



Water Surplus and Drought Management Update

Water Planning and Stewardship Committee

Item 6a

April 12, 2021

Outline

- State Water Project Supply Update
- Colorado River Supply Update
- 2021 Supply and Demand Balances
- Dry-Year WSDM Actions Underway
- Water Supply Condition Framework

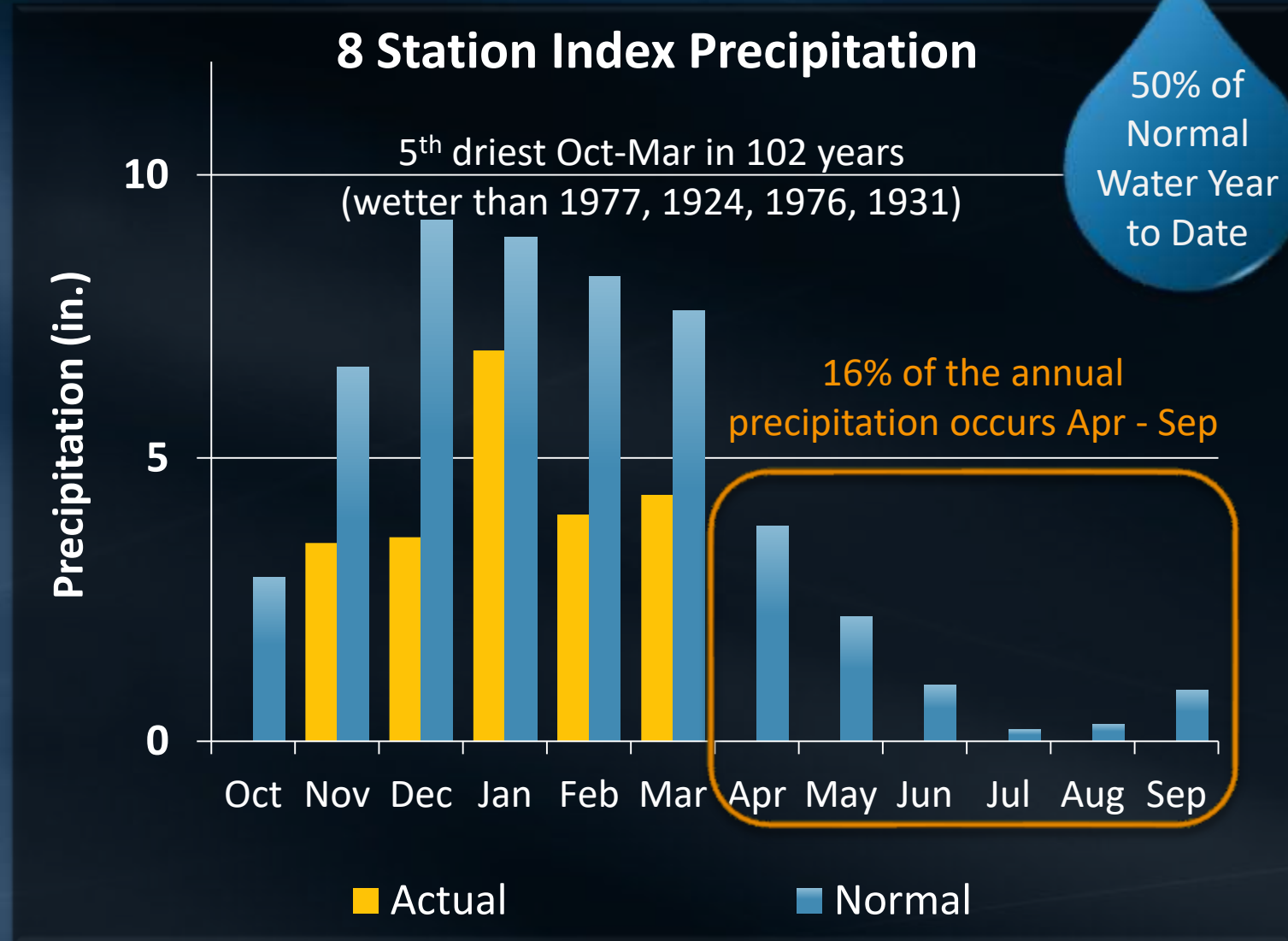
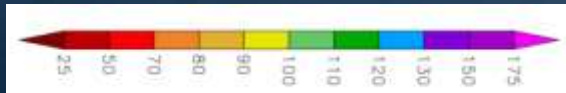
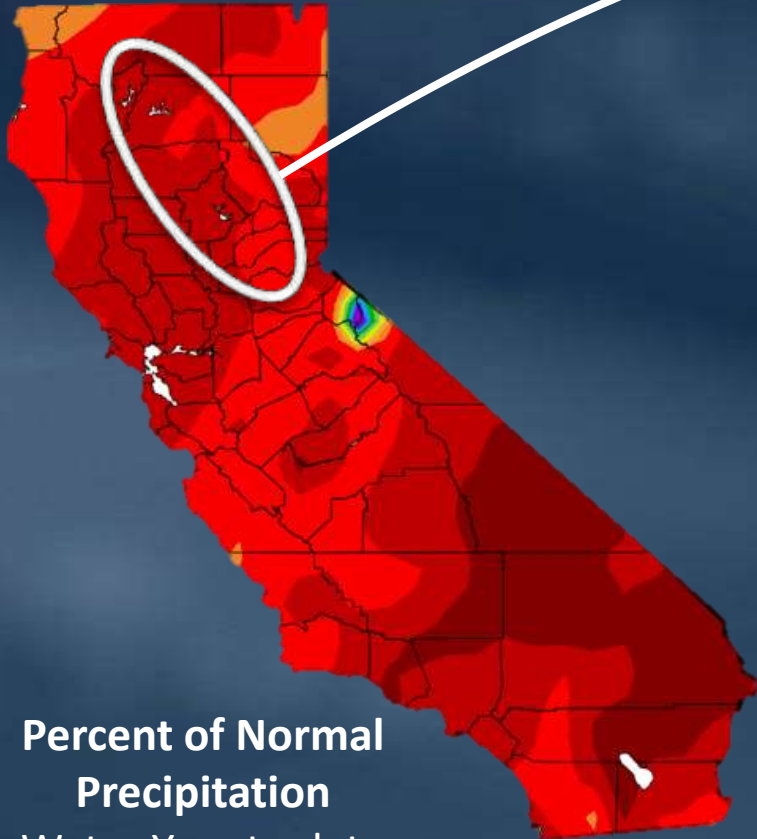
State Water Project Supply

