



Update on Water Surplus and Drought Management

Water Planning and Stewardship Committee

Item 6a

July 12, 2021

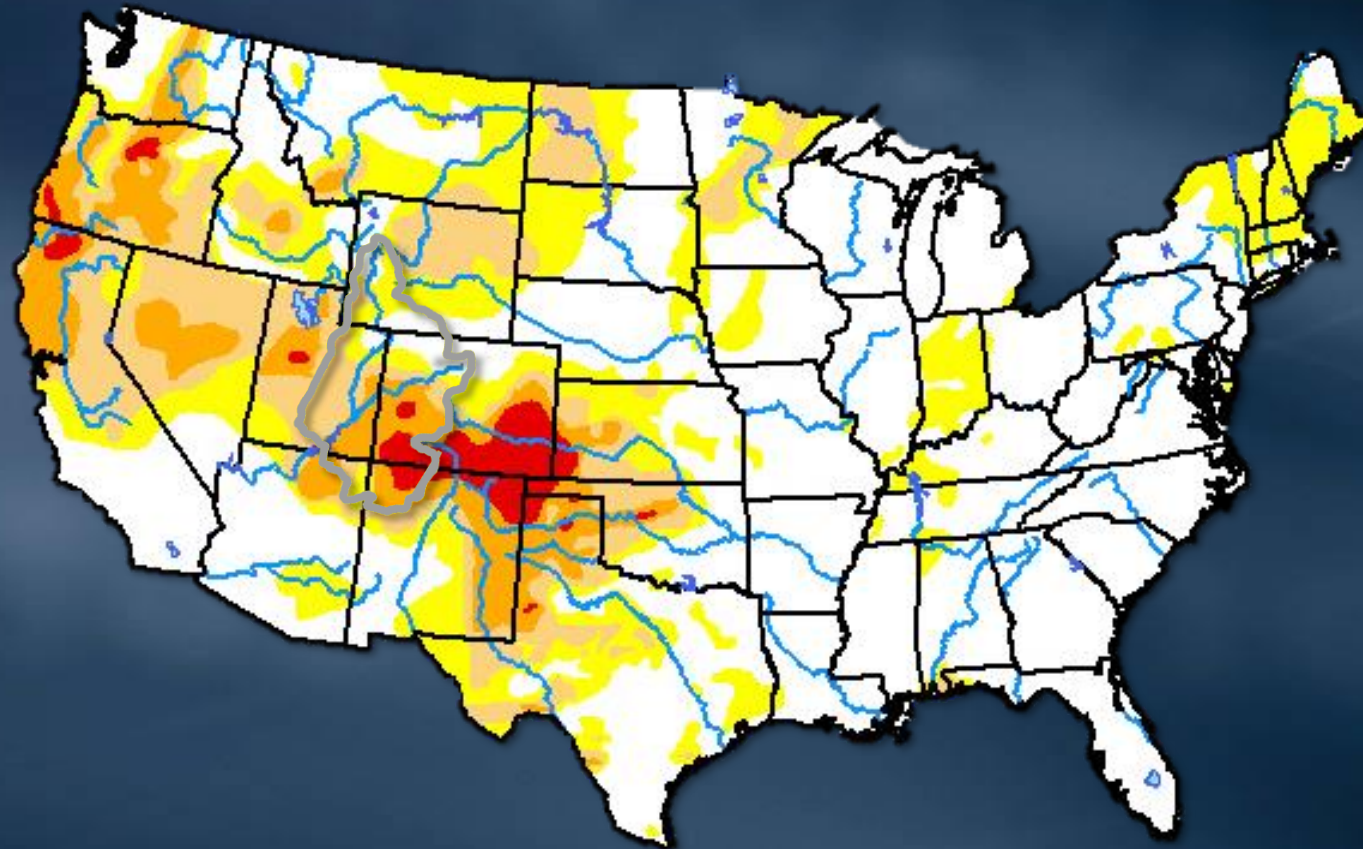
Outline

- Drought Conditions
- Supply Update
- 2021 Supply and Demand Balance
- State Actions in Response to Drought
- Dry-Year WSDM Actions Underway

