



Update on Water Surplus and Drought Management

Water Planning and Stewardship Committee

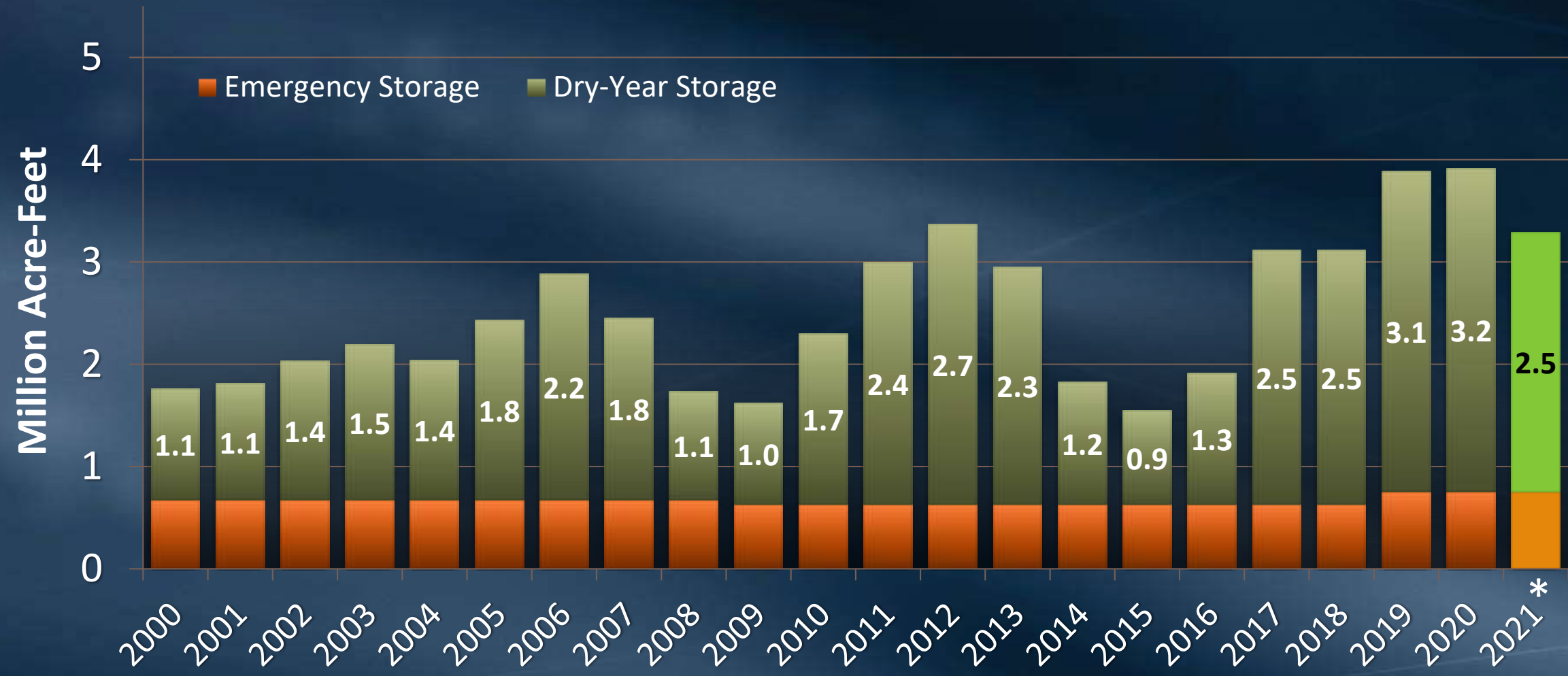
Item 6a

January 10, 2022

Outline

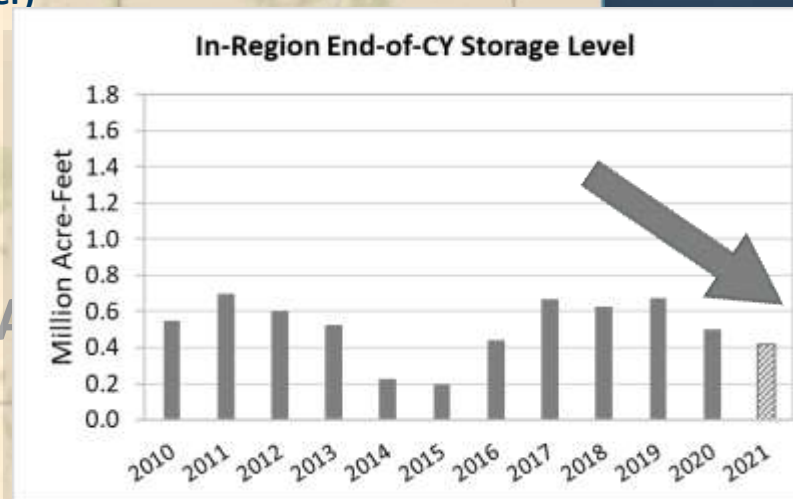
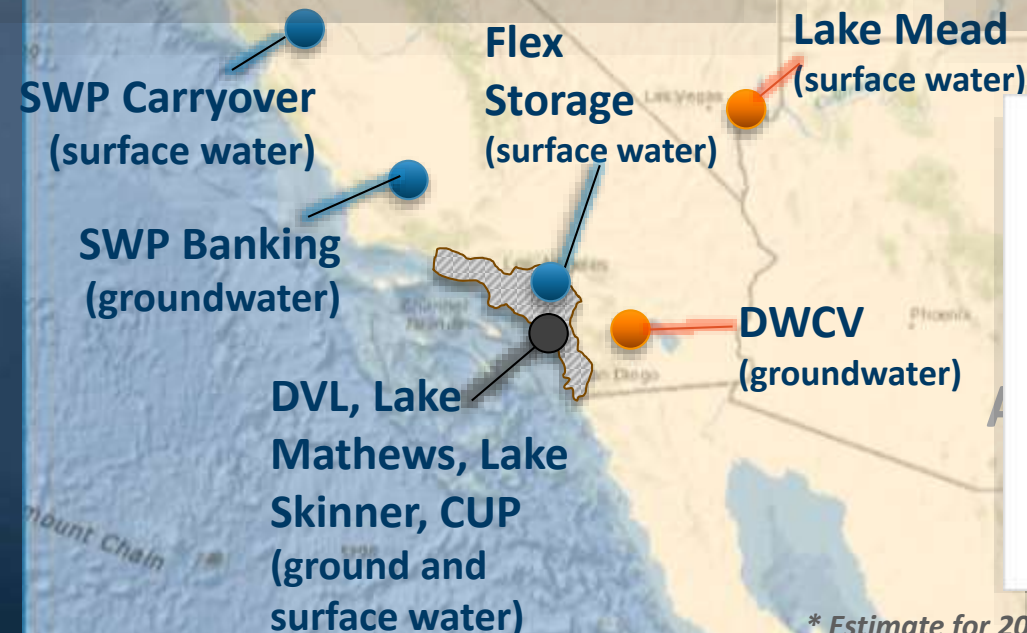
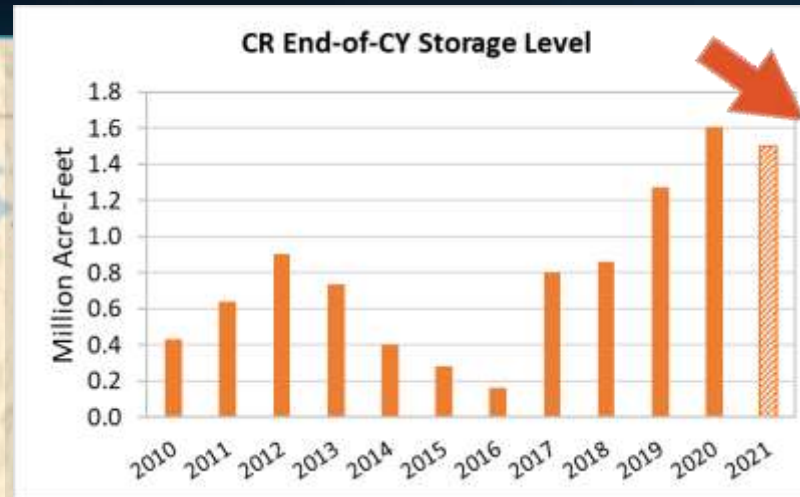
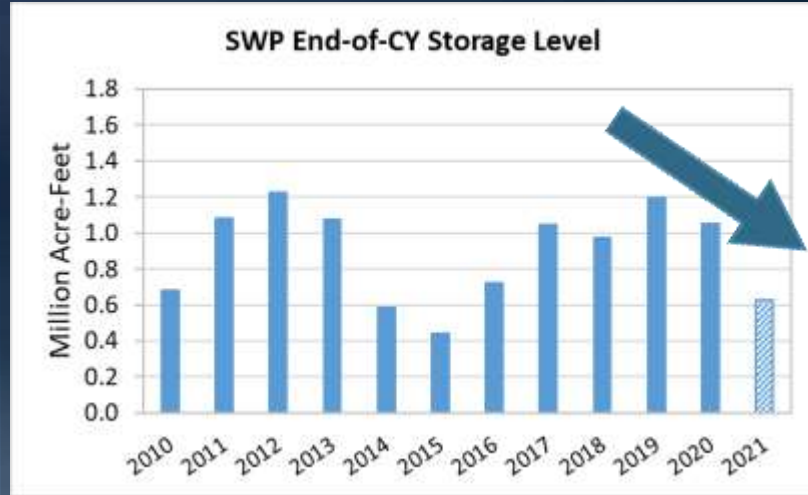
- End-of-Year 2021 Storage Balance Update
- 2022 Supply/Demand Outlook
- Hydrologic Conditions Update

