

FEB 2025

# Delta Plan Performance Measures

## 2024 Year in Retrospect

### Presentation Panel:

**Jeff Henderson**, Deputy  
Executive Officer

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**Scott Navarro**, Senior  
Environmental Scientist

**Hannah Chaney**, Environmental  
Scientist

**Dane Whicker**, Sea Grant Fellow

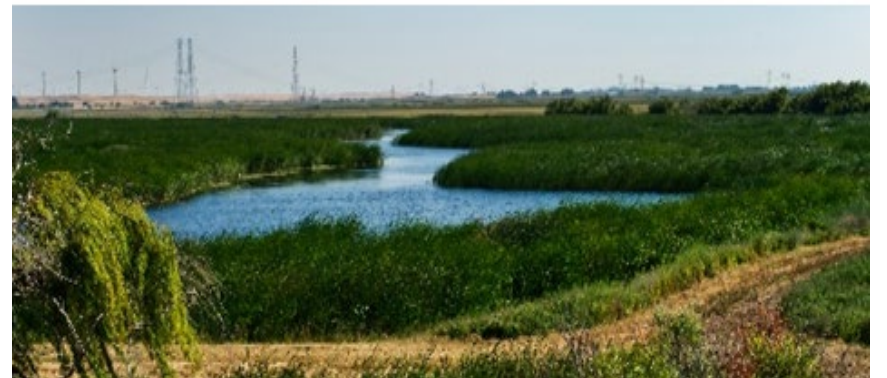


**Delta  
Stewardship  
Council**

A CALIFORNIA STATE AGENCY

# Performance Measures

- Measurable indicators of progress toward programmatic goals and objectives
- Based on Delta Plan core strategies, policies and recommended actions
- Establish metrics, baselines and dated targets for management outputs and system outcomes
- Evaluate how well the Delta Plan is working
- Required by the Delta Reform Act



# Performance Measure Presentation Outline

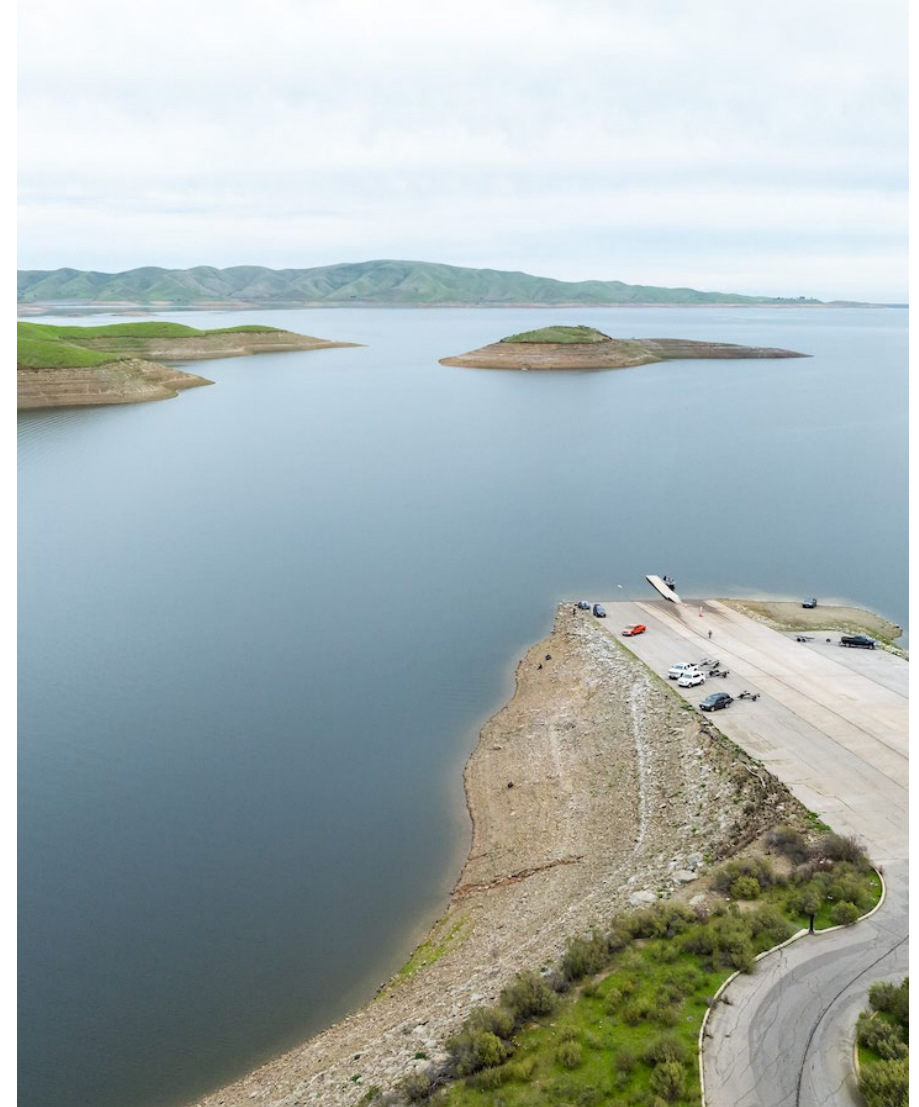
- **Urban Water Conservation**
- **Delta Salinity**
- **Harmful Algal Blooms**
- **Sustainable Groundwater Management**
  