DWR Reduces the SWP Allocation to 5 Percent Due to Ongoing Dry Conditions

- 5% in calendar year 2014
- Allocation reduced in prior years
- Allocation typically finalized by May

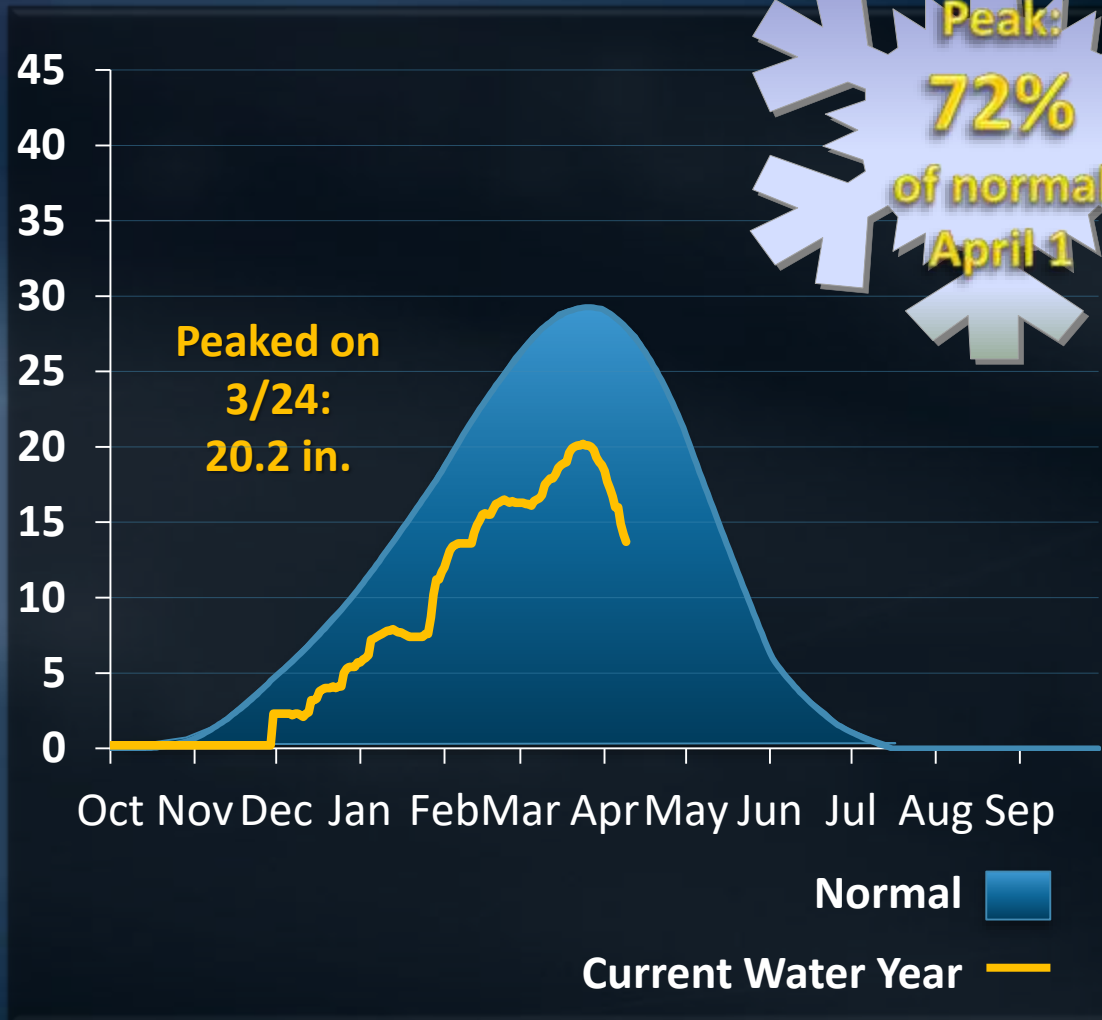
