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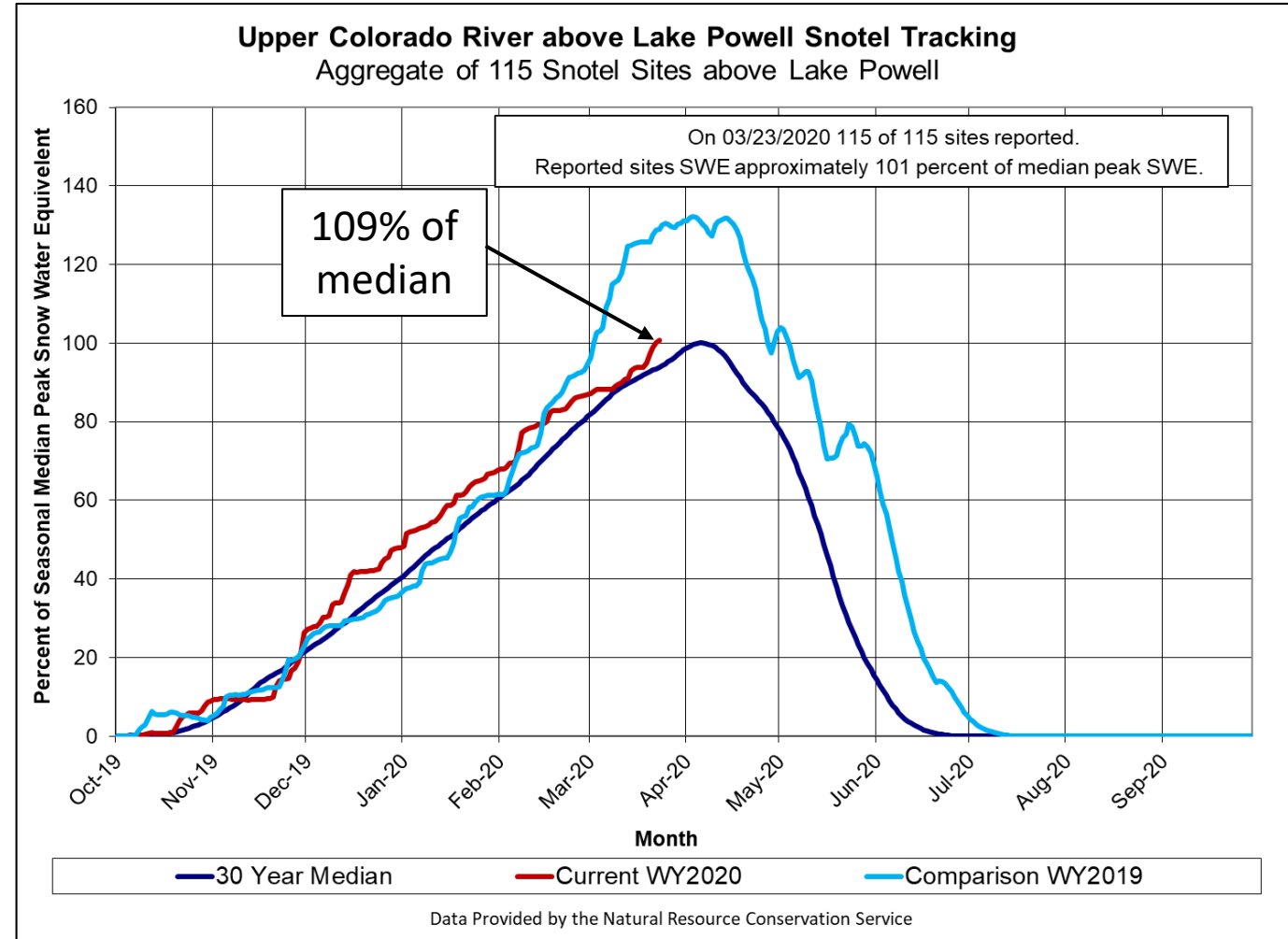
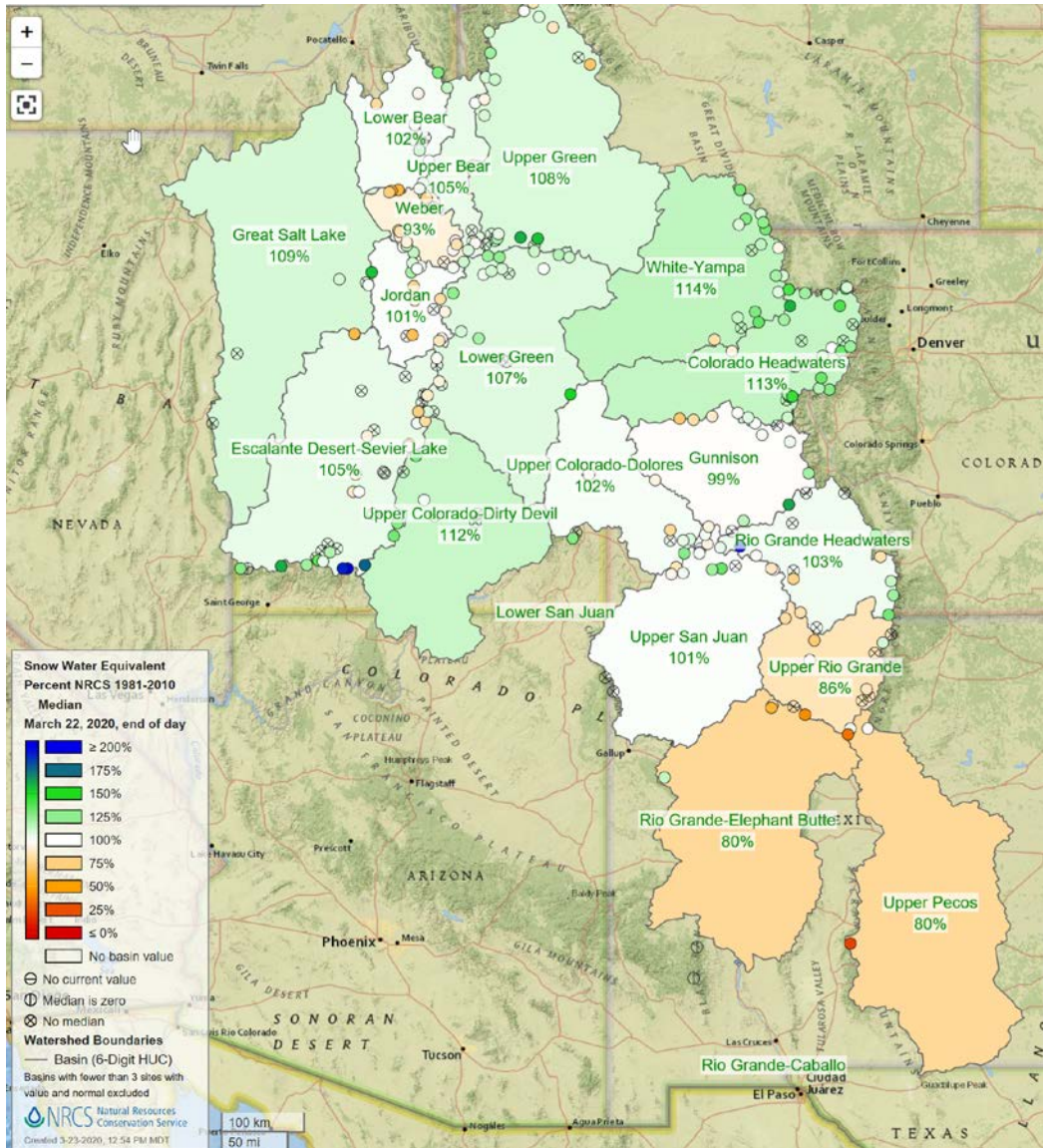
GC Monthly Operational Call

