

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Squirrel Lake Group Meeting

Nathan J. Lederman – Oneida County Fisheries Team

Chad Leanna – Oneida County Fisheries Team

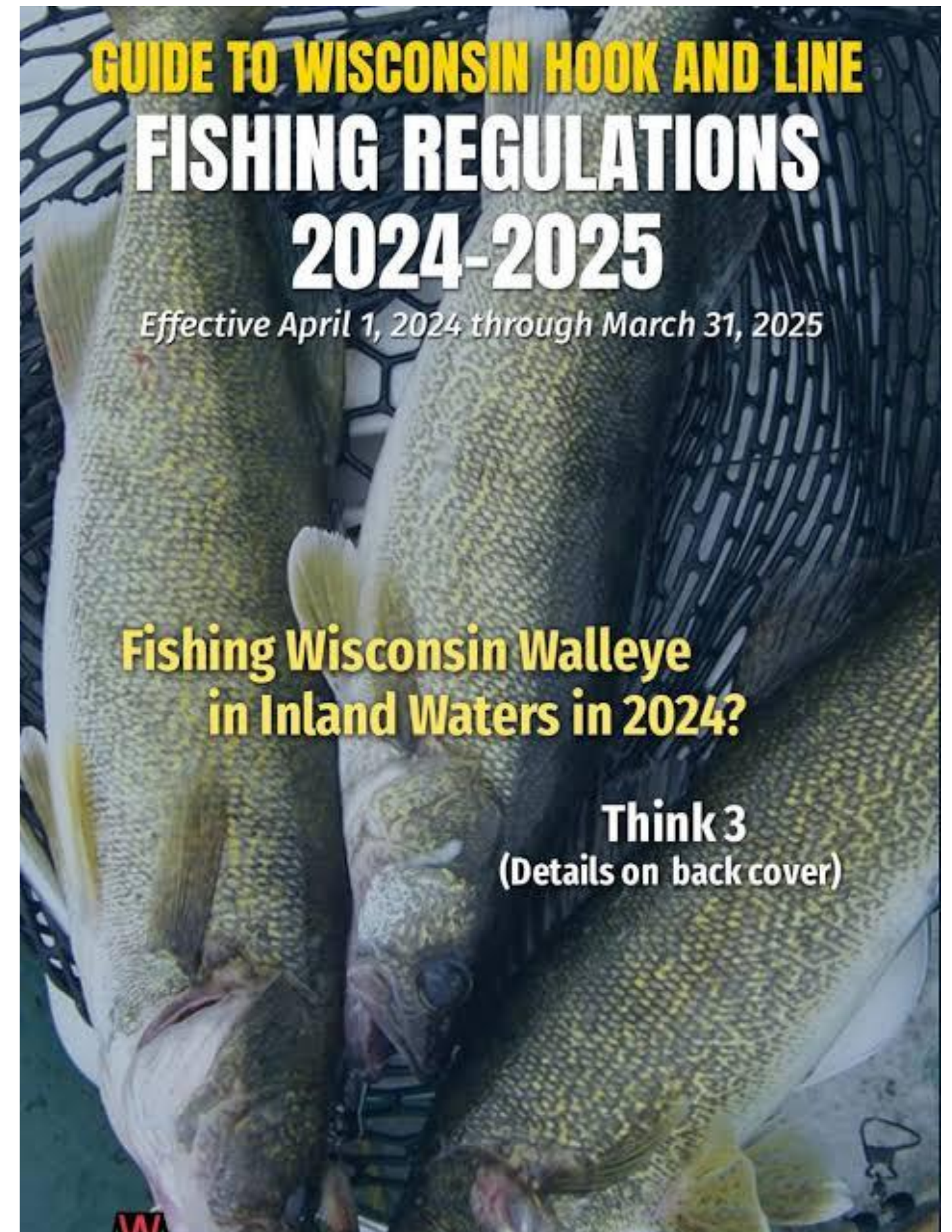
Royce Zehr – Fisheries Supervisor

Brandon Byrne – Inland Fisheries Biologist

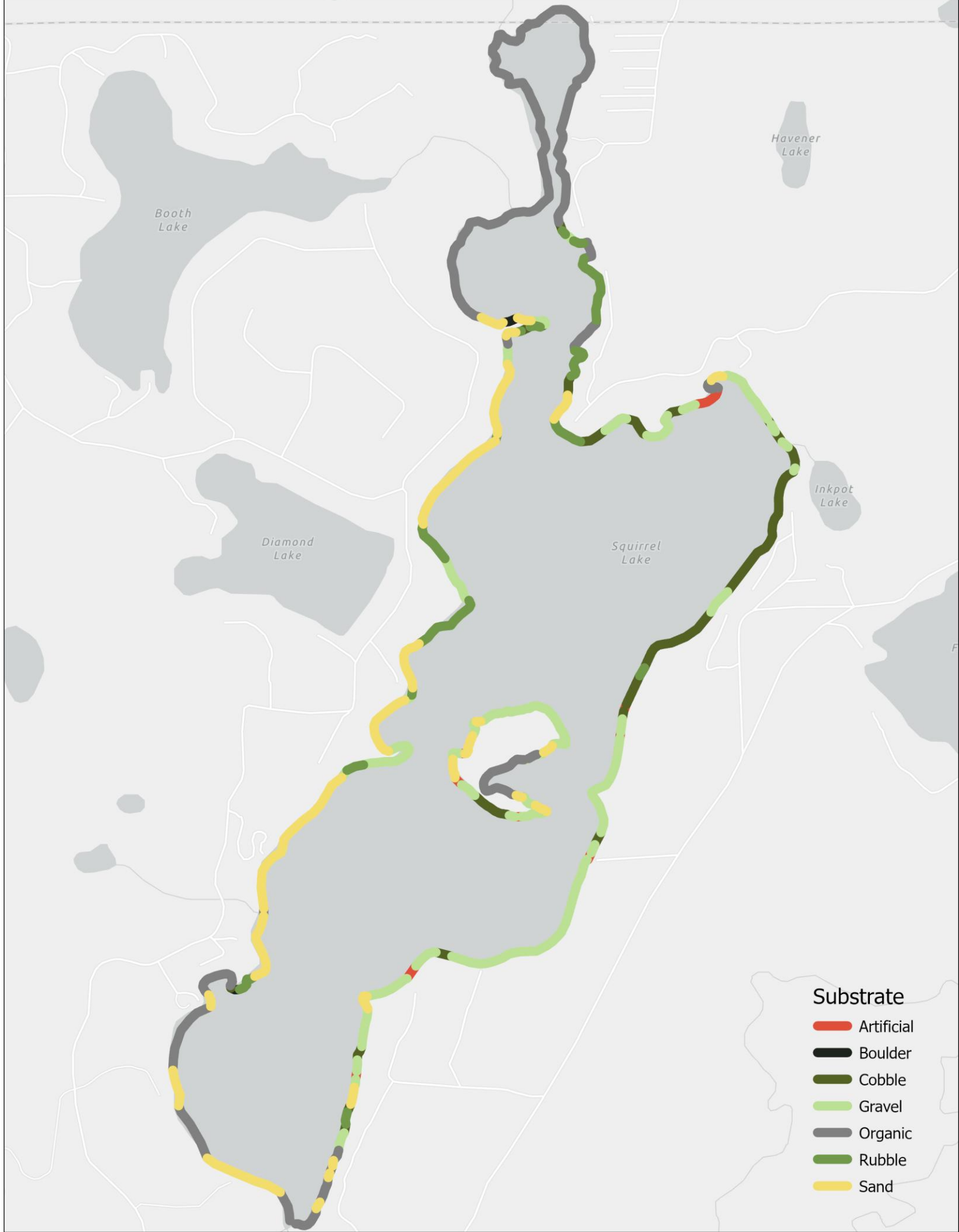
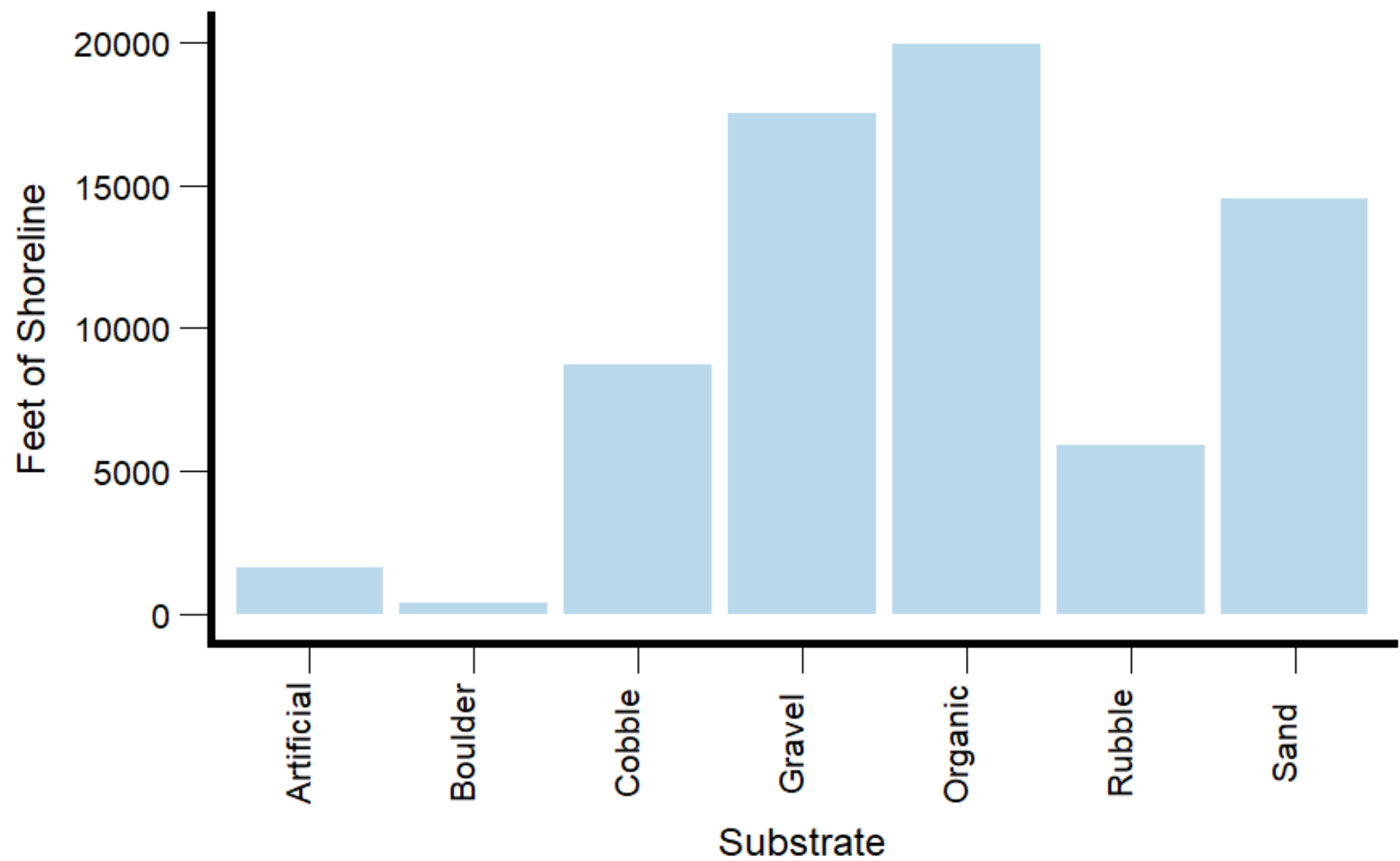
August 26 | DNR.WI.GOV



