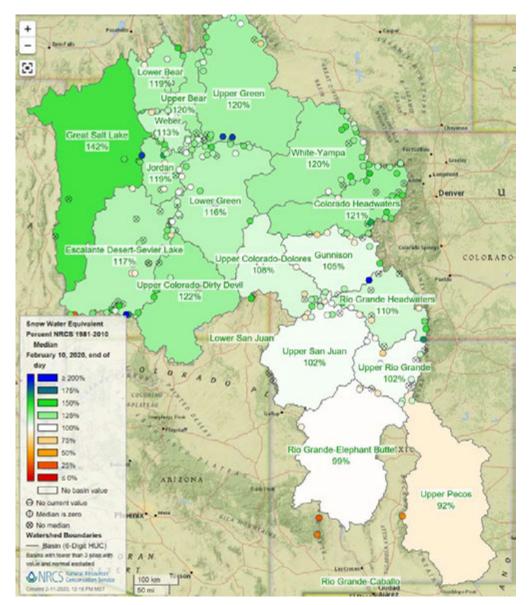
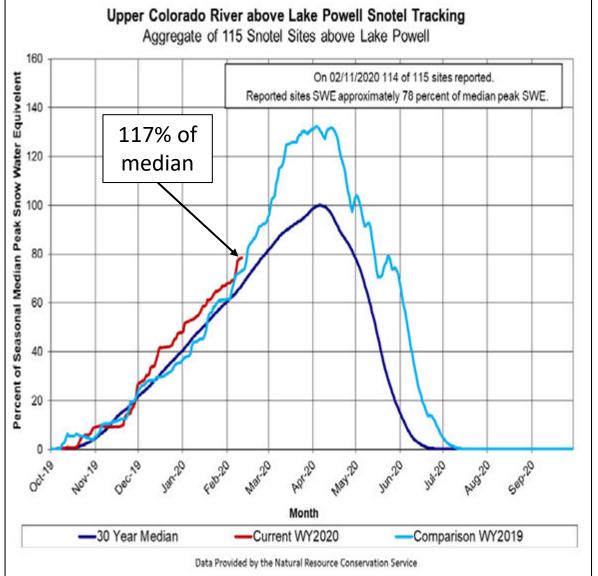


Upper Basin Snowpack

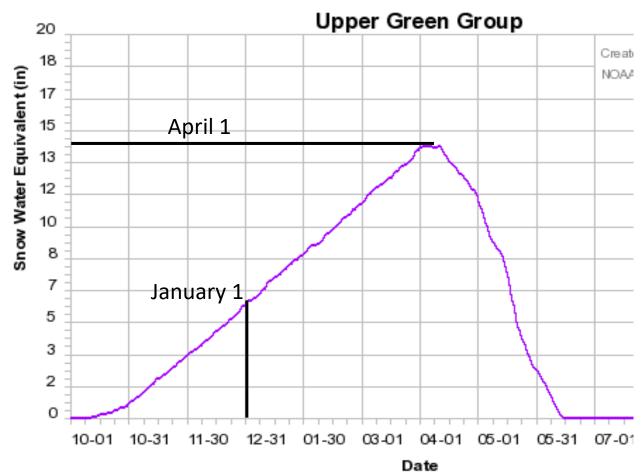






Forecast Development





Median 1981-2010 -

January 1st Forecast

- What we know:
 - About 40% snowpack accumulation
 - Fall Soil Moisture conditions
- What we don't know:
 - Jan-May weather
 - About 60% of the snowpack accumulation

April 1st Forecast

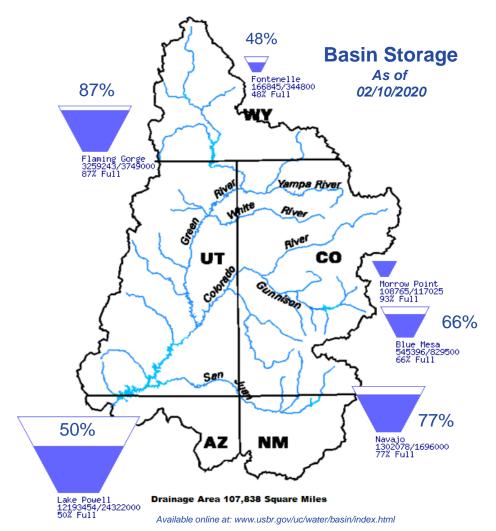
- What we know:
 - About 98% of the snowpack accumulation
 - Dec-March weather
- What we don't know:
 - April-May weather
 - Snowmelt pattern



