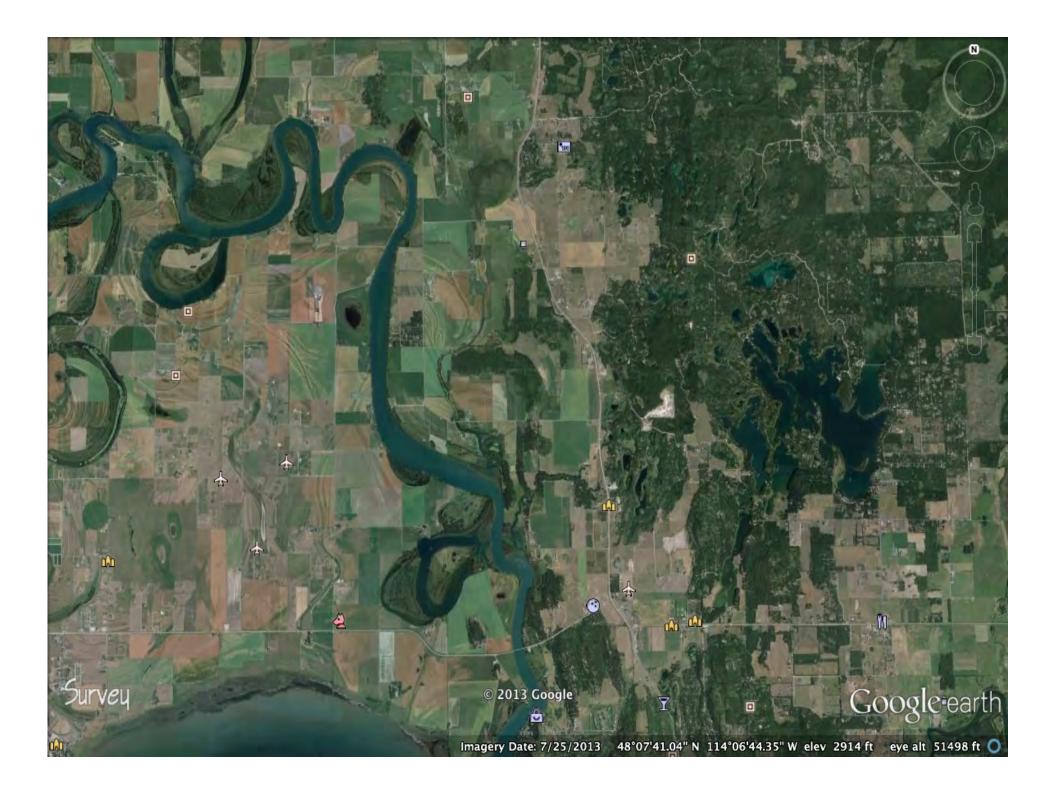
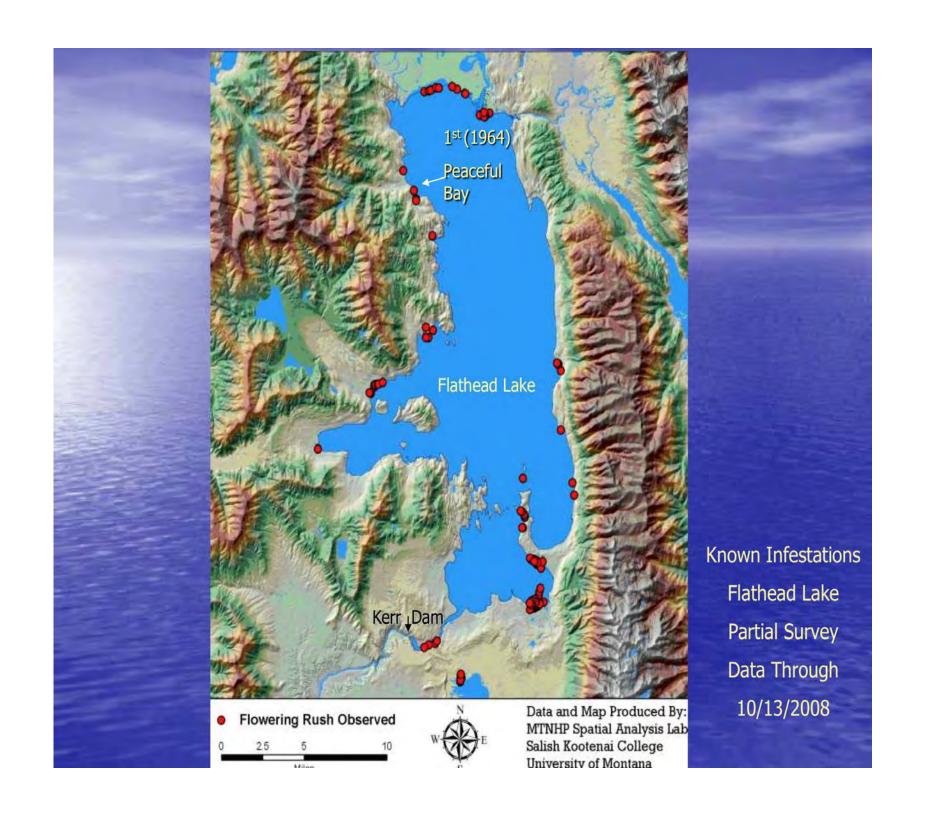
Status of Flowering Rush in Flathead & Lower Clark Fork Rivers

