

# Colorado River Commission of Nevada

## Hydrology and Water Use Update January 8, 2019



# Summary

## Lake Powell

- Water Year 2019 unregulated inflow is forecasted at 64% of average.
- Water Year 2019 Upper Basin cumulative precipitation is 100% of average.

## Lake Mead

- Lake Mead is projected to decrease about 13 feet by end of year.
- A Lower Basin shortage is projected for Water Year 2020.

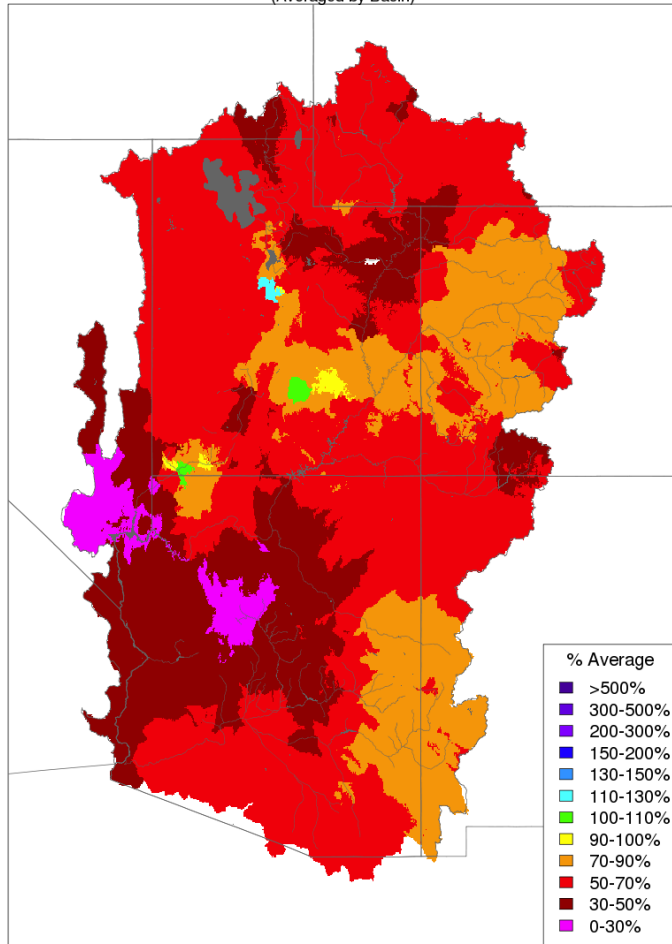
## Nevada Water Supply

- 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	1,081.3	39%	-1.2 ft
Lake Powell	3,582.0	42%	- 40.9 ft

