



— BUREAU OF —
RECLAMATION

Glen Canyon Monthly Operations Call

Basin Hydrology and Operations

April 23, 2026

Background

This briefing is being provided consistent with the provision in Attachment B - Section 1.1 of the LTEMP ROD which states:

“Annually, Reclamation will develop a hydrograph based on the characteristics above. Reclamation will seek consensus on the annual hydrograph through monthly operational coordination calls with governmental entities, and regular meetings of the GCDAMP Technical Working Group (TWG) and AMWG.

Reclamation will conduct monthly Glen Canyon Dam operational coordination meetings or calls with the DOI bureaus (USGS, NPS, FWS, and BIA), WAPA, and representatives from the Basin States and UCRC. The purpose of these meetings or calls is for the participants to share and seek information on Glen Canyon Dam operations. One liaison from each Basin State and from the UCRC may participate in the monthly operational coordination meetings or calls.”



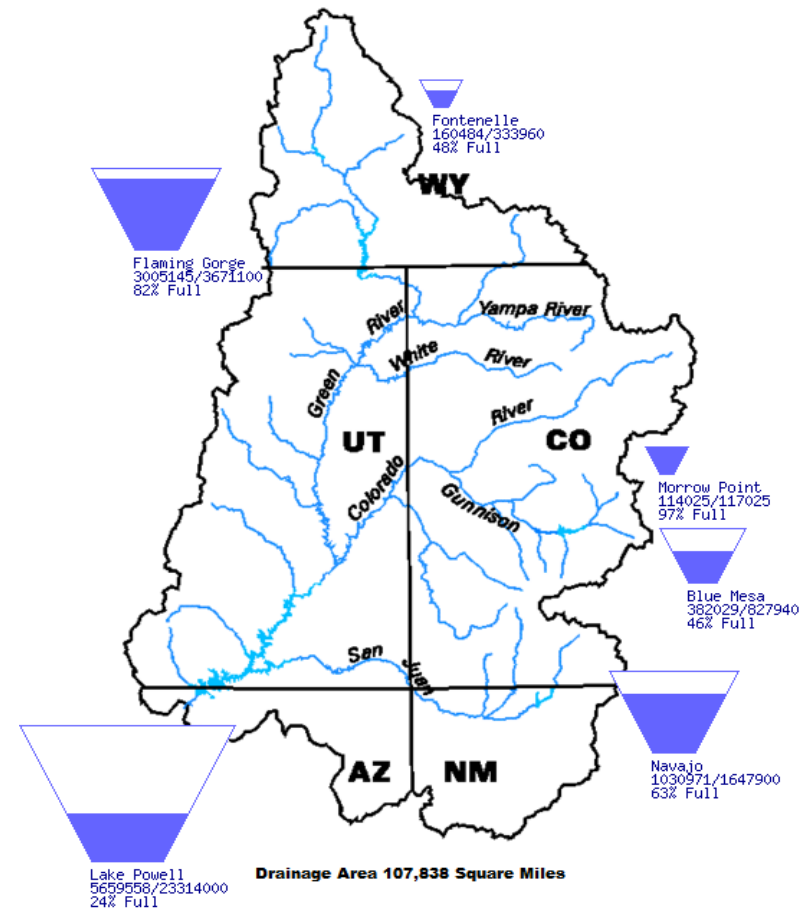
Upper Basin Storage

(as of April 21, 2026)

Reservoir	Percent Current Live Storage	Current Live Storage (maf)	Live Storage Capacity (maf)	Elevation (feet)
Fontenelle	48	0.16	0.33	6,480.37
Flaming Gorge	82	3.01	3.67	6,022.77
Blue Mesa	46	0.38	0.83	7,462.40
Navajo	63	1.03	1.65	6,037.15
Lake Powell	24	5.66	23.31	3,526.98
UC System Storage	35	10.37	29.93	
Total System Storage	36	20.94	58.48	

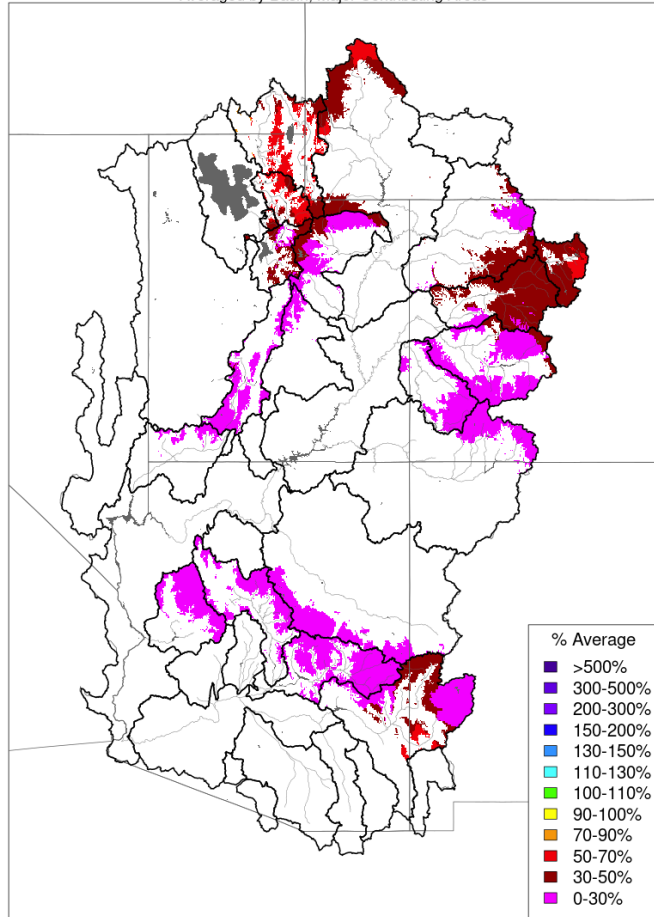
Data Current as of:
04/21/2026

Upper Colorado River Drainage Basin



Monthly Precipitation - March 2026

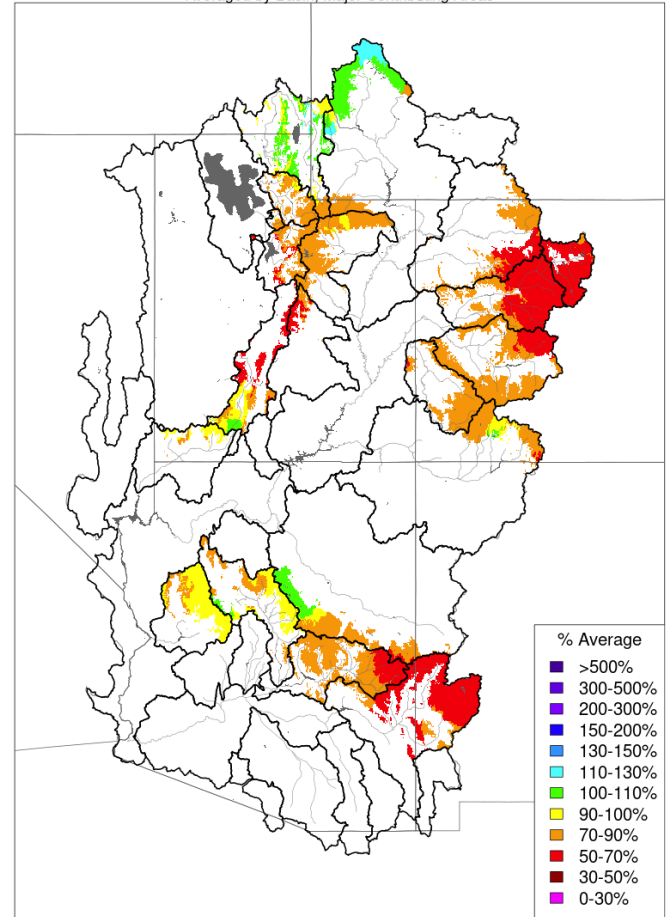
Averaged by Basin, Major Contributing Areas



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

Water Year Precipitation, October 2025 - March 2026

Averaged by Basin, Major Contributing Areas

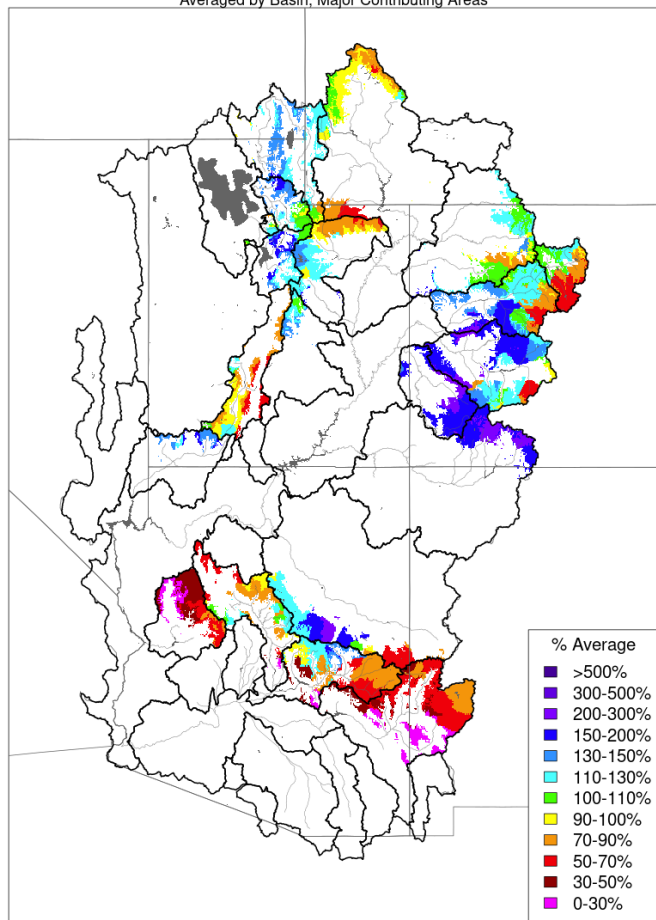


Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov



Month to Date Precipitation - April 22 2026

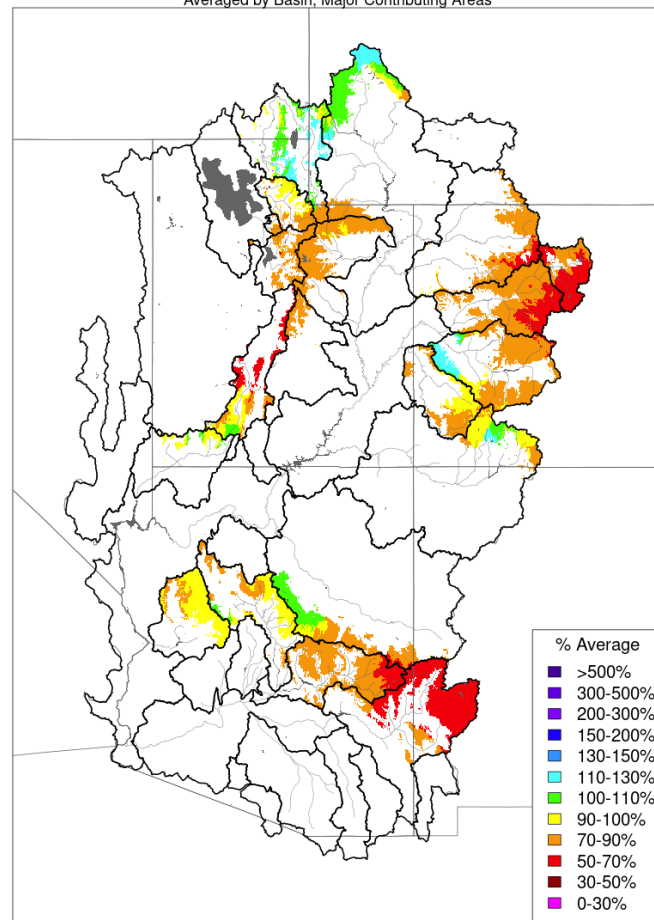
Averaged by Basin, Major Contributing Areas



Prepared by NOAA, Colorado Basin River Forecast Center
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Water Year to Date Precipitation, October 01 - April 22 2026