Upper Basin Storage and Inflow

Data Current as of: 02/10/2020

Upper Colorado River Drainage Basin



Water Year 2020
Forecasted Unregulated Inflow
Issued February 4, 2020

Reservoir	Forecast (kaf)	Percent of Average ¹			
Fontenelle	971	90			
Flaming Gorge	1,339	92			
Blue Mesa	819	86			
Navajo	682	63			
Powell	8,644	80			

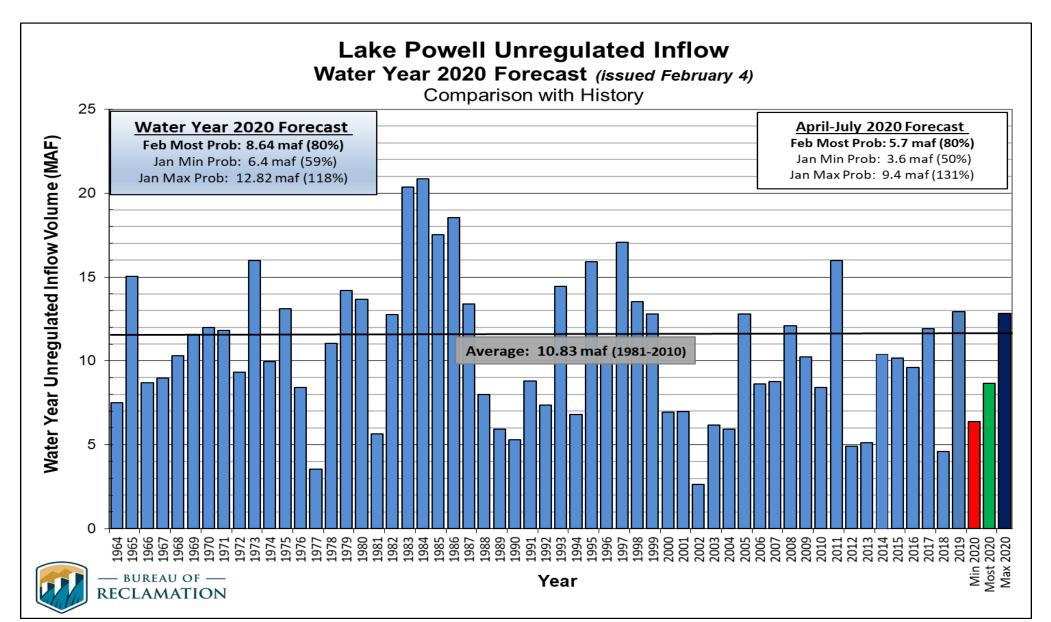
April-July 2020 Forecasted Unregulated Inflow

Reservoir	Forecast (kaf)	Percent of Average ¹
Fontenelle	620	85
Flaming Gorge	870	89
Blue Mesa	560	83
Navajo	500	68
Powell	5,700	80