March 25, 2019

Heather E. Patno

Hydraulic Engineer

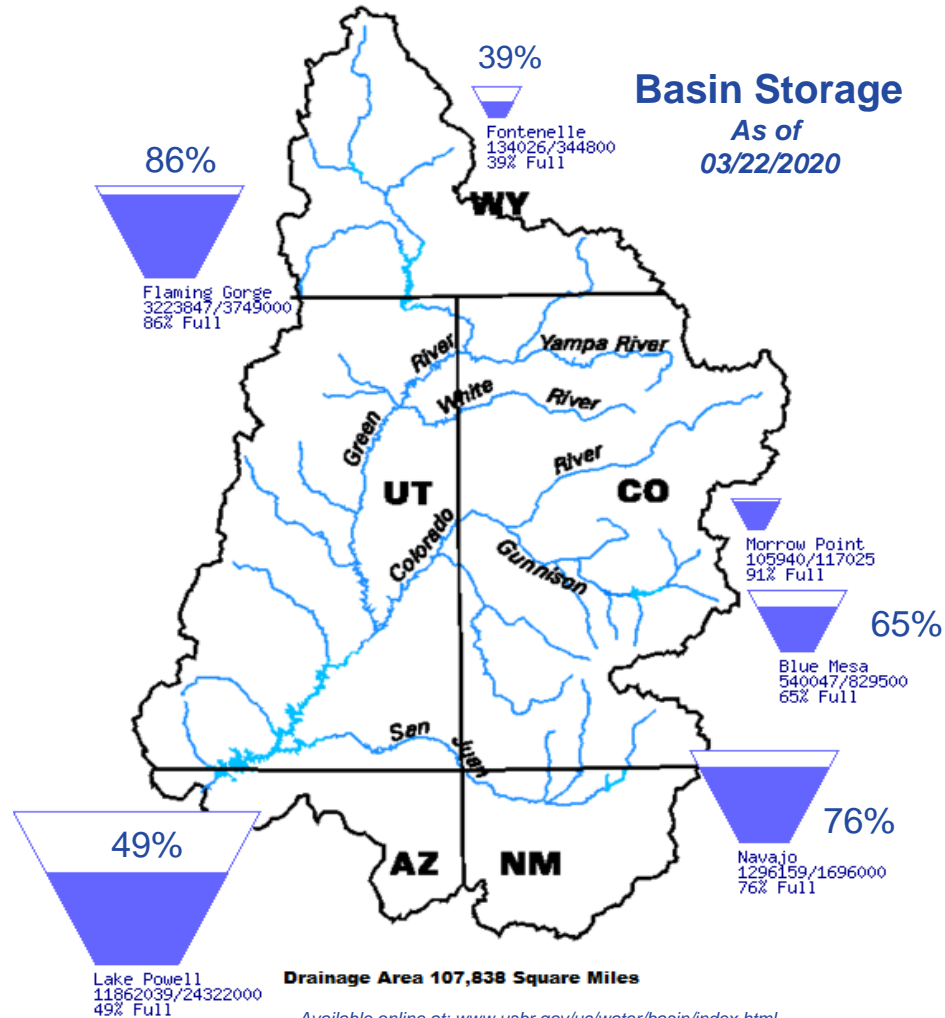
Upper Basin Snowpack



Upper Basin Storage and Inflow

Data Current as of:
03/22/2020

Upper Colorado River Drainage Basin



Water Year 2020 Forecasted Unregulated Inflow Issued March 16, 2019

Reservoir	Forecast (kaf)	Percent of Average ¹
Fontenelle	973	90
Flaming Gorge	1,309	90
Blue Mesa	776	81
Navajo	607	56
Powell	8,300	77

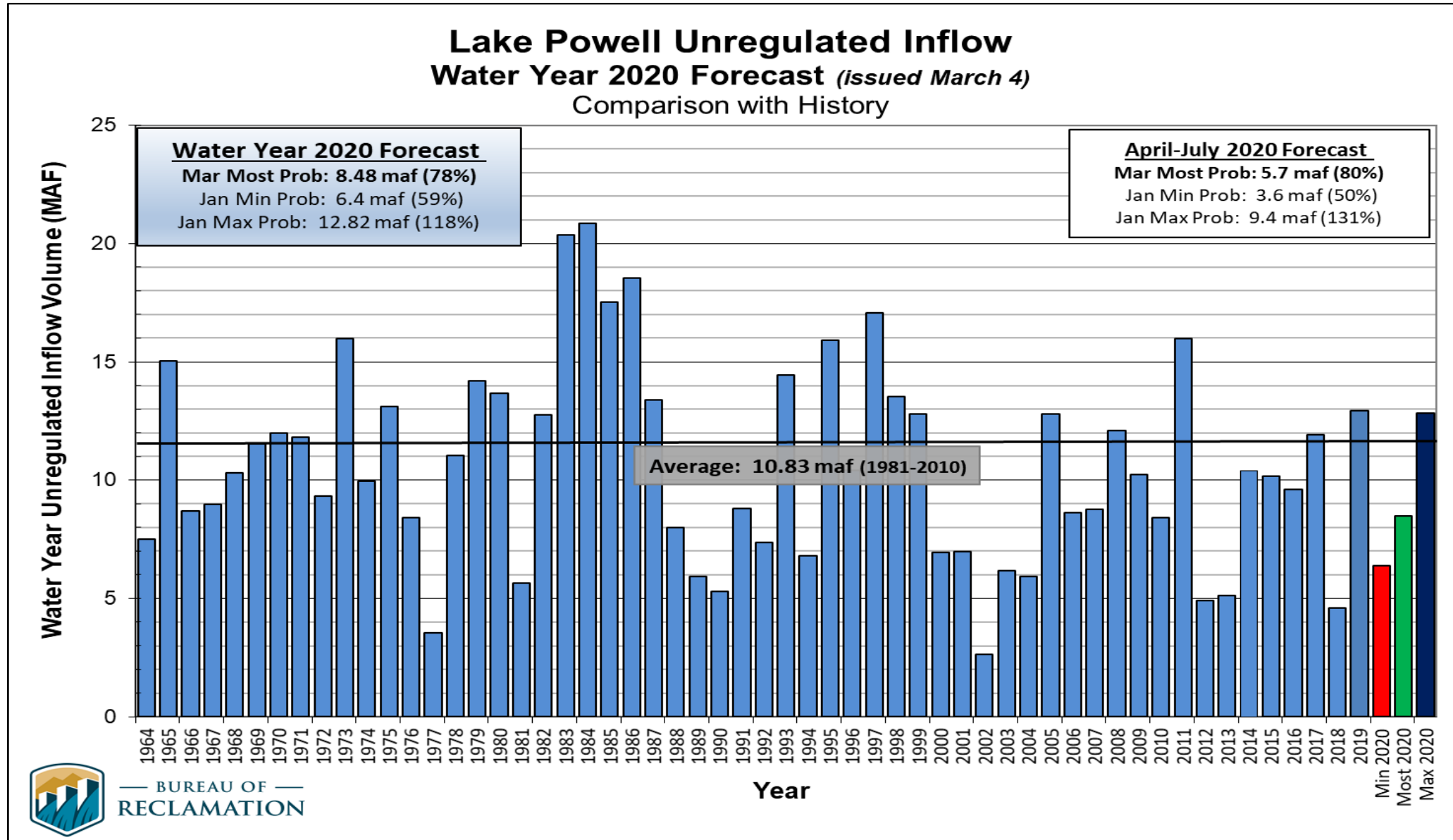
April-July 2020 Forecasted Unregulated Inflow

Reservoir	Forecast (kaf)	Percent of Average ¹
Fontenelle	620	85
Flaming Gorge	850	87
Blue Mesa	525	78
Navajo	440	60
Powell	5,500	77