Drought Conditions

Drought Conditions Last Year

As of 6/17/2020

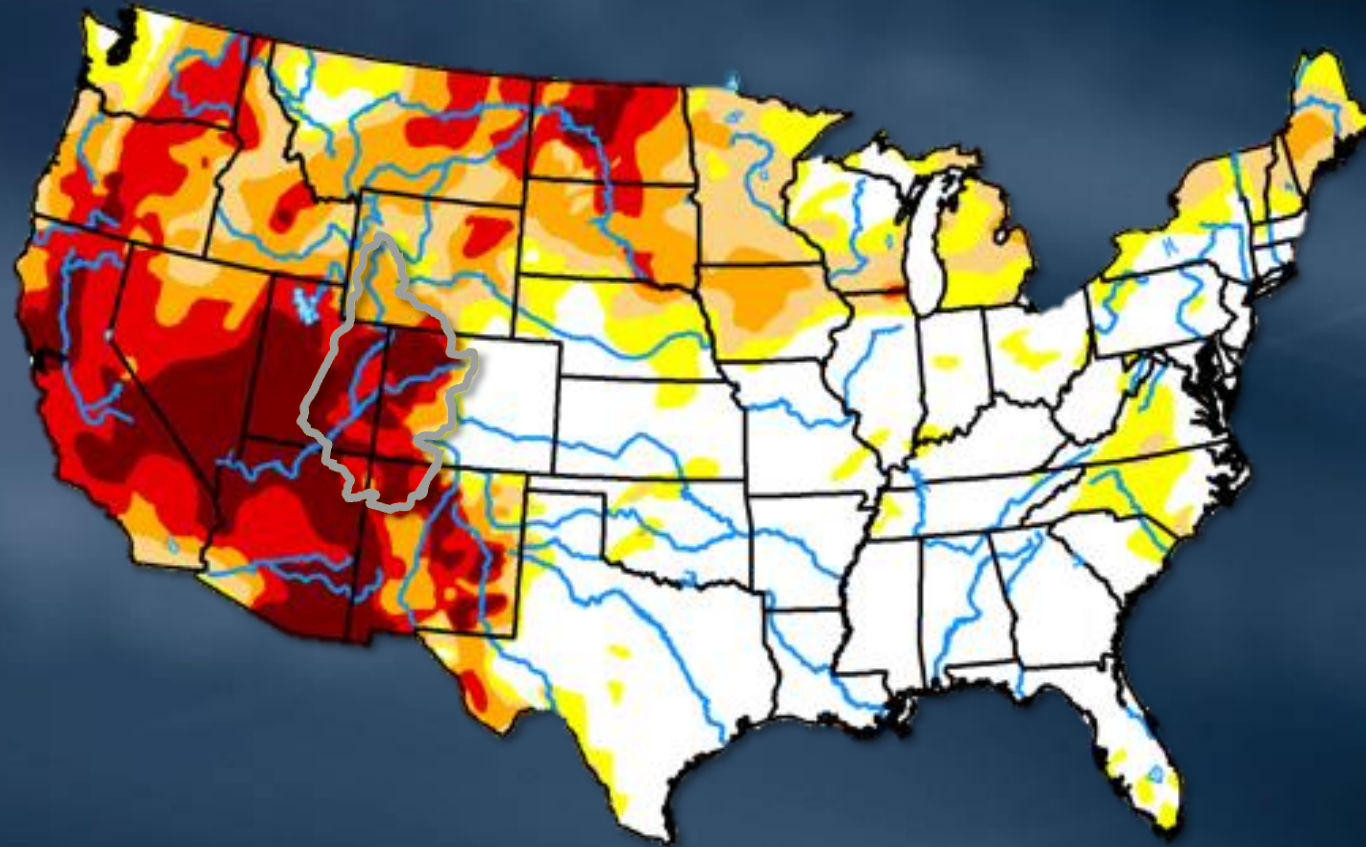


Intensity

-  None
-  Abnormally Dry
-  Moderate Drought
-  Severe Drought
-  Extreme Drought
-  Exceptional Drought