Lake Powell Inflow





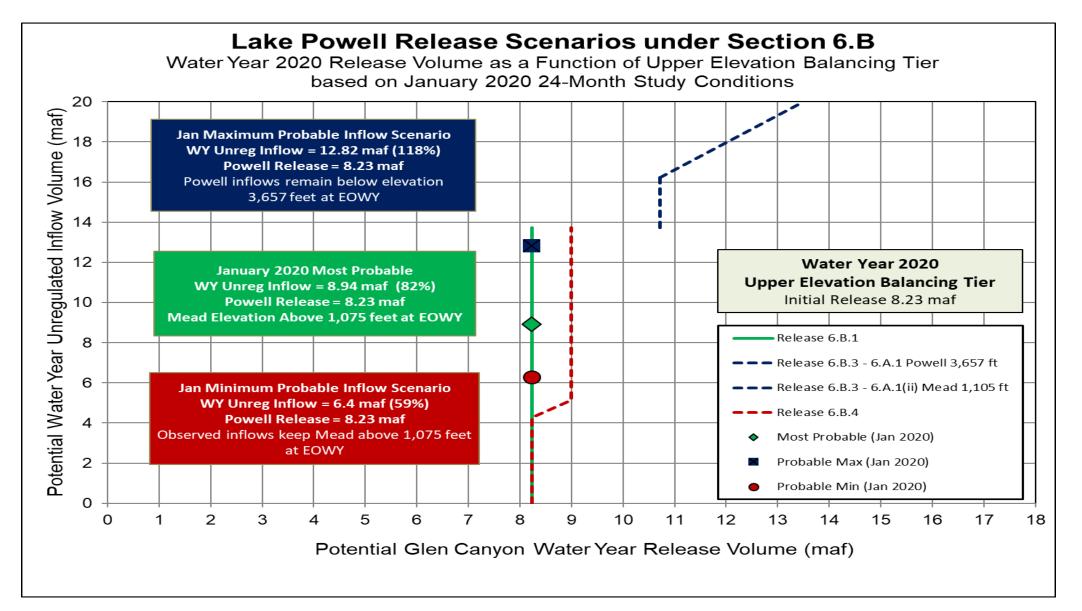
Lake Powell 2020 Operating Tier

- Tier was set in August 2019
 - Start with 8.23 maf release
- Use April 24-Month Study projections of end of water year storage to potentially adjust
 - 1. Stay with 8.23 maf
 - 2. Balancing: 8.23 9.0 maf
 - 3. Equalization: >8.23 maf

