

Quagga and Zebra Mussel Infestation Prevention Grant Program
Aquatic Invasive Species Branch
Division of Boating and Waterways
February 9, 2023

Since 2014, the Division of Boating and Waterways (DBW) Quagga and Zebra Mussel Infestation Prevention Grant Program (QZ Grant Program) provides grant funding to eligible owners or managers of reservoirs, for prevention plans, outreach and education, monitoring, and management of recreational activities to help stop the further spread of quagga and zebra mussels into California’s waterways. This Program is funded from a fee collected by the Department of Motor Vehicles (DMV) biennially, through the sale of the Mussel Fee Sticker (aka Quagga Sticker), in the amount of \$16.00, from recreational vessels operating in fresh water. These fees are transferred to the Harbors and Watercraft Revolving Fund.

Eligibility for the program is a three-part requirement: 1) the person or entity manages *any aspect of the water* in a reservoir; 2) the reservoir must be open to the public where recreational, boating, or fishing activities are permitted; and 3) QZ mussels must not be detected. As of January 2023, 95 grant applications were funded since the Program’s inception with approximately \$22 million awarded statewide. The review panel for grant awards consists of Division of Boating and Waterways staff, DBW management, and eight California Department of Fish and Wildlife staff (CDFW), six of which are located in field offices throughout the state.

Grant Year	Funded Applications/Projects	Amount Funded
2014/15	15	\$2,288,000.55
2015/16	19	\$4,682,831.60
2016/17	9	\$1,887,872.66
2017/18	13	\$2,251,476.91
2018/19	11	\$3,142,458.05
2019/20	8	\$1,705,005.47
2021	10	\$2,898,651.90
2022	10	\$2,961,329.58
Total	95	\$21,817,626.72

Solicitation for the 2023 grant cycle is expected to begin in April 2023. At this time, it is unknown how much will be available to award; DBW may not know until July 2023. Of the available funding, up to \$200,000 per application can be requested for Tier 1 Projects, which is for the initial development of or revisions to existing Prevention Plans to meet CDFW regulatory requirements; and up to \$400,000 per application for Tier 2 Implementation Projects, which are for inspections, equipment, outreach, etc. Information on the QZ Grant Program, including a link to sign-up for the QZ Grant notifications, is available at: www.dbw.ca.gov/QZGrant

Mussel Fee Sticker update: The mussel sticker can be purchased at: www.dmv.ca.gov/musselfee or at DMV Field Offices. DBW messaged this change which took effect in 2022, through an insert in the DMV vessel registration renewal mailouts, social media, Parks' Weekly Digest, DMV press release, DBW and DMV website updates, Constant Contact, and e-mails to the QZ Grantees and Recreational Boaters of California. Mussel sticker sales are down. DBW is working towards increasing compliance through greater outreach, researching the bail schedule for applicable enforcement code citations, and coordination with local law enforcement.

The Quagga and Zebra Mussel Infestation Prevention Grant Program objectives are:

- To provide grant funding for prevention plans and implementation projects initiated by eligible entities that own or manage un-infested reservoirs, which are open to the public for recreational use.
- To prevent the spread of quagga and zebra mussel into other California and neighboring state waterways through a regional-scale prevention effort; and
- To educate boaters about environmentally sound boating practices such as Clean, Drain and Dry.

DBW and CDFW are working cooperatively and collaboratively with the California's Quagga/Zebra Mussel Interagency Taskforce, including other departments and stakeholders such as the California Department of Food and Agriculture, the Department of Water Resources, federal agencies, local waterbody managers, local and bordering law enforcement, the Western Regional Panel on Aquatic Nuisance Species, and boating associations. As a process improvement measure as well as for efficiency, DBW developed templates for all applicant/grant required documents, to streamline the grant process. As a continuous improvement measure, DBW and CDFW communicate and coordinate to establish mutual goals, objectives, and deliverables to further demonstrate effective metrics, and accountability for the use of Harbors and Watercraft Revolving Funds.