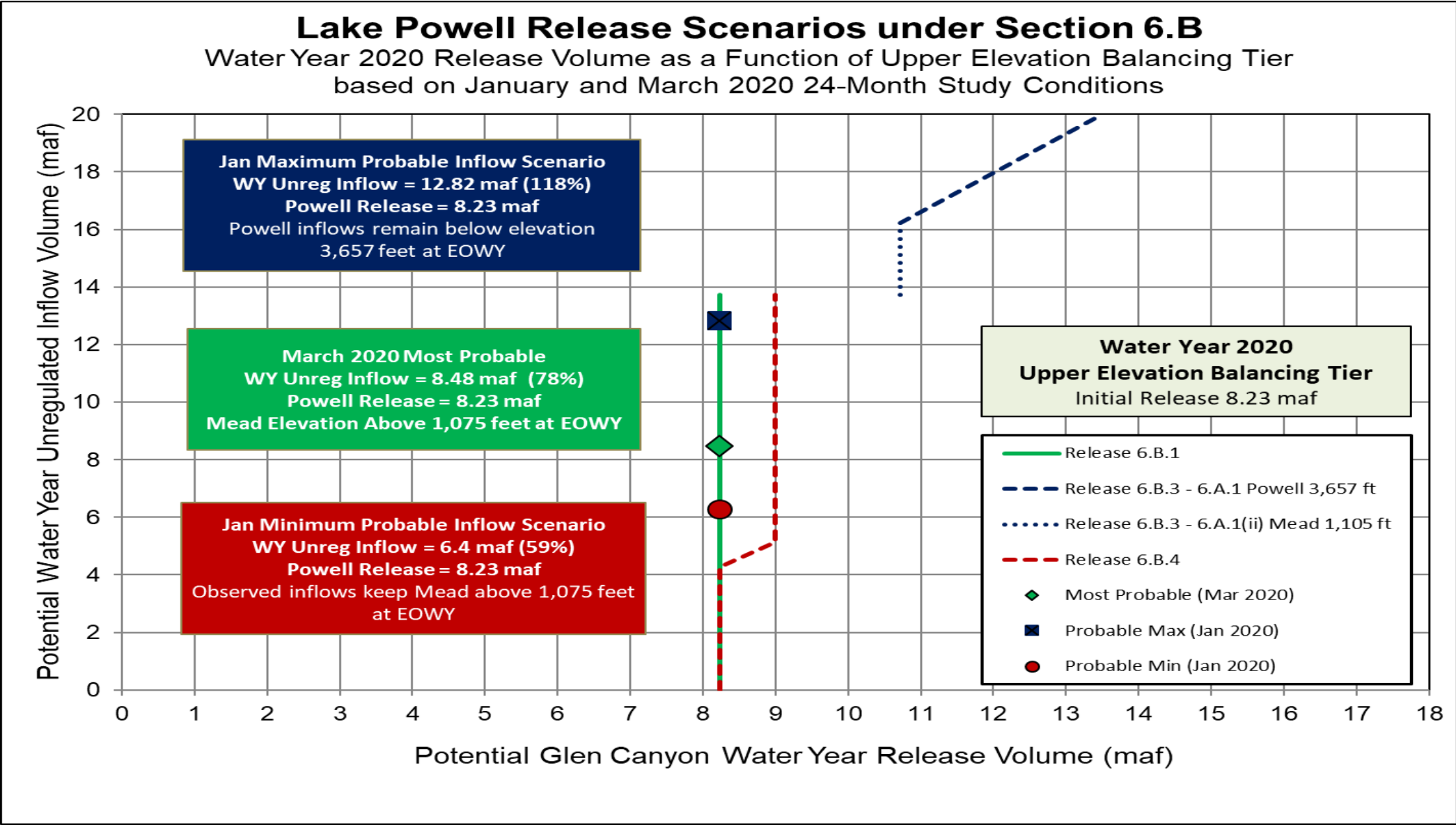
¹ Percent of average based on the period of record from 1981-2010.



