



Whiskeytown, Shasta & Trinity Lakes National Recreation Area Boater Alert



Please help us protect our lakes and everyone's recreational experience!

CLEAN, DRAIN & DRY

We don't have them now, we don't ever want to have them, and we should all do everything we can to prevent them from coming here!

Quagga and zebra mussels are a threat to our area and are now close by! The Colorado River system and many lakes in southern California have recently become infested (see list below). Since invading the U.S. in 1989, Quagga and zebra mussels have become a 5 billion dollar maintenance and damage problem east of the Rockies. They have altered fish and aquatic ecosystems, have caused extensive damage to boats, marinas, and water intake facilities, and will undoubtedly hurt us locally if they become established here.



Quagga Mussels

Preventing the spread of these mussels will save a lot of money for private boaters and government, and will avoid significant and possibly irreversible damage to our ecosystems.



Zebra Mussels

If your vessel has been moored anywhere in fresh water outside of Shasta or Trinity County you present a high risk!

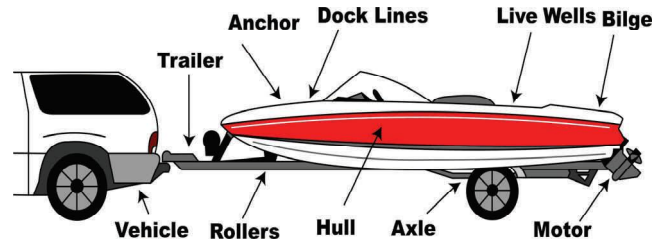
Do not launch your boat into local waters without a thorough cleaning and inspection that follows the instructions below. A certified inspection and cleaning is recommended, but you may do this yourself. Contact Fish & Game or your marina operator for instructions and assistance.

If your vessel has been moored in infested waters (see list below) you present the most extreme risk!

Do not launch your boat into local waters without a thorough cleaning and certified inspection. Contact Fish & Game or your marina operator for instructions on how to certify your boat.

To clean your vessel:

- Inspect all exposed surfaces – mussels may be quite small, and may feel like sandpaper to the touch
- Wash the hull of your watercraft thoroughly (hot water is best – 140° kills the mussels)
- Remove all plant and animal material, drain all water, and dry all areas (do not forget to dry behind the motor, around clamps, wake-boarding ballast, trailer cushions, etc.)
- Drain and dry the lower outboard unit (don't forget inside and around the drain plug)
- Clean and dry any live-wells, holding areas, buckets, ice chests, etc. Dispose of all bait in the trash.
- Wait from 5 days in summer heat or up to 30 days in cool, moist weather and keep watercraft dry between launches into different fresh waters
- Do not let potentially contaminated water enter storm drains or other areas away from the source lake



For personal watercraft, impeller areas can contain quagga and zebra mussels and aquatic plants. Once upon the trailer, run the engine for five to 10 seconds to blow out excess water, mussels and plants. Before leaving water access, inspect and remove any mussels or plants from intake, steering nozzle, hull, and trailer.

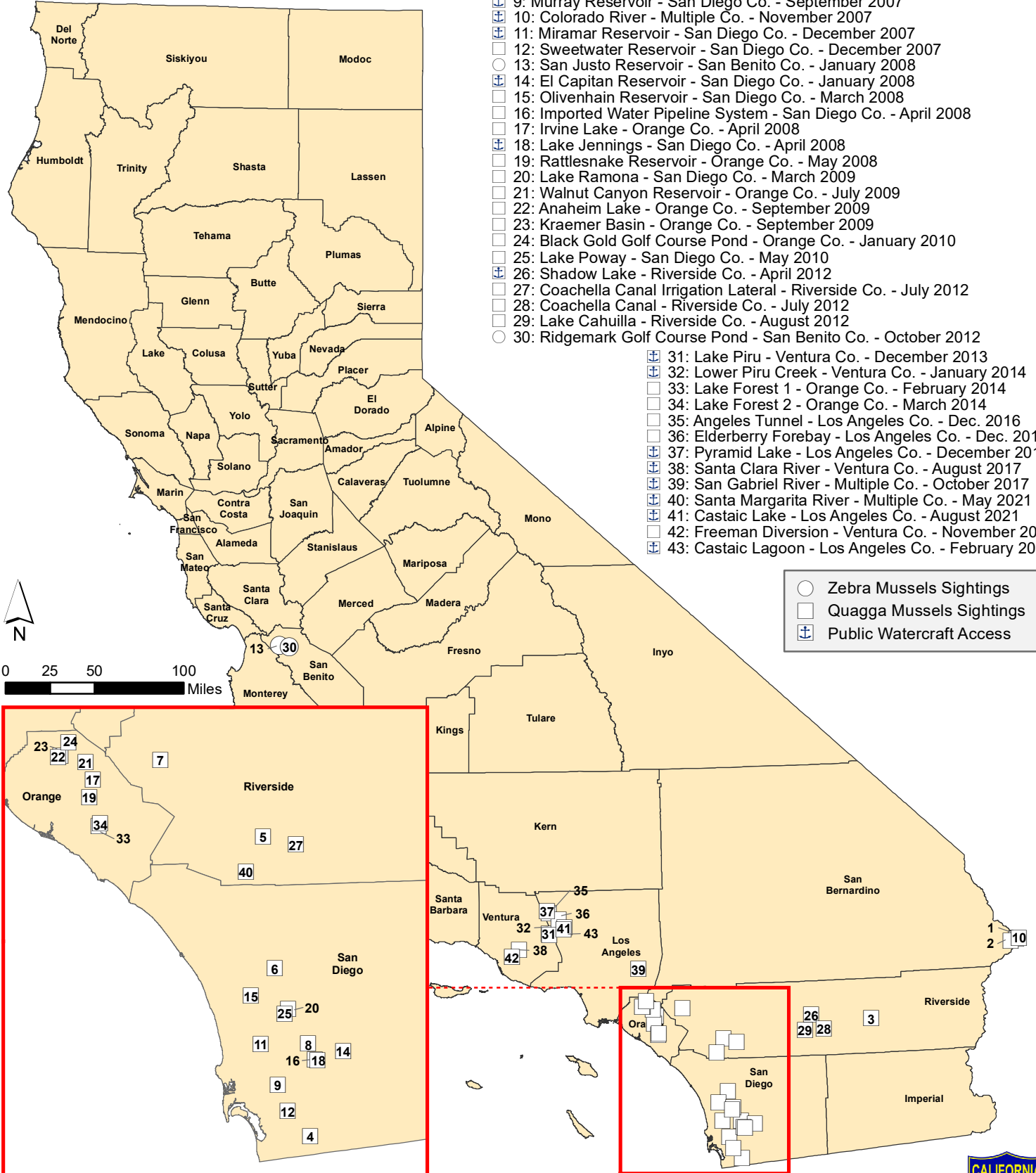
**The one time you fail to act may be the time that hurts us all!
Please clean your vessel every time! Thank you for doing your part.**