- **Ecosystem Restoration**
- **Subsidence Reversal and Carbon Sequestration**
- **Yolo Bypass Floodplain Inundation**
- **Fish Passage Restoration**
- **Invasive Species**

# **WATER SUPPLY RELIABILITY AND WATER QUALITY**

# Water Year Conditions

## Water Year 2024:

- Follows a wet year from 2023.
- Average rainfall of 70–130% of normal precipitation amounts
- Hottest summers on the record in California; daily summer temperatures averaging 3–7°F higher than normal



# Urban Water Conservation

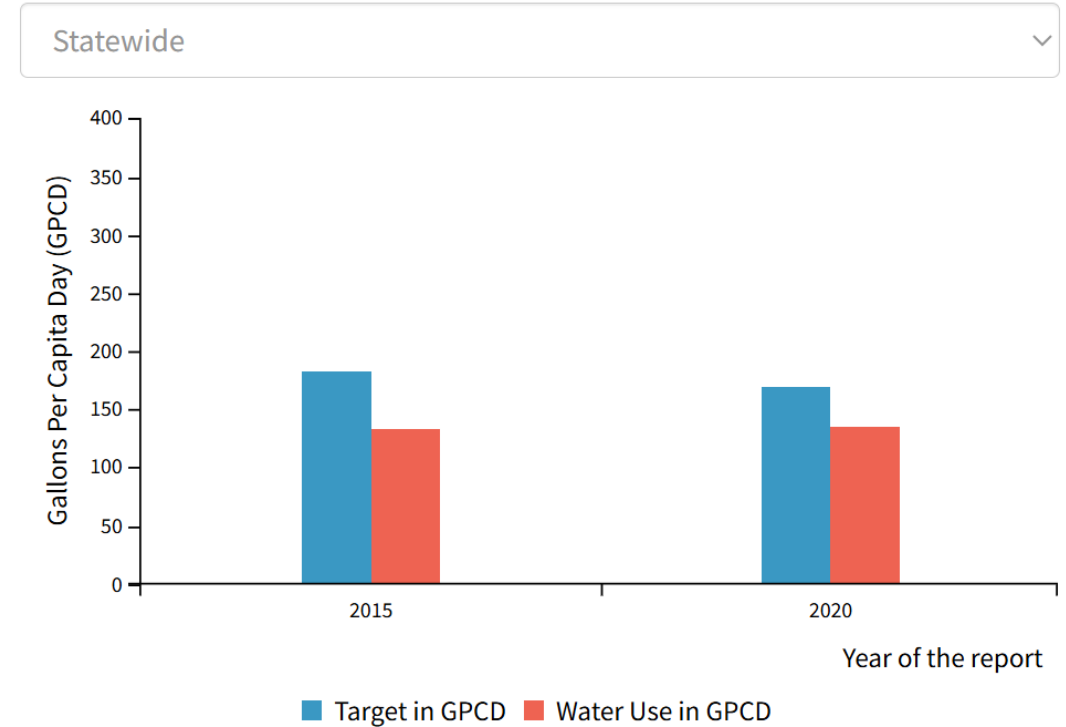
*Urban water suppliers that are within the Delta watershed, and those relying on water from the Delta watershed achieve their individual water efficiency targets*

**Baseline:** 2010 per capita water use

**Target:** Statewide 20% reduction in per capita water use over baseline by 2020

**Status:** The target was achieved

State Water Resources Control Board (SWRCB) adopted new regulations requiring urban water suppliers to establish new annual objectives for reducing indoor and outdoor water use



