

# Colorado River Commission of Nevada

## Hydrology and Water Use Update November 13, 2018



# Summary

## Lake Powell

- Water Year 2018 unregulated inflow was 43% of average.
- Water Year 2019 unregulated inflow is forecasted at 69% of average.
- Water Year 2019 is off to a good start with 138% of average precipitation in the Upper Basin.

## Lake Mead

- A shortage will not be declared for 2019.
- Lake Mead is projected to remain around current elevations through the end of the calendar year.

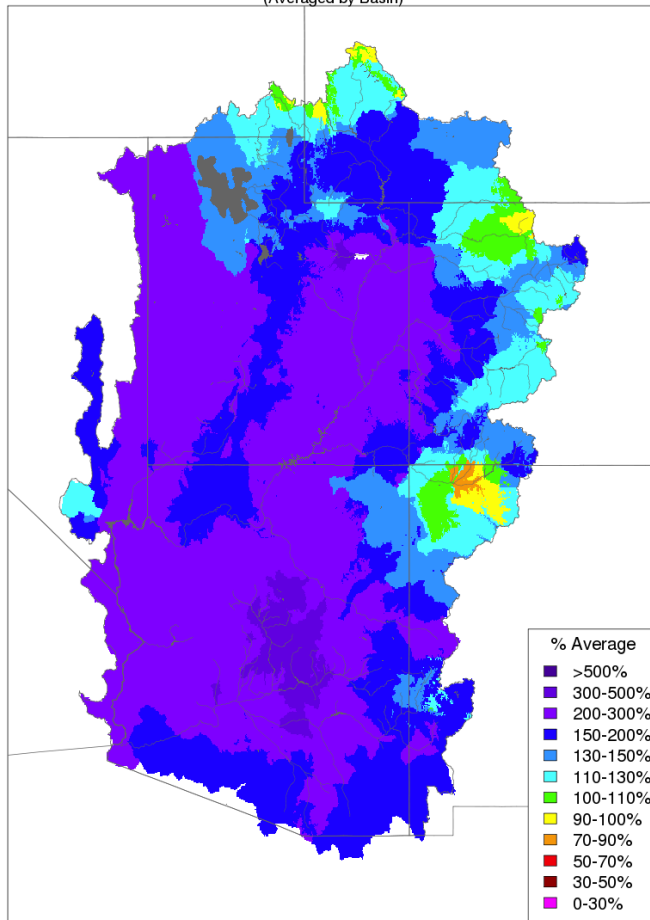
## Nevada Water Supply

- 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	1,078.4	38%	- 3.7 ft
Lake Powell	3,590.3	45%	- 37.9 ft

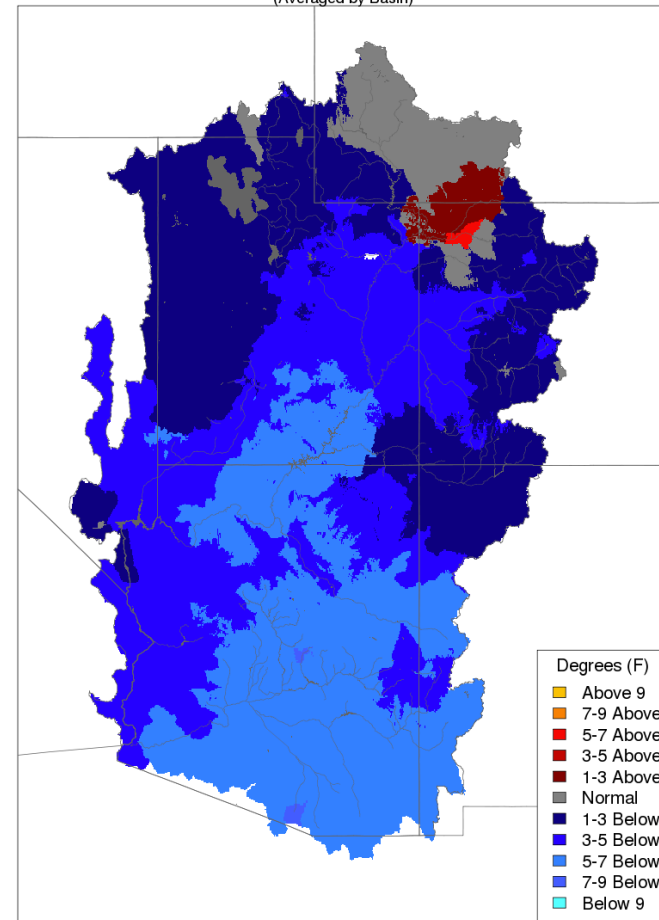
# Precipitation and Temperature

Monthly Precipitation - October 2018  
(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 2018  
(Averaged by Basin)