Below Normal Precipitation Statewide

As of 4/10/2021



Northern Sierra Snowpack Remains Below Normal

As of 4/10/2021



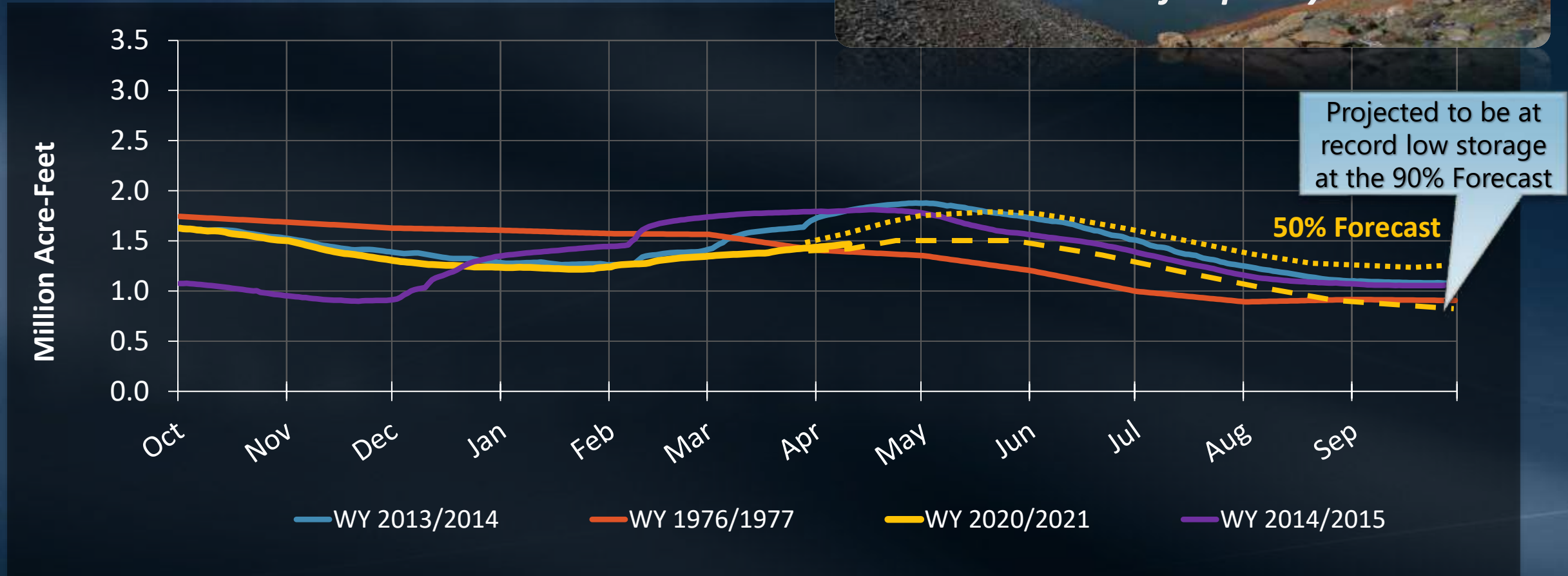
Peak:
72%
of normal
April 1



Water Year
Runoff
Projection
45%
