

# Lake Roosevelt Northern Pike Update

## Suppression and Research



Photo Credit Charles Joseph  
43 in and 28 pounds

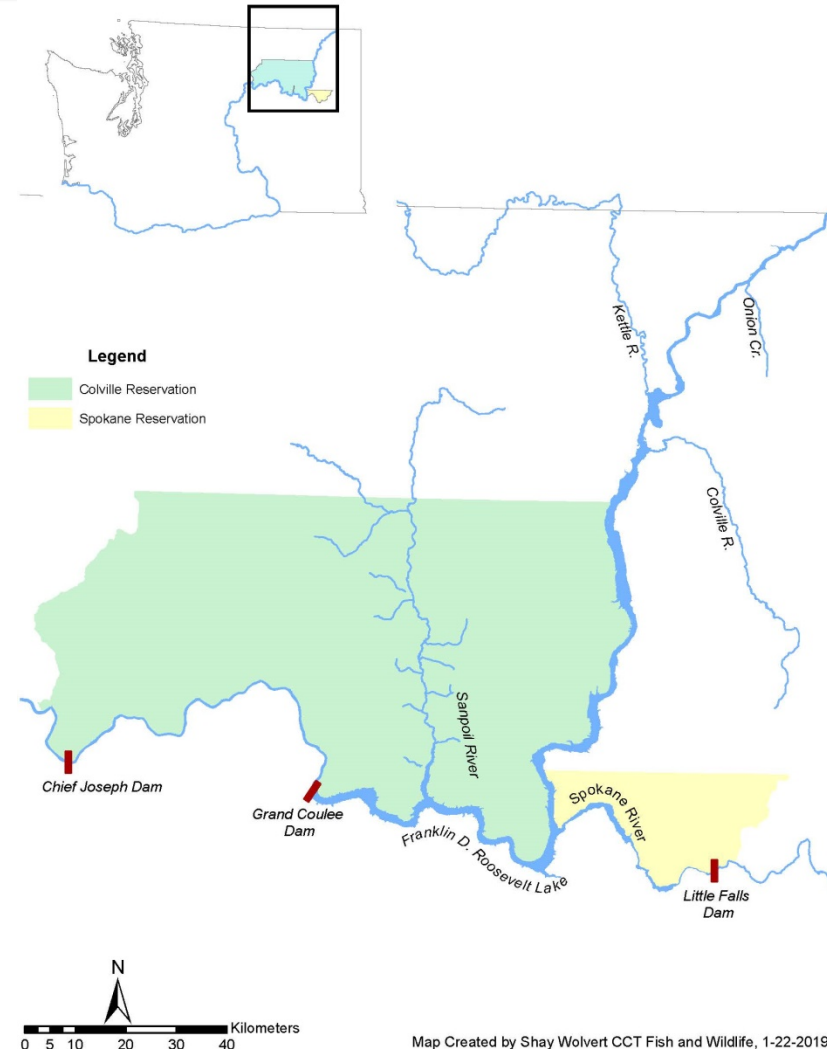


**Confederated Tribes of the Colville Reservation:** Holly McLellan and Shay Wolvert  
**Spokane Tribe of Indians:** Alix Blake and Justin Seibert  
**Washington Department of Fish and Wildlife:** Charles Lee and Tyler Parsons

*Presented to Columbia River Basin Team Meeting on June 4, 2019*

# Lake Roosevelt

- 240 km long reservoir
- Annual spring drawdown 6-15 m
- Fishery co-managed by Colville Tribe, Spokane Tribe and WDFW
- Sanpoil, Spokane, Kettle rivers all major tributaries