Infested Waters (May 2010): Colorado River (Lake Powell, Lake Mead, Lake Mohave, Lake Havasu, Imperial Dam), Copper Basin Reservoir, Lake Mathews, Lake Skinner, Dixon Reservoir, Lower Otay Lake, San Vicente Reservoir, Murray Reservoir, Lake Miramar, Sweetwater Reservoir, San Justo Lake, El Capitan Reservoir, Lake Jennings, Olivenhain Reservoir, Irvine Lake, Rattlesnake Reservoir, Lake Ramona, Walnut Canyon Reservoir, Kraemer Basin, Anaheim Lake, Yorba Linda (golf course pond), and Lake Poway.

Quagga and Zebra Mussel Sightings Distribution in California, 2007 - 2024

LOCATIONS

- ⊕ 1: Lake Havasu - San Bernardino Co. - January 2007
- 2: Copper Basin Reservoir - San Bernardino Co. - March 2007
- 3: Colorado River Aqueduct - Multiple Co. - July 2007
- ⊕ 4: Lower Otay Reservoir - San Diego Co. - August 2007
- ⊕ 5: Skinner Reservoir - Riverside Co. - August 2007
- ⊕ 6: Dixon Reservoir - San Diego Co. - August 2007
- 7: Lake Matthews - Riverside Co. - August 2007
- ⊕ 8: San Vicente Reservoir - San Diego - August 2007
- ⊕ 9: Murray Reservoir - San Diego Co. - September 2007
- ⊕ 10: Colorado River - Multiple Co. - November 2007
- ⊕ 11: Miramar Reservoir - San Diego Co. - December 2007
- 12: Sweetwater Reservoir - San Diego Co. - December 2007
- 13: San Justo Reservoir - San Benito Co. - January 2008
- ⊕ 14: El Capitan Reservoir - San Diego Co. - January 2008
- 15: Olivenhain Reservoir - San Diego Co. - March 2008
- 16: Imported Water Pipeline System - San Diego Co. - April 2008
- 17: Irvine Lake - Orange Co. - April 2008
- ⊕ 18: Lake Jennings - San Diego Co. - April 2008
- 19: Rattlesnake Reservoir - Orange Co. - May 2008
- 20: Lake Ramona - San Diego Co. - March 2009
- 21: Walnut Canyon Reservoir - Orange Co. - July 2009
- 22: Anaheim Lake - Orange Co. - September 2009
- 23: Kraemer Basin - Orange Co. - September 2009
- 24: Black Gold Golf Course Pond - Orange Co. - January 2010
- 25: Lake Poway - San Diego Co. - May 2010
- ⊕ 26: Shadow Lake - Riverside Co. - April 2012
- 27: Coachella Canal Irrigation Lateral - Riverside Co. - July 2012
- 28: Coachella Canal - Riverside Co. - July 2012
- 29: Lake Cahuilla - Riverside Co. - August 2012
- 30: Ridgemark Golf Course Pond - San Benito Co. - October 2012
- ⊕ 31: Lake Piru - Ventura Co. - December 2013
- ⊕ 32: Lower Piru Creek - Ventura Co. - January 2014
- 33: Lake Forest 1 - Orange Co. - February 2014
- 34: Lake Forest 2 - Orange Co. - March 2014
- 35: Angeles Tunnel - Los Angeles Co. - Dec. 2016
- 36: Elderberry Forebay - Los Angeles Co. - Dec. 2016
- ⊕ 37: Pyramid Lake - Los Angeles Co. - December 2016
- ⊕ 38: Santa Clara River - Ventura Co. - August 2017
- ⊕ 39: San Gabriel River - Multiple Co. - October 2017
- ⊕ 40: Santa Margarita River - Multiple Co. - May 2021
- ⊕ 41: Castaic Lake - Los Angeles Co. - August 2021
- 42: Freeman Diversion - Ventura Co. - November 2023
- ⊕ 43: Castaic Lagoon - Los Angeles Co. - February 2024



- Zebra Mussels Sightings
- Quagga Mussels Sightings
- ⊕ Public Watercraft Access

Note: Numbering of locations changed from earlier versions, because duplicates (additional sightings within the same waterbody or conveyance) were dropped.
 Data Sources: CA Department of Fish and Wildlife, City of San Diego Water Authority, Imperial Irrigation District, Helix Water District, Irvine Ranch Water District, Coachella Valley Water District, National Park Service, CA Department of Water Resources, Los Angeles Department of Water and Power, United Water Conservation District. Map produced by the California Department of Fish and Wildlife, May 02, 2024.