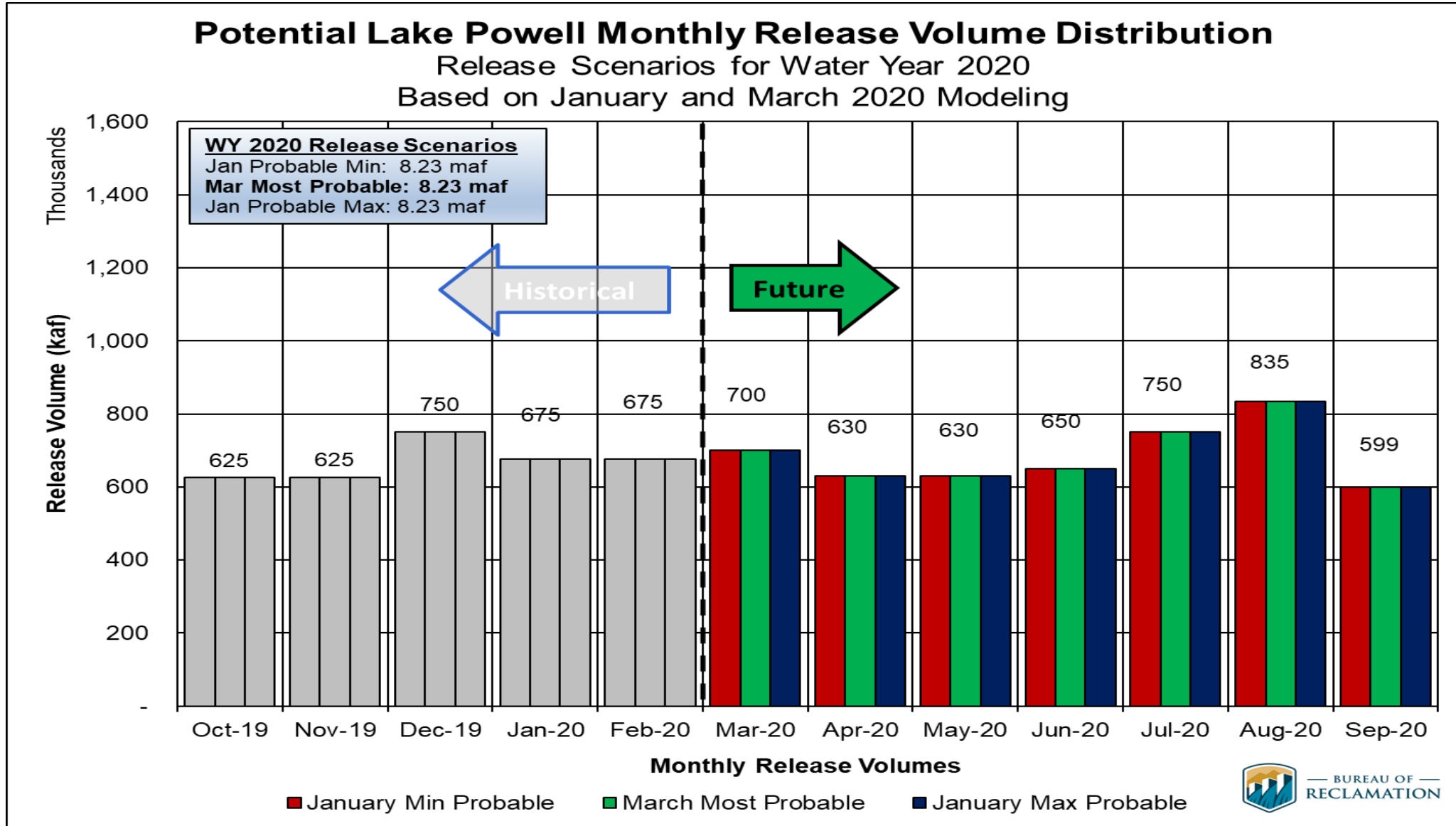
Lake Powell Inflow



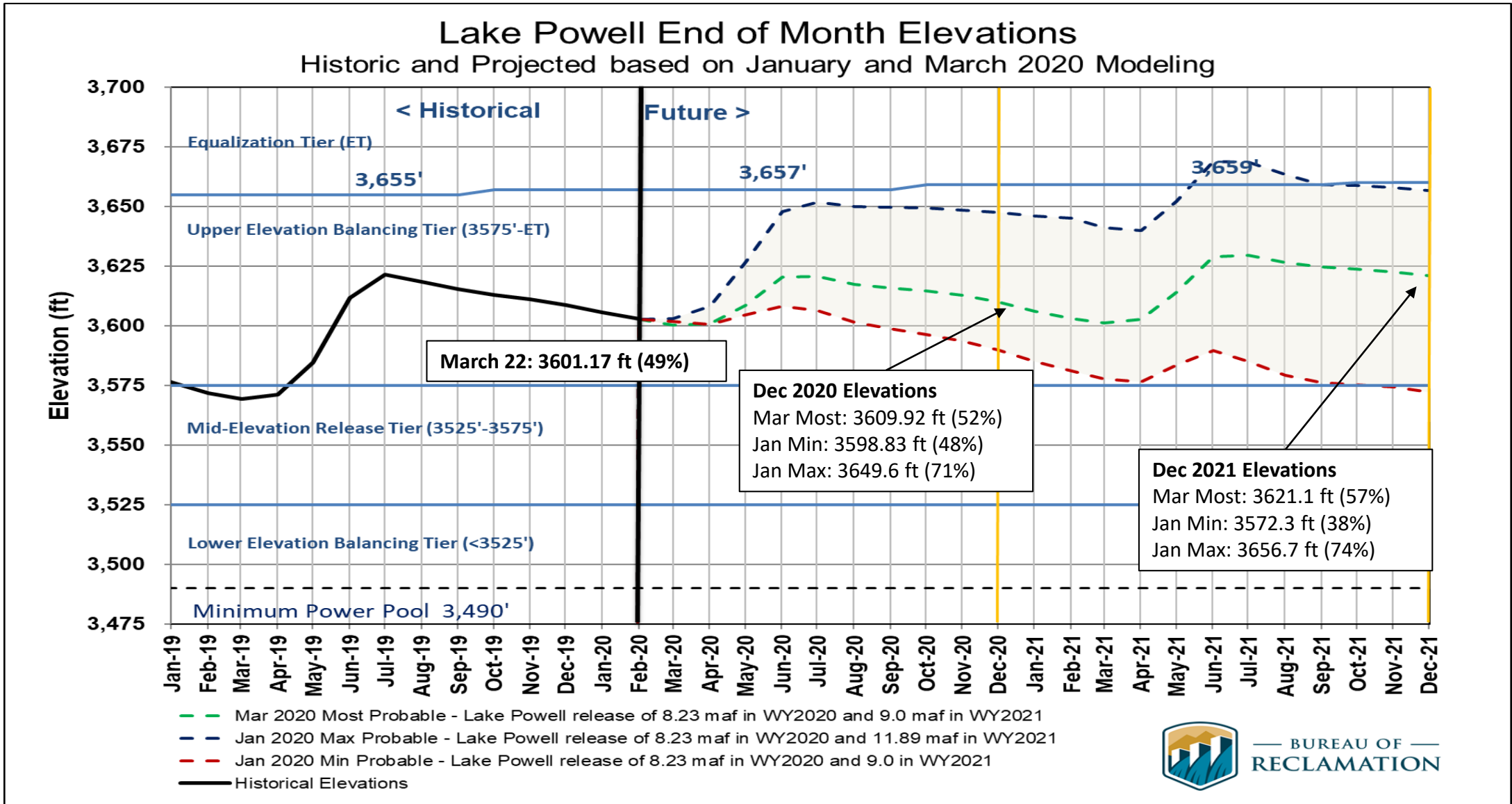
Release Scenarios under Interim Guidelines



Powell Monthly Release Volumes

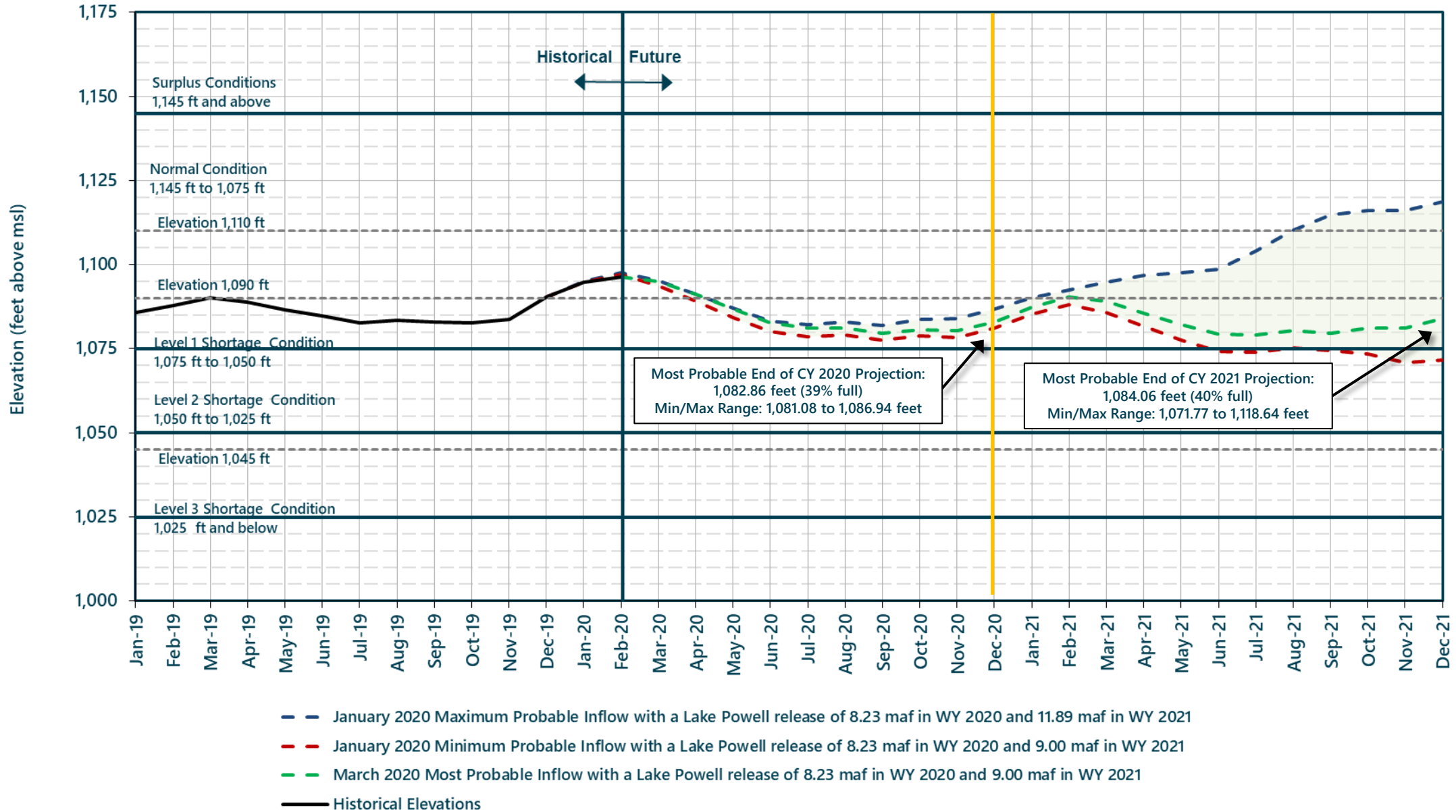


Powell Elevations



Lake Mead End of Month Elevations

Projections from the January and March 2020 24-Month Study Inflow Scenarios



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	[Outage]											
2	[Outage]											
3												
4						[Outage]						
5												
6												
7										[Outage]		
8										[Outage]		
Units Available	5	6	6	6	6	5	6	6	6	6	6	6
Capacity (cfs)	16,800	20,500	20,400	20,400	20,300	16,500	20,200	20,400	20,700	20,700	20,600	20,600
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
Max (kaf) ¹	625	625	750	760	675	700	630	630	650	750	835	599
Most (kaf) ²	625	625	750	760	675	700	630	630	650	750	835	599
Min (kaf) ¹	625	625	750	760	675	700	630	630	650	750	835	599
											(updated 01-29-2020)	