End of Year Storage Balances



** Estimate – May change based on supply/demand conditions*

2021 end of year balances



** Estimate for 2021. Does not include emergency storage.*

Update:

- Higher priority water users increase consumption
- Lake Mead ICS net take in 2021
- End-of-year total storage balance: 2.54 MAF

Preparations for 2022

WSDM Actions

Execute actions and strategies to address annual supply/demand imbalances

- Withdraw from storage – within and outside of service area
- Purchase transfer supplies
- Increased water use efficiency messaging

Preparations for 2022, cont'd

Drought Actions

Develop and implement specific actions targeted to address unique drought conditions

SWP Dependent Areas

- **Operational/Institutional modifications**
 - Operational Cost Offset Program
 - Zero blends to preserve SWP supplies
- **Distribution modifications**
 - DVL to Lakeview and Mills
 - Greg Avenue Pump Station
- **Demand Management**
 - Emergency Drought Declaration
 - Outreach: Increased coordination with PIOs, custom ads, Point of Purchase Program, targeted social media
- **Supply Development**
 - Increased returns from Arvin Edison Exchange
 - Partnership with SDCWA – groundwater purchase
 - Partnership with SBMVWD - exchanges
 - IRWD storage draw

Preparations for 2022, cont'd

Coordination with the Department of Water Resources

Advocate for Metropolitan and SWP Contractor interests

- Worked with DWR to exercise a contract provision to allow delivery of Human Health & Safety (HH&S) water in the face of a zero percent Table A Allocation
- Developed a HH&S assessment methodology
- Support of Temporary Use Change Petition (TUCP) to allow relaxation of regulatory requirements should dry conditions persist
- Delivery of Perris Flexible supply from Castaic

DWR will deliver water in 2022

- Table A Allocation remains at zero percent
- DWR allocating water supplies based on unmet minimum Human Health & Safety (HH&S) Demands
- DWR expects to deliver 340 TAF for HH&S to SWP contractors who identified a need

Preliminary 2022 Supply/Demand Assessment



Regional Supply/Demand Balance:

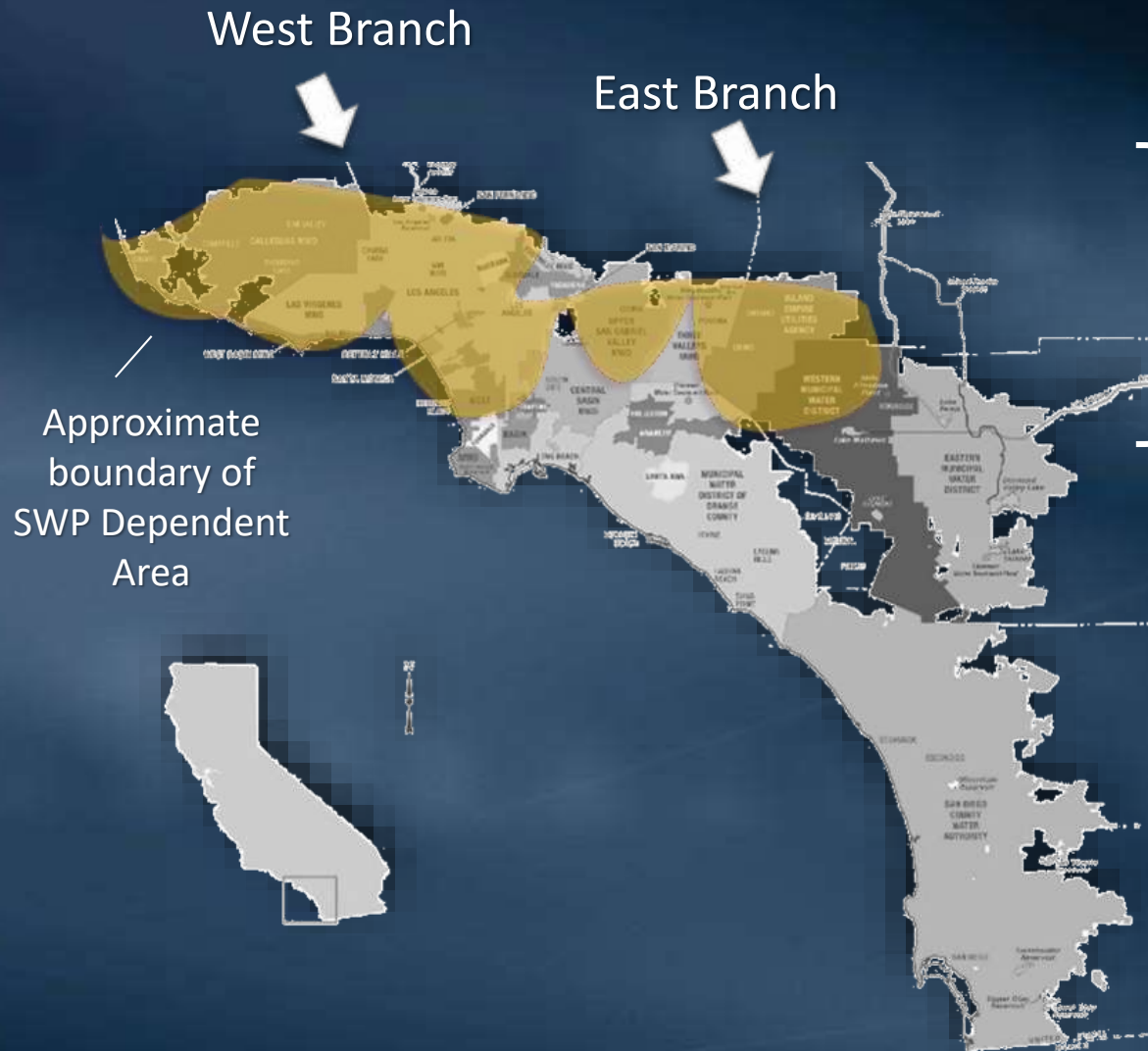
Demand Estimate: 1.75 MAF

Supply Estimate : 1.00 MAF

Estimated Gap: 0.75 MAF

Sufficient storage and Colorado River and local supplies to satisfy majority of regional demand

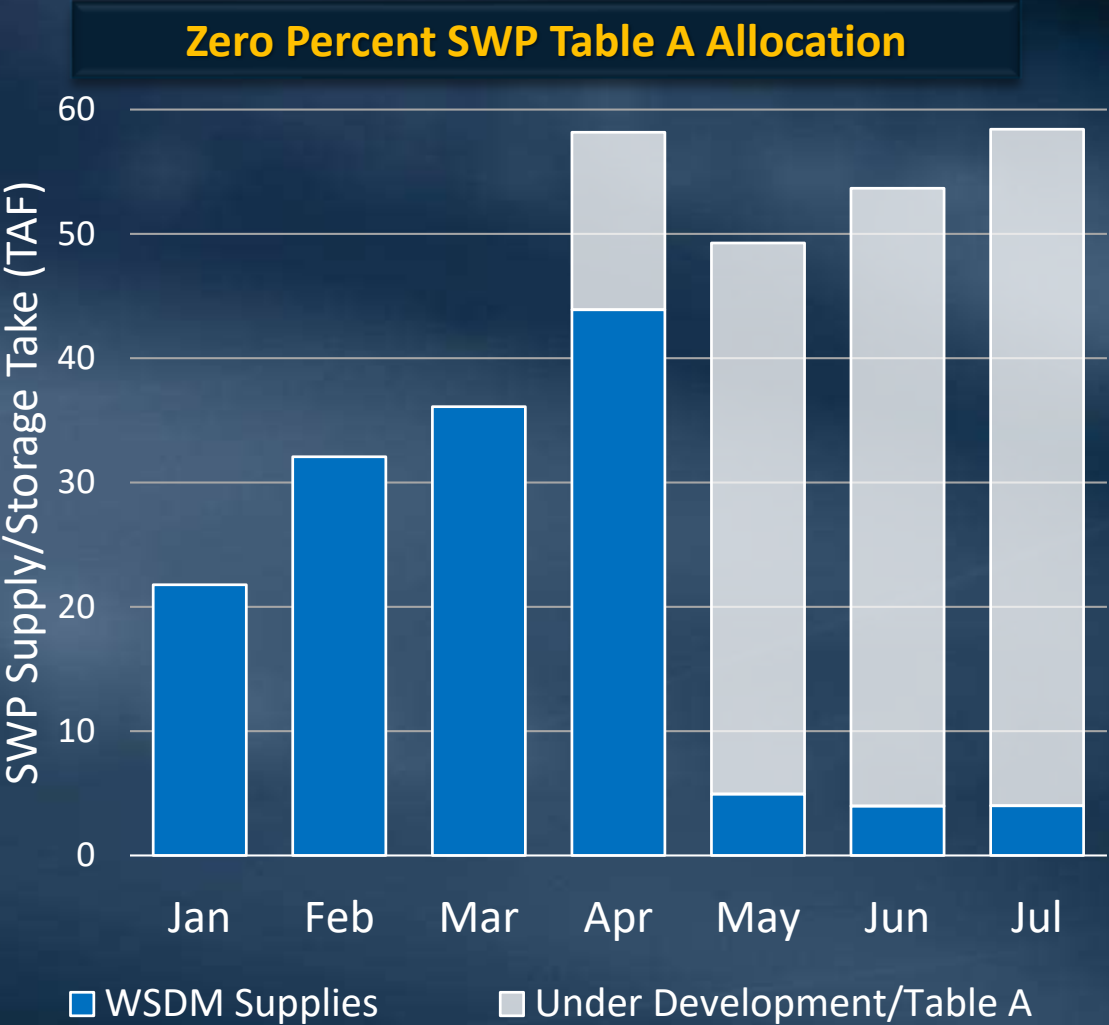
HH&S needs identified for SWP Dependent Area



- Insufficient supplies at a zero percent SWP Table A Allocation to meet “SWP Dependent Area” full demand in 2022
- Metropolitan’s total HH&S need is ~270 TAF after factoring in other available supplies and remaining available storage

