

Lake Roosevelt Northern Pike Update

Suppression and Research



Confederated Tribes of the Colville Reservation: Holly McLellan and Shay Wolvert

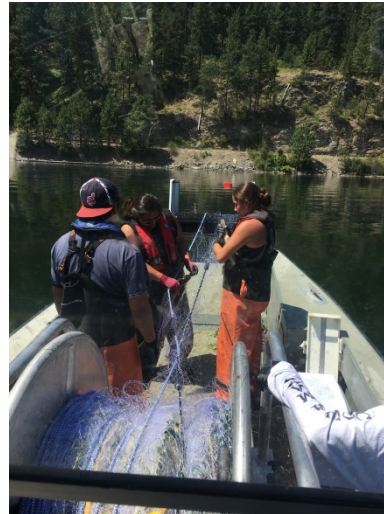
Spokane Tribe of Indians: Kaitlin Thurman

Washington Department of Fish and Wildlife: Bill Baker and Charles Lee

Presented to Columbia River Basin Team Meeting on December 5th, 2018

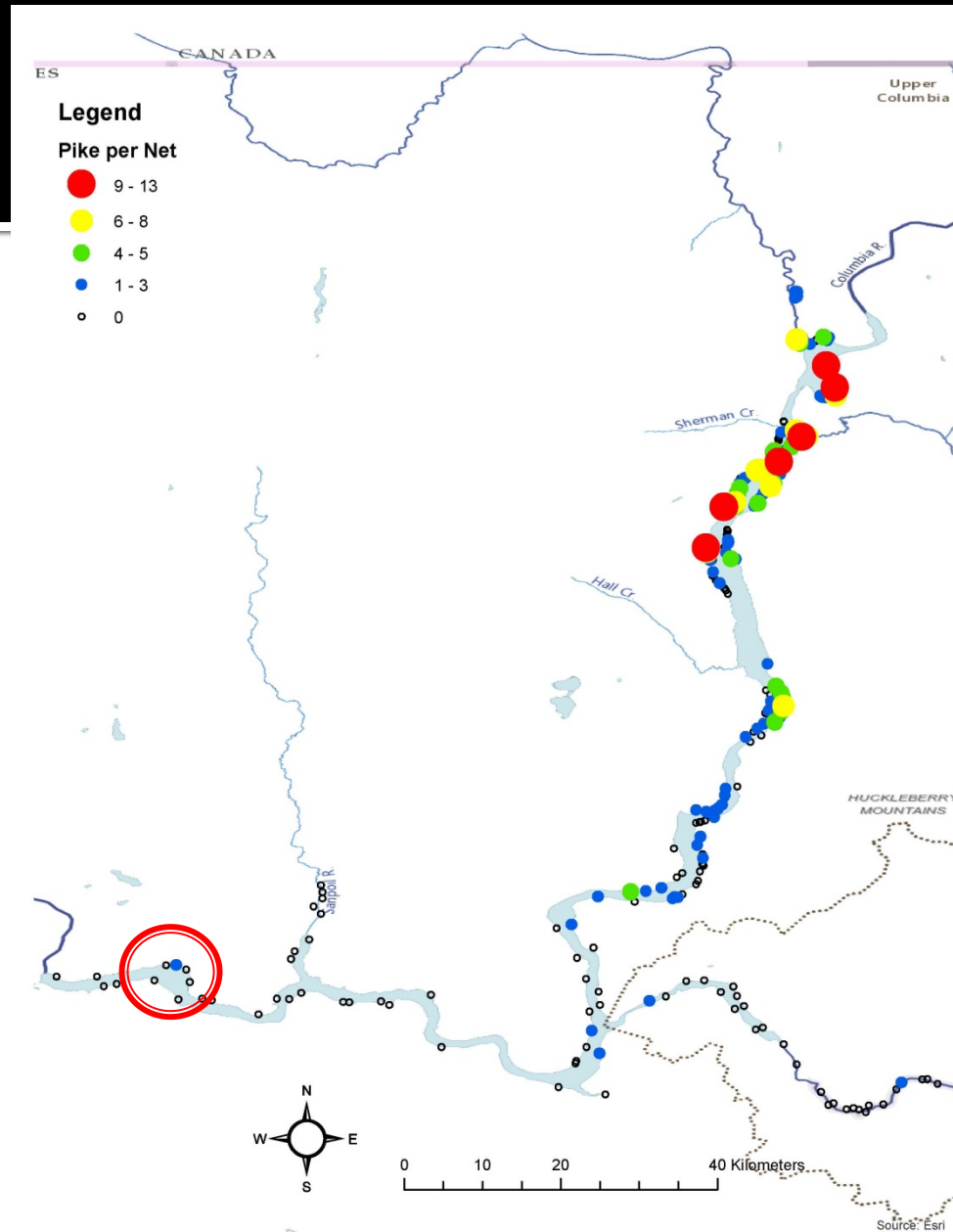
Suppression/Research Program

- Gillnet
 - Feb-May: target spawning fish
 - June–Nov: target other areas
- Boat electrofish/fyke net
 - Fall for juveniles
- Microchemistry
 - Determine spawning locations and new invasions
- eDNA monitoring
 - Monitor expansion
- DNA study
 - Determine origin of sources
- Reward Program \$10/head
- Abundance Monitoring: reservoir spatially balanced gillnet survey



