



# Update on Water Surplus and Drought Management

Water Planning and Stewardship Committee

Item 6a

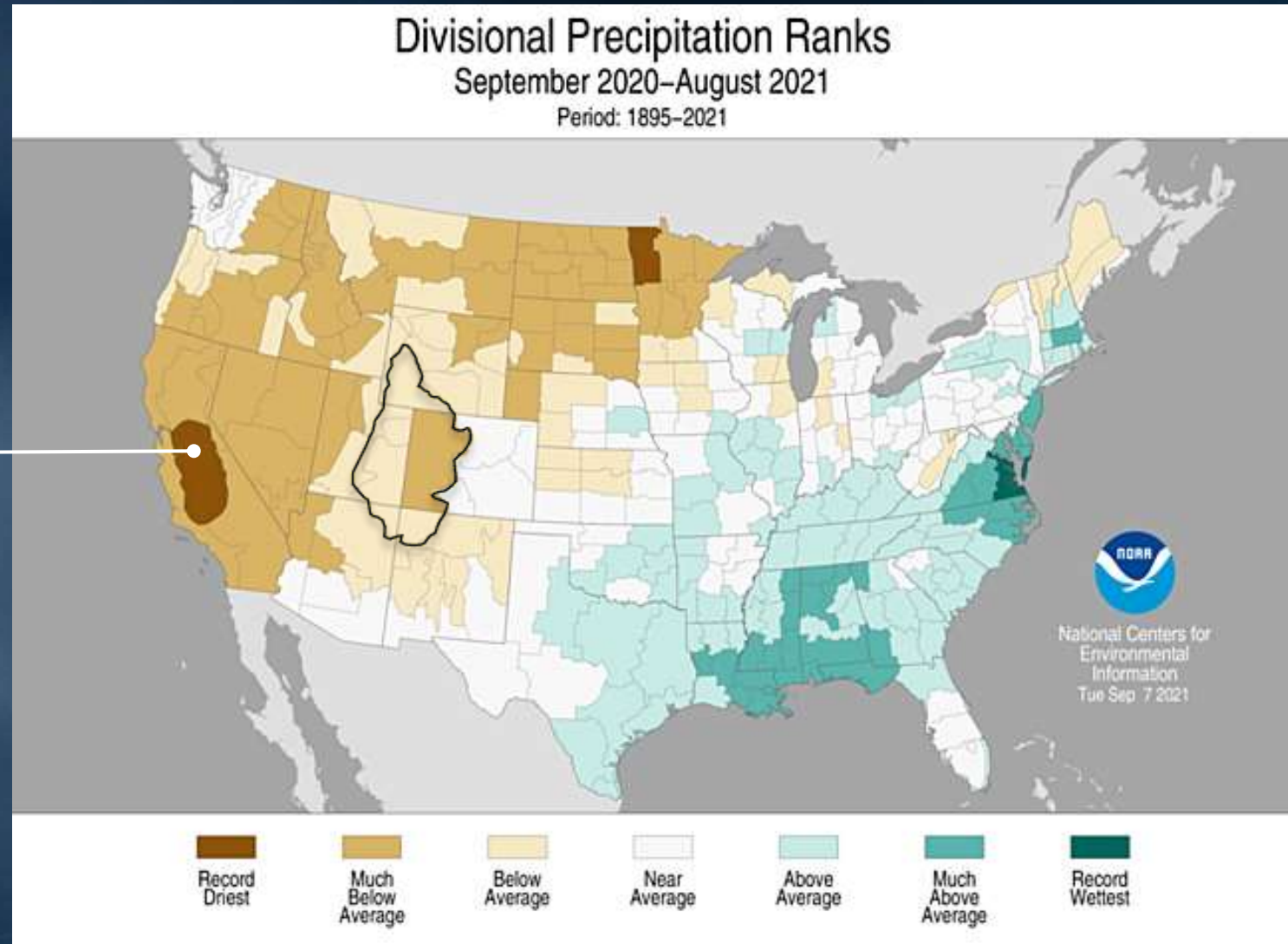
October 11, 2021

# Outline

- Water Year 2020/21 Recap
- 2021 Supply/Demand Balance and 2022 Outlook
- Coordination with DWR on Health and Safety Needs
- Preparing for 2022