Virgil Dupuis; Salish Kootenai College, Alvin Mitchell; Salish Kootenai College, Peter Rice; University of Montana,



- Initiated inventories 2005
- Herbicide trials
 - Early spring and summer
 - Water column treatments
 - Bucket trials
 - Exposed sediments (2014)
 - Granular (planning)
- Spatial Model of Flathead Lake



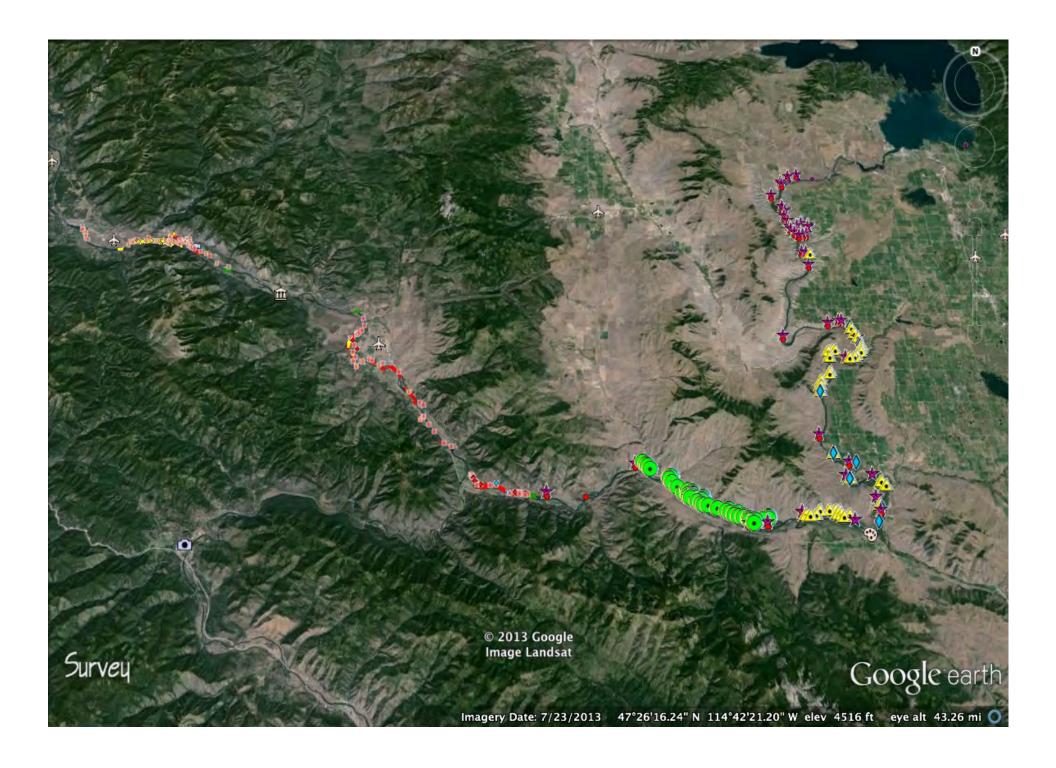