MAR MOST
JAN MAX
8.23
8.23
8.23

- 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



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

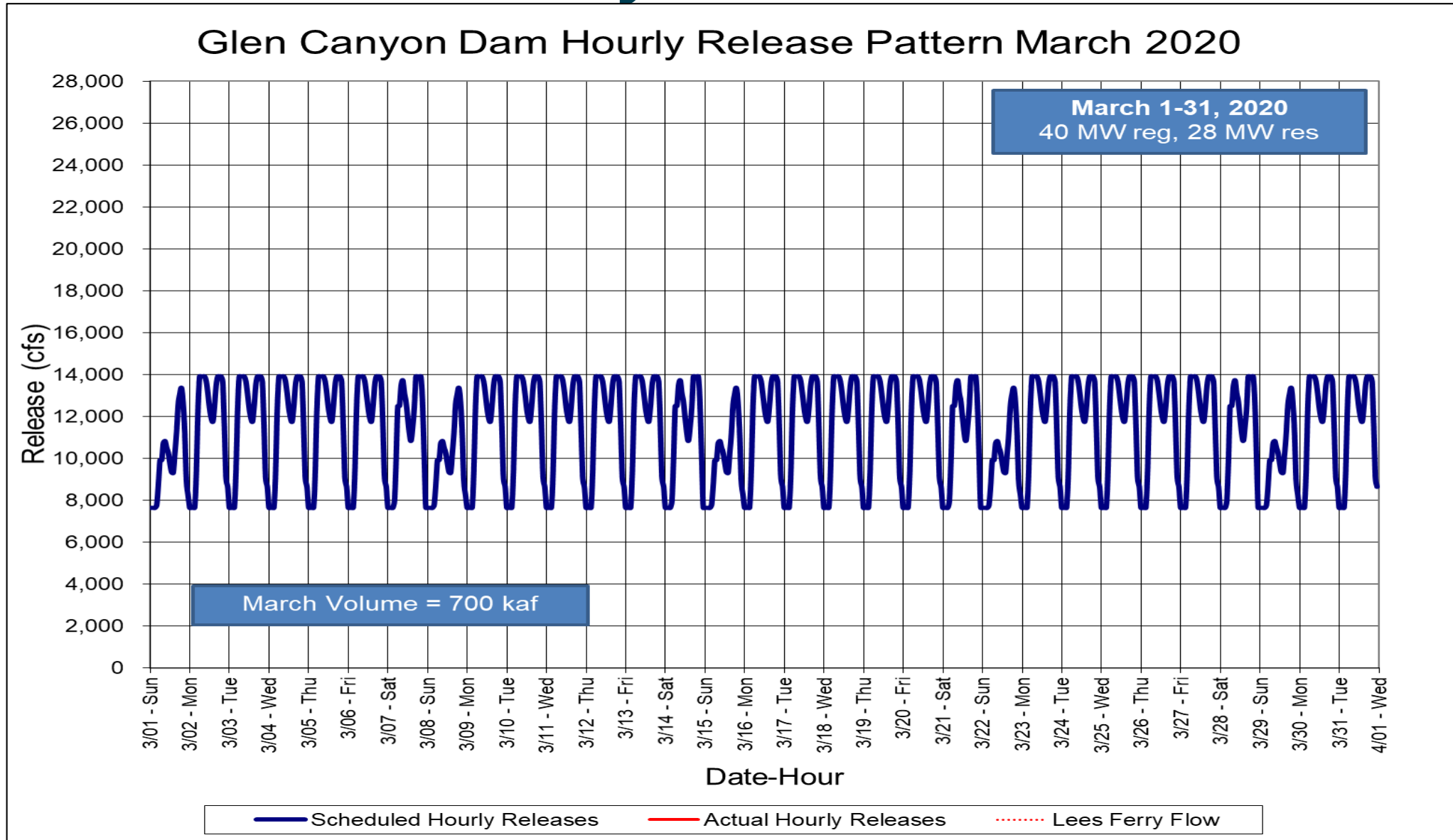
Unit Number	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021
1												■
2												■
3		■■■■■									■■	
4		■■■■■									■■	
5						■■■■■■■■■■						
6						■■■■■■■■■■						
7										■■		
8										■■		
Units Available	6	6	6	6	6	6	6	6	6	6	6	6
Capacity (cfs)	20,600	20,500	20,500	20,400	20,300	20,200	20,300	20,500	20,900	20,900	20,800	20,800
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)		

MAR MOST
JAN MAX
11.89
9.0
9.0

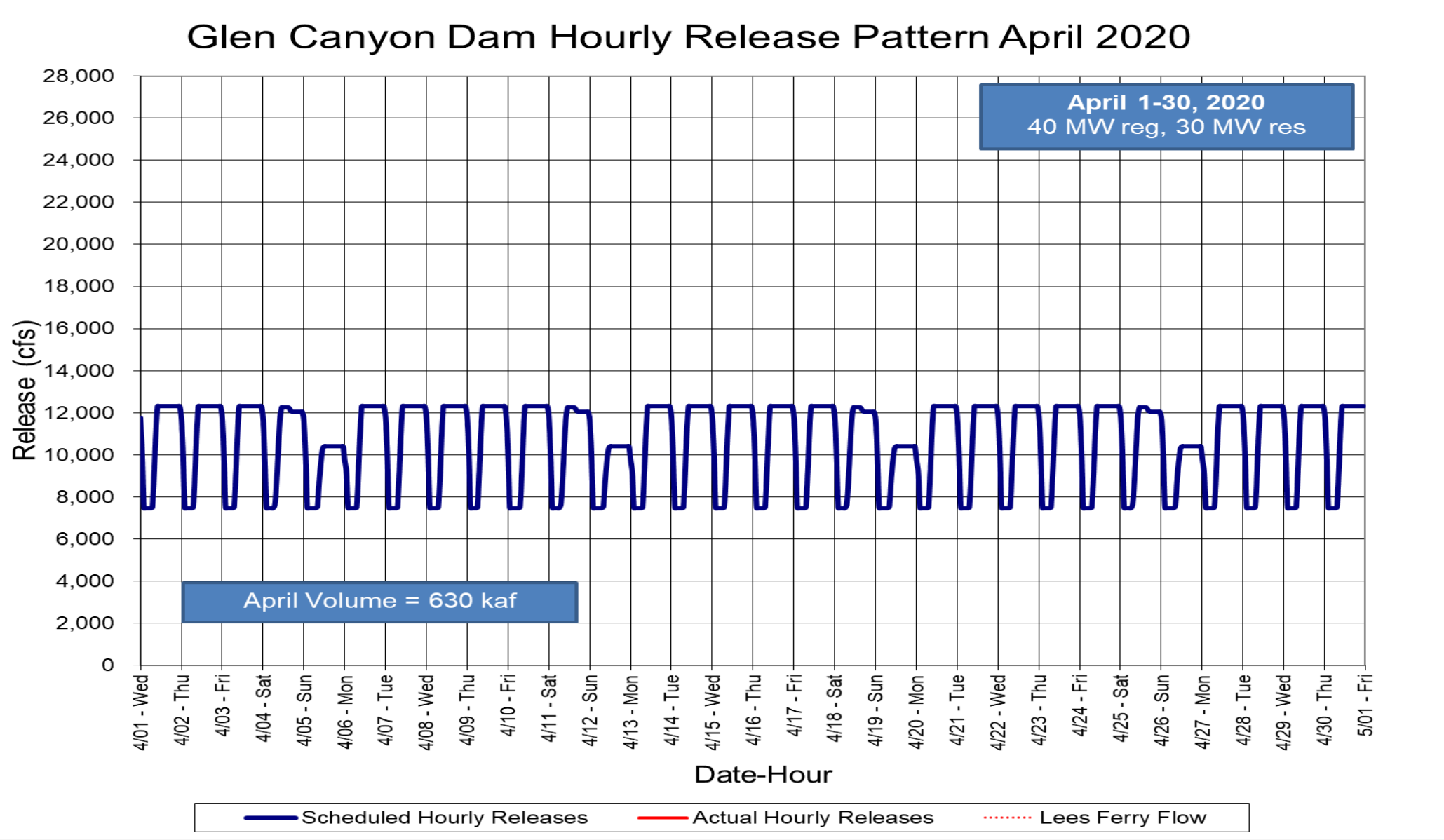
1 Projected release, based on January 2020 Most Probable Inflow Projections and 24-Month Study model runs
 2 Projected release, based on January 2020 Min and Max Probable Inflow Projections and 24-Month Study model runs