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

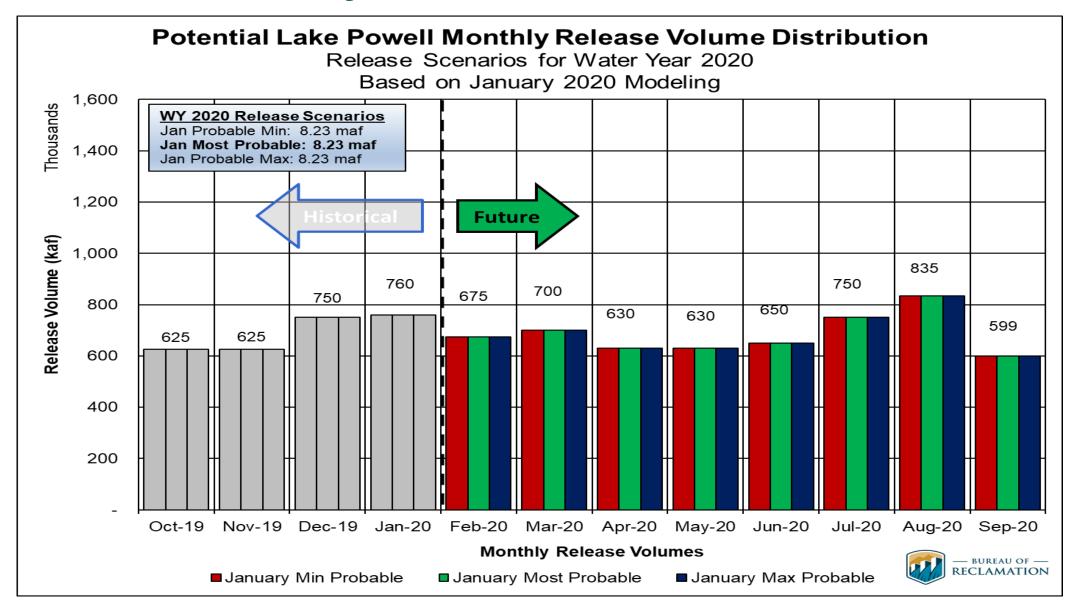


Release Scenarios under Interim Guidelines



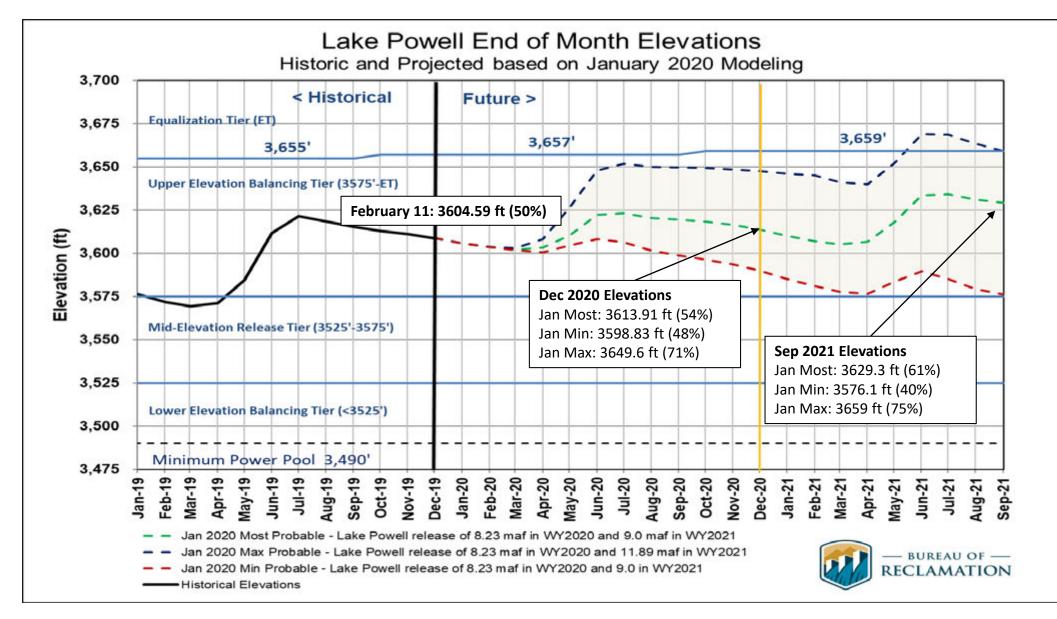


Powell Monthly Release Volumes



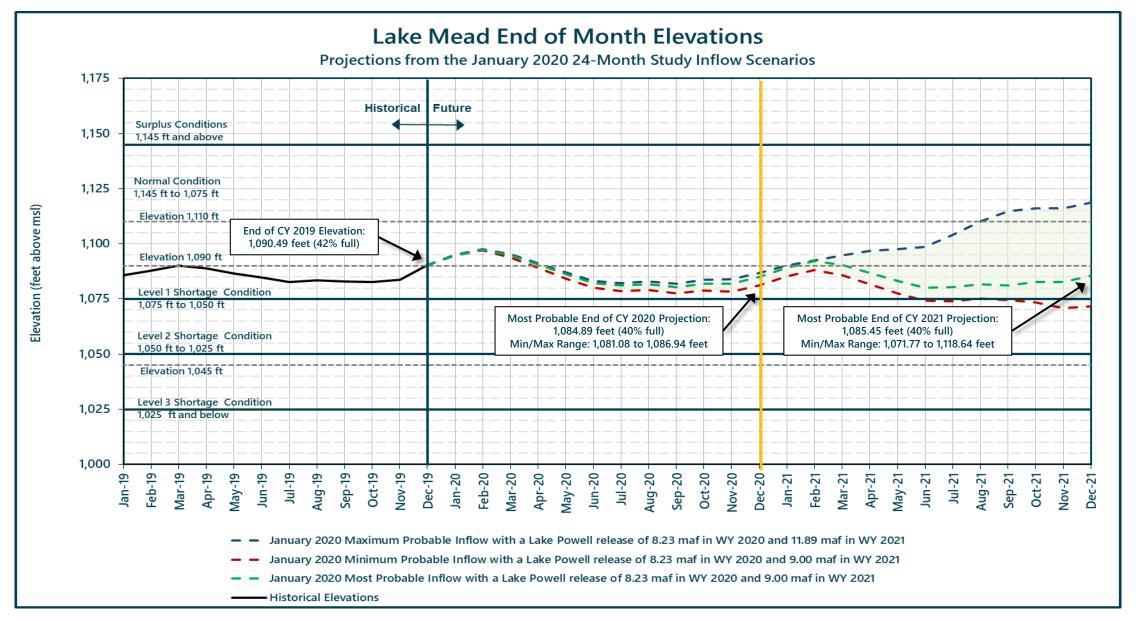


Powell Elevations





Mead Elevations





Glen Canyon Power Plant Planned Unit Outage Schedule for Water Year 2020

Unit Number	Oct 2019	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	
1													
2													
3													
4													
5													
6													
7													
8													
Units Available	5	6	6	6	6	5	8/6	6	6	6	6	6	
Capacity (cfs)	16,800	20,500	20,400	20,400	20,300	16,600	29,650*/20, 300	20,500	20,700	20,750	20,700	20,700	JAI M(
Capacity (kaf/month)	1,060	1,160	1,420	1,250	1,180	1,100	1,290	1,280	1,270	1,310	1,340	1,270	J∆ M
Max (kaf) 1	625	625	750	760	675	700	630	630	650	750	835	599	8
Most (kaf) ²	625	625	750	760	675	700	630	630	650	750	835	599	8
Min (kaf) 1	625	625	750	760	675	700	630	630	650	750	835	599	8.
										(upo	dated 01-29-202	0)	

¹ Projected release, based on January 2020 MOST Probable Inflow Projections and 24-Month Study model runs



² Projected release, based on January 2020 Min and Max Probable Inflow Projections and 24-Month Study model runs