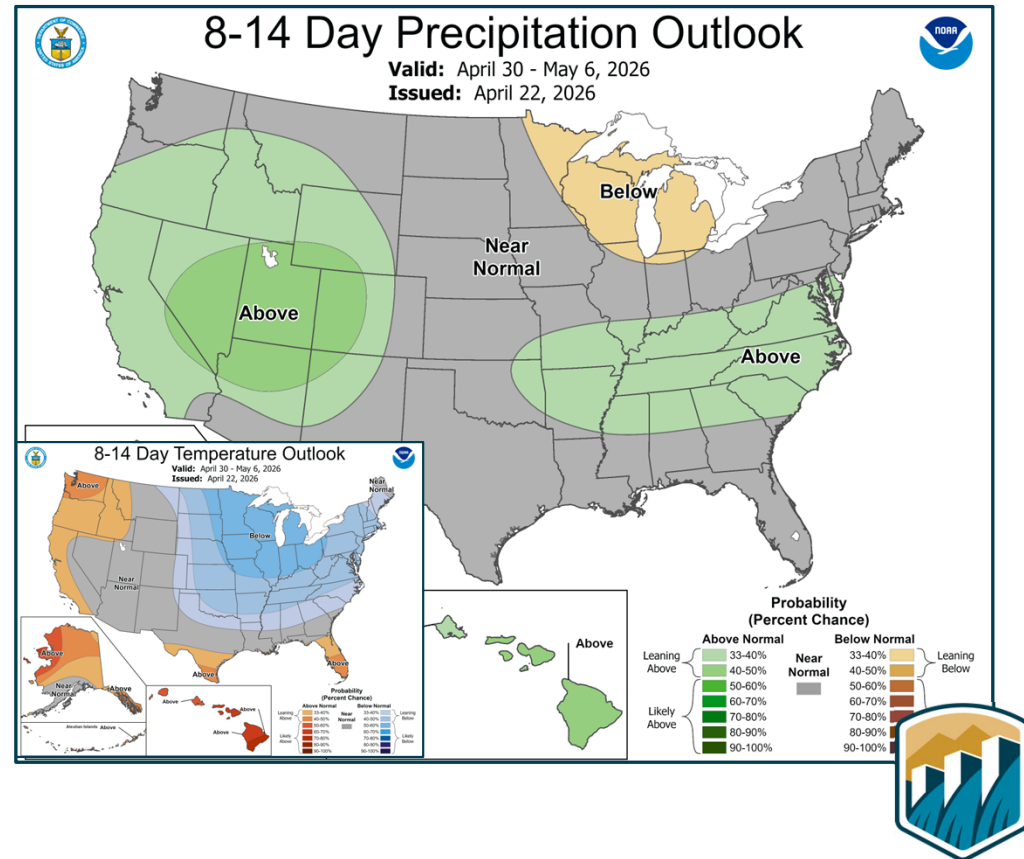
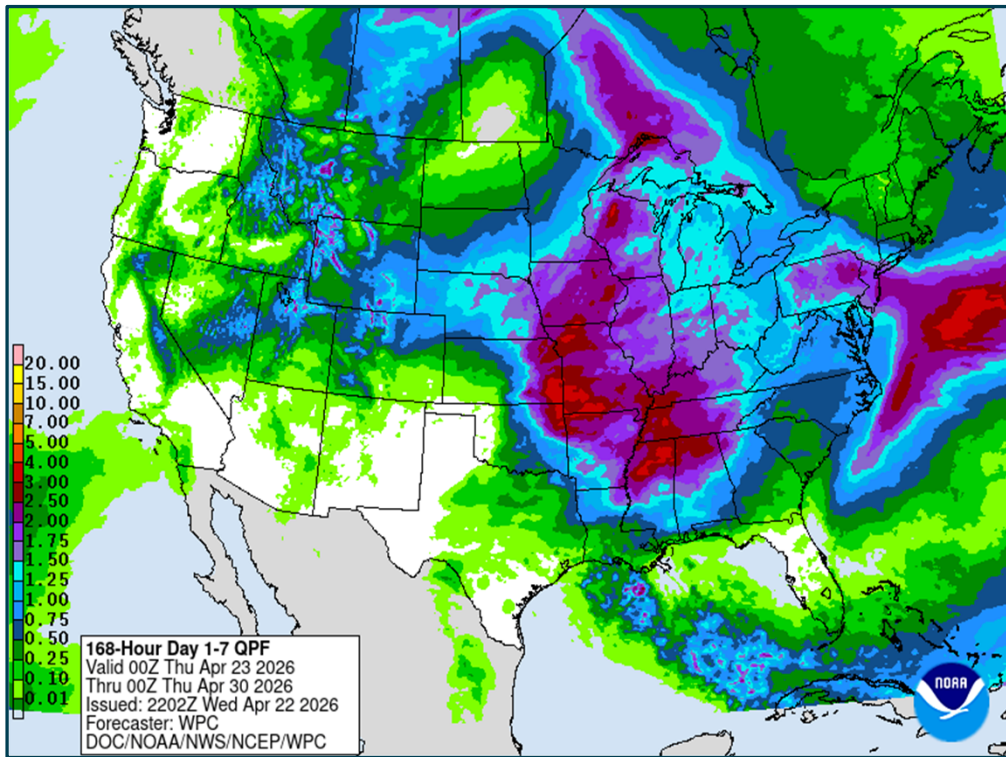
Averaged by Basin, Major Contributing Areas



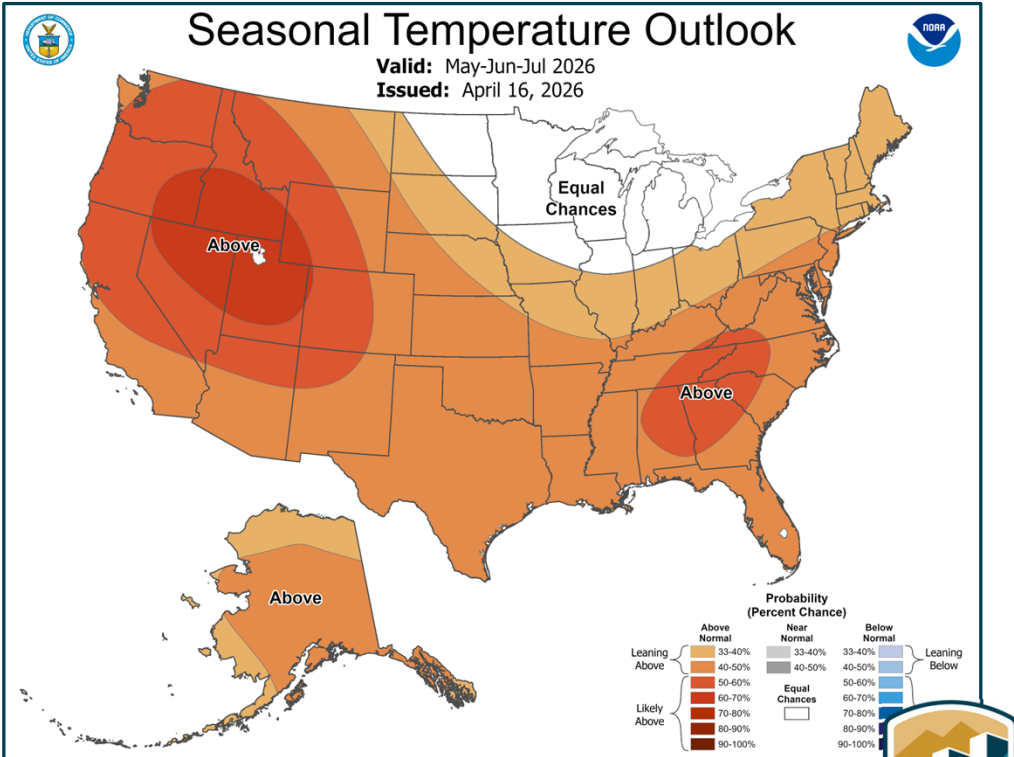
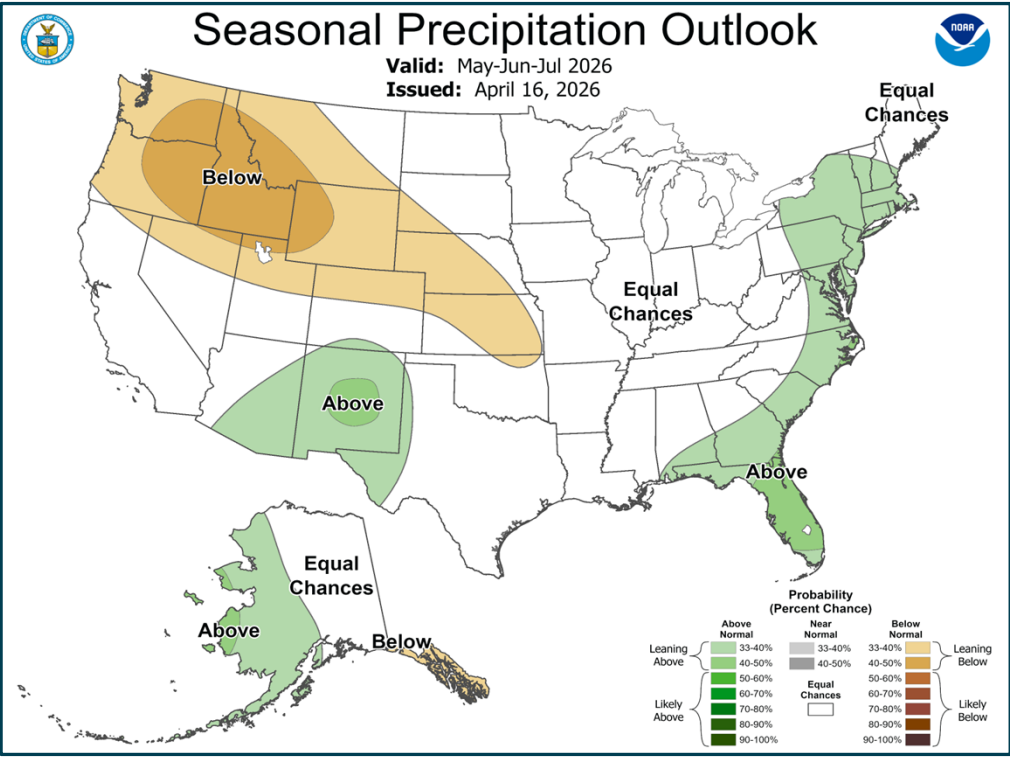
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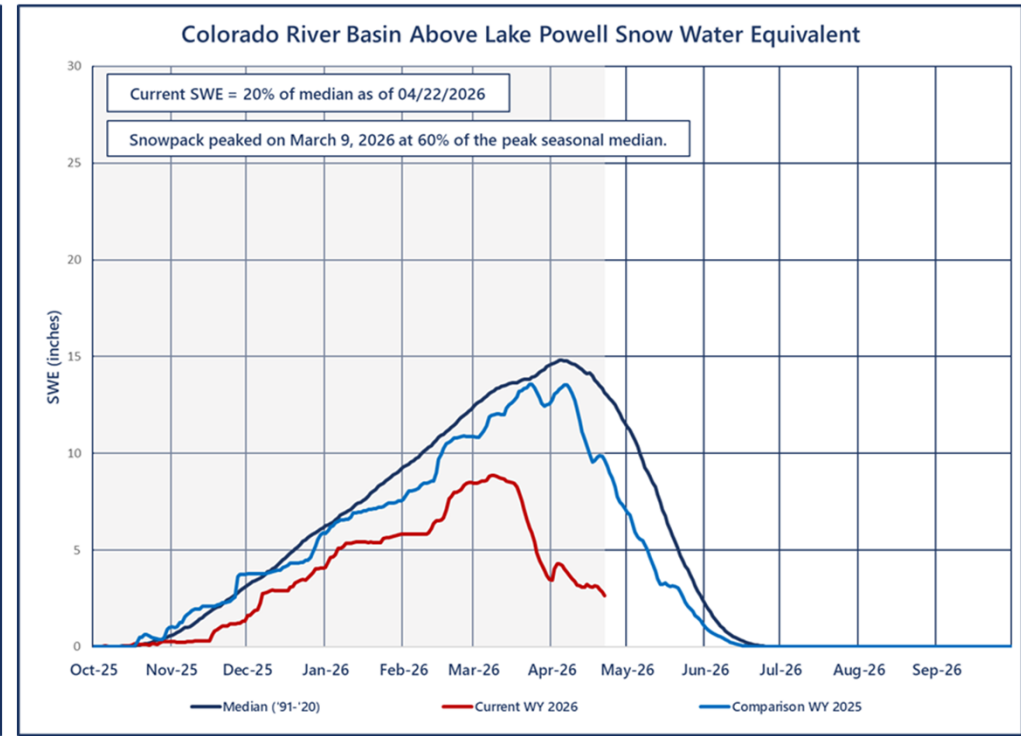
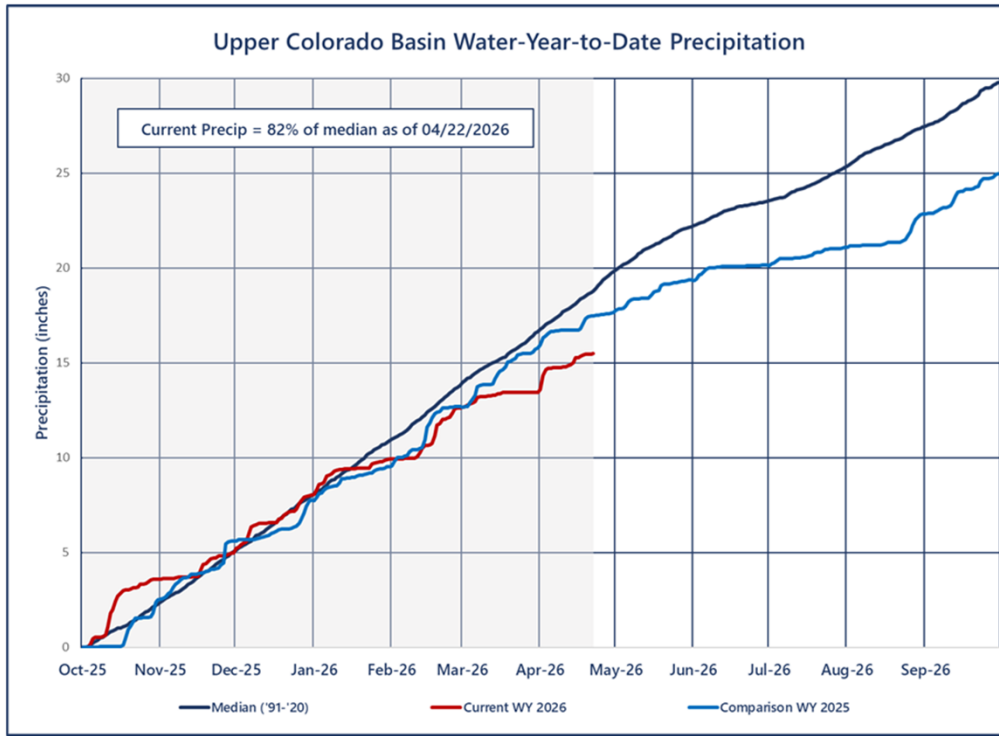
Weather Prediction Center and Climate Prediction Center Precipitation Forecasts



