Colorado River Basin
System Status Update

CRWUA 2020 Annual Meeting

December 18, 2020

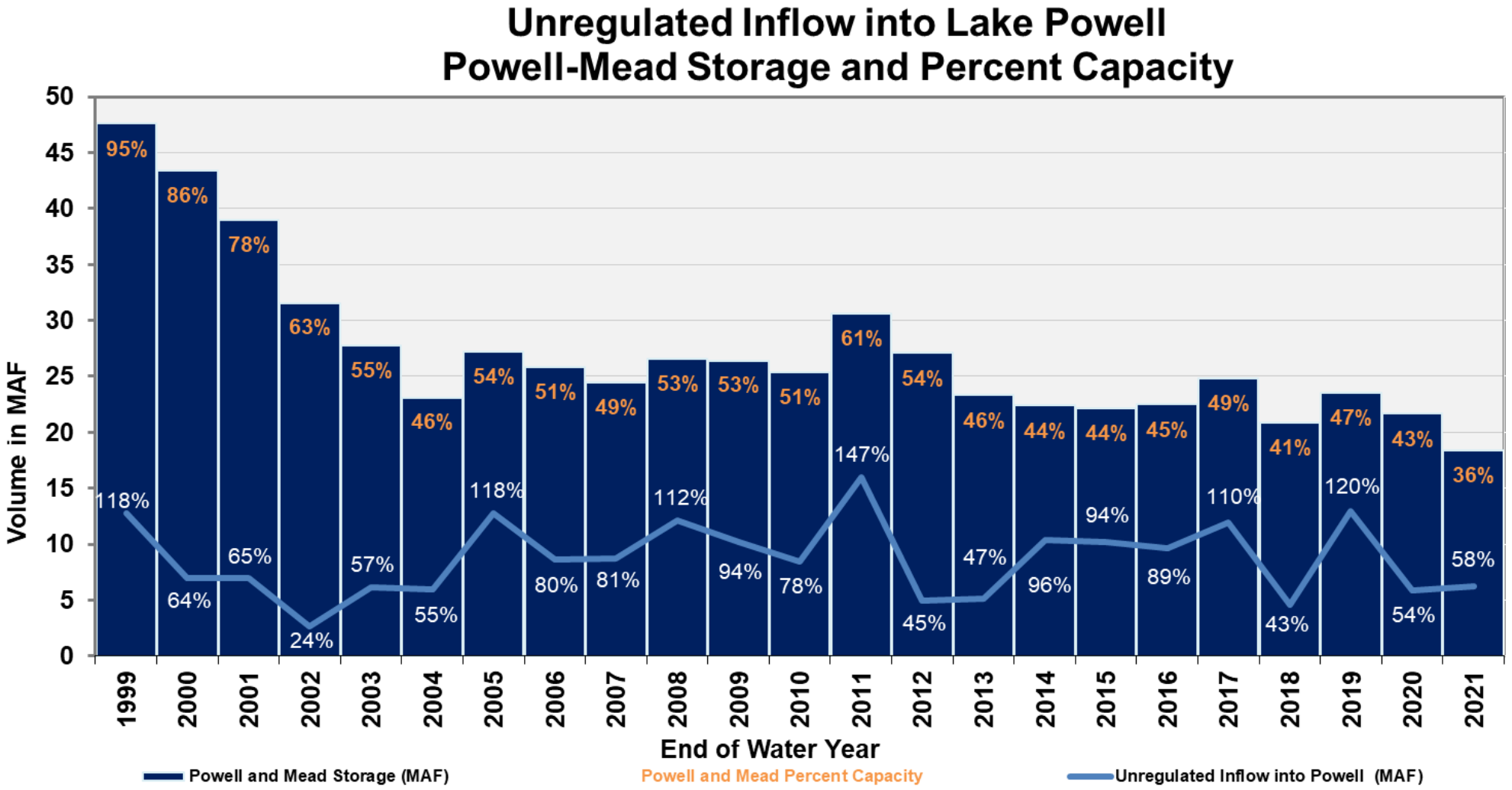
Colorado River Basin Storage

as of December 16, 2020

Reservoir	Percent Full	Storage (maf)	Elevation (feet)
Lake Powell	43%	10.4	3,585
Lake Mead	39%	10.2	1,083
Total System Storage*	46%	27.7	NA

Total system storage was 31.3 maf, or 52% of capacity, this time last year

State of the System (Water Years 1999-2021)[1,2]



[1] Values for Water Year 2021 are projected. Unregulated inflow is based on the latest CBRFC forecast dated Decemeber 16, 2020. Storage and percent capacity are based on the December 2020 24-Month Study.

[2] Percentages on the light blue line represent percent of average unregulated inflow into Lake Powell for a given water year. The percent of average is based on the period of record from 1981-2010.