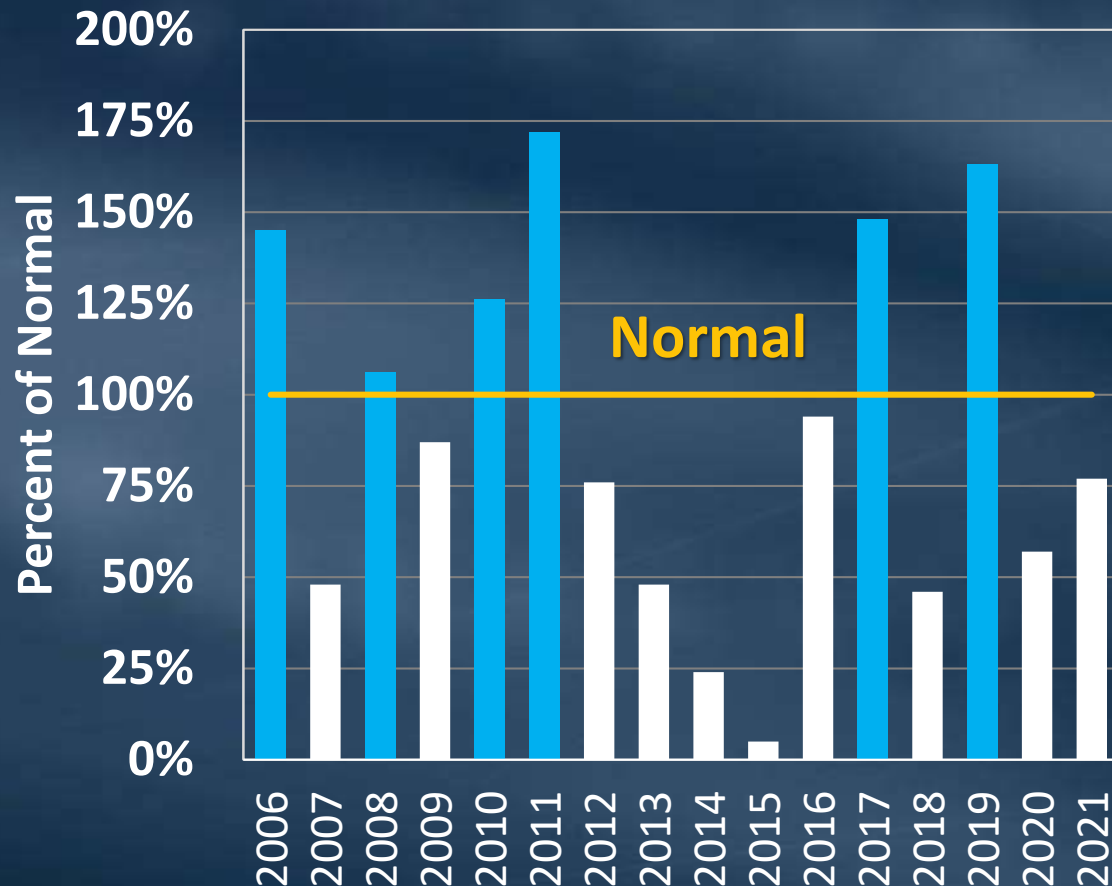
# Water Year 2020/21 Recap

# How dry was it this past year?

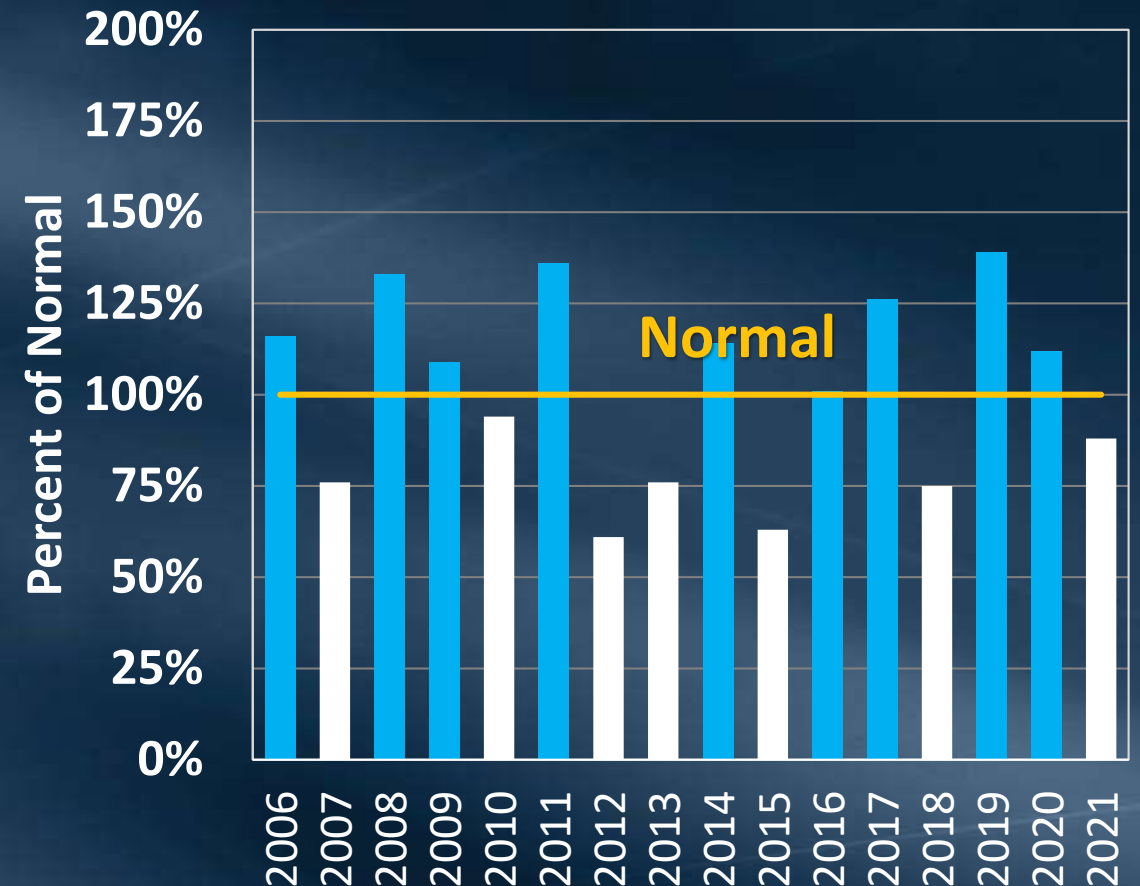


# Highly variable snowpack in both imported watersheds

## Northern Sierra

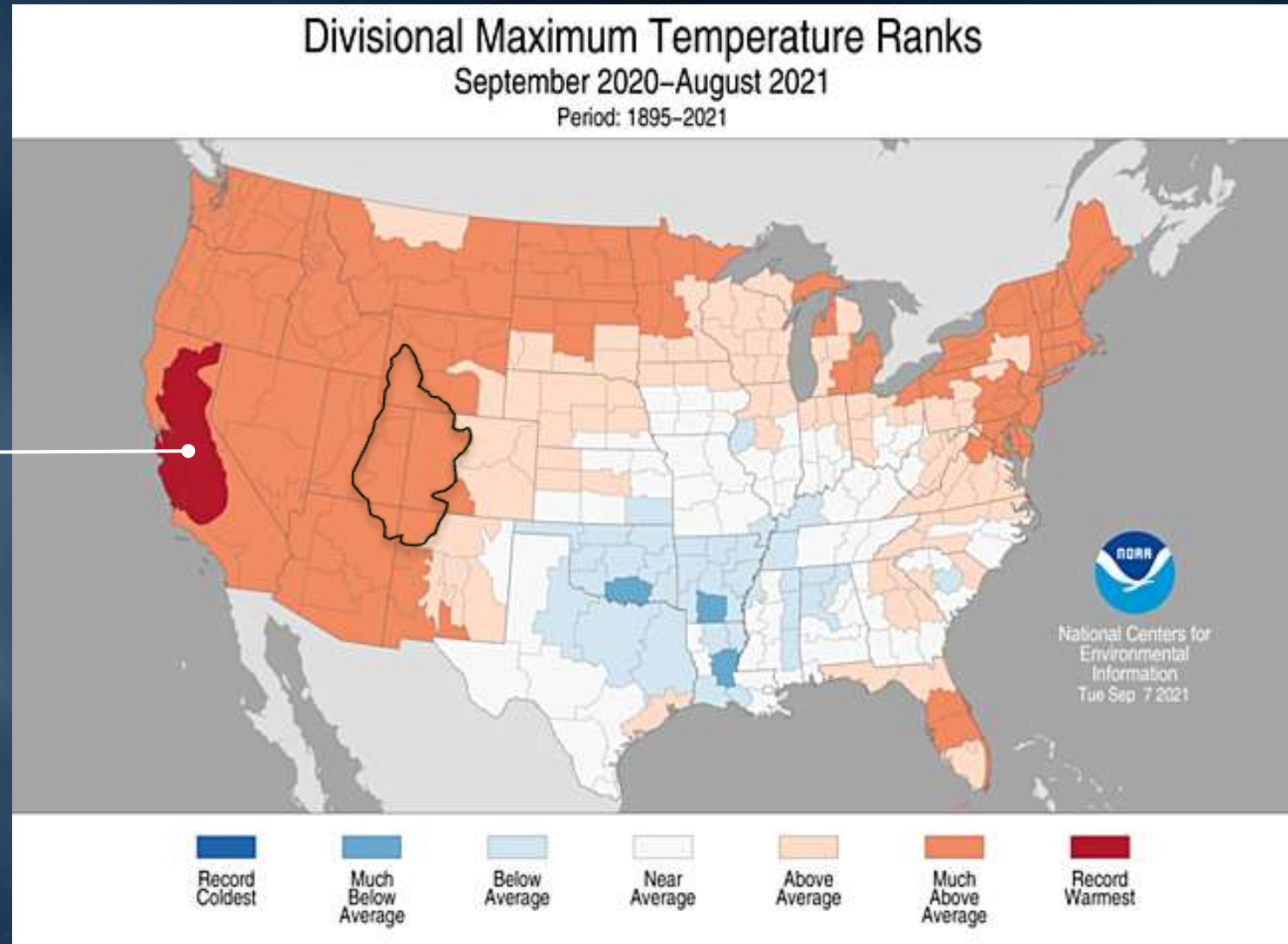


## Upper Colorado River Basin

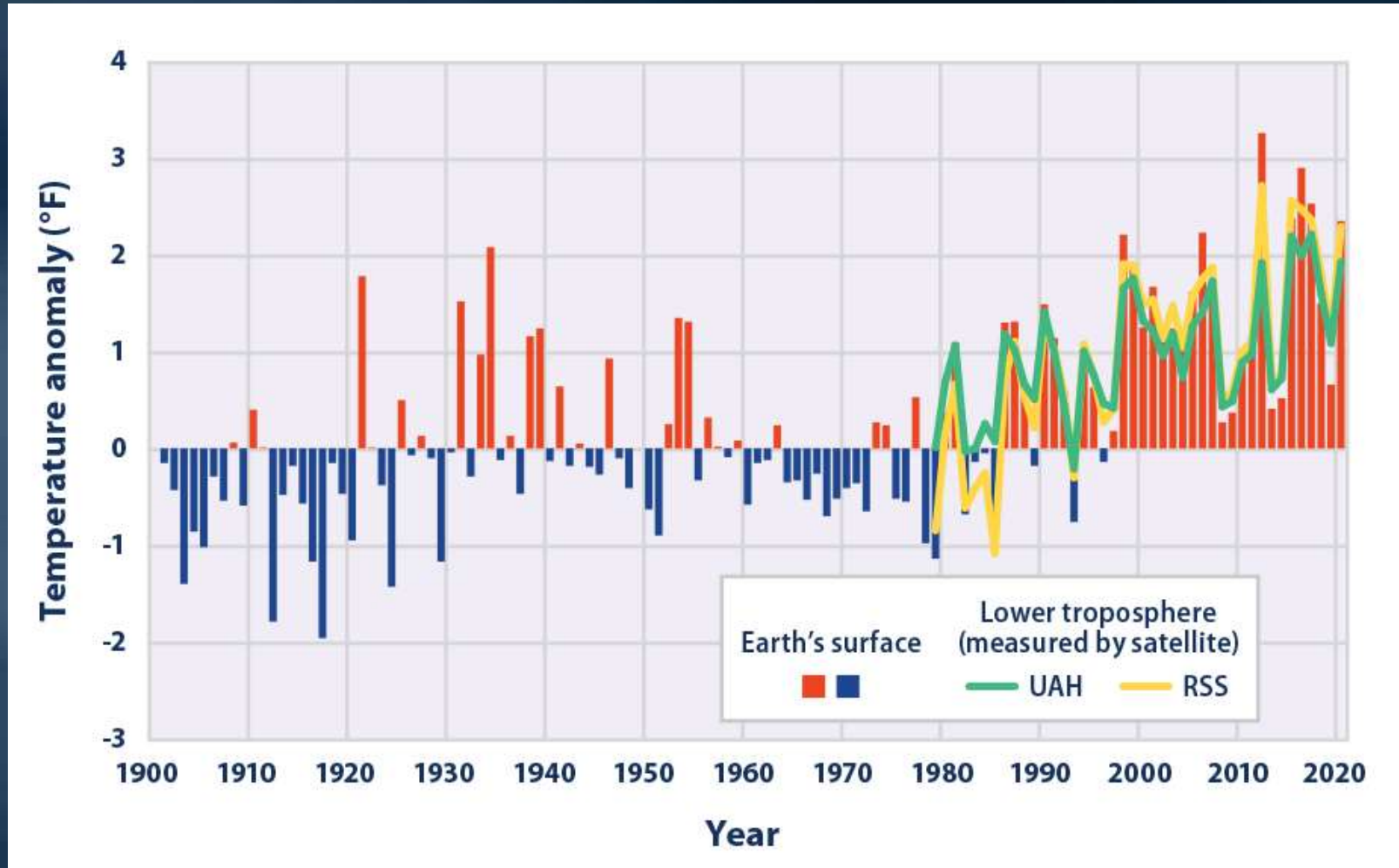




# How hot was it this past year?



# Unprecedented warming trend since the turn of the century



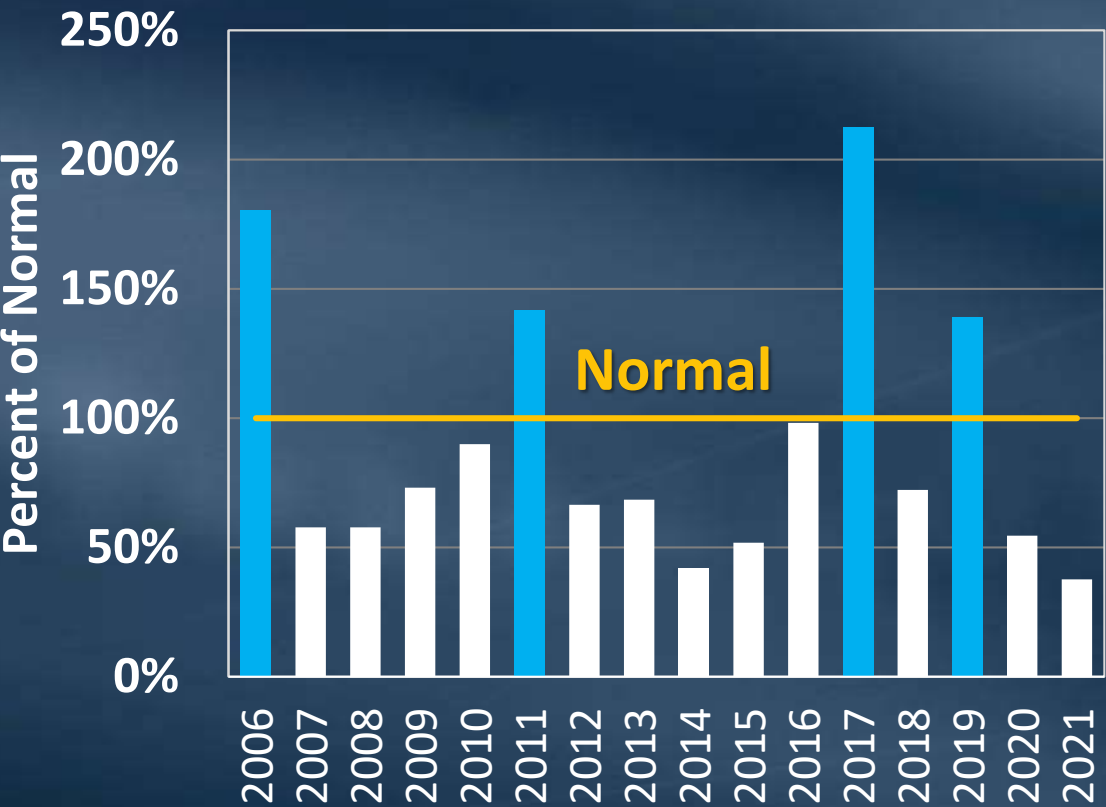
# Runoff did not materialize this year



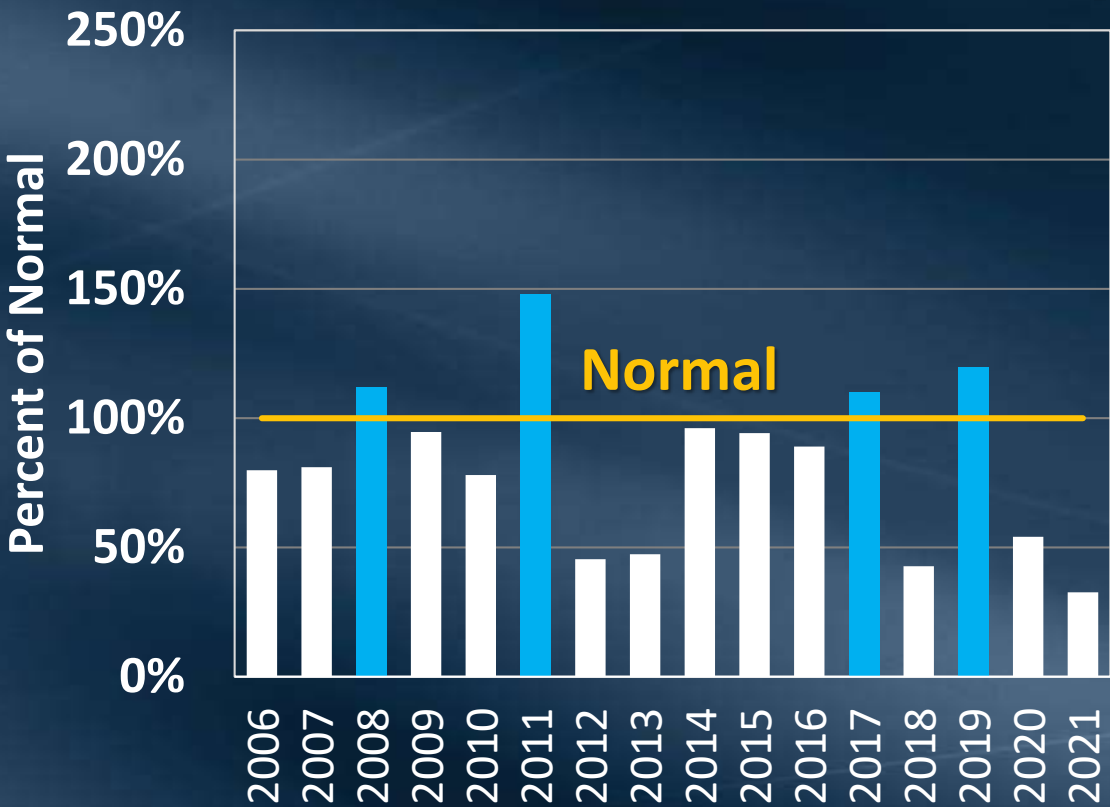


# Predominately below average runoff as a result of both dry and progressively hotter conditions

Sacramento River Runoff



Powell Unregulated Inflow



# 2021 Supply/Demand Balance and 2022 Outlook

# Colorado River WSDM accounting adjustments

## Higher Priority Water Use

- A portion of supply not used by higher priority water users becomes a supply to Metropolitan
- Reclamation estimates 64 TAF of additional supply to Metropolitan
- More certainty with higher priority water usage as the year develops

