

# Climate Change Program Annual Report

Item No. 5

Lahontan Water Board Meeting  
October 31, 2023



Laurie Scribe, Senior Environmental Scientist Specialist

# Presentation Outline

## ❖ Introduction

- Resolution R6T-2019-0277, Climate Change Mitigation and Adaptation Strategy
- Climate Change Mitigation and Adaptation Action Plan 2021

## ❖ Guest Presenter - Michael Dettinger: Simulated Hydrologic Responses to Climate Change Projections for the Lake Tahoe Basin

## ❖ Annual Reporting - July 2022 – June 2023

- Prior Year's Accomplishments
- Proposed Actions for coming year
- Updates on Partnerships
- Updates on Statewide activities

## ❖ Questions, Comments, and Discussion



# Simulated Hydrologic Responses to Climate Change Projections for the Lake Tahoe Basin



*Simulated Hydrologic Responses to Climate-Change Projections for the Lake Tahoe Basin*

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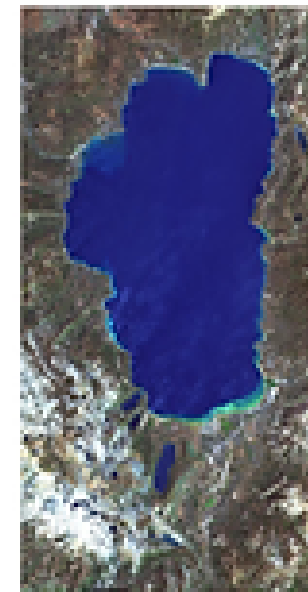
Michael Dettinger  
Seshadri Rajagopal

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March 2023

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Prepared by  
Division of Hydrologic Sciences, Desert Research Institute



1. Protection of Wetlands, Floodplains, & Headwaters



2. Infrastructure Protection



3. Protection of Groundwater Quality & Supply



4. Protection of Headwater Forests and Promoting Fire Resiliency

## Policy Statements

# Fiscal Year 2022-2023 Proposed Actions – How Did We Do?



Continue enforcement efforts; Utilization of new tools and processes

**Ongoing**



Continue efforts to renew old permits for regulated facilities

**Ongoing**



Groundwater Basin/Subbasin Alignment Project

**Incorporated into Salt and Nutrient Strategy**



Finalize regional forestry strategy and permit approach

**Completed**

# Additional Actions in Fiscal Year 22/23

- Permit Issued for Non-Chemical Aquatic Invasive Species Removal in Lake Tahoe
- Salt and Nutrient Planning Strategy Finalized
- Public outreach on Timber Waiver update



Photo: USDA Aquatic Research Unit

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# Proposed Actions – Fiscal Year 23/24

- Updating the Surface Water Ambient Monitoring Program Management Plan
  - Recommendation from the 20-Year Status and Trends Report
  - Incorporating Climate Change into management framework
- 2022 Triennial Review Item – Riparian, Floodplain, and Wetland Protection Updates
- Revised Timber Waiver – scheduled for April 2024 Board Meeting
- Continued Integration of Climate Change With Our Programs

# Partnerships and Outreach

Partnership	Policy Statement	Partner Agencies	Status
CA Tahoe Conservancy –Climate modeling for Tahoe Basin	1, 2, 3, 4	Multiple Tahoe basin agencies and Desert Research Institute	Completed
Mojave River Mitigation Bank	1, 3, 4	Army Corps of Engineers, CA Dept Fish and Wildlife, & others	Ongoing
Wildfire resiliency and forestry activities program	1, 4	Other Regional Boards	Ongoing



# Statewide Updates

- State Water Resources Control Board – Climate and Racial Equity Strategy (CARES)
  
- Office of Environmental Health Hazard Assessment - [Indicators of Climate Change in California \(Nov 2022\)](#)
  - Impacts to Big Pine Paiute
  - Impacts Bishop Paiute
  
- California's 5<sup>th</sup> Climate Change Assessment



# Comments, Questions, and Discussion