Lake Powell & Lake Mead Operational Table

Operational Determinations for Water Year/Calendar Year 2021[1]

Lake Powell

Elevation (feet)	Operation According to the Interim Guidelines	Live Storage (maf)[1]
3,700	**Equalization Tier** Equalize, avoid spills or release 8.23 maf	24.3
3,636 - 3,666 (2008-2026)	**Upper Elevation Balancing Tier**[3] Release 8.23 maf; if Lake Mead < 1,075 feet, balance contents with a min/max release of 7.0 and 9.0 maf	15.5 - 19.3 (2008-2026)
3,591.60 ft ***Jan 1, 2021 Projection***		
3,575		9.5
	Mid-Elevation Release Tier Release 7.48 maf; if Lake Mead < 1,025 feet, release 8.23 maf	
3,525		5.9
	Lower Elevation Balancing Tier Balance contents with a min/max release of 7.0 and 9.5 maf	
3,490		4.0
3,370		0

Lake Mead

Elevation (feet)	Operation According to the Interim Guidelines	Live Storage (maf)[1]
1,220	**Flood Control Surplus or Quantified Surplus Condition** Deliver > 7.5 maf	25.9
1,200 (approx.)[2]	**Domestic Surplus or ICS Surplus Condition** Deliver > 7.5 maf	22.9 (approx.)[2]
1,145		15.9
1,105	**Normal or ICS Surplus Condition** Deliver ≥ 7.5 maf	11.9
	1,085.28 ft ***Jan 1, 2021 Projection***	
1,075	**Shortage Condition** Deliver 7.167[4] maf	9.4
1,050	**Shortage Condition** Deliver 7.083[5] maf	7.5
1,025		5.8
1,000	**Shortage Condition** Deliver 7.0[6] maf Further measures may be undertaken[7]	4.3
895		0

Diagram not to scale

[1] Acronym for million acre-feet

[2] This elevation is shown as approximate as it is determined each year by considering several factors including Lake Powell and Lake Mead storage, projected Upper Basin and Lower Basin demands, and an assumed inflow.

[3] Subject to April adjustments which may result in a release according to the Equalization Tier

[4] Of which 2.48 maf is apportioned to Arizona, 4.4 maf to California, and 0.287 maf to Nevada

[5] Of which 2.40 maf is apportioned to Arizona, 4.4 maf to California, and 0.283 maf to Nevada

[6] Of which 2.32 maf is apportioned to Arizona, 4.4 maf to California, and 0.280 maf to Nevada

[7] Whenever Lake Mead is below elevation 1,025 feet, the Secretary shall consider whether hydrologic conditions together with anticipated deliveries to the Lower Division States and Mexico is likely to cause the elevation at Lake Mead to fall below 1,000 feet. Such consideration, in consultation with the Basin States, may result in the undertaking of further measures, consistent with applicable Federal law.

[1] Consistent with the 2007 Interim Guidelines, Lake Powell and Lake Mead operational determinations are based on August 2020 24-Month Study projections of January 1, 2021 reservoir elevations and are documented in the draft 2021 Annual Operating Plan.

Total Contemplated Volumes (in thousand acre-feet (AF))
2007 Interim Guidelines, Minute 323, Lower Basin Drought Contingency Plan & Binational Water Scarcity Contingency Plan

Lake Mead

Projected End of Calendar Year 2020 Elevation

1,085.28 feet

(based on the August 2020 24-Month Study)

Lake Mead Elevation (ft msl)	2007 Interim Guidelines Shortages		Minute 323 Delivery Reductions	Total Combined Reductions	DCP Contributions			Binational Water Scarcity Contingency Plan Savings	Combined Volumes by Country *US: (2007 Interim Guidelines Shortages + DCP Contributions)* *Mexico: (Minute 323 Delivery Reductions + Binational Water Scarcity Contingency Plan Savings)*					Total Combined Volumes
	AZ	NV	Mexico	***Lower Basin States + Mexico***	AZ	NV	CA	Mexico	*AZ Total*	*NV Total*	*CA Total*	*Lower Basin States Total*	*Mexico Total*	***Lower Basin States + Mexico***
1,090 - >1,075	0	0	0	***0***	192	8	0	41	192	8	0	*200*	*41*	***241***
1,075 - >1050	320	13	50	***383***	192	8	0	30	512	21	0	*533*	*80*	***613***
1,050 - >1,045	400	17	70	***487***	192	8	0	34	592	25	0	*617*	*104*	***721***
1,045 - >1,040	400	17	70	***487***	240	10	200	76	640	27	200	*867*	*146*	***1,013***
1,040 - >1,035	400	17	70	***487***	240	10	250	84	640	27	250	*917*	*154*	***1,071***
1,035 - >1,030	400	17	70	***487***	240	10	300	92	640	27	300	*967*	*162*	***1,129***
1,030 – 1,025	400	17	70	***487***	240	10	350	101	640	27	350	*1,017*	*171*	***1,188***
<1,025	480	20	125	***625***	240	10	350	150	720	30	350	*1,100*	*275*	***1,375***

The United States will take affirmative actions to create or conserve 100,000 af or more of Colorado River system water on an annual basis to contribute to conservation of water supplies in Lake Mead and other Colorado River reservoirs in the Lower Basin. All actions taken by the United States shall be subject to applicable federal law, including availability of appropriations.