of normal

No Storage in Lake Oroville to Support the Allocation

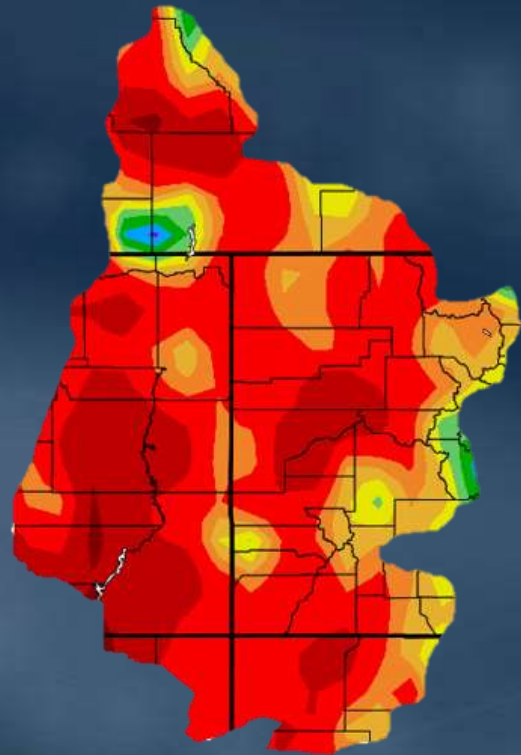
As of 4/10/2021



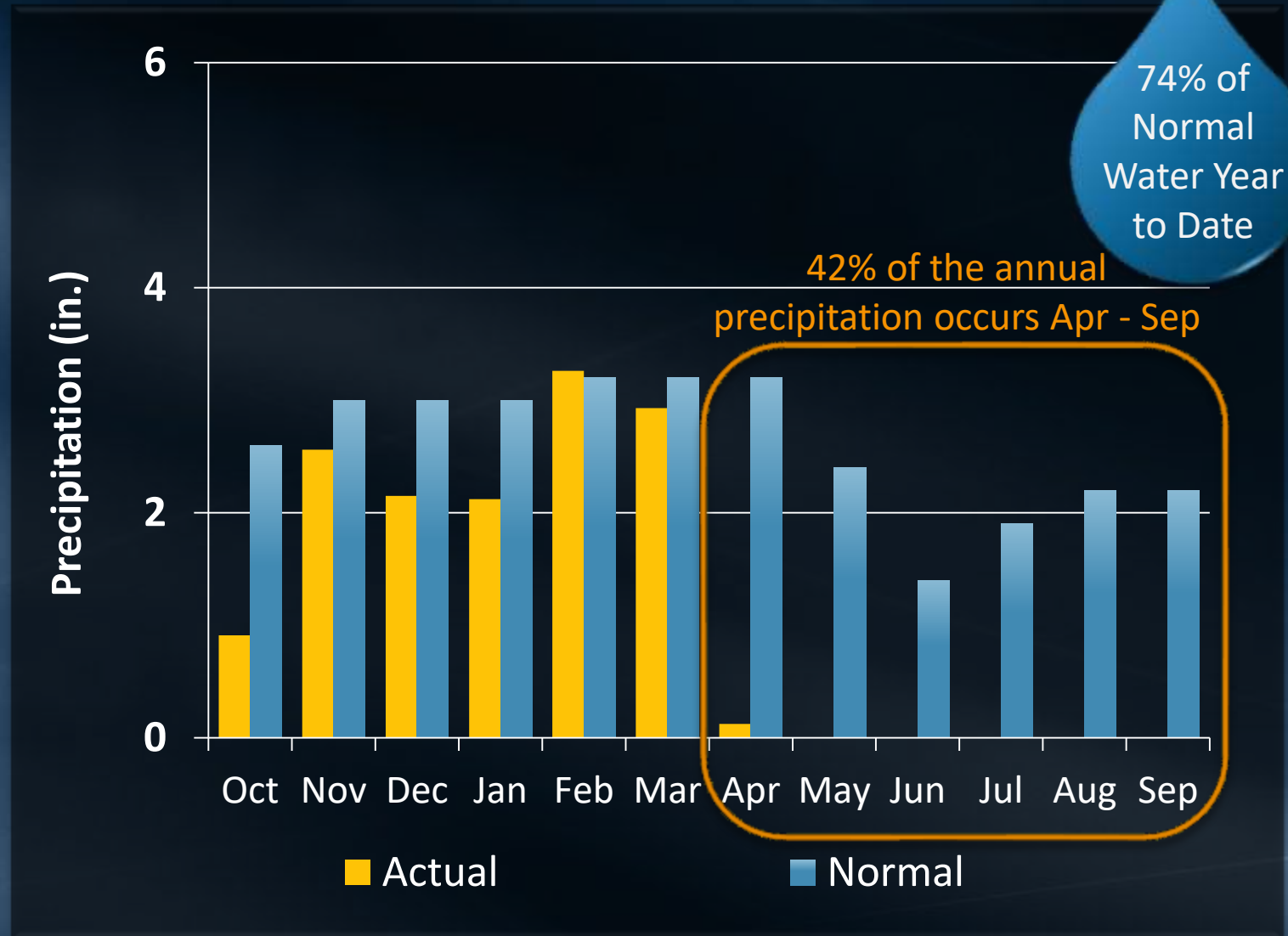
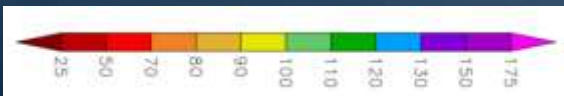
Colorado River Supply