# Delta Salinity

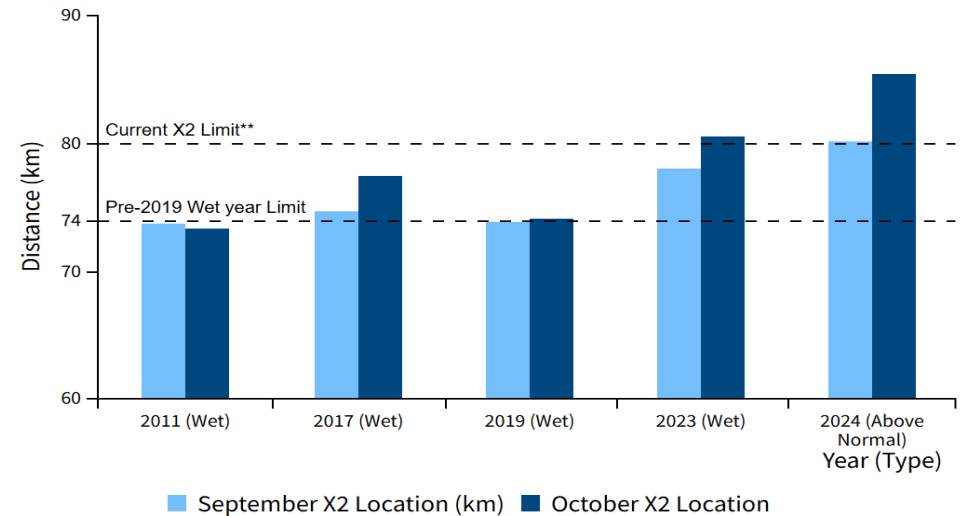
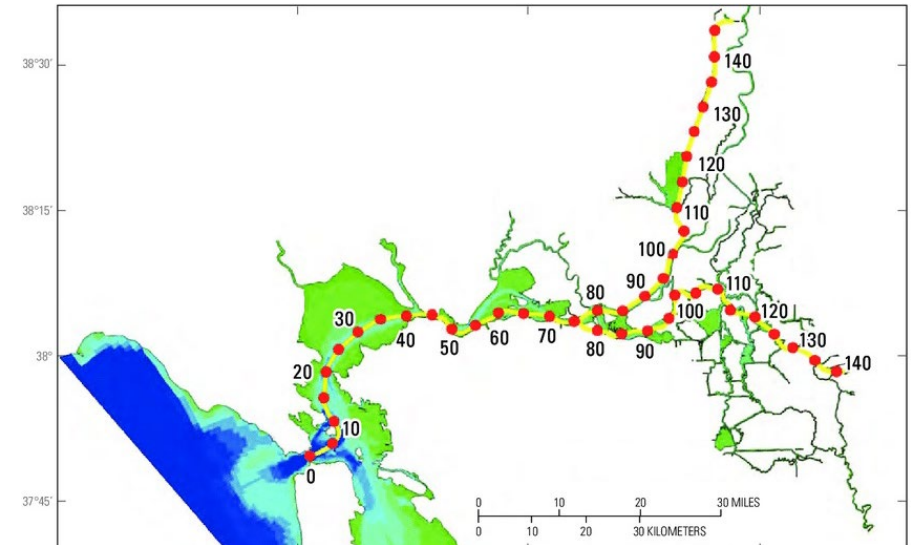
*Water management agencies comply with salinity objectives and requirements for X2*

**Baseline:** 1995-2015

**Target:** Meet salinity objectives at compliance points 99% of the time and meet X2 objectives

**Status:** Salinity objectives at compliance points were met 100% percent of the time

Fall X2 action amended and required for the month of September, augmented with daily operations of the Suisun Marsh Salinity Control Gates. October X2 action was not required



