

"TURNS OUT THEY CAN LIVE HERE!"

Alberta's Approach to AIS Prevention & Management

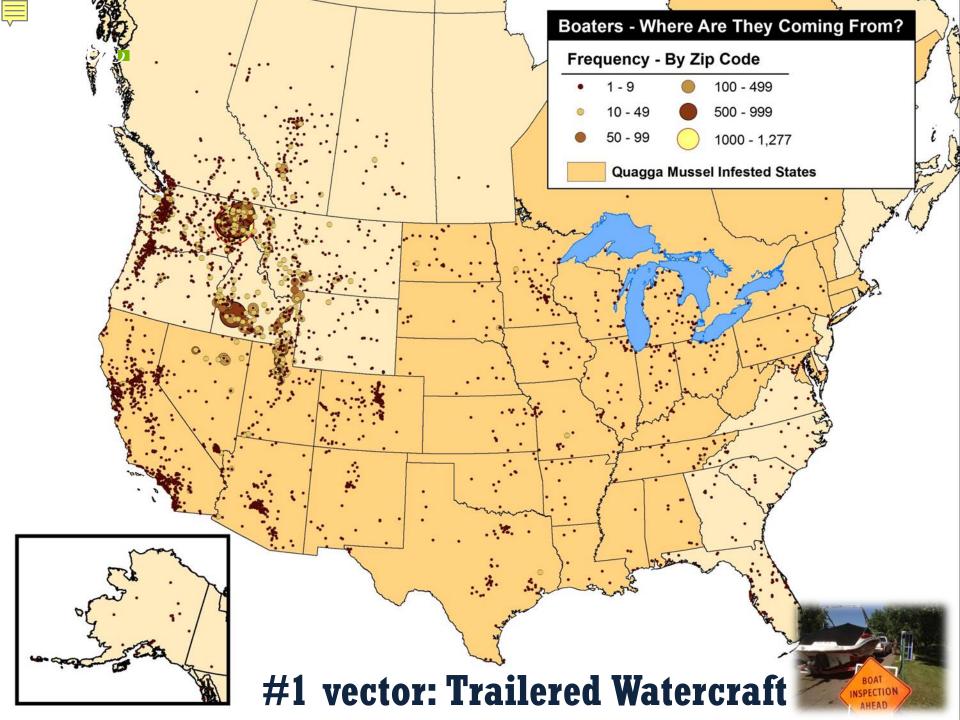
Kate Wilson
Aquatic Invasive Species Specialist
Alberta Environment & Parks
ICAIS, April 14, 2016



Dreissenids: Perfect Poster Child

- Irrigation infrastructure
- Costs to end user
- Proximity/movement
- Excellent for engaging partners, public









Estimated annual costs of an Alberta invasive mussel infestation



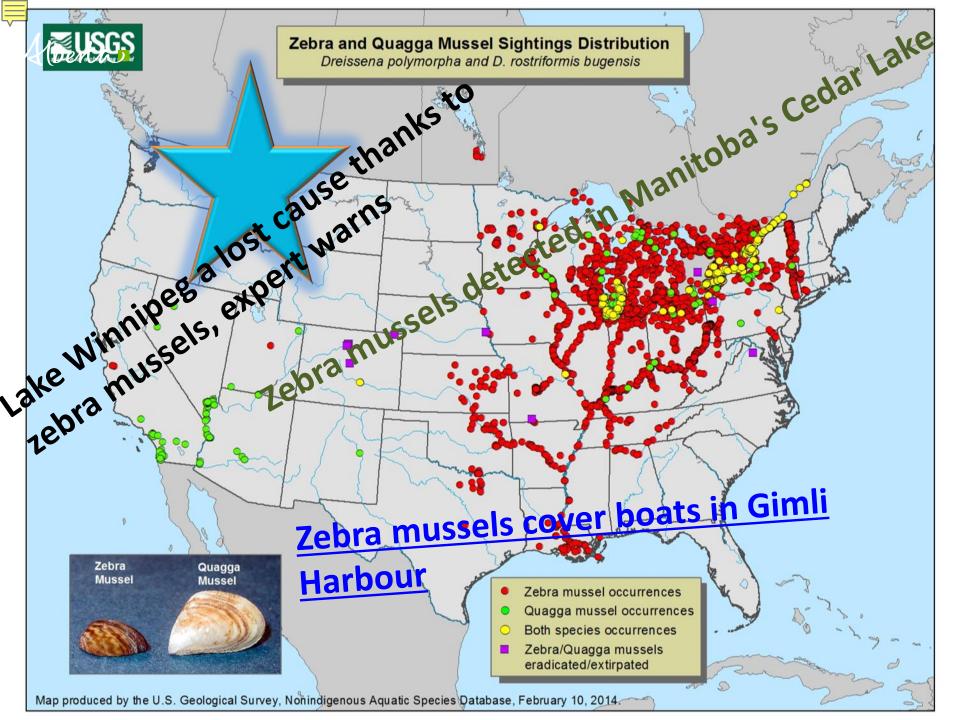
Impact category	Annual cost
Power generation	\$5,938,487
Drinking water systems	\$20,839,921
Boat maintenance	\$390,600
Recreational fishing	\$21,830,892
Water management structures	\$8,841,373
Water diversion intakes	\$3,910,000
Property value	\$13,789,500
Non-use	No quantified at this time
Total annual cost estimated	\$75,540,773



