

FISHES is a community-based research partnership across Canada which interweaves Indigenous knowledge and western sciences (notably genomics and fisheries science) to improve food security and fisheries stewardship in Northern Indigenous Communities.

This poster aims to share the most recent genomic results from the FISHES project in Eeyou Istchee for the Walleye (Sander vitreus), the Lake trout (Salvelinus namaycush) and the Speckled (Brook) trout (Salvelinus fontinalis)

Thanks to your help and support, tissue samples from over 4000 individual fish have been collected in Eeyou Istchee to date! For genomic research, we use these samples to investigate the DNA variation found within different species and to answer several questions:

- . What is the population (stock) structure of Speckled trout, Walleye and Lake trout within several large lakes and their tributary rivers?
- 2. How genetically different are populations breeding in different regions of each lake?
- 3. Do fish move between different rivers or lakes?
- 4. Which populations contribute most to the annual harvest for Walleye and Speckled trout in Mistassini and Mistasiniishish Lakes?



THE FISH OF EEYOU ISTCHEE What can DNA tell us?