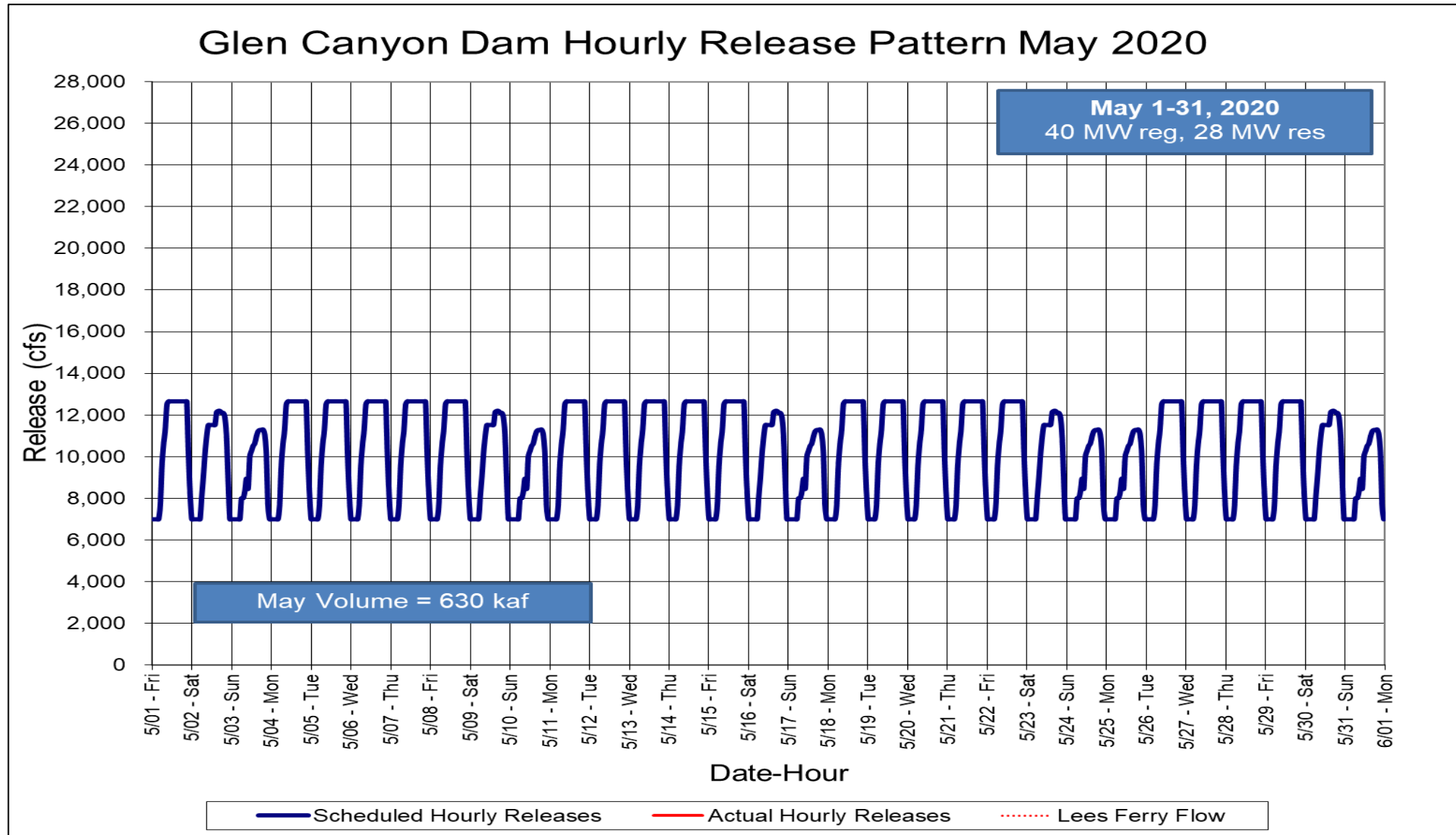
March 2020 Hourly Releases



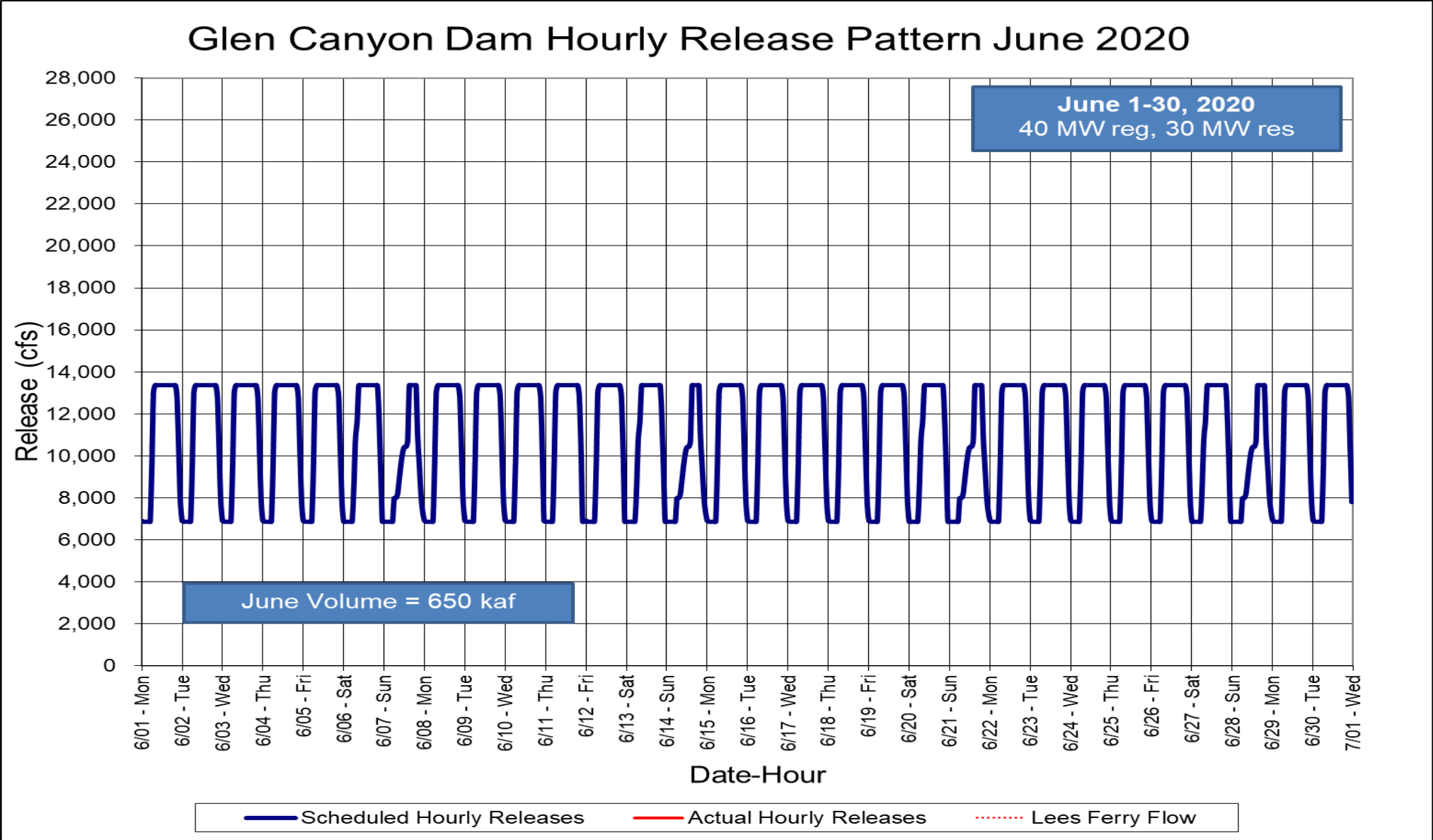
April 2020 Hourly Releases



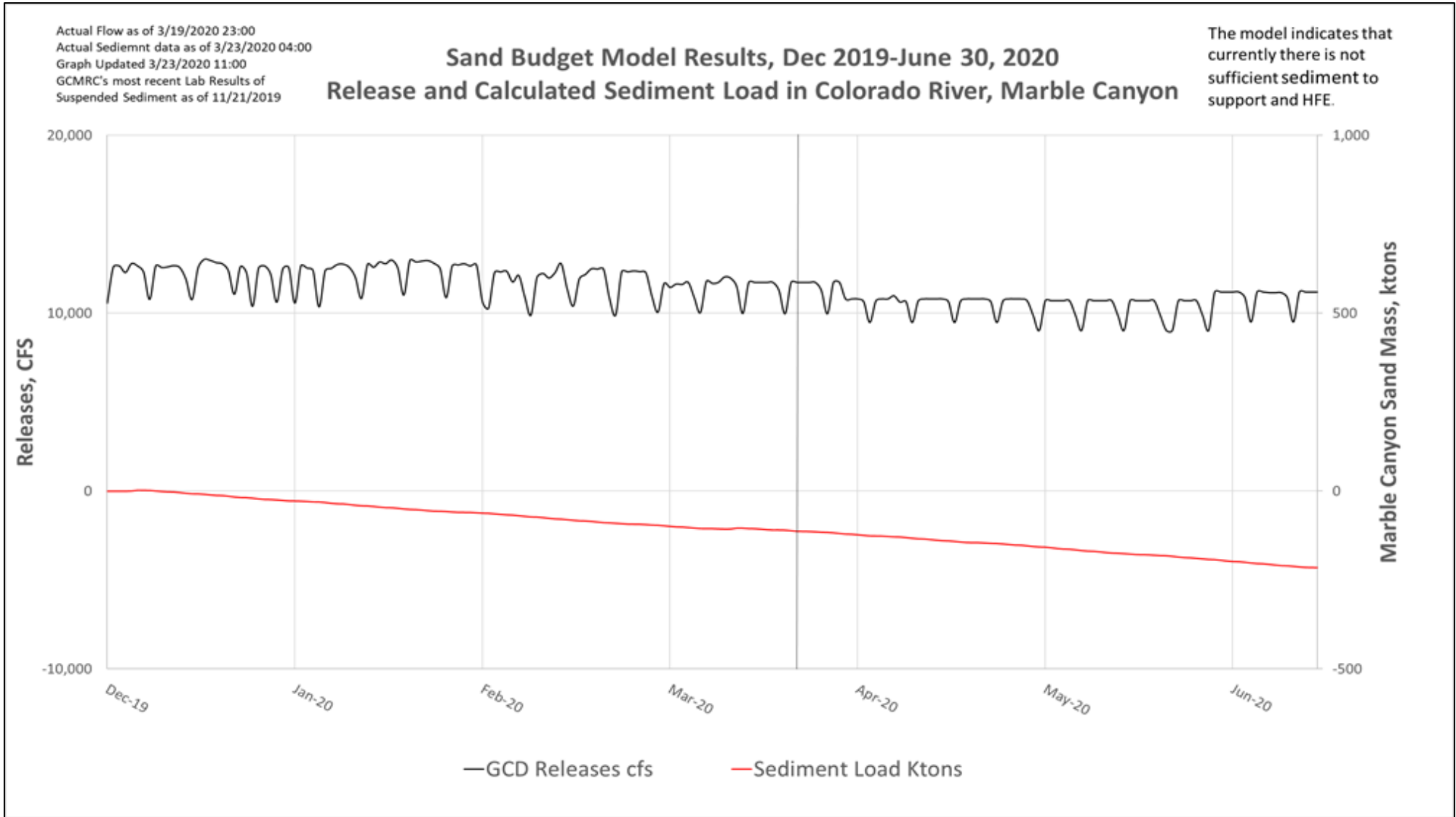
May 2020 Hourly Releases