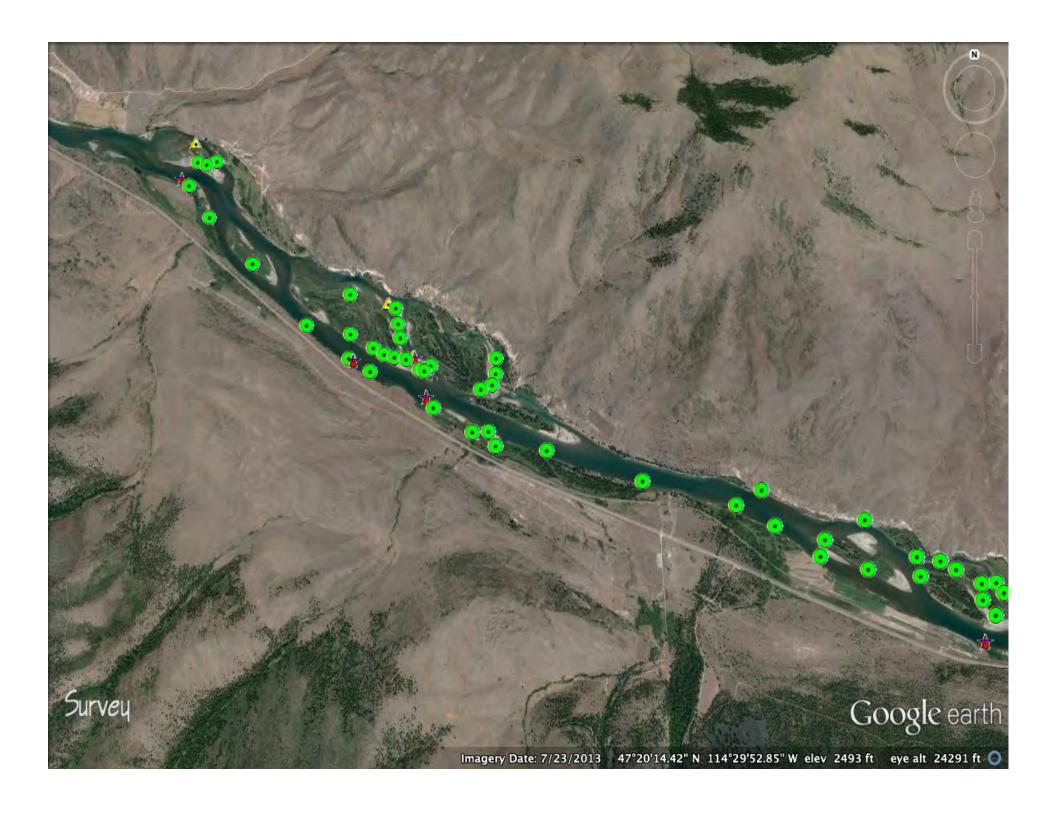
Initial Spatial Modeling Predictions

Marcus Reddish

| | Size Acres | Infested Acres | Max Acres | % of Lake |
|--------------------|---------------|-------------------|--------------|-----------|
| 0-10" Littoral | 5,823 | > 1000 | 4,364 | 3.5% |
| 10-20' Littoral | 8,375 | > 1000 | 6,546 | 5.3% |
| | 14,558 | > 2,000 | 10,910 | 8.8% |

