

Rusty Crayfish Control in Lake County



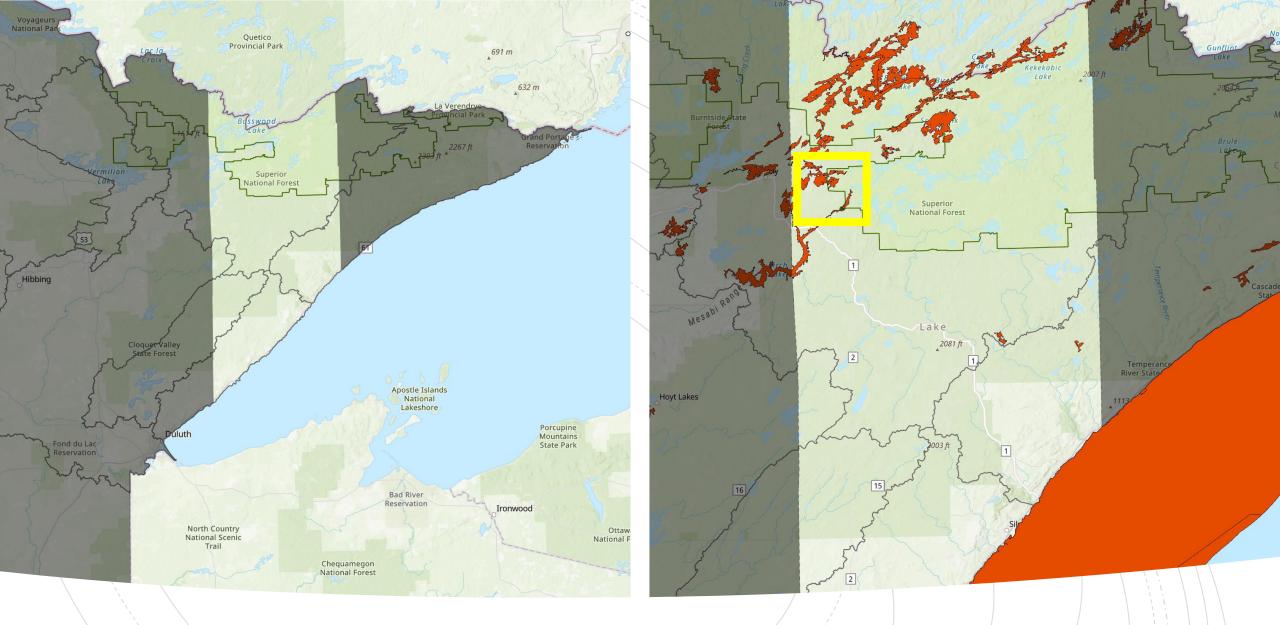
Liz Anderson AIS Program Coordinator Lake County SWCD

Crayfish Control Efforts

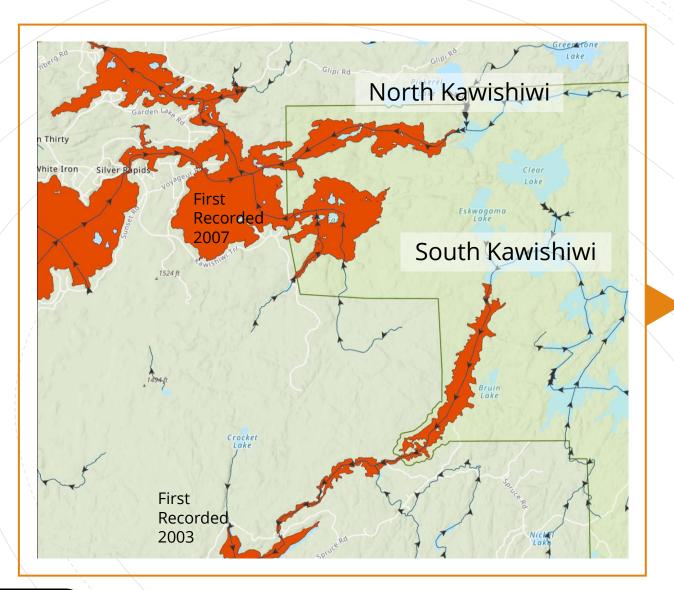


Intensive Trapping on North & South Kawishiwi Rivers Lake Association Trapping

Intensive Trapping on Burntside River



The status of invasive crayfish in Lake County



Intensive Trapping on North & South Kawishiwi River

Goals:

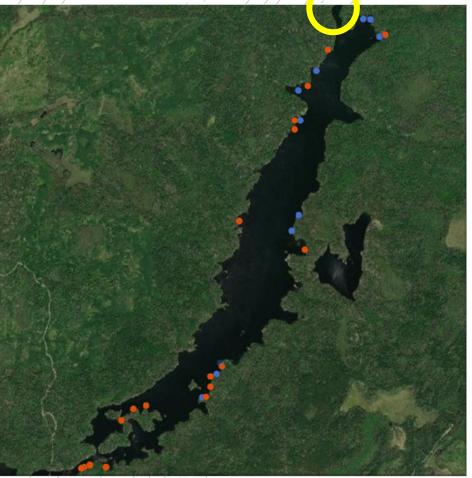
- Halt or at least deter the spread of rusty crayfish into the Boundary Waters Canoe Area Wilderness.
- Elevate the awareness of lake users to AIS impacts, infestation locations and vectors for transmission.
 - Restore littoral vegetation.

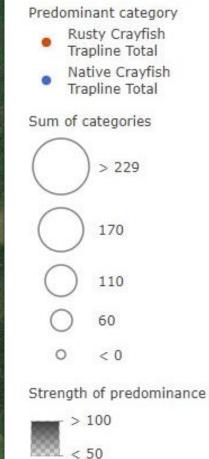


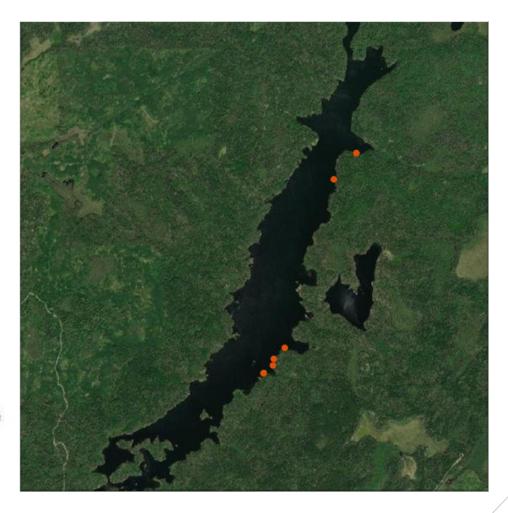
This project was funded in part by the Initiative Foundation, a regional foundation, and the Outdoor Heritage fund as part of the Clean Water, Land and Legacy Amendment.

South Kawishiwi 2015

South Kawishiwi 2016



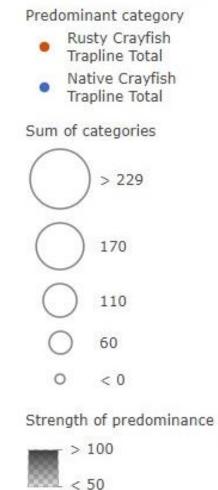




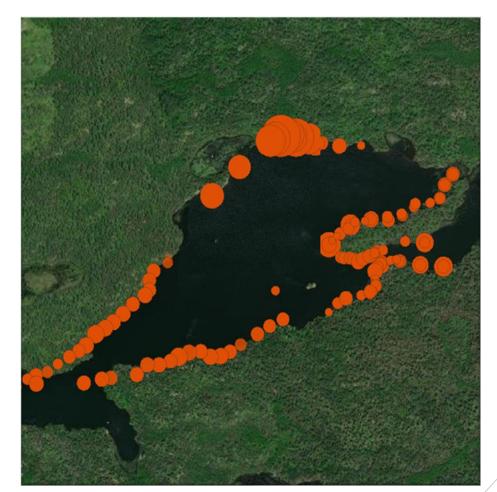
- 2015 trapping showed that native crayfish populations were still hanging on.
- Trapline rusty totals ranged from 0 to 6 per week.