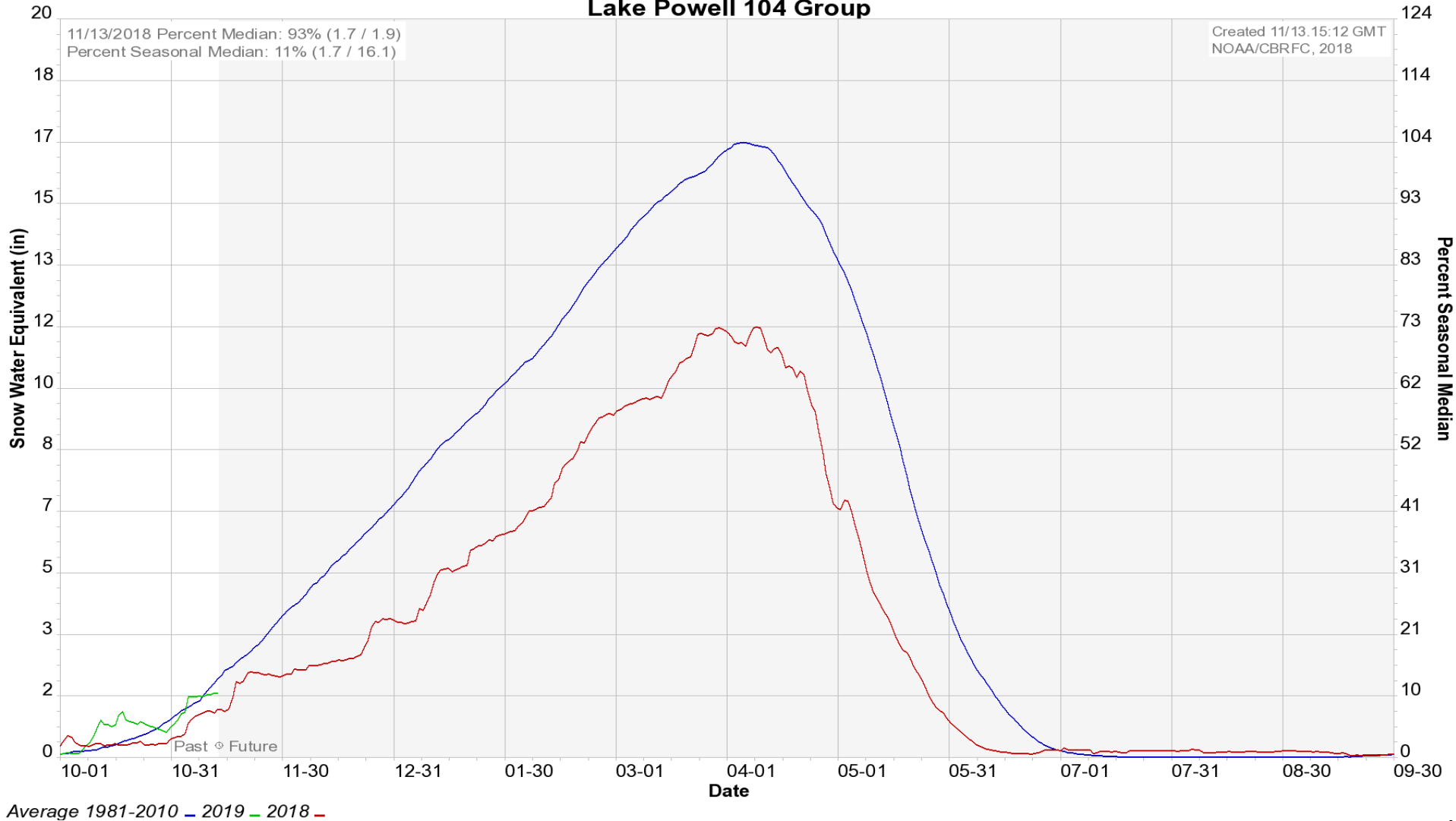


Prepared by NOAA, Colorado Basin River Forecast Center  
Salt Lake City, Utah, [www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

Above Lake Powell October Precipitation: 138%

# Upper Basin Snowpack Accumulation

## Colorado Basin River Forecast Center Lake Powell 104 Group



# 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 thru September 2018	369,445	175,272	194,174
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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

# Unregulated Inflow, Current and Projected Reservoir Status

Projected unregulated inflow to Lake Powell	Acre-Feet	% Average
Water Year 2018 (observed)	4,612,000	43%
April thru July 2018 (observed)	2,602,000	36%

Reservoir	Current Elevation	Current Storage Acre-Feet	Current % Capacity	Projected Elevation on 1/1/2020 <sup>1</sup>
Lake Mead	1,078.4	9,875,000	38%	1,069.8
Lake Powell	3,590.3	10,845,000	45%	3,569.5

Data retrieved November 5th, 2018

<sup>1</sup> Based on Reclamation's October 2018 24 Month Study.