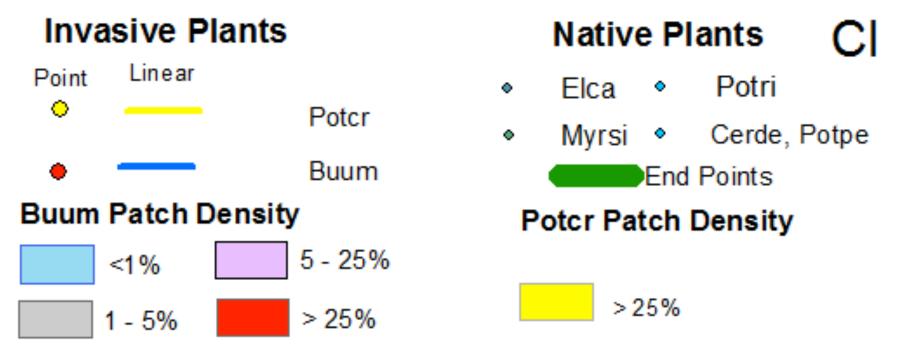


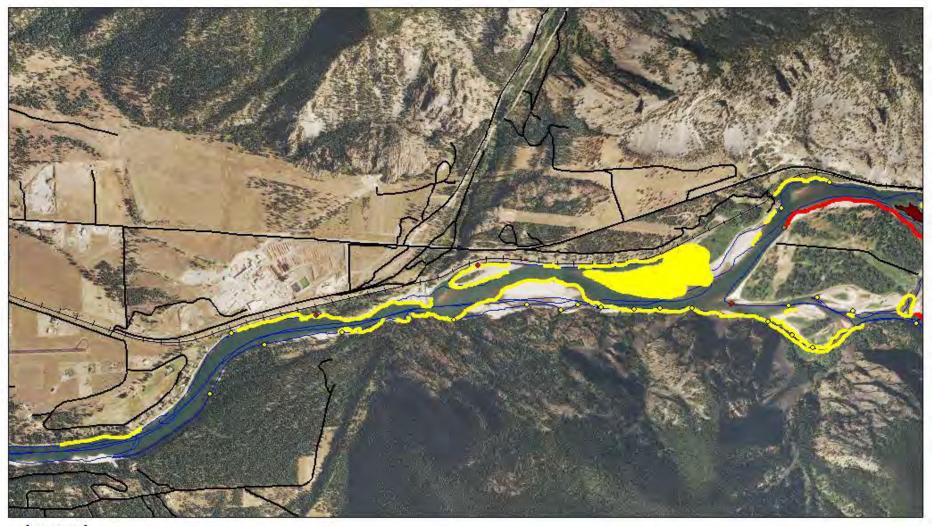




Mapping Protocols

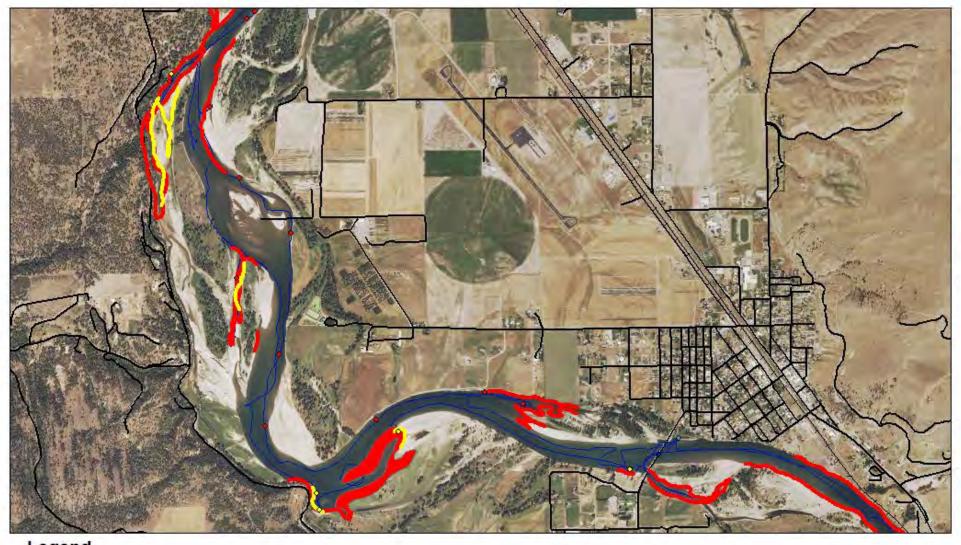
Legend

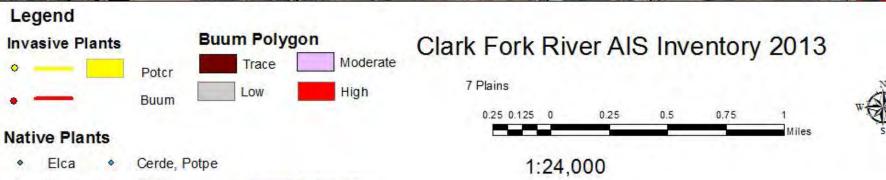