## IID Settlement Agreement

- Resolves a dispute over water that Metropolitan diverted in 2018 through shared storage of water between agencies
- IID may store an additional 25 TAF of conserved water in MWD's Lake Mead Account
- IID helps satisfy California's DCP contribution if Lake Mead continues to drop

# Colorado River WSDM accounting adjustments

## Higher Priority Water Use

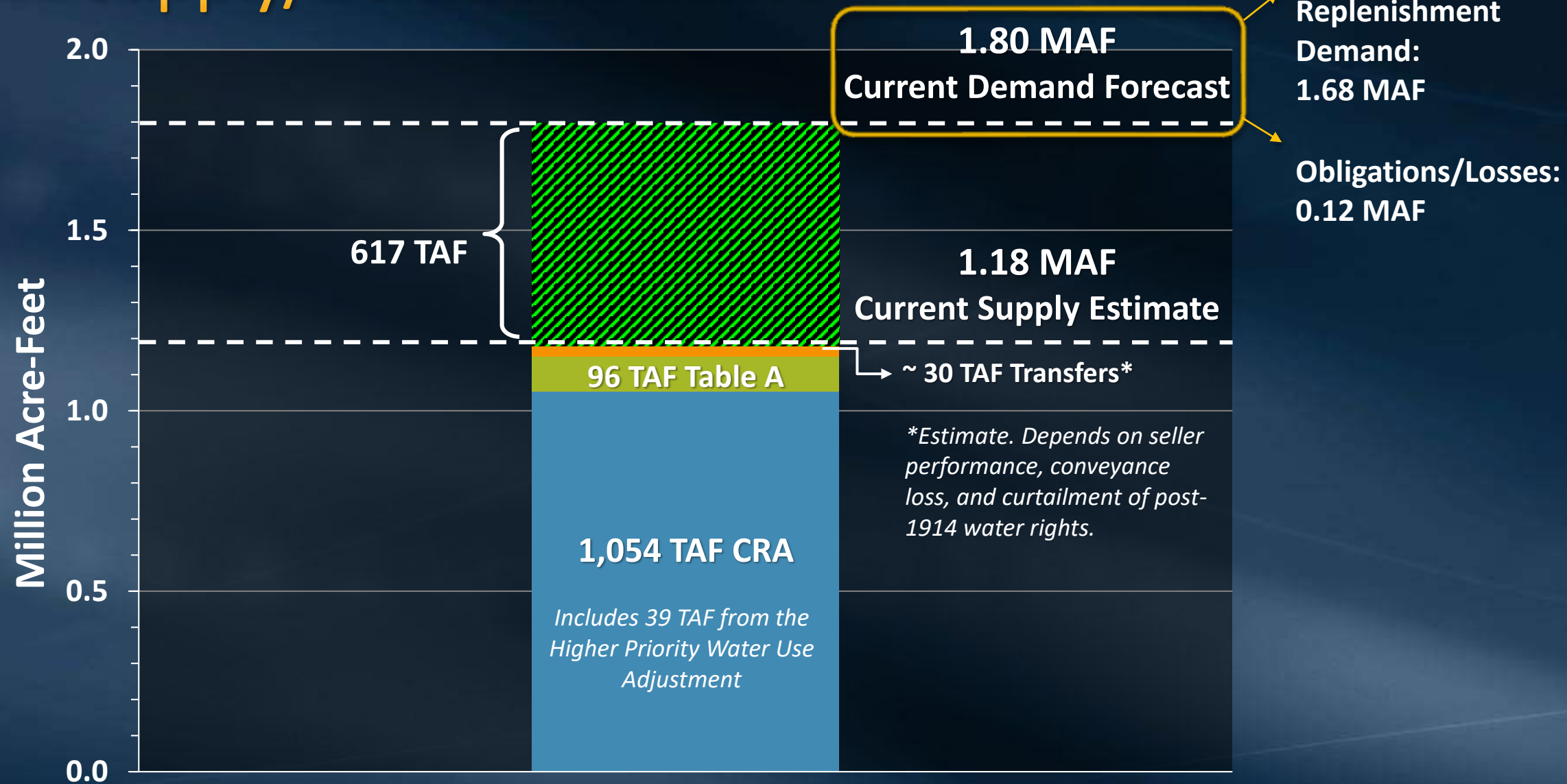
- A portion of supply that is currently designated as higher priority water use becomes a supply that is designated as lower priority water use
- Reclamation estimates that this will result in an additional supply of 25 TAF
- More certainty in water supply and demand for the year as water usage as the year develops

## IID Settlement Agreement

- Resolves a dispute over water that was settled in 2018 that resulted in a release of water from Lake Mead
- IID helps satisfy California's DCP contribution if Lake Mead continues to drop

