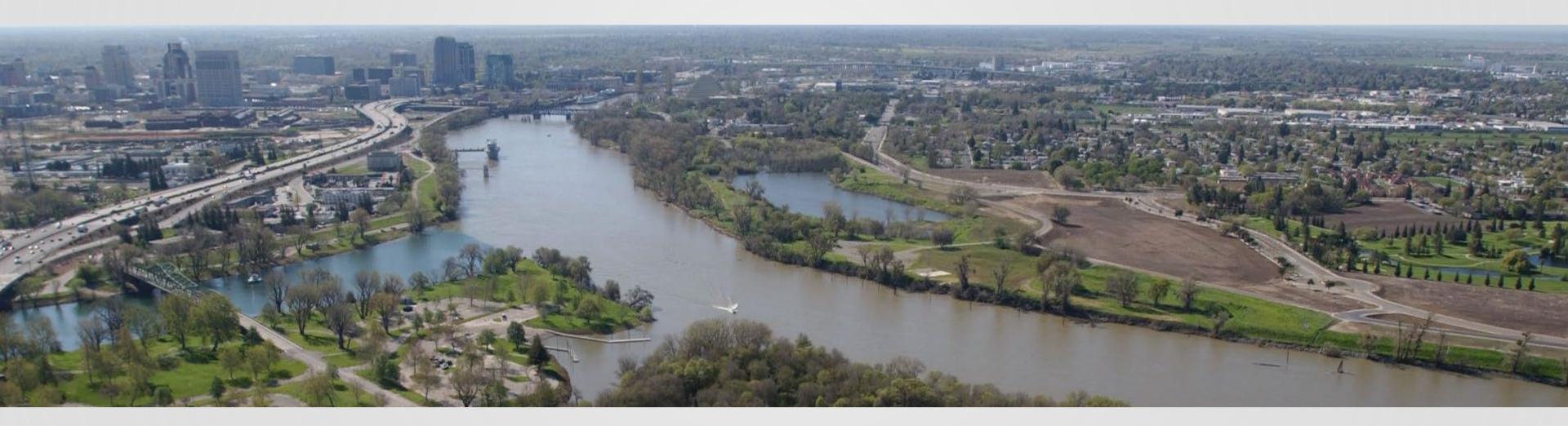
### CALIFORNIA DEPARTMENT OF WATER RESOURCES

## **2022 SWP Drought Planning**



**California Water