

Update on Golden Mussel Prevention Activities at Nacimiento and San Antonio Reservoirs



Golden Mussel – An Introduction

- Golden mussel was detected in the Sacramento-San Joaquin Delta in October 2024 – first recorded detection in North America
 - Native to China and Southeast Asia





Golden Mussel Biology

Three life stages

- Veliger in water column, microscopic
- Settlers settle on surfaces, sandpapery feel
- Adults reach 1-2 inches in size

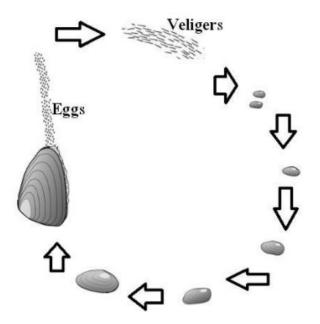


Image: Nevada Irrigation District



Golden Mussel Biology

- Reproduces rapidly

 6,000 to 20,000 larvae per cubic meter of water
- Can tolerate a wider range of temperature and salinity compared to quagga and zebra mussels.
- Grows in dense clumps containing 80,000-200,000 mussels per square meter.



Image: California Dept. of Fish and Wildlife

Environmental and Economic Impacts

- Mussels can clog water intakes, dam operations infrastructure, power plant equipment.
- Golden mussels are filter feeders that can consume large amounts of material that native species and sport fish depend on.
- Colonies can foul watercraft motors, docks, and boat launches.
- Increase harmful algal blooms.

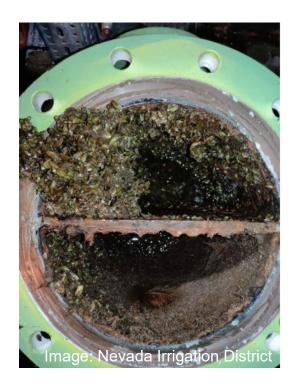




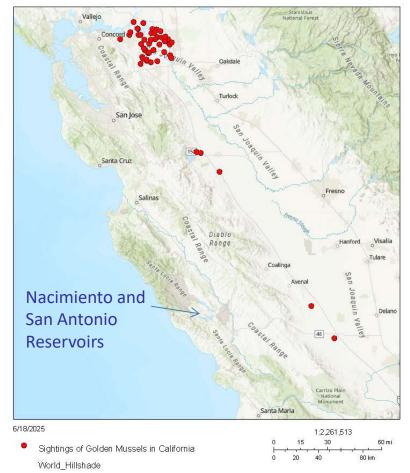
Image: Darrigran G., National University of La Plata

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Golden Mussel Detections

Golden Mussel Presence and Absence in California



California Department of Fish and Wildlife maintains a map with data from surveys for golden mussels conducted by state, federal, and local agencies.

Sources: Esri, Tom Tom, Gamin, FAO, NOAA, USGS, C OpenStreetUlap contributors, and the GIS User Community, Esri, USGS

www.wildlife.ca.gov/Conservation/Invasives/Species/Golden-Mussel



A range of responses around the State

CDFW developed interagency Golden Mussel Task Force Some reservoirs closed to boating for 2025

30-day quarantine requirements

Quarantine bands or seals for boats that have been inspected

Prohibition on certain vessel types

Require inspections before launching



Local Actions

- Mandatory vessel inspections before launching at Nacimiento and San Antonio Reservoirs.
 - Inspection procedures used historically for quagga and zebra mussels are effective for golden mussel.
- Coordination between the Agency and

 County of Monterey Parks Division
 County of SLO Public Works
 - Private communities around Nacimiento Reservoir



Local Actions

- Increased Agency involvement and frequency of communication with Park rangers and program staff.
- May 2025 Agency applied for a grant from CDFW to fund equipment purchases, facility enhancements, and training to support invasive mussel prevention efforts at both reservoirs. Award notification is anticipated in July 2025.



Local Actions

clean drain dry 🛬 **STOP INVASIVE MUSSELS** SLOCountyWater.org



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