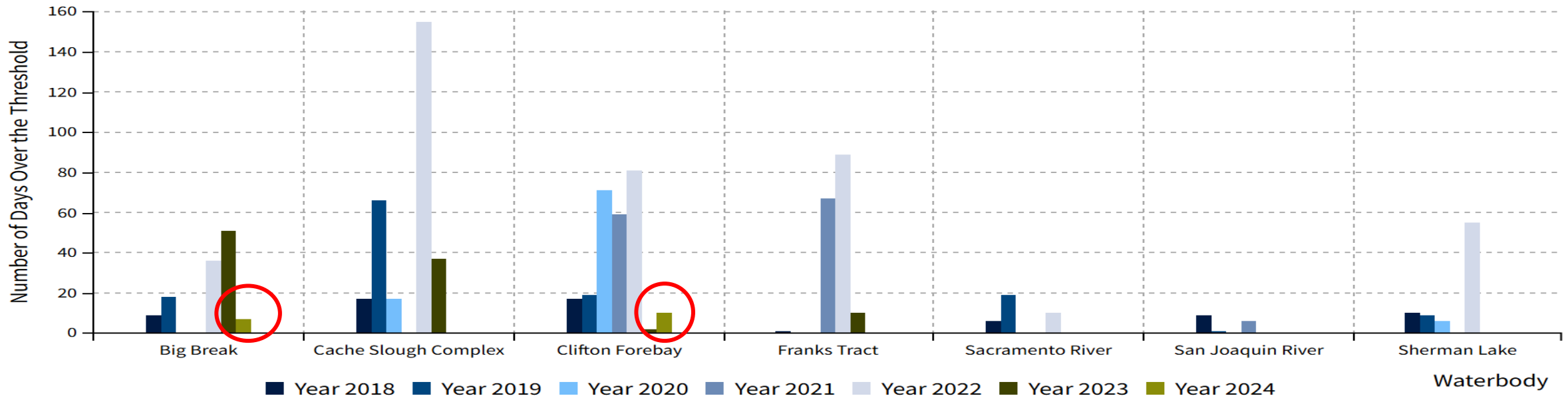
# Harmful Algal Blooms

*The extent of freshwater harmful algal blooms (HABs) in select Delta waterbodies is reduced*

**Baseline:** HABs acreages during 2016-2017 in satellite-based cyanobacteria screening tool

**Target:** Zero acres of waterbodies exceeding the cyanobacteria threshold of 100,000 cells/ml

**Status:**





# Sustainable Groundwater Management Act (SGMA)

- Administrative PM
- In 10 years SGMA has resulted in:
  - 250 Groundwater Sustainability Agencies (GSAs) formed
  - Over 100 Groundwater Sustainability Plans (GSPs) developed, and
  - Major improvements in groundwater data tracking, with over 9,000 wells monitored in WY 2024



# DELTA ECOSYSTEM

# Ecosystem Restoration

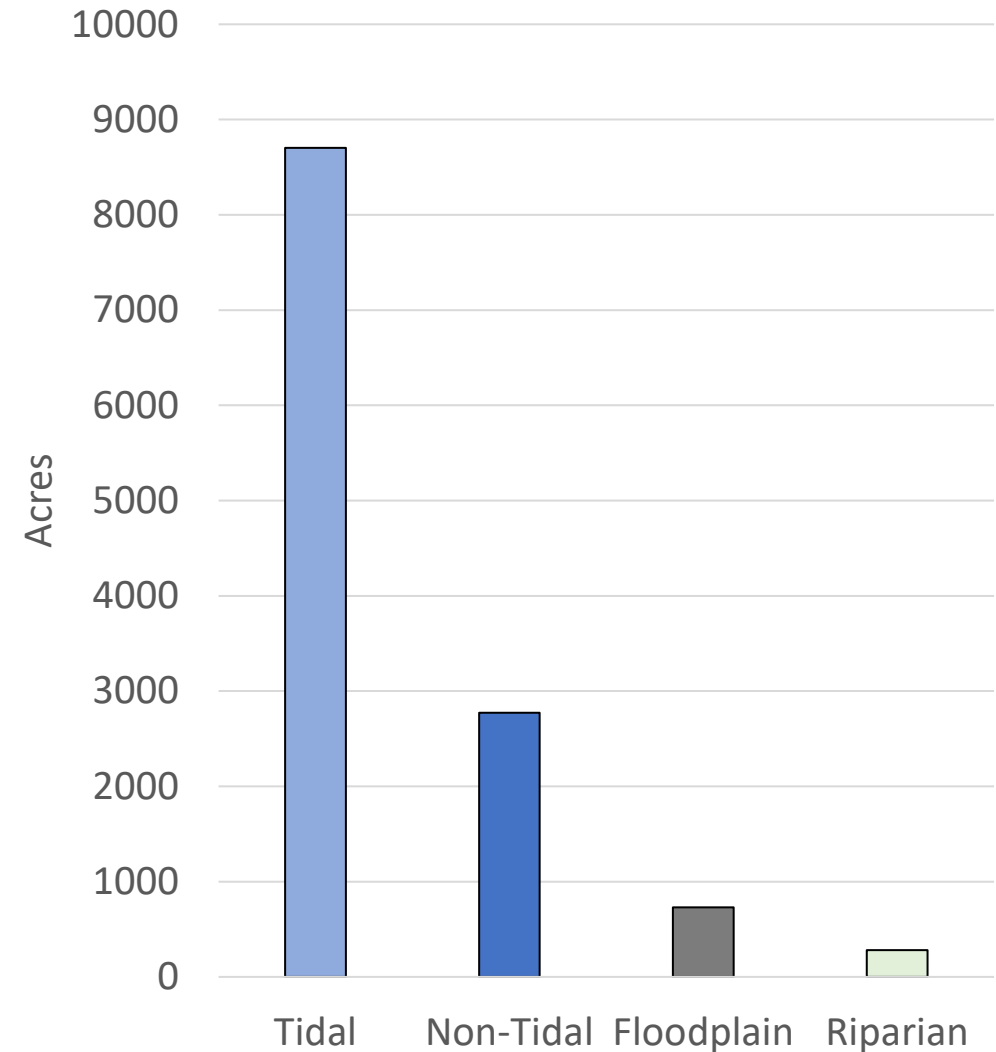
*Restore large areas of natural communities for habitat connectivity and ecological processes, to support populations of native species*

