Idaho Aquatics Update

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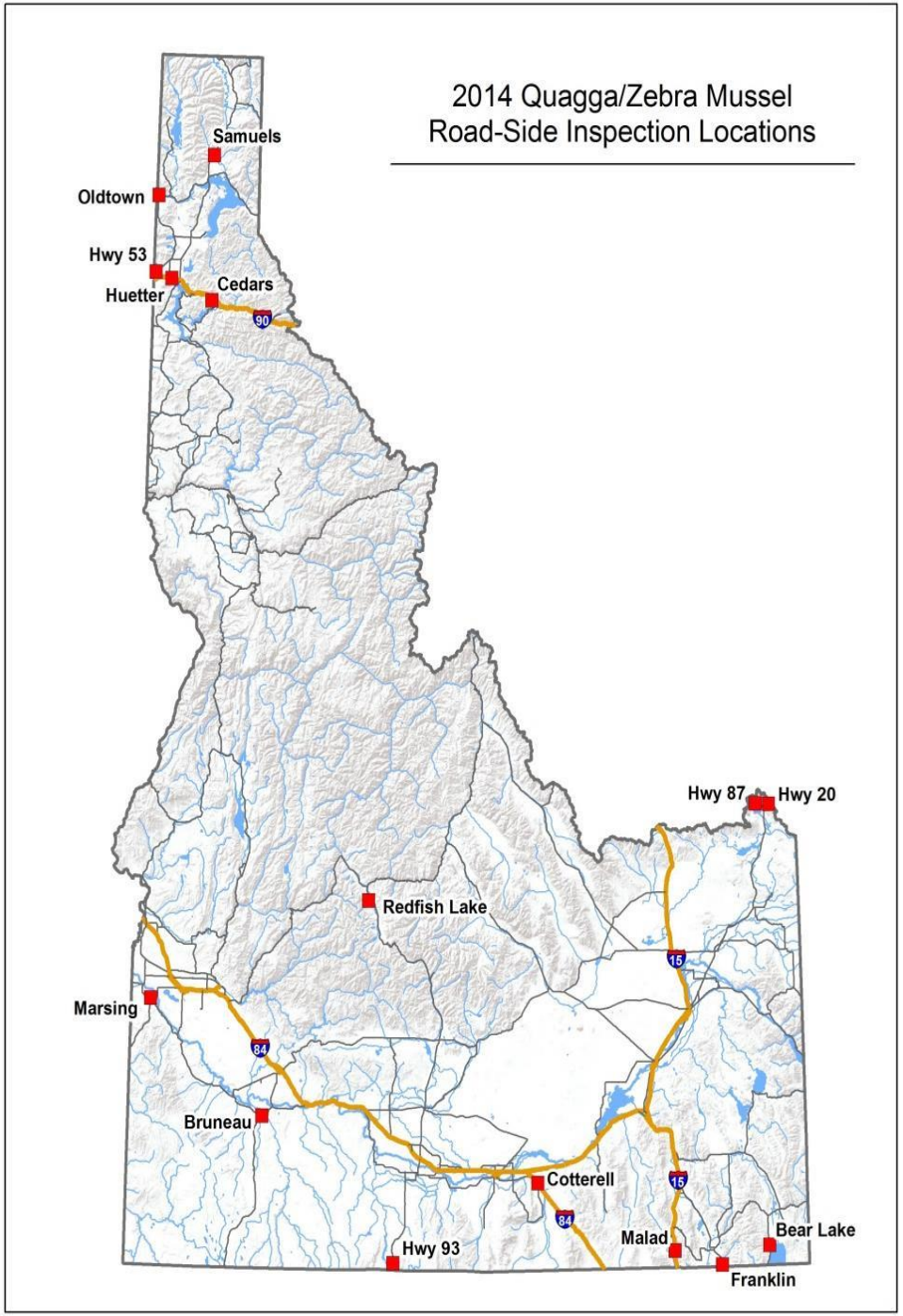
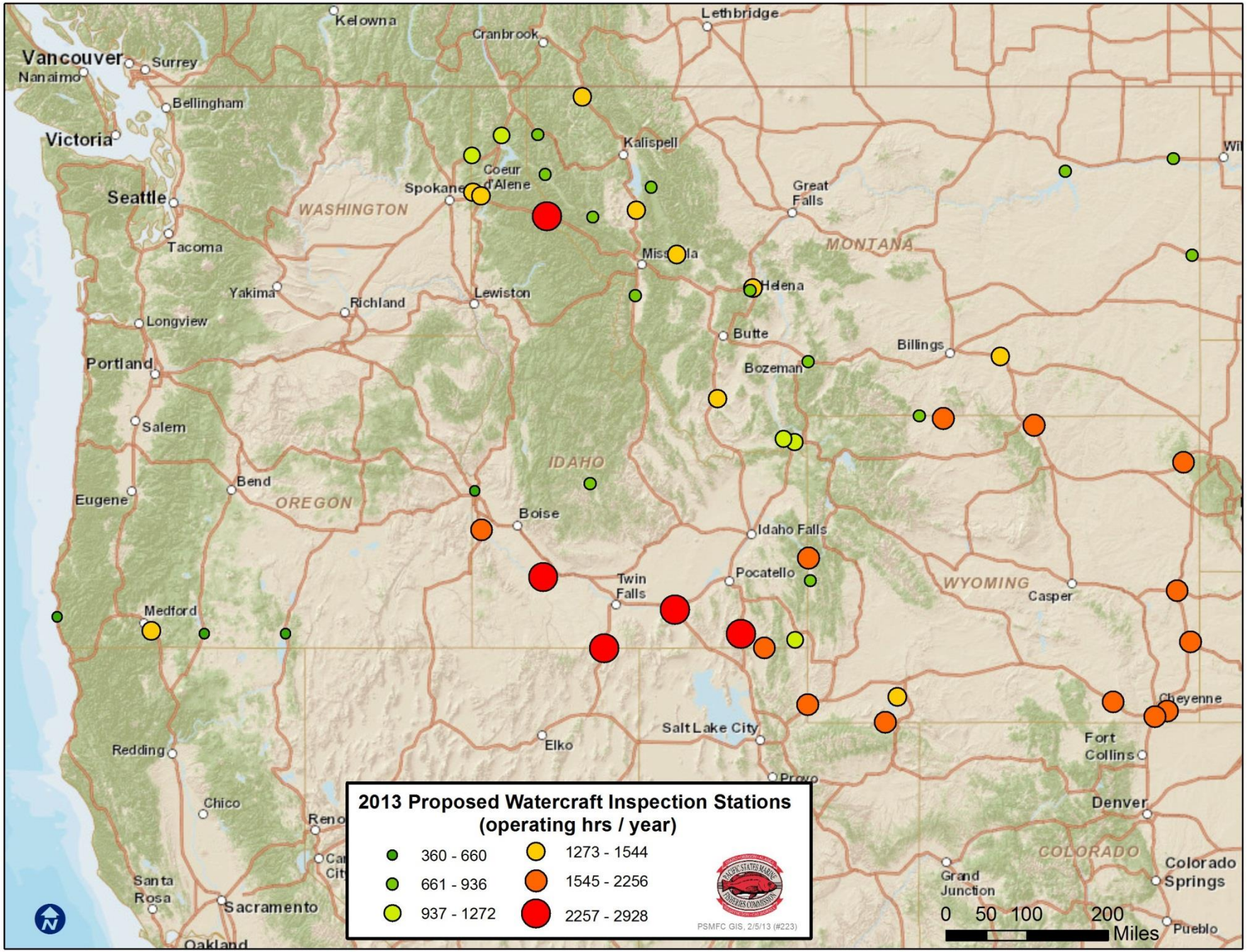
Idaho's Invasive Species Program