Intense Drought Conditions Present in the West

As of 6/29/2021



Intensity



Supply Update

Lake Oroville in 2019



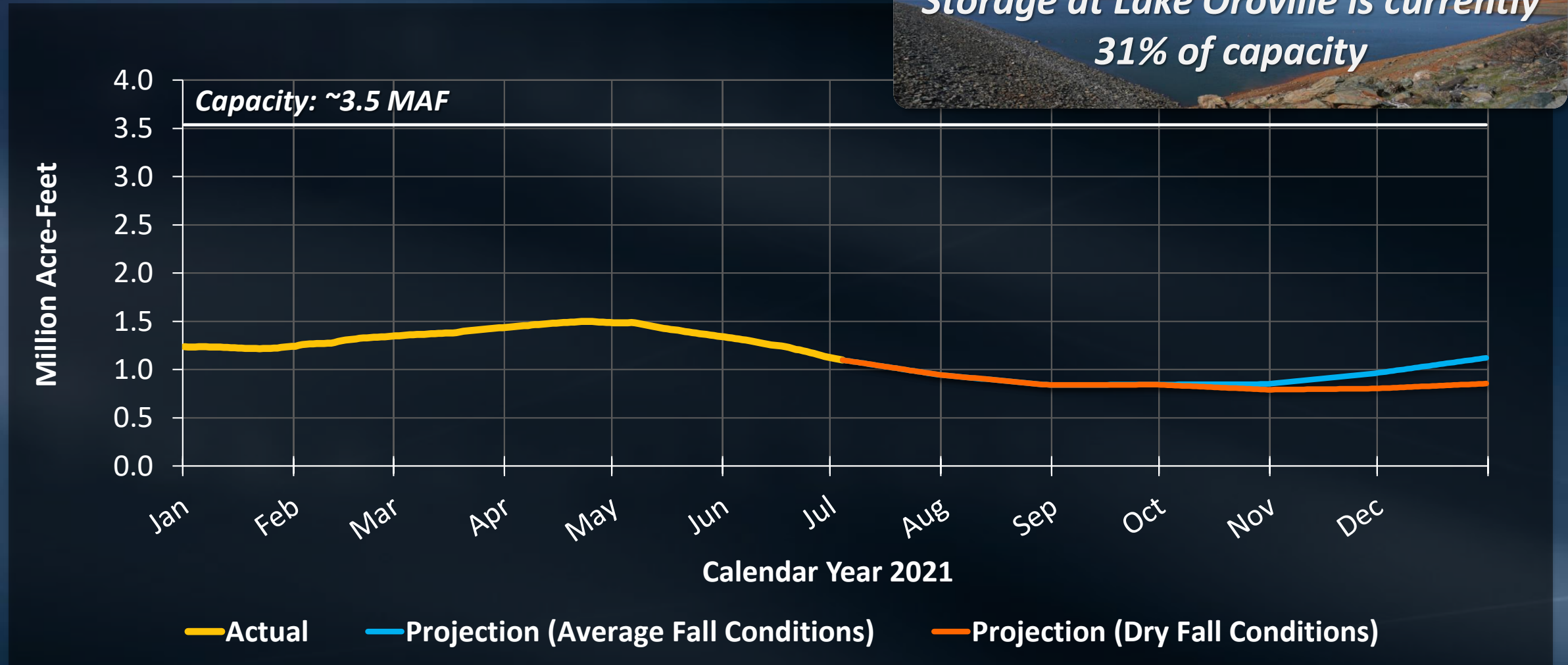
Lake Oroville This Year



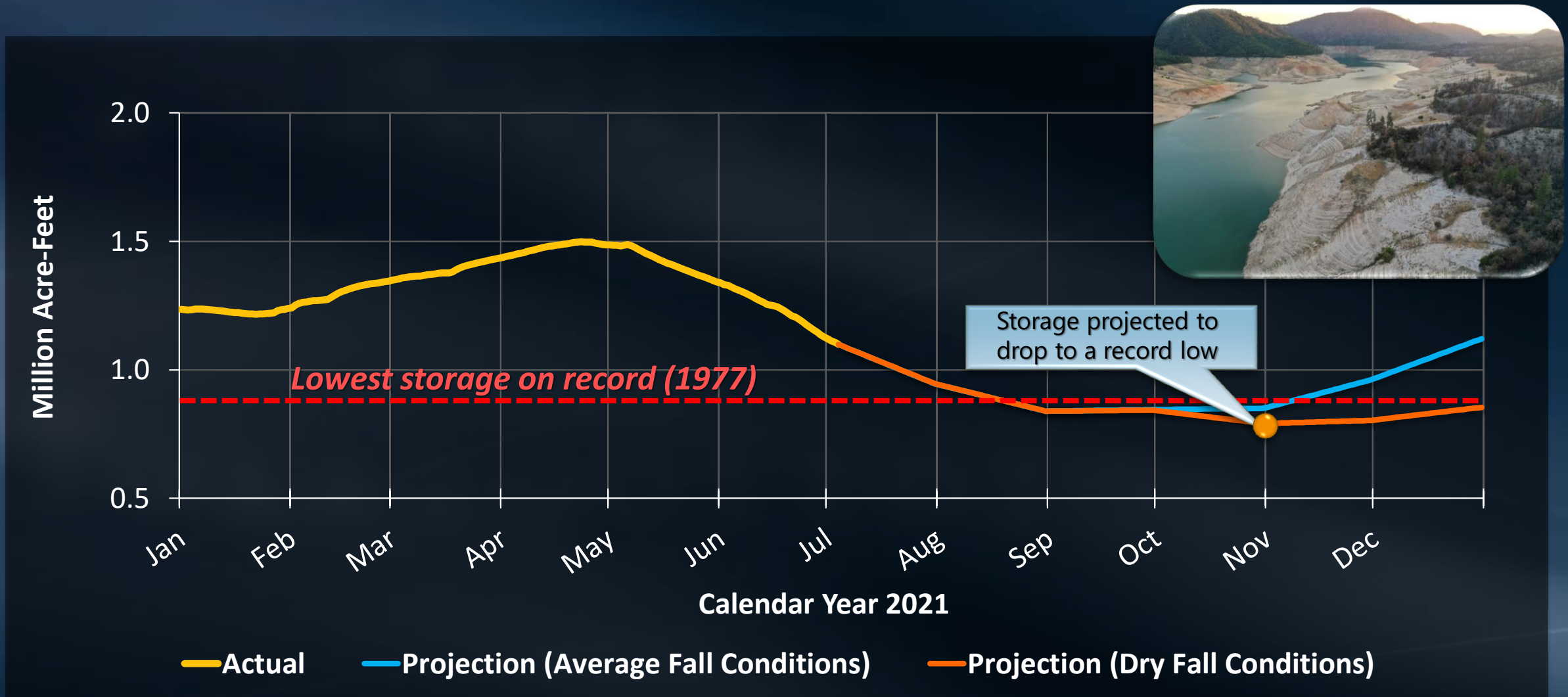
*Burn area from the
North Complex Fire
in 2020*

