

James Littley
Okanagan Basin Water Board



Armstrona Spallumcheen Okanagan Indian Band Coldstream Vernon • Lake Country Kelowna West Kelowna Westbank Peachland Summerland Penticton Penticton Indian Band Okanagan Falls Oliver Indian Band

Actions to Prevent Invasive Mussels

- The Okanagan Basin Water Board's mission is to provide leadership to protect and enhance quality of life in the Okanagan Basin through sustainable water management.
- Define water problems and priorities, economic feasibility of solutions, responsibility, necessary legislation and required action.



ZEBRA MUSSELS

ALTER THEIR HABITAT BY REMOVING ALGAE



SUNLIGHT PENETRATES DEEPER

WATER CLARITY DRAMATICALLY INCREASES

AQUATIC PLANTS MOVE TO DEEPER WATER

THE COLDER BOTTOM LAYER OF WATER DROPS



THE WARMER
TOP LAYER OF
WATER GROWS
DEEPER





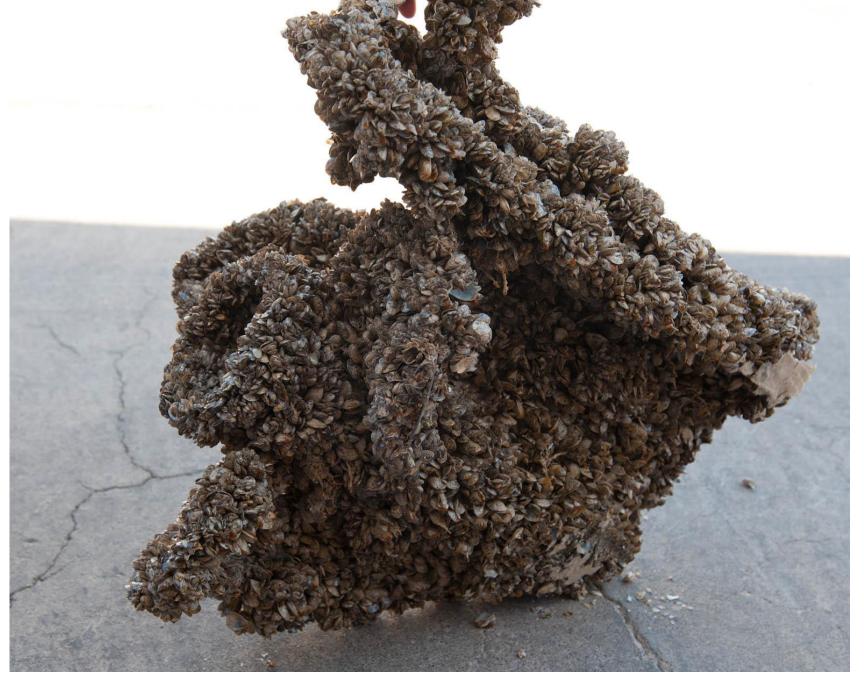


Photo Credit Chris Roxburgh.
 Car in 20 feet of water in Great
 Lakes, covered in quagga
 mussels









 $https://www.google.com/url?sa=i\&url=https\%3A\%2F\%2Fwww.usbr.gov\%2Fmussels\%2F\&psig=AOvVaw25j3aJrCsbMGuPoU3aD5gr\&ust=1706467267785000\&source=images\&cd=vfe\&opi=89978449\&ved=0CBMQjRxqGAoTClighI2c_oMDFQAAAAAAAAAABCgAQ$