- Watercraft Inspection
- New Milfoil Issues
- Flowering Rush

Idaho Watercraft Inspection 2009 - 2014

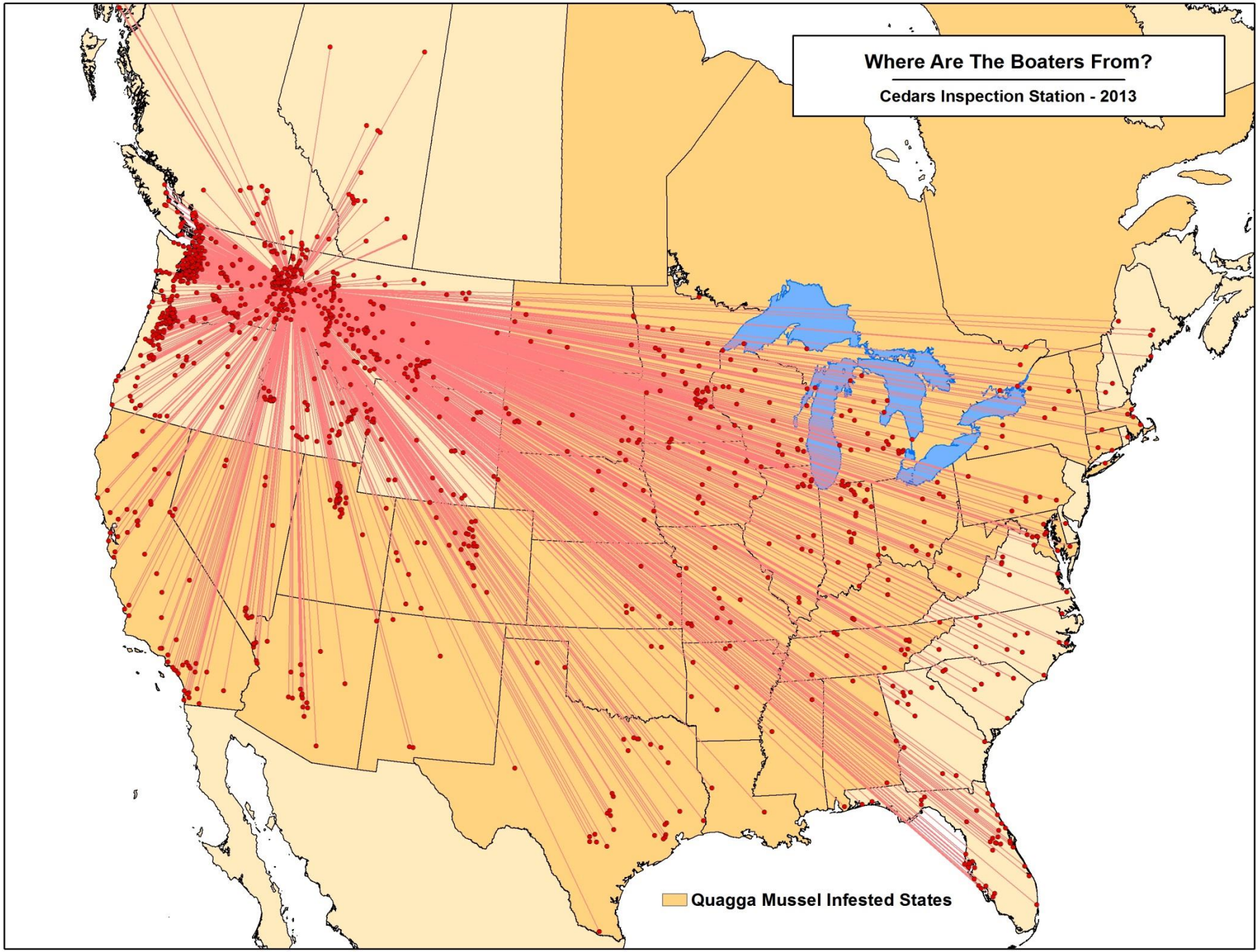
- 200,000+ Inspections
- 114 mussel fouled vessels
- 300+ with weeds
- 5-year report available online