**Baseline:** 70,000 acres in 2007

**Target:** Add 60,000-80,000 acres by 2050

**Status:** 12,493 acres added 2008-2024

Restoration By Habitat Type, 2008-2024



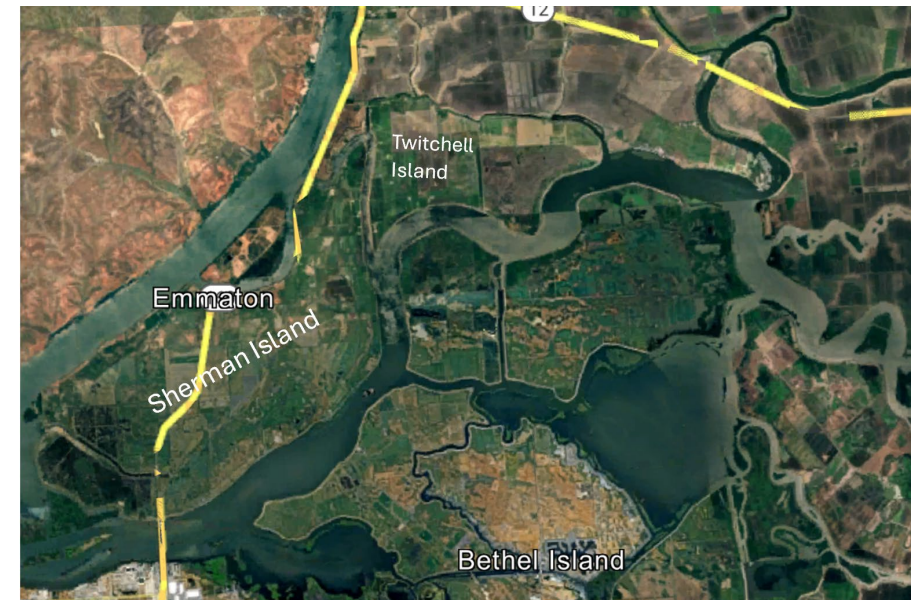
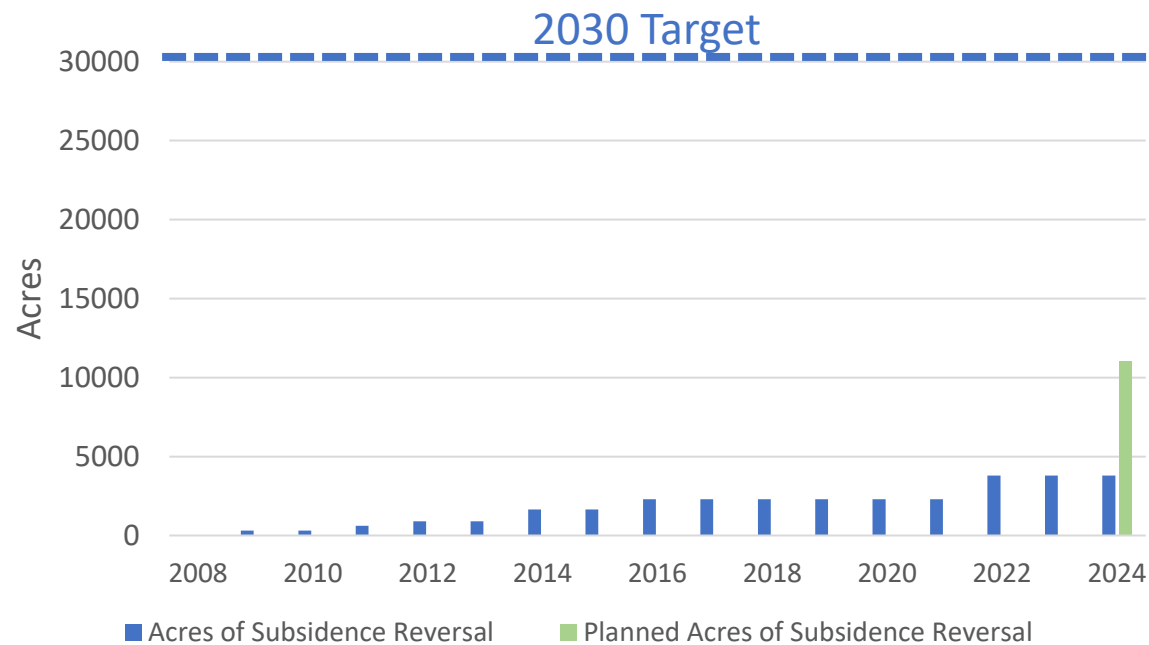