Commission** February 16, 2022

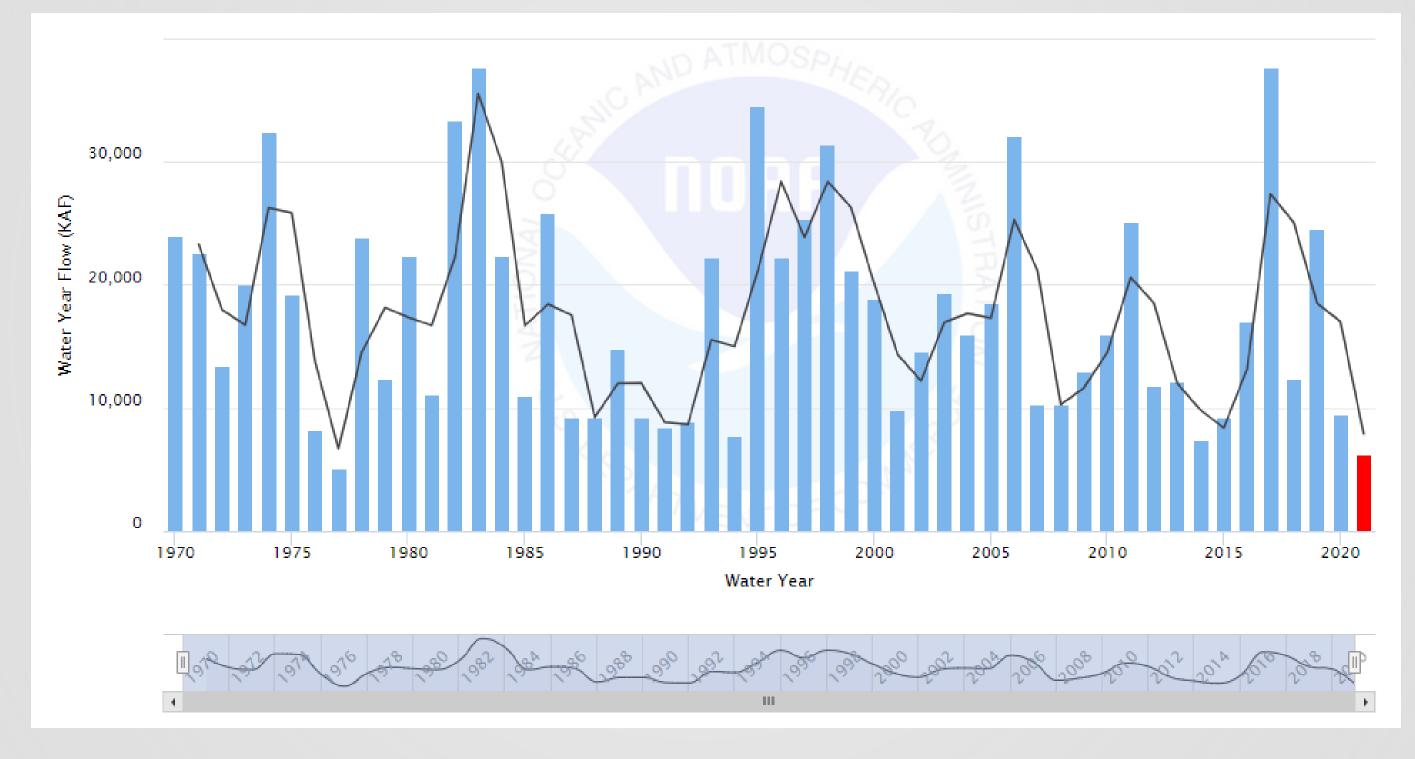
John Yarbrough **Assistant Deputy Director State Water Project** 