Attached to this briefing are two maps:

1. The Quagga and Zebra Mussel Infestation Prevention Grant Program map displays the location of the reservoirs funded by the QZ Grant for the 2022 grant cycle (see page 3). The map can also be found at the following link:
<https://dbw.parks.ca.gov/pages/28702/files/QuaggaZebraMap2022.pdf>
2. The Quagga and Zebra Mussel Sightings Distribution map, which CDFW maintains, displays the California waterbodies with mussels sighted as of 8/20/2021 (see page 4). The map can also be found at the following link:
<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=140819&inline>.

Quagga and Zebra Mussel Infestation Prevention Grant Program for 2022

California Department of Parks and Recreation Division of Boating and Waterways



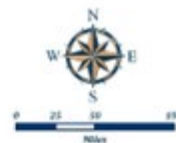
Grantee Agencies

- A** Big Bear Municipal Water District
- B** County of Mendocino
- C** Humboldt Bay Municipal Water District
- D** Lake County Watershed Protection District
- E** Santa Clara County Parks and Recreation Department
- F** Solano County Water Agency
- G** Sonoma County Water Agency
- H** Tahoe Regional Planning Agency



Grantee Reservoir Locations

- 1** Big Bear Lake
- 2** Upper and Lower Mill Creek Ponds
- 3** Ruth Lake
- 4** Clear Lake
- 5** Calero Reservoir
- 6** Lexington Reservoir
- 7** Lake Berryessa
- 8** Lake Mendocino
- 9** Lake Tahoe