Upper Colorado River Basin Hydrologic Conditions

As of 4/10/2021

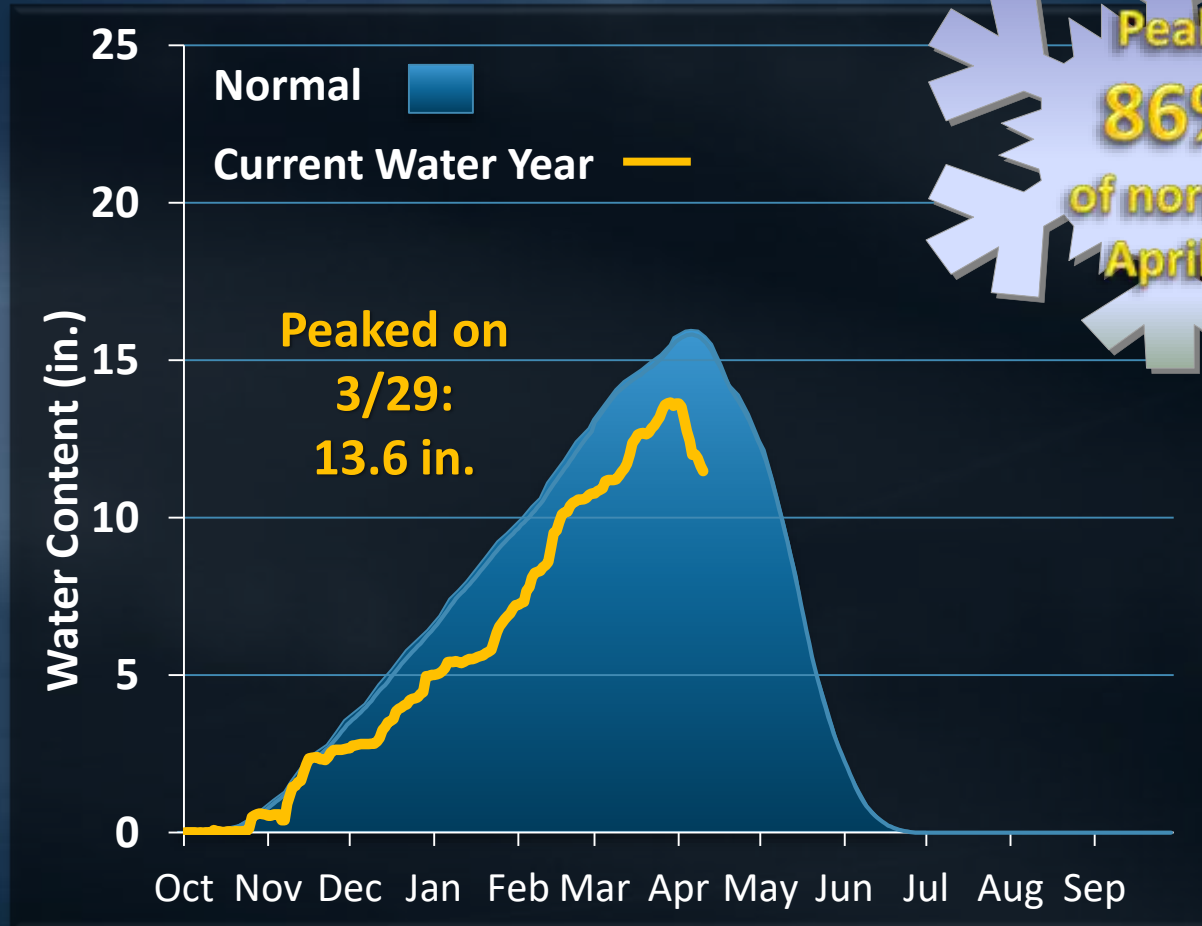


**Percent of Normal
Precipitation**
Water Year to date