ACTUAL annual costs of an Ontario invasive mussel infestation

Impact category	Annual cost
Residential water	\$21 - \$27 million
Industrial water	\$1.5 - \$3 million
Golf courses	\$11,000 - \$16,000
Recreational fishing	\$2.3 – \$3.3 million
Commercial fishing & aquaculture	\$500,000 - \$700,000
Recreational boating	\$37 - \$51 million
Navigational boating	\$870,000 - \$1.2 million
Power generation	\$7 million – 8.3 million
Total annual cost estimated	\$75 - \$ 91 million













Alberta



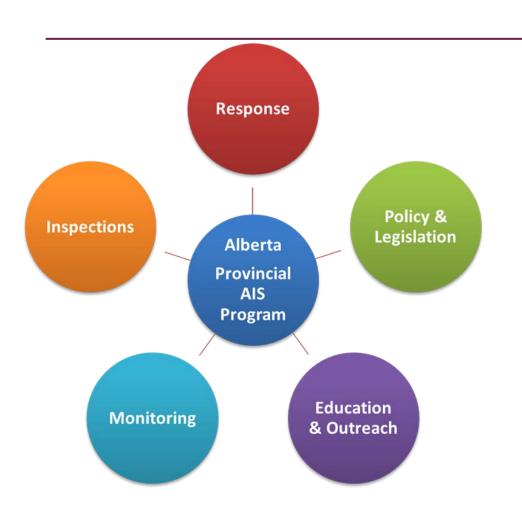








The Alberta Approach















2013: 55 waterbodies

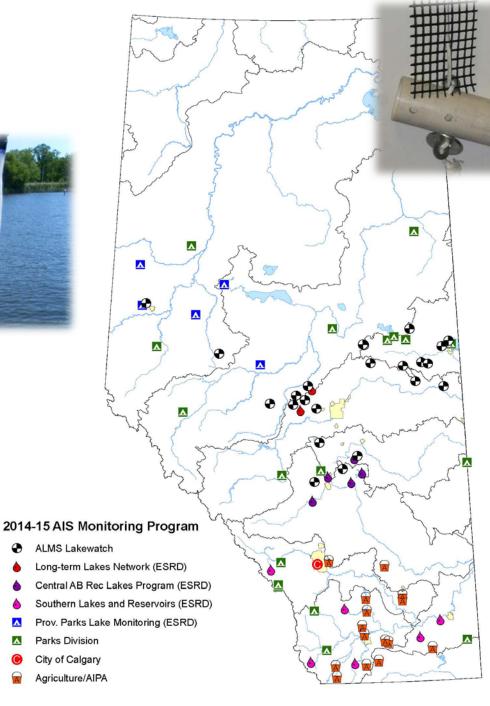
2014: 73 waterbodies;3 aq. plants

2015: 66 waterbodies;3 aq. plants

Future: MULTI-TAXA!?!