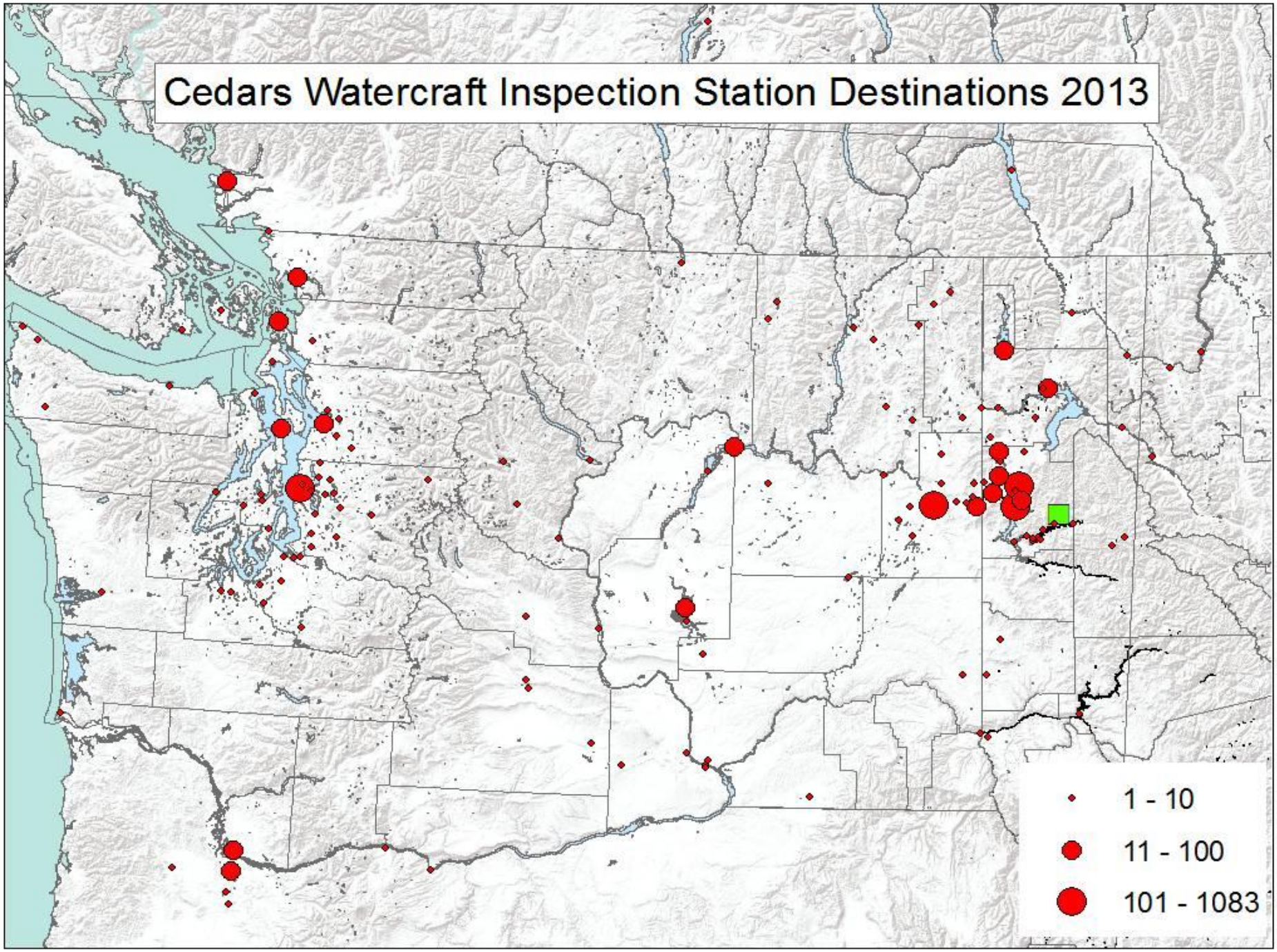


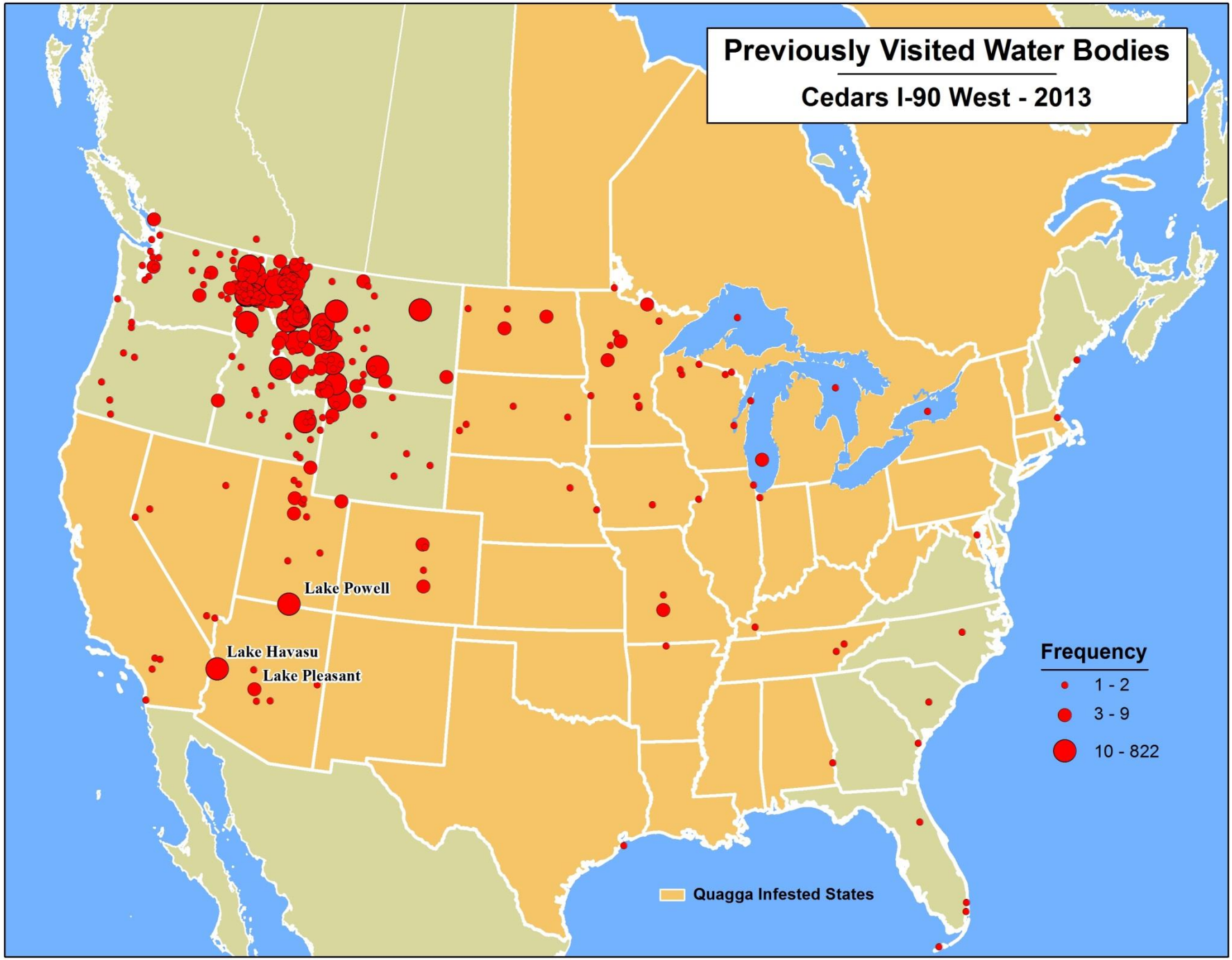


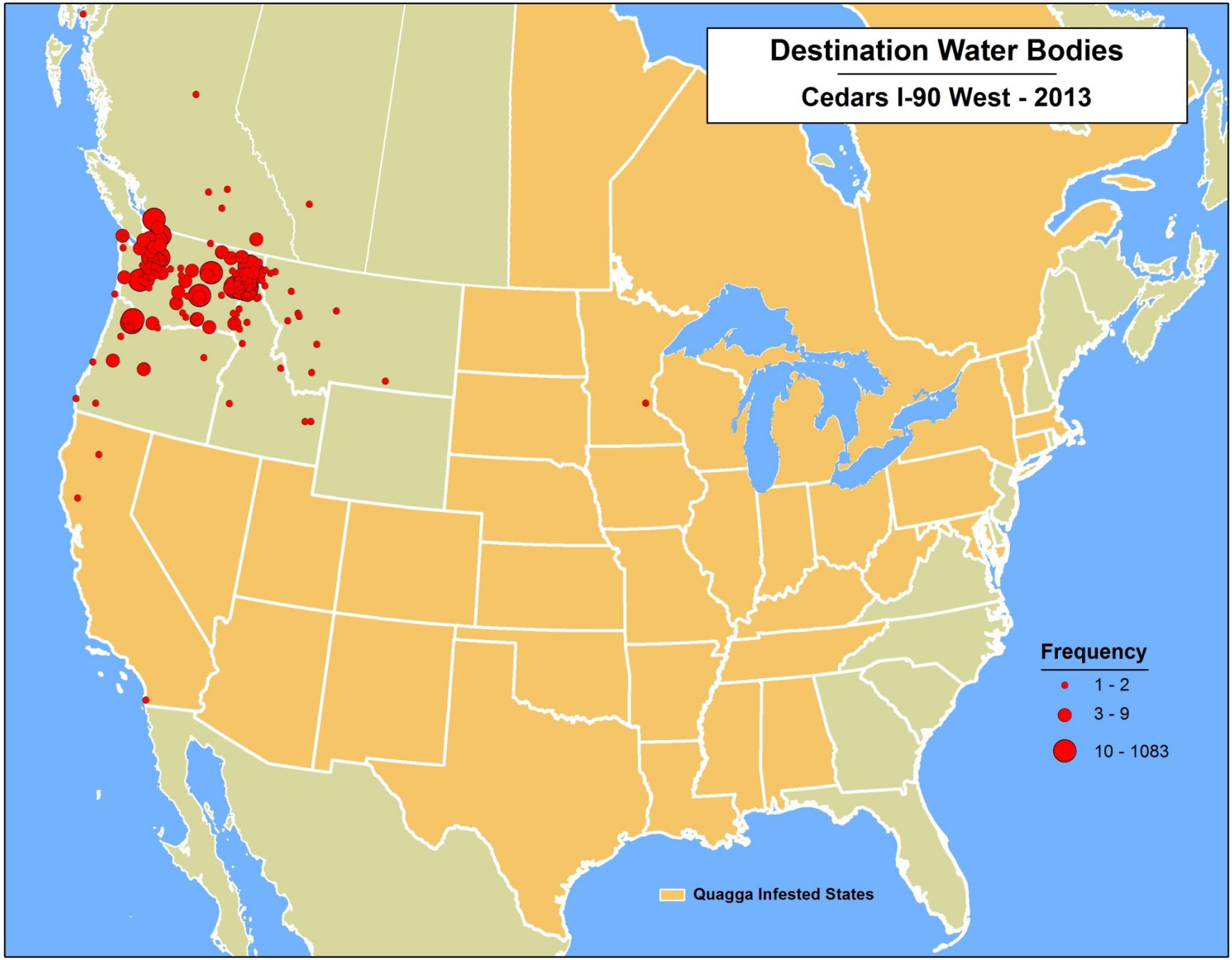
8760 hours in a year

For Aquatics, Invasive plant & animal pathways are the same.

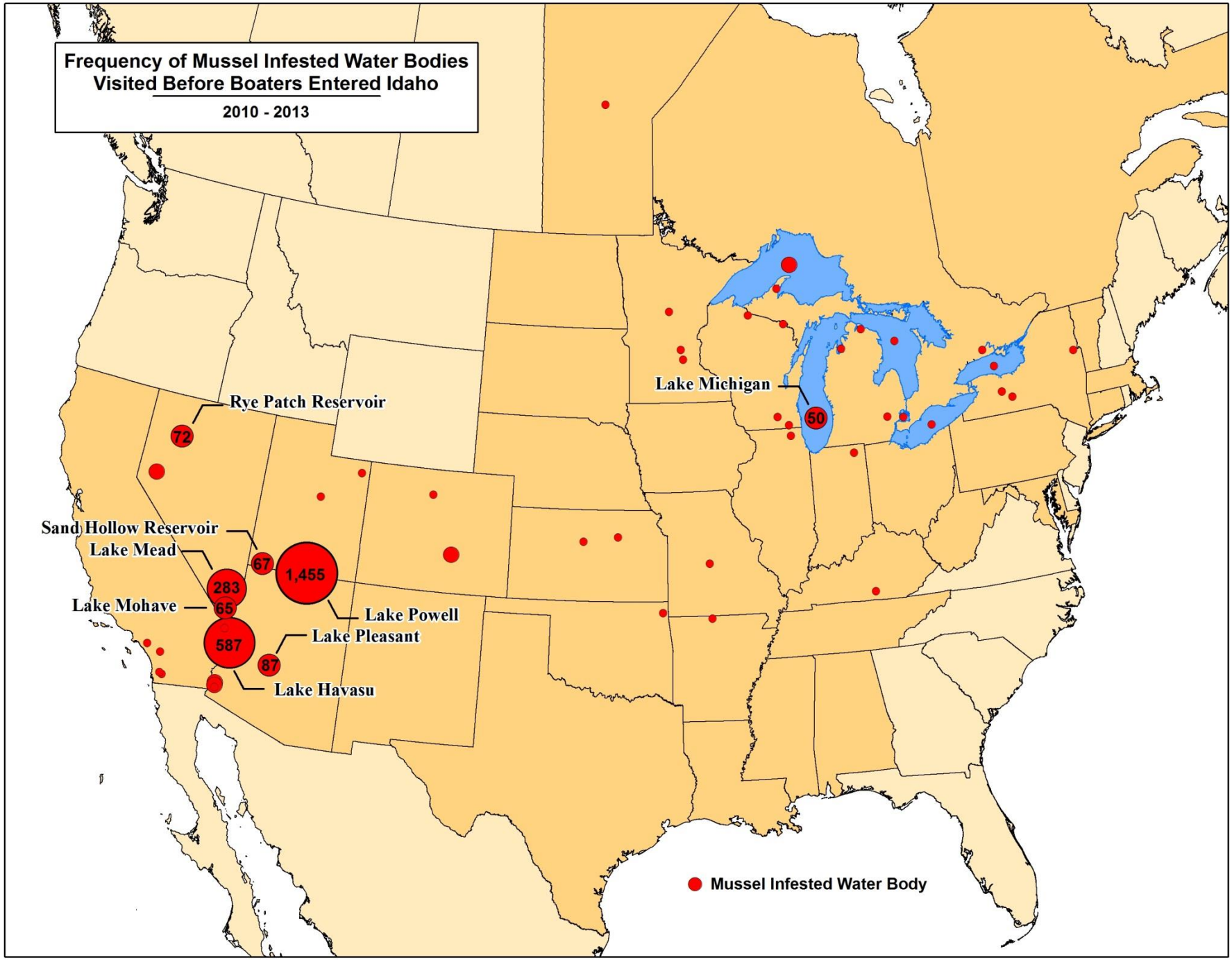

Where Are The Boaters From?
Cedars Inspection Station - 2013
Quagga Mussel Infested States


Cedars Watercraft Inspection Station Destinations 2013
1 - 10
11 - 100
101 - 1083


Previously Visited Water Bodies
Cedars I-90 West - 2013
Lake Powell
Lake Havasu
Lake Pleasant
Frequency
1 - 2
3 - 9
10 - 822
Quagga Infested States