Runoff Projected to Be Below Normal in the Upper Colorado River Basin

As of 4/10/2021



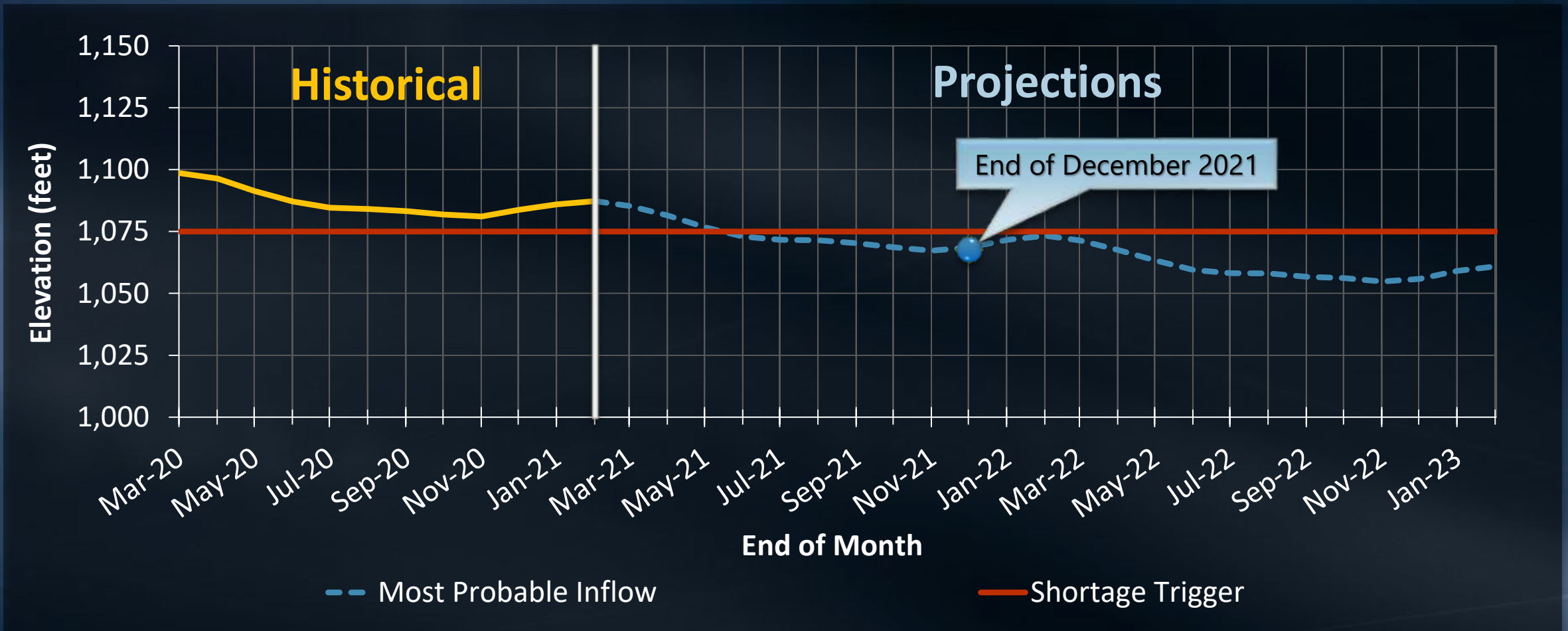
Peak:
86%
of normal
April 1

Water Year
Runoff
Projection
45%
of normal