Net increase of 39 TAF to Metropolitan  
Colorado River Supply

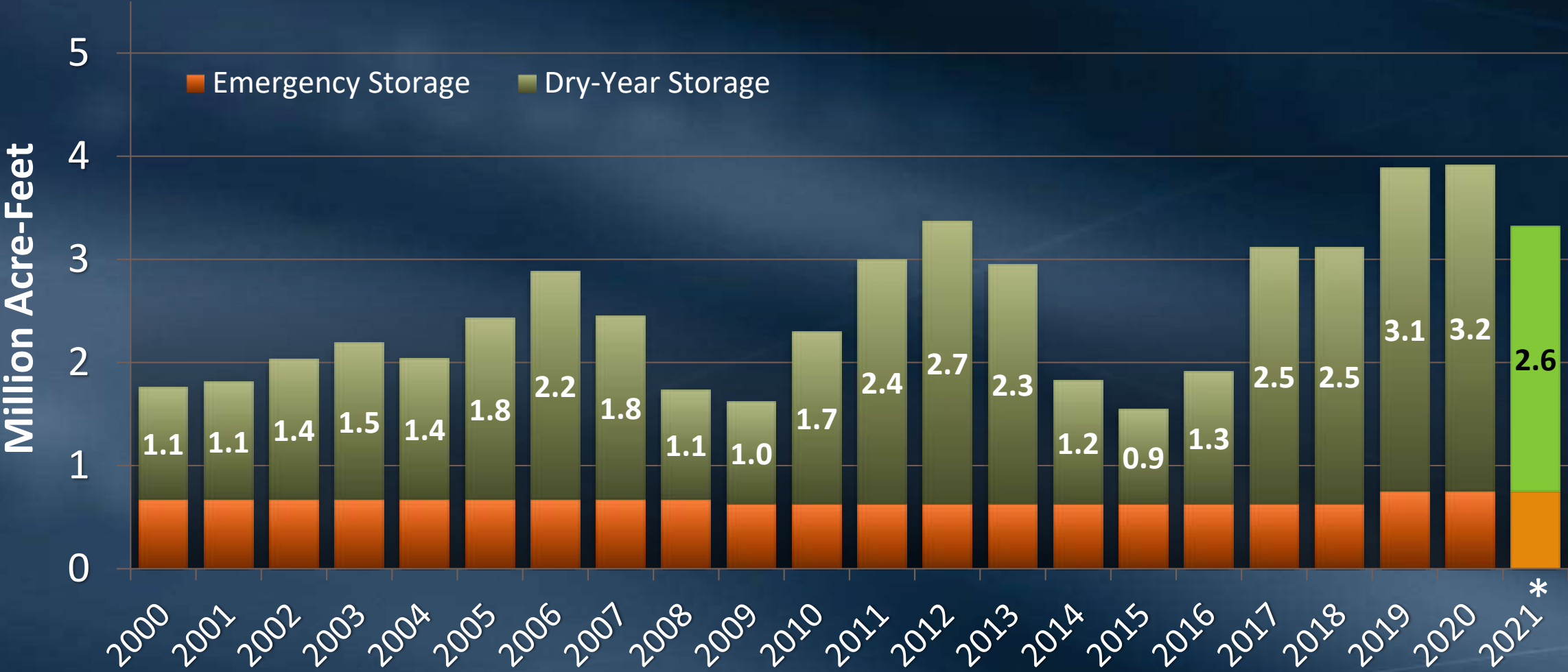
# 2021 Supply/Demand Balance





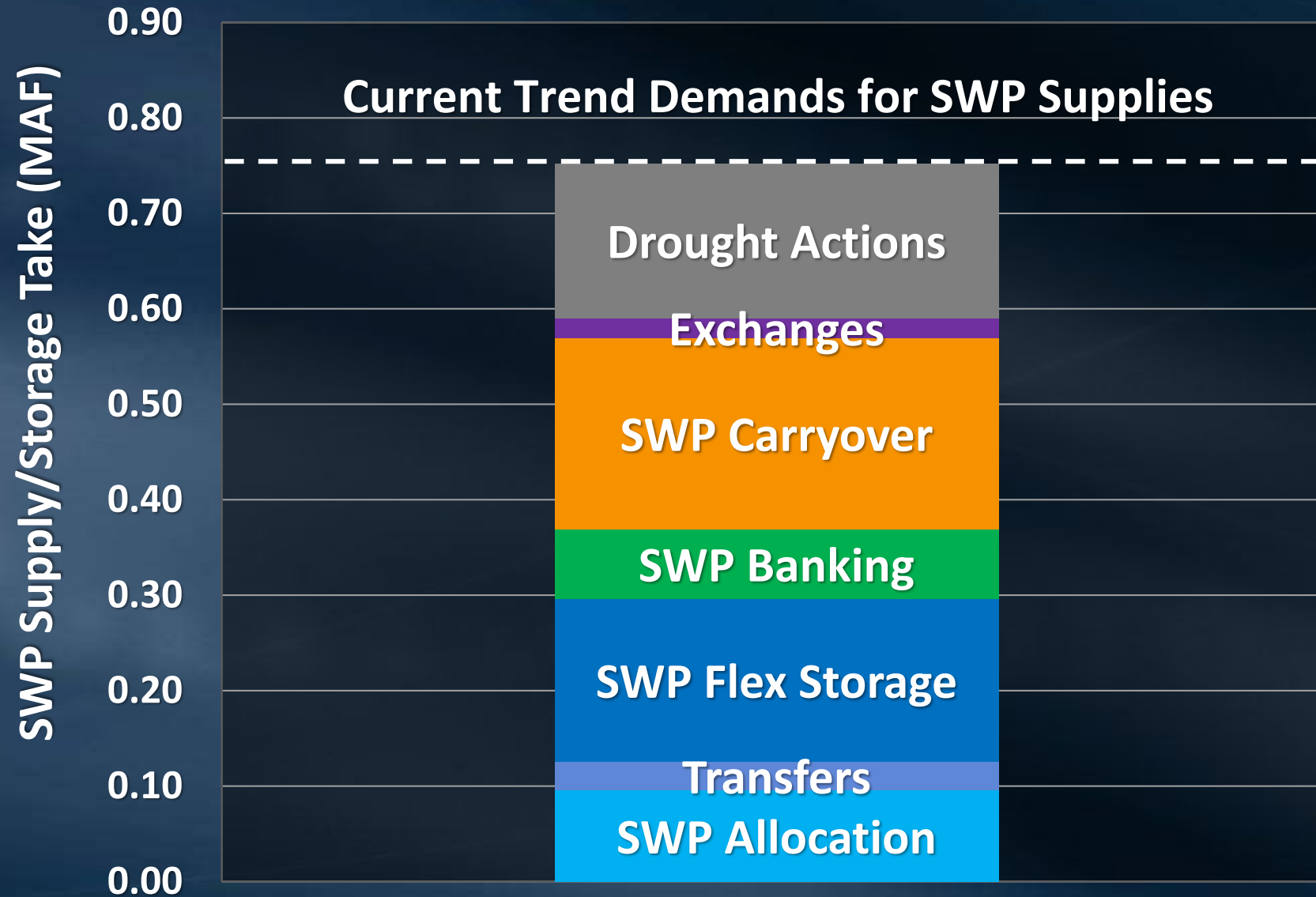
# Supply/demand gap to be satisfied with storage