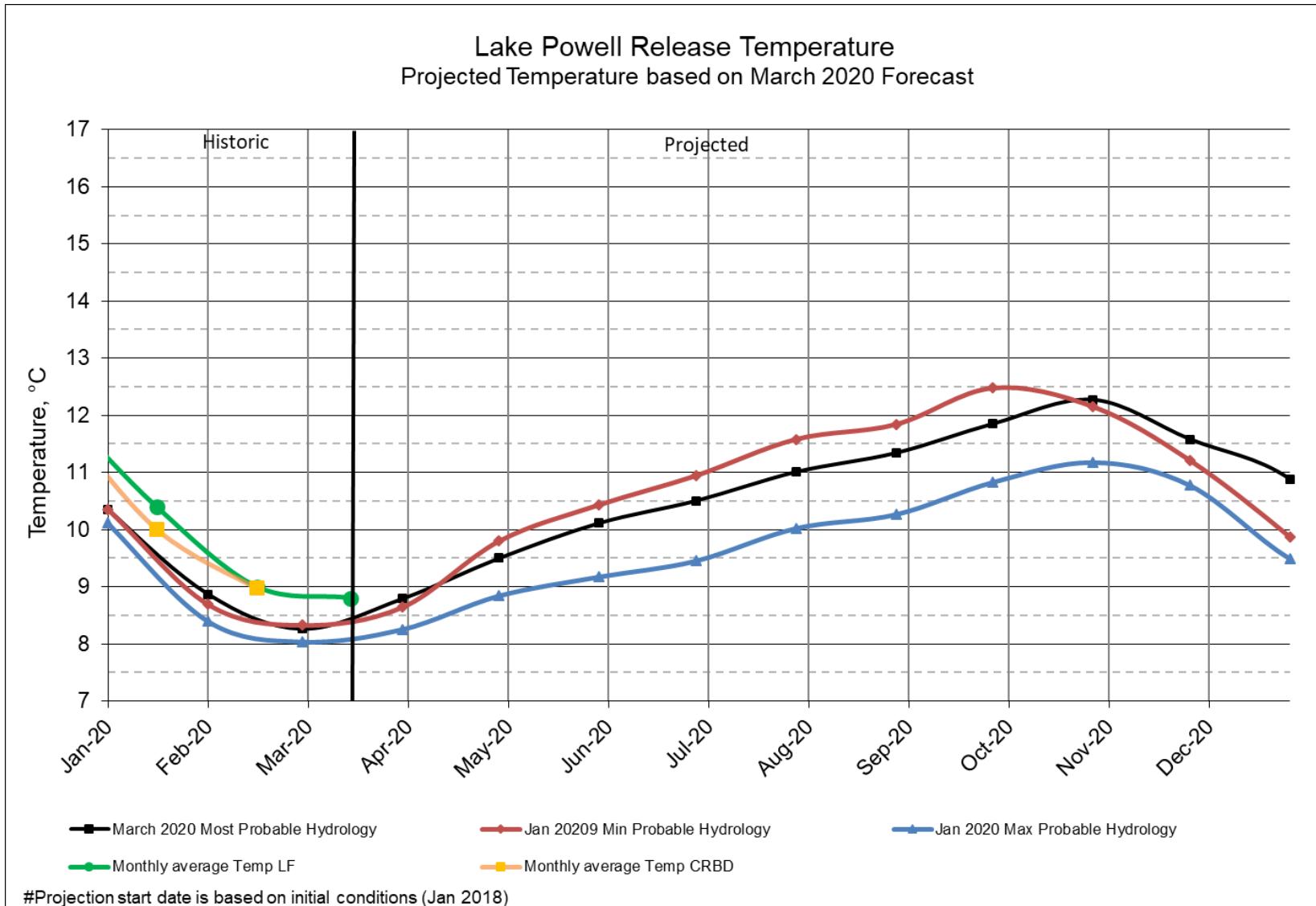
June 2020 Hourly Releases



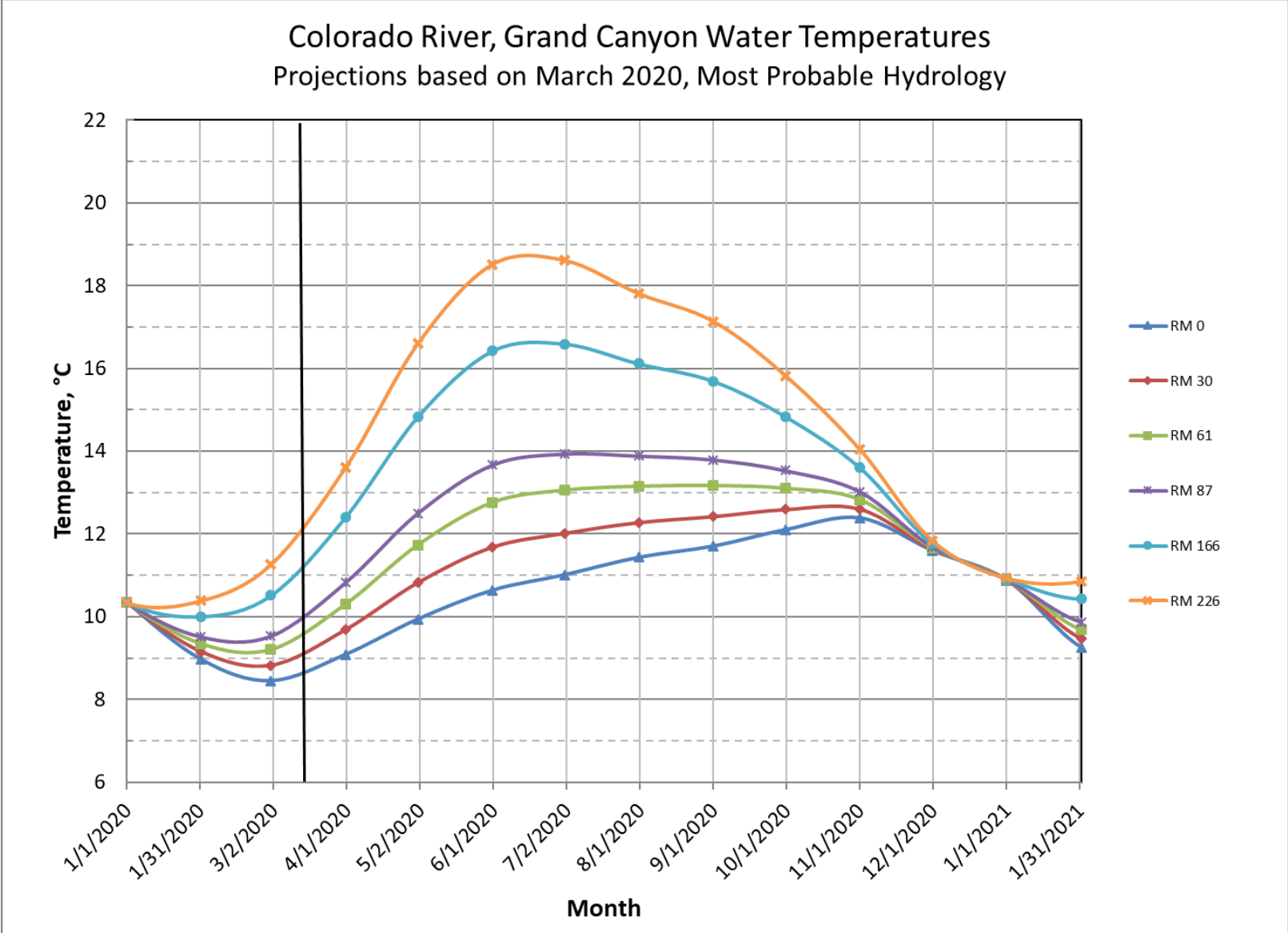
Spring HFE Model Results



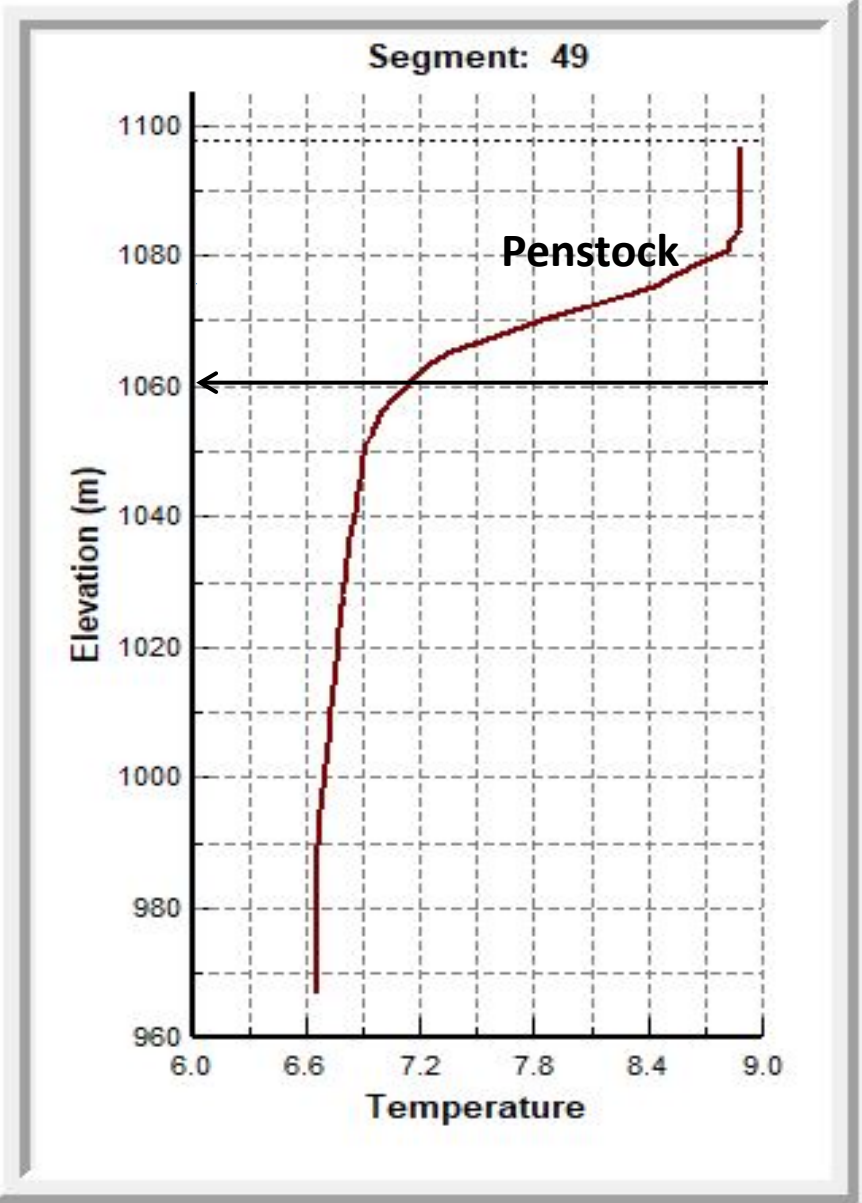
Powell Release Temperatures