^{3 *}Dependent upon availability to shift regulation and reserves

Glen Canyon Power Plant Planned Unit Outage Schedule for Water Year 2021

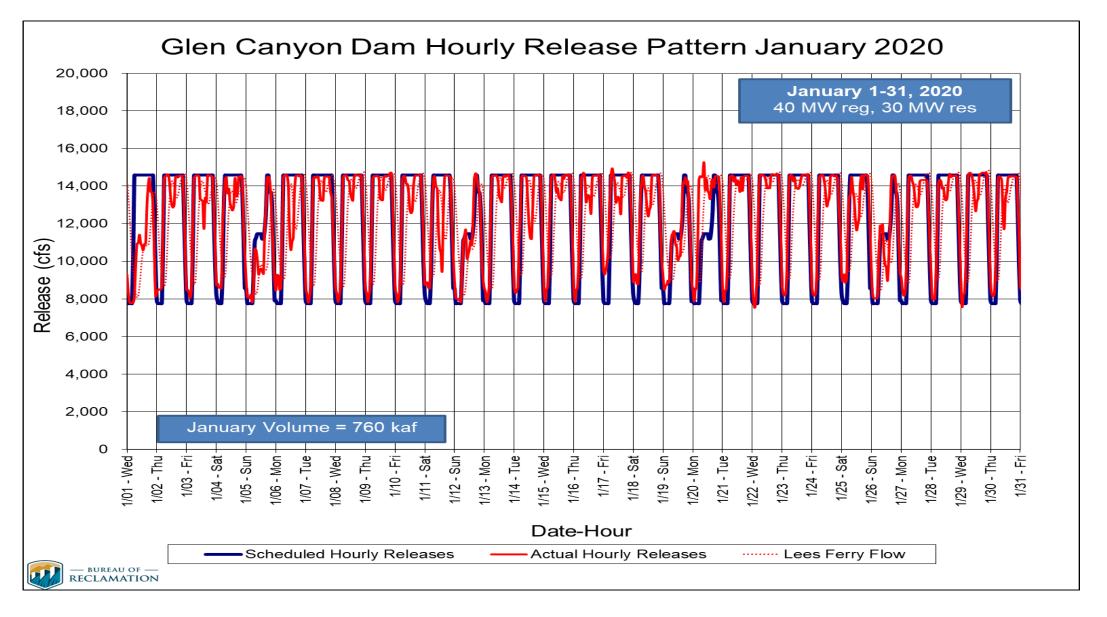
Unit Number	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	
1													
2													
3													
4													
5													
6													
7													
8													
Units Available	6	6	6	6	6	6	6	6	7	8	8	6	
Capacity (cfs)	20,650	20,600	20,550	20,450	20,400	20,350	20,400	20,650	24,800	28,650	28,550	20,900	
Capacity (kaf/month)	1,310	1,270	1,340	1,310	1,180	1,150	1,200	1,460	1,670	1,820	1,810	1,360	
Max (kaf) 1	640	640	720	760	680	1,150	1,200	1,100	1,100	1,350	1,380	1,174	
Most (kaf) ²	640	640	720	860	750	800	710	710	750	850	900	670	
Min (kaf) 1	640	640	720	860	750	800	710	710	750	850	900	670	
					_					(updated 01-29-2020)			

¹ Projected release, based on January 2020 Most Probable Inflow Projections and 24-Month Study model runs



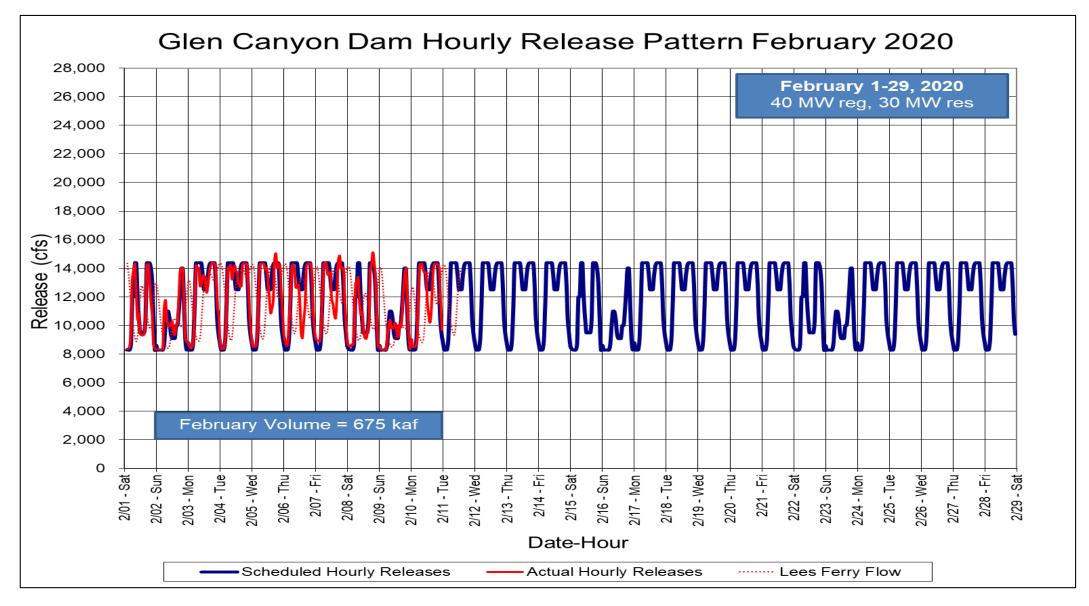
² Projected release, based on January 2020 Min and Max Probable Inflow Projections and 24-Month Study model runs