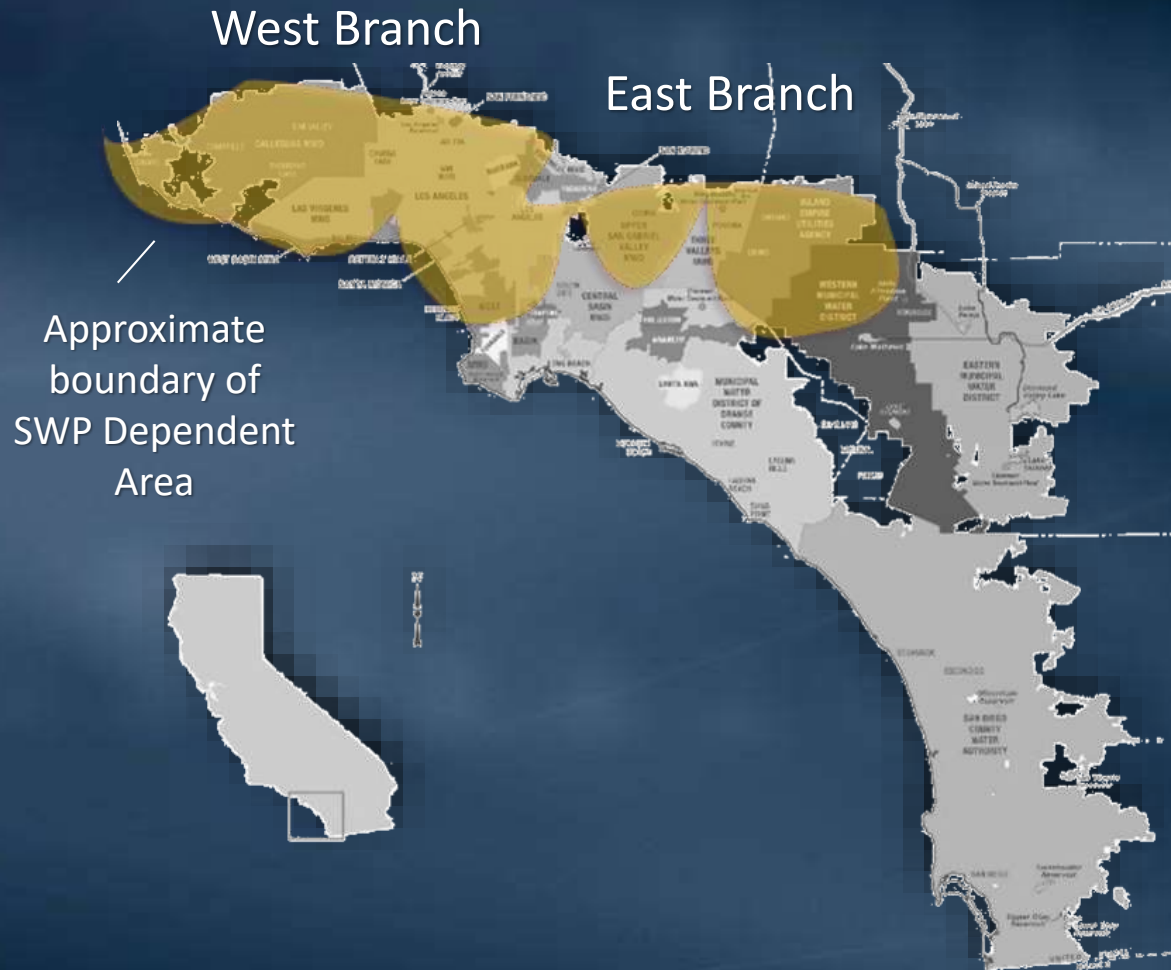
Available supplies sufficient through April

East and West Branch Combined, includes system water for water quality



Additional actions under development include new supply programs and demand management measures including additional conservation measures for SWP Dependent Areas imposed through California Water Code Sections 350 and 375

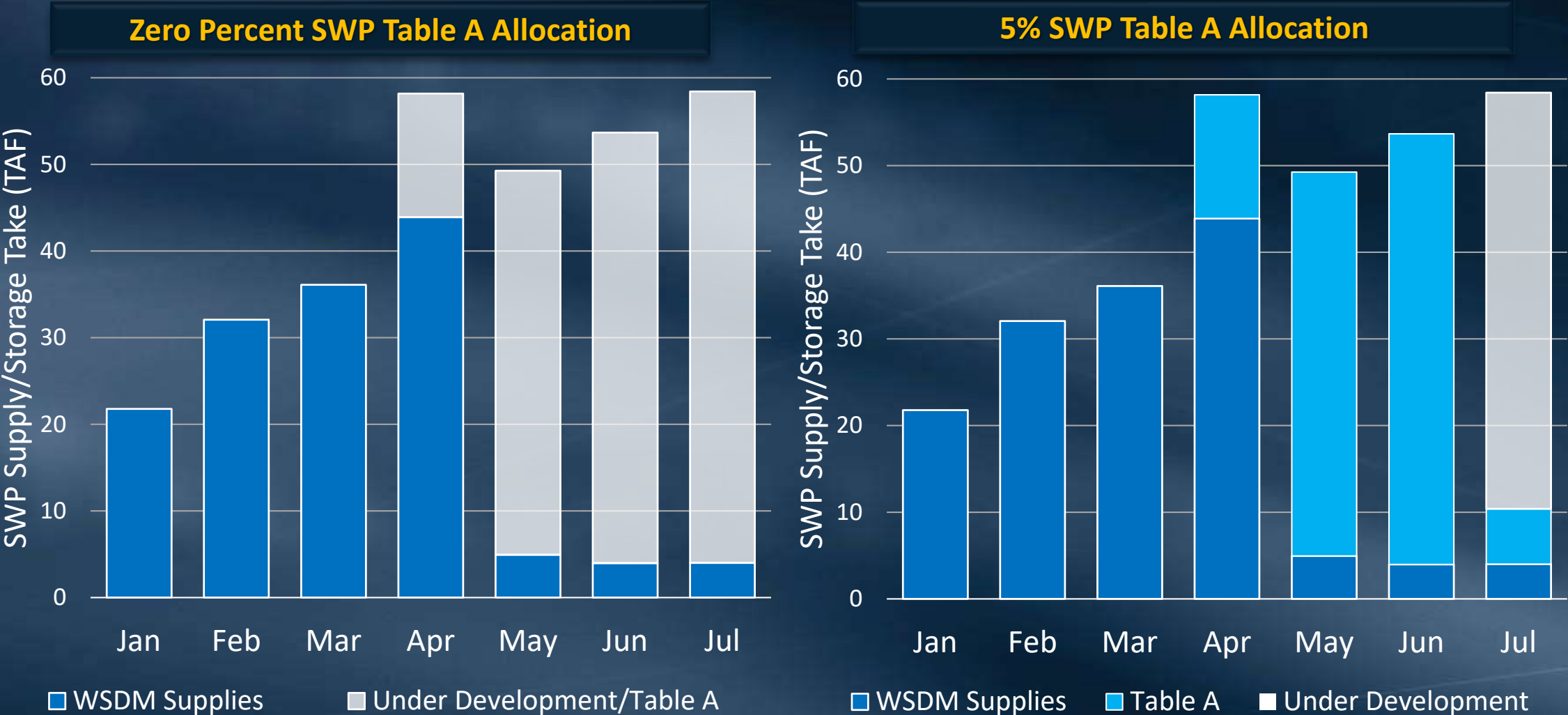
Metropolitan seeks to avoid or defer use of HH&S