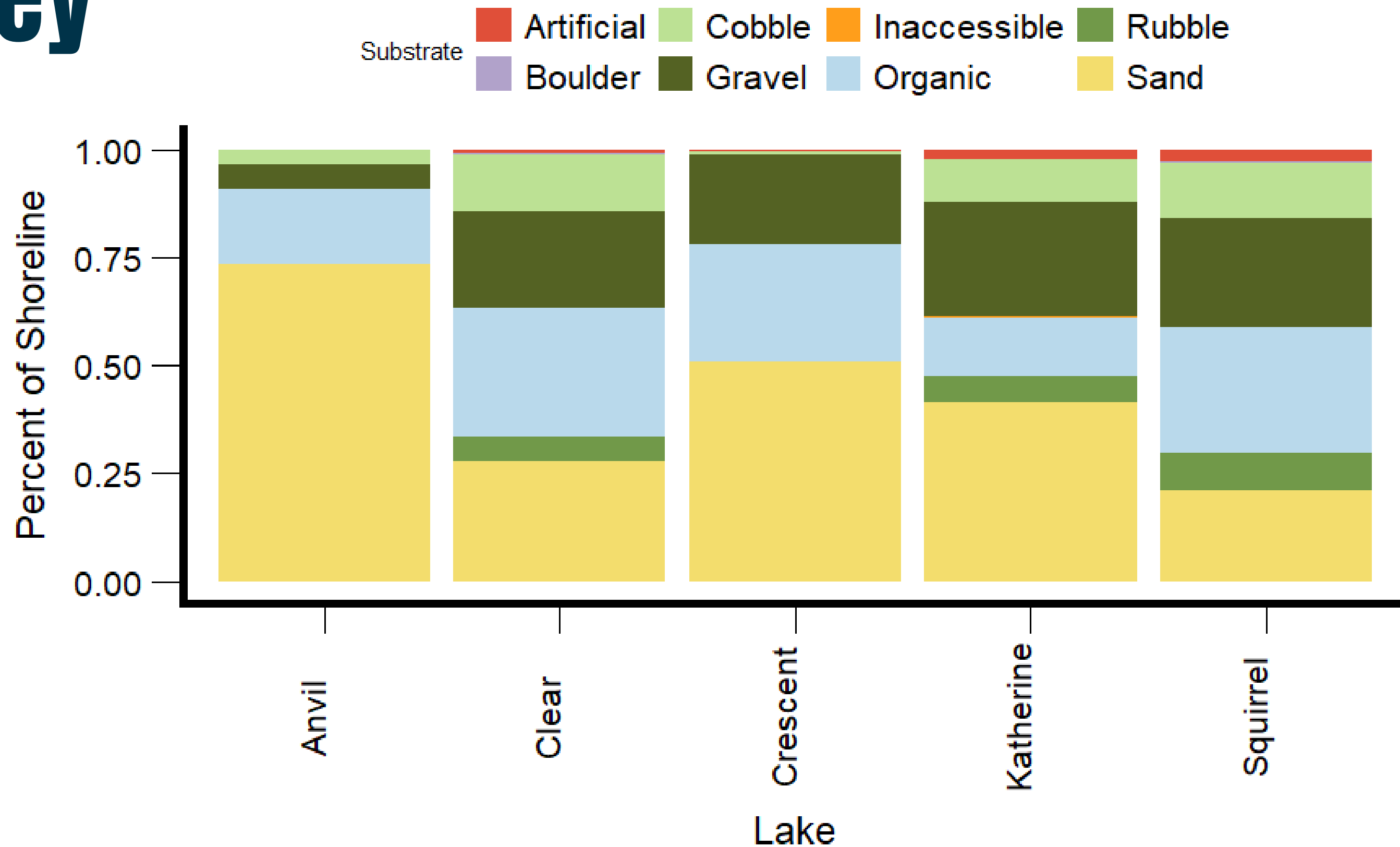
Regulation update



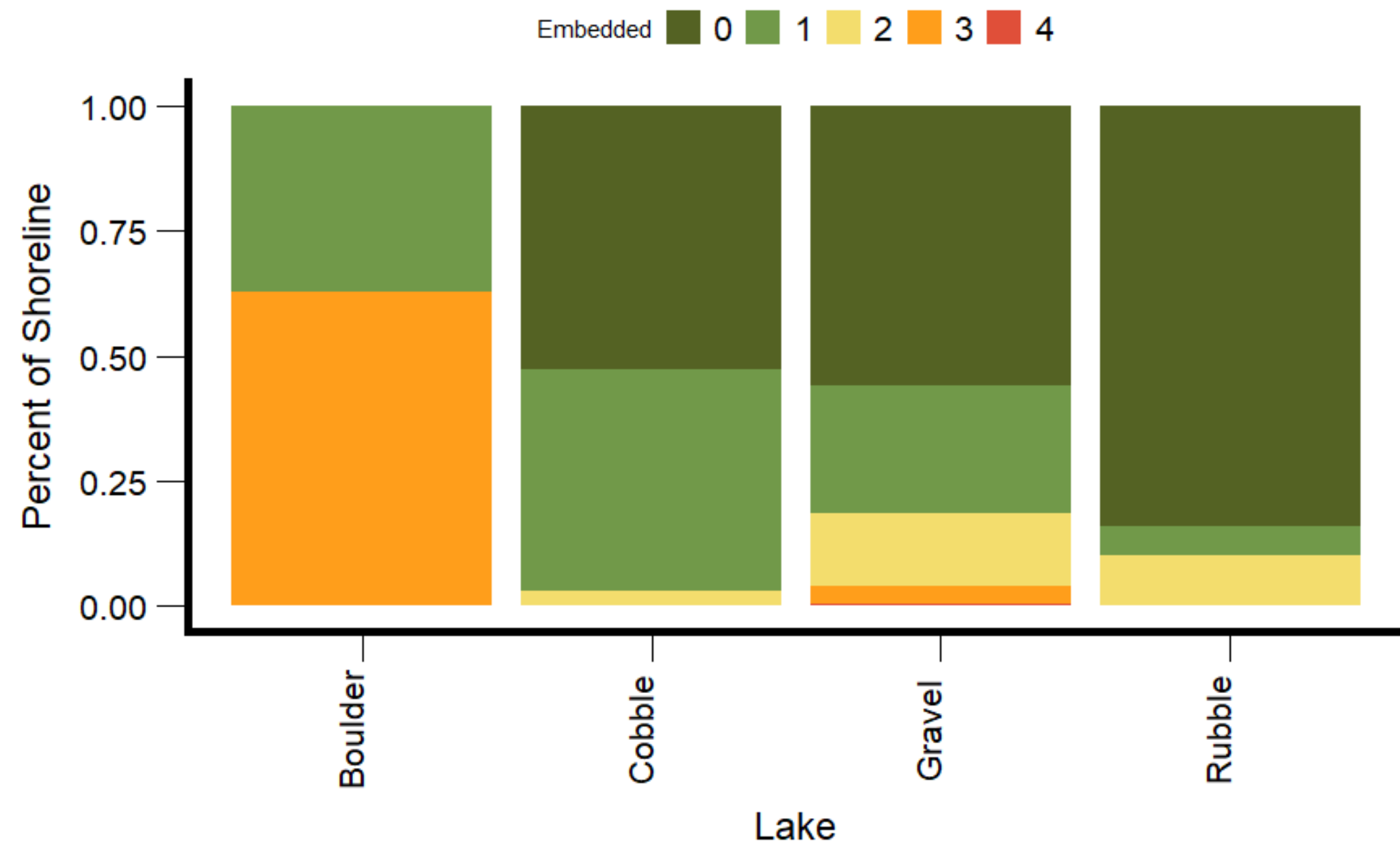
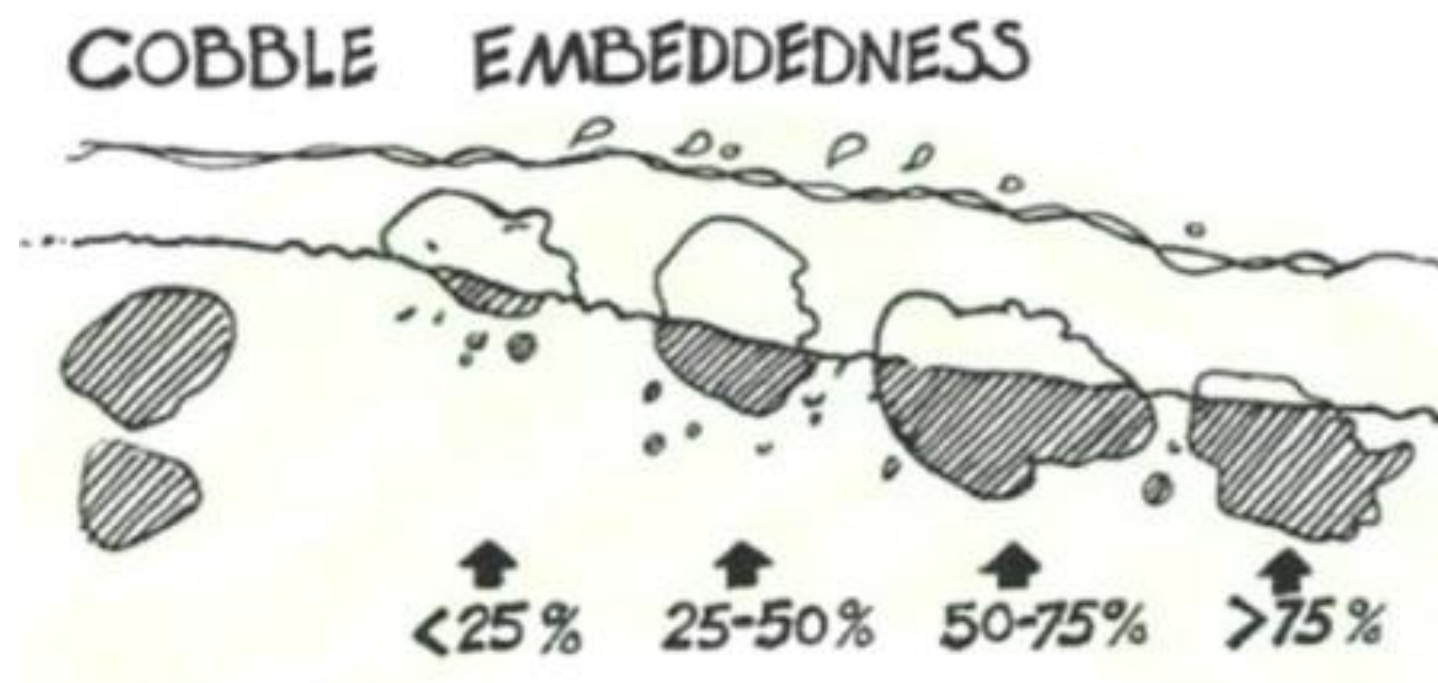
Nearshore Substrate Survey