Actual and Projected Storage in Lake Oroville

As of 7/4/2021

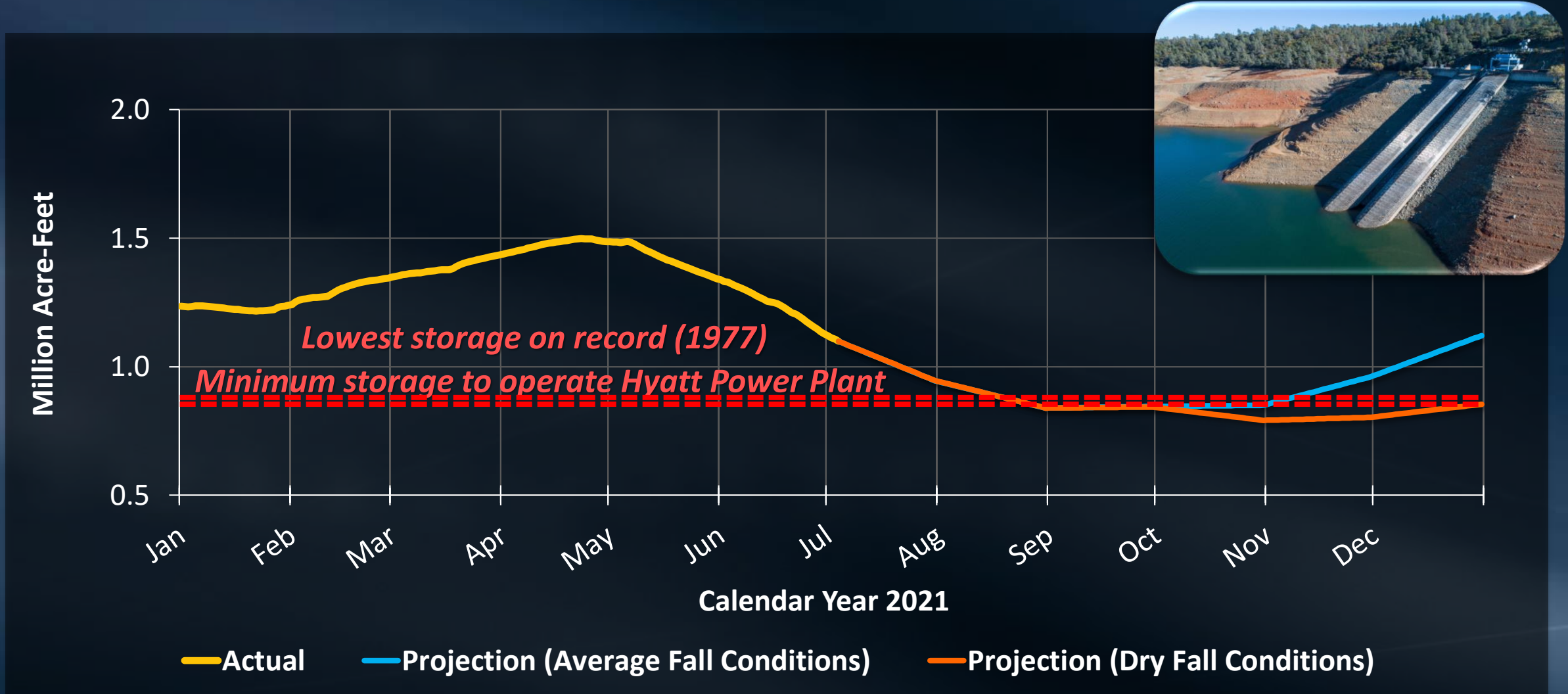


Projected Record Low Storage in Lake Oroville



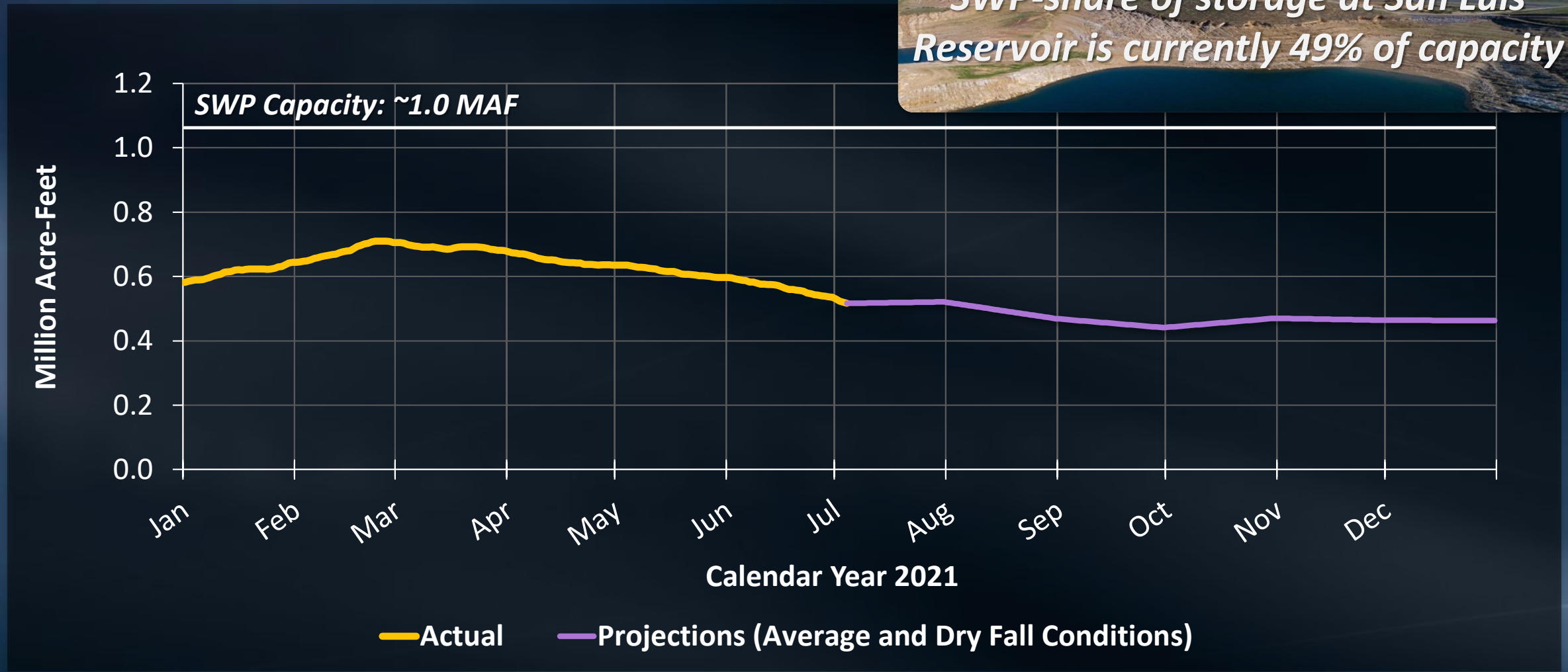
Projected Record Low Storage in Lake Oroville

Projecting No Access to Power Generation





Storage in San Luis Reservoir

As of 7/4/2021




Drought Conditions Prompt Restrictions for Some Delta Water Right Holders

- SWRCB sent notices to
 - 4,300 post-1914 water right holders of water unavailability
 - 2,300 pre-1914 water users with senior rights to inform them that continued drought could impact their ability to divert
- Transfer supplies at risk



GAVIN NEWSOM
GOVERNOR



JARED BLUMENFELD
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

June 15, 2021 Water Right ID Login: «WR_ID»
Password: «RMS»

«MAIL_RECEIVER_NAME»
«MAIL_RECEIVER_ADDRESS»
«CITY», «STATE» «ZIP»

In Regard to Water Right: «WR_ID»
Primary Owner: «PRIMARY_OWNER»

**NOTICE OF WATER UNAVAILABILITY FOR POST-1914 WATER RIGHT HOLDERS
AND WARNING OF IMPENDING WATER UNAVAILABILITY FOR PRE-1914 AND
RIPARIAN CLAIMANTS IN THE SACRAMENTO-SAN JOAQUIN DELTA
WATERSHED1**

State Water Resources Control Board (State Water Board or Board) records show you hold a «WR_TYPE». Please note that you will be receiving a similar notice for each water right or claim for which you are listed as the mail receiver.

Current information indicates that, as of the date of this letter, water supply in the Sacramento-San Joaquin Delta (Delta) watershed is insufficient to support lawful diversion under any post-1914 appropriative water right. While water may be physically present at post-1914 appropriative water right holders' points of diversion, that water is expected to either be needed by more senior water right claimants downstream or to consist of storage releases necessary to meet other downstream purposes, such as salinity control in the Delta.

Information also indicates that water will become unavailable this summer for some **pre-1914 appropriative water right claimants and riparian claimants.** The State Water Board is currently in the process of evaluating the seniority at which water may be unavailable for pre-1914 appropriative and riparian claimants, and when, and plans

California's Response to Deepening Drought

Governor issued Drought Proclamation and Executive Order on July 8, 2021

- Expands drought emergency to include 9 additional counties
- Calls for the public to voluntarily cutback water use by 15% from 2020 levels
- Commits to working with the legislature for \$5.1 billion budget for drought preparedness