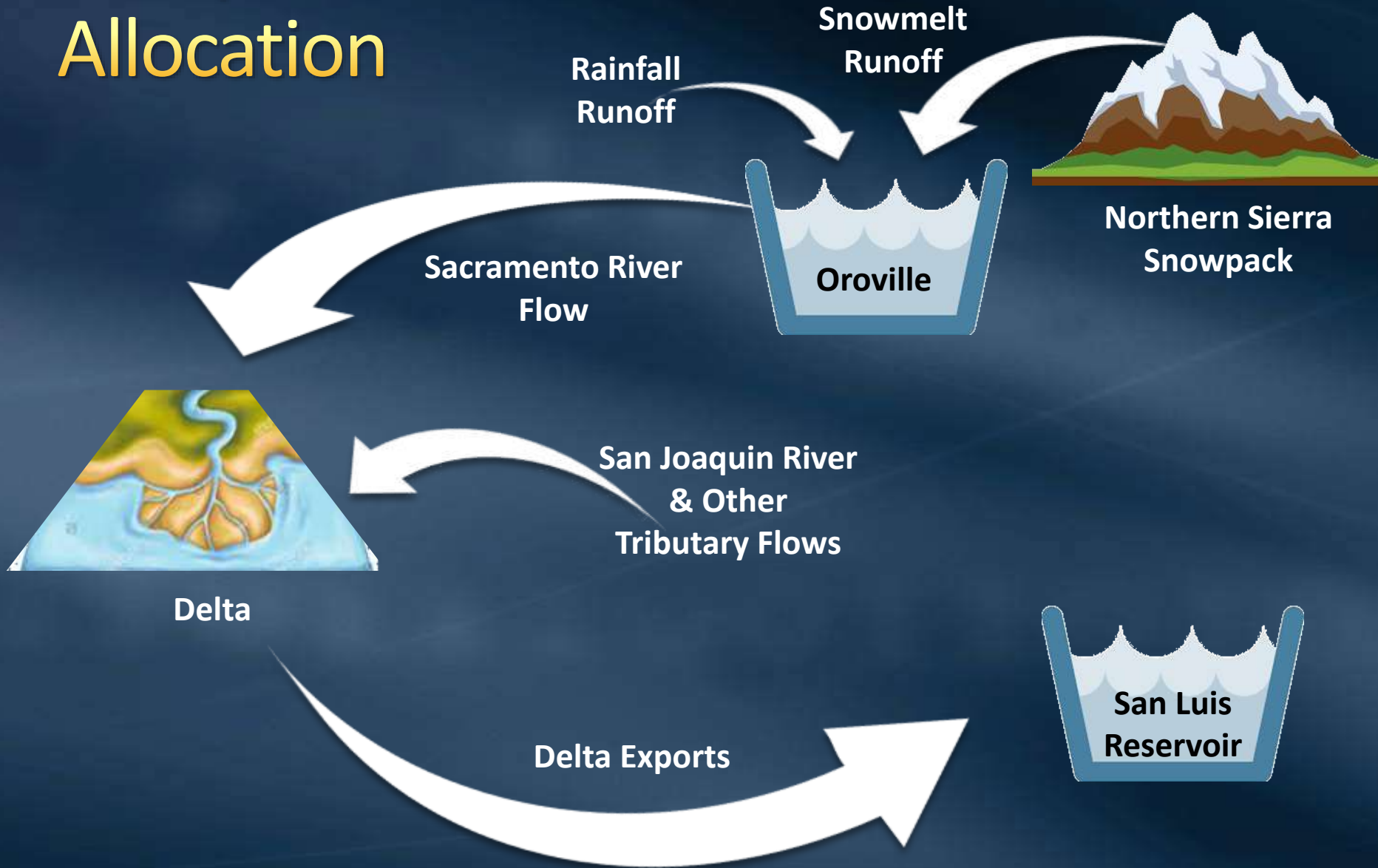
- Metropolitan is coordinating with impacted member agencies and identifying and implementing additional actions to develop new or stretch out existing supplies
- The goal is to avoid the need to take delivery of HH&S water
- Areas receiving HH&S water are expected to limit consumer water use to critical needs only (e.g., no watering of ornamental landscape)