Seasonal Outlook

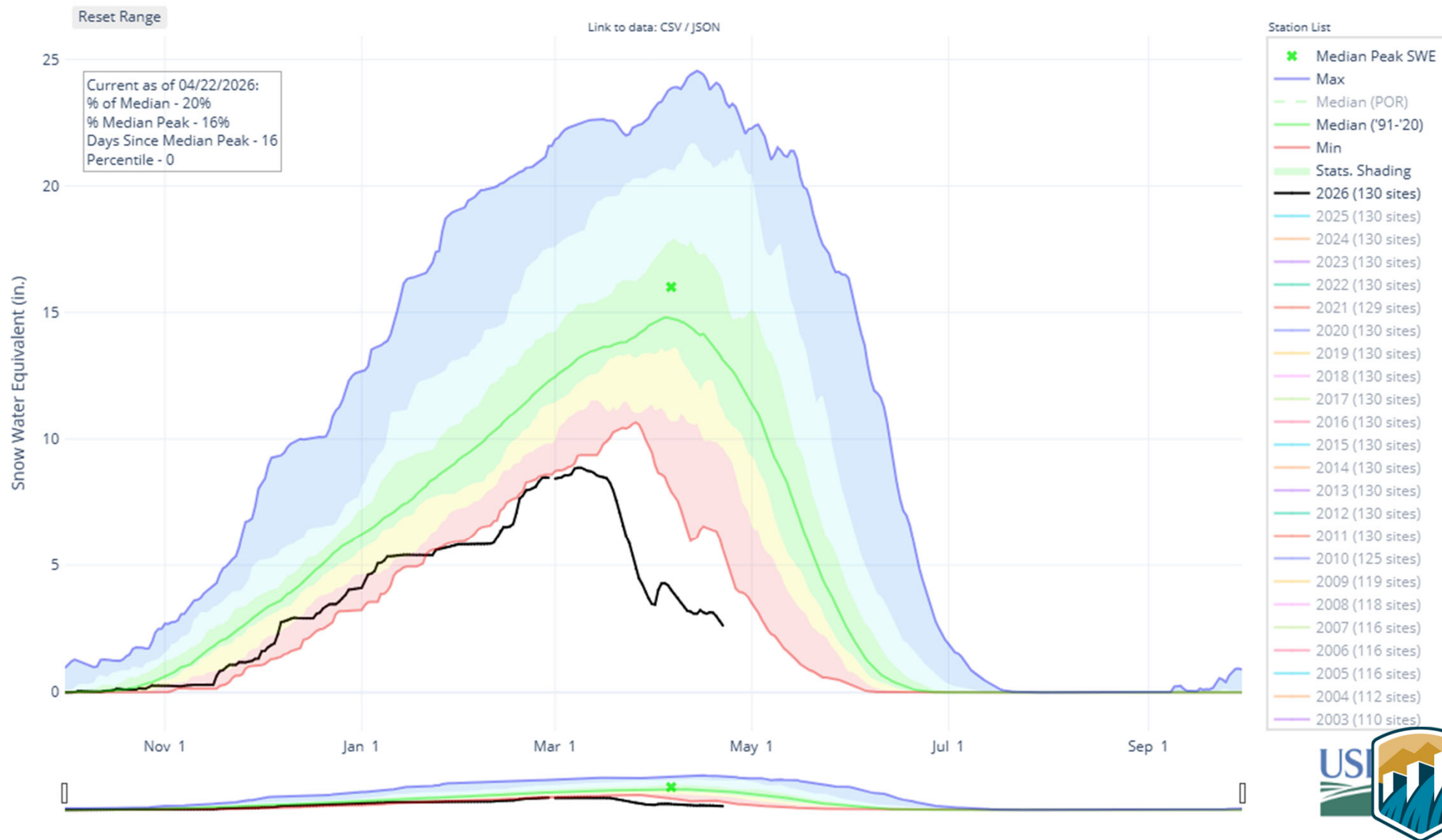


Upper Colorado Precipitation and SWE¹



¹Statistics are based on the 30-year period of record from 1991-2020.





Most Probable April Forecast Water Year 2026

April – July 2026
Forecasted Unregulated Inflow
as of April 2, 2026

Reservoir	Inflow (kaf)	Change from Mar	Percent of Avg ¹
Fontenelle	440	-105	60
Flaming Gorge	490	-125	51
Blue Mesa	240	-80	38
Navajo	173	-107	28
Powell	1,400	-900	22

Powell Midmonth Forecast: 900 KAF, -500 KAF

Water Year 2026
Unregulated Inflow Forecast
as of April 2, 2026

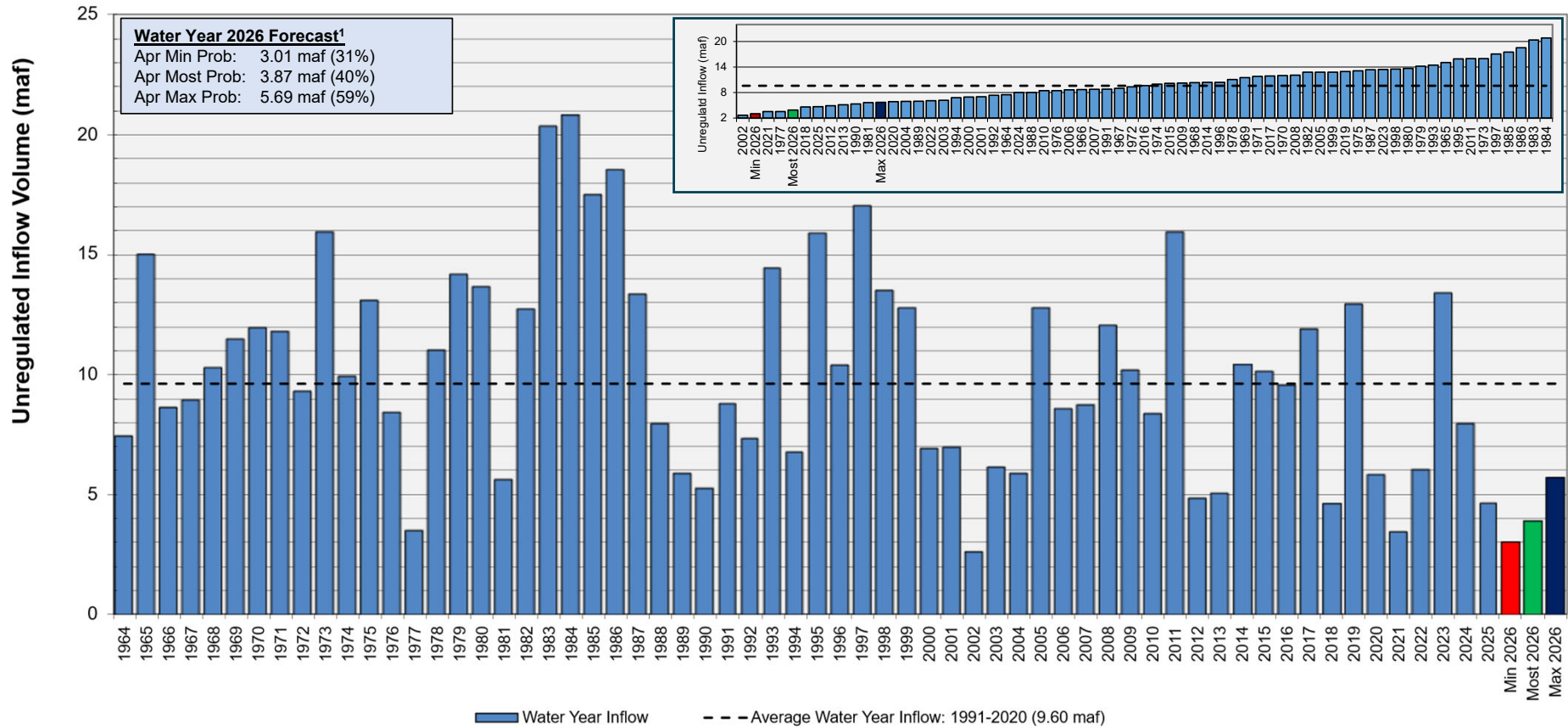
Reservoir	Inflow (kaf)	Change from Mar	Percent of Avg ¹
Fontenelle	726	-126	68
Flaming Gorge	806	-163	57
Blue Mesa	479	-86	53
Navajo	598	-73	66
Powell	3,871	-1,080	40

Powell Midmonth Forecast: 3,371 KAF, -500 KAF

¹Water year statistics are based on the 30-year period from 1991-2020

Lake Powell Water Year Unregulated Inflow

as of April 2, 2026
Comparison with History



¹Water Year statistics are based on the 30-year period of record from 1991-2020.





Upper Colorado Basin

Hydrology and Operations
Projections Based on
April 2026
24-Month Studies



Upper Basin Reservoir Operations

Water Year 2026 Modeling Assumptions in April 2026 24-Month Study

- Lake Powell will be operated consistent with the 2007 Interim Guidelines, the Upper Basin Drought Response Operations Agreement, and Upper Basin Records of Decision
- Lake Powell WY 2026 will operate in the Mid-Elevation Release Tier with a planned release of 7.48 maf, subject to SEIS ROD Section 6.E. provision
- Includes the Supplemental Environmental Impact Statement for Near-term Colorado River Operations Record of Decision (2024 Near-term SEIS, signed May 6, 2024)
- Includes the Glen Canyon Dam Long-Term Experimental and Management Plan Final Supplemental Environmental Impact Statement (2024 LTEMP SEIS ROD, signed July 3, 2024)



Lake Powell & Lake Mead Operational Table

Lake Powell Operational Tier Determination Run (aka "Exhibit Run")
with an 8.23 maf Release¹

Lake Powell			Lake Mead		
Elevation (feet)	Operation According to the Interim Guidelines	Live Storage (maf)	Elevation (feet)	Operation According to the Interim Guidelines	Live Storage (maf)
3,700	Equilization Tier Equalize, avoid spills, or release 8.23 maf	23.31	1,220	Flood Control Surplus or Quantified Surplus Condition Deliver > 7.5 maf	26.18
3,636-3,666 (2008-2026)	Upper Elevation Balancing Tier Release 8.23 maf If Lake Mead < 1,075 feet, balance contents with a min/max release of 7.0 and 9.0 maf	14.65-18.36 (2008-2026)	1,200 (approx.)	Domestic Surplus or ICS Surplus Condition Deliver > 7.5 maf	23.14 (approx.)
3,575	Mid-Elevation Release Tier Release 7.48 maf; if Lake Mead < 1,025 feet; release 8.23 maf	8.90	1,145	Normal or ICS Surplus Condition Deliver ≥ 7.5 maf	16.18
3,532.15 ft Jan 1, 2026 Projection	If any minimum probable Lake Powell elevation projection shows Lake Powell < 3,500 feet, begin planning to reduce releases to no less than 6.0 maf		1,075	Shortage Condition Deliver 7.167 maf	1,055.88 ft Jan 1, 2026 Projection
3,525	Lower Elevation Balancing Tier Balance contents with a min/max release of 7.0 and 9.5 maf If any minimum probable Lake Powell elevation projection shows Lake Powell < 3,500 feet, begin planning to reduce releases to no less than 6.0 maf	5.55	1,050	Shortage Condition Deliver 7.083 maf	
3,500	The Secretary reserves the right to operate Reclamation facilities to protect the Colorado River system if hydrologic conditions require such action as described in Sections 6 and 7(D) in the 2007 Interim Guidelines ROD	4.22	1,025	Shortage Condition Deliver 7.0 maf	5.98
3,370		0	1,000	Further measures may be undertaken	4.48
			895		0