Nearshore Substrate Survey



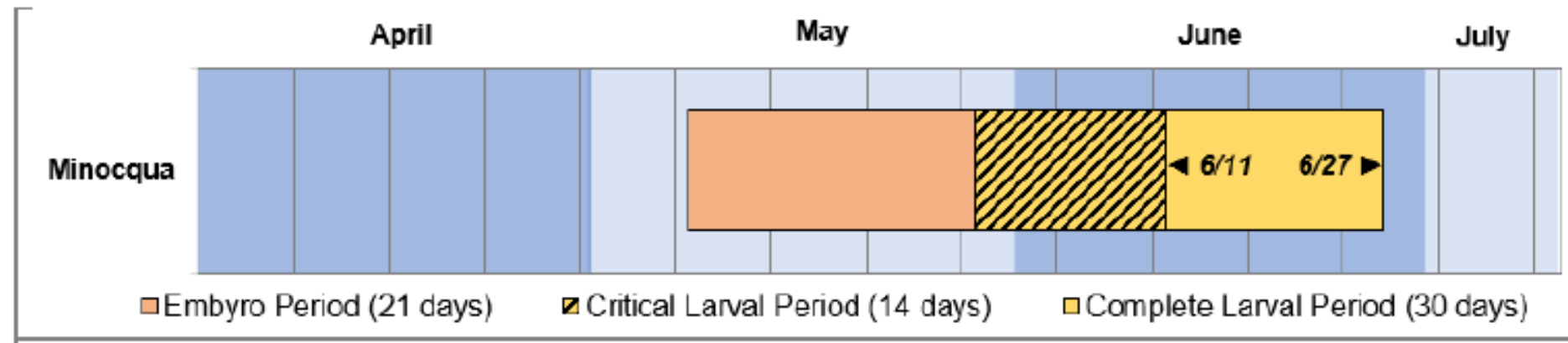
Nearshore Substrate Survey



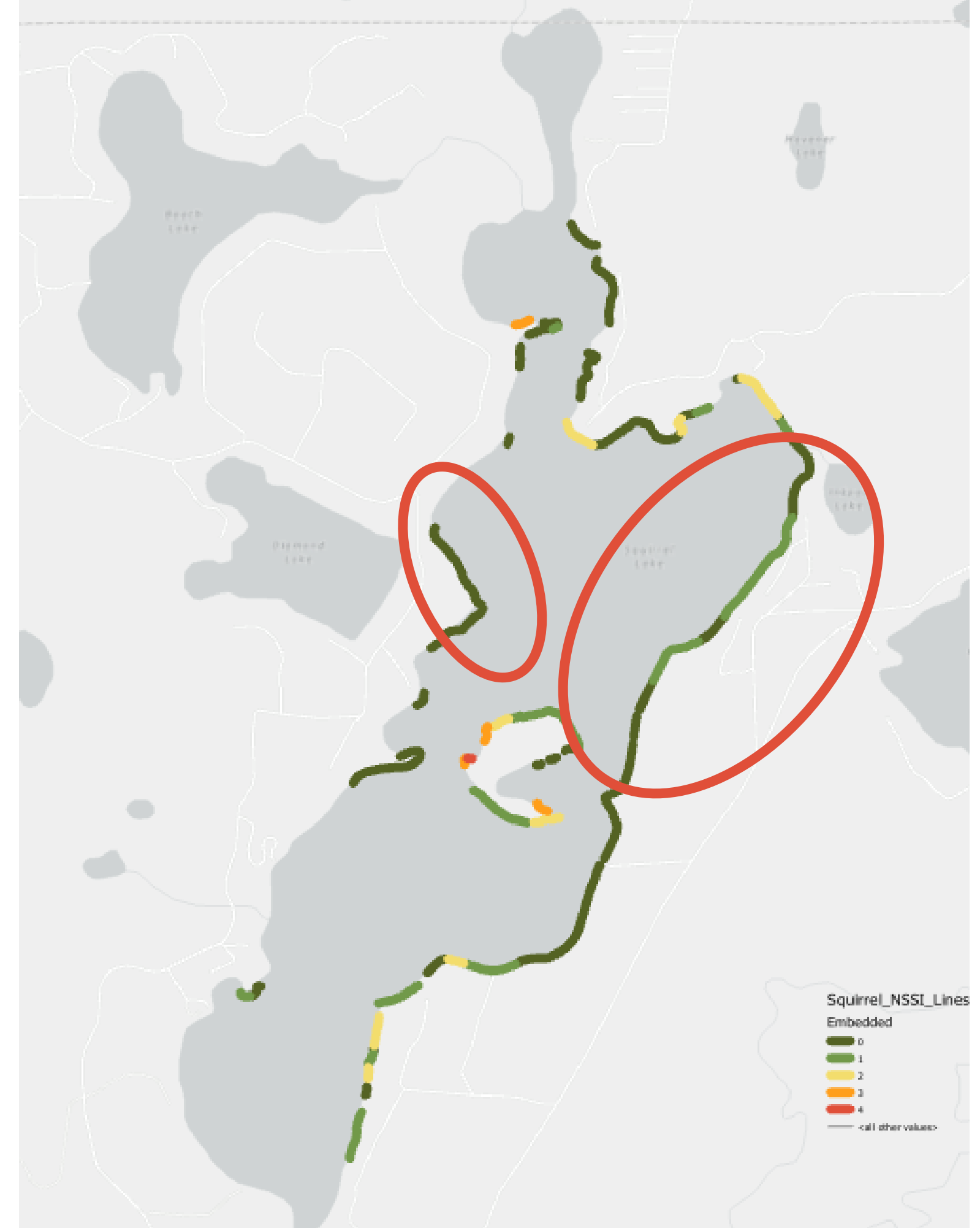
Natural Reproduction Potential



Maintain ideal areas



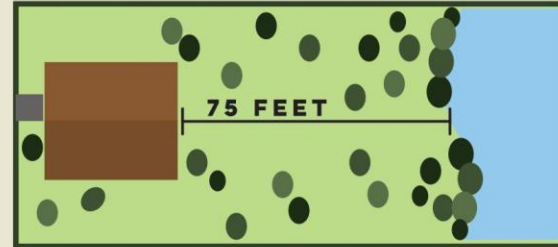
Onterra 2023



THE VALUE OF SHORELAND ZONING

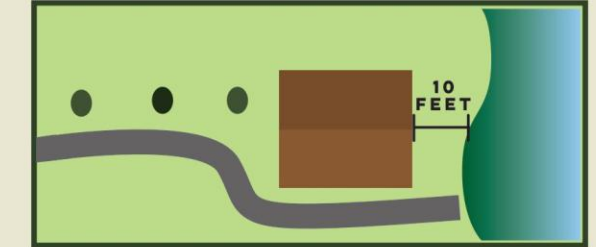
✓ SHORELAND ZONING

A house that is set back at least 75 feet from the water allows space for trees and native plants.



NO SHORELAND ZONING ✗

A house that is close to the water does not leave space for trees and native plants to stabilize the shoreline.