EDDMapS







NO WATER
NO MUD
NO MUSSELS
NO PLANTS





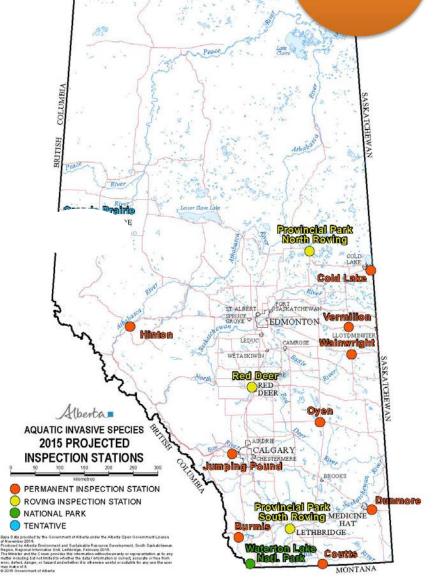




2015 Watercraft Inspection Stations

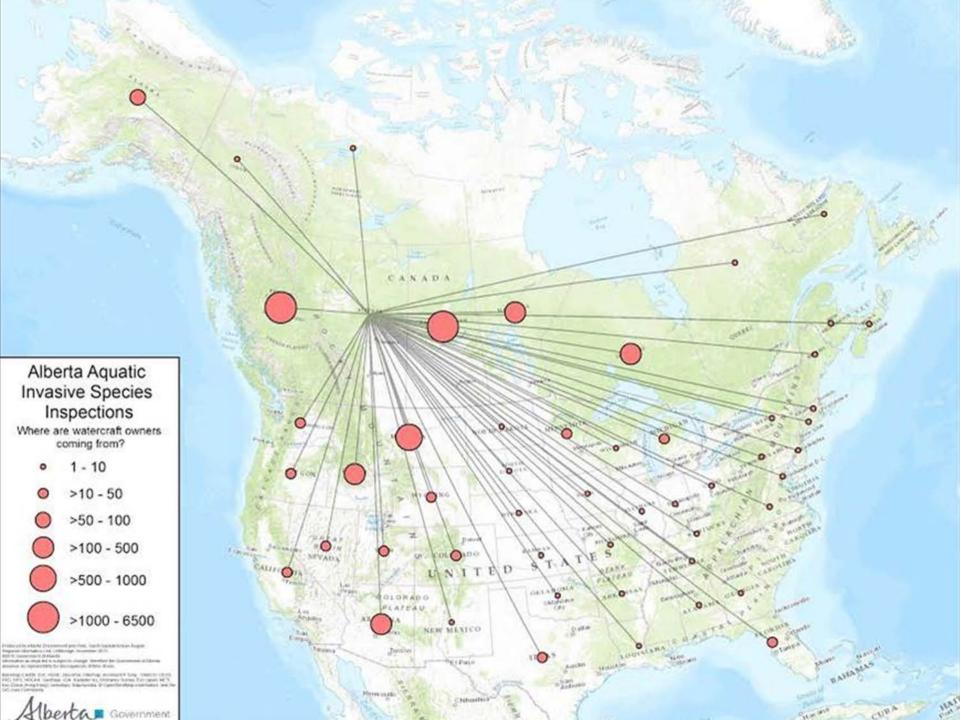
- 1. Coutts
- 2. Burmis
- 3. Dunmore
- 4. Wainwright
- 5. Oyen
- 6. Vermillion
- 7. Cold Lake
- 8. Hinton
- 9. Jumping Pound
- 10.Red Deer x 2
- 11. Parks north
- 12. Parks South

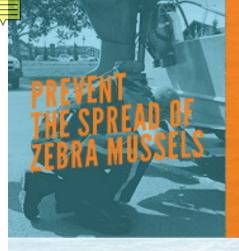




Inspections









WATERCRAFT INSPECTIONS ARE NOW MANDATORY

Expect to be inspected - watch for watercraft inspections province-wide.

All watercraft including non-motorized are required to stop.

1-855-336-BOAT (2628)



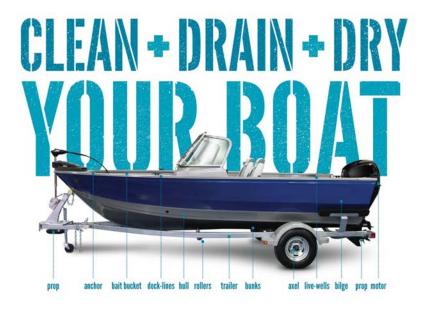


AIS TV ads





Education & Outreach



Props, boats and natural ecosystems can be ruined by zebra mussels and other aquatic invasive species. Take a few simple steps to preserve our lakes and fisheries: **CLEAN** off the plants and debris, **DRAIN** bilges and ballast, and **DRY** any wet areas of your boat.



ZEBRA MUSSELS



2.0 cm





2.5 cm





DON'T LET THEM CATCH A RIDE STOP AQUATIC HITCHHIKERS

TO REPORT INVASIVE SPECIES: 1-855-336-BOAT (2628) esrd.alberta.ca











Fisheries (Alberta) Act Amendments



- Creation of prohibited species list
 - Aquatic invasive plants, inverts and fish (52!)
 - Prohibition on possession, transportation, importation



- Mandatory stopping at designated inspection stations
 - Highways as defined by Traffic Safety Act
- Quarantine provisions and enhanced authority
 - Response activities
 - Pet/aquarium trade...
- Fishery Officers/Guardians/Inspectors
 - Creative solutions to enforcement
 - Limited authority to watercraft inspectors









Policy & Legislation

Policy & Legislation

2016 Fisheries Regulations (April 1)

 PULL THE PLUG! – all watercraft must be transported with drain plug out

- Mandatory reporting of AIS (in water)
- Possession licence

Federal Fisheries Act – AIS Regulations

- Prohibition on dreissenids, Asian carp
- Canadian Border Services Agency
- Response abilities enhanced
- No release of non-indigenous species











Alberta

Partnerships





Stop Aquatic Invasive Species

Clean, Drain, Dry Your Boat

Inspections are Mandatory Albertan