# Northern Pike Suppression Work Plan

*Pilot work began in 2015, full plan in 2017*

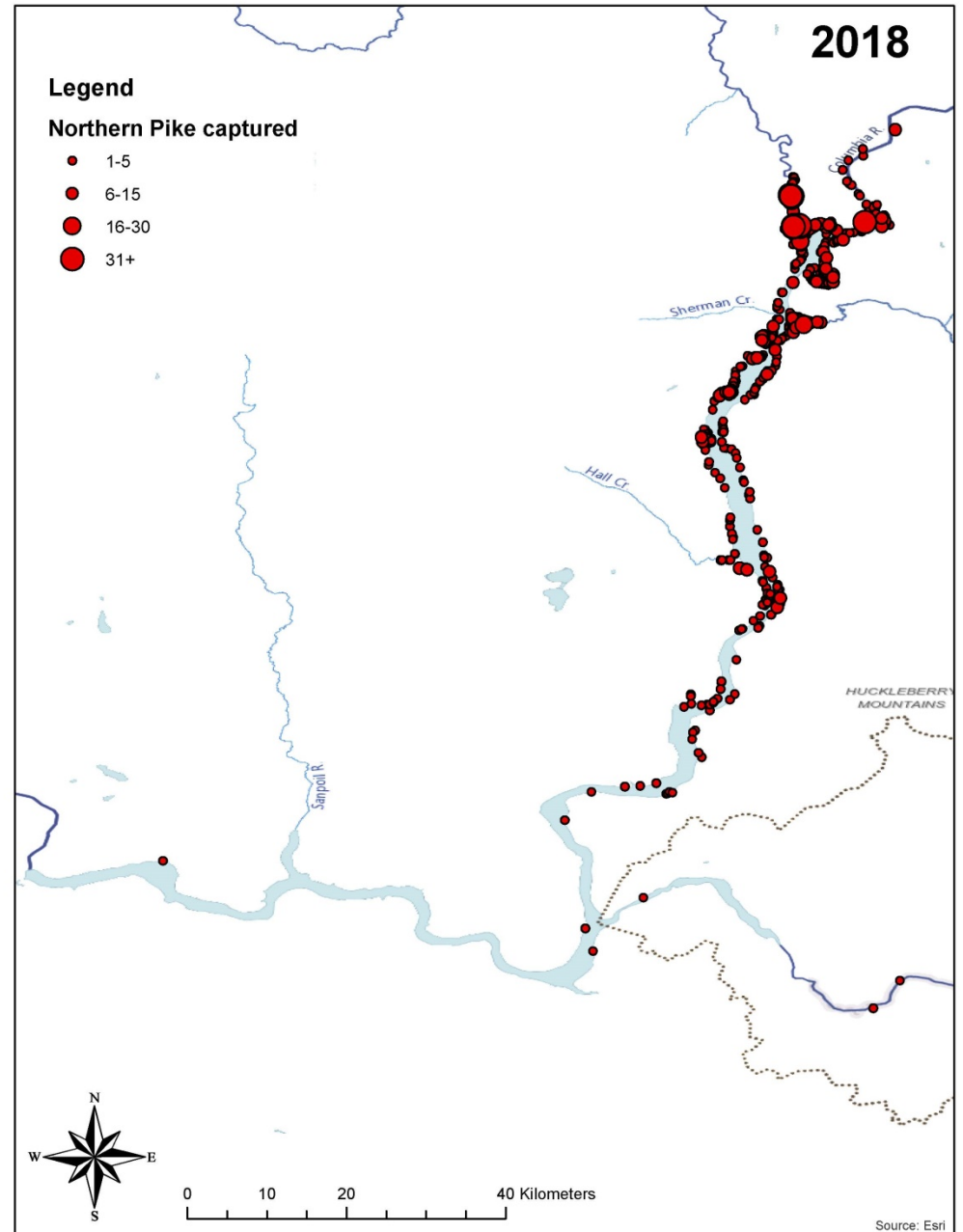
Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Suppression</b>												
Gillnetting (CCT/STI)		X	X	X	X	X	X	X	X	X		
Electrofishing (CCT/STI)								X	X	X		
Fyke/Seine Netting (CCT/STI)						X	X					
Reward Program (CCT)	X	X	X	X	X	X	X	X	X	X	X	X
<i>*Setlines (experiment) -2019</i>							X	X				
<i>* All Hands On Deck Effort -2019</i>					X							
<b>Research/ Monitoring</b>												
Monitoring survey (WDFW)			X							X		
Microchemistry (CCT)									X	X	X	X
<i>*Larval Light Traps (CCT) -2019</i>												
eDNA Study (CCT)					X				X			
Harvest via Creel (STI)	X	X	X	X	X	X	X	X	X	X	X	X
Public Outreach (ALL)	X	X	X	X	X	X	X	X	X	X	X	X
<b>Preventative Measures</b>												
<i>*Aquatic invasive plant removal - 2018</i>									X			