North Kawishiwi 2015





North Kawishiwi 2016



Small numbers of native crayfish caught in 2015

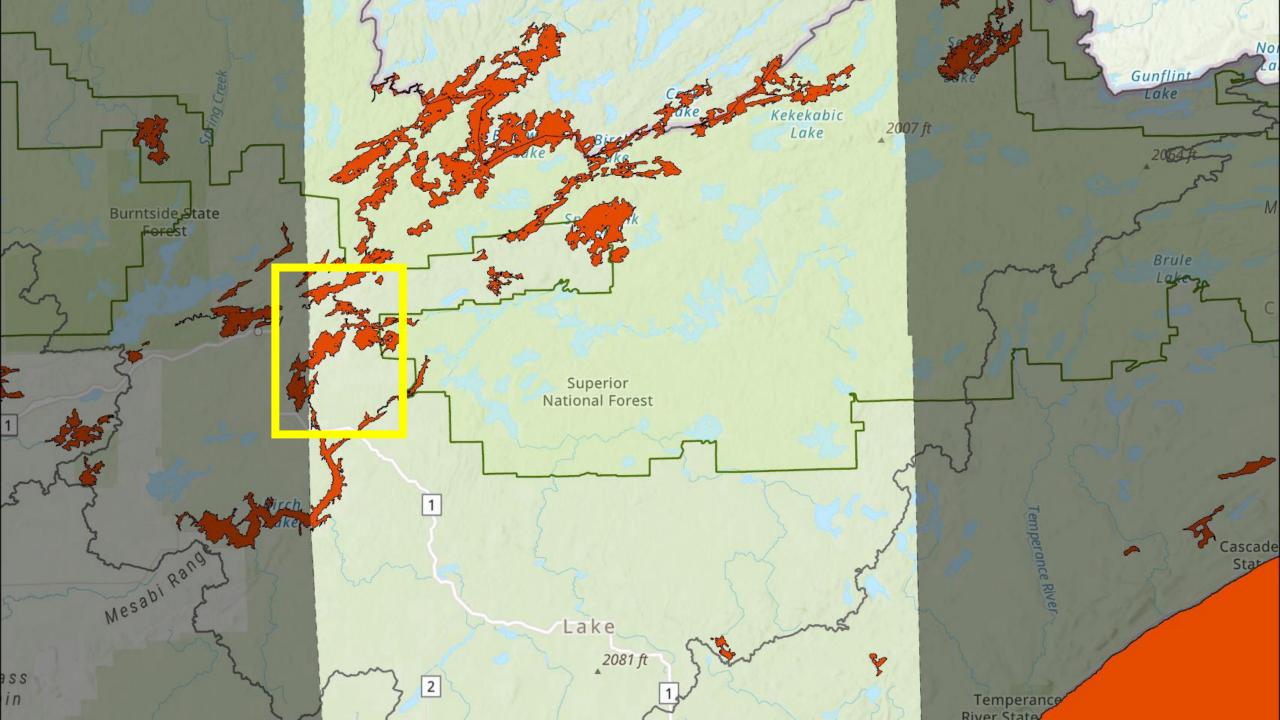
Rusty crayfish completely dominated counts in 2016

• Trapline rusty totals ranged from 0 to 229 per week.

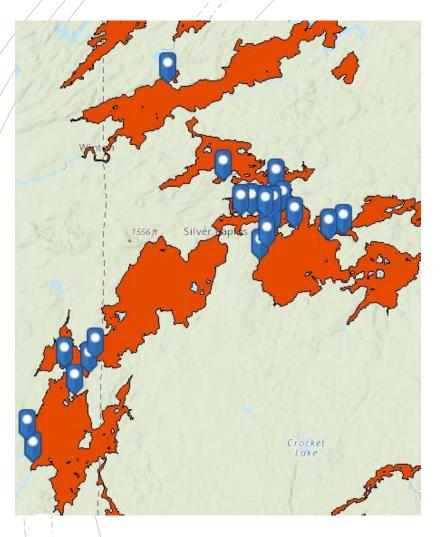


Outcomes

- Rusty crayfish have not been identified on any new reaches of the Kawishiwi River. Was this the result of trapping efforts? Or due to factors such as river morphology or predation (particularly on the South Kawishiwi)?
- Awareness in the area increased through collaboration with the local lake association and through events such as outreach booths at farmer's markets and festivals.
- Baseline vegetation sampling was not conducted, so restoration of vegetation was inconclusive.
- Challenges/limiting factors to this project: work in a wilderness area required "minimal impact" and the infestation extended for about a mile within the wilderness boundary. We could not adequately trap the entire extent of the infestation with enough frequency.
- Challenges/limiting factors to scaling this strategy: funding, finding workers, sustainability (e.g. can the effort be maintained if necessary), time and expertise needed to assess baseline conditions and results.