January 2020 Hourly Releases



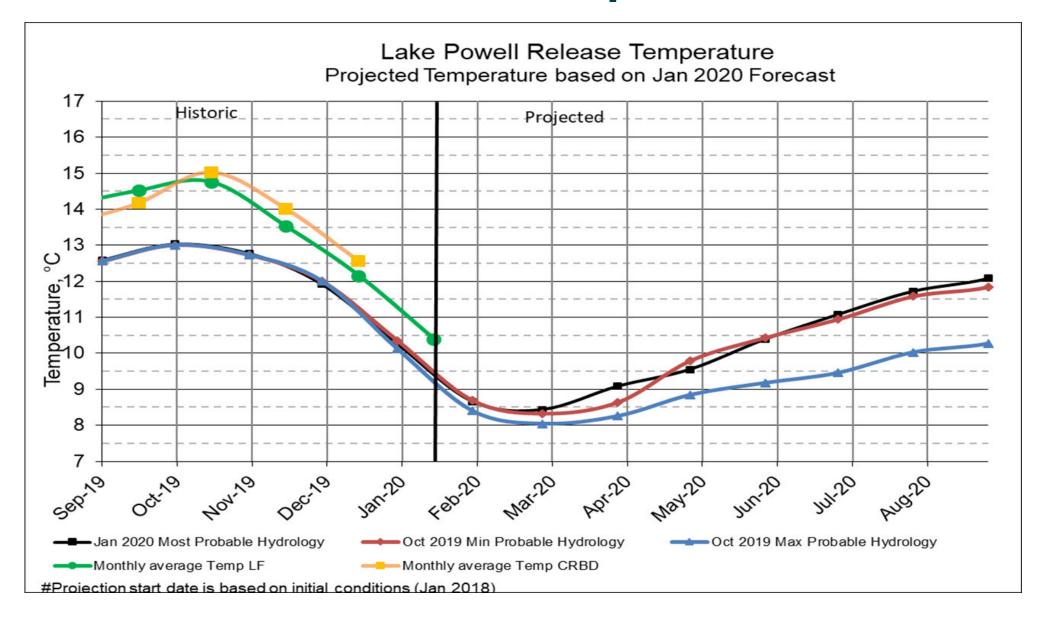


February 2020 Hourly Releases



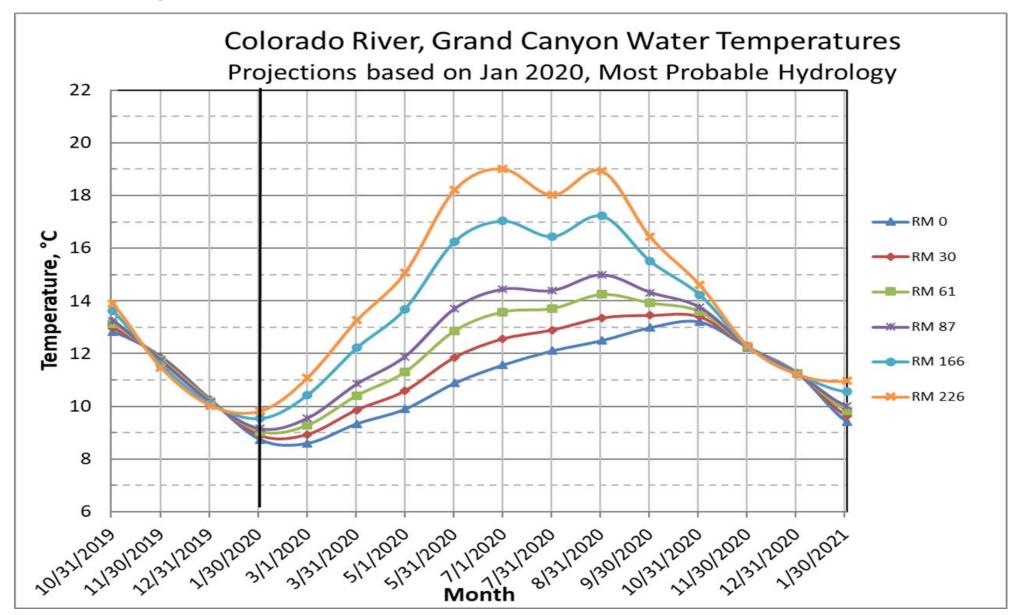


Lake Powell Release Temperatures



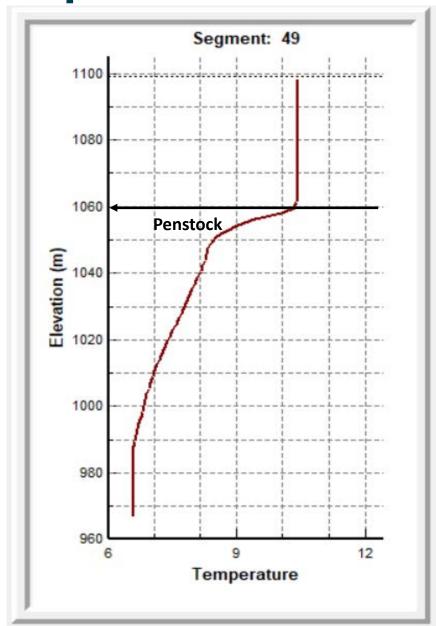


Glen Canyon Water Temperatures



