

Colorado River Commission of Nevada

Hydrology and Water Use Update

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February 9, 2021



Summary

Lake Powell

- Drought conditions are causing below average inflow forecasts.
- Unregulated inflow for water year¹ 2021 is forecasted at 48% of average.
- Upper Basin snowpack is currently 76% of seasonal average.

Lake Mead

- Lake Mead is forecasted to decrease about 16 feet in elevation by the end of calendar year 2021.
- Lower Basin conservation programs have conserved roughly 3.5 million af or about 40 additional feet in Lake Mead.

Nevada Water Supply

- Southern Nevada has 9 years of water supply banked. ²
- **In 2019, Southern Nevada used 22% less than its annual allocation.**

Storage	Elevation (f)	% Capacity	Change since last year
Lake Mead	1,086.0	40%	-8.8 ft
Lake Powell	3,576.5	40%	-28.9 ft

Data retrieved February 1, 2021

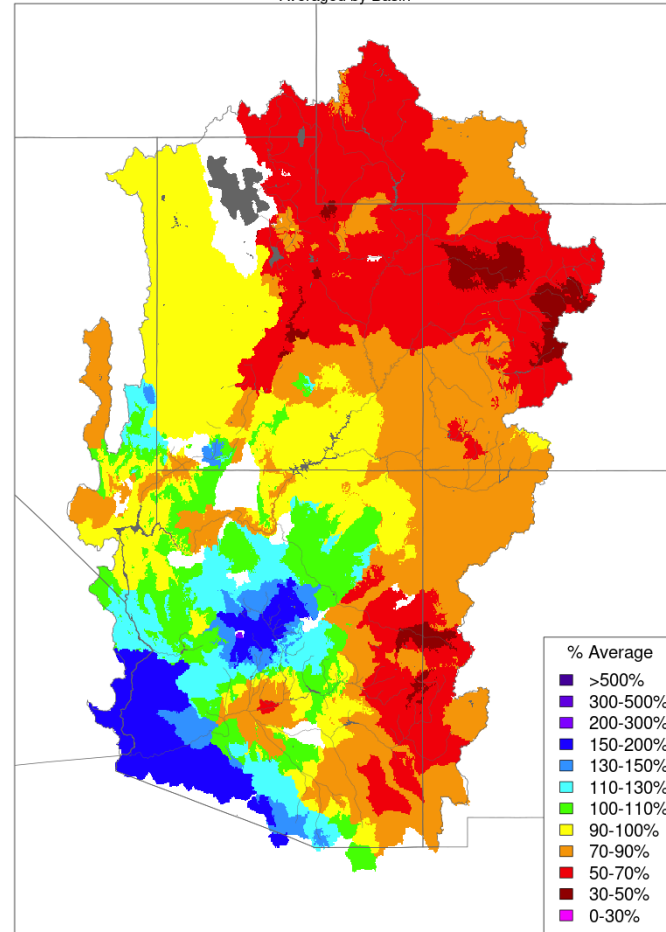
¹ Water year is defined as October through September.

² Based on historical Southern Nevada water use.

