### 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**

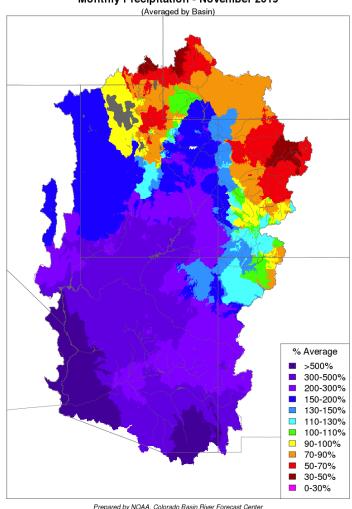
- Southern Nevada has 7 years of water supply banked. <sup>1</sup>
- In 2018, Southern Nevada used 19% less than its annual allocation.

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

<sup>&</sup>lt;sup>1</sup> Based on historical Southern Nevada water use.

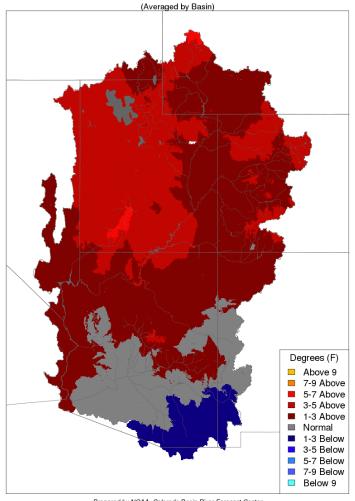
### Precipitation and Temperature





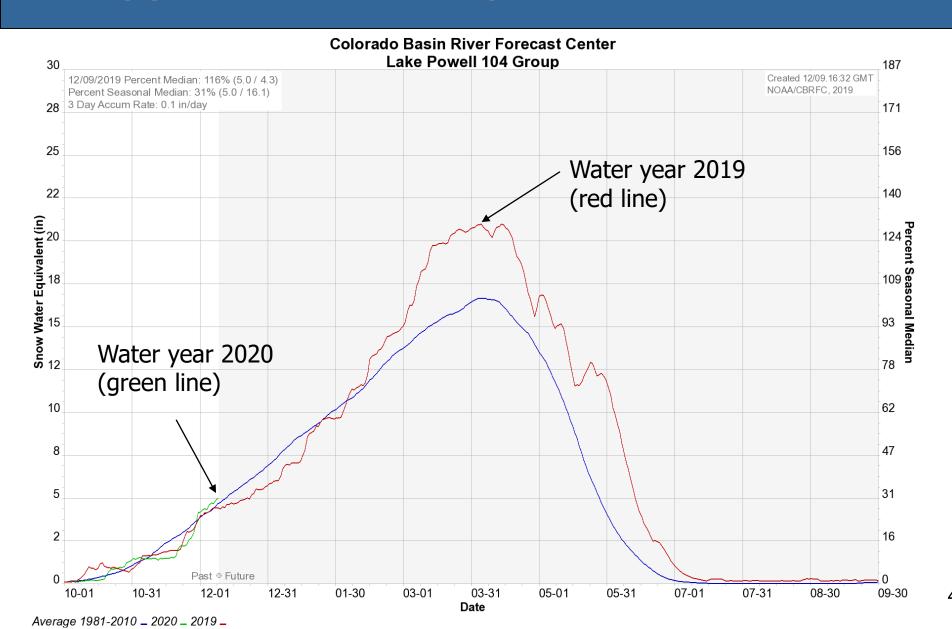
Prepared by NOAA, Colorado Basin River Forecast Center Salt Lake City, Utah, www.cbrfc.noaa.gov

Max Temp - Monthly Deviation - November 2019



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

## Upper Basin Snowpack Accumulation



# Unregulated Inflow, Current and Projected Reservoir Status

Projected unregulated inflow to Lake Power	ell Acre-Feet	% Average
Water Year 2020	8,302,000	77%*
April thru July 2020	5,300,000	74%*

<sup>\* 2020</sup> 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 <sup>1</sup>
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

<sup>&</sup>lt;sup>1</sup> Based on Reclamation's November 2019 24 Month Study Most Probable Inflow.

### Water Use In Southern Nevada

2018 Actual Use in Acre-Feet

**Southern Nevada Water Use** 

			2010 Actual Ose III Acte-1 cet		
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	R	eturn Flows	Consumptive Use	
January-October 2019	410,465		196,457 	214,008	
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		