Quagga/Zebra Mussel Program Update

October 2010 - Present

Martha Volkoff
May 15, 2013
CDFW Organization

- **Headquarters** – Policy and CDFW coordination
- **Regions** – Implementation and local coordination
CDFW’s Mussel Management Strategy

- Prevent further introductions into the State
- Contain mussels within currently infested waters
- Eradicate mussels from infested waters, if feasible
Mussel Strategy

Objectives

• Collaboration and Coordination
• Prevention
• Detection
• Control and Eradication
• Information Dissemination
Coordination and Collaboration

National Level

• National Invasive Species Council
• Invasive Species Advisory Committee
• Aquatic Nuisance Species Task Force
• Western Regional Panel on Aquatic Nuisance Species
Regional Level

- 100th Meridian Initiative
- Association of Western Water Agencies
- Western Association of Fish and Wildlife Agencies
- Western Invasive Species Coordination Effort (states)
- Western Regional Panel on Aquatic Nuisance Species
  - Outreach
  - Lacey Act
  - Attorney Generals/Law Enforcement Workshop
  - Laboratory certification
  - Consistency (bands, terminology)
State Level

- Quagga/Zebra Mussel Interagency Team
  - Formed Outreach Action Subcommittee
- County Concerns
- Legislation

Local Level

- CDFW Regional Scientists coordinate with and assist local agencies
Prevention

- No new infestations as a result of over-land transport
- 499 vessels quarantined at the Border Protection Stations
- Revised “Don’t Move a Mussel” Video
Prevention – Inspection Programs

- Revised UMPS
- WIT Level I and Level II
- Bay Area Consortium Funding Administration
- Inspection Programs

Photo by East Bay Municipal Utility District
Prevention

• New regulations (DBW)
• Research
  – Sport fishing SFRA study
  – Ballast technology
• CDFW Volunteers
• Vectors
## Prevention

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Prevention – Other’s Efforts

- UC Extension Water Agency Eurasian Mussel Action Program (WAEMAP)
Detection

- Early Detection Monitoring
  - Waterbodies
  - Hatcheries
- Database
- Bodega Marine Lab
  - Sample analysis
  - Refinement of plankton tow preservation method
Control and Eradication

- Control Plans - 23
- Infested Reservoir Report
- Facilitated Research
  - Marrone Bio Innovations
    - Zequanox
  - DWR/RNT Consulting, Inc.
    - pH Manipulation Study
- Bay-Delta Rapid Response Plan
Control and Eradication – Other’s Efforts

- Sea Grant/UCCE Control Information Sheets
  - Introduction
  - Manual and Mechanical
  - Oxygen Deprivation
  - Emerging Technologies
  - Chemical
  - Permits and Regulations
Information Dissemination

- Website
  - Mobile-user accessible
  - Inspection programs
- YouTube video
- Sportsmens Expos, boat shows
- Native American Tribes
Information Dissemination

- Revised poster and rack card
- Distributed outreach material
- News releases
- Newsletter
Current and Future Efforts

• Guidance for assessing vulnerability
• Regulations for Sections 2301 and 2302
• Targeted outreach for specific user groups
• Revise website
• Prevention Programs
CDFW Contact Information

Information Hotline
(866) 440-9530

Website
http://www.dfg.ca.gov/quaggamussel/