



Water Surplus and Drought Management Update

Water Planning and Stewardship Committee
Item 6b
February 8, 2021

Outline

- State Water Project Supply Update
- Colorado River Supply Update
- Weather Forecast
- 2021 Supply and Demand Balances

State Water Project Supply

DWR Maintains the SWP allocation at 10%

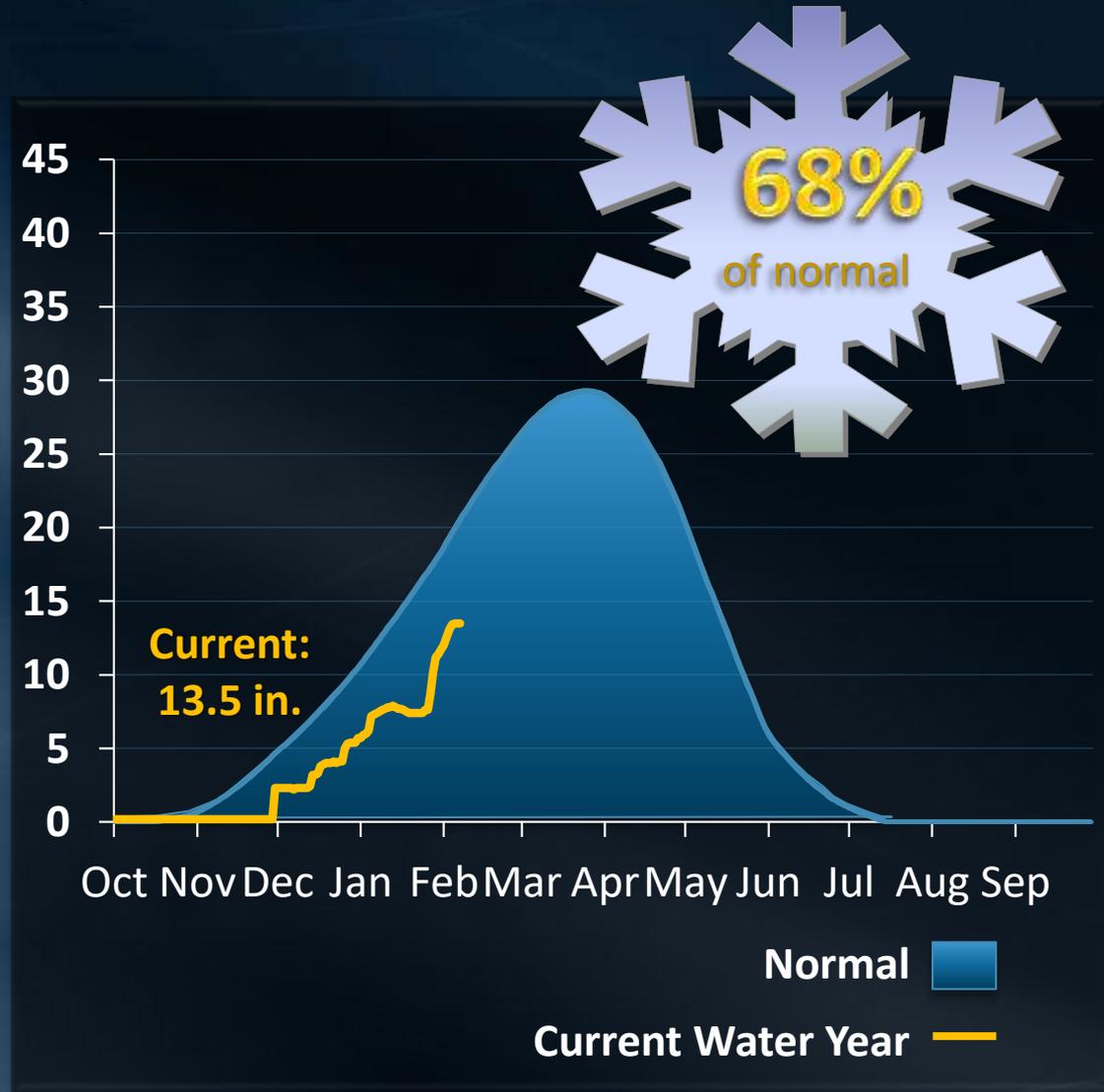
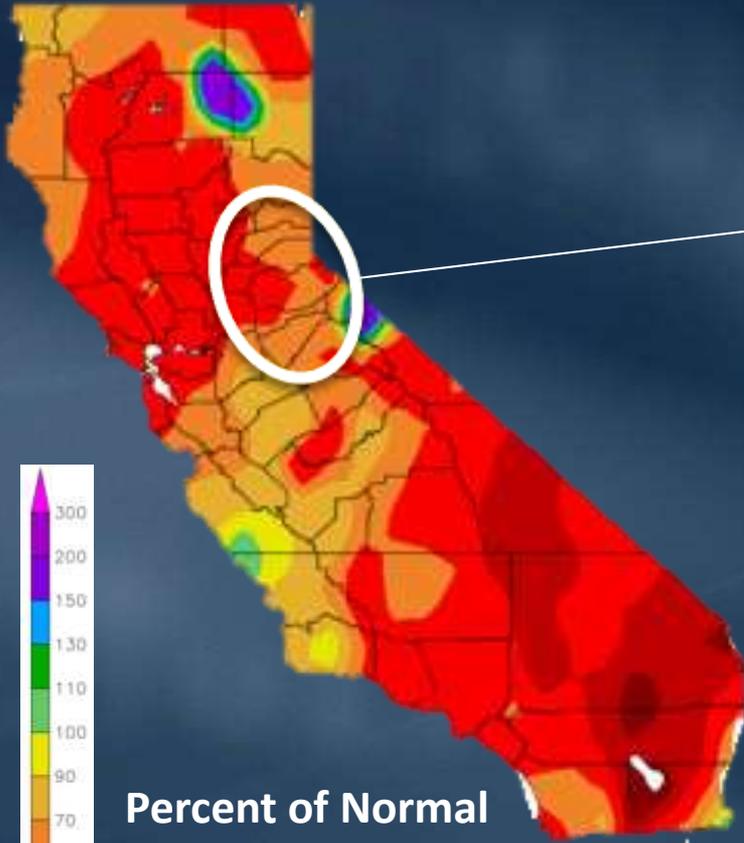
- Monthly studies are prepared to evaluate SWP allocation
- Recent allocation study suggests a potential drop to 5%
- DWR is assessing the late January early February storms before making any allocation changes
- The allocation can increase based on improved hydrologic conditions
- Allocation firms up in April/May timeframe