## End of Year Balances

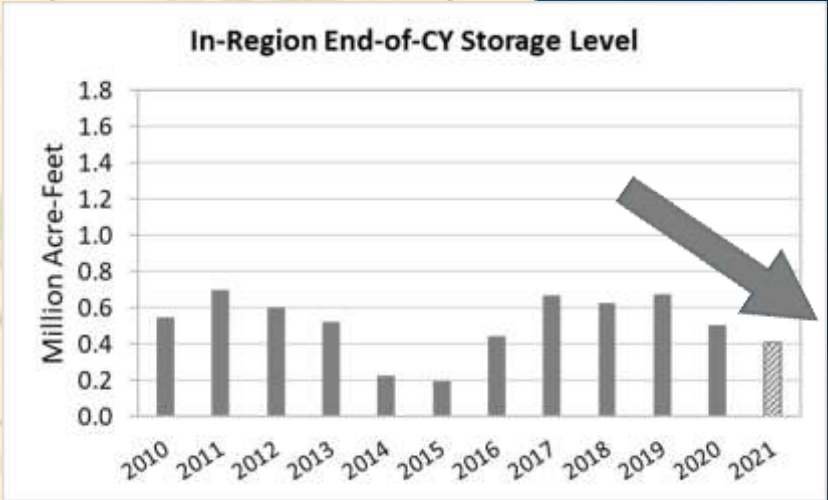
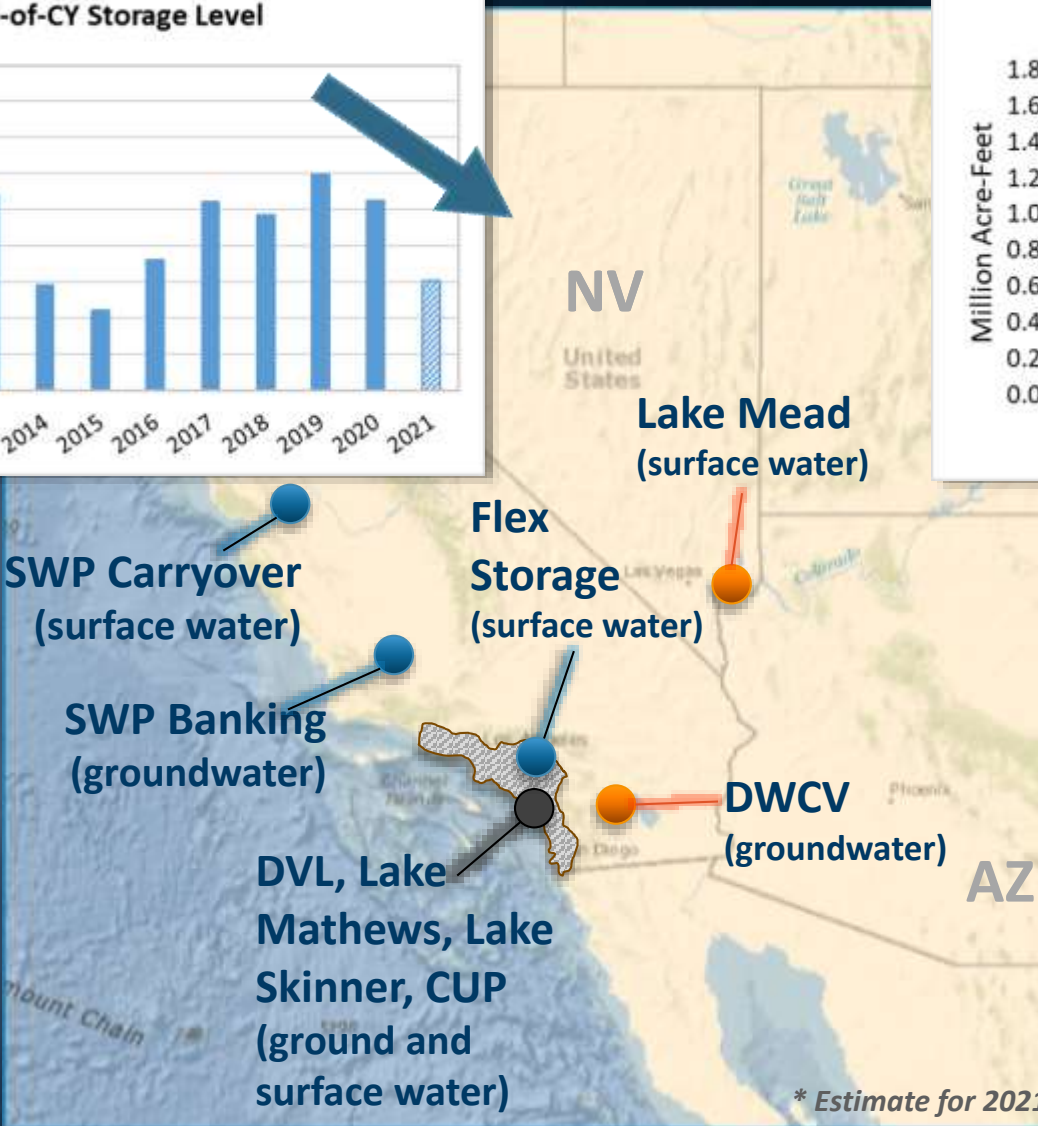
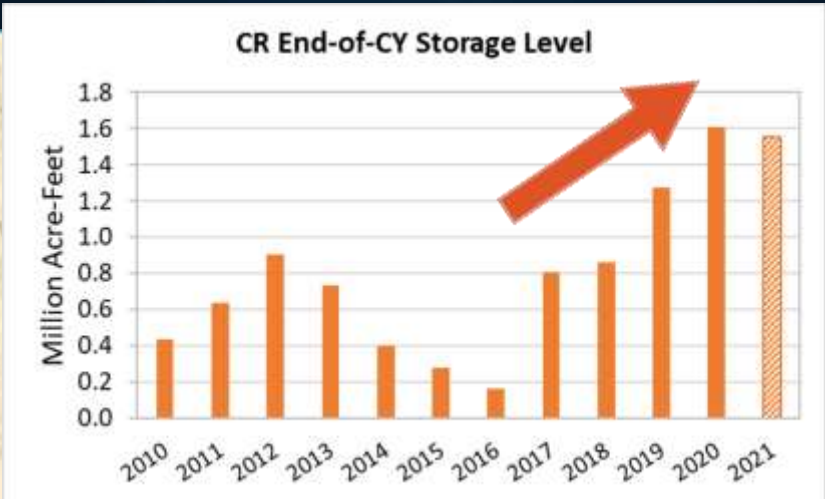
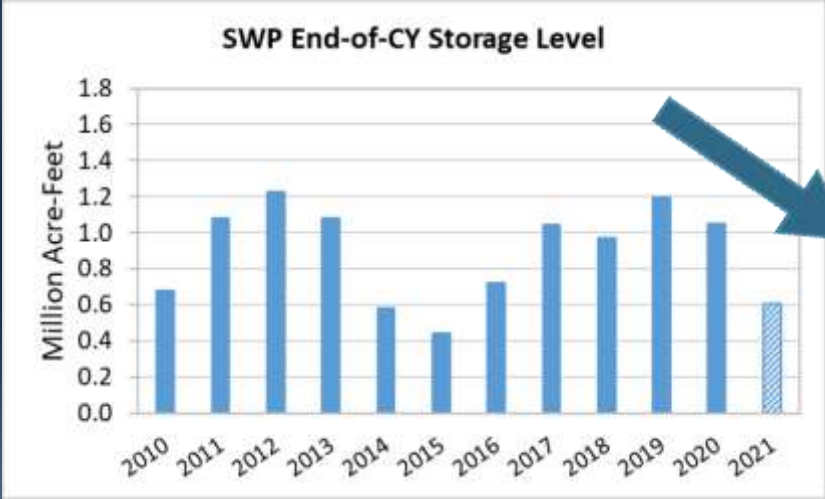


\* Estimate – May change based on supply/demand conditions

# 2021 Supply/Demand Balance for SWP Only Area

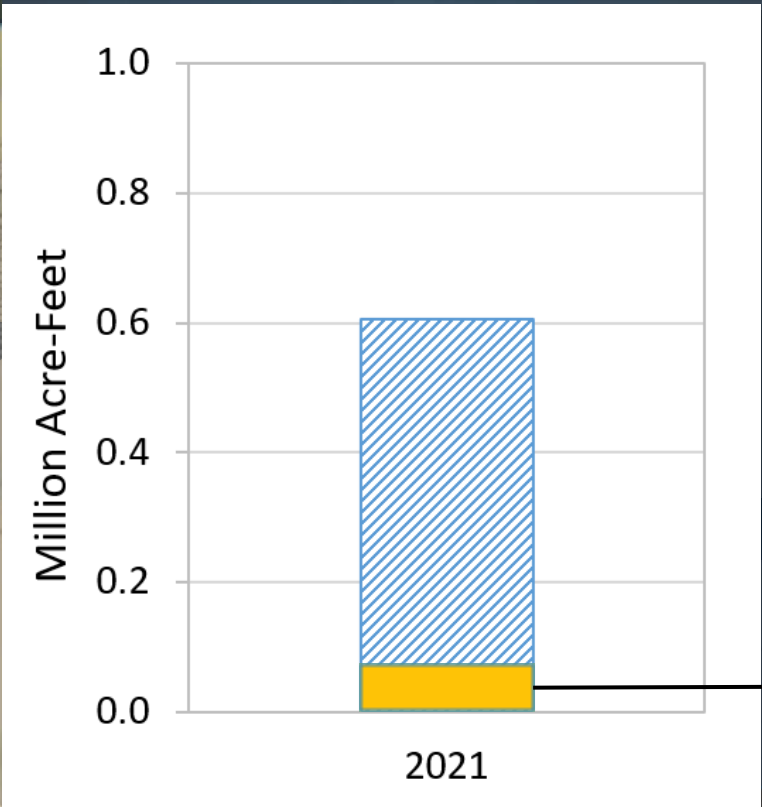
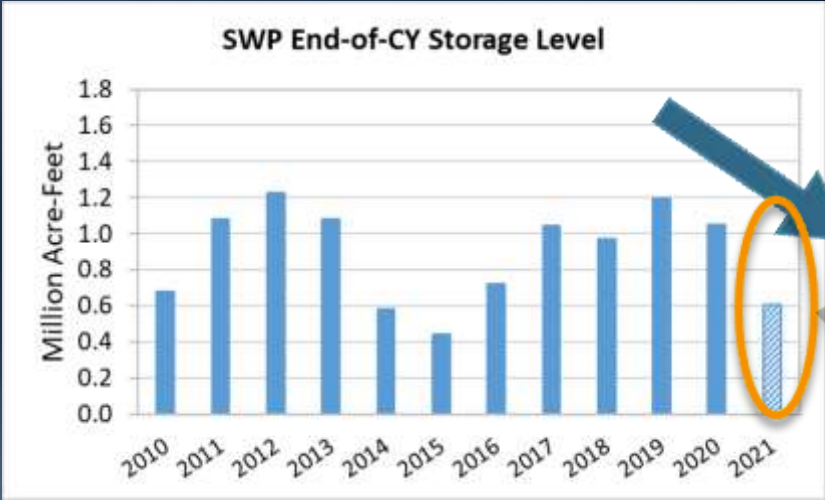