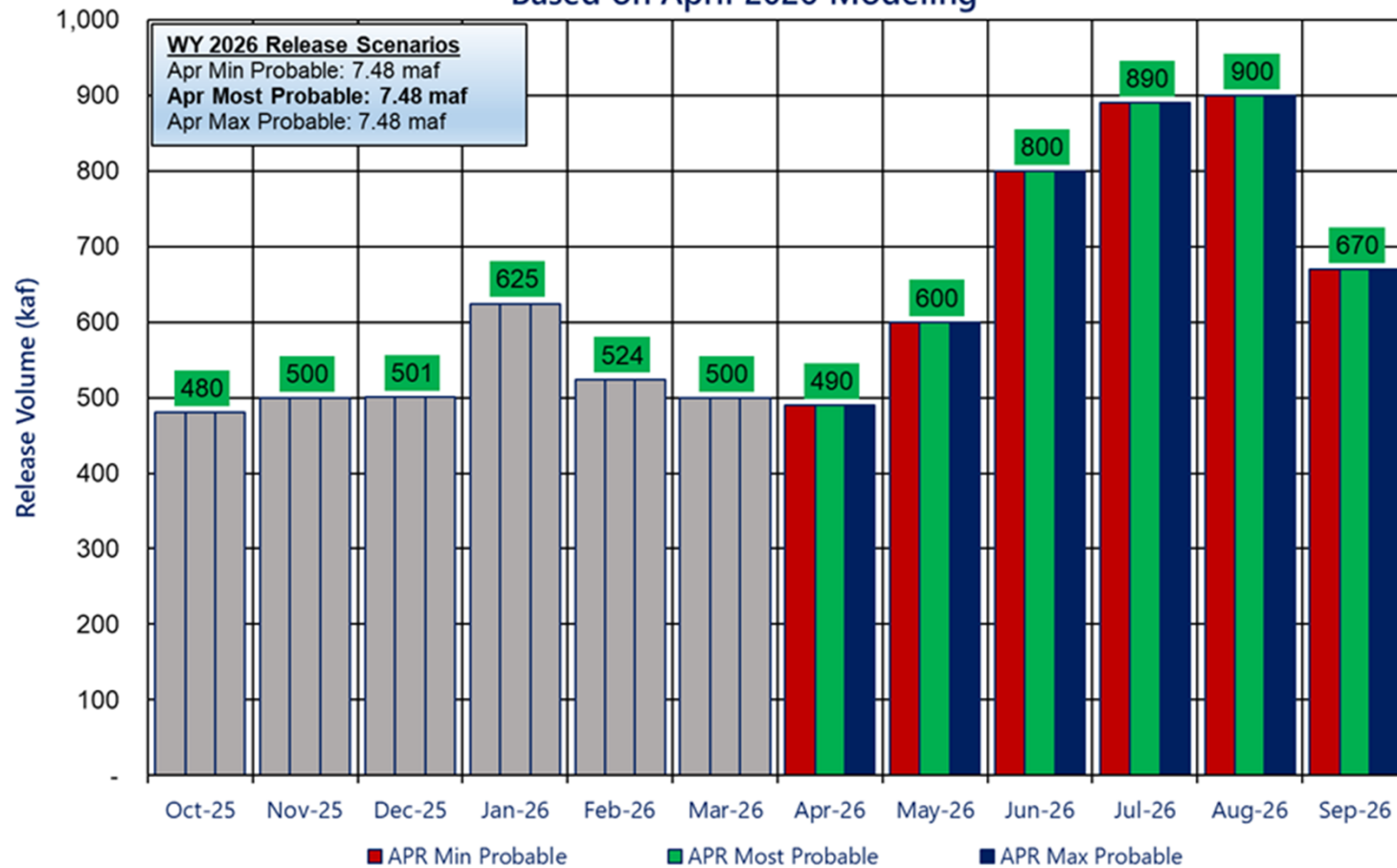


¹ Lake Powell and Lake Mead operational tier determinations will be documented in the draft 2026 AOP.

Potential Lake Powell Monthly Release Volume Distribution

Release Scenarios for Water Year 2026

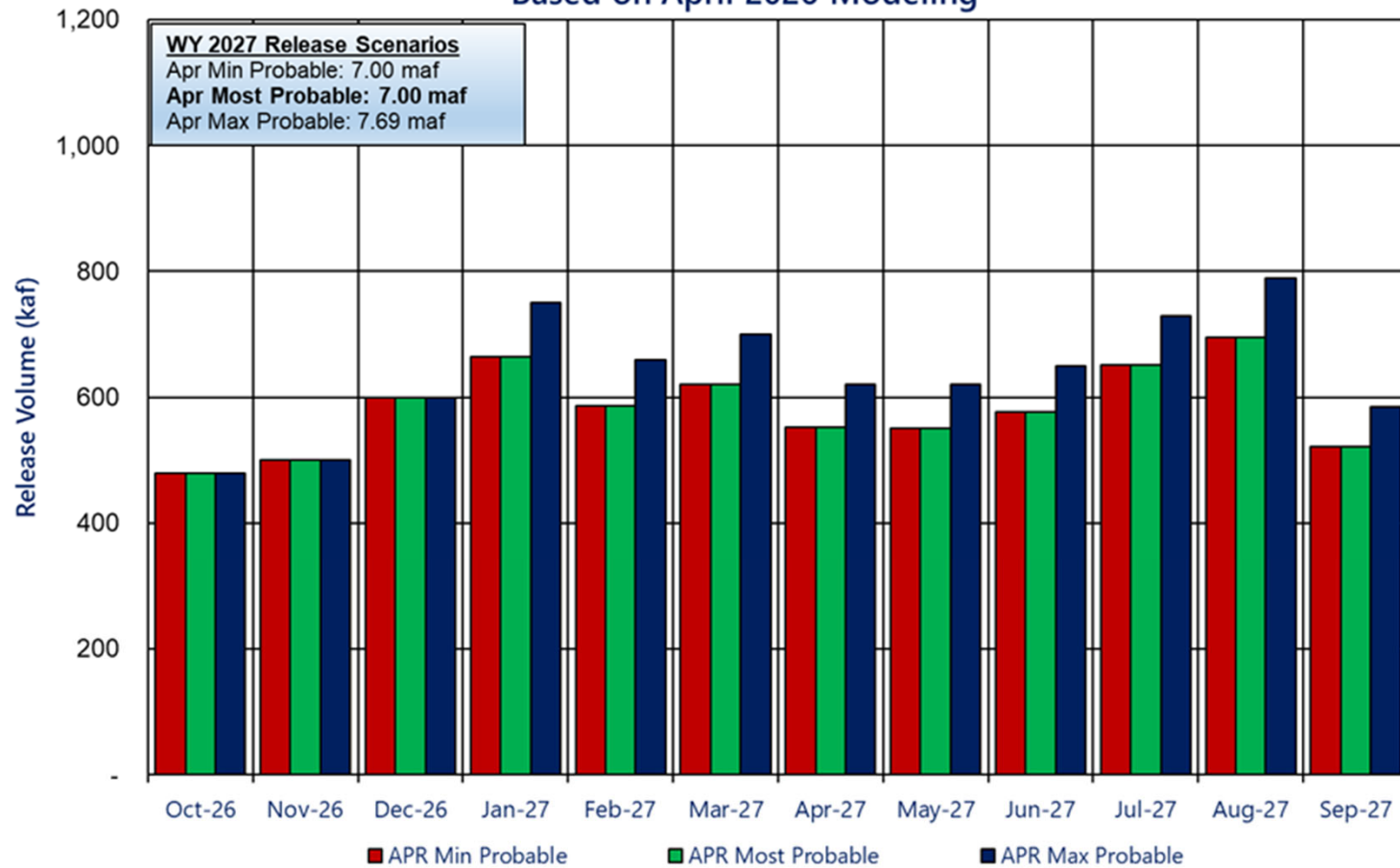
Based on April 2026 Modeling



Potential Lake Powell Monthly Release Volume Distribution

Release Scenarios for Water Year 2027

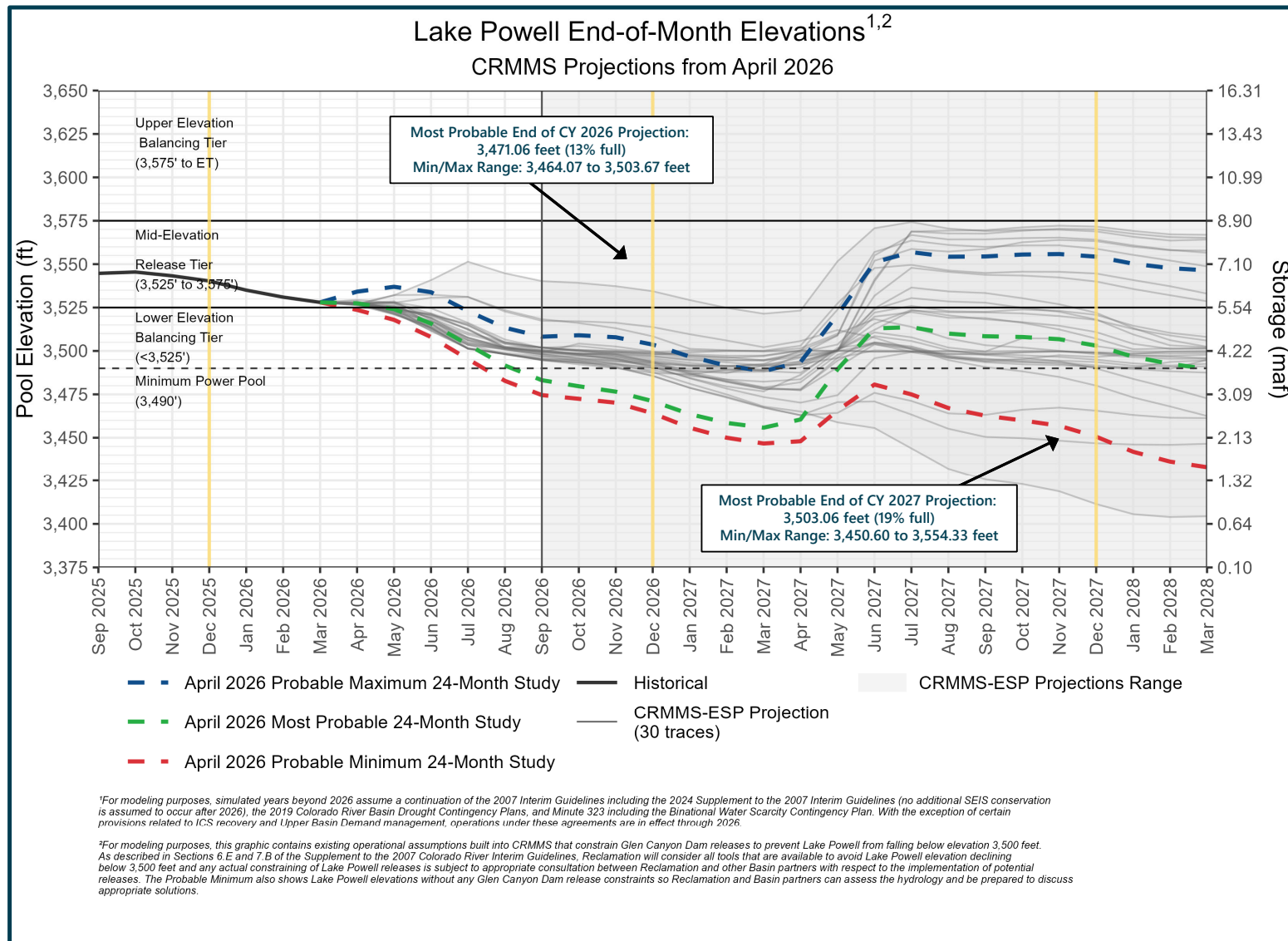
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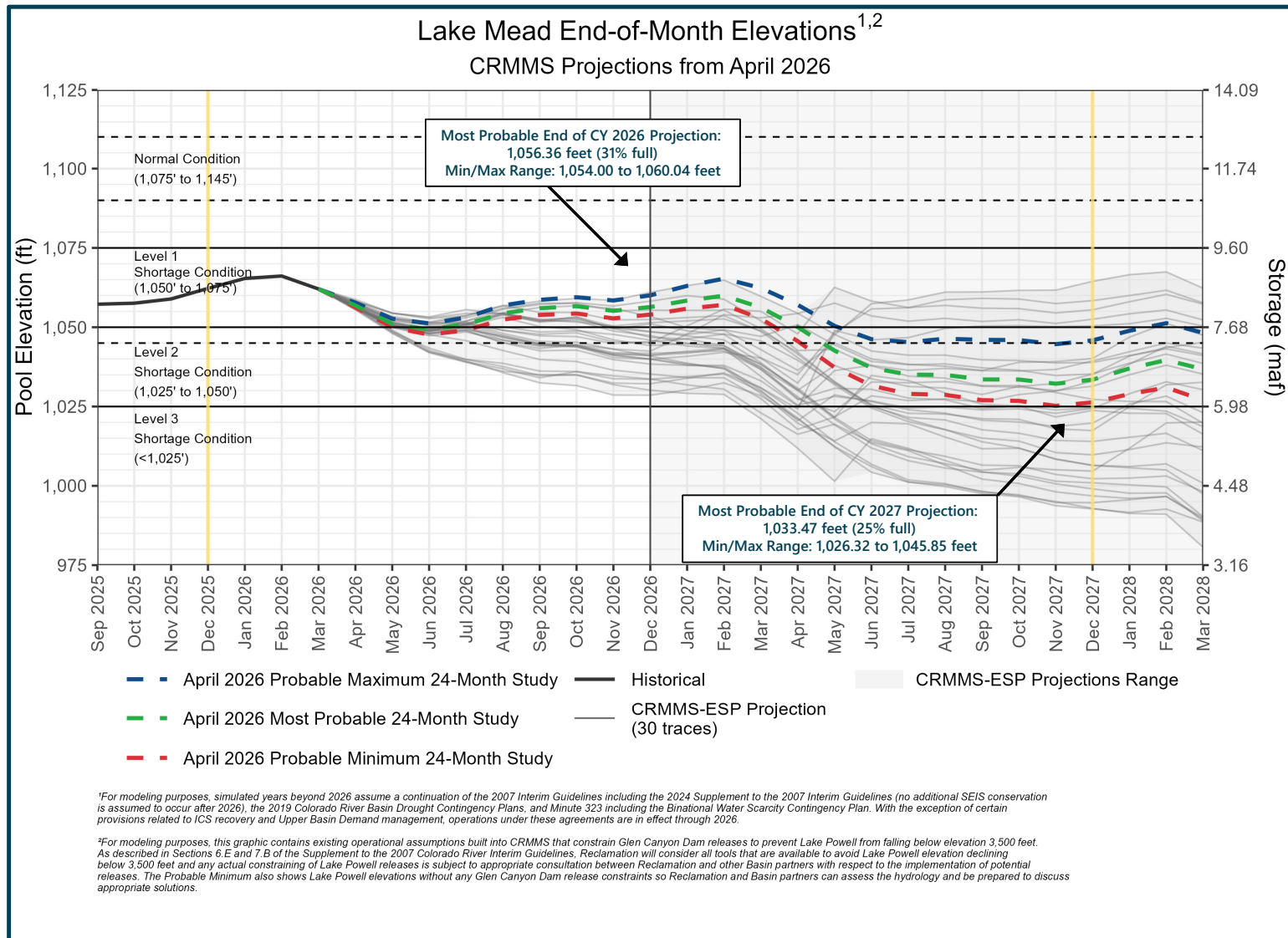