Destination Water Bodies
Cedars I-90 West - 2013
Frequency
1 - 2
3 - 9
10 - 1083
Quagga Infested States

IN GOD WE TRUST
LIBERTY
1964
D

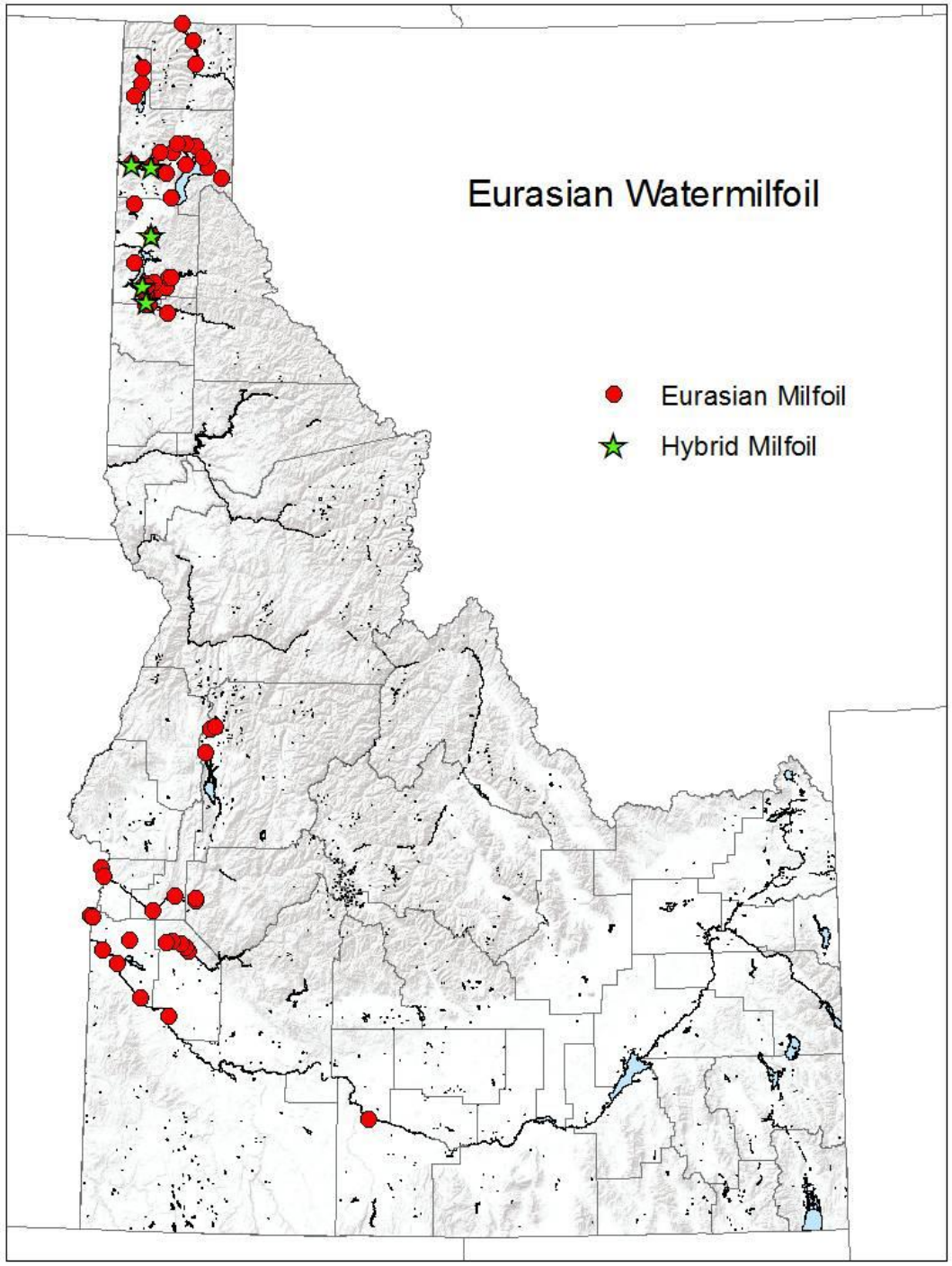

Frequency of Mussel Infested Water Bodies
Visited Before Boaters Entered Idaho
2010 - 2013
Rye Patch Reservoir
72
Lake Michigan
50
Sand Hollow Reservoir
67
Lake Mead
283
1,455
Lake Mohave
65
Lake Powell
Lake Pleasant
587
87
Lake Havasu
Mussel Infested Water Body

2014 Inspections

- 13,000+ Inspections so far this season
- 500+ high risk inspections
- 400 Hotwashes
- 9 mussel fouled vessels
  - First ever mussel fouled vessel from Lake Powell
  - 4 in intercepted in Northern Idaho.