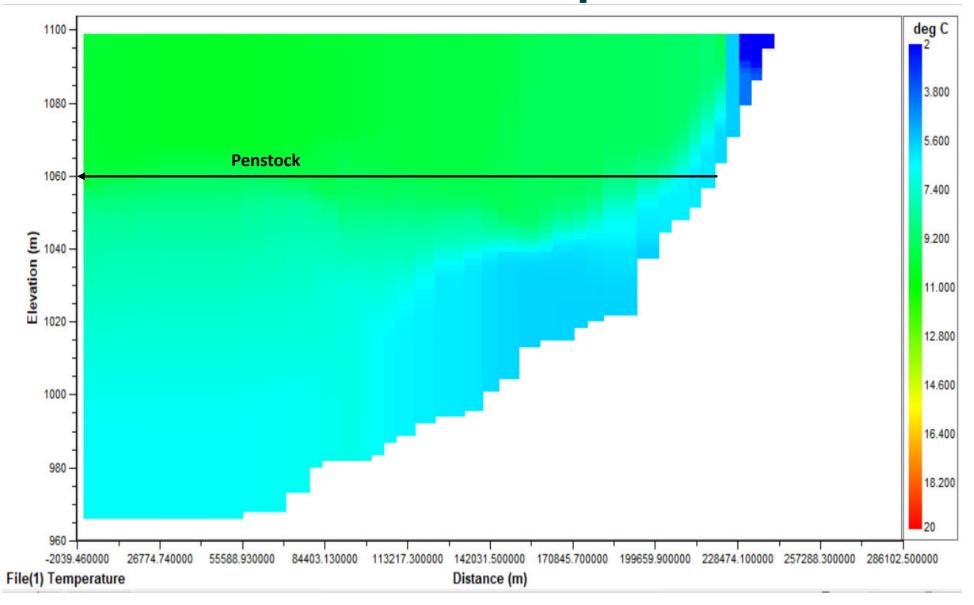


Lake Powell Temperature Profile



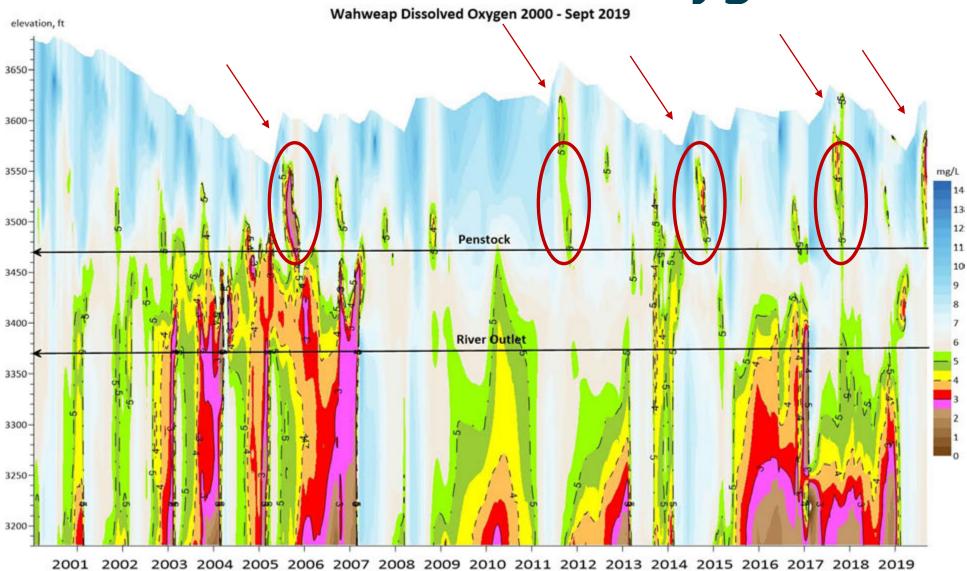


Lake Powell Reservoir Temperature Profile





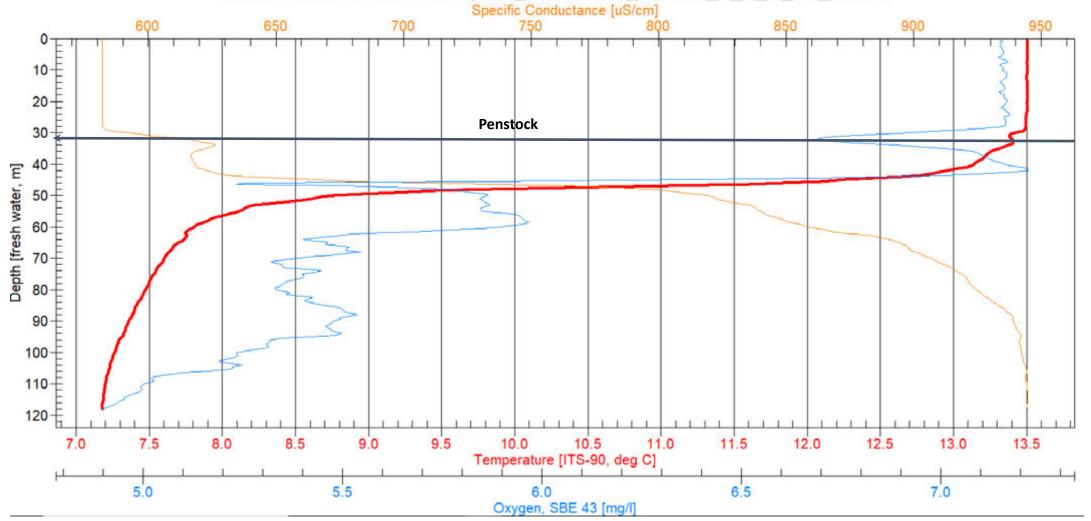
Historical Dissolved Oxygen





Powell December Forebay Information

