Northern Pike Suppression in Coeur d'Alene Lake: Using radio-telemetry to inform strategies

Jon Firehammer, Coeur d'Alene Tribe Fisheries Program

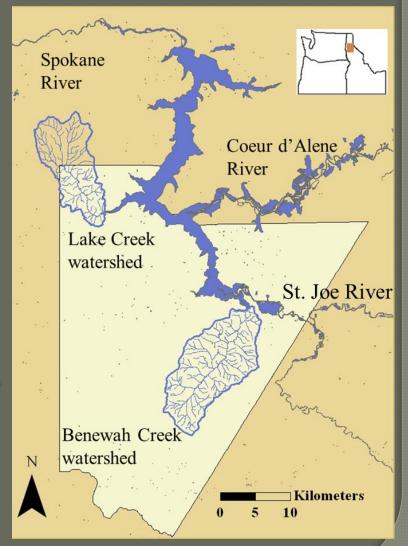


<u>Funding sources</u> BPA, Fish and Wildlife Program BIA, Invasive Species Program USFWS, Recovery Funding



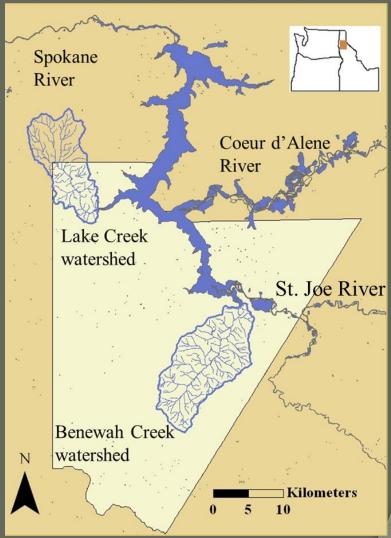
Northern Pike - A toothy problem in CDA Lake

- Natural, regulated lake in northern Idaho
- Supports adfluvial native trout populations
 - Westslope cutthroat trout (WCT)
 - Bull trout (BT)
- Northern pike (NP) introduced in mid-70's
 - Research study found NP to consume ~ 50% of WCT spawners destined for local streams (Walrath et al. 2015)
 - NP listed as primary threat in BT federal recovery plan (USFWS 2015)



Northern Pike - Localized suppression a potential strategy

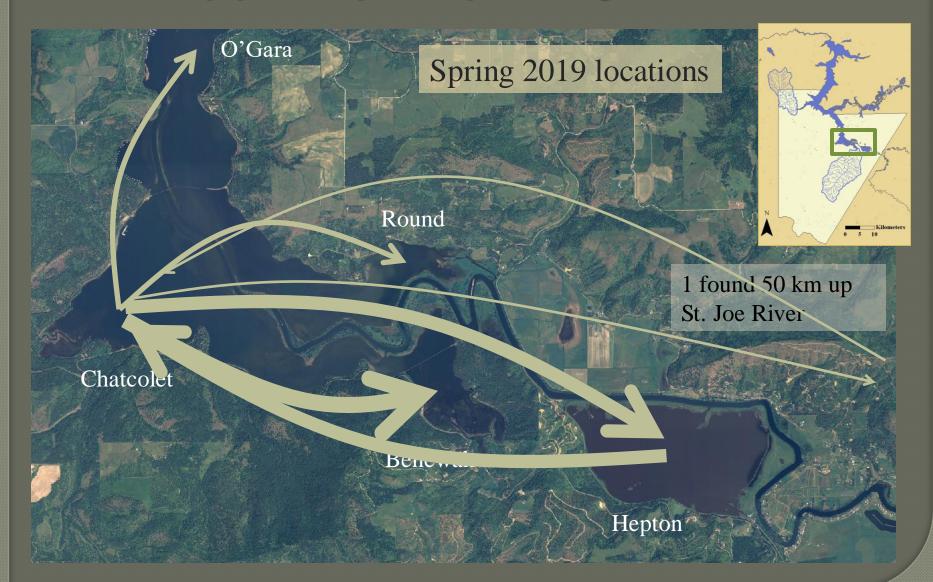
- Lake co-managed by Tribe and IDFG, two agencies with different perspectives on NP management
- Research study found NP predation on WCT to occur primarily in spring when both species overlap
- Tagging studies revealed minimal movement of NP among bays
 - Re-colonization of areas addressed by removal efforts may proceed slowly