When **hard surfaces** are built **far from the shore** and native plants and trees are **kept in place**, the shoreline is naturally more stable allowing:

Clear water =
High waterfront
property values

Less lawn = Less
runoff = Less
water pollution

More native plants
and trees = **More**
fish and frogs

Less algae growth



When **hard surfaces** are built **close to the shore** and native plants are **removed**, the shoreline erodes into the lake causing:

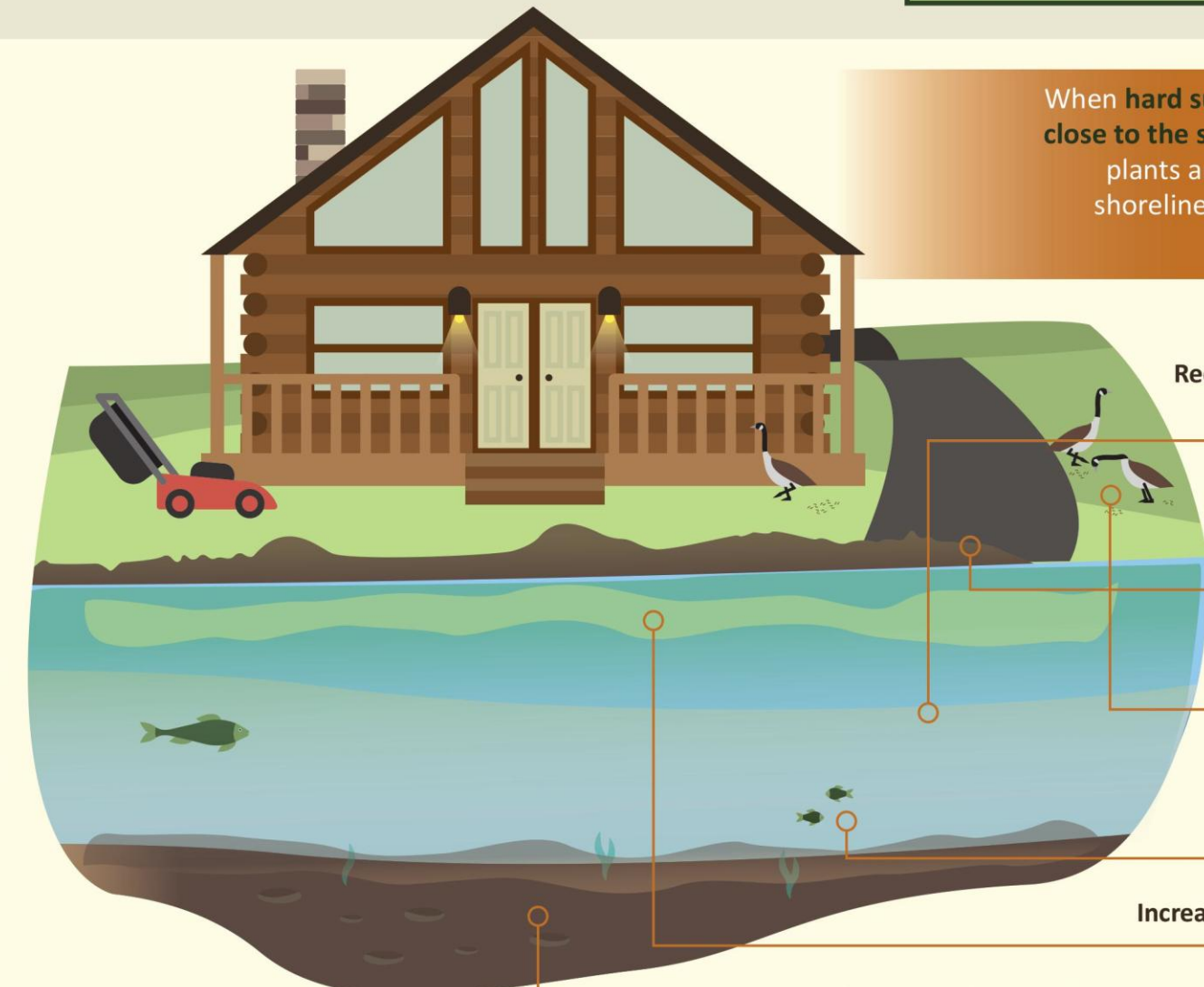
Cloudy water =
Reduced waterfront
property values

More lawn =
More erosion that
pollutes water

More lawn
attracts geese

Fewer frogs,
fish, and fish
species

Increased algae growth



Fish eggs suffocate when
covered in eroded soil

CONCLUSIONS

Shoreland zoning standards make it possible to carefully **develop** a waterfront property, **protect** the lake or river, and keep waterfront property values **high**.

For more information, check with your local zoning office.

WHAT DO SHORELAND ZONING STANDARDS ACCOMPLISH?

Fewer
eroded shorelines

Clearer water =
Higher property values

More fish and
fish species

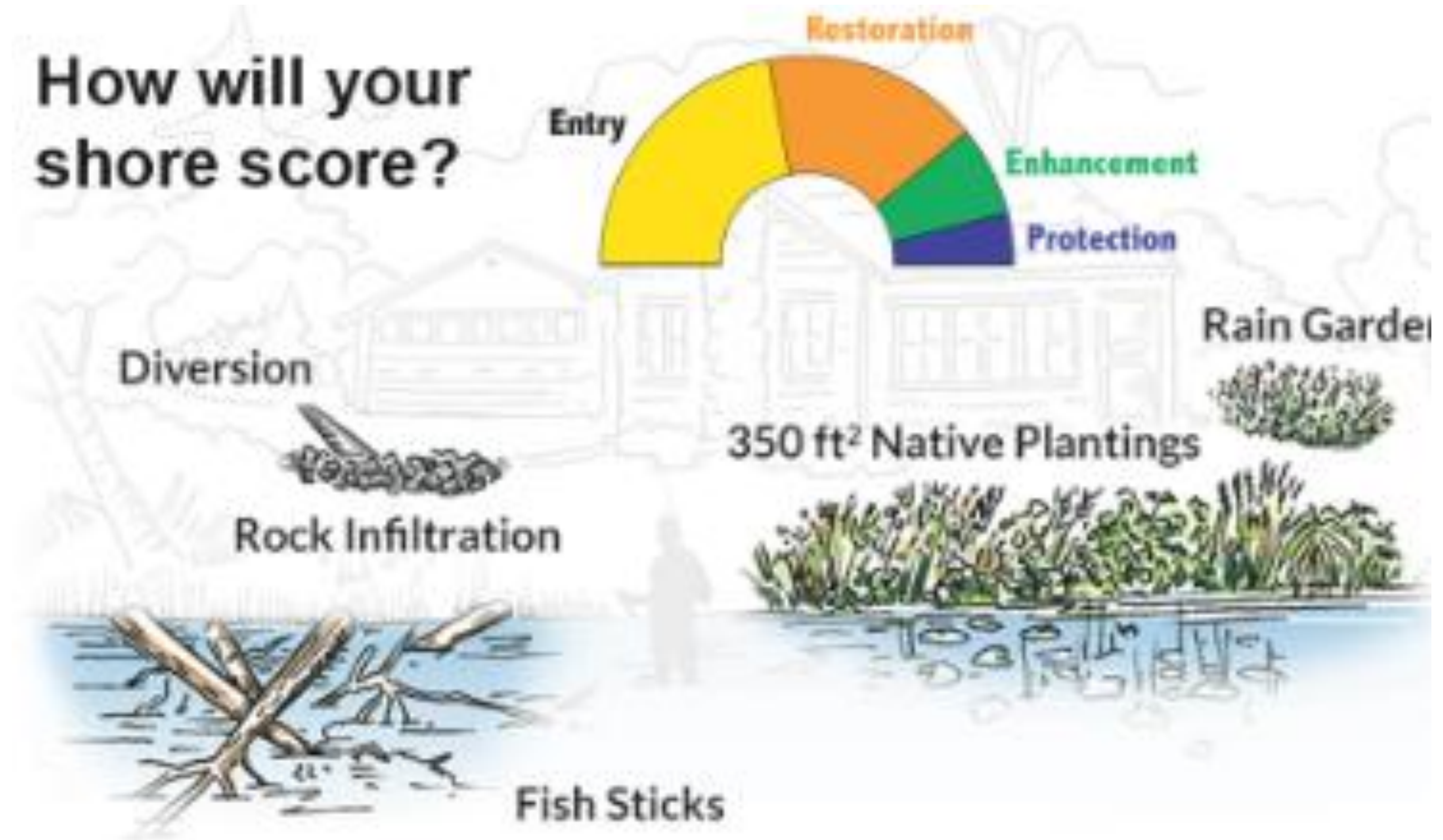
More food and shelter
for fish and frogs

CONCLUSIONS

Waterfront property developed without shoreland zoning standards can lead to **erosion**, **harm** the lake or river, and **reduce** waterfront property values.

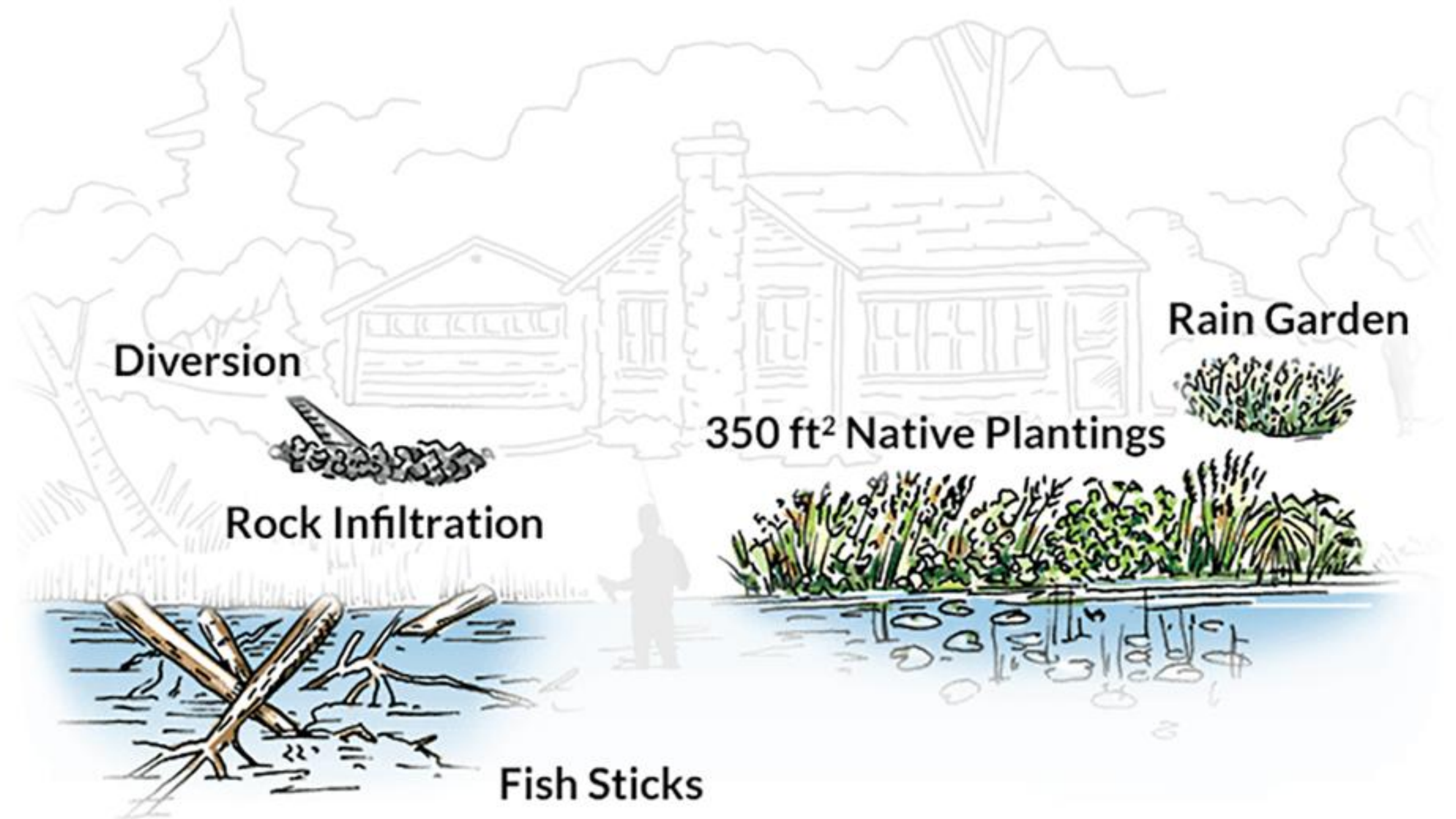
Complete the Shoreland Evaluation Tool to assess your waterfront property at survey.healthy lakeswi.com.