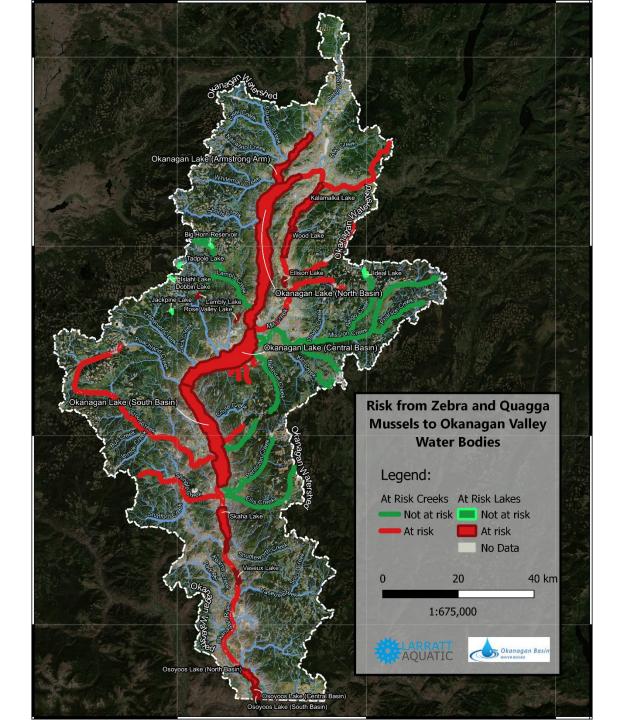




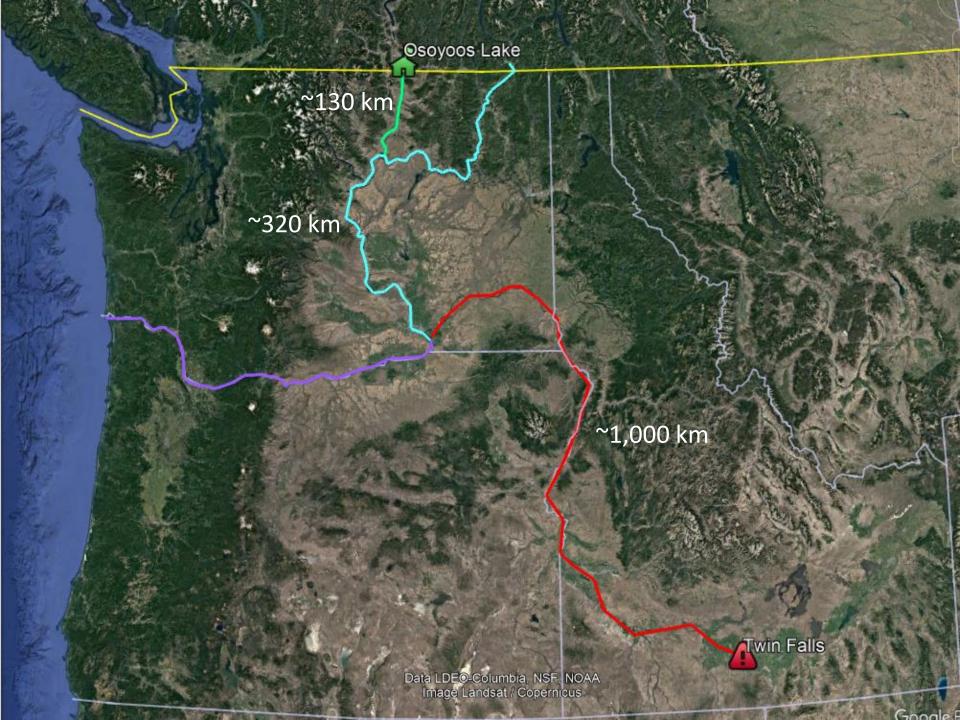
Economic Losses

- \$64 million to \$129 Million per year
 - Up to \$92.5 million for infrastructure
 - Up to \$8.1 million for extra maintenance on boats and marinas
 - Up to \$12.6 million in lost profits and revenue from tourism
 - \$30.2 million annualized loss in property value and lost property taxes.
 - Does not include the ecosystem effects or loss of fish











Idaho Rapid Response

Chelated Copper

- killed mussels (including native mussels)
- killed other invertebrates
- killed fish
- killed plants
- killed algae
- killed amphibians



116,351 L or 3.86 times the volume of this tanker trailer



Gaps in prevention B.C.