Reclamation Operational Modeling Model Comparison

	<i>Colorado River Mid-term Modeling System (CRMMS)</i>		<i>CRSS</i>
	<i>24-Month Study Mode (Manual Mode)</i>	<i>Ensemble Mode (Rule-based Mode)</i>	
Primary Use	AOP tier determinations and projections of current conditions	Risk-based operational planning and analysis	Long-term planning, comparison of alternatives
Simulated Reservoir Operations	Operations input manually	Rule-driven operations	
Probabilistic or Deterministic	Deterministic – single hydrologic trace	Deterministic OR Probabilistic 30 (or more) hydrologic traces	Probabilistic – 100+ traces
Time Horizon (years)			
Upper Basin Inflow	Unregulated forecast, 1 trace	Unregulated ESP forecast, 30 traces	Natural flow; historical, paleo, or climate change hydrology
Upper Basin Demands	Implicit, in unregulated inflow forecast		Explicit, 2016 UCRC assumptions
Lower Basin Demands	Official approved or operational		Developed with LB users









Upper Colorado Basin

Hydropower Maintenance



Glen Canyon Power Plant Planned Unit Outage Schedule for Water Year 2026

Unit Number	Oct 2025	Nov 2025	Dec 2025	Jan 2026	Feb 2026	Mar 2026	Apr 2026	May 2026	Jun 2026	Jul 2026	Aug 2026	Sep 2026	
1													
2													
3													
4													
5													
6													
7													
8													
Units Available	6	6	6	6	5	6	5	5	8	8	8	6	
Penstock Capacity (cfs)							16,000	16,400	17,600	23,600	22,700	0	APR MOST ²
Penstock Capacity (kaf/month)							950	1,010	1,050	1,450	1,400	0	APR MOST
Max (kaf) ¹	480	500	501	625	525	500	490	600	800	890	900	669	7.48 maf
Most (kaf) ¹	480	500	501	625	525	500	490	600	800	890	900	669	7.48 maf
Min (kaf) ¹	480	500	501	625	525	500	490	600	800	890	900	669	7.48 maf
										(updated 4/22/2026)			

¹ Projected release based on April 2026 24-Month Study for the minimum, most, and maximum probable scenarios.

² Dependent upon availability to shift contingency regulation, which will increase capacity by 30-40MW at current efficiency.

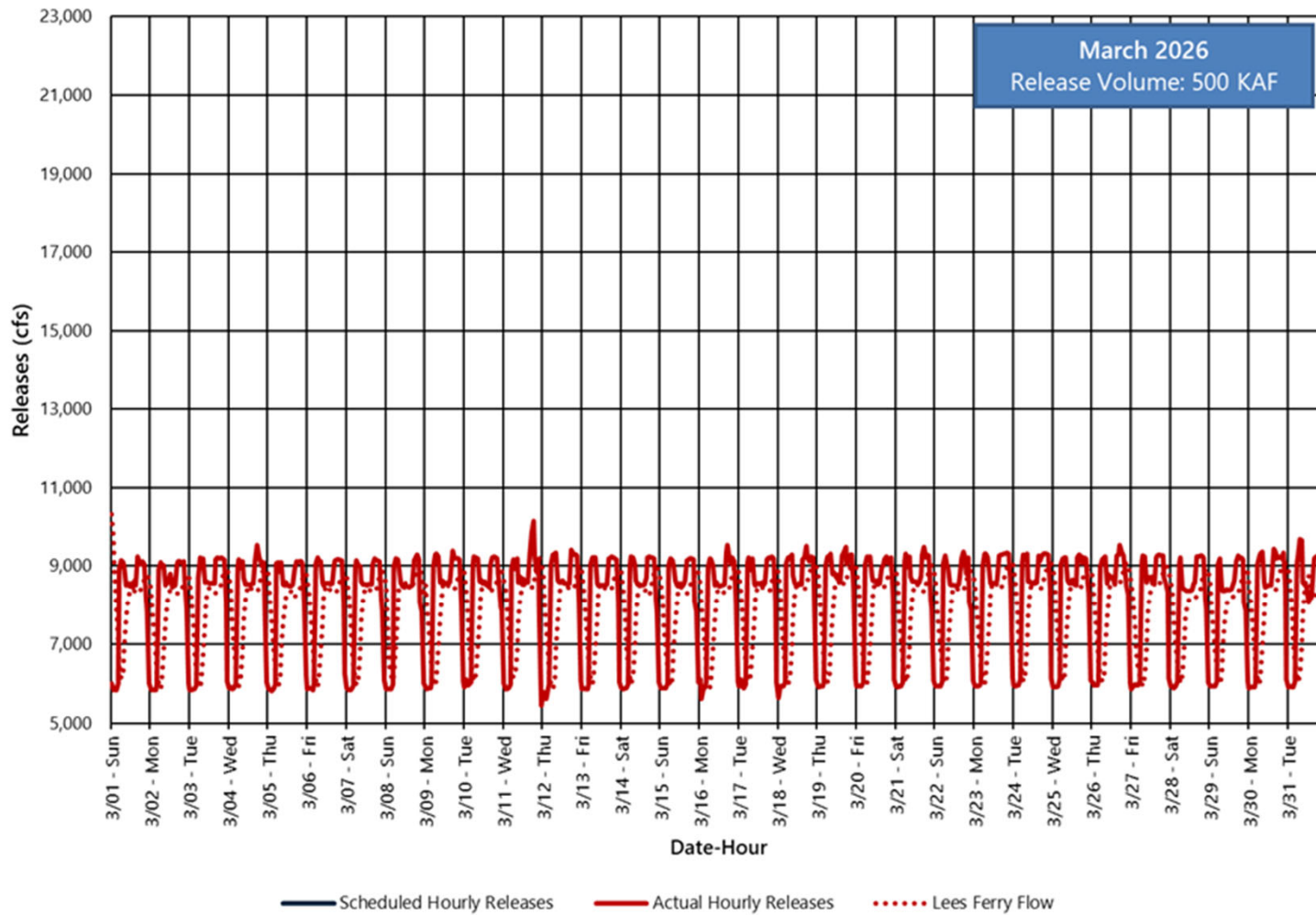
Glen Canyon Power Plant Planned Unit Outage Schedule for Water Year 2027

Unit Number	Oct 2026	Nov 2026	Dec 2026	Jan 2027	Feb 2027	Mar 2027	Apr 2027	May 2027	Jun 2027	Jul 2027	Aug 2027	Sep 2027	
1													
2													
3													
4													
5													
6													
7													
8													
Units Available	6	8	8	8	6	8	7	7	8	8	8	6	
Penstock Capacity (cfs)	0	0	0	0	0	0	0	0	24,000	24,100	23,500	17,300	APR MOST ²
Penstock Capacity (kaf/month)	0	0	0	0	0	0	0	0	1,430	1,480	1,440	1,030	APR MOST
Max (kaf) ¹	480	500	600	750	660	700	620	620	650	730	790	585	7.69 maf
Most (kaf) ¹	480	500	600	664	587	620	552	550	577	652	696	522	7.00 maf
Min (kaf) ¹	480	500	600	664	587	620	552	550	577	652	696	522	7.00 maf
										(updated 4/22/2026)			

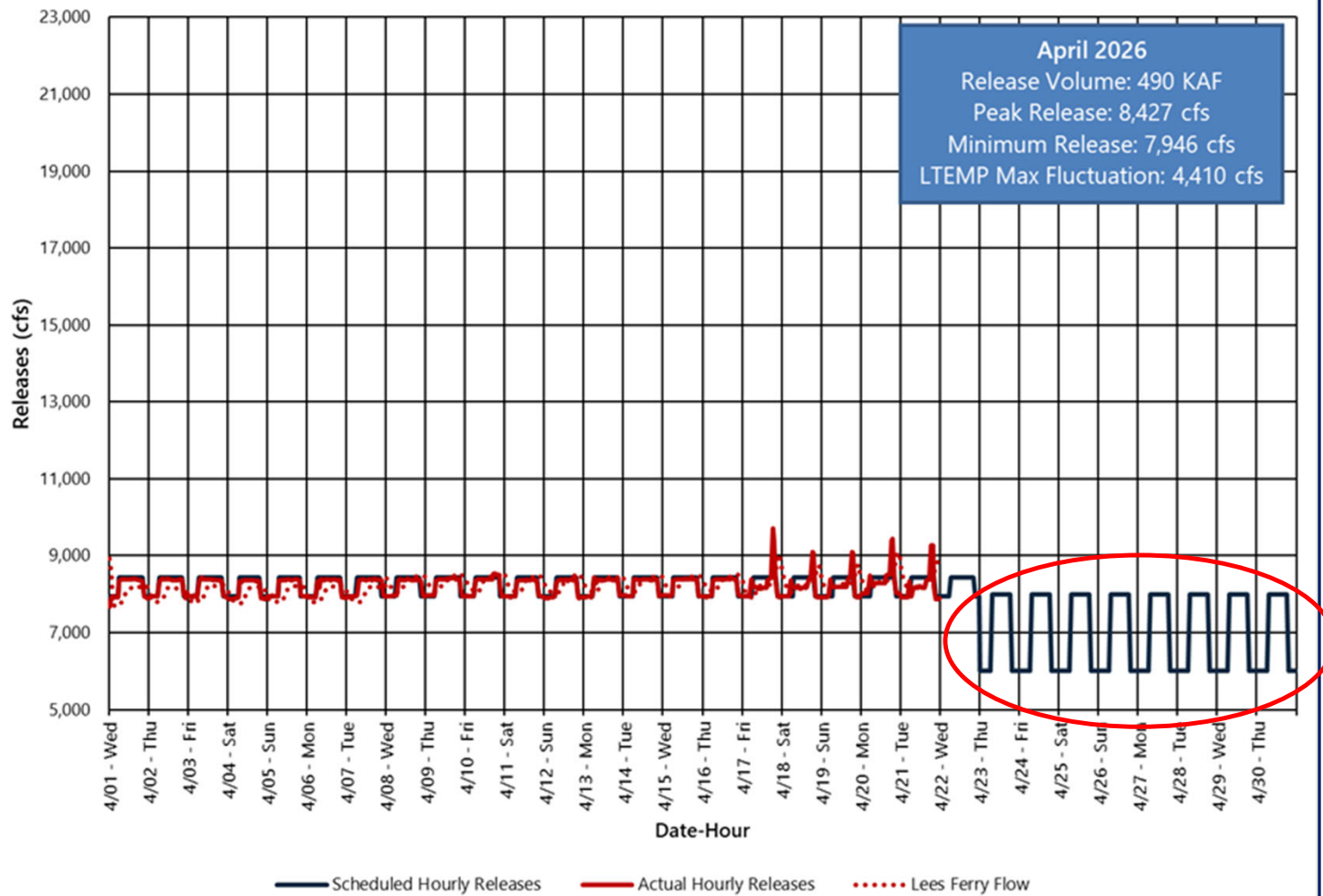
¹ Projected release based on April 2026 24-Month Study for the minimum, Most, and maximum probable scenarios.

² Dependent upon availability to shift contingency regulation, which will increase capacity by 30-40MW at current efficiency.

