

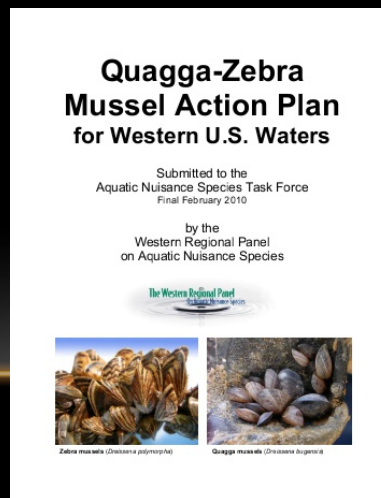
USFWS FUNDING FOR QUAGGA/ZEBRA MUSSEL ACTION PLAN IN THE WESTERN UNITED STATES

Barak Shemai, USFWS



FEDERAL FUNDING FOR QZAP

- Congressionally directed
- Approximately \$960,000 in awards per year
 - \$1,000 floor - \$600,000 ceiling
- Primary focus is to prevent mussels from spreading over land, via watercraft, from affected areas to areas currently mussel free.





FUNDING FOR FY2019

Request For Proposals/Notice of Funding Opportunity (RFP/NOFO) released In February 2019, focus on four key areas:

1. Limiting the spread of invasive mussels through containment, especially by inspection and decontamination of watercraft moving from invaded water bodies to jurisdictions currently free of dreissenid mussels
2. Limiting the spread of invasive mussels through containment by increasing compliance with state and tribal laws
3. Increasing the effectiveness of outreach and education efforts
4. Conducting Research consistent with the highest priorities of the 2015 Dreissenid Mussel Research Priorities Workshop



Quagga/Zebra Mussel Prevention in the West

PREVIOUS FUNDING

WESTERN QZAP ALLOCATIONS FOR FY2018

Utah Division of Wildlife Resources - \$225,338.00

- Lower Colorado River & Lake Powell quagga containment
- This would increase funding to an existing project
- Includes inspection and decontamination of boats moving through Utah



Invasive Species Action Network \$103,400.00

- Non-motorized boater outreach through industry partnerships, advertising, and agency coordination



WESTERN QZAP ALLOCATIONS FOR FY2018

Nevada Department of Wildlife - \$222,633.00

- This is a continuation of an existing project that would not only continue to provide free decontamination and inspection at Lake Mead NRA, but also adds some funds for outreach for Las Vegas area Watercraft Dealers.



University of Montana, Flathead Lake Biological Research Station - \$121,100.00

- This project builds upon the development of a near real-time molecular detection techniques (eDNA)
- Quantify the lowest natural abundance of invasive mussel observable using the DNA-Tracker to facilitate improvements in Early Detection.



**FLATHEAD LAKE
BIO STATION**
UNIVERSITY OF MONTANA

WESTERN QZAP ALLOCATIONS FOR FY2018

Pacific States Marine Fisheries Commission - \$77,499.00

- WIT Training Program
- Continuation of existing project, developing and providing state-of-the art inspection and decontamination training to those who need to implement.



Lake Havasu Marine Association- \$10,000.00

- Boater education along the lower Colorado River through industry outreach (SLIDE Anchors)



WESTERN QZAP ALLOCATIONS FOR FY10 – FY17

2010

Tahoe Regional Planning Agency – Watercraft inspection and decontamination implementation at Lake Tahoe
\$800K

University of Nevada - Las Vegas Develop effective decontamination protocols **218K**

U.S. Bureau of Reclamation - Pilot laboratory testing program for early detection **\$175K**

Pacific State Marine Fisheries Commission - Update and adopt the recommended UMPS **\$28K**

Colorado Division of [Parks and] Wildlife - Development of a manual for containment activities **\$40K**

Portland State University Early-detection monitoring **\$45K**

The University of Texas at Arlington Early-detection monitoring for mussels **\$55K**

Montana Fish, Wildlife and Parks Early-detection monitoring **\$29K**

WESTERN QZAP ALLOCATIONS FOR FY10 – FY17

2011

Following a Continuing Resolution, the USFWS redirected the \$2 million (originally appropriated for quagga/zebra mussels) to other USFWS priorities.