Myrsi

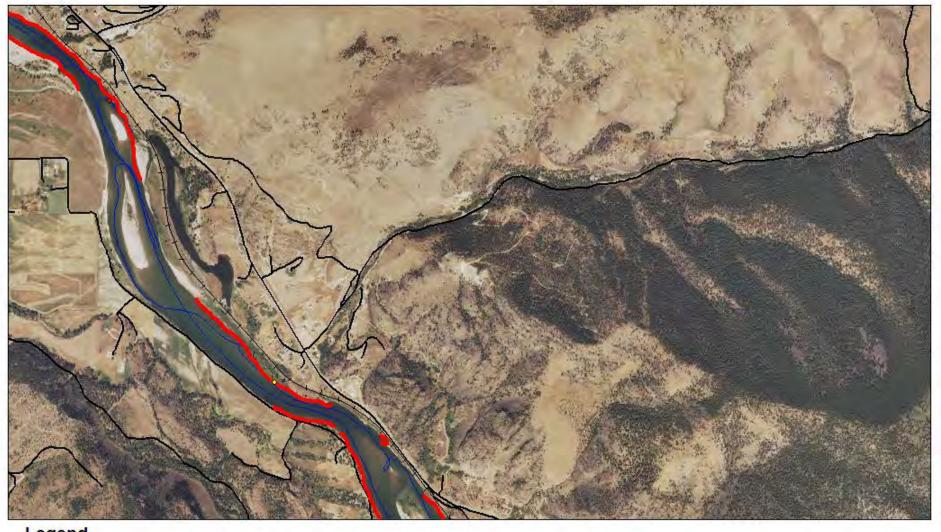


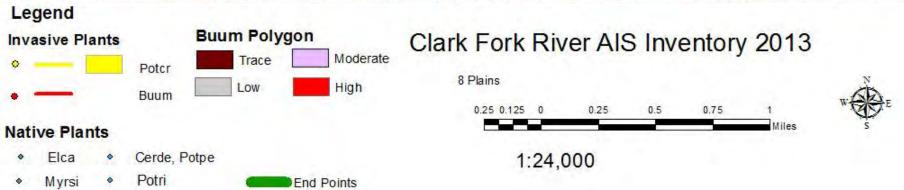


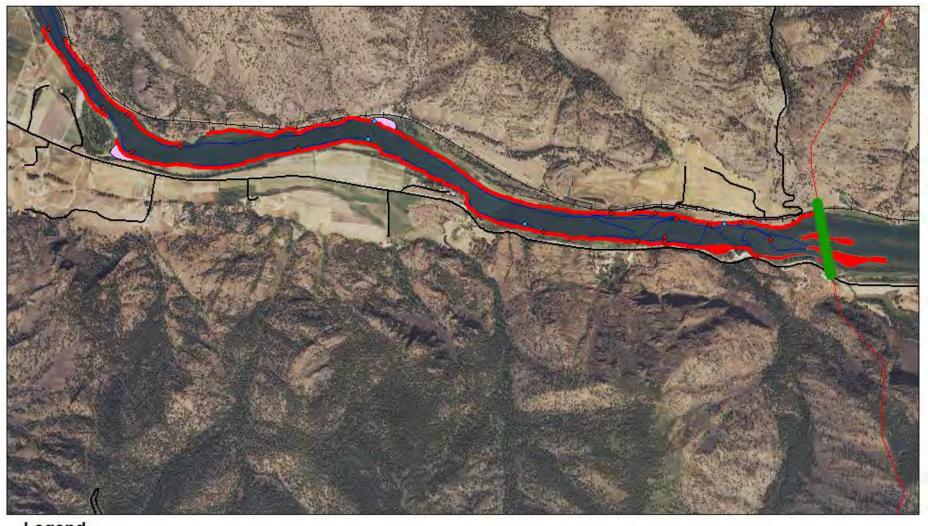
End Points

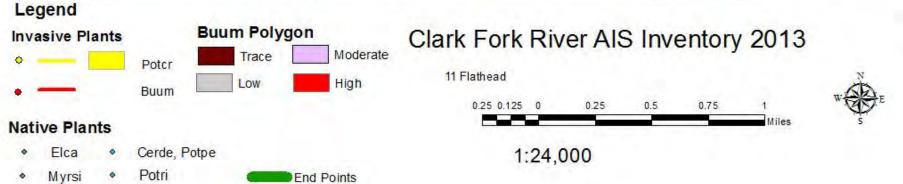