Shoreline assessments

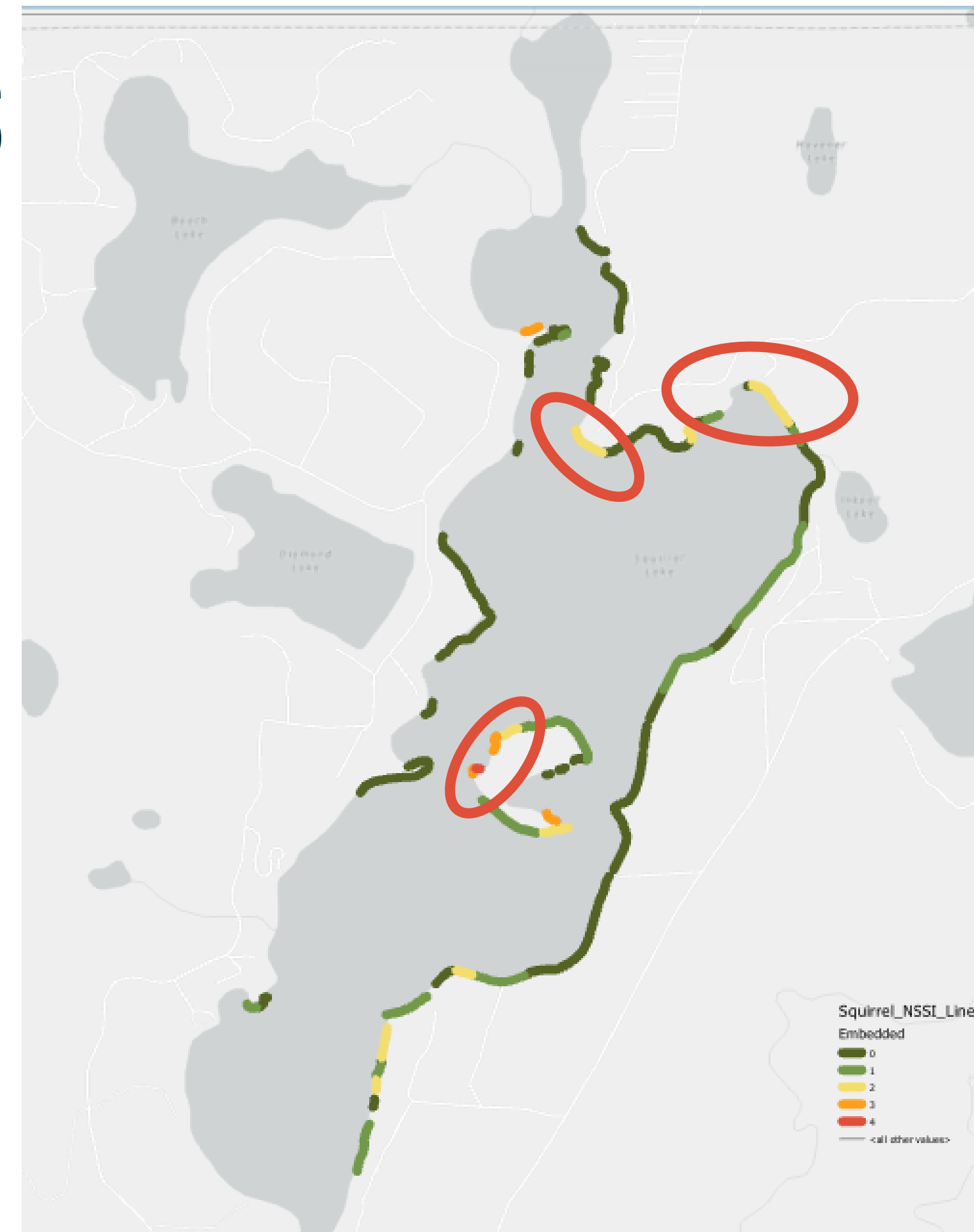


<https://extensionlakes.org/wi>

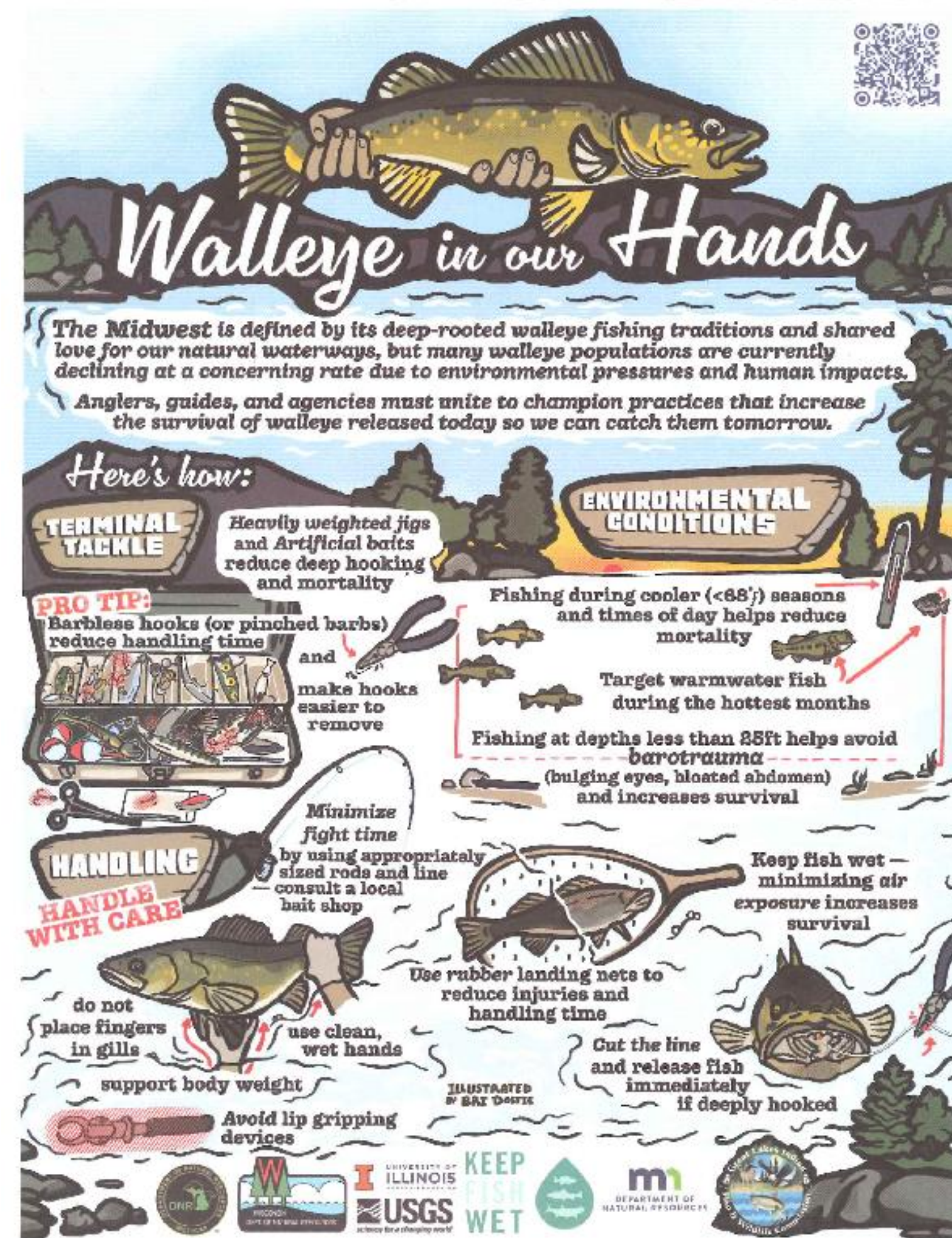
Shoreline actions



Limit high sediment areas



Safe handling of walleye



Bass Population Estimate (GLIFWC)



