

# Colorado River Commission of Nevada

## Hydrology and Water Use Update November 12, 2019



# Summary

## Lake Powell

- Water Year 2020 snowpack accumulation is currently near 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 81% of average.

## Lake Mead

- In calendar year 2020, Arizona and Nevada are required to have a DCP contribution. Nevada's contribution is 8,000 acre feet.
- Lake Mead is projected to increase about 6 feet by end of calendar year.

## Nevada Water Supply

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

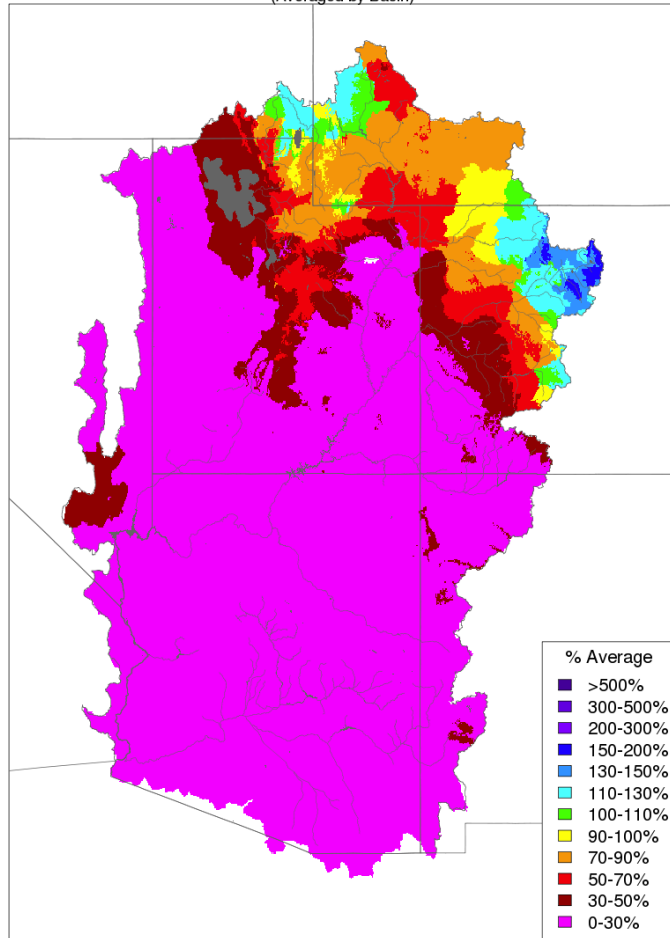
Storage	Elevation (f)	% Capacity	Change since last year
Lake Mead	1,083.0	39%	3.4 ft
Lake Powell	3,612.4	54%	24.6 ft

Data retrieved November 11, 2019

# Precipitation and Temperature

Monthly Precipitation - October 2019

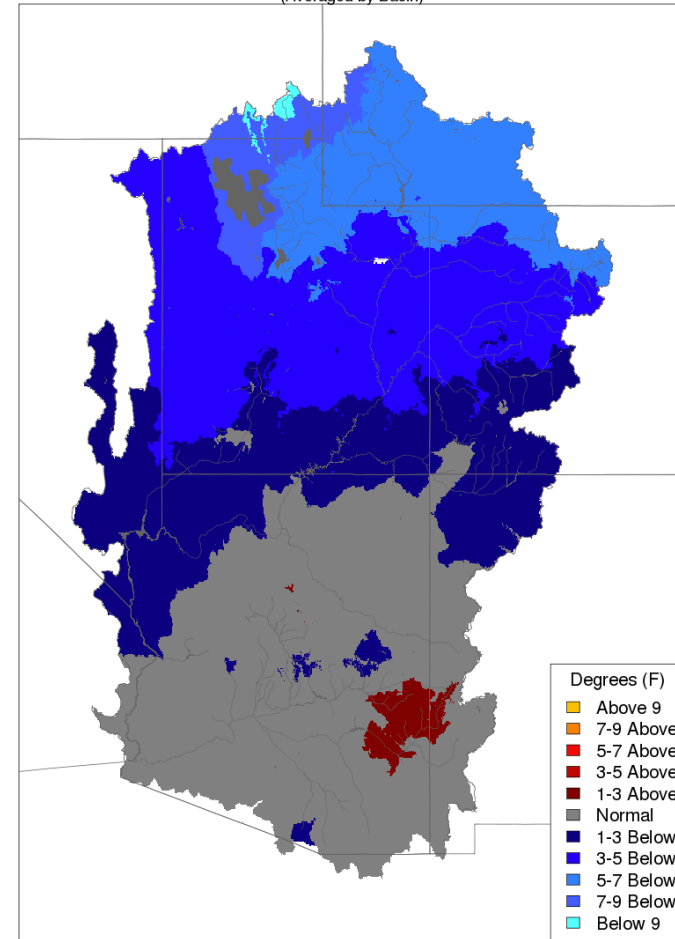
(Averaged by Basin)