Potri

Myrsi





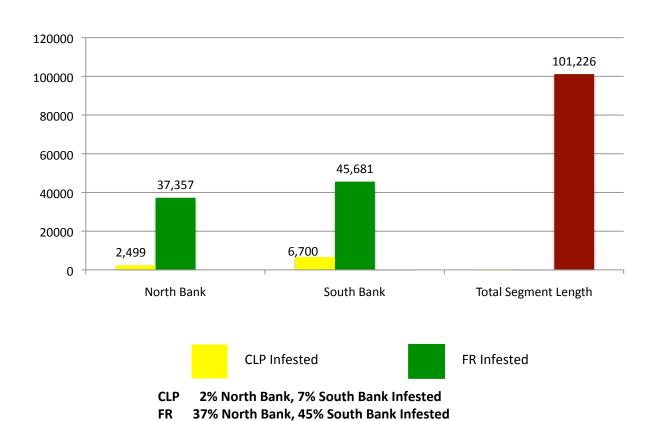




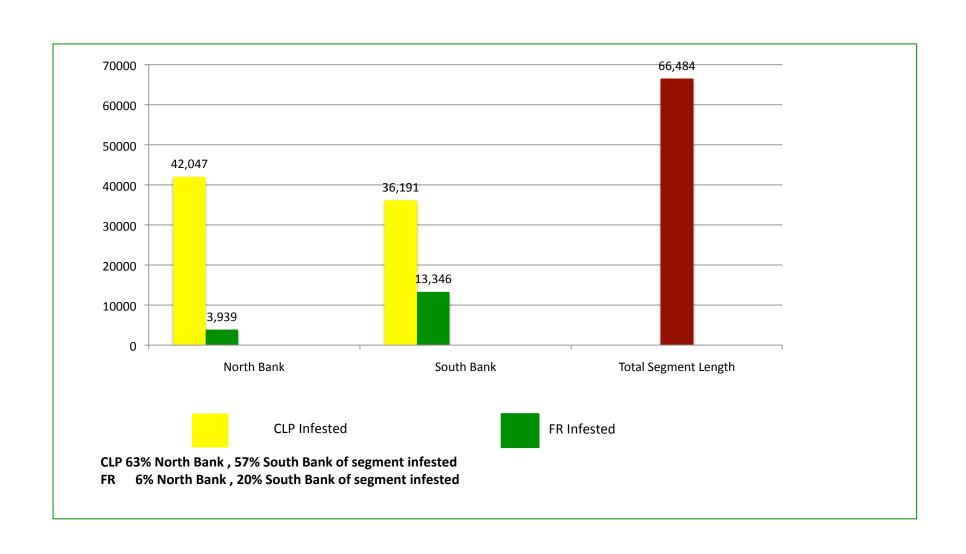
Flathead Reservation line to Thompson Falls Inventory Summary