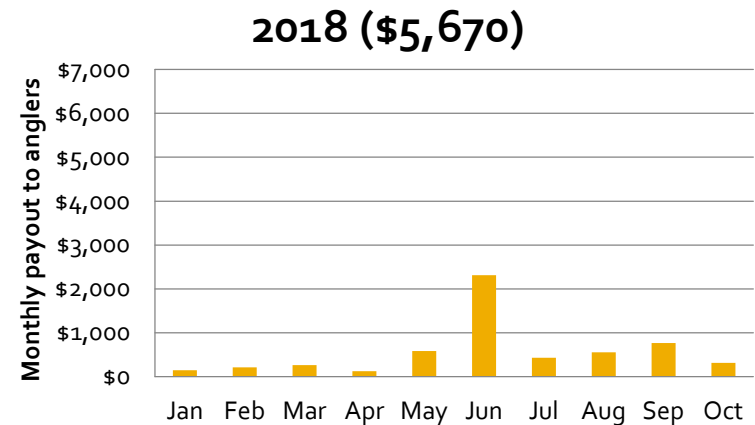
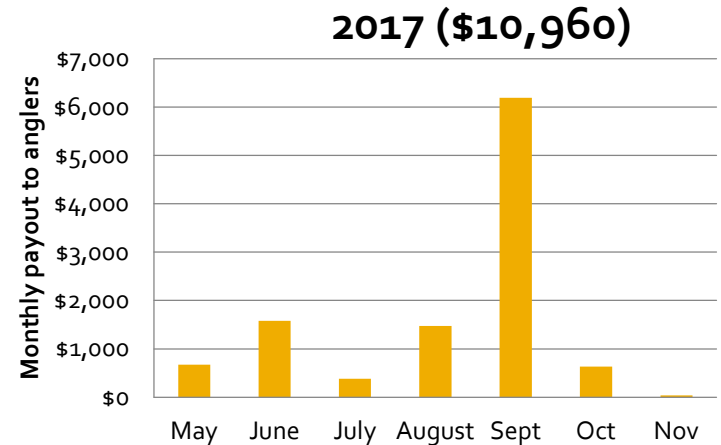
2018 Suppression

- In 2018, co-managers removed 2,620 Pike
- Removed 8,649 since 2015
- Majority of fish in upper section
- First Pike captured in Swawilla Basin
- Pike are starting to populate the Spokane River
- In 2019,
 - Increase effort in the Sanpoil / Spokane Arms to protect Redband/kokanee
 - Experiment with setlines