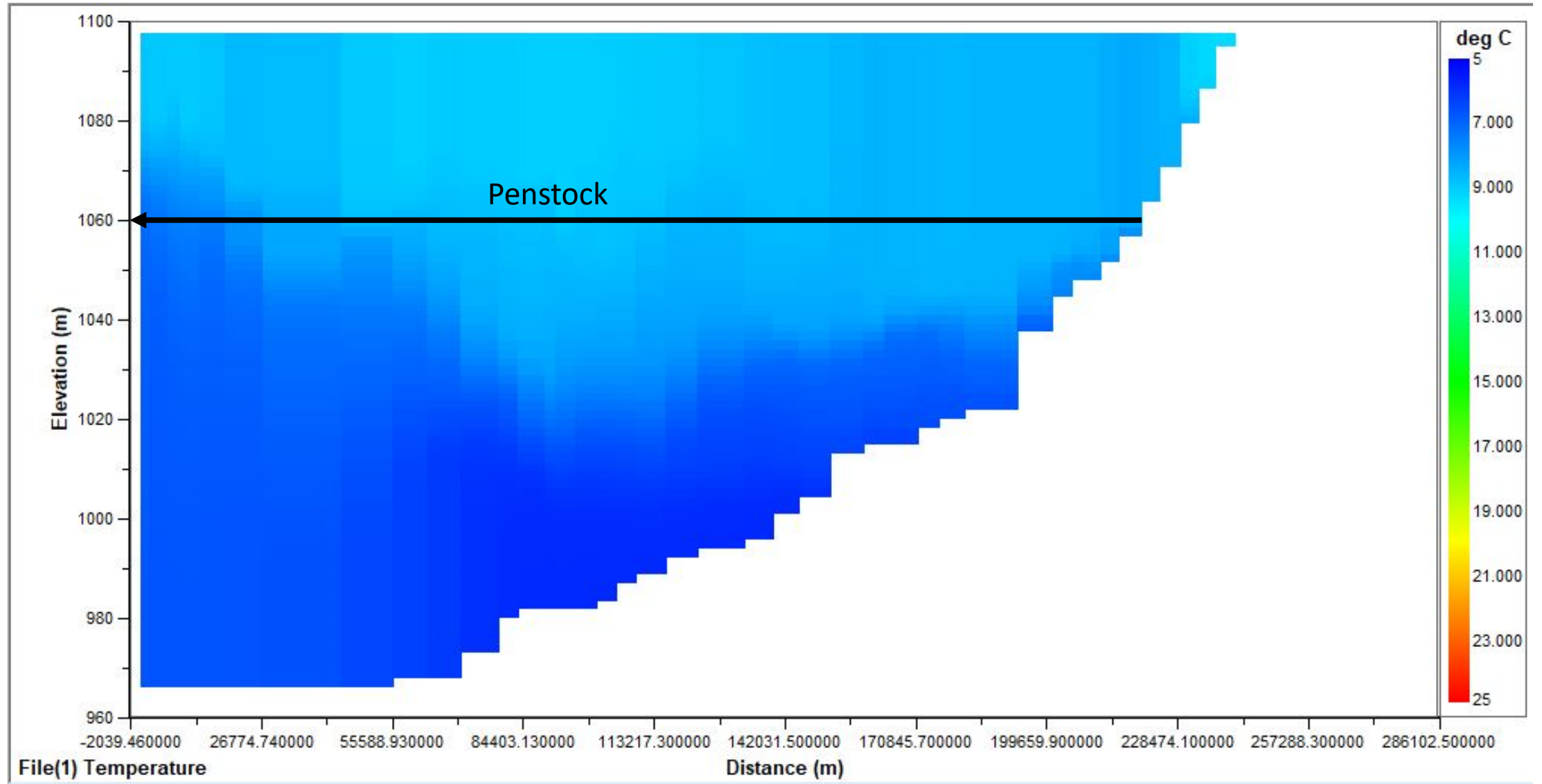
Grand Canyon Temperatures



Temperature Profile at GC Dam



Powell Reservoir Temperature Profile



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