Bass Population Estimate Results



Largemouth Bass

- 0.53 LMB per acre
- ~695 fish
- 27.04% CV

Smallmouth Bass

- 0.19 SMB per acre
- ~254 fish
- 29.81% CV



Bass Population Estimate Results

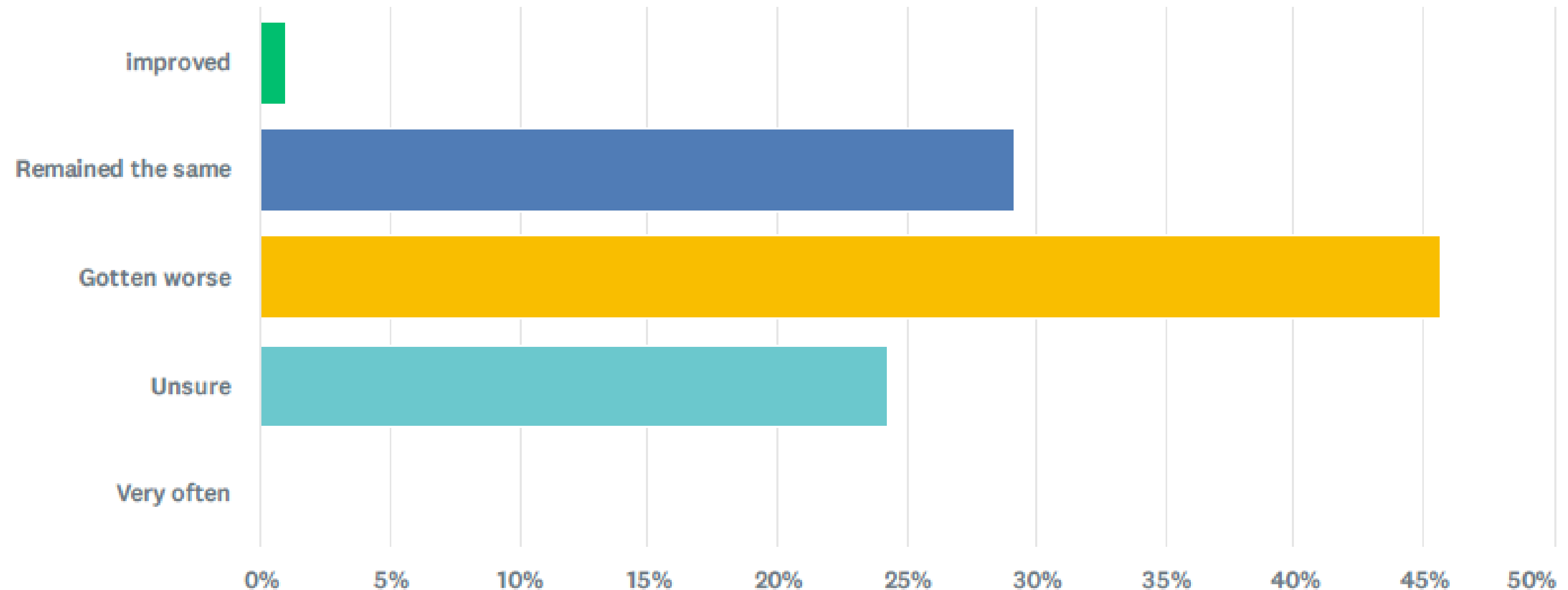


- LMB and SMB present in modest abundance
- Neither species seems likely to impose substantive impacts to walleye population at current abundances



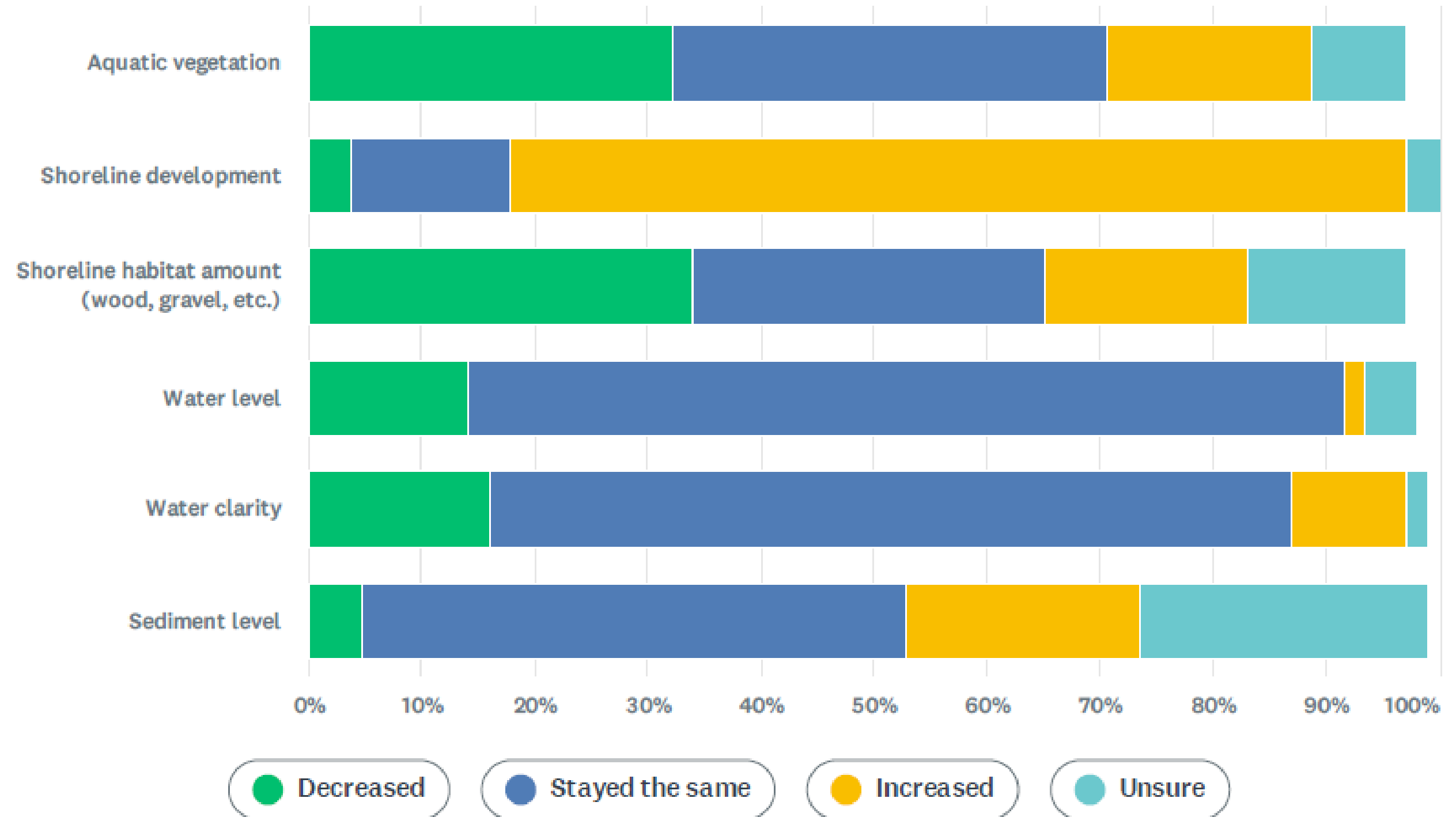
User Survey

How has the aquatic habitat within Squirrel Lake changed since you have been on Squirrel Lake?



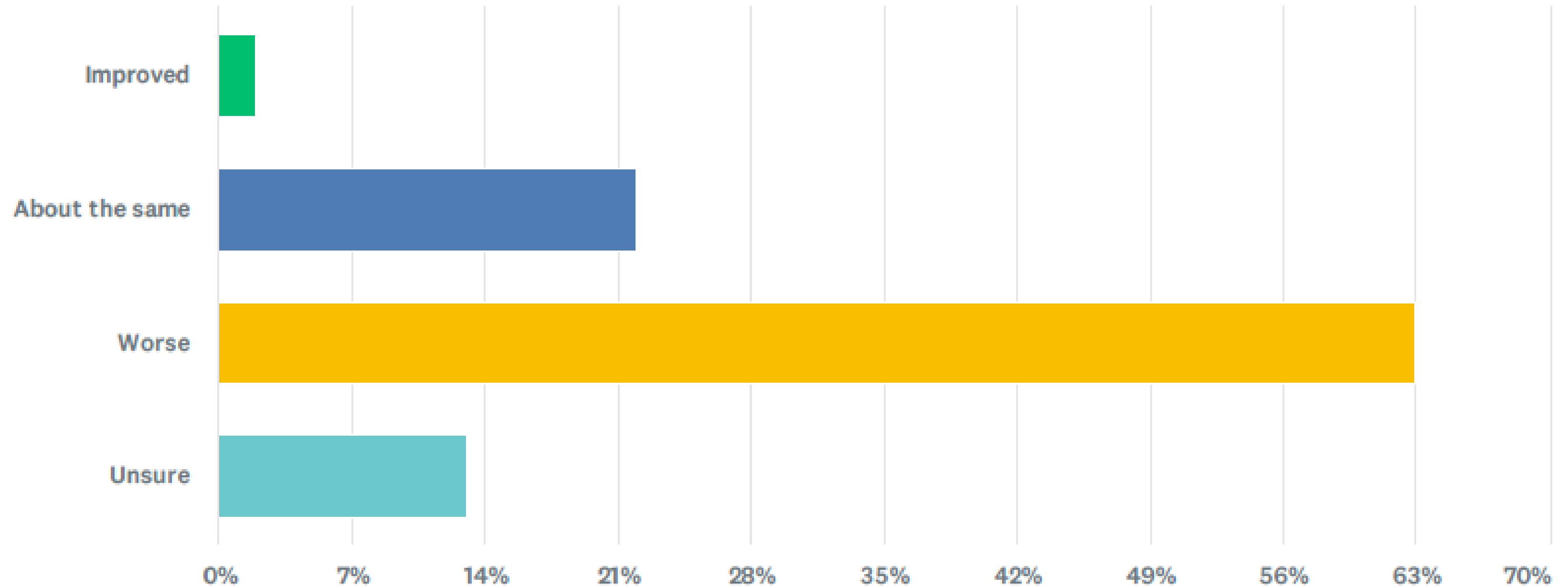
User Survey

Based on your own observations, how has the aquatic habitat in Squirrel Lake changed?