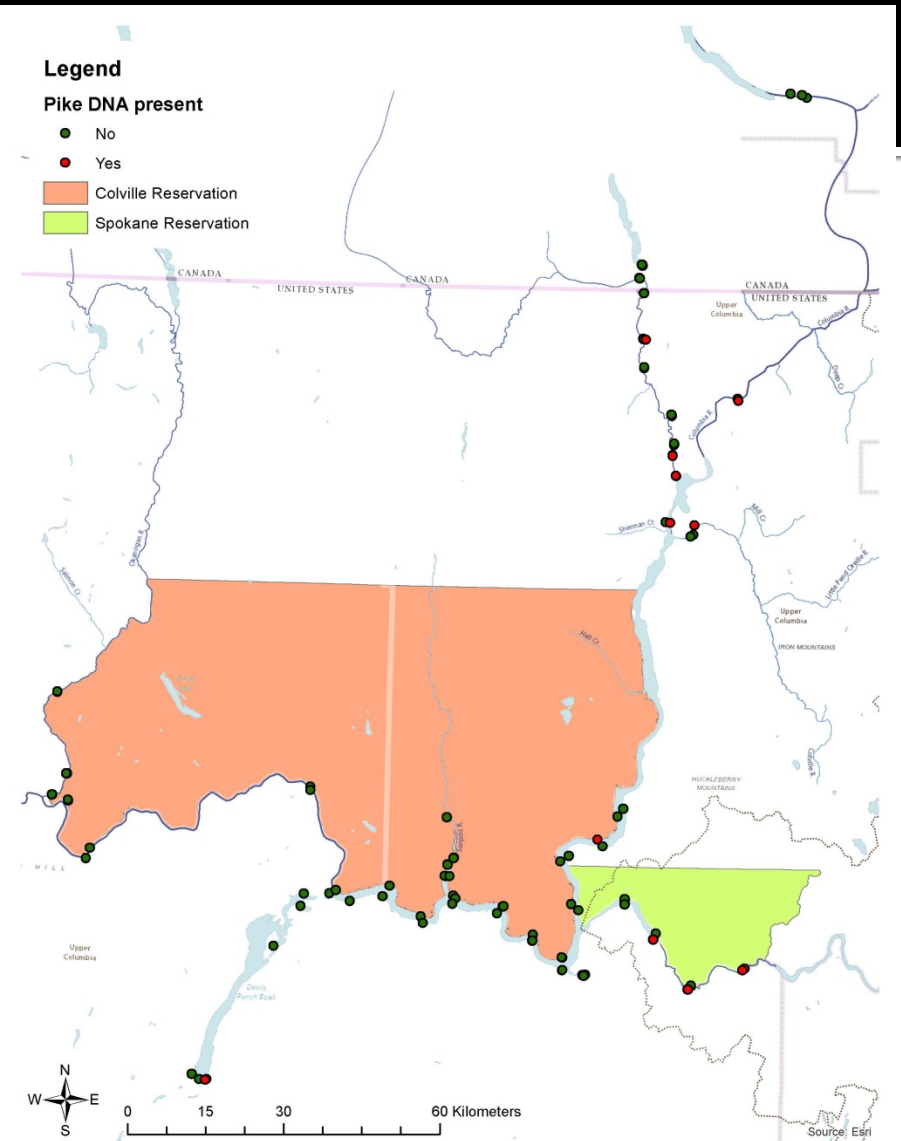
Reward Program

- Program started in May 2017.
- Handed out \$10,960 in 2017
- Less participation in 2018 with \$5,670 given away so far
 - Deep draw downs and fires
- In 2018, to 5 expanded dropoff



eDNA Monitoring

- Monitor 70 sites (May/Sept)
- DPUD monthly monitoring mouth Okanogan
- Positive hit in Banks Lake in spring, not fall sample
- Expansion upstream in Kettle River
- Expansion in Spokane River
- Results help adapt suppression program
- Continue monitoring in 2019

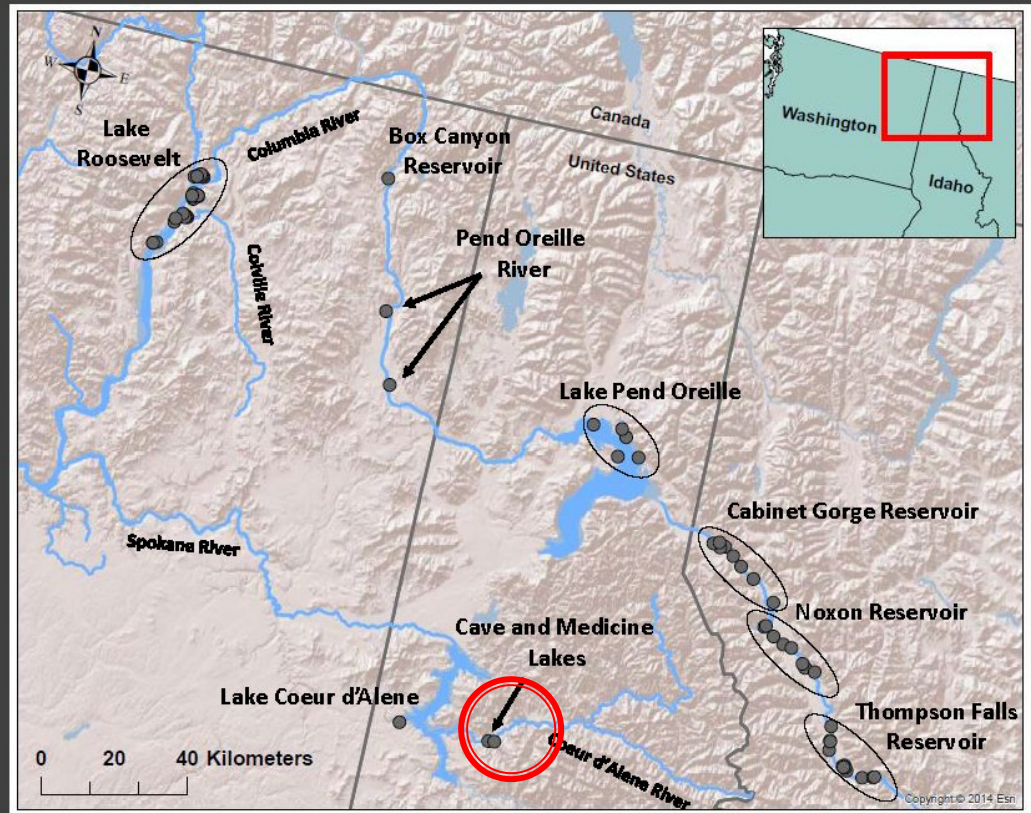


Map by: Shay Wolverter, Colville Tribes Fish and Wildlife 11-27-2018

DNA Study_ where did the Pike come from??

- Assume they came from upstream sources
 - Clark Fork River was the source
- After analysis, Roosevelt was populated with PO River fish
- However, 70% of PO River fish assigned to Cave and Medicine Lake in CDA drainage
- Meaning, Pike are coming from upstream sources AND humans moving them
- Need to increase public awareness
- It is not OK to have isolated fisheries for Pike

Collected samples from fish in 9 populations



Looking to the future

- Unlikely to stop the spread of Northern Pike throughout the basin
- Our goal is to reduce the amount going downstream to a slow trickle
- Will require us to keep the pressure on and continue aggressive removal in Lake Roosevelt
- Downstream partners need to be prepared



Questions?