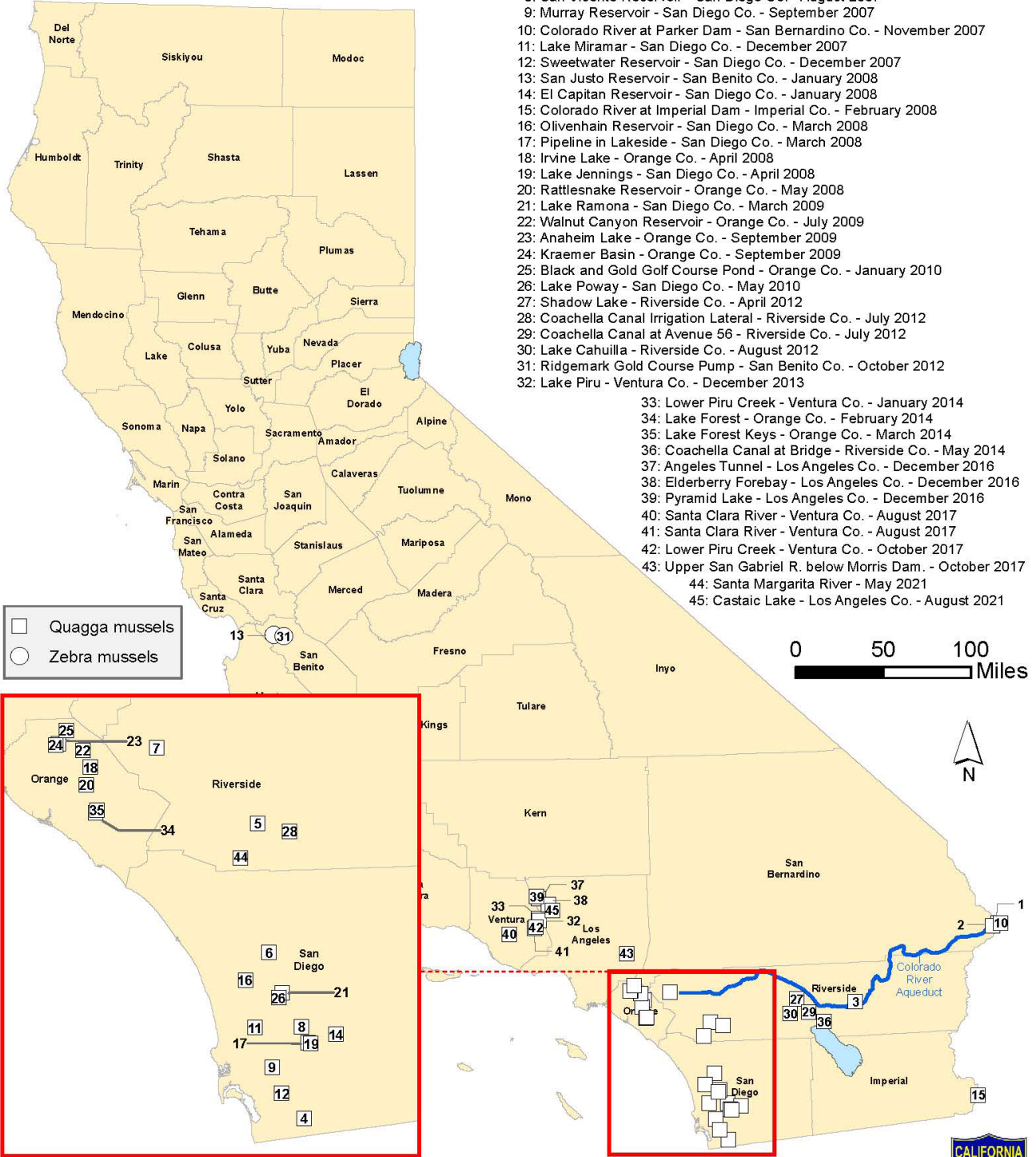


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Quagga and Zebra Mussel Sightings Distribution in California, 2007 - 2021

LOCATIONS

- 1: Lake Havasu - San Bernardino Co. - January 2007
- 2: Copper Basin Reservoir - San Bernardino Co. - March 2007
- 3: Colorado River Aqueduct - Riverside Co. - July 2007
- 4: Lower Otay Lake - San Diego Co. - August 2007
- 5: Skinner Reservoir - Riverside Co. - August 2007
- 6: Dixon Reservoir - San Diego Co. - August 2007
- 7: Lake Mathews - Riverside Co. - August 2007
- 8: San Vicente Reservoir - San Diego Co. - August 2007
- 9: Murray Reservoir - San Diego Co. - September 2007
- 10: Colorado River at Parker Dam - San Bernardino Co. - November 2007
- 11: Lake Miramar - 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: Colorado River at Imperial Dam - Imperial Co. - February 2008
- 16: Olivenhain Reservoir - San Diego Co. - March 2008
- 17: Pipeline in Lakeside - San Diego Co. - March 2008
- 18: Irvine Lake - Orange Co. - April 2008
- 19: Lake Jennings - San Diego Co. - April 2008
- 20: Rattlesnake Reservoir - Orange Co. - May 2008
- 21: Lake Ramona - San Diego Co. - March 2009
- 22: Walnut Canyon Reservoir - Orange Co. - July 2009
- 23: Anaheim Lake - Orange Co. - September 2009
- 24: Kraemer Basin - Orange Co. - September 2009
- 25: Black and Gold Golf Course Pond - Orange Co. - January 2010
- 26: Lake Poway - San Diego Co. - May 2010
- 27: Shadow Lake - Riverside Co. - April 2012
- 28: Coachella Canal Irrigation Lateral - Riverside Co. - July 2012
- 29: Coachella Canal at Avenue 56 - Riverside Co. - July 2012
- 30: Lake Cahuilla - Riverside Co. - August 2012
- 31: Ridgemark Gold Course Pump - San Benito Co. - October 2012
- 32: Lake Piru - Ventura Co. - December 2013
- 33: Lower Piru Creek - Ventura Co. - January 2014
- 34: Lake Forest - Orange Co. - February 2014
- 35: Lake Forest Keys - Orange Co. - March 2014
- 36: Coachella Canal at Bridge - Riverside Co. - May 2014
- 37: Angeles Tunnel - Los Angeles Co. - December 2016
- 38: Elderberry Forebay - Los Angeles Co. - December 2016
- 39: Pyramid Lake - Los Angeles Co. - December 2016
- 40: Santa Clara River - Ventura Co. - August 2017
- 41: Santa Clara River - Ventura Co. - August 2017
- 42: Lower Piru Creek - Ventura Co. - October 2017
- 43: Upper San Gabriel R. below Morris Dam. - October 2017
- 44: Santa Margarita River - May 2021
- 45: Castaic Lake - Los Angeles Co. - August 2021



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, August 20, 2021.