Glen Canyon Dam Hourly Release Pattern - March 2026



Glen Canyon Dam Hourly Release Pattern - April 2026





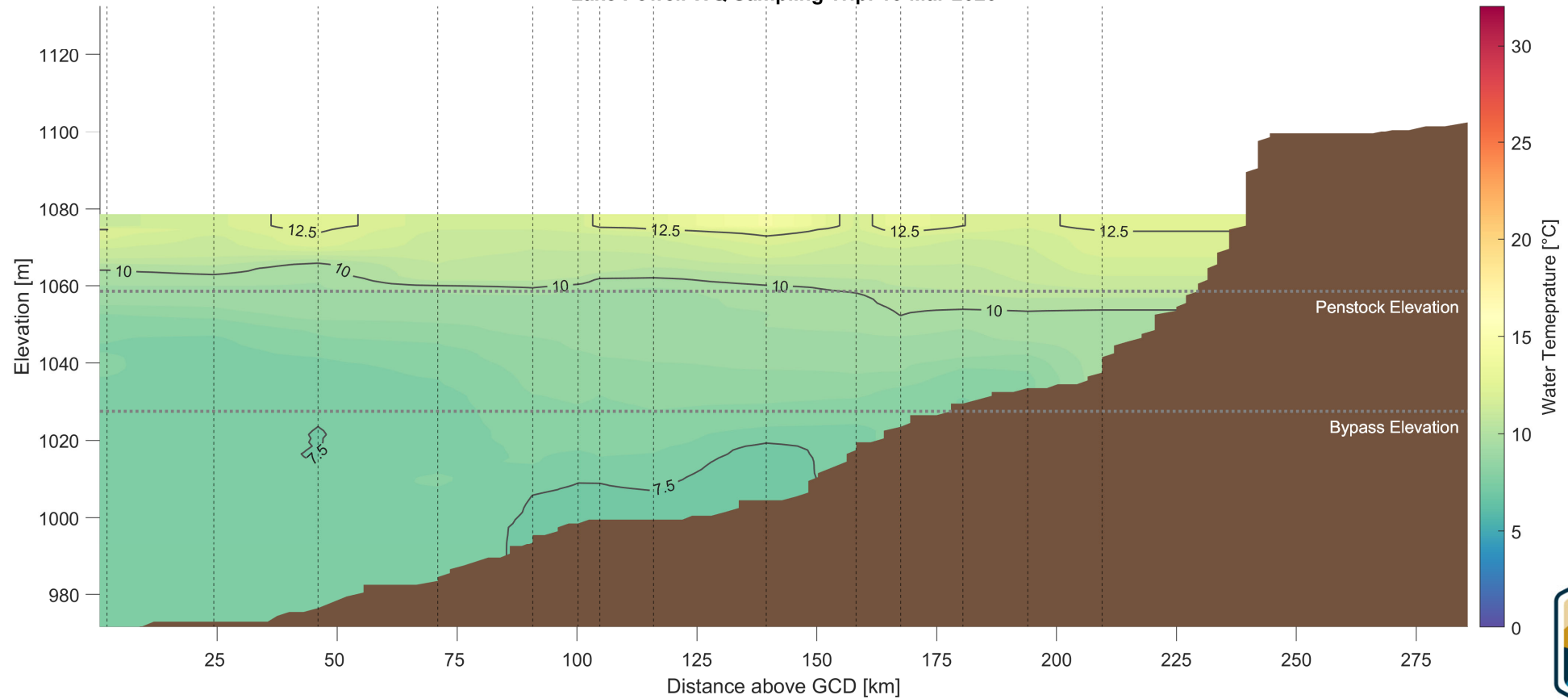
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Water Quality Update

04/09/2024

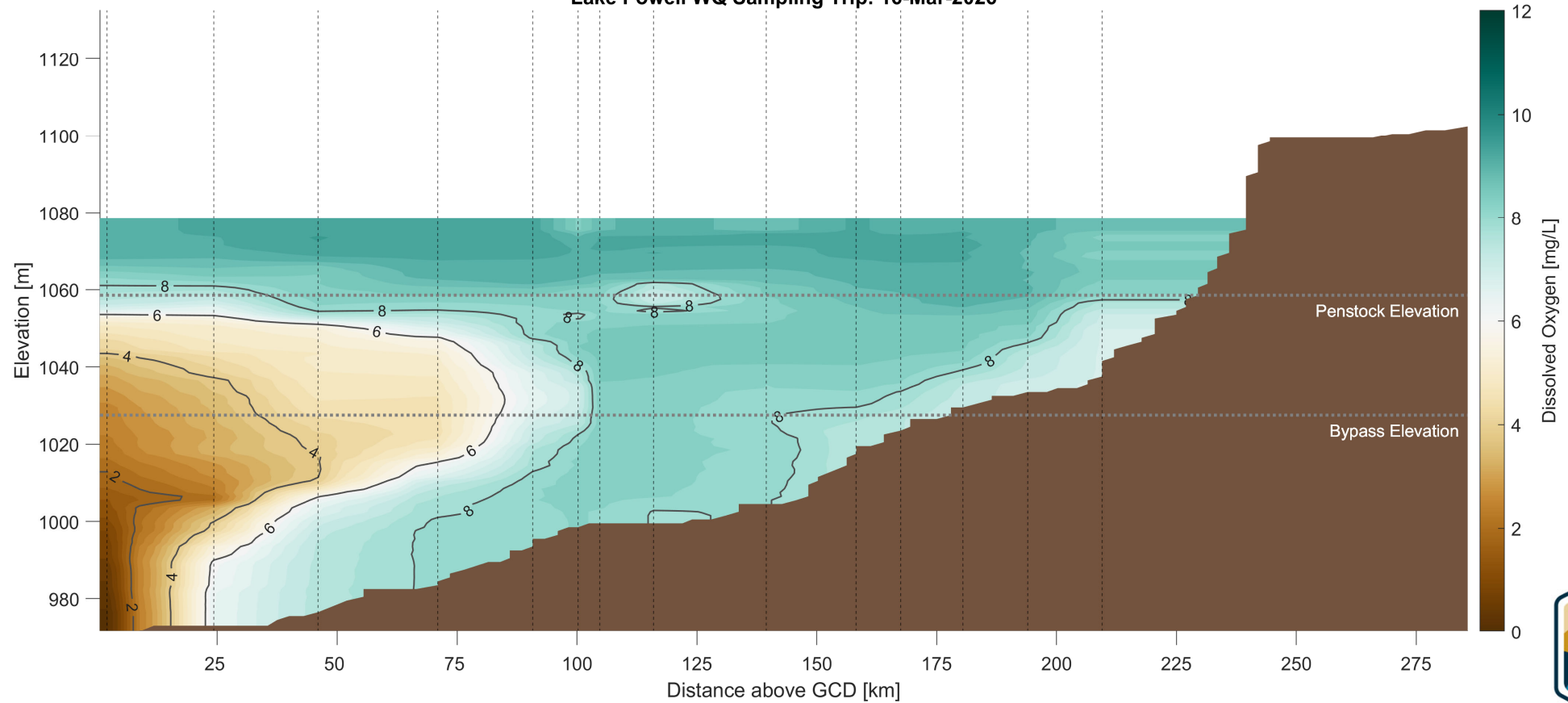
Powell – March Lake Wide Sampling Temperature

Lake Powell WQ Sampling Trip: 16-Mar-2026



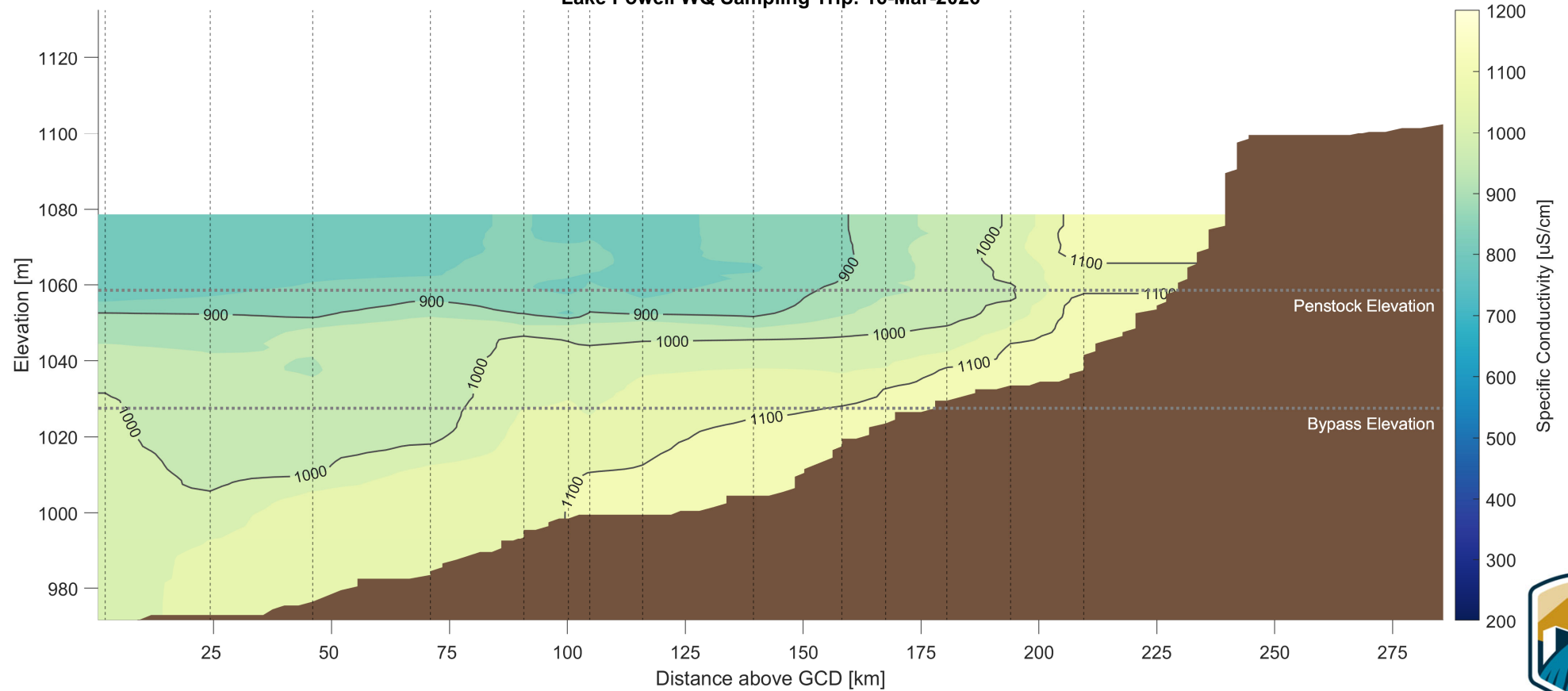
Powell – March Lake Wide Sampling Dissolved Oxygen

Lake Powell WQ Sampling Trip: 16-Mar-2026

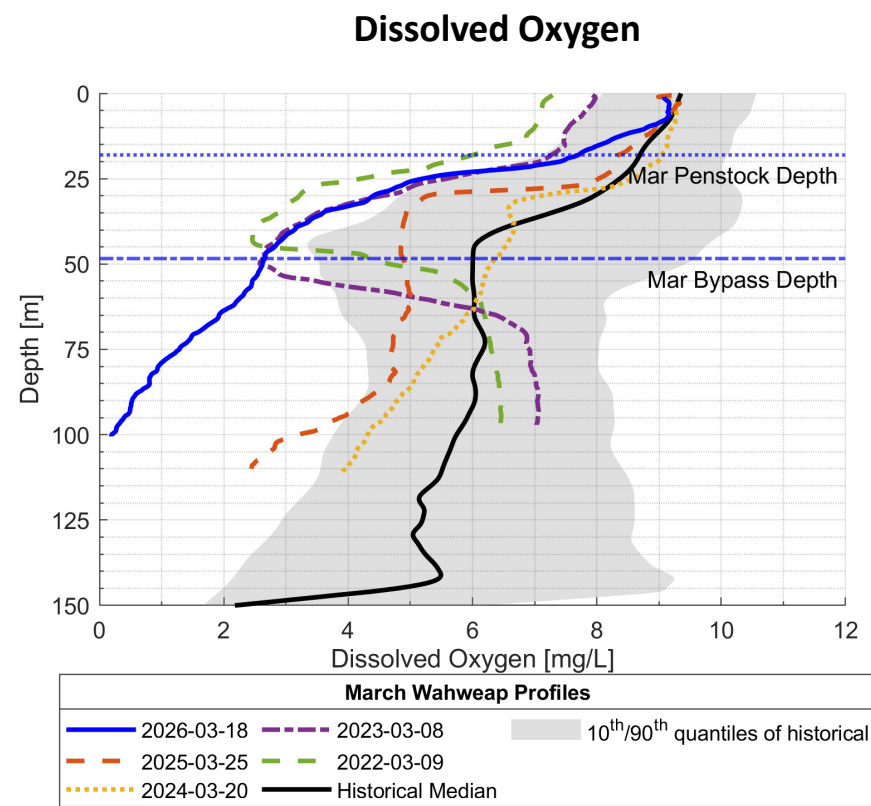
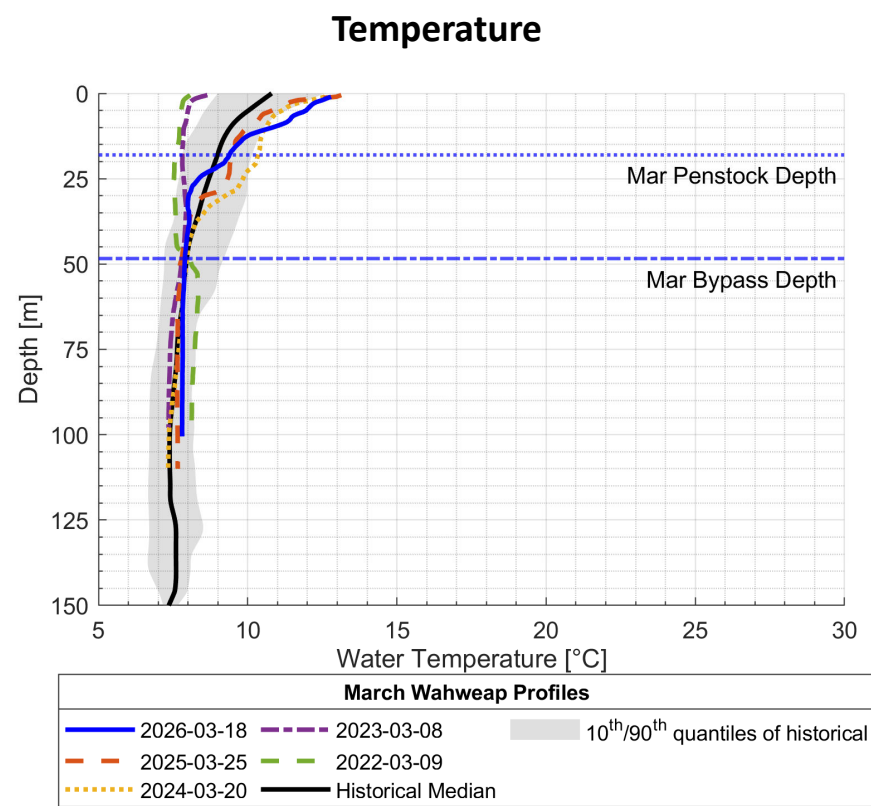