CLEAN
DRAIN DRY
YOUR BOAT
SPEED
LIMIT
10
MPH

Eurasian Watermilfoil



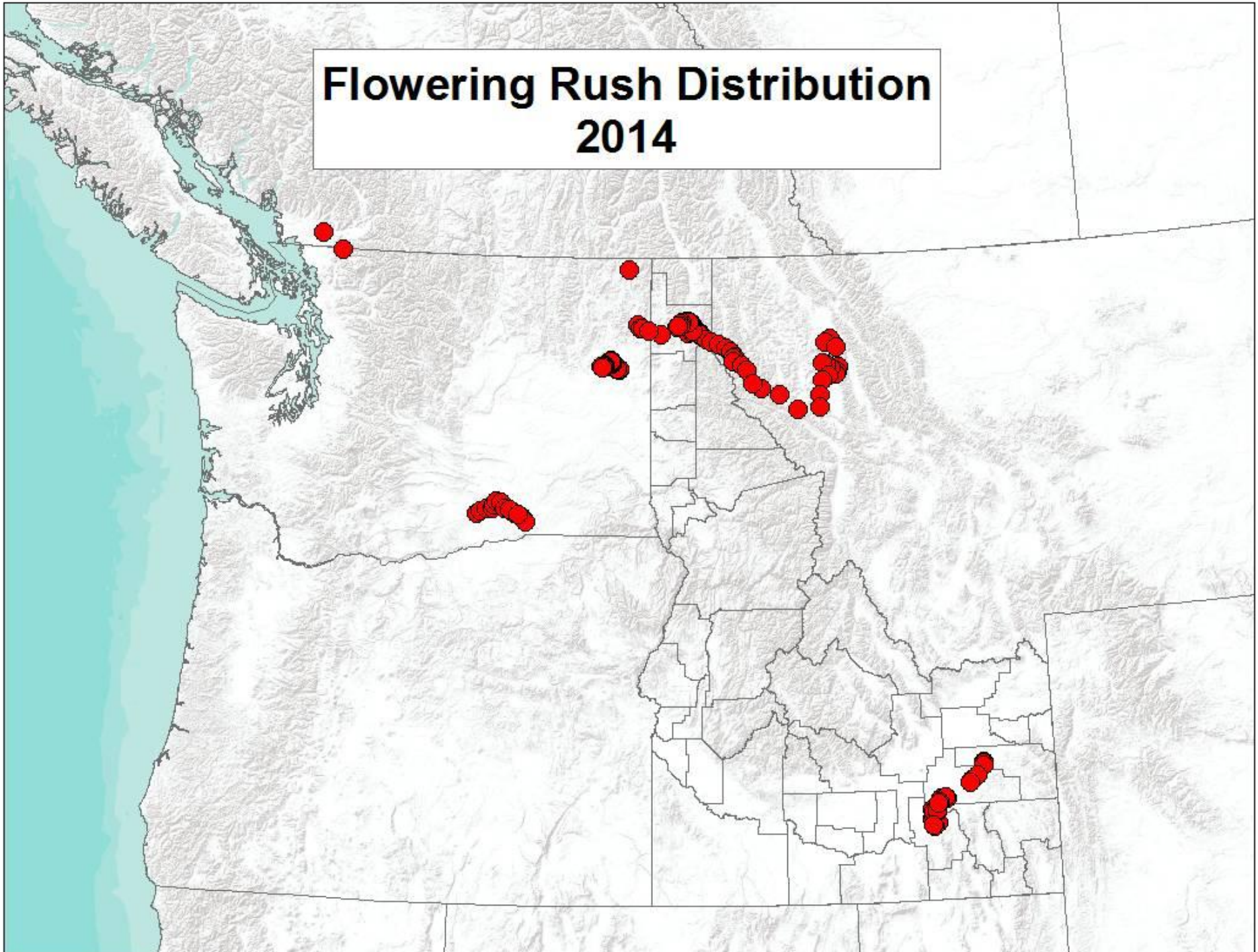
Hybrid Milfoil

- Hybrid between Eurasian and Northern milfoil
- Difficult to identify
- Difficult to kill
- Any doubt, grab a specimen
- Note, several species of milfoil are out there…

Milfoil Treatments 2013

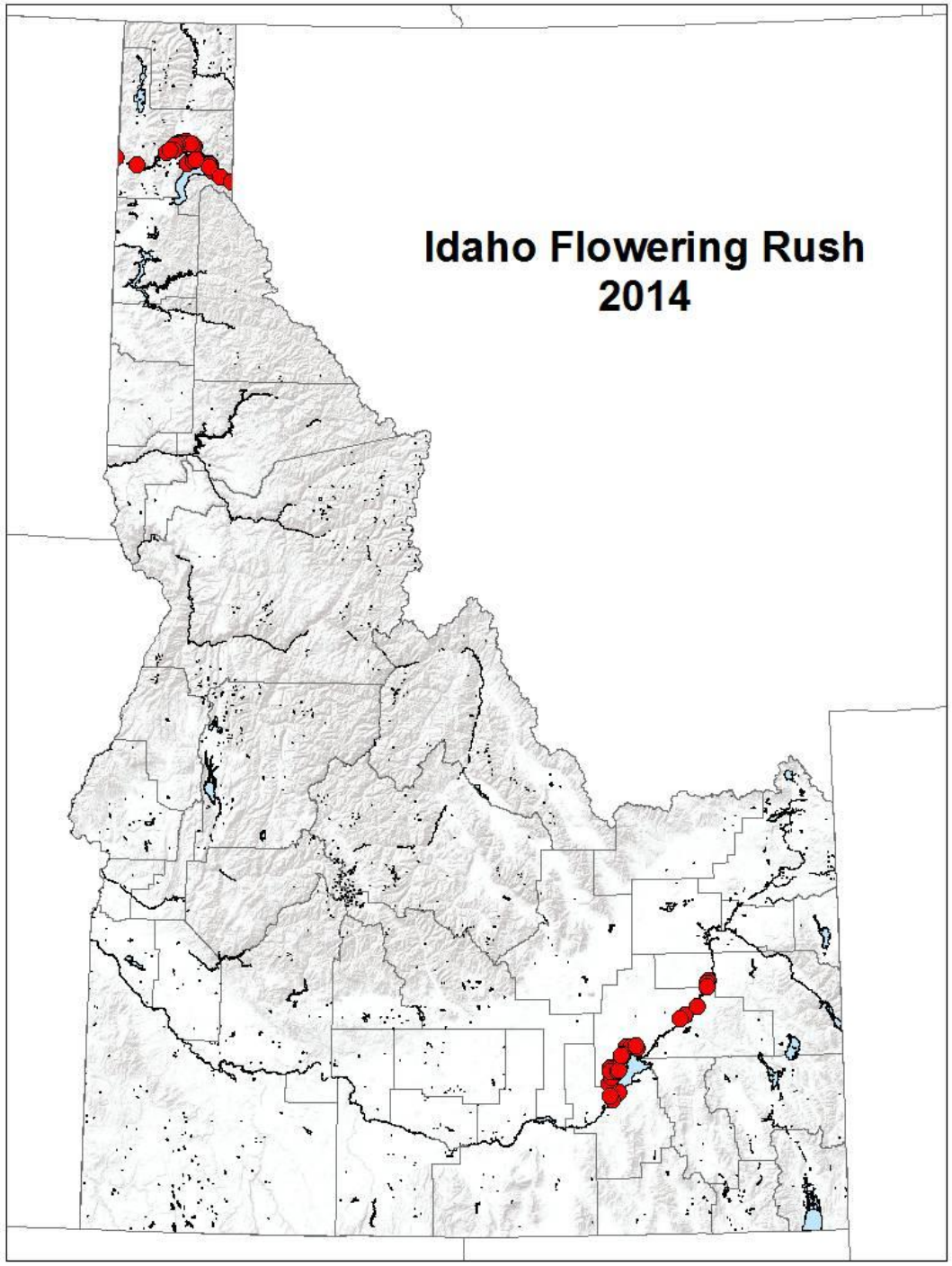
- 141 acres treated with herbicide:
  - 2,4-D
  - 2,4-D and Endothall mixes
  - Triclopyr
- Diver removal
  - In low density areas