- Total river inventory length 31.5 miles
- Miles of river bank inventory, both sides 63.0 miles
- Miles of islands inventoried, both sides 30.4 miles
- Linear miles of flowering rush 24.8 miles
- Acres of flowering rush 88.3 acres
- Linear miles of curlyleaf pondweed 11.4 miles
- Acres of curlyleaf pondweed 61.1 acres

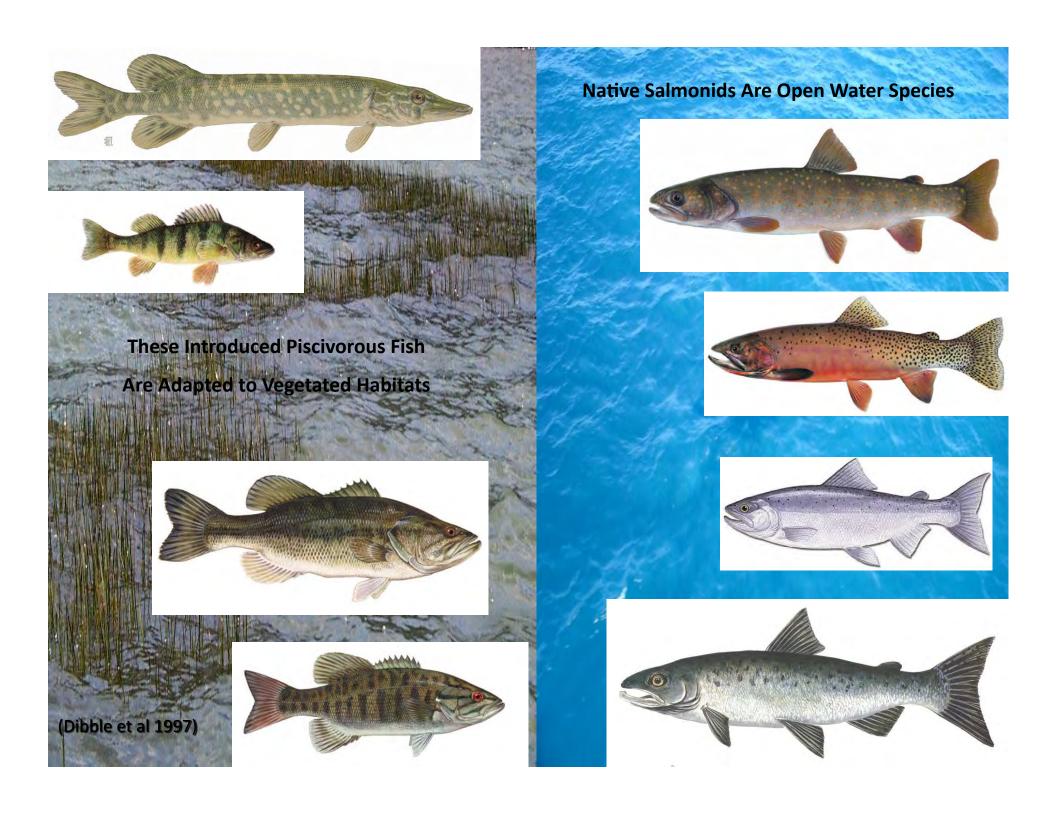
Reservation Line to Plains 19 miles (feet of bank infested)



Thompson Falls Upstream 12.6 miles (feet of bank infested)