2012

Lake Mead National Recreation Area– Watercraft inspection and decontamination implementation **\$455K**

Glen Canyon National Recreation Area – Boat ramp monitoring at Lake Powell **100K**

States of NV, AZ, UT, CA, OR and WA – law enforcement related to Q/Z mussels **\$180K**

Pacific State Marine Fisheries Commission (PSMFC) - WIT Training at Lake Mead and Havasu **\$60K**

States of AZ and NV - increased outreach and education **\$60K**

New Mexico DGF - monitoring boat ramps at Lake Navajo **\$100K**

The University of Texas at Arlington - online information sharing system **\$11K**

WESTERN QZAP ALLOCATIONS FOR FY10 – FY17

2013

NDOW - Containment at Lake Mead \$391K

AZGFD - Decontamination station (Havasu) 260K

NPS – Lake Mead Supplement Nevada Department of Wildlife's decontamination program \$29K

Pacific State Marine Fisheries Commission (PSMFC) - WIT Training at Lake Mead and Havasu \$68K

Lake Havasu Marine Association - Outreach/Containment \$25K

NPS – Glen Canyon Outreach/Containment \$100K

SUNY – Albany Research: Field test for living mussels \$28K

WESTERN QZAP ALLOCATIONS FOR FY10 – FY17

2014

NDOW - Decontamination and Outreach at Lake Mead NRA \$122K

AZGFD - Mobile Decontamination Unit and Staff 80K

UTDWR - Inspection and Containment program for Colorado River (Lake Powell) \$400K

Pacific State Marine Fisheries Commission (PSMFC) - WIT Training \$74K

Lake Havasu Marine Association - Outreach/Containment \$100K

CPW - Development of Regional AIS Data Sharing System \$154K

WESTERN QZAP ALLOCATIONS FOR FY10 – FY17

2015

NDOW - Decontamination and Outreach at Lake Mead NRA \$191K

AZGFD - Mobile Decontamination Unit and Staff \$60K

UTDWR - Inspection and Containment program for Colorado River (Lake Powell) \$171K

PSMFC – WID Training \$180K

ISAN - Non-motorized boater education \$34K

ABYC Boat Design and Construction \$107K

Univ of AZ Re-establish Colorado River Team \$78K

Working Dogs for Conservation - Northeast Texas Detection & Outreach Project \$53K

Western Biological Services - outreach materials for free to partner agencies \$66K

WESTERN QZAP ALLOCATIONS FOR FY10 – FY17

2016

NDOW - Decontamination and Outreach at Lake Mead NRA \$185K

AZGFD - Mobile Decontamination Unit and Staff \$75K

UTDWR - Inspection and Containment program for Colorado River (Lake Powell) \$124K

United Water Conservation District - Lake Piru Containment \$130K

ISAN - Non-motorized boater education \$35K

CPW Development of Regional AIS Data Sharing System - \$118K

Lake County California - Outreach and Education in CA 137K

Working Dogs for Conservation - Northeast Texas Detection & Outreach Project \$70K

Western Biological Services - outreach materials for free to partner agencies \$66K

WESTERN QZAP ALLOCATIONS FOR FY10 – FY17

2017

NDOW - Decontamination and Outreach at Lake Mead NRA **\$260K**

PSMFC Watercraft Inspection and Decontamination Training and Outreach video **\$118K**

UTDWR - Inspection and Containment program for Colorado River (Lake Powell) **\$200K**

LHMA - Outreach and Education **\$67K**

Univ of MT Flathead Lake Biological Station - Real Time eDNA Machine Development **\$128K**

CPW Development of Regional AIS Data Sharing System - **\$153K**



QUESTIONS?

Contact:

Barak Shemai

Barak_Shemai@fws.gov