# Subsidence Reversal and Carbon Sequestration

**Metric:** Acres of subsidence reversal projects in the Delta

**Baseline:** Set at 0 acres in 2008

**Target:** 30,000 acres by 2030

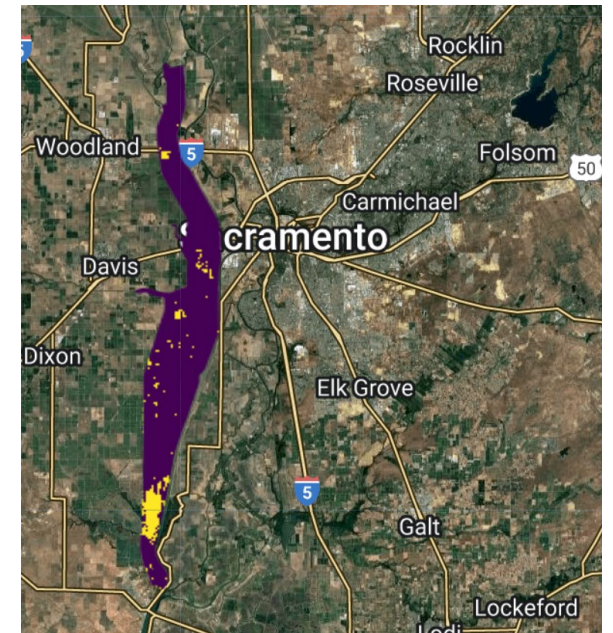
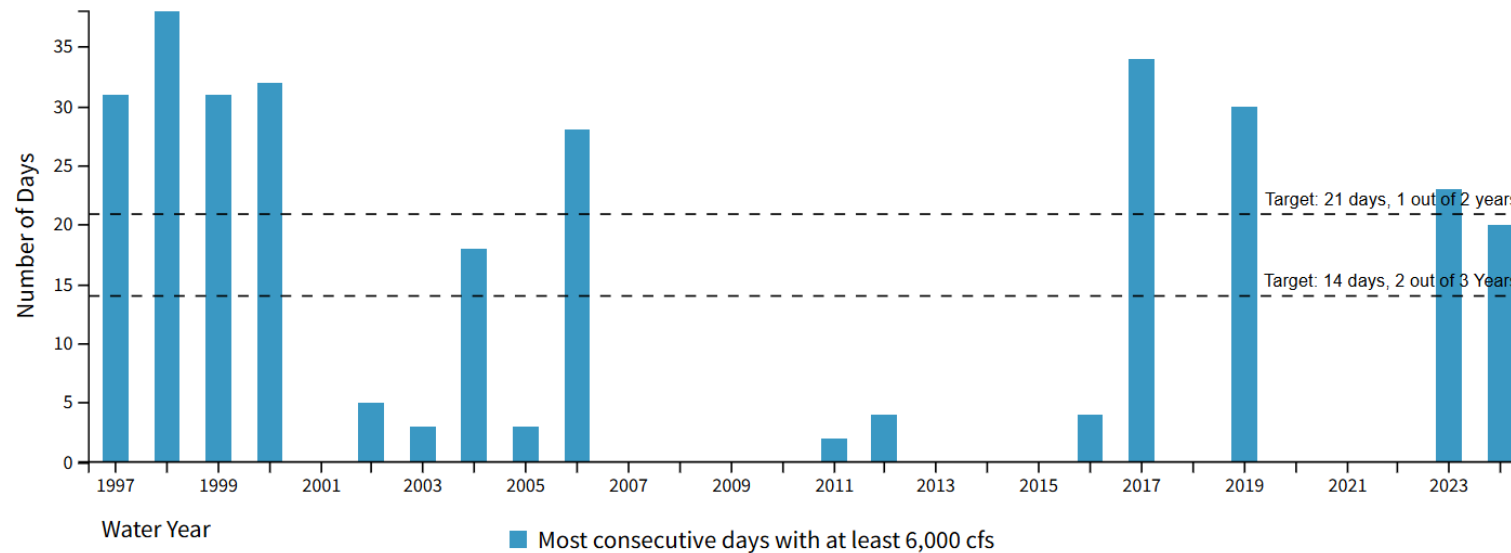