Any Table A Allocation Defers HH&S Initiation

East and West Branch Combined, includes system water for water quality



Components contributing towards a SWP Table A Allocation



- **Forecasted Runoff**
- **Delta Exports**
- **Storage Levels**

Recent storms boosts statewide snowpack to half the annual peak accumulation

Conditions as of 1/4/2022



Northern Sierra
Truckee, CA

148%
Of normal for
this date



Central Sierra
UC Berkeley Snow Lab

145%
Of normal for
this date



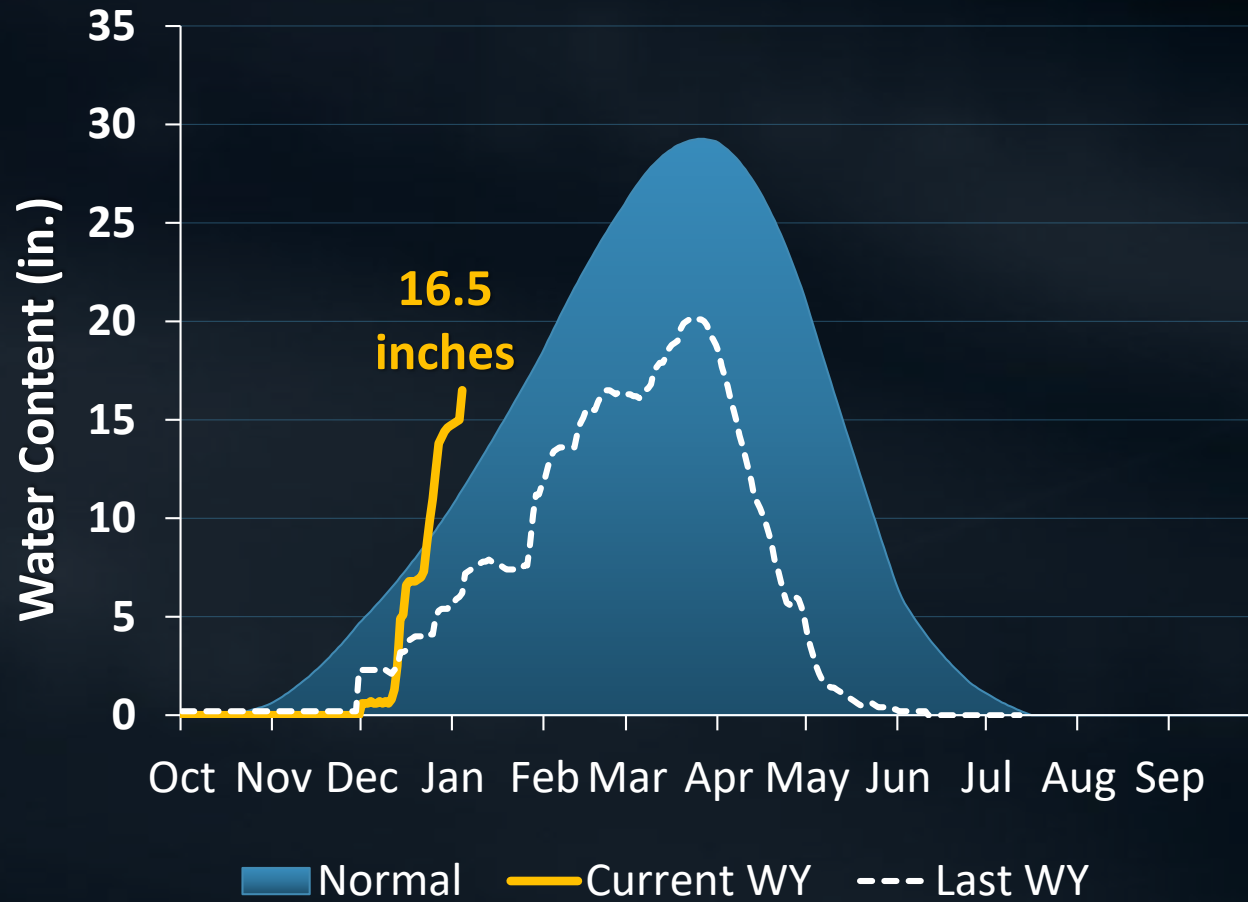
Southern Sierra
Mammoth Mountain

157%
Of normal for
this date

Northern Sierra snowpack above normal

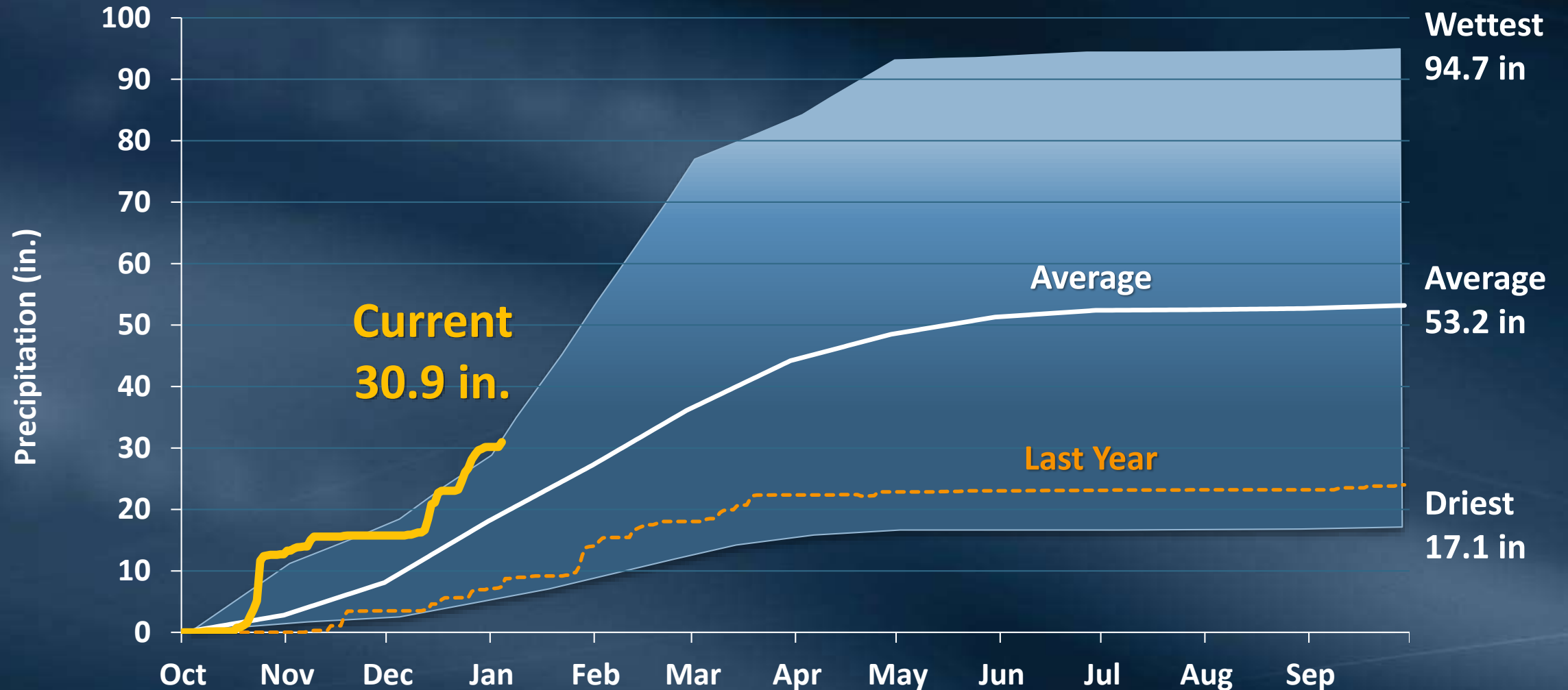
As of 1/4/2022

148%
normal for
this date



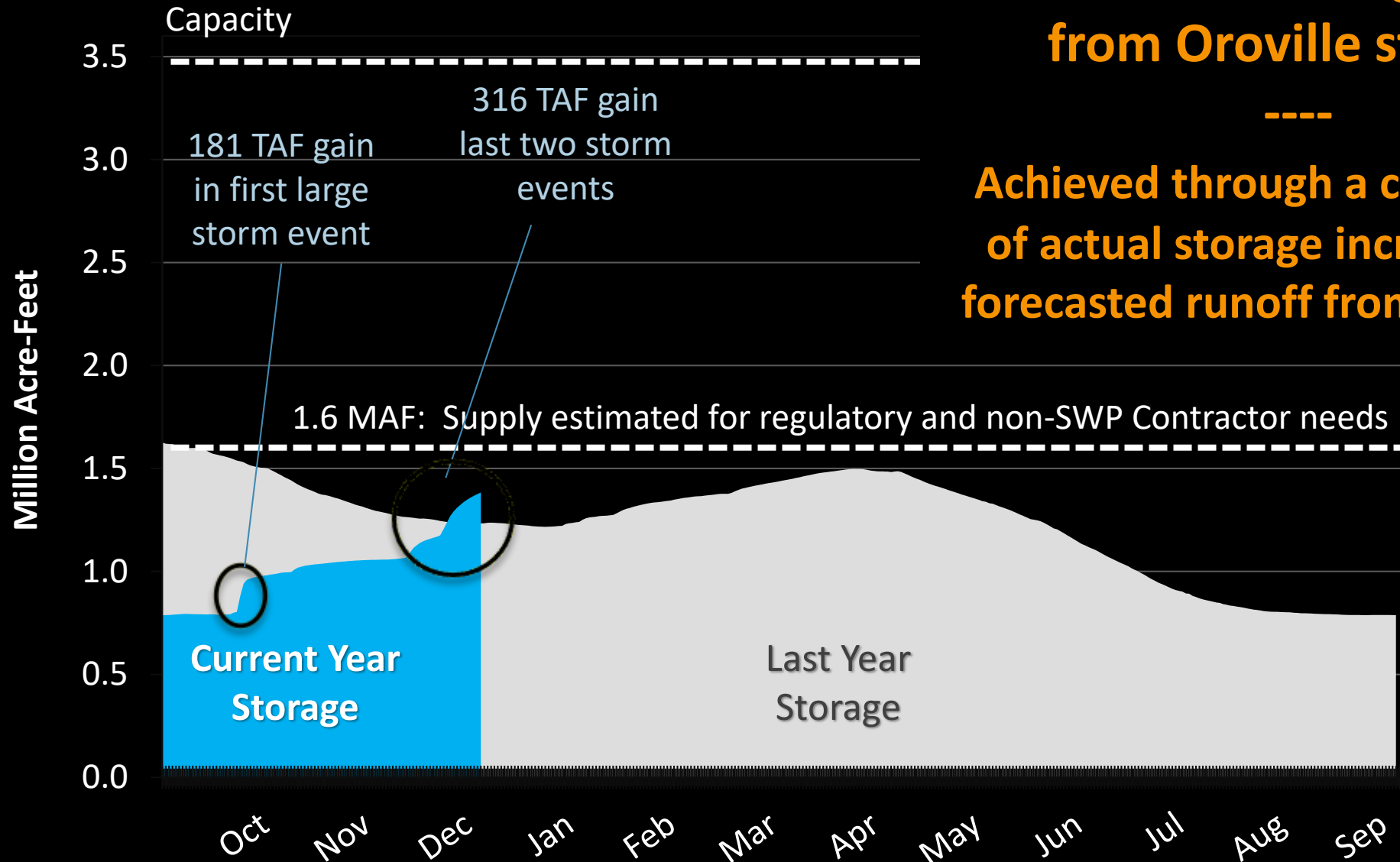
Northern Sierra Precipitation: 8-Station Index