The Continental Divide and the Upper Colorado River Basin



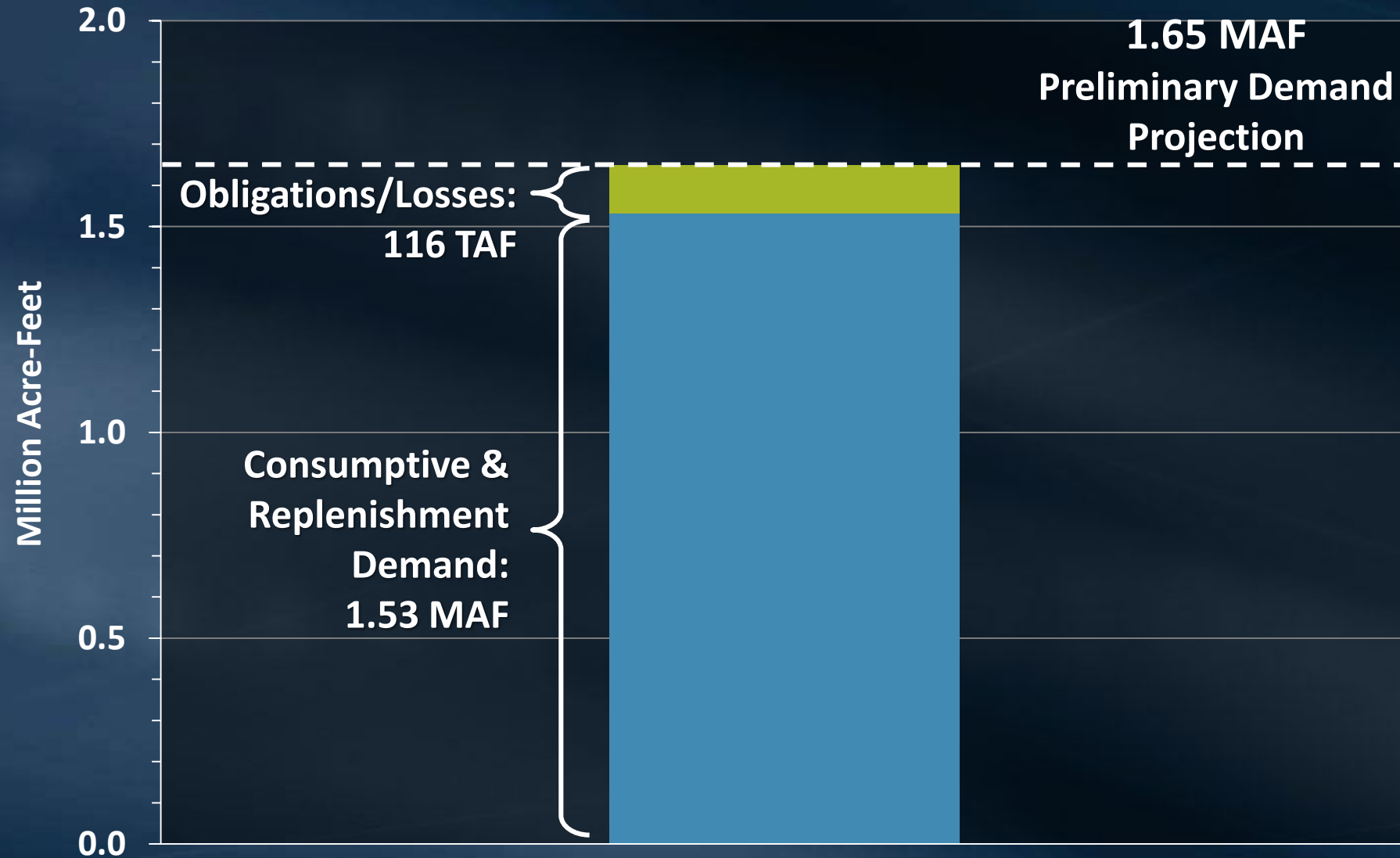
USBR's 24-Month Study Continues to Project Declining Lake Mead Elevation