# Yolo Bypass Floodplain Inundation

**Baseline:** 1997-2012 inundation area, duration, and frequency

**Target:** At least 17,000 acres inundates for 14 days in two thirds of years, and for 21 days every other year

**Status:** Yolo Bypass inundated in 2023 for 23 days, and in 2024 for 20 days





# Fish Passage Restoration

*Restore barriers to fish passage to provide access to spawning grounds and contribute to species recovery*

**Baseline:** Barriers identified by CDFW and DWR and specific dams

**Target:** Fix all barriers identified in the baseline by 2030 and large rim dams by 2050

**Status:** Fish passage restored at 5 sites out of 57, and several sites are ongoing

- Several feasibility studies of Chinook Salmon returning to historic habitats above Dams





# Invasive Species

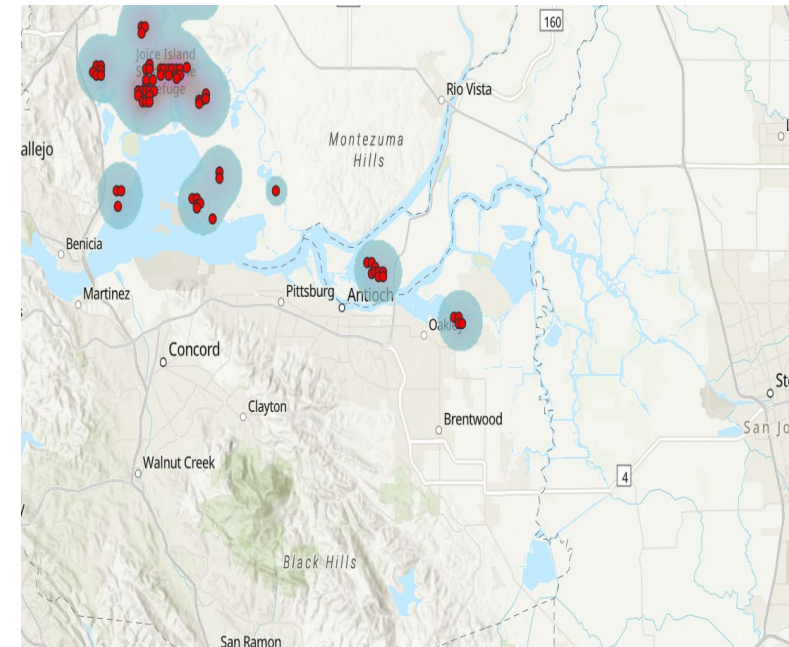
*New invasive species are prevented from establishing in the Delta*

**Baseline:** Non-native invasive species reported as established in the Delta prior to 2013

**Target:** Zero new non-native invasive species populations establish

**Status:**

- Nutria continues to proliferate, specifically in Suisun Marsh and Western Delta
- Golden Mussel was found in the Delta in October 2024



# Golden Mussels



Quagga Mussels in Lake Mead, NV



Golden Mussels attaching to a buoy (DWR 2024)