Late January Storms Bring Much Needed Precipitation



Northern California Hydrologic Conditions

As of 2/7/2021



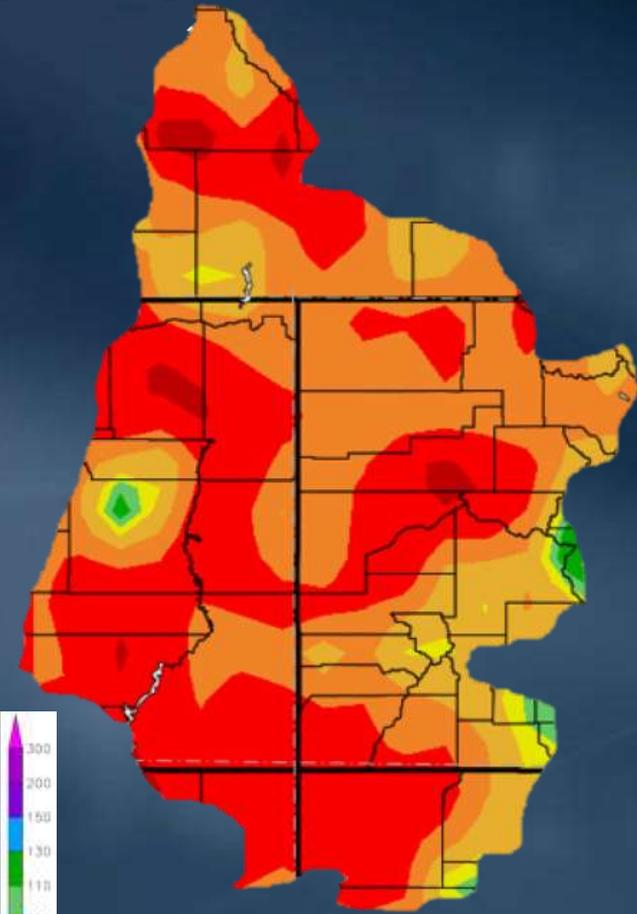
8-Station Precipitation



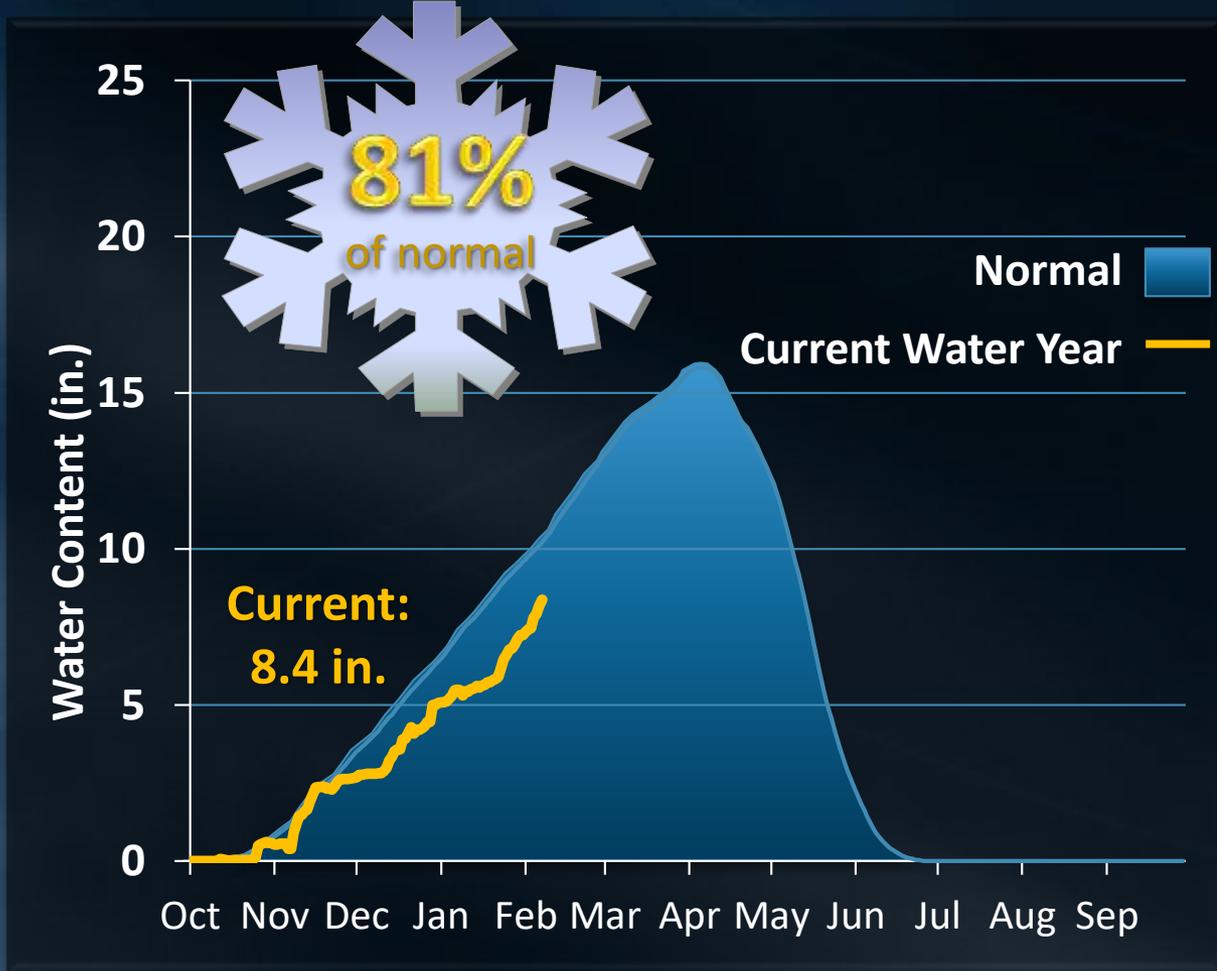
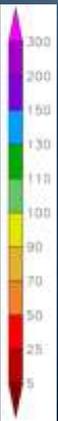
Colorado River Supply