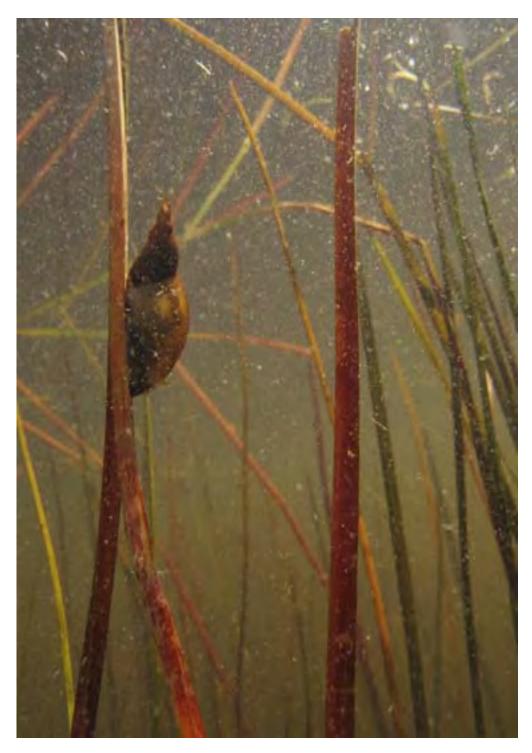


- Monitor AIS in the Flathead River and Clark Fork River on a regular basis.
- Develop standard field data collection procedures, documentation, and reporting.
- Support the AIS prevention efforts in enforcement, inspection, outreach, and research.
- Evaluate impacts to native fish and plants, economic impacts, sedimentation,
- Investigate the feasibility of herbicide treatments in a river environment.
- Investigate controls for flowering rush.



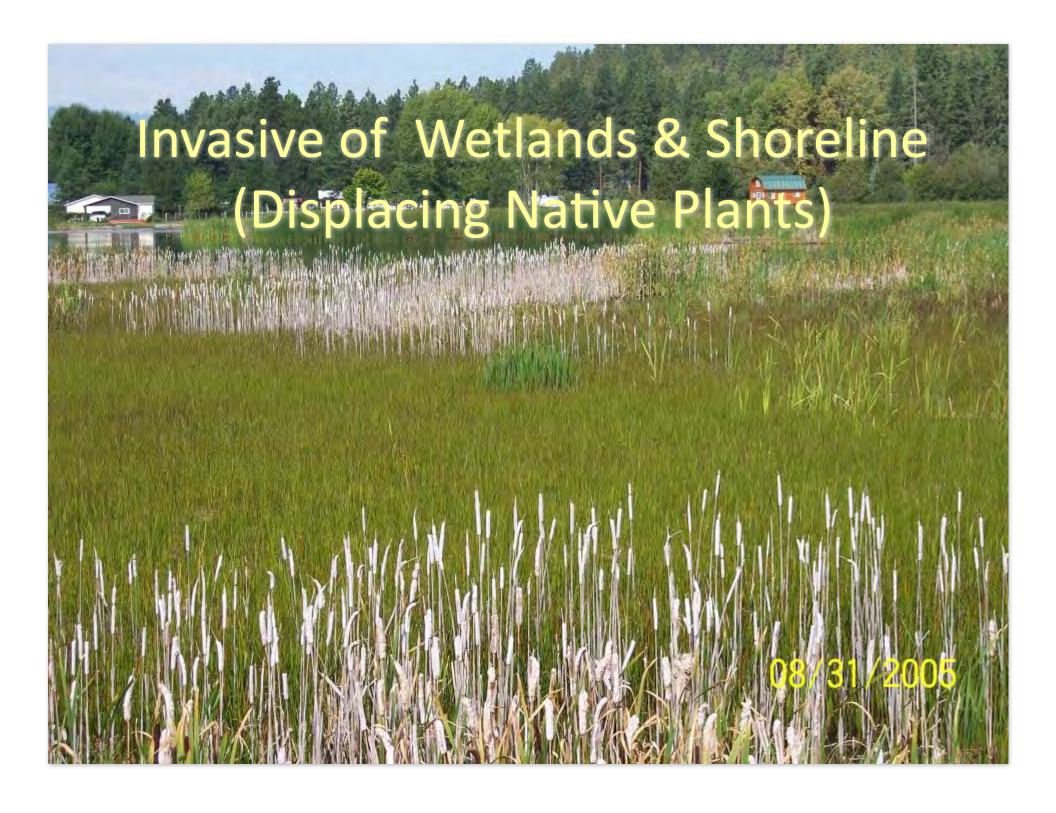






Swimmer's Itch (schistosome cercarial dermatitis)
Trematode Parasite









Partners

- USDA NIFA
- Montana Department of Agriculture
- Montana Department of Natural Resources
- Western Integrated Pest Management Center
- Confederated Salish and Kootenai Tribes
- Clean Lakes Inc.