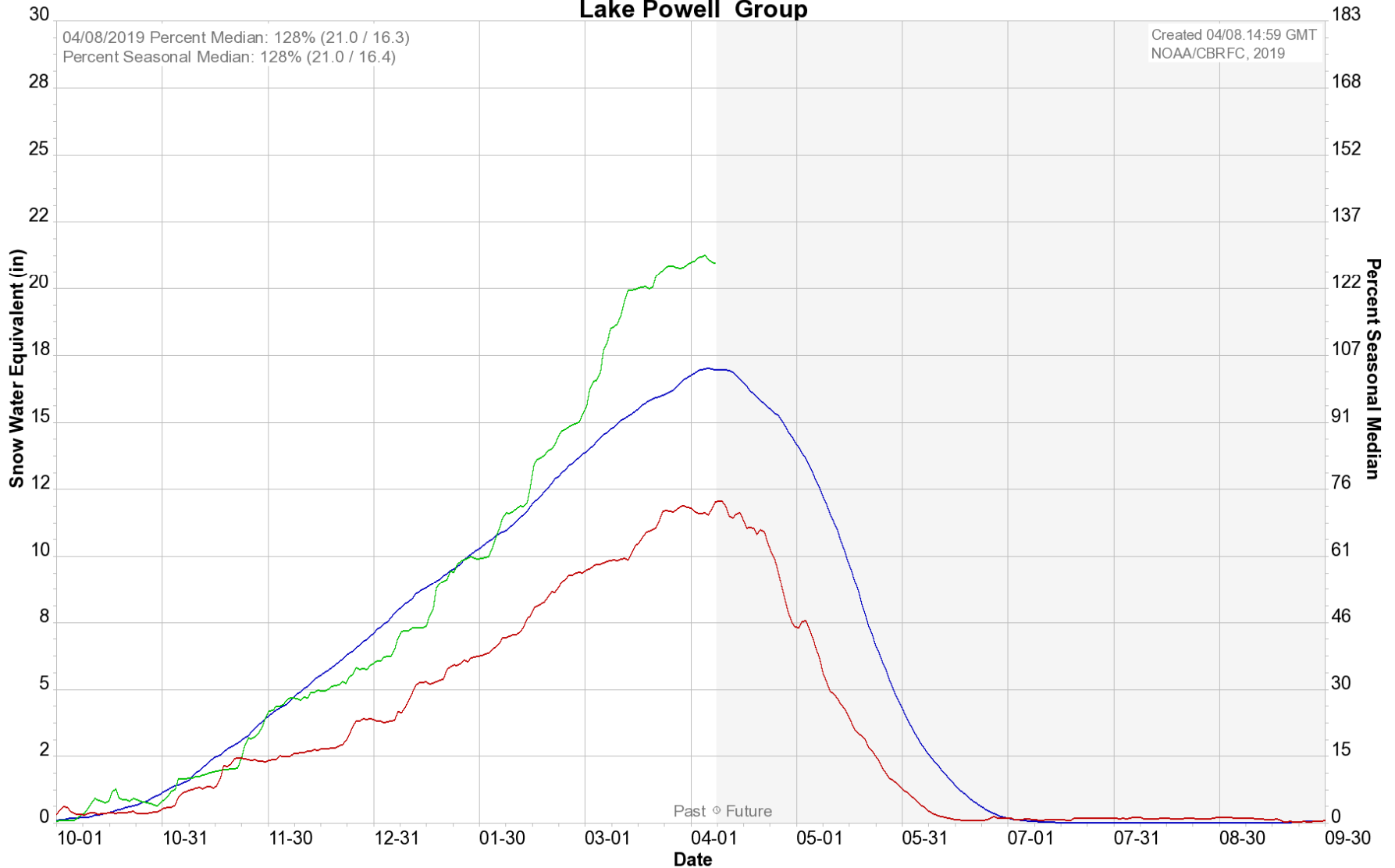
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Above Lake Powell March precipitation: 175%

Upper Basin Snowpack Accumulation

October 1st, 2018 to April 8th, 2019

Colorado Basin River Forecast Center Lake Powell Group



Unregulated Inflow, Current and Projected Reservoir Status

Projected unregulated inflow to Lake Powell Acre-Feet % Average

Water Year 2019	12,105,000	112%
April thru July 2019	9,200,000	128%

Reservoir	Current Elevation	Current Storage Acre-Feet	Current % Capacity	Projected Elevation on 1/1/2020 ¹
Lake Mead	1,089.9	10,878,000	42%	1,080.9
Lake Powell	3,568.8	9,049,000	37%	3,586.5

Data retrieved April 8th, 2019

¹ Based on Reclamation's March 2019 24 Month Study.

Water Use In Southern Nevada

Southern Nevada Water Use

2017 Actual Use in Acre-Feet

Nevada Annual Allocation	300,000
Diversion	470,271
Return Flows	226,846
Consumptive Use	243,425
Unused Allocation Available for Banking	56,575 (19%)

Southern Nevada Water Use

Diversions

Return Flows

Consumptive Use

January-February 2019	54,618	40,101	14,517
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Banked Water (through end of 2017)

Acre-Feet

Ground Water Recharge in So. Nevada	359,045
Banked in Lake Mead	582,313
Banked in California and Arizona	931,226
Total	1,872,584