Upper Colorado River Basin Hydrologic Conditions

As of 2/7/2021



**Percent of Normal
Precipitation
Water Year to date**



USBR 24-Month Study

- Monthly analysis that projects future reservoir conditions and operations
- January 24-Month Study produced a range of potential future reservoir conditions and operations

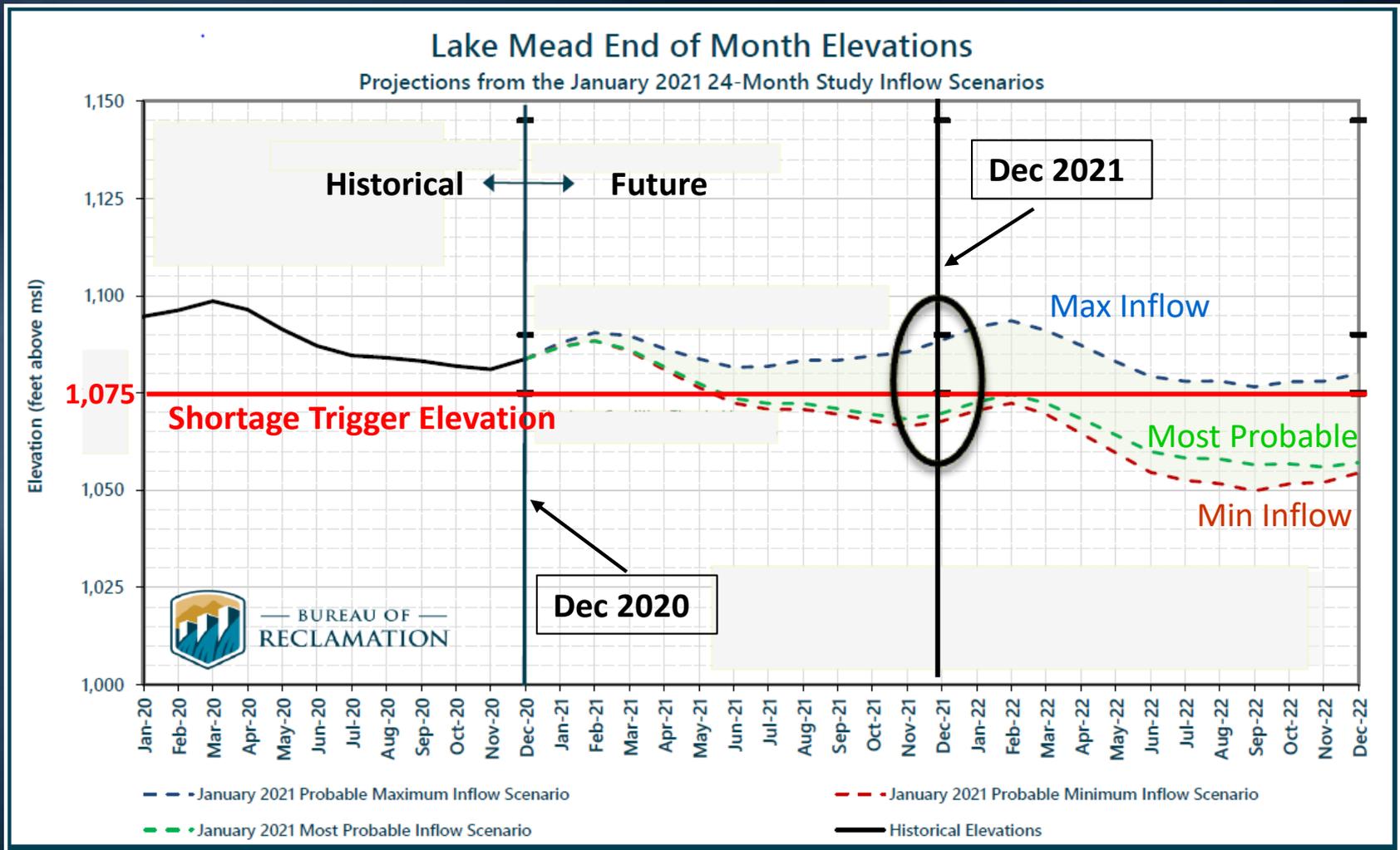
HOOPER DAM - LAKE MEAD

Reservoir Conditions and Operations

Month	1	2	3	4	5	6	7	8	9	10	11	12	Reservoir Elev. End of Month (FT)	ESM Storage (1000 AC FT)
Jan 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Feb 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Mar 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Apr 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
May 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Jun 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Jul 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Aug 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Sept 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Oct 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Nov 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Dec 2021	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Jan 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Feb 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Mar 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Apr 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
May 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Jun 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Jul 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Aug 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Sept 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Oct 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Nov 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108
Dec 2022	400	75	41	811	8.8	26	811	808	1086.47	8108			1086.47	8108