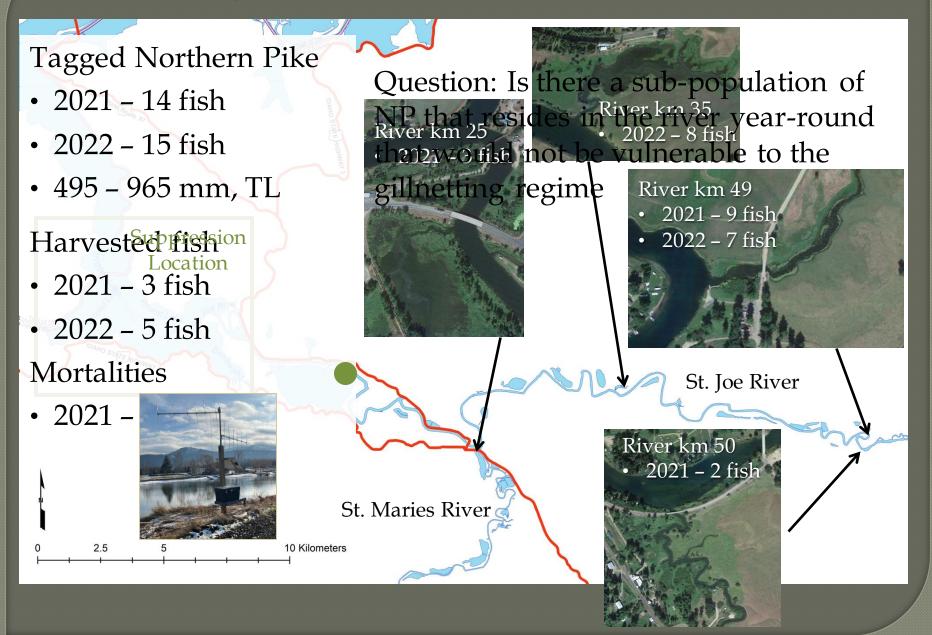
Northern Pike - Localized suppression a potential strategy



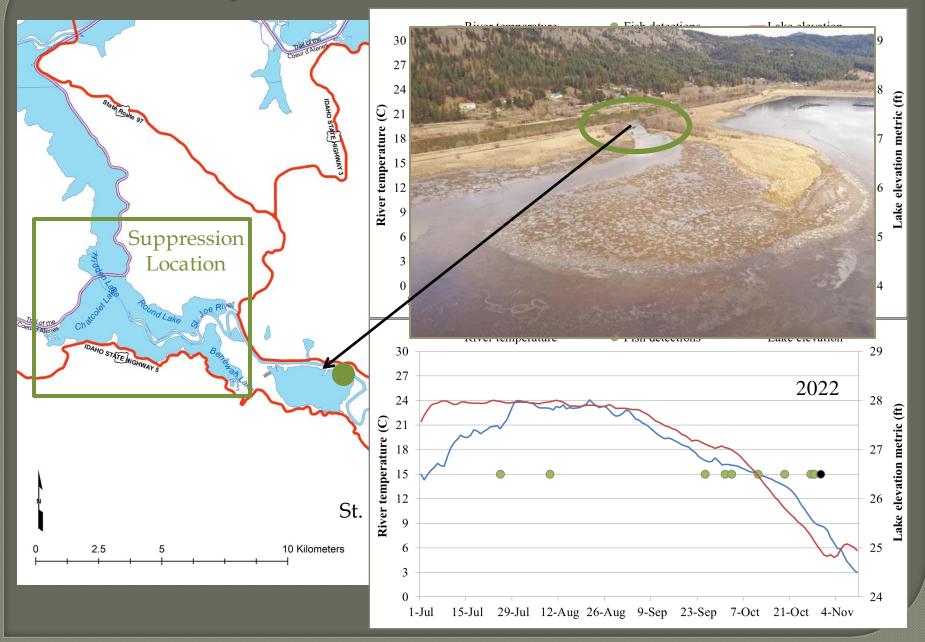
Radio-telemetry - Identify primary NP spawning centers



Telemetry informed seasonal movements



Telemetry informed seasonal movements



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Telemetry identified major spawning/production centers, one of which addressed by an unconventional measure
Though spawning habitats widespread, telemetry-informed behavior indicated vulnerability to a spatially-limited removal program