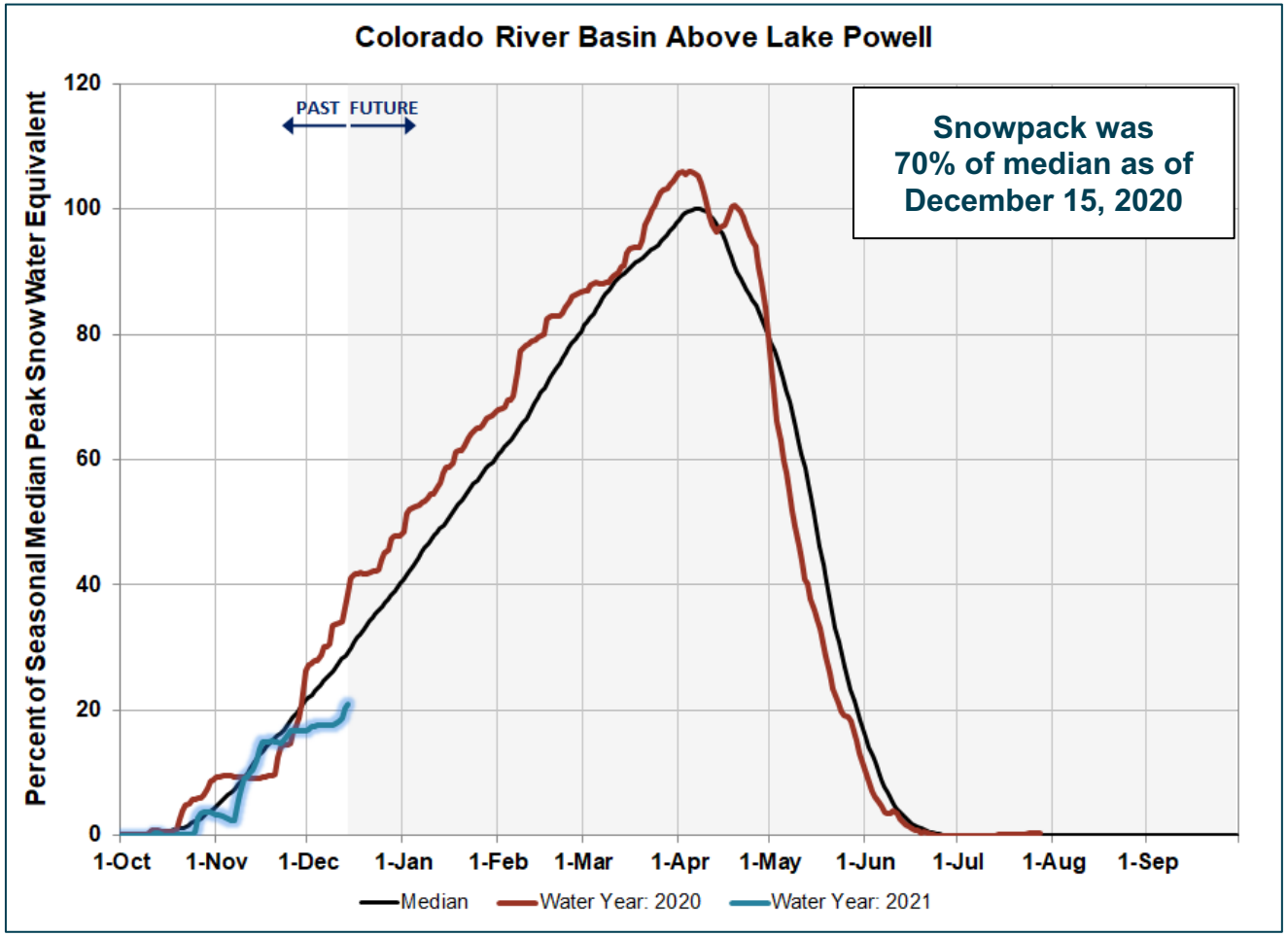
Upper Colorado River Basin
Water Year 2021 Snowpack and Forecasted Lake Powell Inflow

Water Year 2021 Forecasted Inflow

(Most Probable Inflow as of December 16, 2020)

6.23 maf

58% of average



Percent of average inflow and snowpack are based on the period of record from 1981-2010