# Expansion

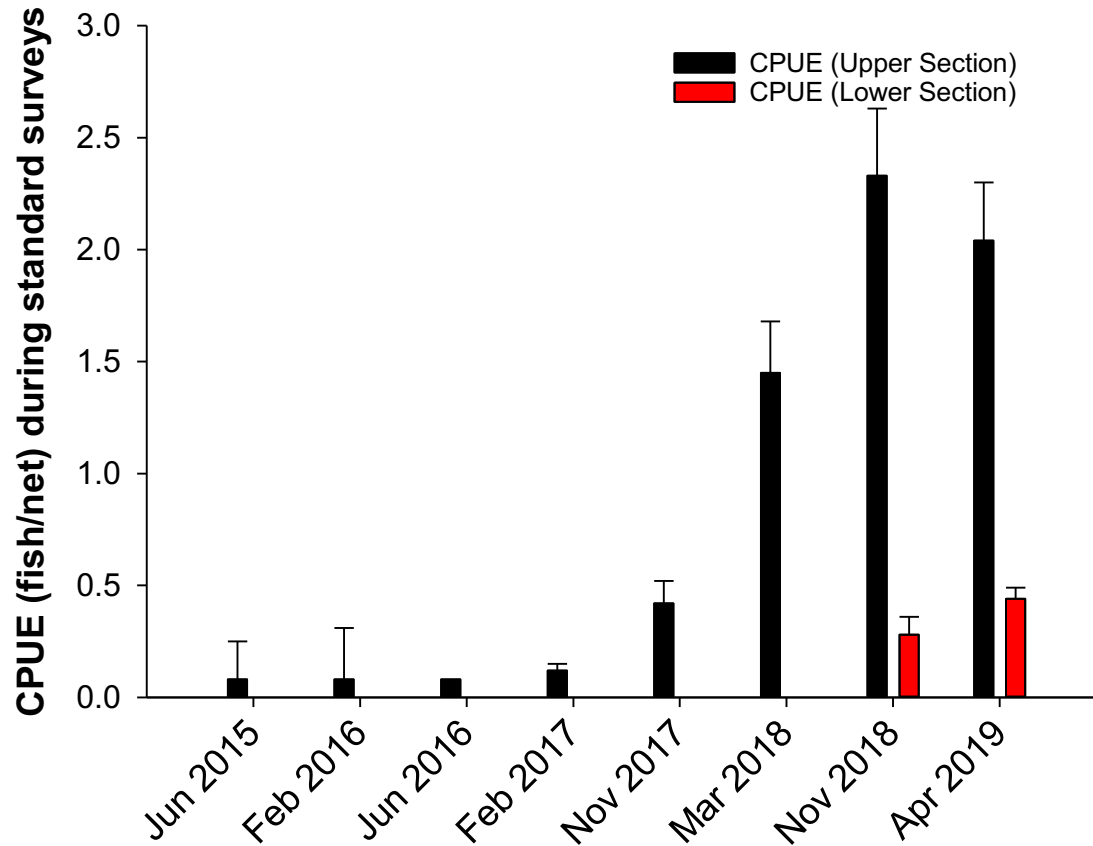


Photo Credit: Branditt West

Predator bite on kokanee

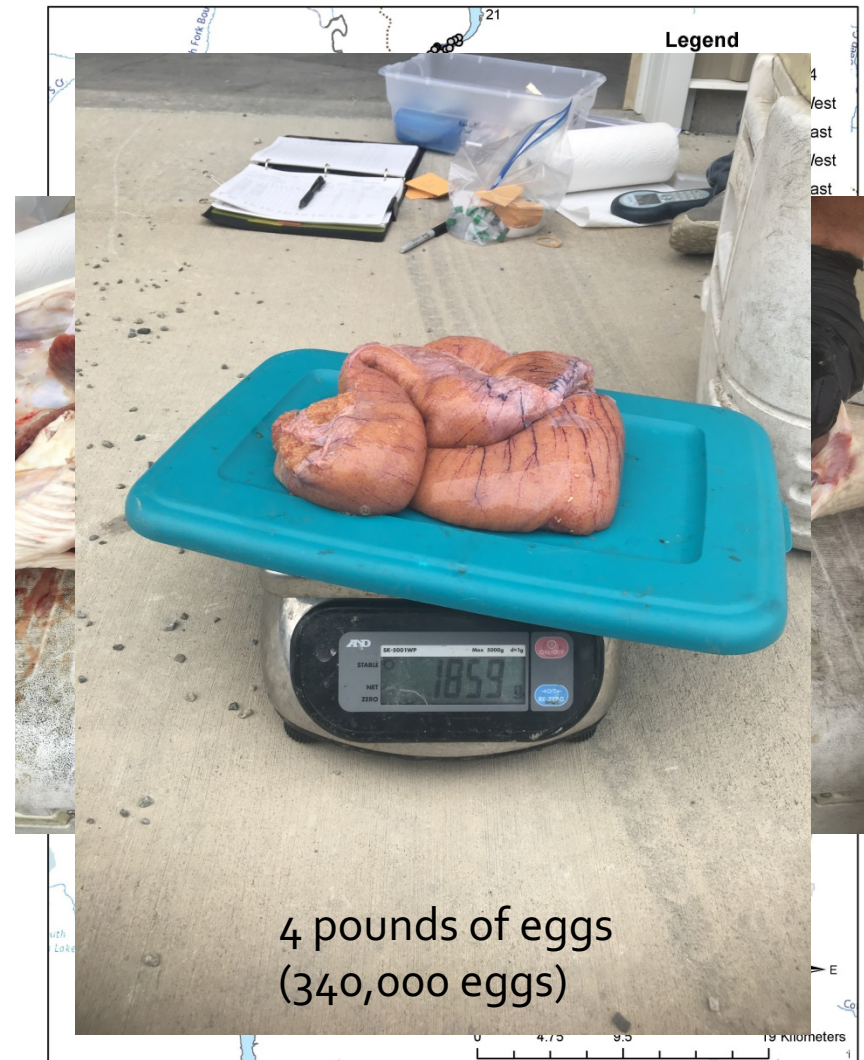


# Standard Reservoir Surveys



# All Hands on Deck Suppression

- Primary pike spawn time early May in Roosevelt
- Fish are shallow (<20 ft) and in spawning congregations
- Regional partners collaborated on a week on long intense suppression effort May 6-10
- Prior to hatchery net pen releases (500,000 trout)
- **10 boats, 5 agencies, set 475 nets and removed 439 Pike**
  - 220 females and approximately 2.2 million eggs