# Storage in SWP accounts is being utilized



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

# Storage in SWP accounts is being utilized



Accessible water to meet 2022 SWP only area demands under 0% SWP allocation



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



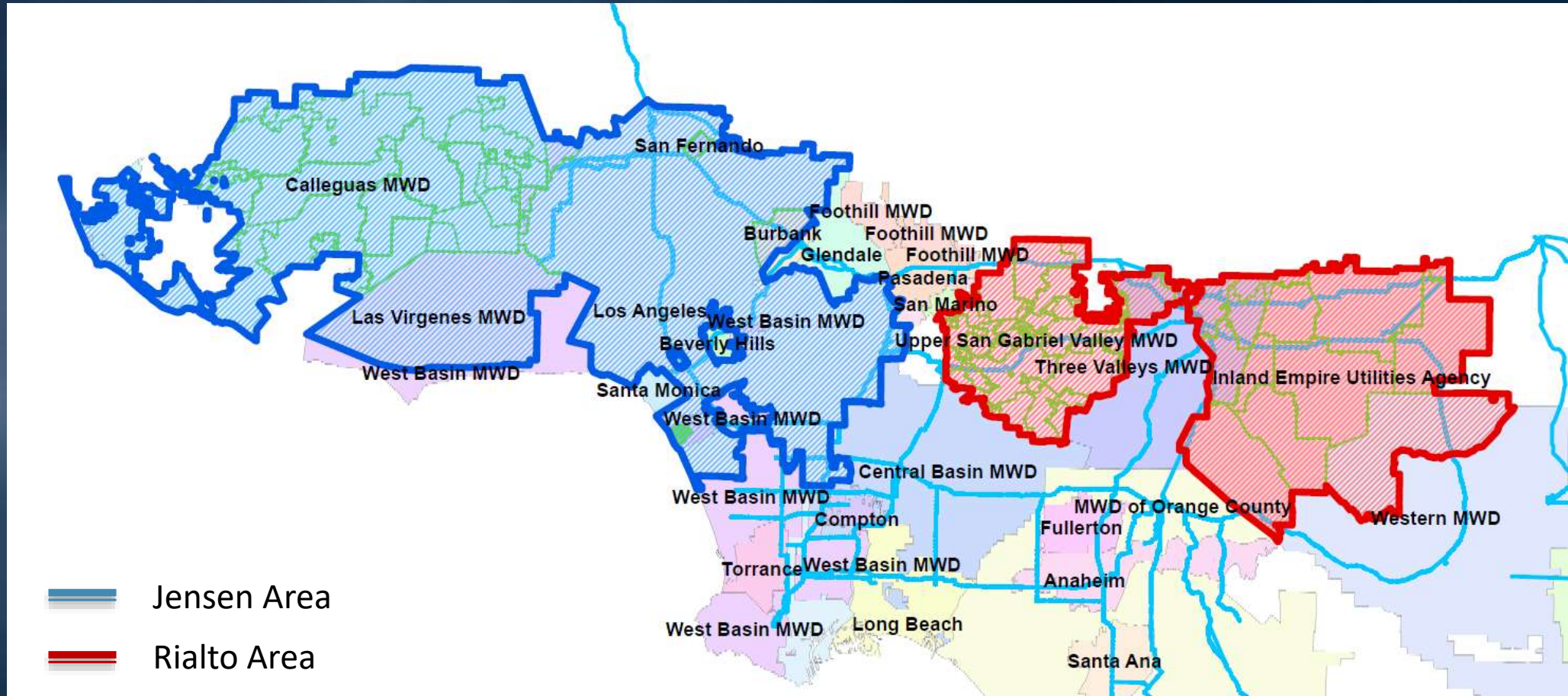
# Coordination with DWR on Health and Safety Needs



# DWR is signaling and planning for a dry 2022

- DWR expects to announce a 0% initial allocation by December 1st
- Planning for the worst case (a third consecutive dry year) with offramps if conditions improve
- Planning objectives include:
  - Conserve storage to meet future critical needs
  - Focus on maintaining water quality in the Delta
  - Provide for minimum health and safety needs
- No Table A allocation expected at least through January
- Mandatory water use restrictions possible

# Metropolitan has assessed its health and safety needs for the “SWP Only” areas



# DWR's health and safety needs request

- Article 18 (a) stipulates that if required, DWR may allocate SWP supplies on the basis of meeting minimum demands of contractors domestic, fire protection, or sanitation water needs during the year.
- Metropolitan's interpretation of this minimum demand includes the following components:

## Health & Safety Needs



*Drinking Water*



*Sanitation*

## Critical Needs



*Fire Suppression*



*Commercial  
Industrial  
Institutional*

## Excludes



*Outdoor Watering*

# Preparing for 2022



# Fall 2021 Precipitation Outlook

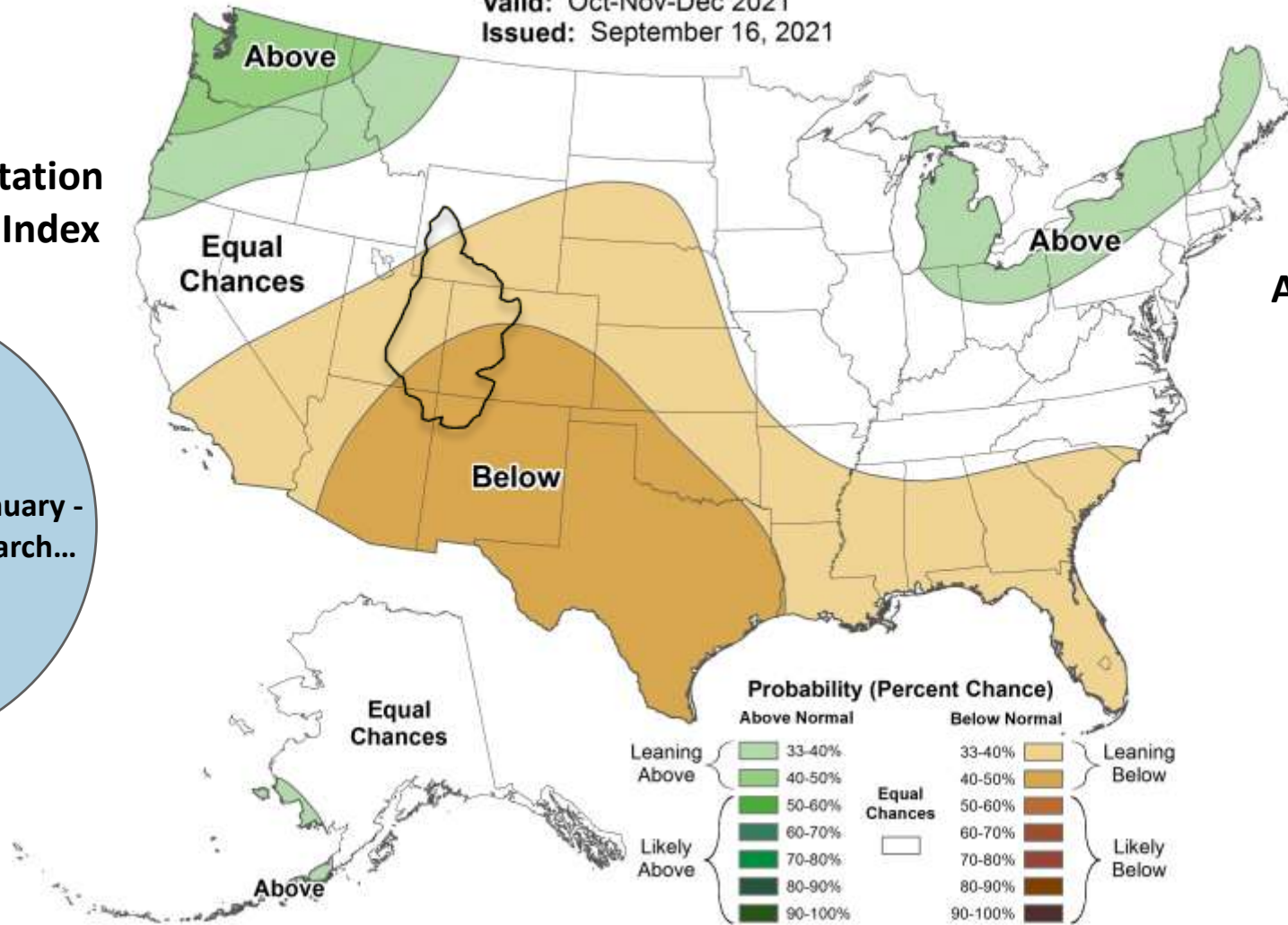
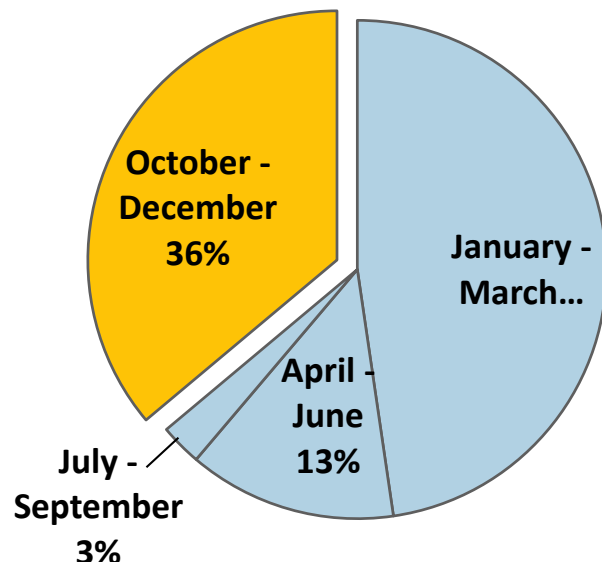