As of 1/4/2022



Lake Oroville

As of 1/3/2022



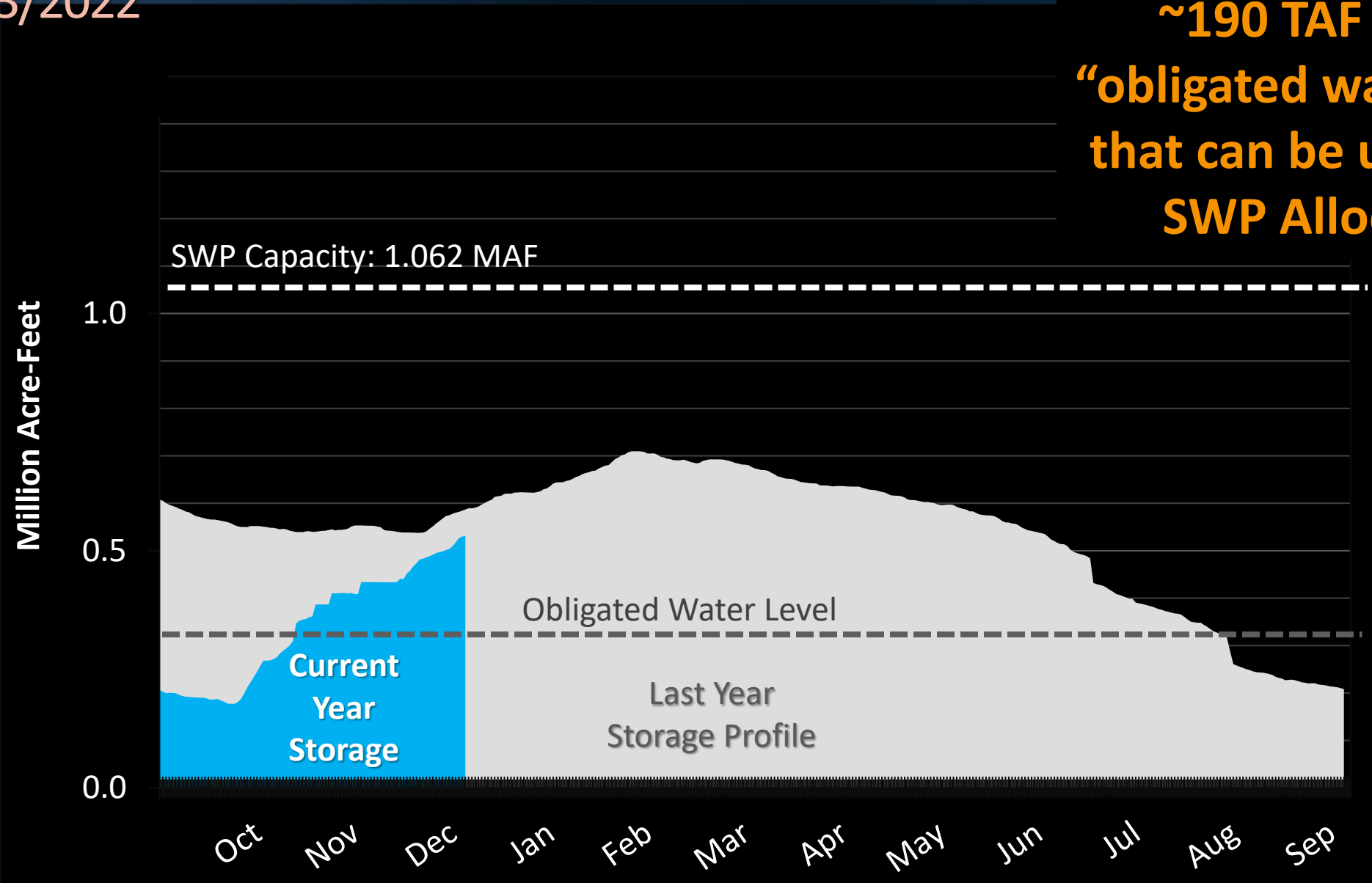
**~216 TAF needed before DWR
can start allocating supplies
from Oroville storage**