Flowering Rush (*Butomus umbellatus)*


Flowering Rush Distribution
2014

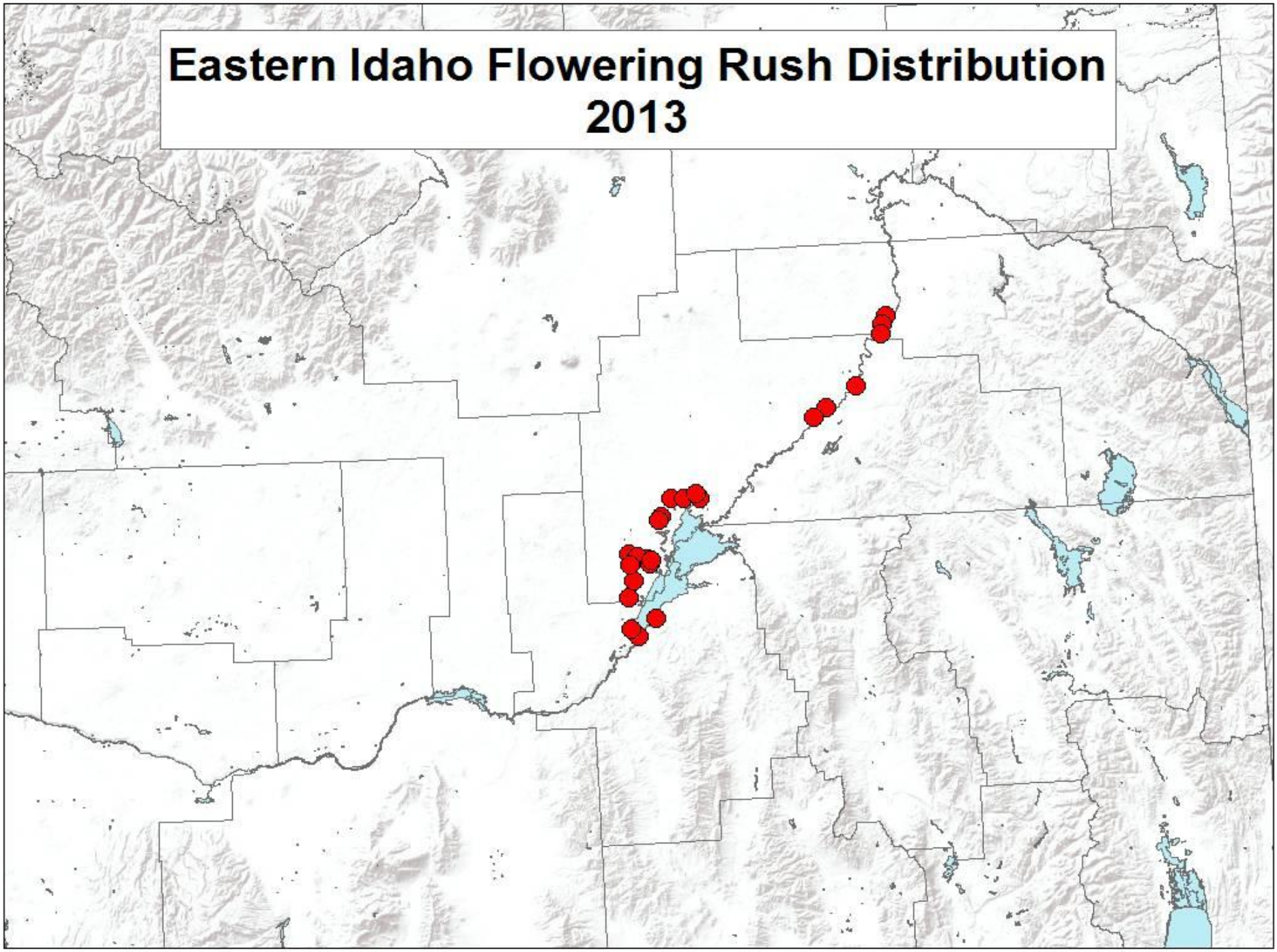
Idaho Flowering Rush Timeline

- First identified in Eastern Idaho in 1956
- First identified in Northern Idaho in 2007