- Initial 2 Counties from April
- Counties Added in May
- Counties Added in July

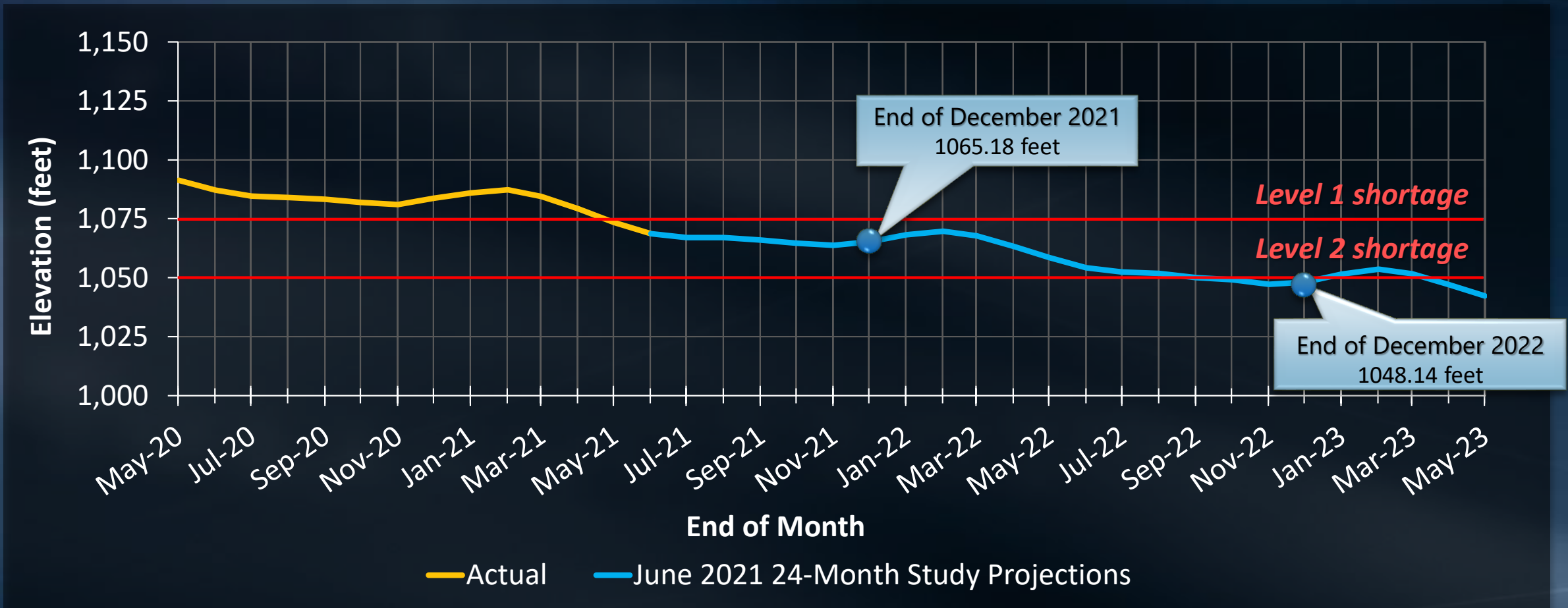
Low Initial SWP Allocation Anticipated for 2022

- Key considerations
 - Available SWP supplies in Oroville and San Luis Reservoirs
 - Assume dry hydrologic conditions for remainder of the year
 - Contractor demands
- Initial SWP allocation to be released in December

Lake Mead's Water Level Drops to a Record Low Since It Was Filled in the 1930's



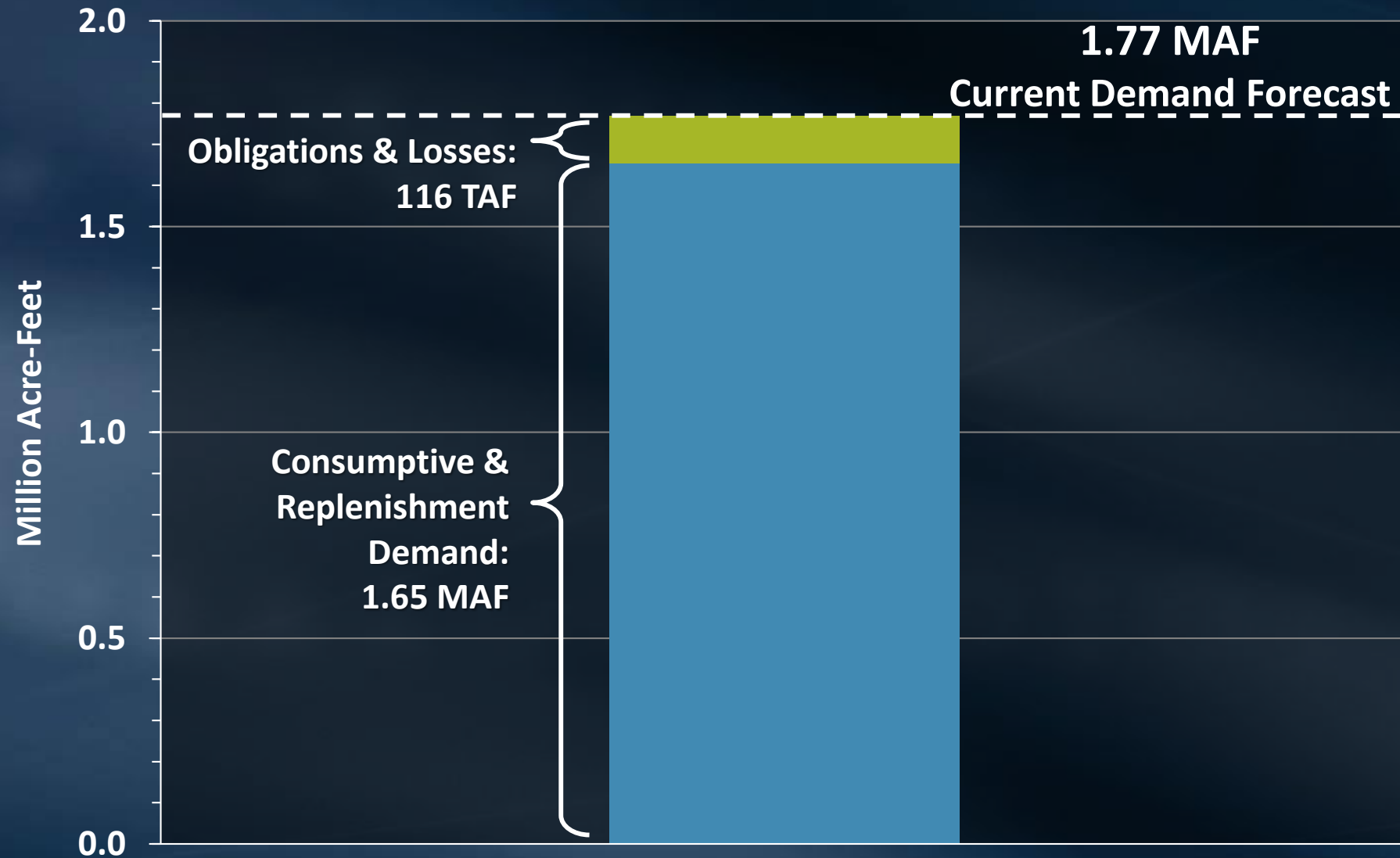
USBR's 24-Month Study Continues to Project Declining Lake Mead Elevation