**Achieved through a combination
of actual storage increases and
forecasted runoff from snowpack**

San Luis Reservoir – SWP Share

As of 1/3/2022

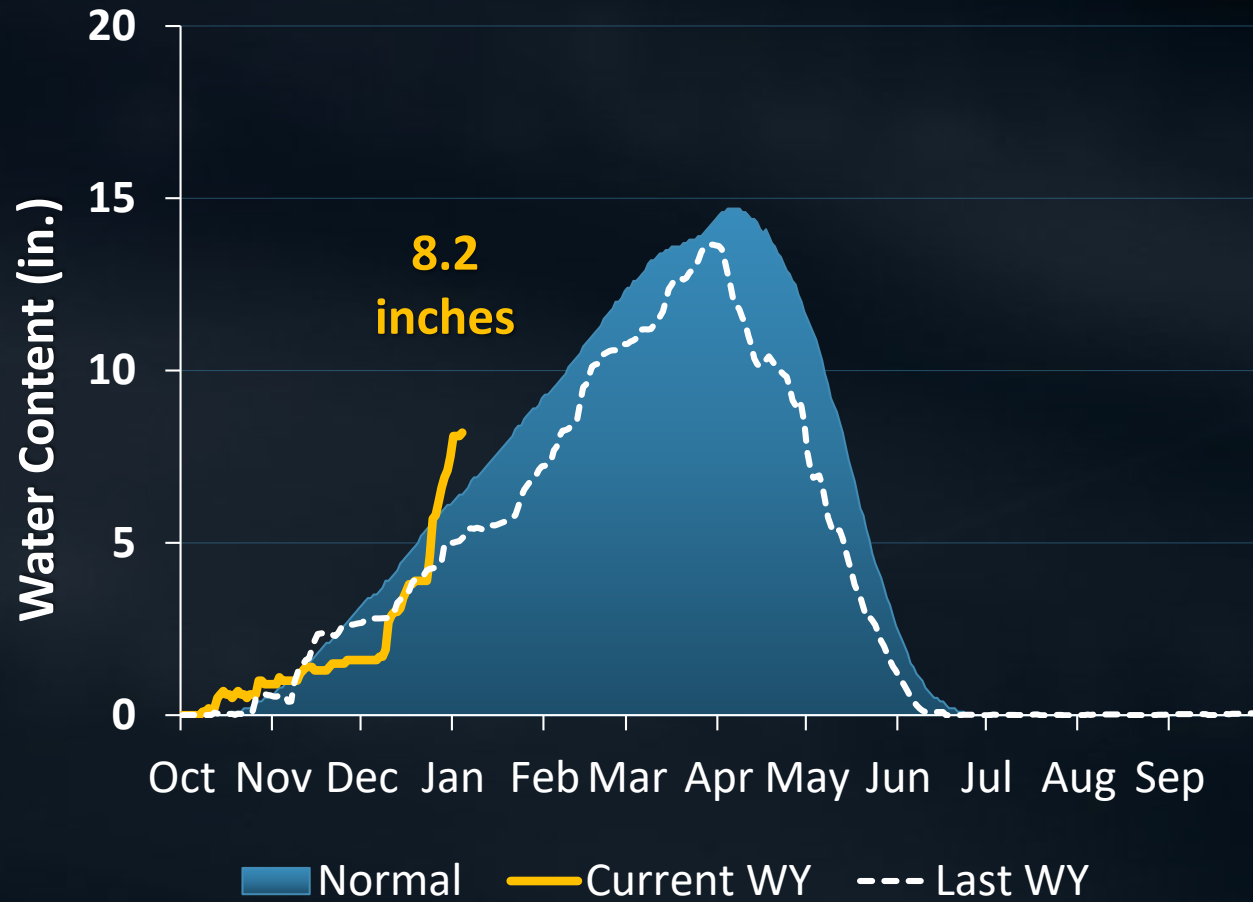
**~190 TAF above
“obligated water level”
that can be used for a
SWP Allocation**



Upper Colorado River Basin snowpack above normal

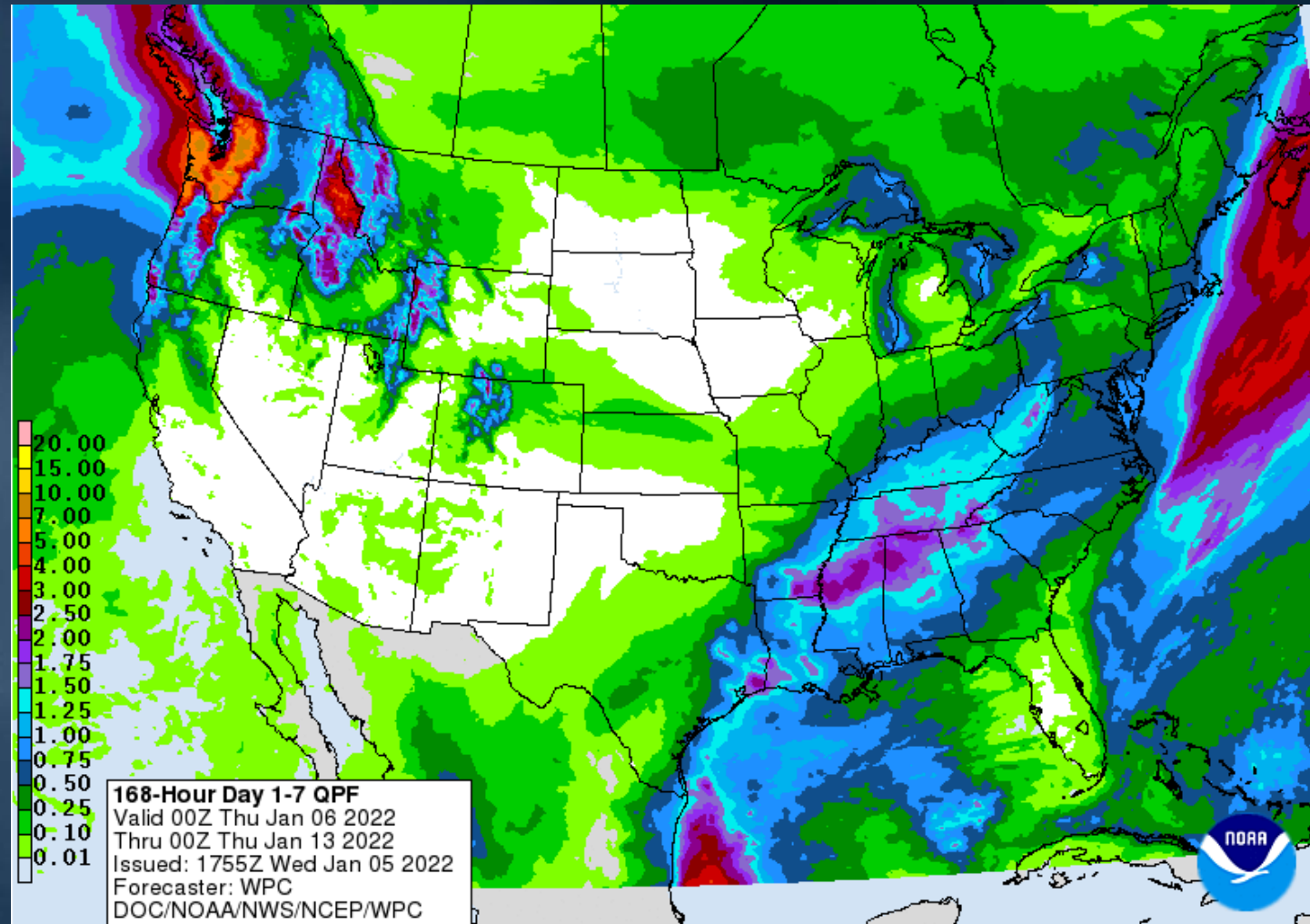
As of 1/4/2022

128%
normal for
this date



Additional precipitation in the forecast

Jan 6 - Jan 13



Improved conditions may support Table A allocation

- SWP storage is improving
 - Oroville storage of 1.3 MAF (72% of average) insufficient to support Table A allocation at this time
 - ~190 TAF of storage in SWP share of San Luis to support 2022 allocation
- Allocation studies lag current hydrologic conditions by a month
 - Runoff projections have improved since initial allocation study
 - Expect additional improvements to runoff forecast in February study

Summary

- Mid-December storms brought much needed precipitation that support a Table A Allocation
- Metropolitan and Member Agency actions are reducing the 2022 supply/demand gap for the “SWP Dependent Area” but more is needed
- Metropolitan is preparing to take additional actions to conserve water supplies for the greatest public benefit should drought conditions persist