Model Run 01 20213
Processed On: 1/14/2021 01

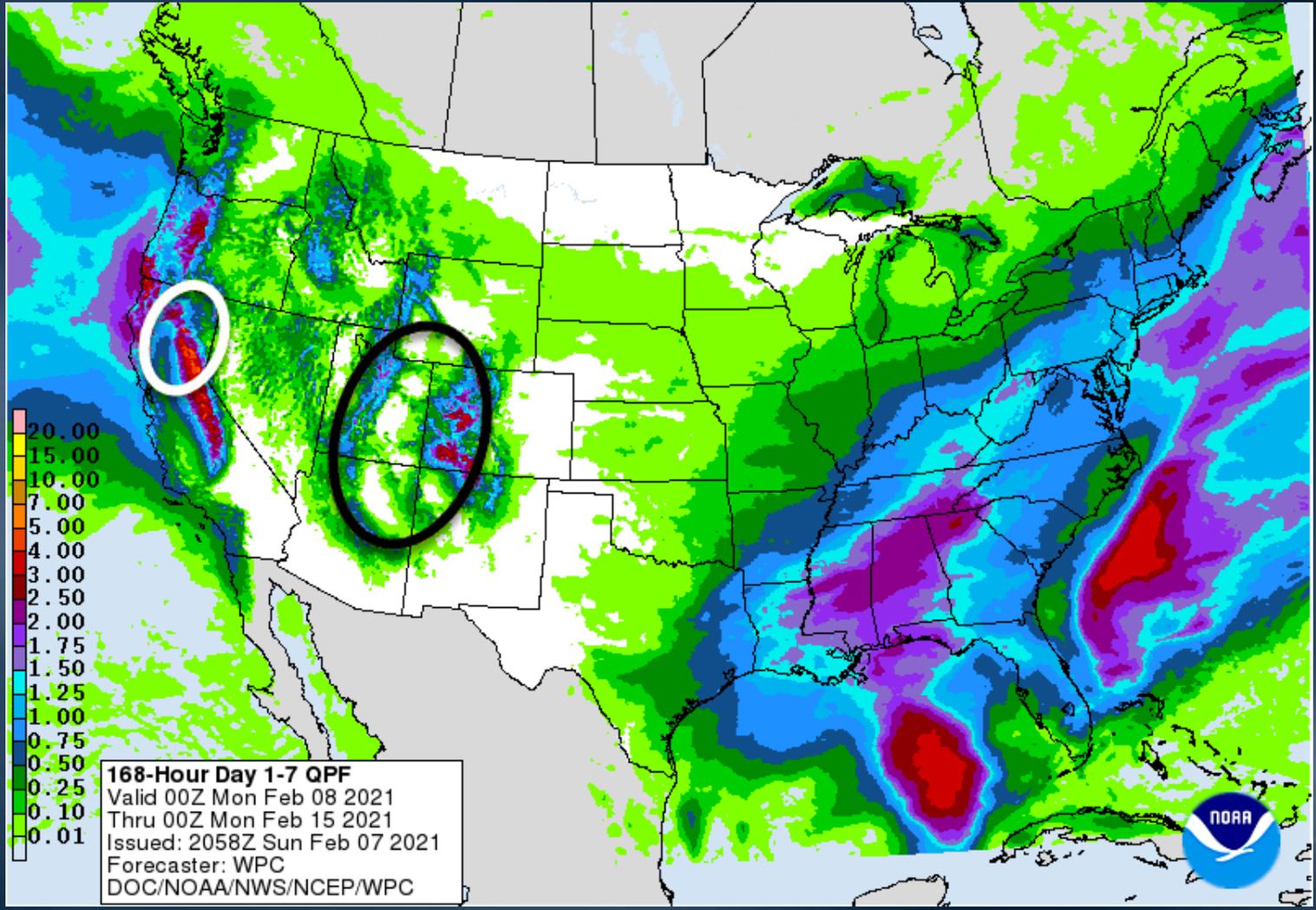
January 24-Month Study is Projecting a Potential First Ever Shortage for 2022