Precipitation and Temperature

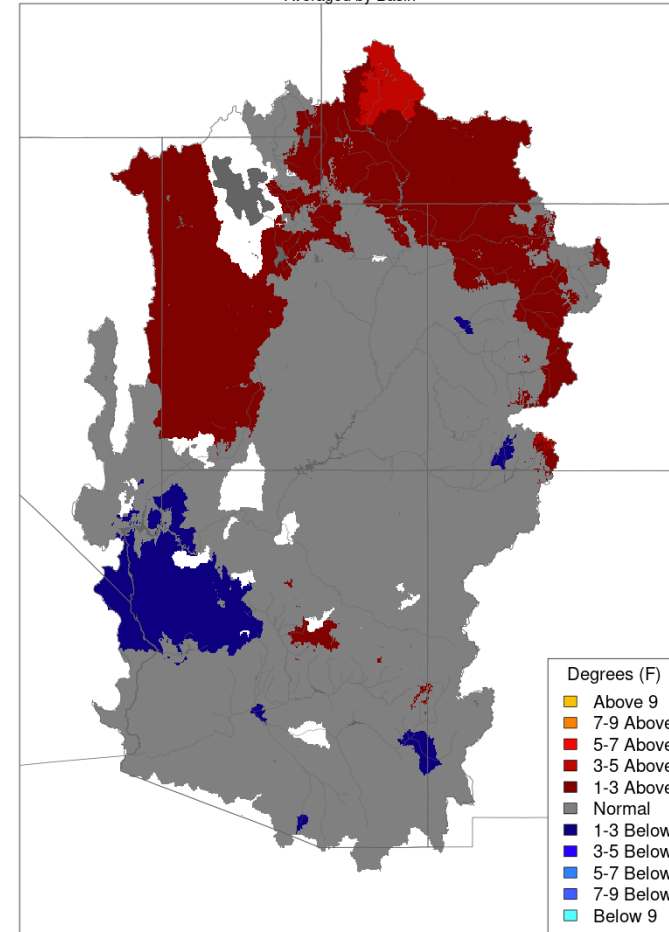


Monthly Precipitation - January 2021
Averaged by Basin



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

Max Temp - Monthly Deviation - January 2021
Averaged by Basin



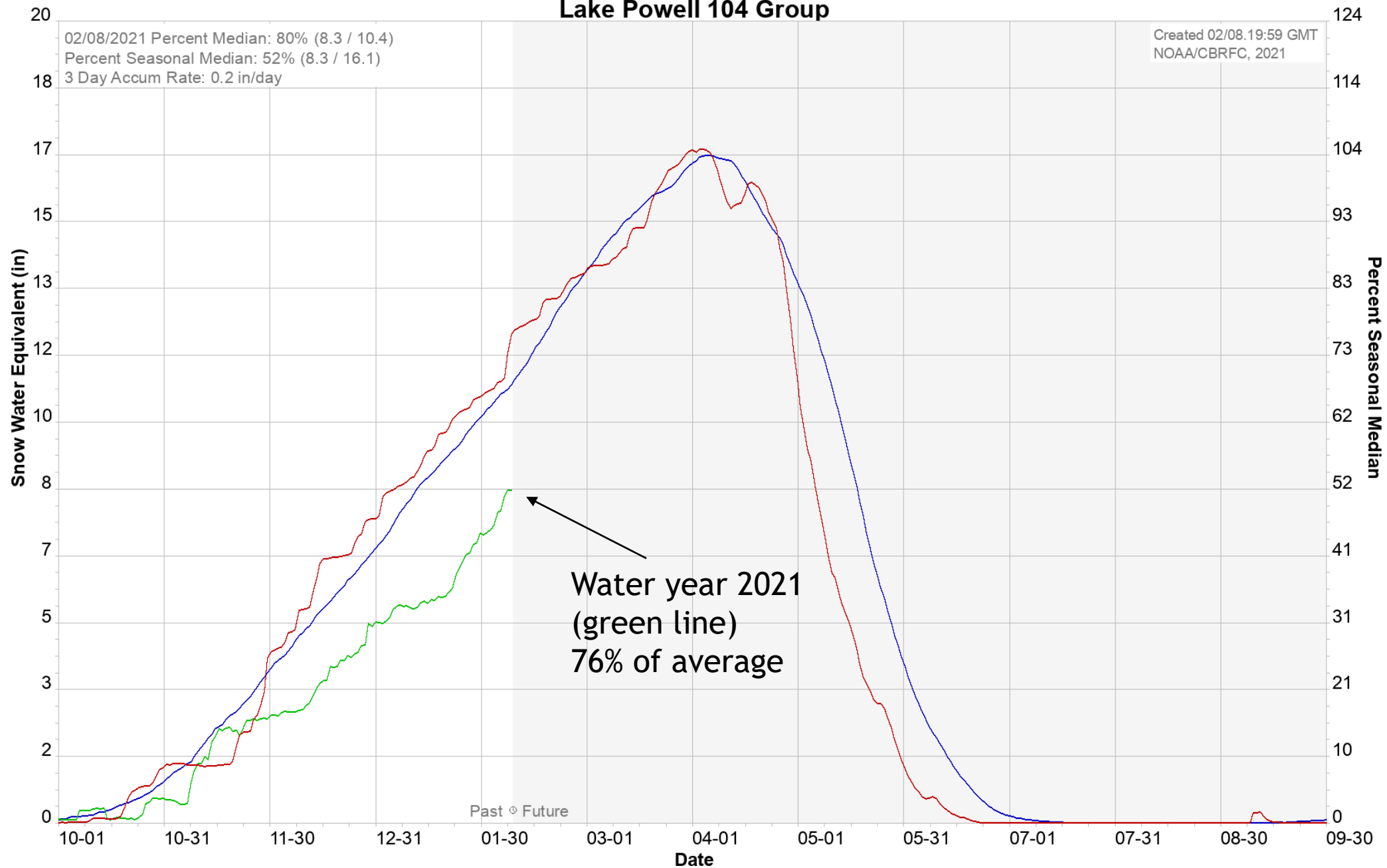
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Above Lake Powell January precipitation: 63%

Above Lake Powell water year 2021 cumulative precipitation: 66%



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 2021	5,149,000	48%
April thru July 2021	3,300,000	46%

Reservoir	Current Elevation	Current Storage Acre-Feet	Current % Capacity	Projected Elevation on 1/1/2022 ¹
Lake Mead	1,086.0	10,510,000	40%	1,069.8
Lake Powell	3,576.5	9,638,000	40%	3,558.6

Data retrieved February 1, 2021

¹ Based on Reclamation's January 2020 24 Month Study Most Probable Inflow.

2007 Interim Guidelines and Drought Contingency Plan

Table 1 – DCP Contributions and 2007 Interim Guidelines Shortages by State

Projected January 1 Lake Mead Elevation (feet msl)	2007 Interim Guidelines Shortages		DCP Contributions			Combined Volumes (2007 Interim Guidelines Shortages & DCP Contributions)			
	Arizona	Nevada	Arizona	Nevada	California	Arizona	Nevada	California	Lower Division States Total
	<i>(thousand acre-feet)</i>								
At or below 1,090 and above 1,075	0	0	192	8	0	192	8	0	200
At or below 1,075 and at or above 1,050	320	13	192	8	0	512	21	0	533
Below 1,050 and above 1,045	400	17	192	8	0	592	25	0	617
At or below 1,045 and above 1,040	400	17	240	10	200	640	27	200	867
At or below 1,040 and above 1,035	400	17	240	10	250	640	27	250	917
At or below 1,035 and above 1,030	400	17	240	10	300	640	27	300	967
At or below 1,030 and at or above 1,025	400	17	240	10	350	640	27	350	1,017
Below 1,025	480	20	240	10	350	720	30	350	1,100

Water Use In Southern Nevada

Southern Nevada Water Use

2019 Actual Use in Acre-Feet

Nevada Annual Allocation	300,000
Diversions	472,314
Return Flows	238,318
Consumptive Use	233,996
Unused Allocation Available for Banking	66,004 (22%)

Southern Nevada Water Use

Diversions

Return Flows

Consumptive Use

January-December 2020	479,146	223,420	255,726
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Banked Water (through end of 2019)

Acre-Feet

Ground Water Recharge in So. Nevada	358,315
Banked in Lake Mead	785,913
Banked in California and Arizona	944,071
Total	2,088,299