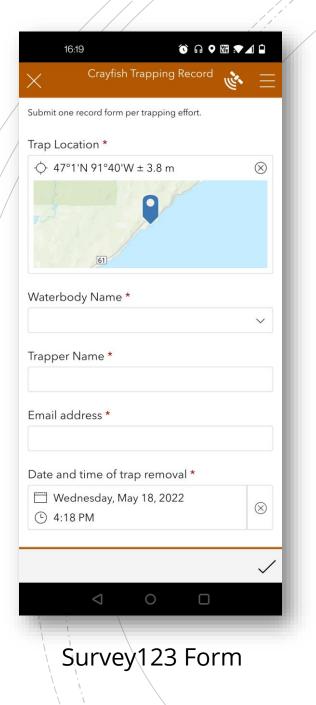
White Iron Chain of Lakes Association (WICOLA) Trapping Efforts

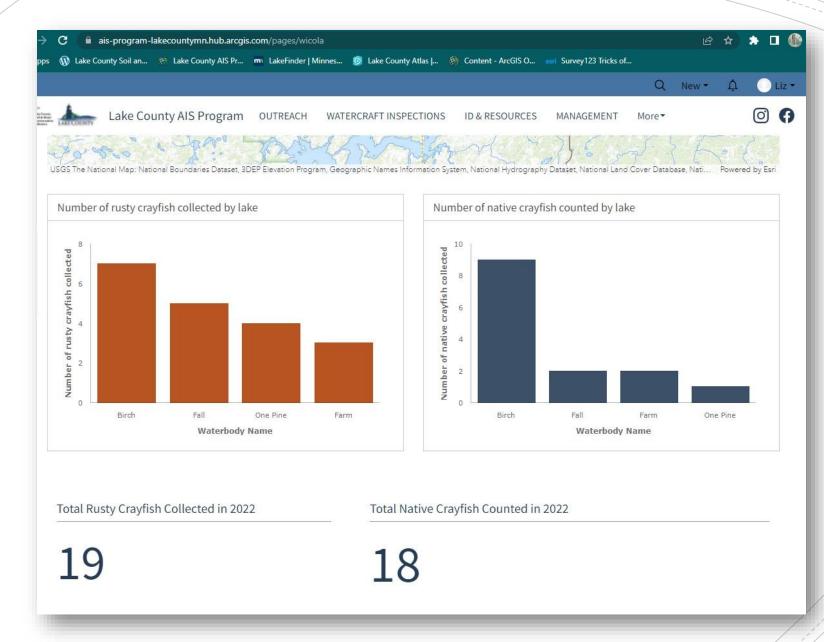


Locations of WICOLA member trappers

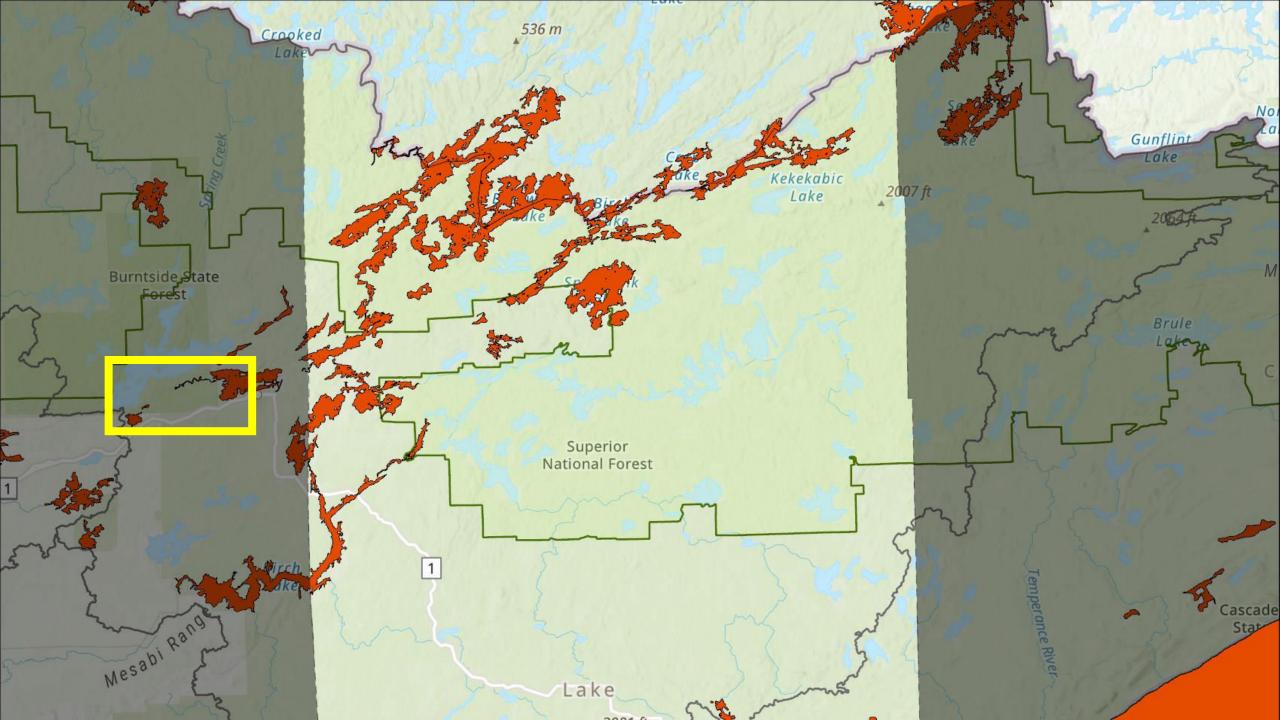


On Fall Lake, Dan reported catching 5,579 rusty crayfish in 2020 and 2,343 in 2021.





Webpage for WICOLA trapping results



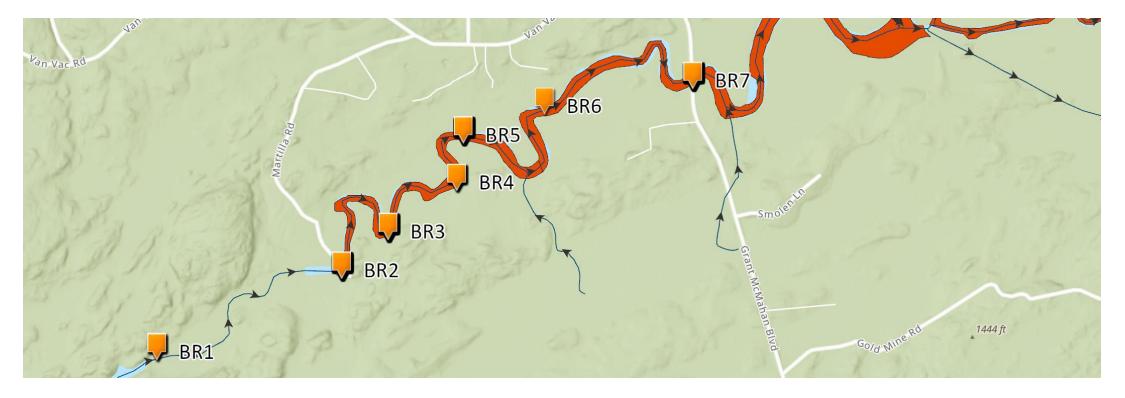


Goals:

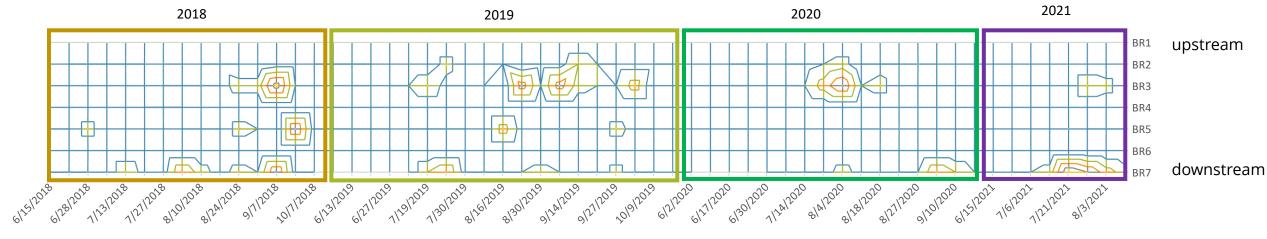
side Lake

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- Prevent the upstream movement of rusty crayfish, keeping them out of Burntside Lake
- Provide opportunities for motivated youth to practice field skills and science inquiry.
- Provide data and talking points for AIS outreach.



Burntside River Rusty Crayfish Trapping Numbers

















Overall Take-aways

- Intensive trapping can have an impact when the scale is manageable and sustainable.
- Trapping can be effective at pinch points in narrow waterways and at discrete locations, such as lengths of shoreline.
- Partnerships with community organizations are crucial to having the manpower, maintaining momentum and promoting awareness.

Thank you Liz Anderson – liz.Anderson@co.lake.mn.us