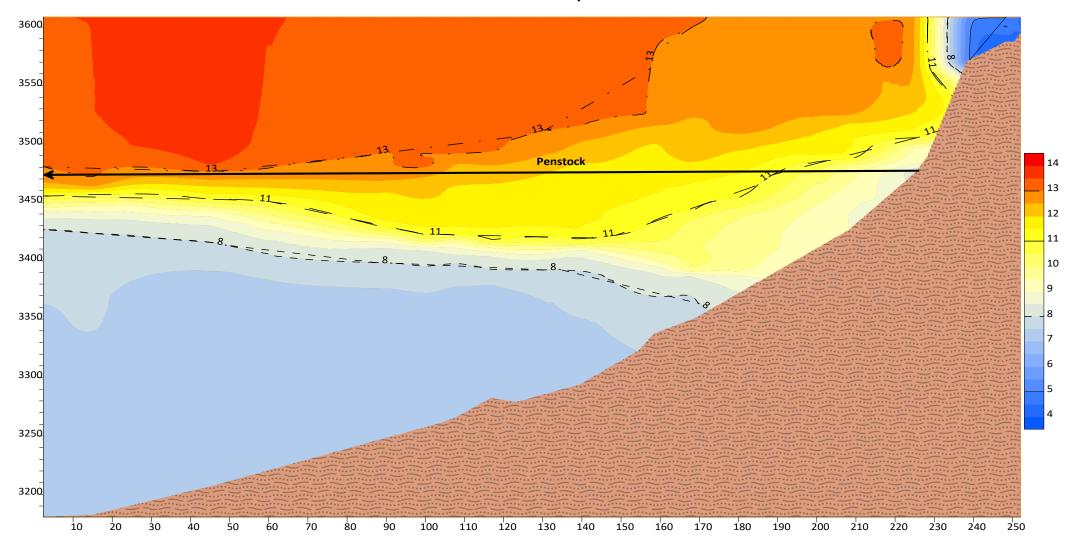






Powell Reservoir Temperature Profile for December

Lake Powell Temperature Dec 10-13 2019





Powell Reservoir Dissolved Oxygen Profile for December

Lake Powell Dec 10 - 13 2019 Dissolved Oxygen