# **Presentation Topics:**

- 2021 Water Year Re-Cap
- 2022 Water Year to date
- Planning for the remainder of 2022

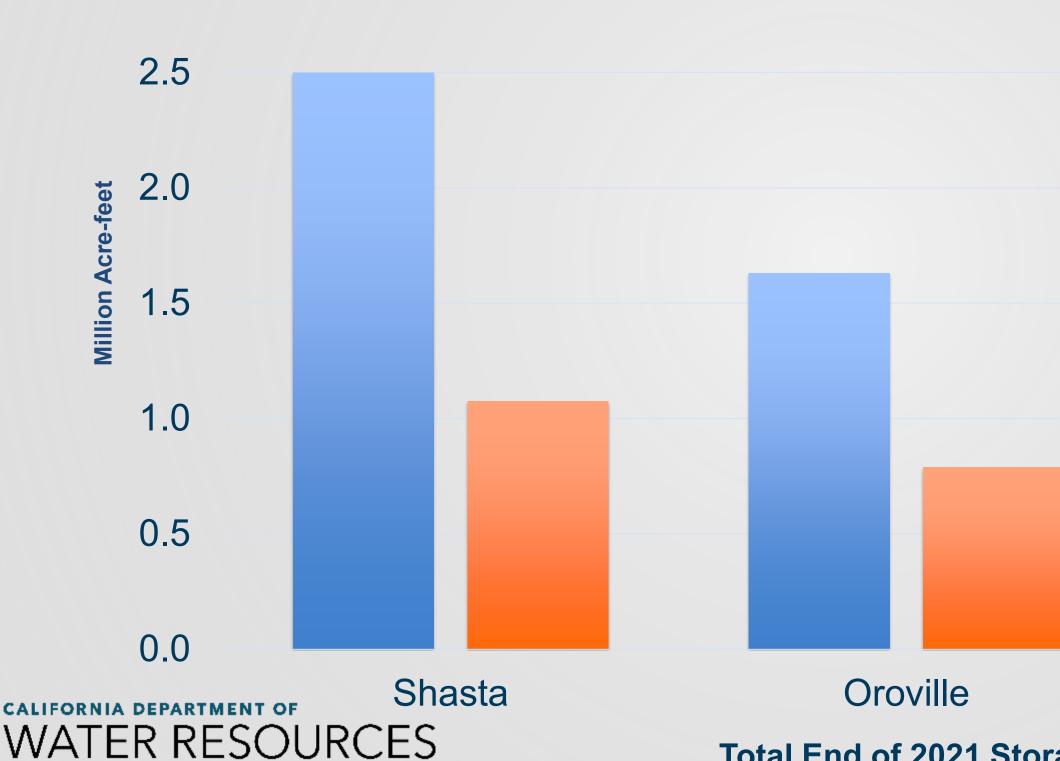


# Key Takeaway: Dry Conditions = Low Runoff





### **2021 Ends with Record Low Storage End of Year Storage** 3.0







### Folsom

**Total End of 2021 Storage: 2.09 Million Acre-Feet** 

# **2021 Takeaways:**

- Spring 2021 was the warmest and driest on record
- These extremes challenged traditional water supply forecasting methods
- Water supply planning must consider more extreme scenarios



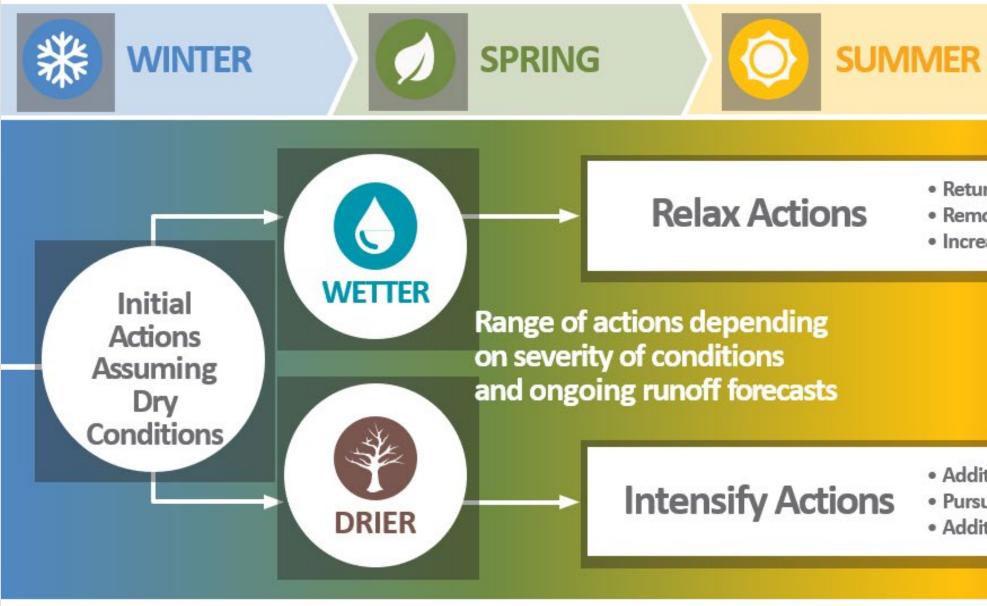
# 2022 Objectives

- Provide minimum health and safety needs
- Maintain Delta water quality
- Meet environmental needs to protect endangered species
- Conserve water storage to meet
  future critical needs
- Deliver water based on priority