24-Month Study Projections

Lake Powell Elevations*

End of CY 2021 Projections

Most Probable: 3,571 feet (38% full)

Max Probable: 3,649 feet (70% full)

Min Probable: 3,556 feet (33% full)

Lake Mead Elevations*

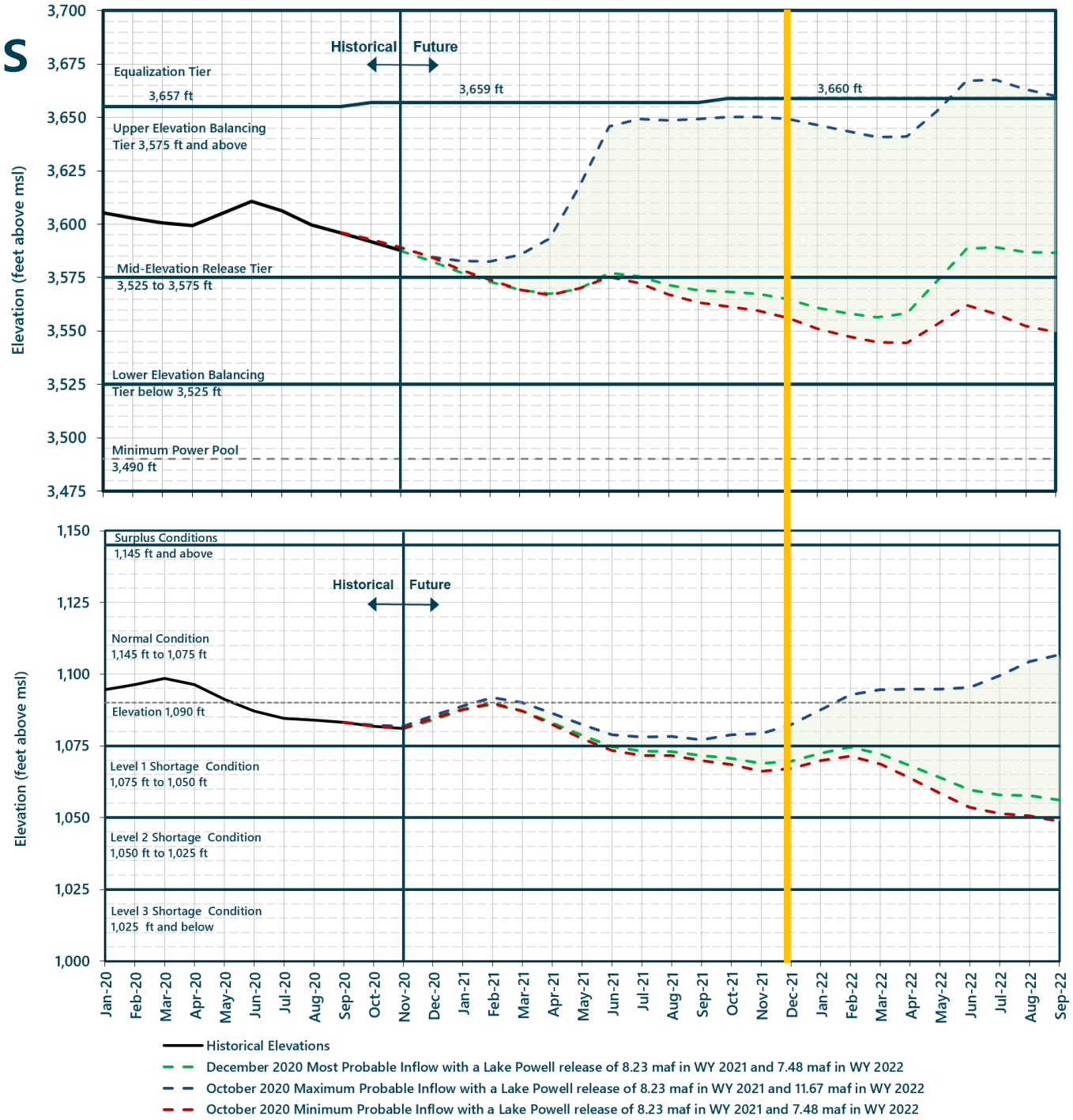
End of CY 2021 Projections

Most Probable: 1,070 feet (35% full)

Max Probable: 1,082 feet (39% full)

Min Probable: 1,067 feet (34% full)

**Projections from the December 2020 Most Probable and October 2020 Min/Max Probable 24-Month Study Scenarios*



For additional information:

https://www.usbr.gov/uc/water/

https://www.usbr.gov/lc/riverops.html

For 5-year projected future conditions:

https://www.usbr.gov/lc/region/g4000/riverops/coriver-projections.html

BUREAU OF RECLAMATION