## Seasonal Precipitation Outlook

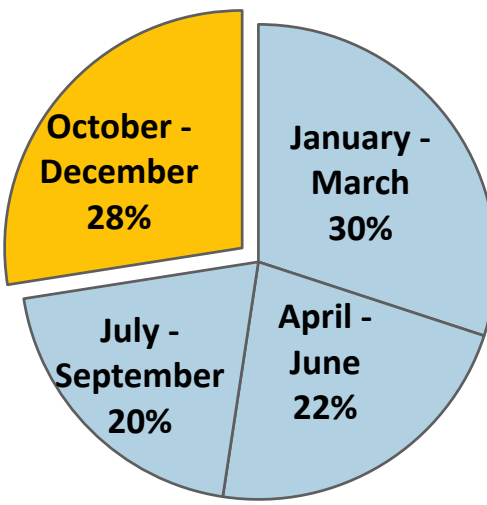


Valid: Oct-Nov-Dec 2021  
Issued: September 16, 2021

Annual Average Precipitation  
Distribution: 8 Station Index

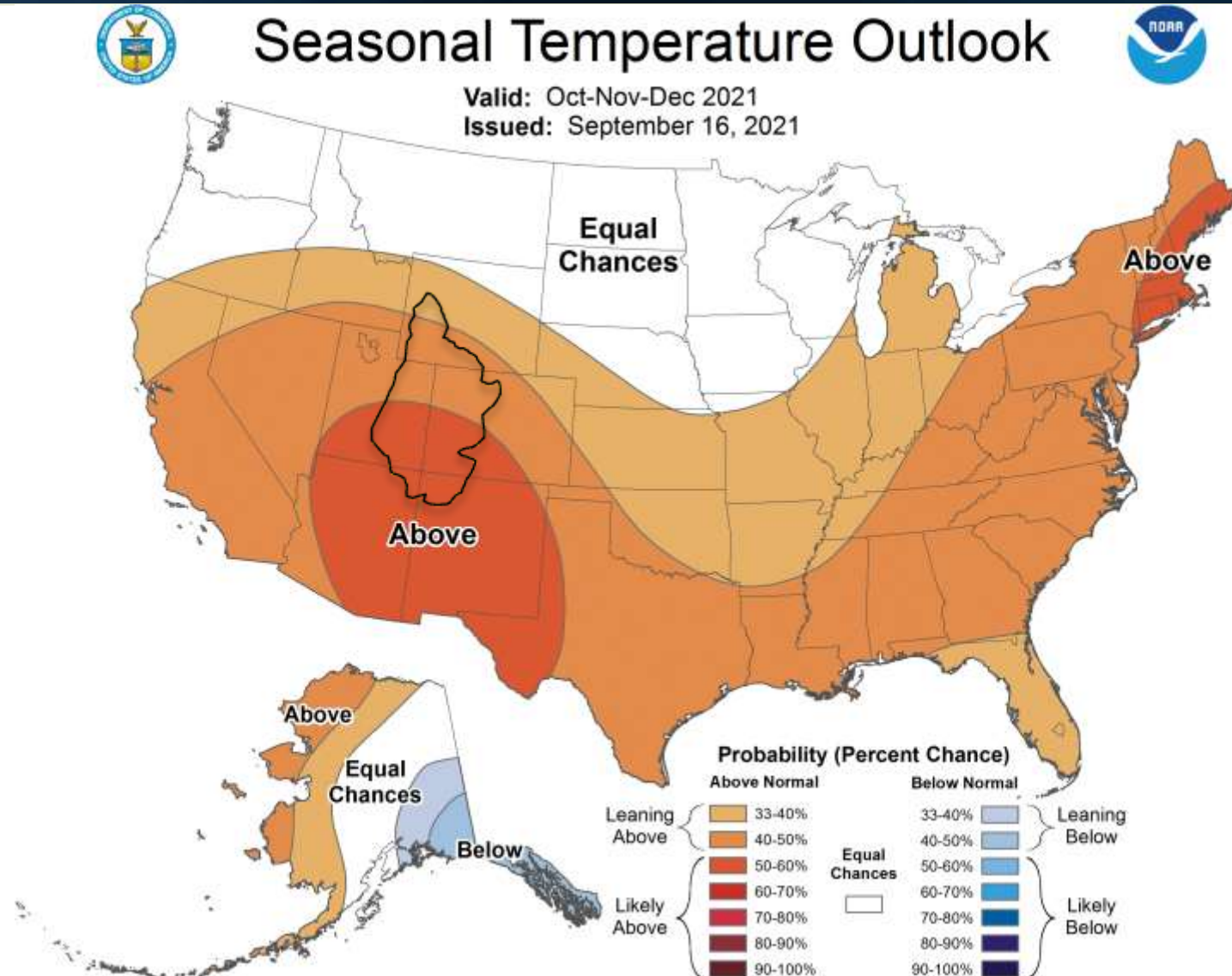


Annual Average Precipitation  
Distribution:  
Upper Colorado River Basin





# Fall 2021 Temperature Outlook



# Potential actions for consumers to reduce non-critical water use

- Restrict landscape watering days
- Prohibit irrigation within 48 hours after rain event
- Prohibit car washing
- Restaurants to only serve water upon request
- Lodging establishment to offer opt out of linen service

# Summary

- Below normal snowpack, hot and dry conditions, and extremely low runoff for both imported supply watersheds in water year 2020/21
- DWR is signaling and planning for a dry 2022
  - Metropolitan completes its health and safety needs assessment for the SWP only areas
  - Metropolitan has been planning for a 0% initial SWP allocation
- Metropolitan is prepared to make calls for additional steps to save water should dry conditions continue through the fall