# Northern Pike Catch

*Multiple size classes captured*

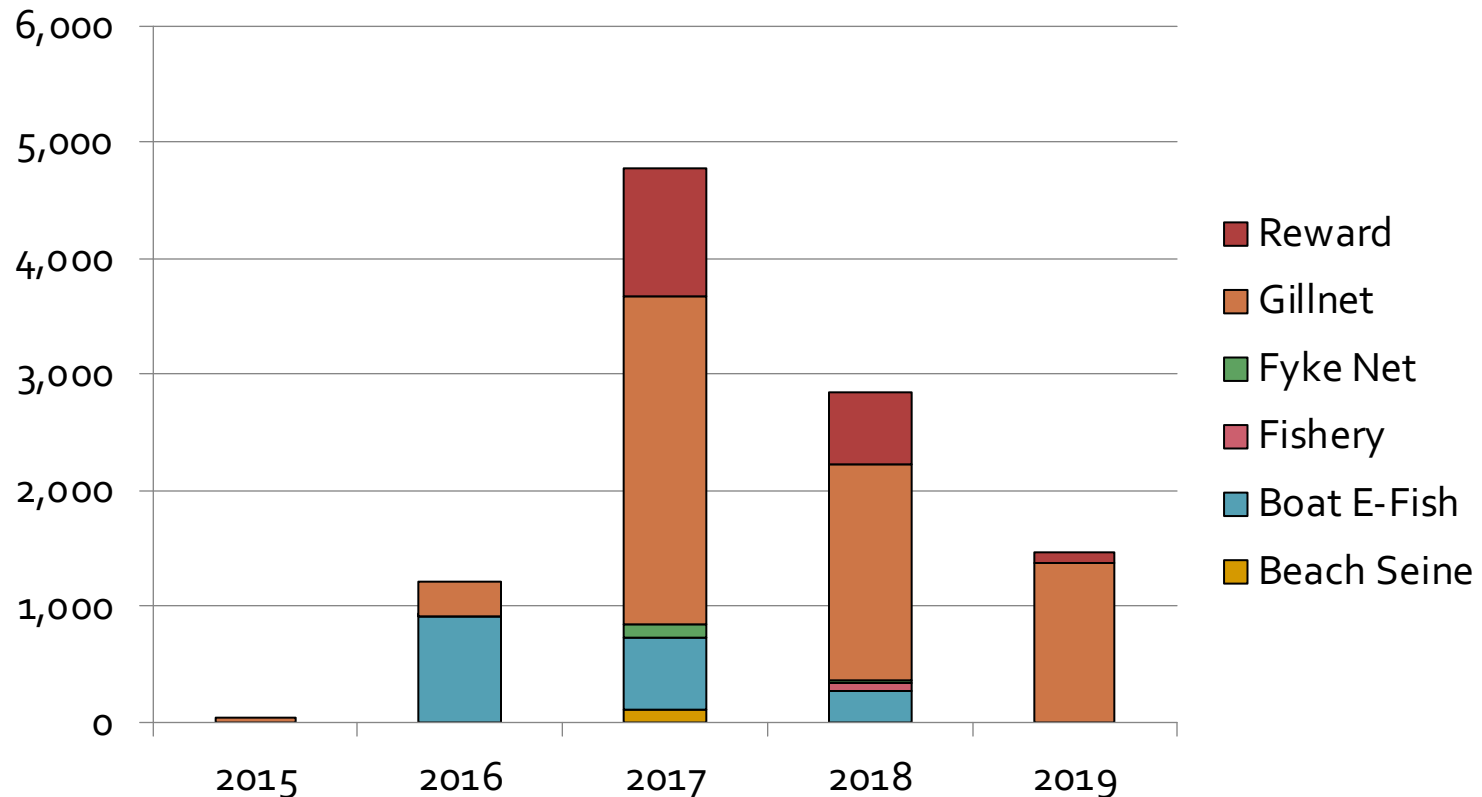


*Loose eggs from female about to spawn*



# Overall Suppression Summary

- Since 2015, **10,341** Northern Pike have been removed from Lake Roosevelt
- 62% of those via gillnetting and 17% via Reward Program