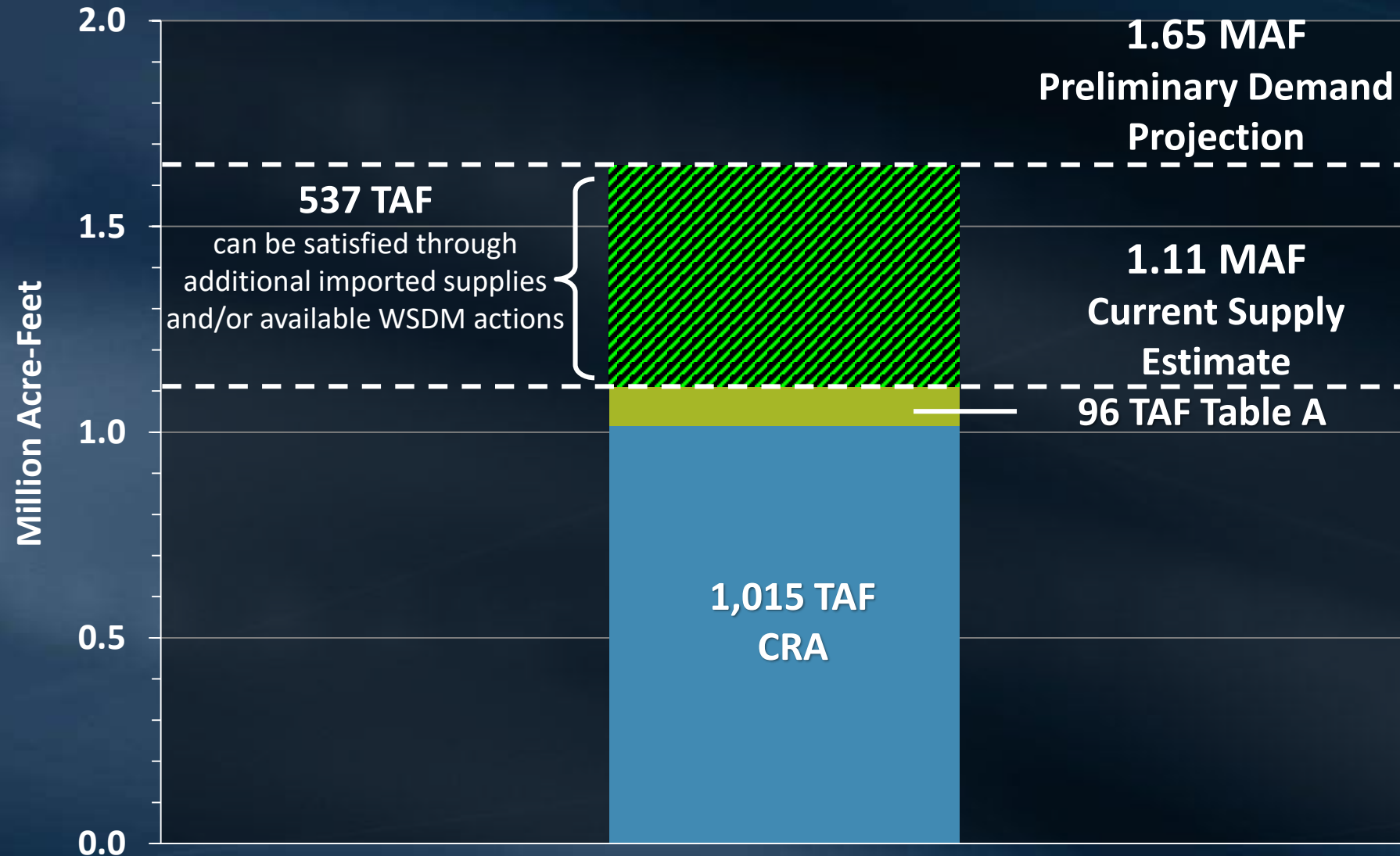
March 24-Month Study

2021 Supply/Demand Balance

2021 Demand Forecast



2021 Supply/Demand Balances



Dry-Year WSDM Actions Underway

Dry-Year WSDM Actions Underway



- Potential transfer supply purchases
 - 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 DWCV 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

Water Supply Condition Framework

Water Supply Condition Framework

- Adopted in 2008
- Purpose: To communicate the urgency of the region's water supply situation and the need for further water conservation practices
- Framework intended to encourage proactive steps to reduce the region's water demand to mitigate the need for more severe actions

The Water Supply Condition has 4 Components

<u>BASELINE</u> Water Use Efficiency	Ongoing conservation, recycling, and outreach to <u>build</u> storage
<u>CONDITION 1</u> Water Supply Watch	Local agency voluntary dry-year conservation measures and <u>use</u> of regional storage reserves
<u>CONDITION 2</u> Water Supply Alert	Regional call for conservation through drought ordinances and other measures to <u>mitigate use</u> of storage
<u>CONDITION 3</u> Water Supply Allocation	Implement Water Supply Allocation Plan: Level: 1 2 3 4 5 6 7 8 9...

Feb
2014

April
2015

May
2016

May
2017

Summary

- SWP allocation is 5%
- March forecast indicates first shortage declaration projected for 2022 for the Colorado River System
- Implementing WSDM actions to satisfy 2021 supply-demand gap and preserve SWP Carryover storage for 2022
- Currently at Condition 1 – Water Supply Watch