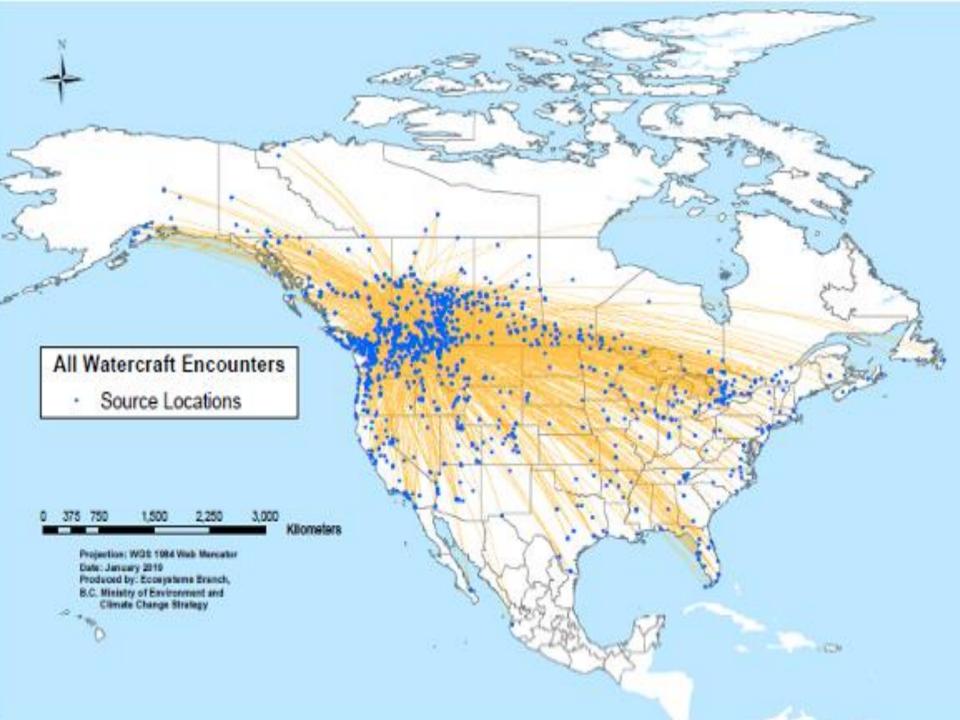
- Inspection required ONLY if driving past an open inspection station
- No requirement to remove drain plug from boat when out of water
- B.C. inspection budget, staffing shortage (\$3.3 million in 2023)
- B.C. relies on a "perimeter defence"
 no longer reliable
- No regional plans in place for when a detection occurs
- CBSA inspections not consistent at all crossings





Immediate Action

OBWB is calling for a temporary moratorium on out-of-province boats until the full status of the infestation of the Columbia Basin is assessed or until every boat coming into B.C. is required to be inspected.



Calls to Action - Province

Temporary out of province boat ban

Introduce pull-the-plug legislation

Commit \$4 million/year indexed to inflation for 10 years

Enhance funding and recruiting for inspections

Update Early Detection, Rapid Response Plan

Create and lead regional planning process

Promote vulnerability assessments

Calls to Action - Federal







IMMEDIATE DIRECTION TO BORDER AGENTS FROM SASKATCHEWAN WEST TO INSPECT ALL WATERCRAFT SUPPORT TEMPORARY BOAT BAN FROM THE PROVINCE COMMIT TO MATCHING
PROVINCIAL FUNDING FOR
INVASIVE MUSSEL
INSPECTION PROGRAMS
THROUGHOUT THE WEST.

Current Actions

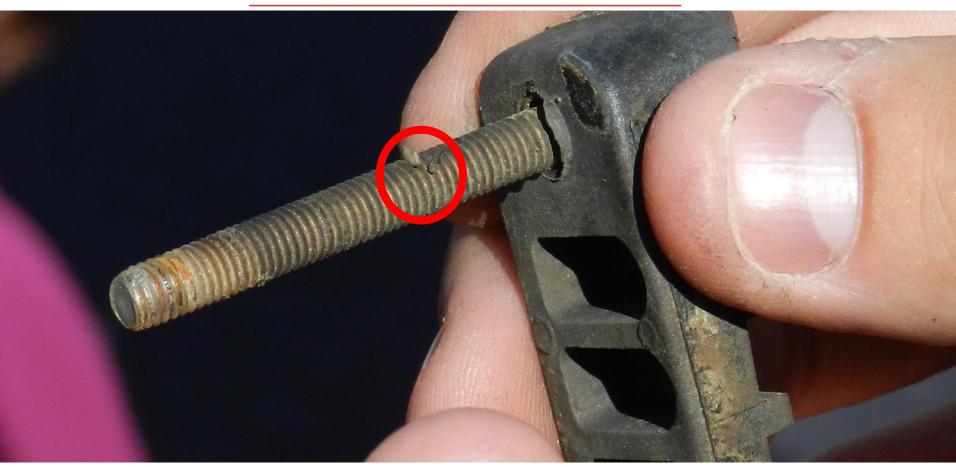
Calls for Action from senior government

Don't Move a Mussel

Infrastructure Vulnerability Assessment Guide

Working Group





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