Weather Forecast

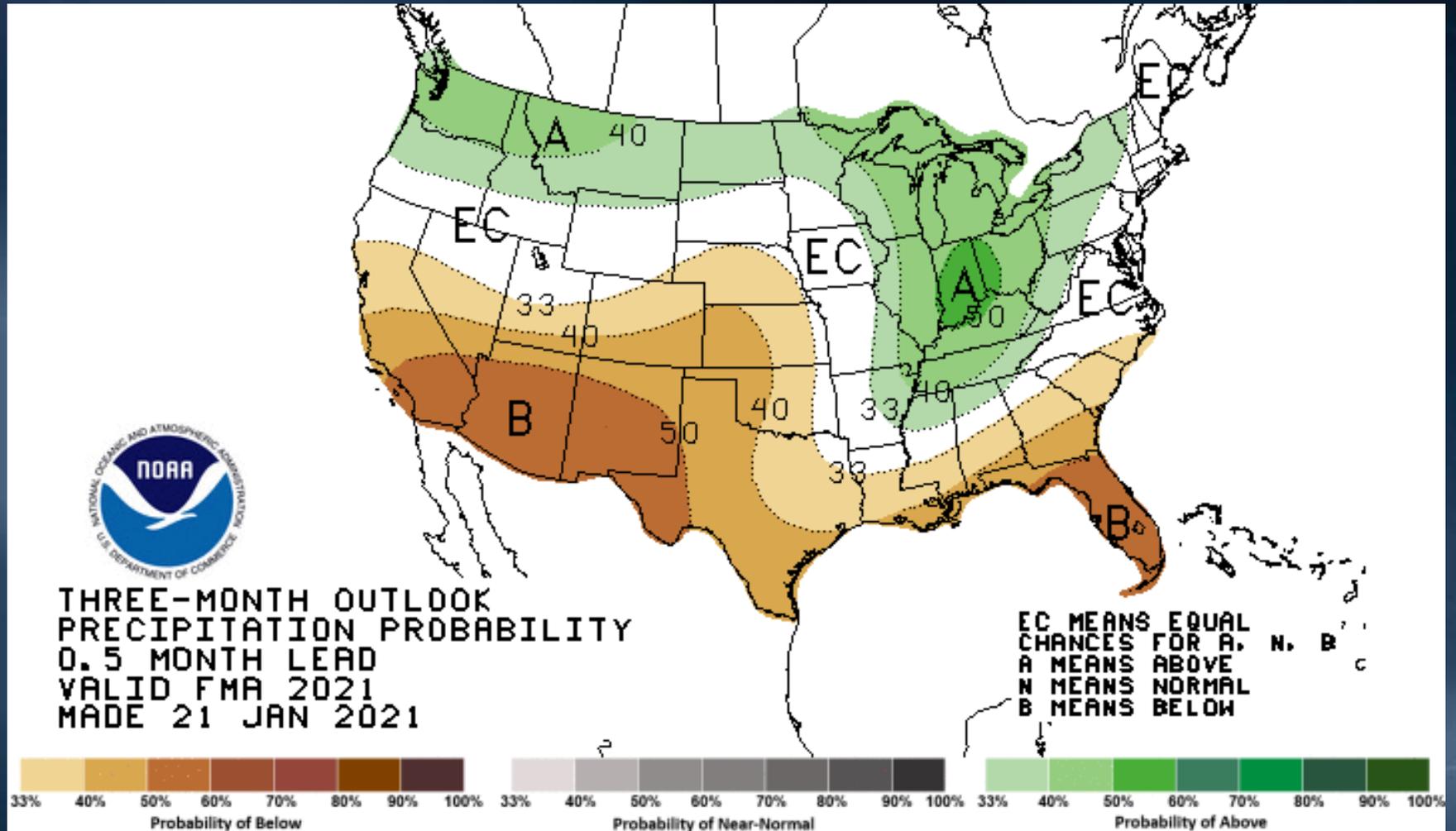
Precipitation in the 7-Day Forecast

February 8 – February 15



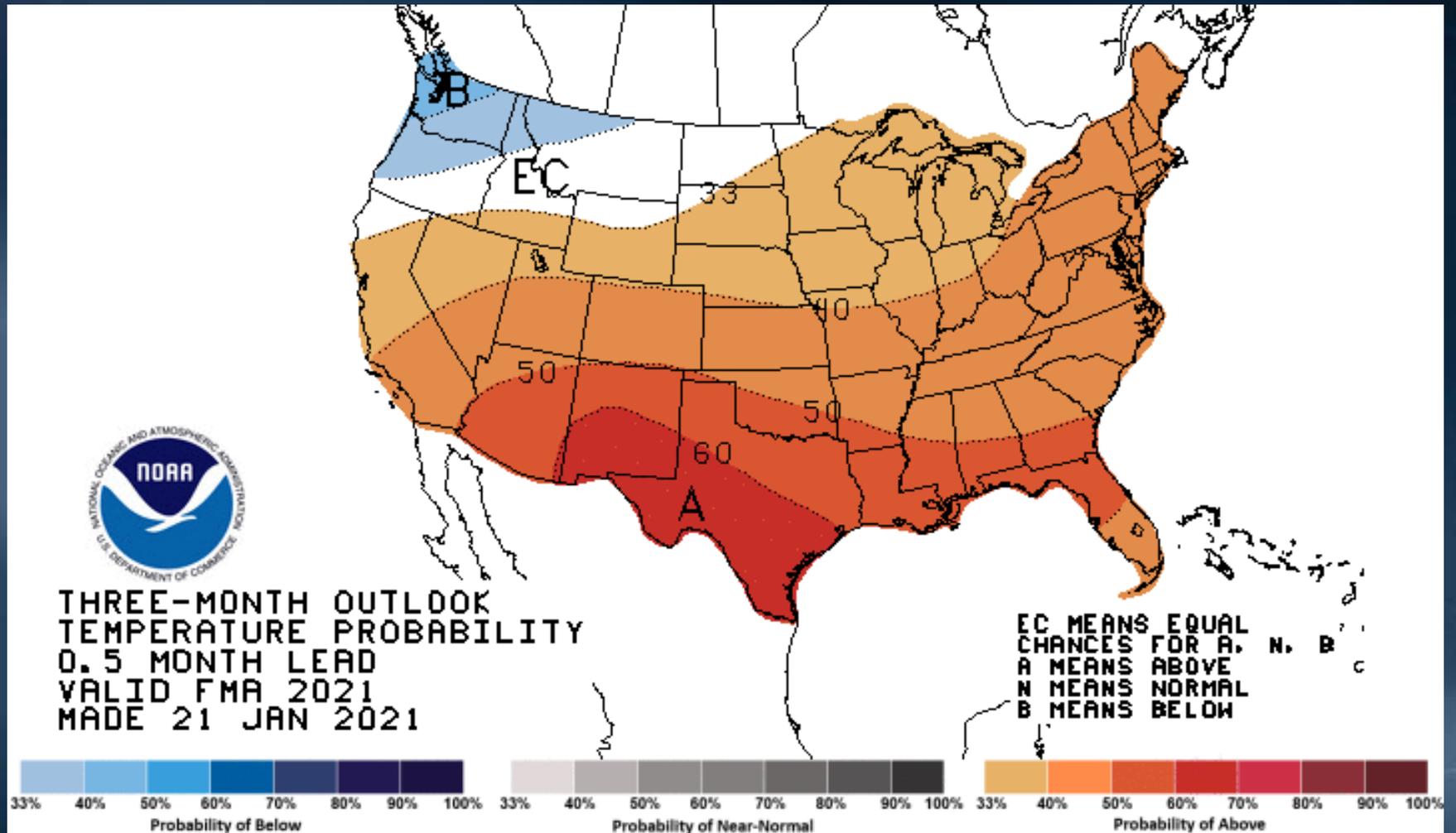
Three Month Outlook - Precipitation

Feb - Mar - Apr



Three Month Outlook - Temperature

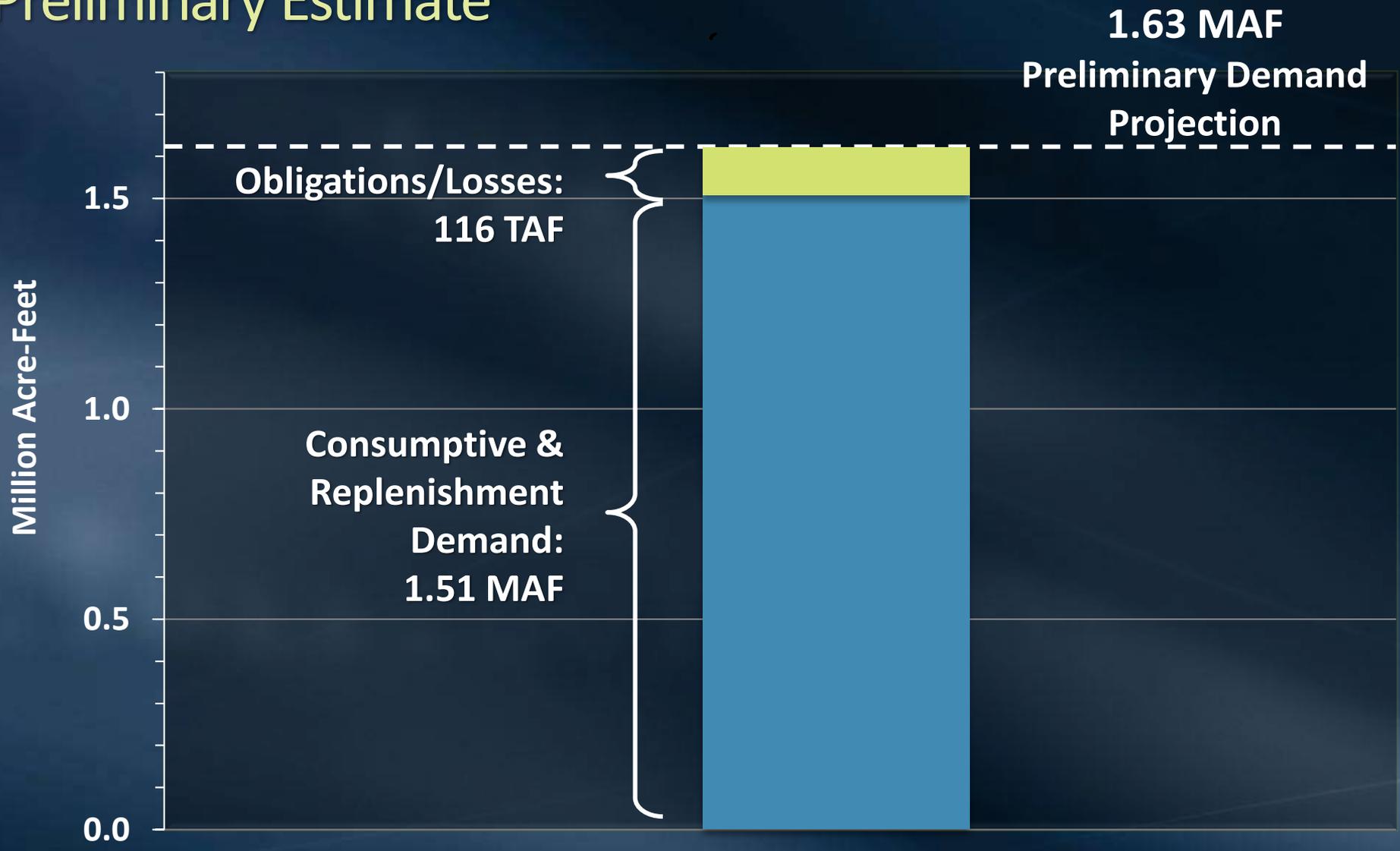
Feb - Mar - Apr



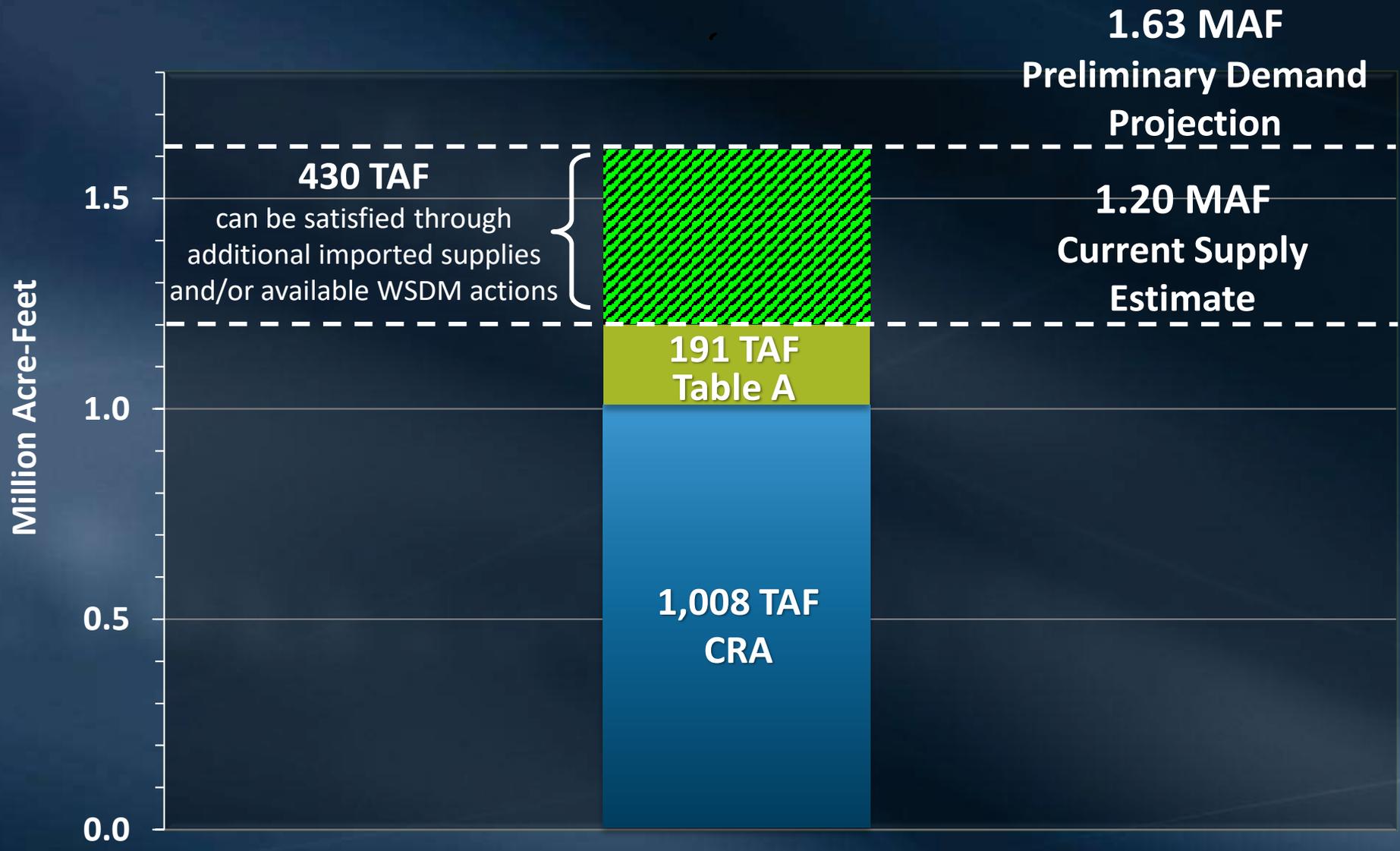