Prepared by NOAA, Colorado Basin River Forecast Center  
Salt Lake City, Utah, [www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

Max Temp - Monthly Deviation - October 2019

(Averaged by Basin)

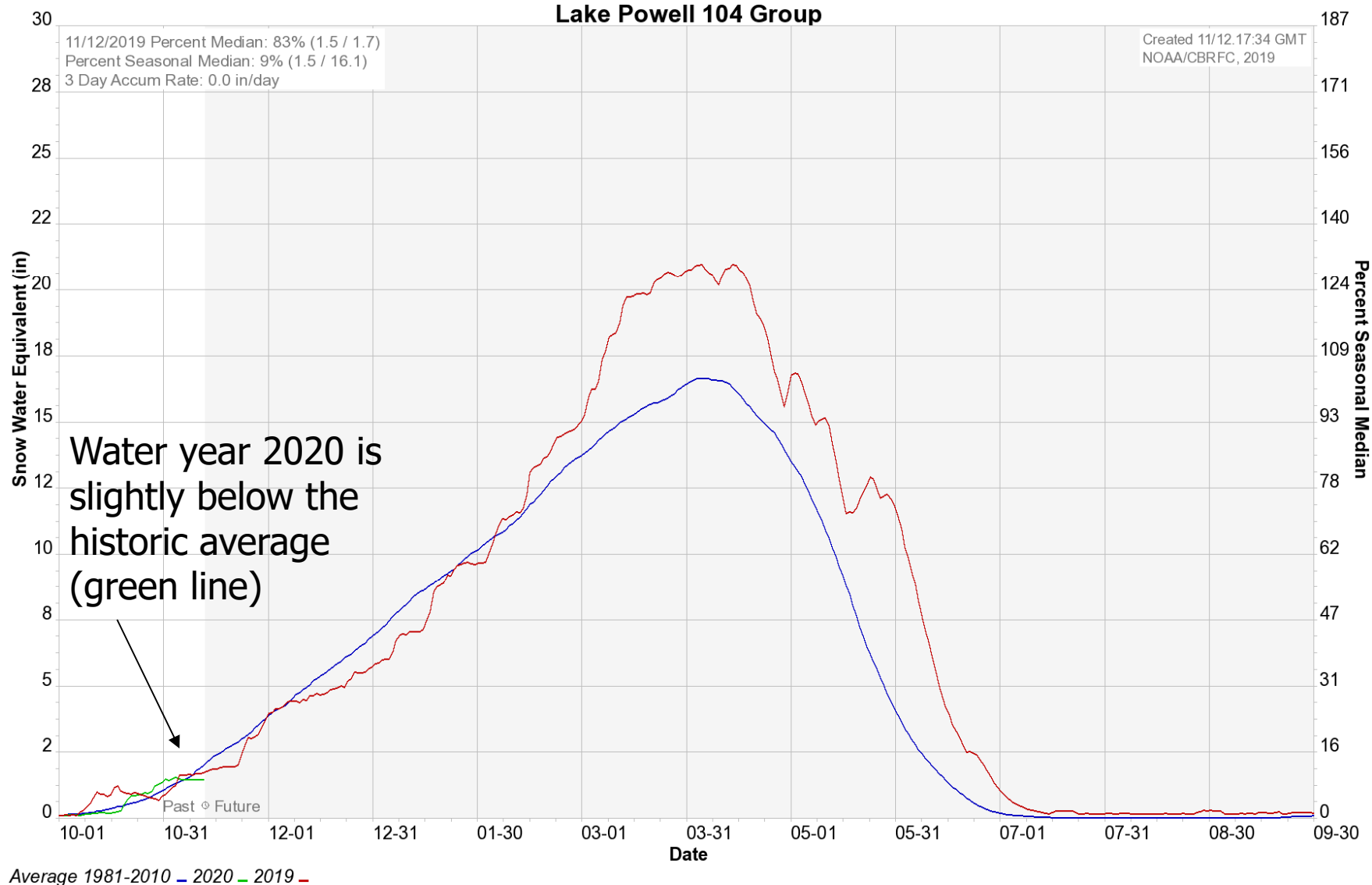


Prepared by NOAA, Colorado Basin River Forecast Center  
Salt Lake City, Utah, [www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

Above Lake Powell October precipitation: 76%

# 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	8,765,000	81%*
April thru July 2020	5,800,000	81%*

\* 2020 forecast reduced due to low precipitation and dry soil conditions.

Reservoir	Current Elevation	Current Storage Acre-Feet	Current % Capacity	Projected Elevation on 1/1/2020 <sup>1</sup>
Lake Mead	1,083.0	10,257,000	39%	1,088.6
Lake Powell	3,612.4	12,970,000	54%	3,609.8

Data retrieved November 11, 2019

<sup>1</sup> Based on Reclamation's October 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-September 2019	366,134	177,403	188,731
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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