## **DECISION PROCESS** for Water Supply, Conservation and Environmental Drought Actions





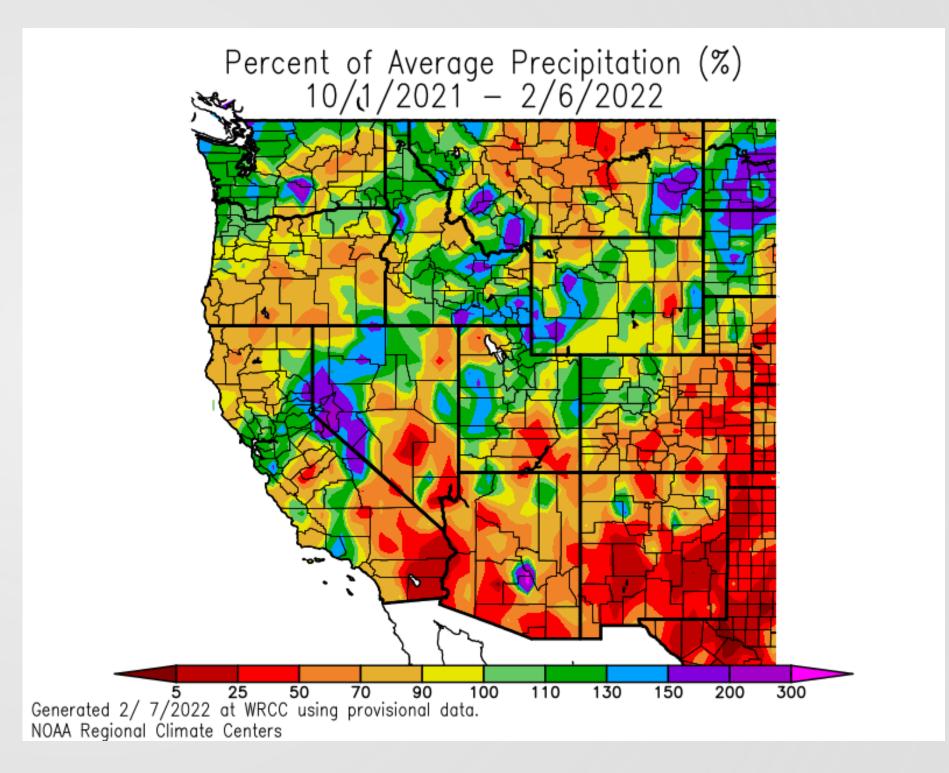


- Return to normal Delta operations
- Remove salinity barrier
- Increase SWP allocation

- Additional salinity barriers
- Pursue modified Delta operations
- Additional conservation in service areas

## Early Water Year 2022 Hydrology

- October: Wettest on record
- November: Top ten driest
- December: Top ten wettest
- January: Top 10 driest





## **December 1, 2021**

- **Filed TUCP for Feb-Apr**
- **Health and Safety based** allocation

### **January 18, 2021**

- **15% allocation**
- Withdrew TUCP

### STATE WATER PROJECT **DROUGHT ACTION MAP**





Health & Safety Supply to Bay Area, San Luis Reservoir

> Health & Safety Supply to Central and Southern California

### WATER SUPPLY PRIORITIES when in a drought

Health & Safety Salinity Control for Water Quality

**Endangered Species** 

**Conserve Storage** 

Additional Water Supply

### **DELTA EXPORTS**

WINTER/SPRING Capture storm flows

SUMMER

Health & Safety needs

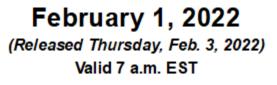
## **Drought Conditions**

- Very dry conditions, reduced storage in reservoirs and groundwater basins
- However, much of California is in a better position than last year

U.S. Drought Monitor California



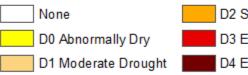




Drought Conditions (Percent Area)

|  | None | D0-D4  | D1-D4  | D2-D4 | D3-D4 | D4    |
|--|------|--------|--------|-------|-------|-------|
| Current                                  | 0.00 | 100.00 | 99.25  | 66.39 | 1.39  | 0.00  |
| Last Week<br>01-25-2022                  | 0.00 | 100.00 | 99.25  | 66.39 | 1.39  | 0.00  |
| 3 Month s Ago<br>11-02-2021              | 0.00 | 100.00 | 100.00 | 93.81 | 83.33 | 38.74 |
| Start of<br>Calend ar Year<br>01-04-2022 | 0.00 | 100.00 | 99.30  | 67.62 | 16.60 | 0.84  |
| Start of<br>Water Year<br>09-28-2021     | 0.00 | 100.00 | 100.00 | 93.93 | 87.88 | 45.66 |
| One Year Ago<br>02-02-2021               | 0.00 | 100.00 | 85.99  | 58.44 | 31.65 | 3.75  |

### Intensity:



D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

### Author:

Curtis Riganti National Drought Mitigation Center



### droughtmonitor.unl.edu

# Changes in Approach for 2022

- Consideration of more extreme scenarios when planning
- Adjustments to water supply forecasting approaches
- More frequent and earlier cross-agency coordination



# **2022 Drought Actions**

- Currently not expecting to need most intense drought actions
- Continue close coordination with USBR and senior water holders to facilitate transfers
- Continue forecast and modeling improvement efforts
- Continue to monitor and evaluate conditions to determine whether to:
  - Seek modified Delta standards
  - Backfill notch in the West False River salinity barrier







# **Next Steps**

- Continual update of water supply forecasts
- Analysis of whether drought actions are needed
- March 1 snow survey





### CALIFORNIA DEPARTMENT OF WATER RESOURCES



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