2021 Supply/Demand Balance

2021 Demand Breakdown

Preliminary Estimate

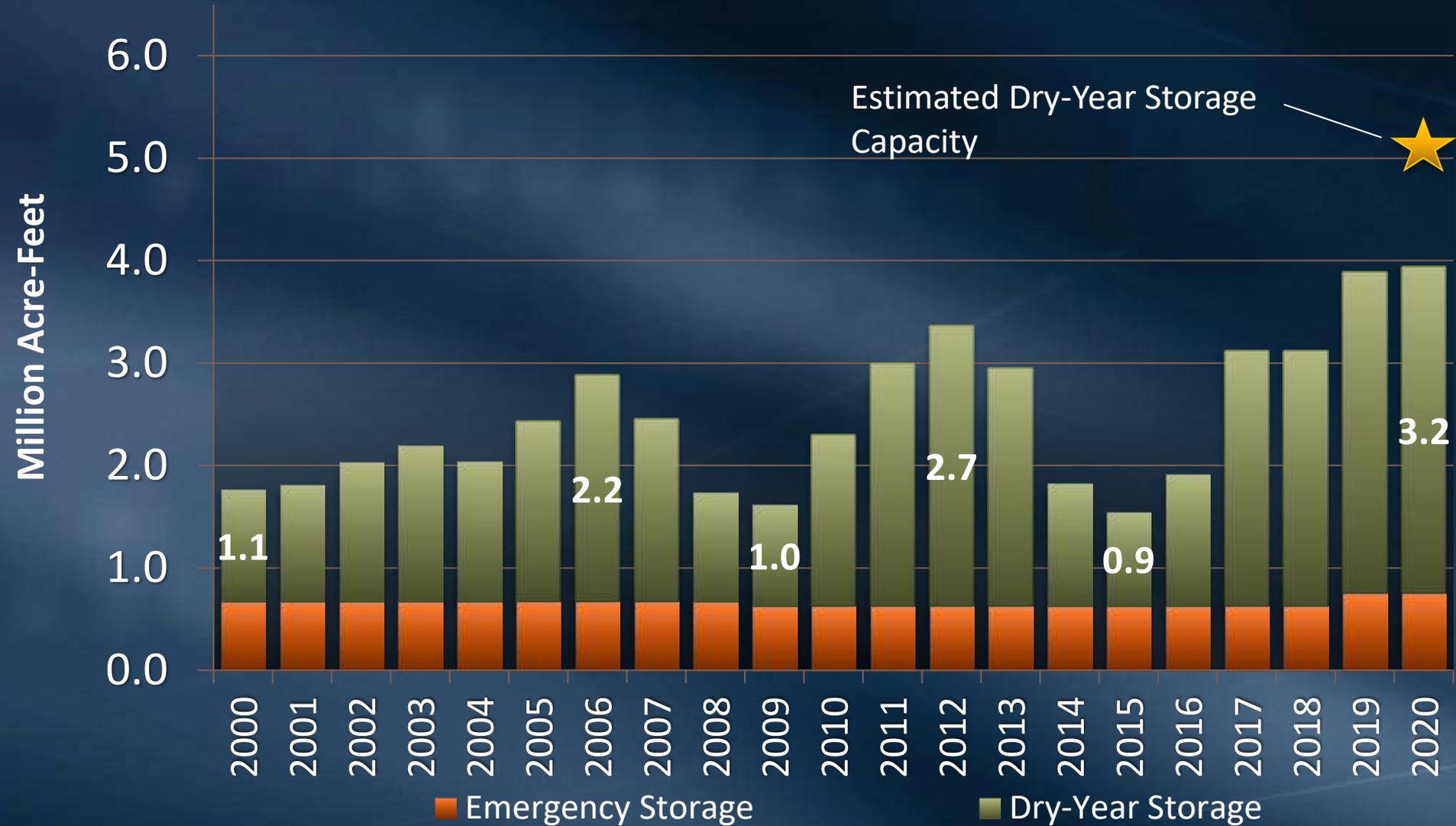


2021 Supply/Demand Balances



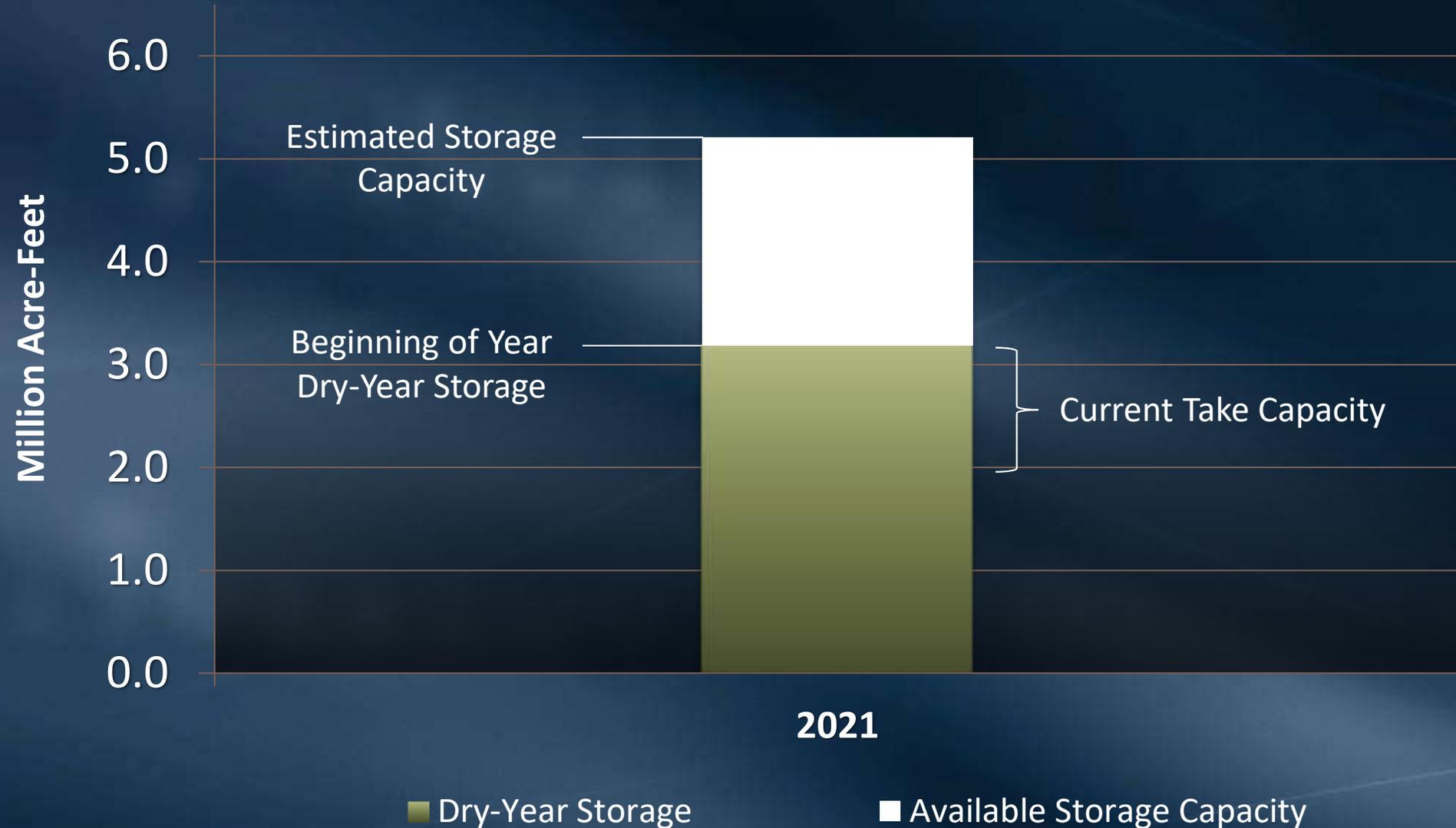
Metropolitan Storage Balances

End of Year Balances



Projected Metropolitan Storage Balance

End of Year Balances



Considerations for Available Storage Capacity

- Total capacity fluctuates year-to-year
- Storage widely distributed
 - State Water Project, Colorado River, In-Basin
 - Groundwater, surface water
 - Annual operation varies widely
- Annual put-and-take capacities vary
 - Contract, year type, timing, cost, and water quality
- Managed through WSDM process

Summary

- Recent California storms may not be enough to maintain current SWP allocation
- Increases to the SWP allocation will depend on improved hydrologic conditions
- Early forecast indicates first shortage declaration projected for 2022 for the Colorado River System
- There are sufficient WSDM actions to satisfy the supply demand gap currently projected for 2021