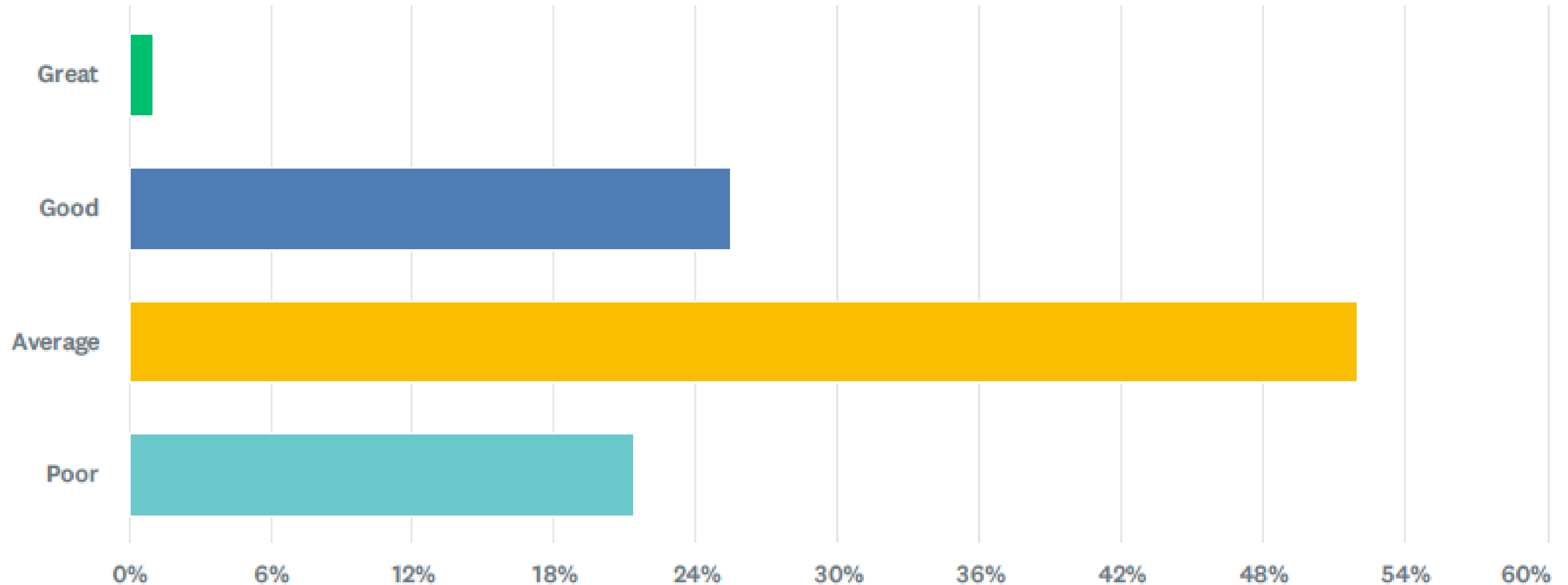
User Survey

How has the fishery changed since you have been fishing Squirrel Lake?



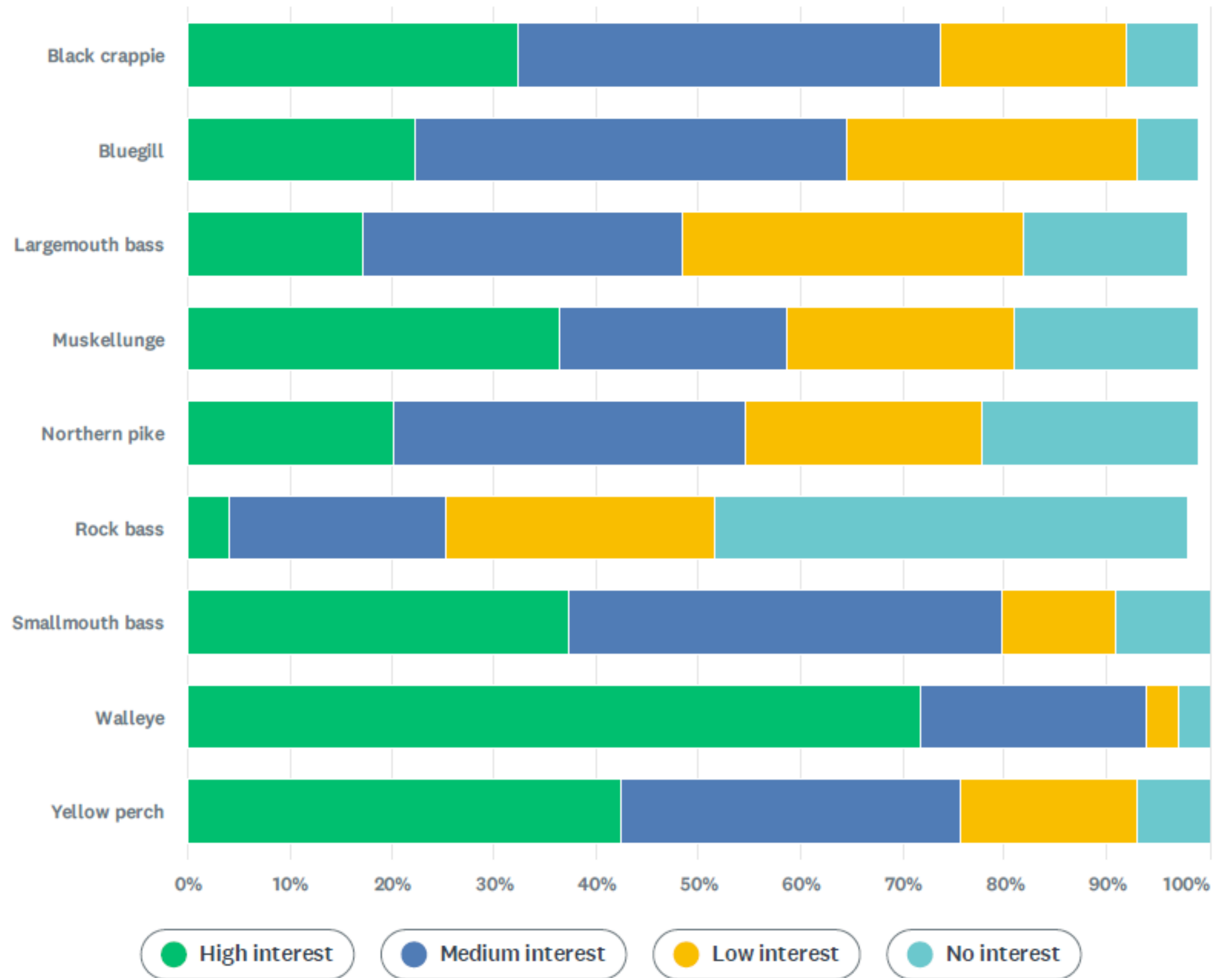
User Survey

How would you describe the current quality of fishing on Squirrel Lake?



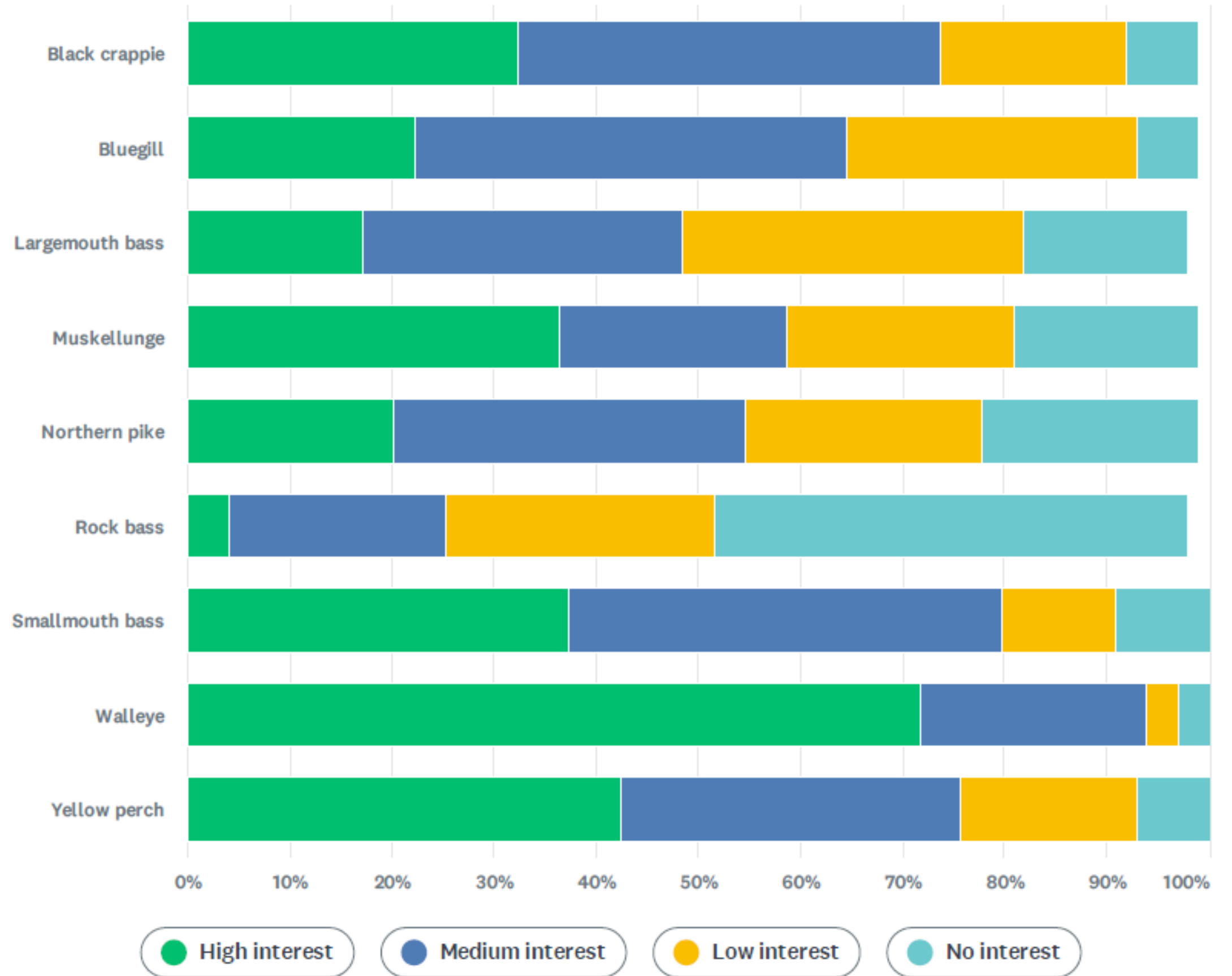
User Survey

Please indicate your level of interest in fishing for the following species on Squirrel Lake. Feel free to add a species if it does not appear in the list.