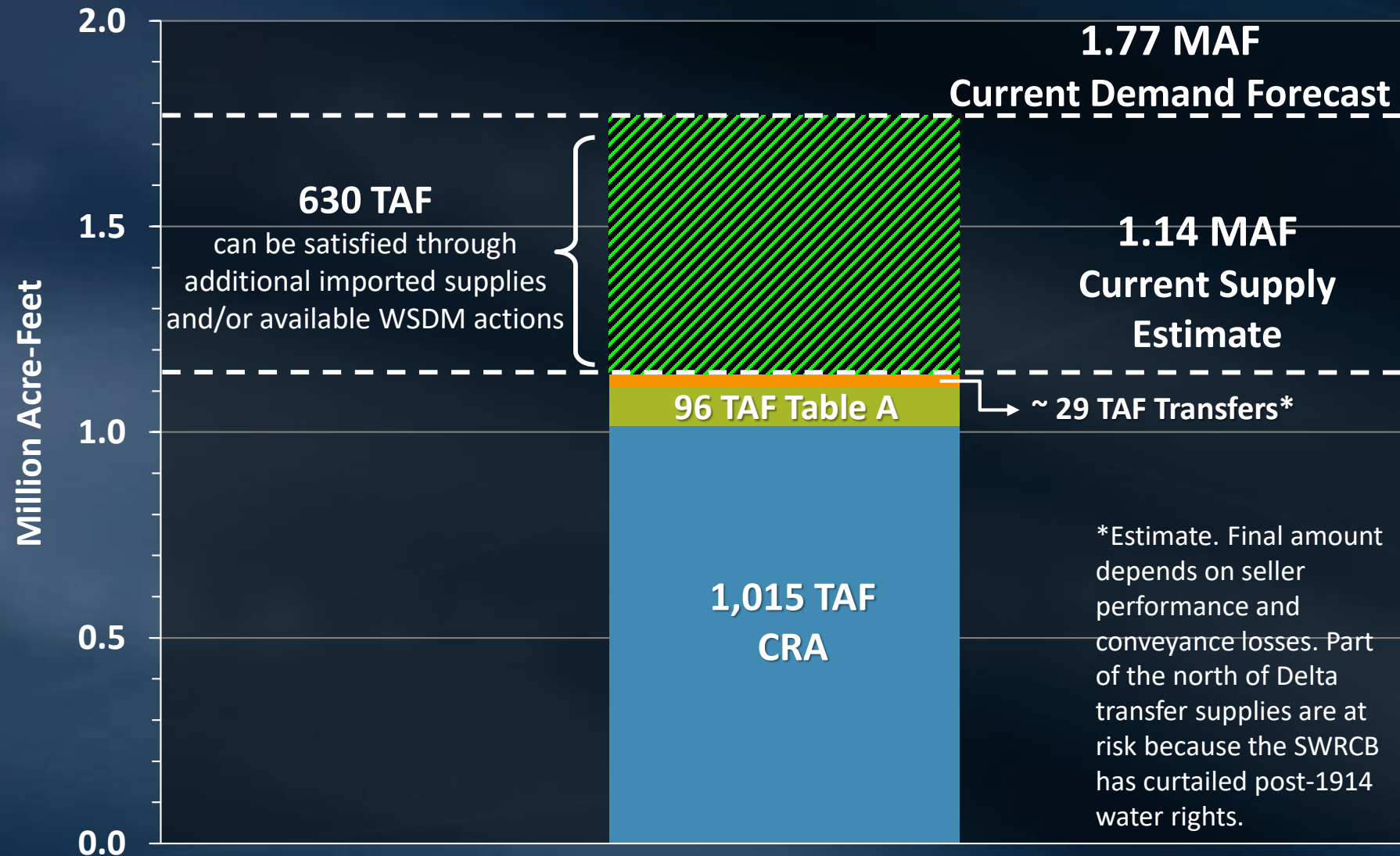
June 24-Month Study

2021 Supply/Demand Balance

2021 Demand Forecast



2021 Supply/Demand Balances



Dry-Year WSDM Actions

Dry-Year WSDM Actions Underway



- Purchasing ~42 TAF of transfer supplies (~29 TAF after losses)
 - State Water Contractors Buyers Group
 - Yuba Accord supplies
- Withdrawing from dry-year storage
 - Flex Storage (Castaic and Lake Perris)
 - Conjunctive Use Programs
 - SWP Groundwater Banking Programs
 - ICS and DWCVC Advanced Delivery Account

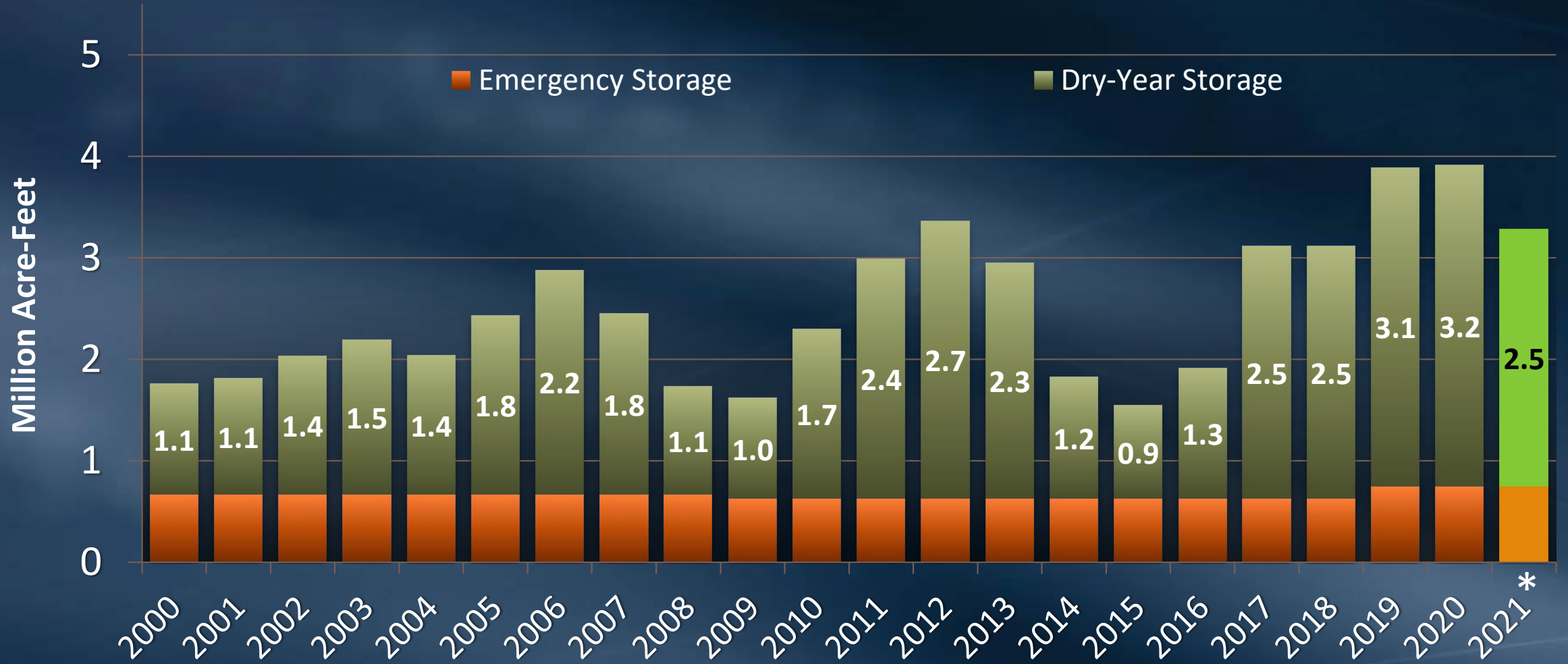
Ongoing Operational Actions and Member Agency Coordination to Preserve SWP Supplies



- DVL to Lakeview
- DVL to Mills
- Greg Ave Pumping
- Shifting agency demands

Projected Metropolitan Storage Balances

End of Year Balances



* Estimate – May change based on supply/demand conditions

Summary

- Intense drought conditions persist
 - Low storage in key reservoirs
 - Restrictions for some Delta water right holders
 - Governor Newsom expands drought emergency and calls for voluntary conservation
- Outlook
 - Low initial SWP allocation anticipated for 2022
 - USBR studies indicating first shortage declaration for 2022 for the Colorado River System
- Implementing WSDM and extraordinary drought actions to satisfy 2021 supply-demand gap and preserve SWP Carryover storage for 2022