Powell – March Lake Wide Sampling Conductivity

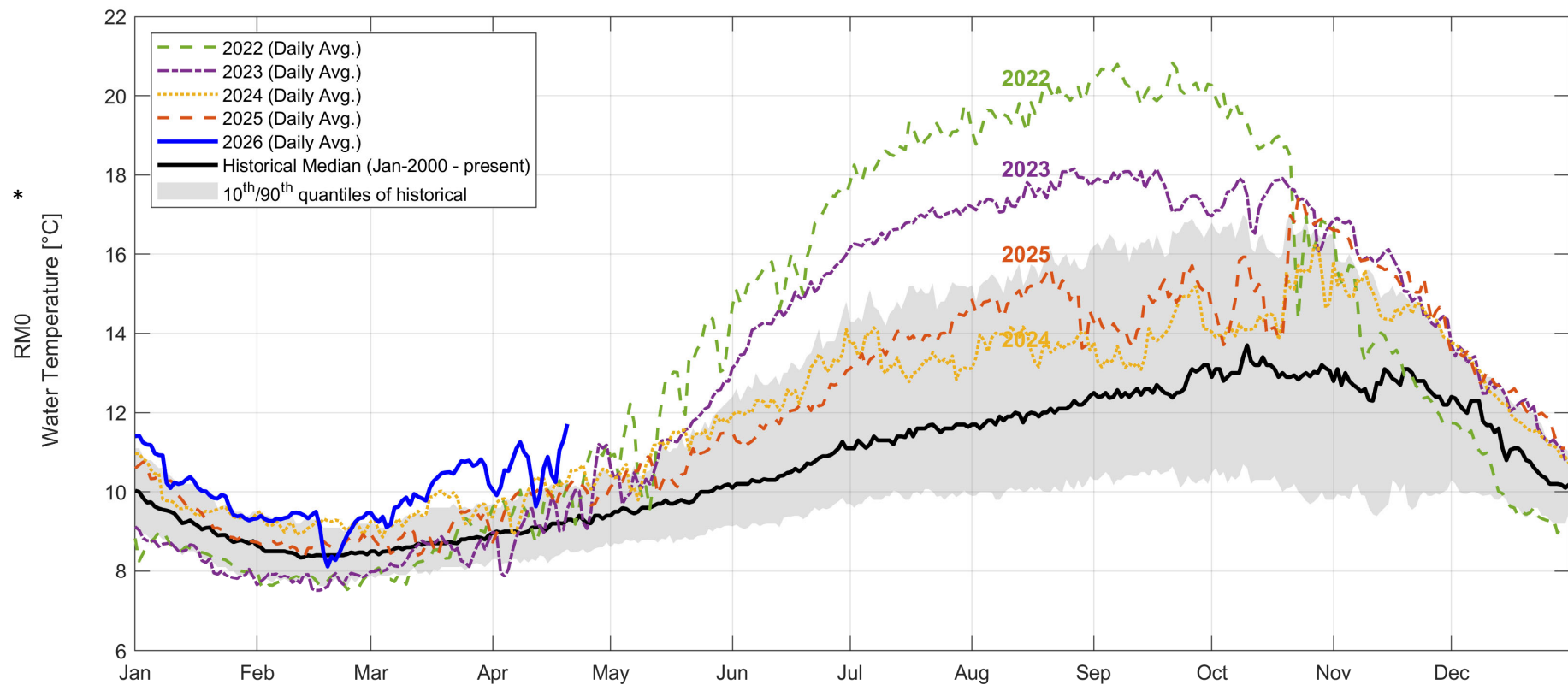
Lake Powell WQ Sampling Trip: 16-Mar-2026



Wahweap March Profiles



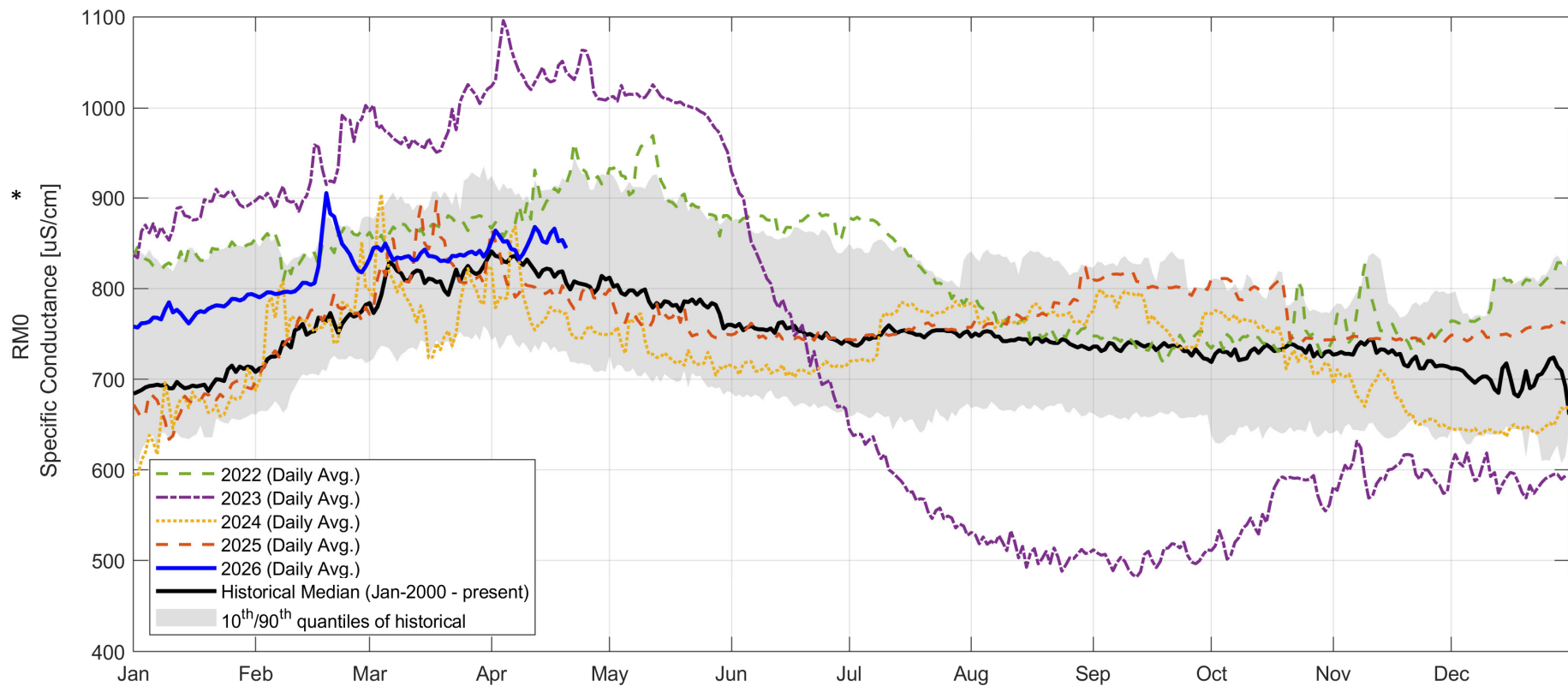
Lee's Ferry - Temperature



* Credit to USGS for data. Preliminary, not for citation.



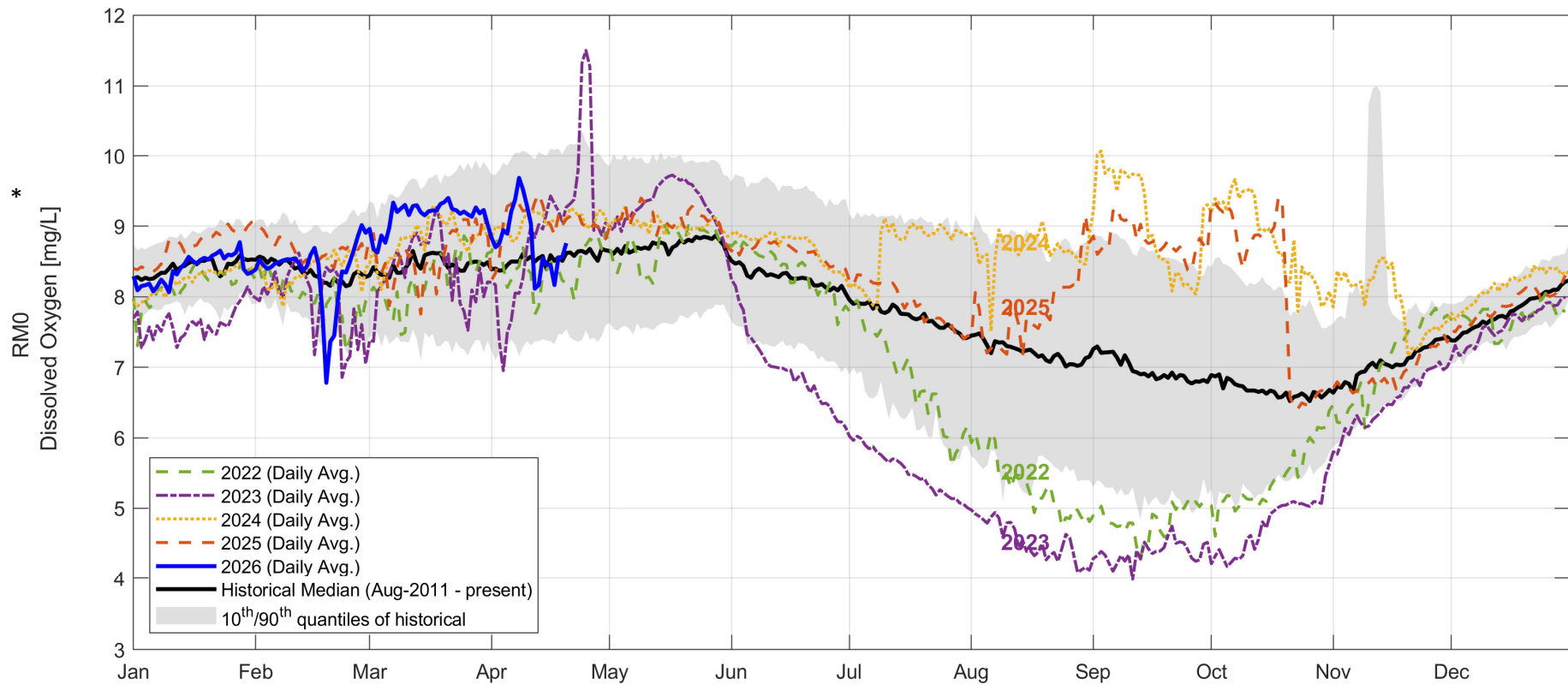
Lee's Ferry – Specific Conductivity



* Credit to USGS for data. Preliminary, not for citation.



