Invasion of Northern Pike in the Threemile Creek Drainage





November 14, 2018

Mat-Su Salmon Science Symposium

Presenter: Jillian Jablonski

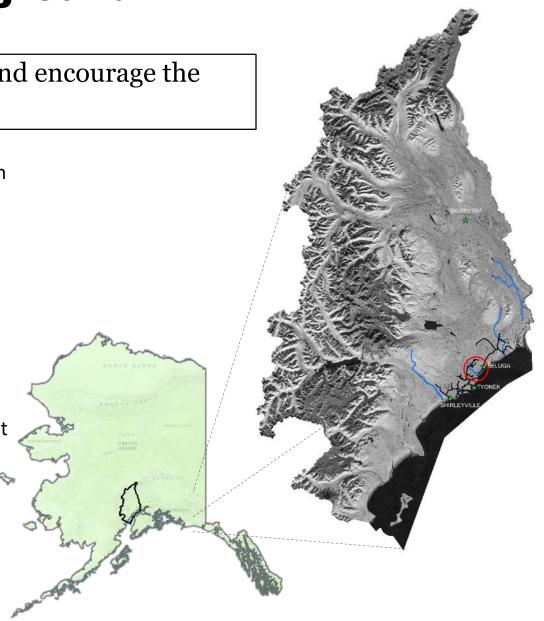
Program Director: Nicole Swenson



TTCD Background

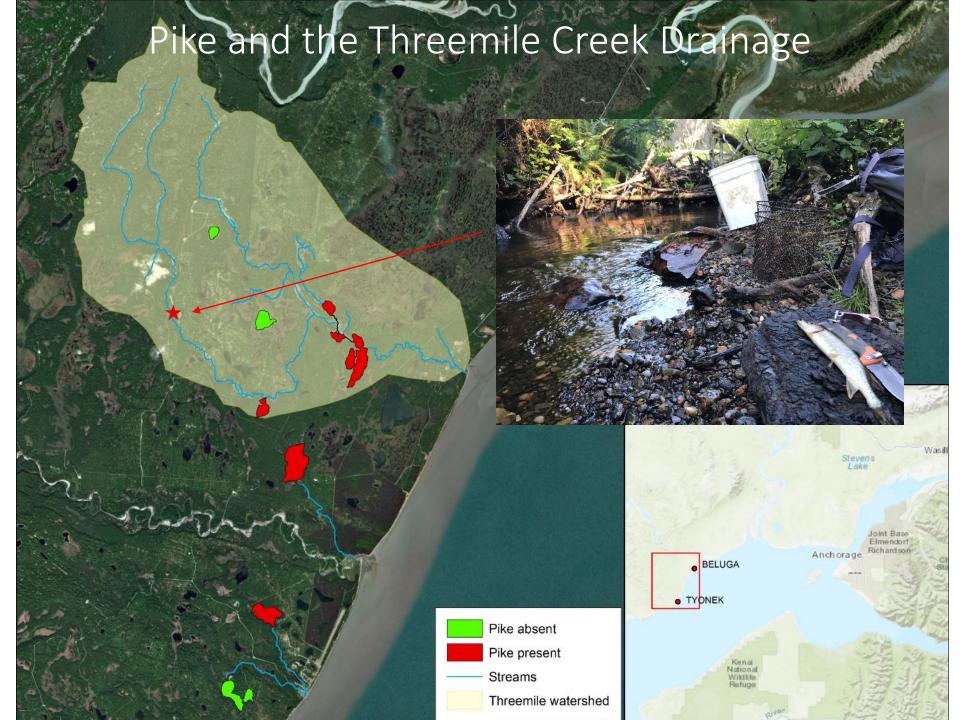
Mission: To conserve, enhance, and encourage the wise use of natural resources.

- Founded in 2005- First Tribal Conservation District in Alaska.
- Shares its boundaries with Game Management Unit 16B.
- The District covers a total of 6.6 million acres of land.
- Includes Tyonek, Beluga, Shirleyville, and Skwentna.
- Tyonek-Beluga corridor hosts three airstrips, ~80 miles of unpaved roads, and supports a permanent population of ~200 people.