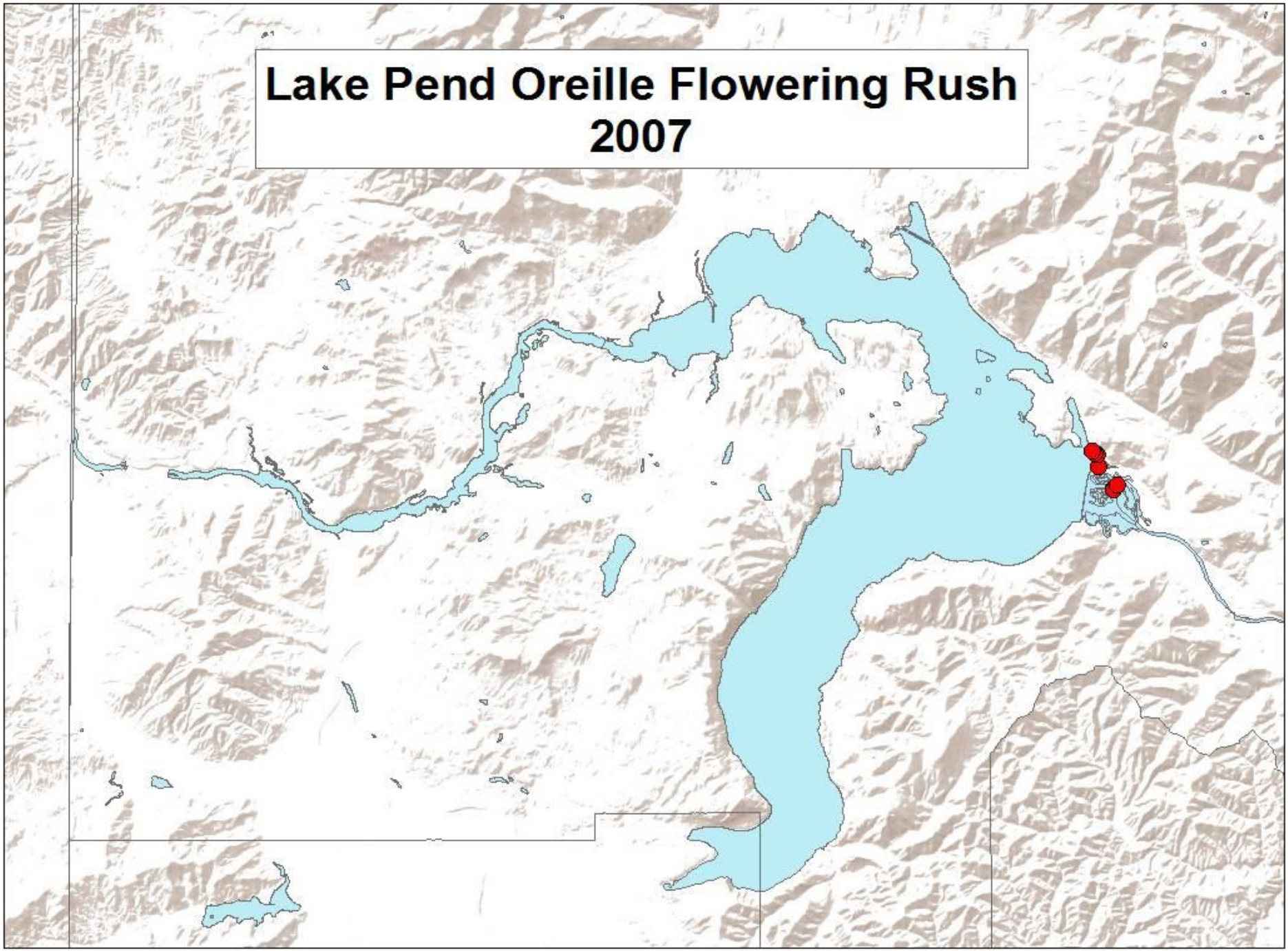
Flowering Rush: Eastern Idaho

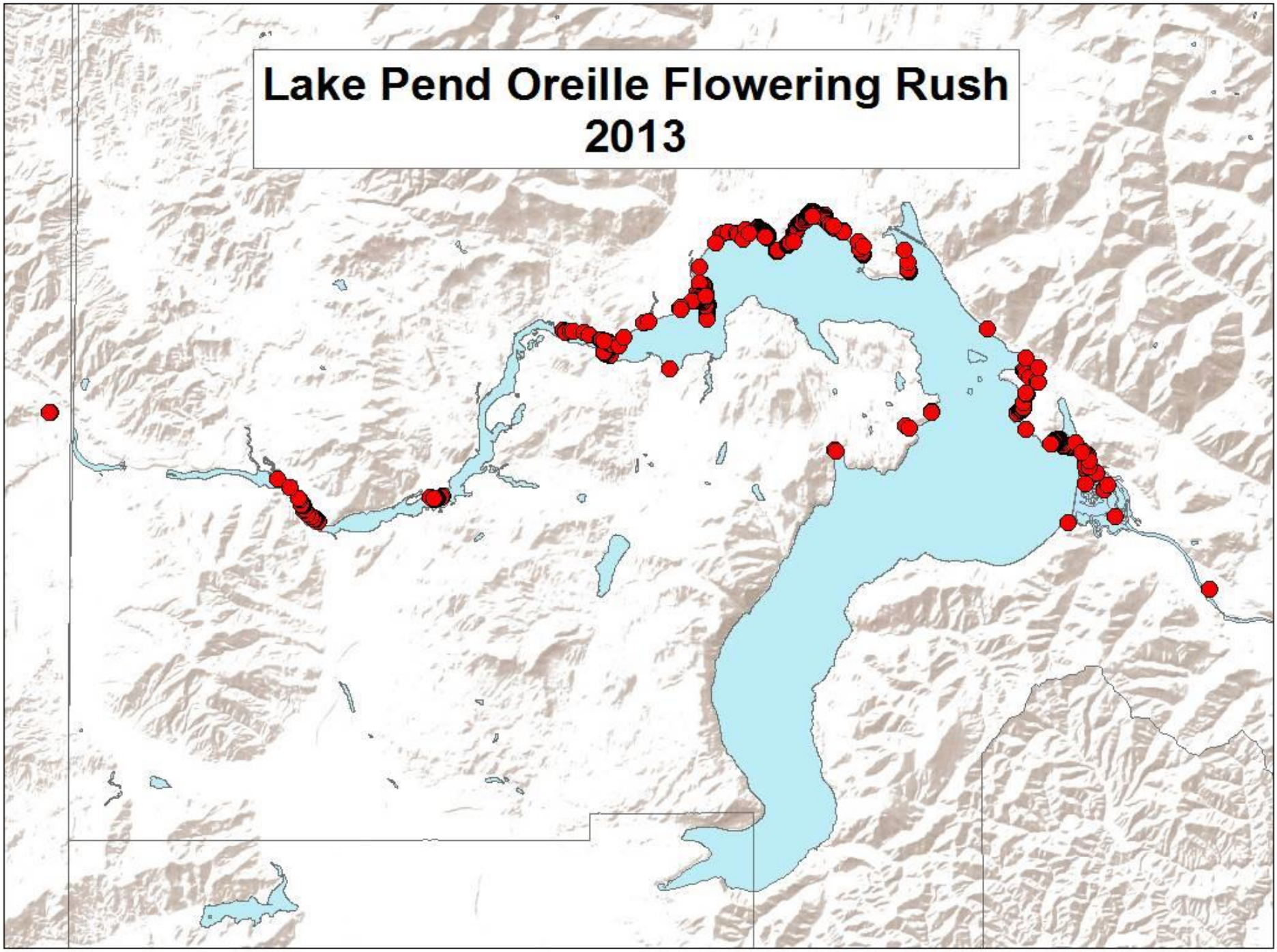
- Dense populations found in the Snake River and area Canal systems
- Most significant issue for area canal companies
- Not found downstream?


Eastern Idaho Flowering Rush Distribution
2013

CAT
AVR
315C L
CAT

Lake Pend Oreille

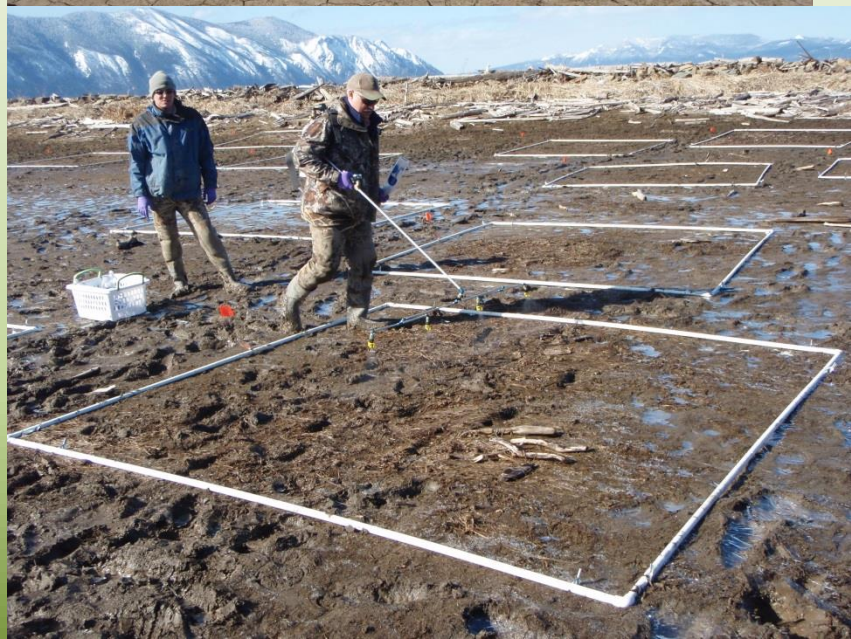

Lake Pend Oreille Flowering Rush
2007


Lake Pend Oreille Flowering Rush
2013

SLOW
NO
WAKE

Flowering Rush Treatment

- Treatments
  - In-water
  - Dry ground
- Herbicides
  - Fluridone, imazamox, imazapyr, triclopyr
- Mechanical
  - Digging
  - Hand removal
  - Benthic barriers



Hand Removal

Treatment Plot Results

- No significant reduction in percent cover on any of the dry-ground treatment plots

Sandpoint City Beach
Flowering Rush 2012
0
50
100
200 Meters
Flowering Rush

For 2014 / 2015: Treatment Trial Plots in Eastern Idaho

- Explore low-rate diquat treatments.
- Other herbicides
- Long-term eradication treatment plots
- Assistance from ARS

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