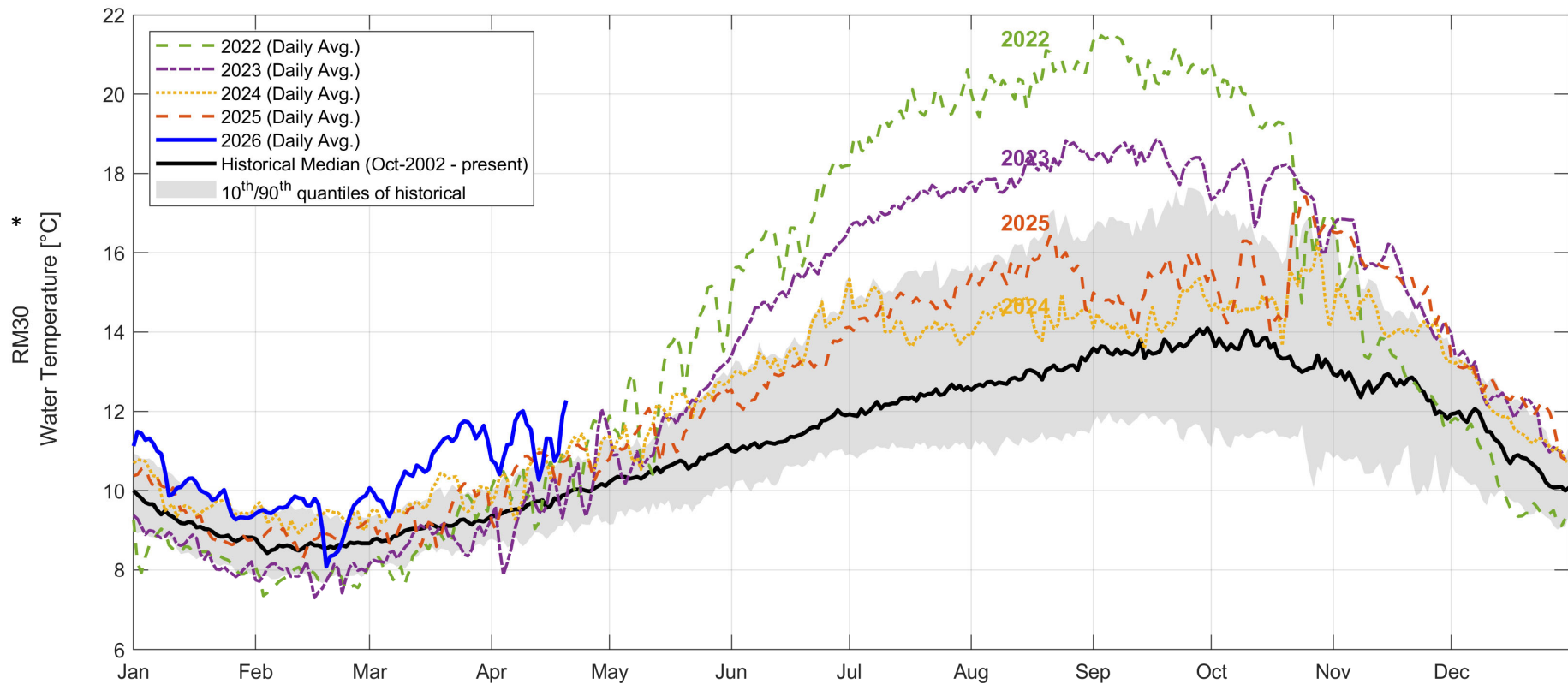
Lee's Ferry – Dissolved Oxygen



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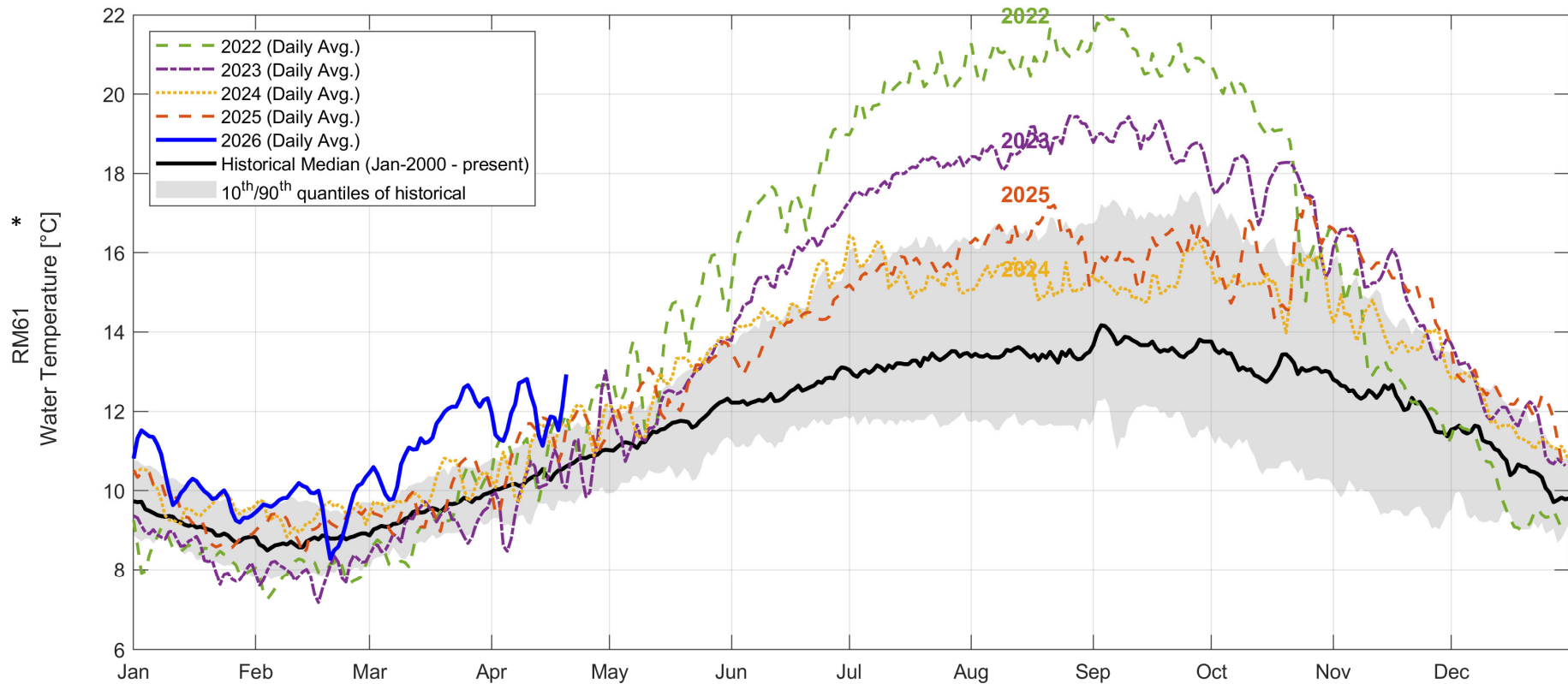
River Mile 30 - Temperature



* Credit to USGS for data. Preliminary, not for citation.



River Mile 61 - Temperature

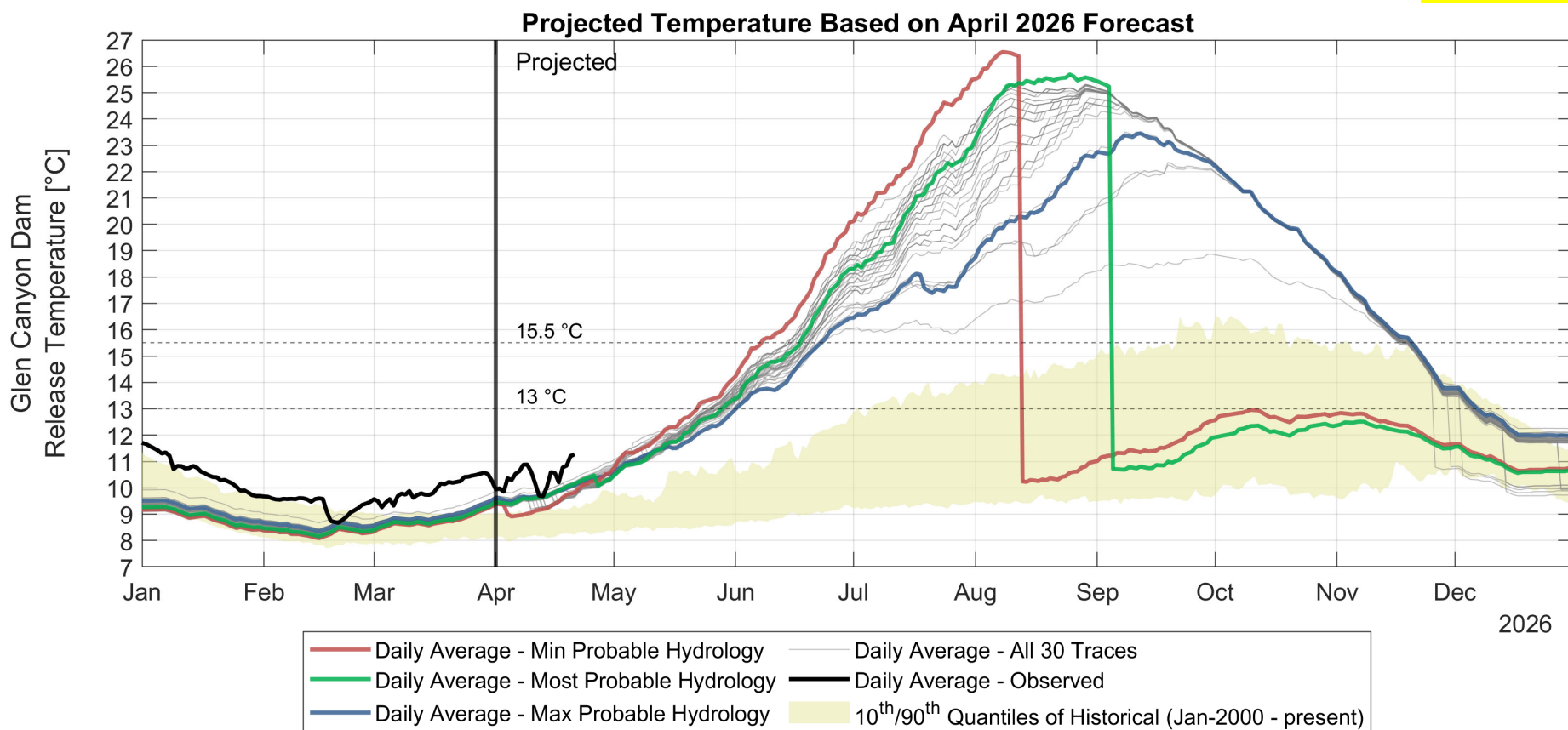


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Glen Canyon Dam Release Temperature (*Eppehimer et al, 2024 model)

Does not include
DROA or 6E

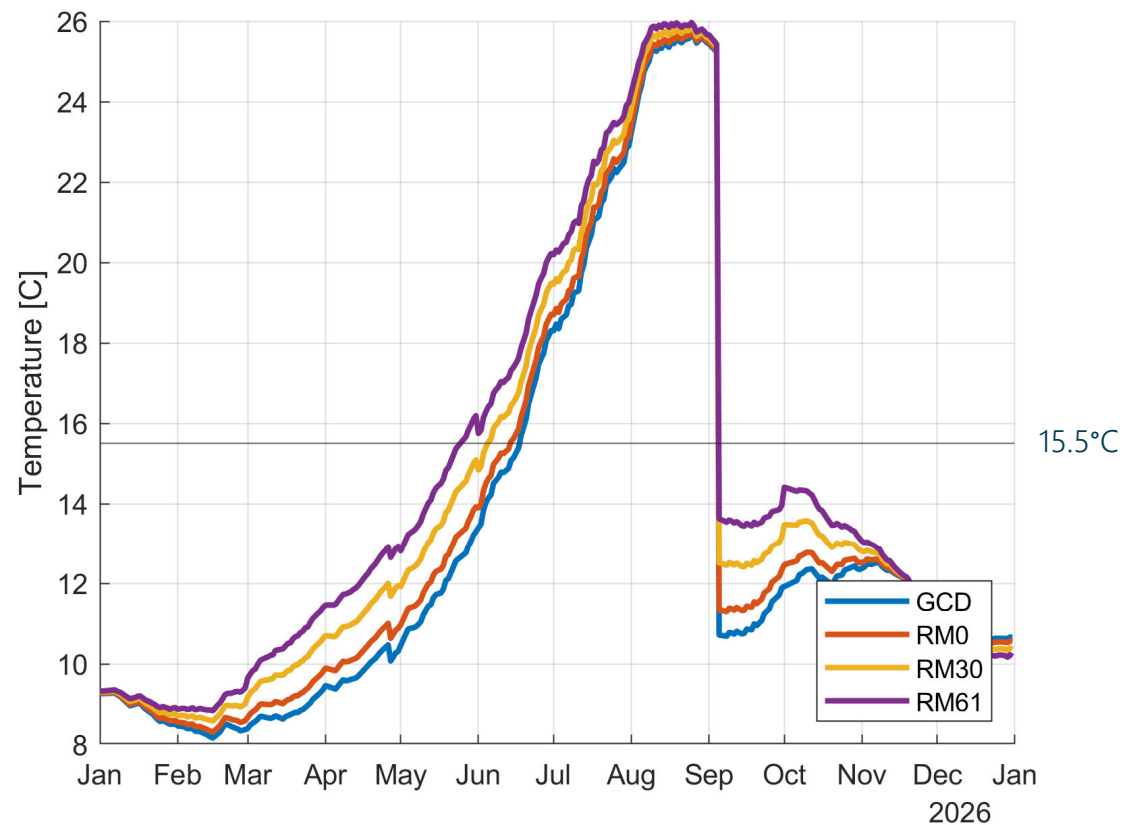


* <https://doi.org/10.1101/2024.01.23.576966>



Combined Temperature Predictions April 2026 Most Probable Hydrology

Does not include
DROA or 6E



Questions?



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