CDFW Map of Golden Mussel Detections in 2024

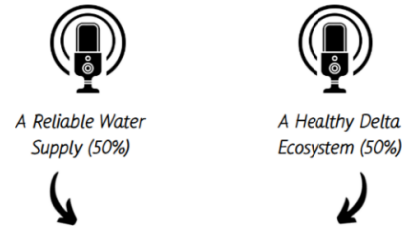
# OUTREACH AND COMMUNICATION

# The Delta Dispatch Podcast

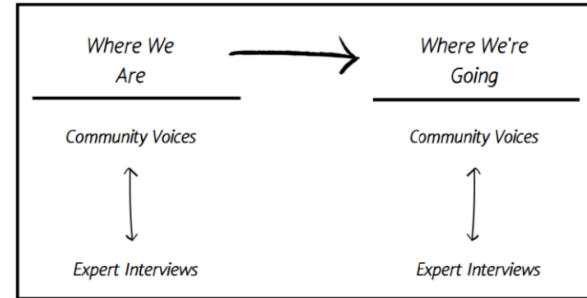
*Patching you through to the Sacramento San-Joaquin Delta*



### Series Format (All Episodes)



### Episode Format (Each Episode)



Harmful Algal Blooms



Subsidence



Delta Levees



California's Water Supply



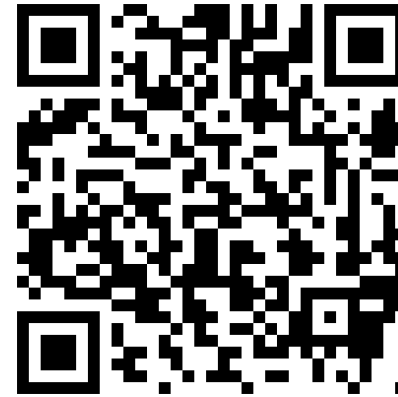
Ecosystem Restoration



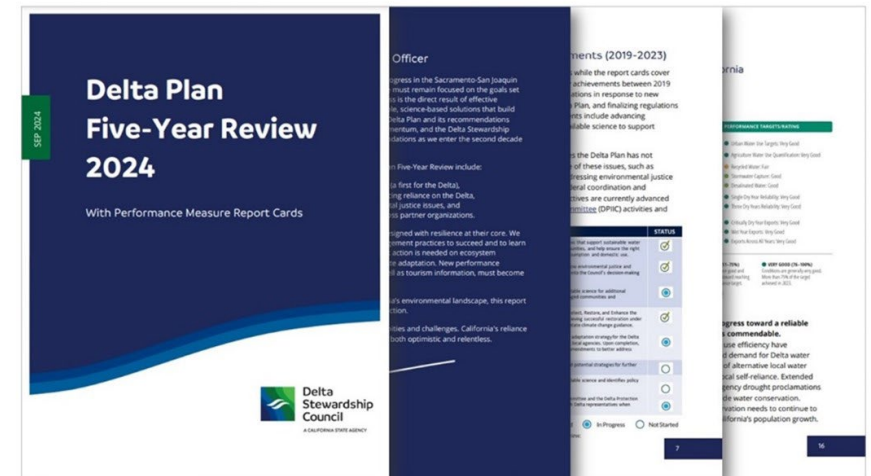
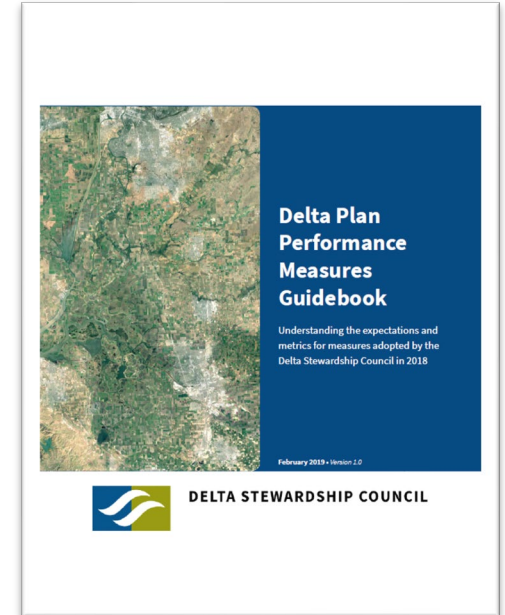
# WRAP UP

# Performance Measure Resources, Tools, Uses

- Online Dashboard
- Printed / Online Guidebook
- Educational Video
- Podcast Episodes
- Progress Report Cards
- Five-Year Review Recommendations



Scan QR Code to Access the Performance Measures Dashboard



# Upcoming in 2025

- Expand and revise performance metrics
- Incorporate emerging science
- Engage with agencies and stakeholders to inform decisions
- Feature partner accomplishments
- Continue annual updates and performance evaluations
- Enhance dashboard with additional functionalities and tools



# Thank you

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