- Invasive species that prey on juvenile salmonids
- Reduced salmon populations- West Cook Inlet
- "Subsistence is our agriculture"
- Threemile: Vector for further invasion





History of pike in Threemile

- Early 1990's: Approximate time of invasion
- 1997: Pike sport fishing regulations established for Threemile
- Since 2015, TTCD has been monitoring pike within its borders

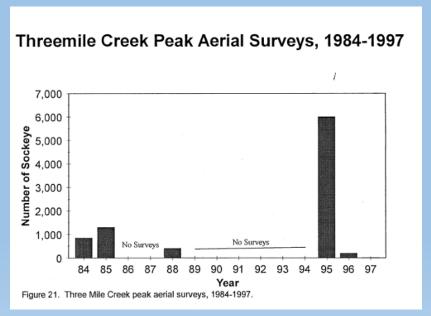


Image from Fox 1998



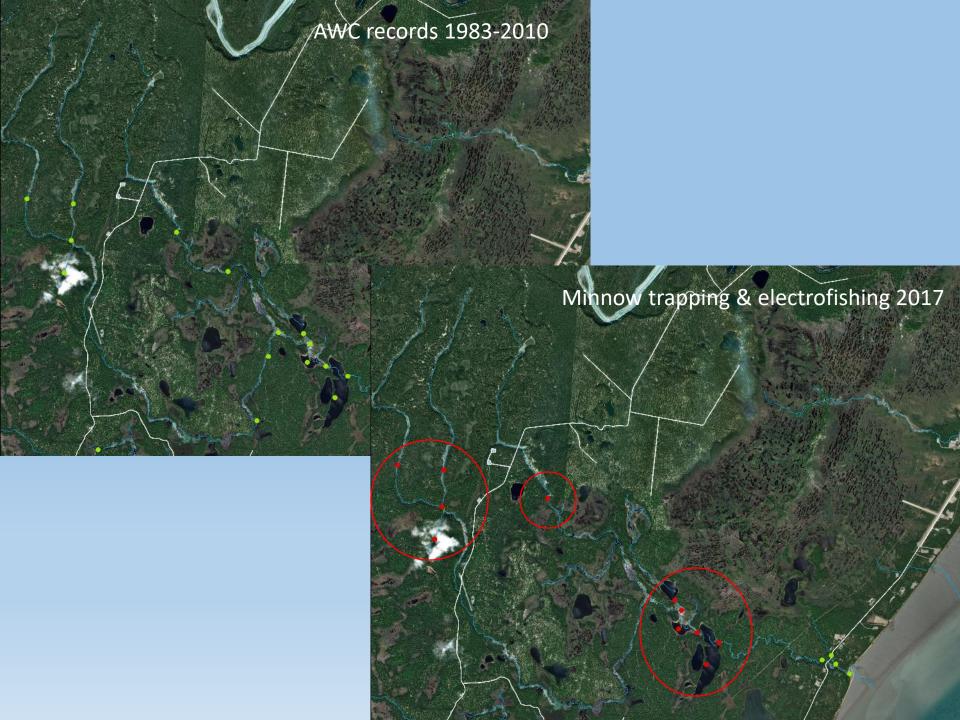
2015-2017

- Pike derbies (2015-2017)
 - 231 pike removed, mostly from Threemile Lake
- eDNA (2015)
- Threemile netting (2017)
 - 103 pike removed
 - No bycatch