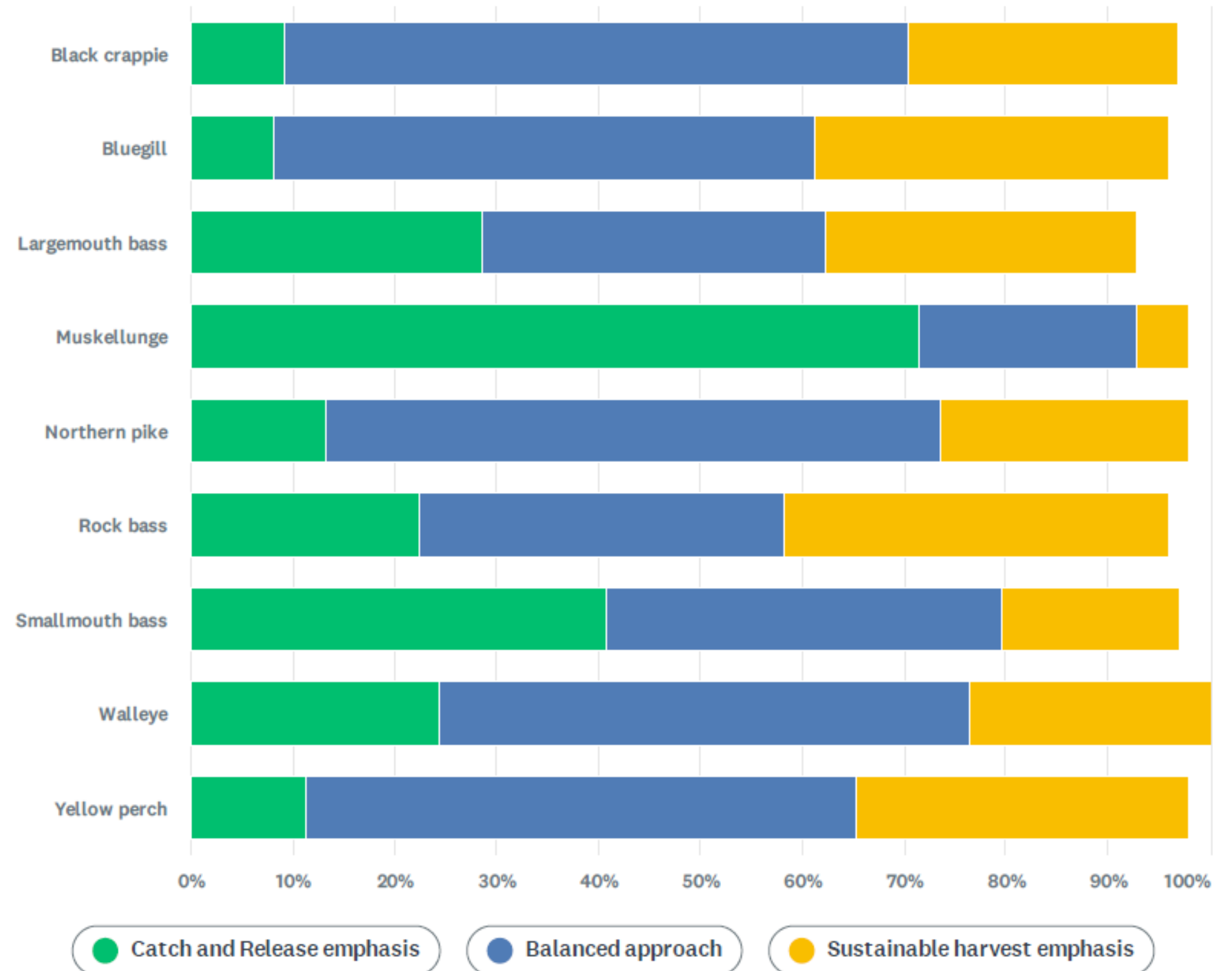
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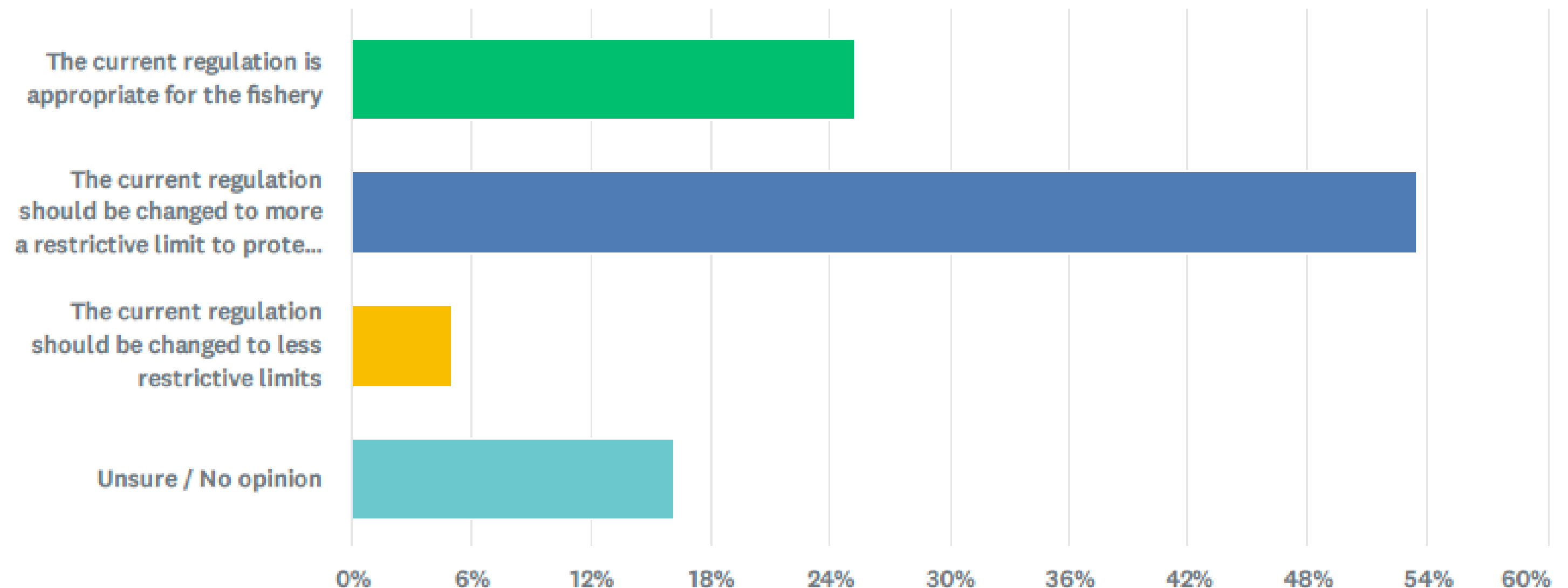
User Survey

Fish can be managed with more restrictive regulations that promote more release or less restrictive regulations that allow more harvest. What kind of fishing opportunities would you like to have on Squirrel Lake for each of the following species. Please note: A harvest-based management approach is still designed to create a sustainable population.



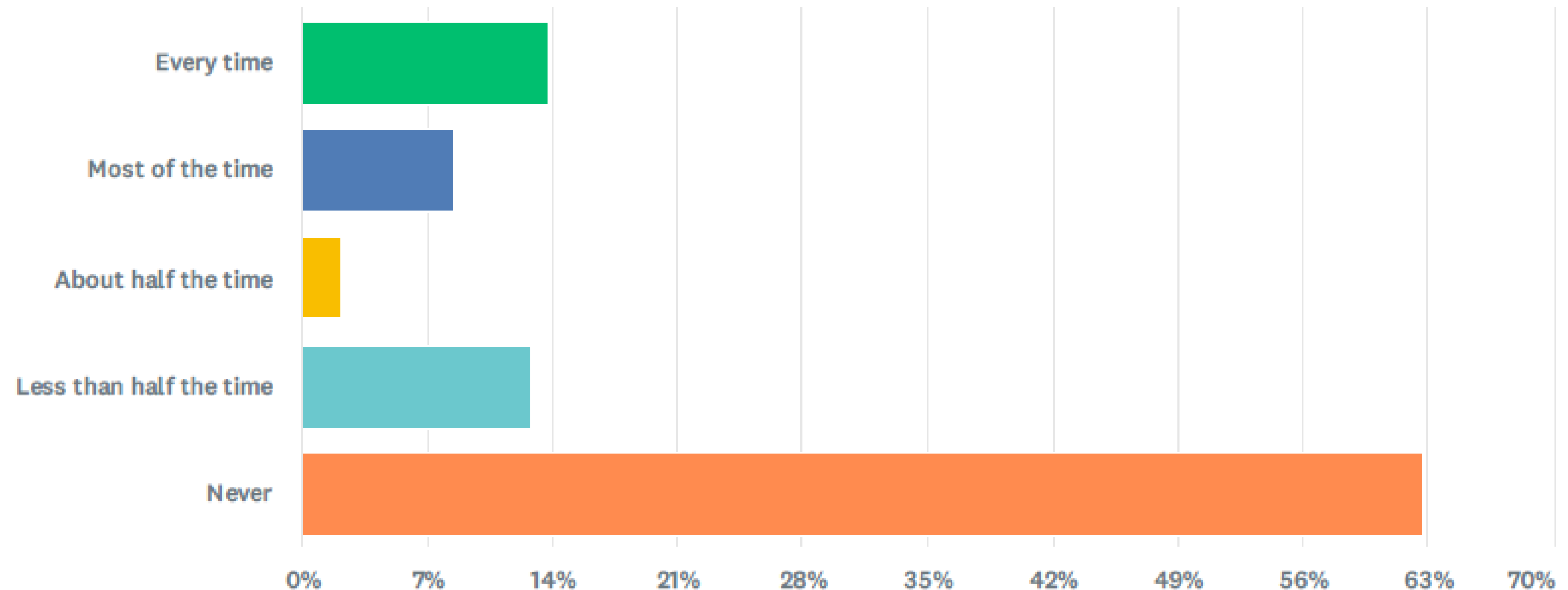
User Survey

Which of the following statements best reflects your view on the current walleye regulation for Squirrel Lake (no minimum length limit; maximum of one fish over 14 inches)?



User Survey

The Great Lakes Indian Fish and Wildlife Commission has a website encouraging anglers to report catches of tagged walleye. How often have you reported Floy tag information to GLIFWC or the DNR?



Plans for next spring