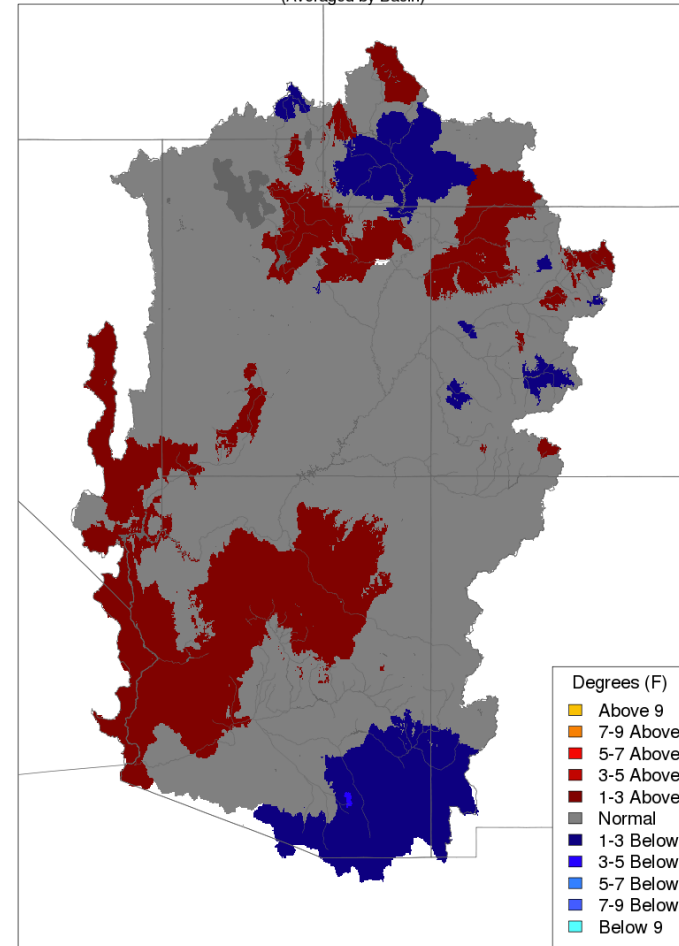
# Precipitation and Temperature

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



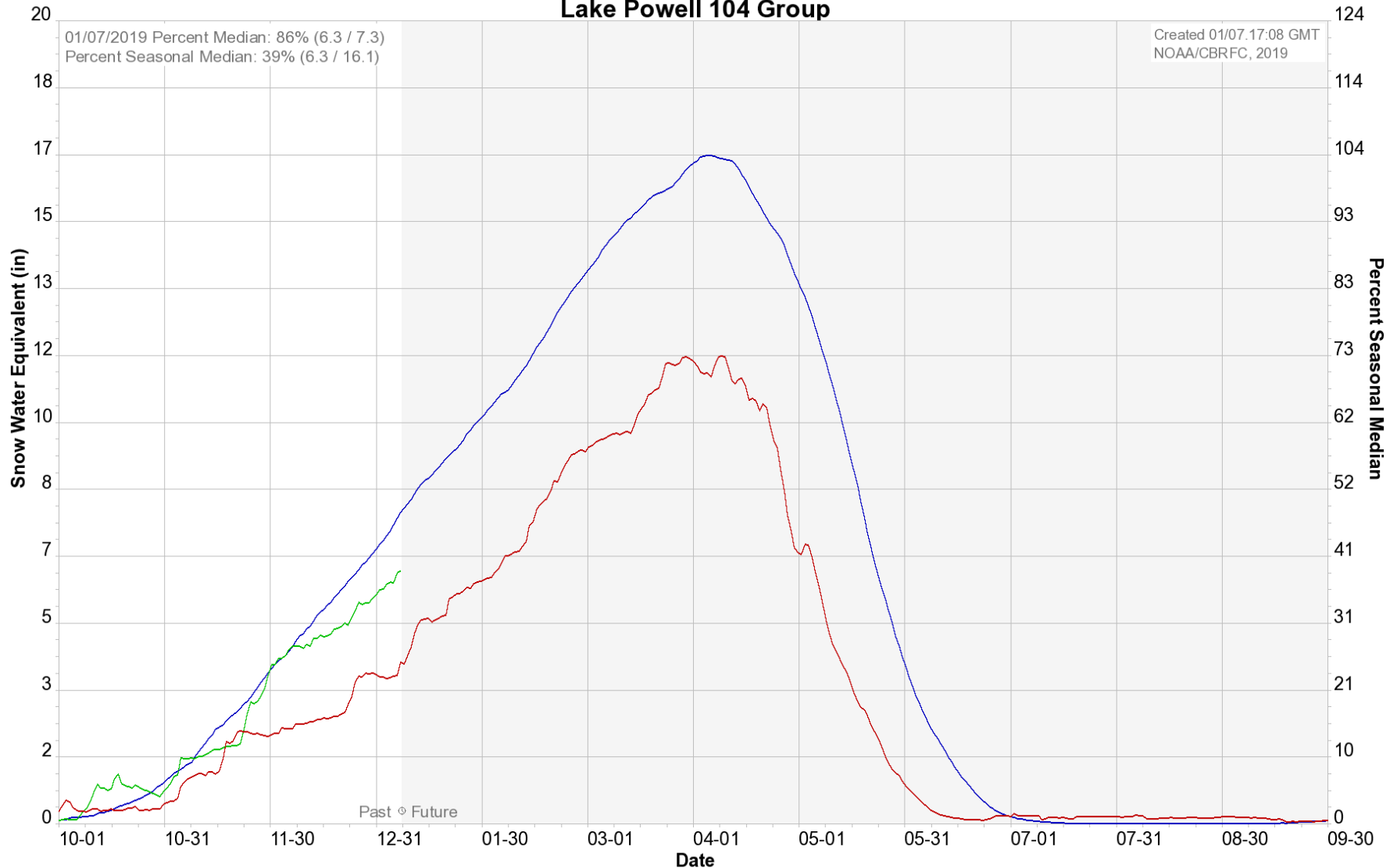
Prepared by NOAA, Colorado Basin River Forecast Center  
Salt Lake City, Utah, [www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

Above Lake Powell December Precipitation: 66%

# Upper Basin Snowpack Accumulation

October 1<sup>st</sup>, 2018 to January 7<sup>th</sup>, 2019

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 November 2018	448,158	215,018	233,140
----------------------------	---------	---------	---------

## 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 2019	6,983,000	64%
April thru July 2019	4,550,000	64%

Reservoir	Current Elevation	Current Storage Acre-Feet	Current % Capacity	Projected Elevation on 1/1/2020 <sup>1</sup>
Lake Mead	1,081.3	10,122,000	39%	1,068.1
Lake Powell	3,582.0	10,110,000	42%	3,567.6

Data retrieved December 31st, 2018

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