2018: Population Estimate and Suppression

with









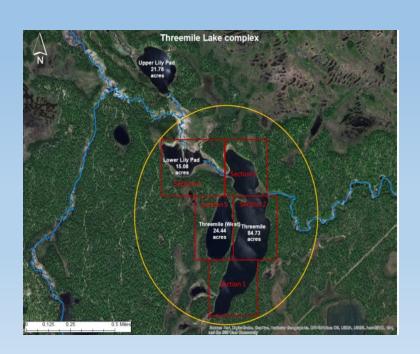


Methods

• Mark: June 1-10

• Mix: June 11-20

• Recap: June 21-30



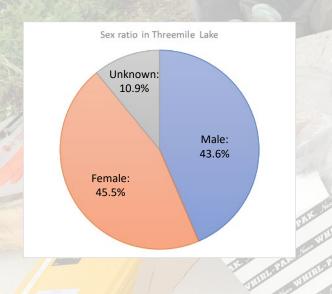


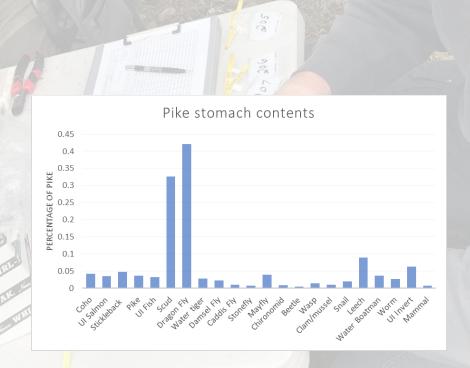


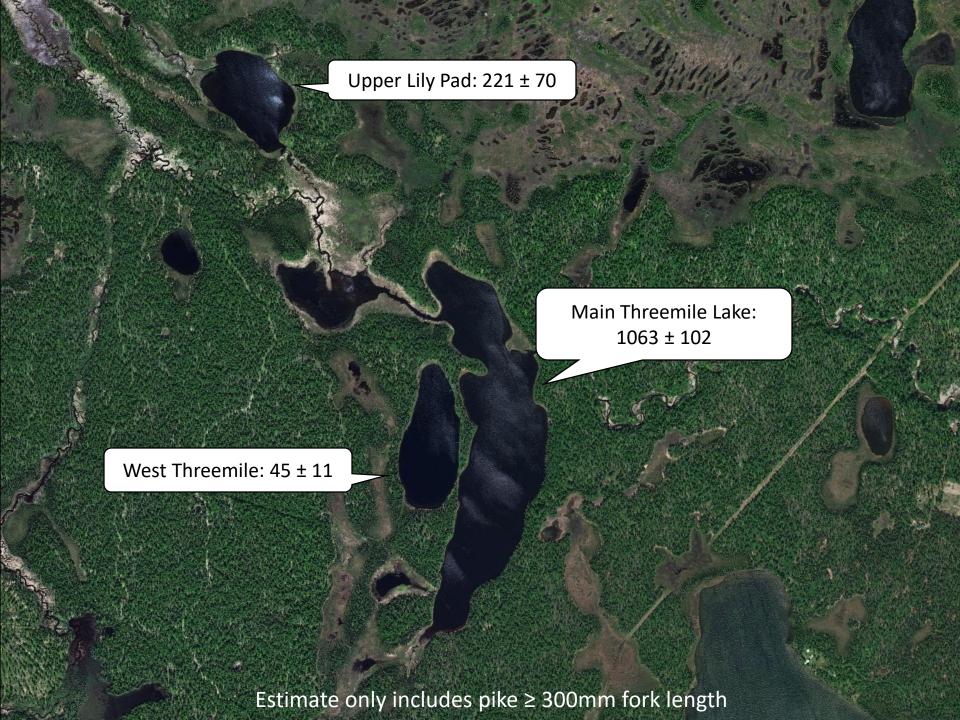


Results

- 1,246 pike dissected
- >1,300 total pike removed from the system
- Mean FL: 360.73mm (SE= 3.00) Range: 184-985mm









What will the future bring...?









Tyonek Tribal Conservation District

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Questions?









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Thanks to our supporters / collaborators: Cook Inlet Region Inc., Tyonek Native Corperation, Native Village of Tyonek, US Fish and Wildlife Service, Natural Resource Conservation Service, Alaska Department of Fish and Game, US Geological Survey, University of Alaska- Fairbanks, Cook Inlet Aquaculture Association, Cook Inletkeeper, Spernak Airways, Hillcorp Inc., Chugach Electric, Threemile Creek Services, Alien Species Control, Alaska Department of Natural Resources, The Great Land Trust, and our numerous individual supporters across Alaska.

[Fox, J. 1998. Northern District Sockeye Salmon Stock Status, 1998. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 2A98-01, Anchorage.]