# Setline Experiments

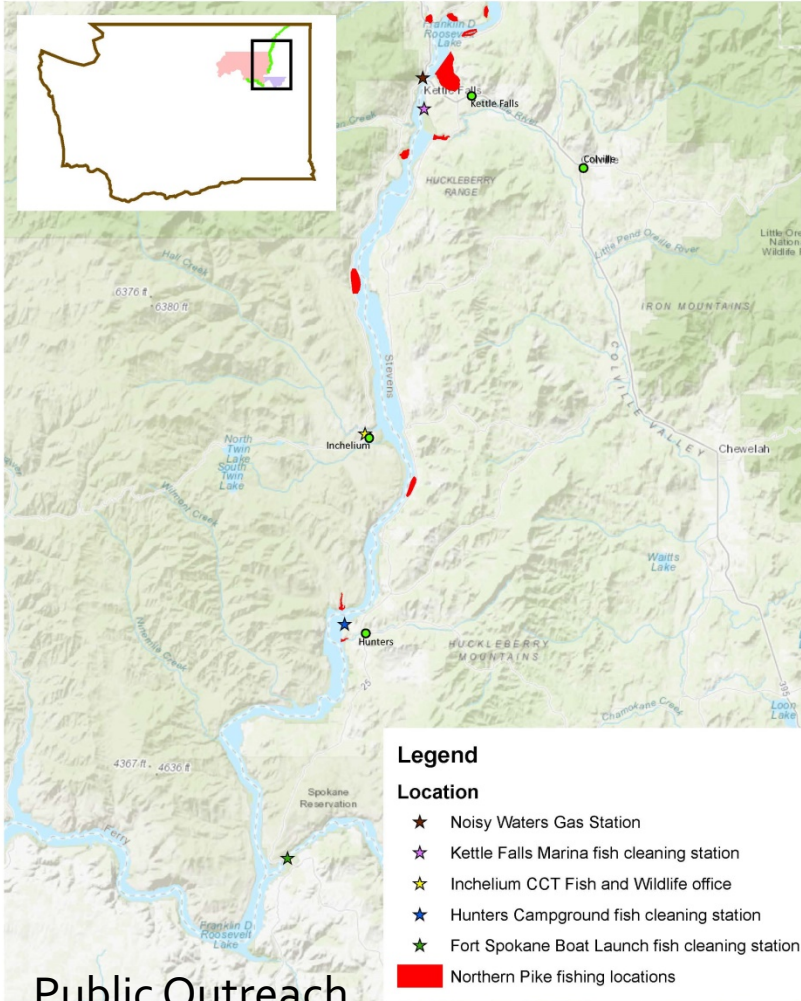


- Limited use of gillnets in the anadromous zone
- Gear type to use is shallow water, limited boat access
- Does not catch White Sturgeon, Burbot, or suckers
- Setlines
  - Fish off the bottom
  - Steel leader
  - Proper hook size
  - Proper bait



# Reward Program

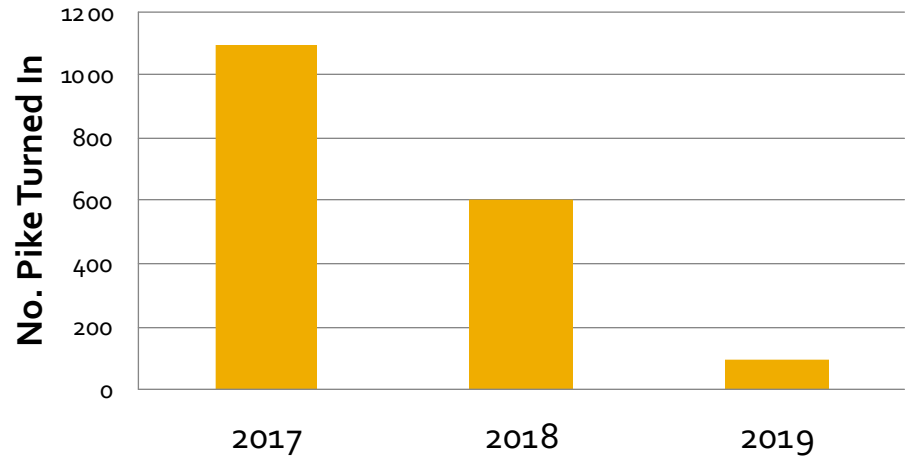
Northern Pike Fishing Locations



Public Outreach

Map by Shay Wolvert, Colville Tribes Fish and Wildlife, 9-4-2018

Reward \$17,890



# Ongoing Program

- Research/Monitoring/Suppression
  - Reservoir wide surveys (May/Oct) - WDFW
  - Microchemistry research (Spokane River Pike) - PNNL
  - eDNA monitoring (72 sites) (DPUD, USFWS)
  - DNA study – Dr. Carim (IDFG, Coeur 'd Alene Tribe, Muckleshoot Tribe)
  - Public Outreach – ongoing all partners
  - Need to secure funding



Native Burbot in Pike stomach



Juvenile N. Pike

# Questions?

- Many Thanks



Washington Department of Fish and Wildlife

