

2018 Sockeye Salmon Movement Study

Tobias Kock, Brian Saluskin, and Richard Visser

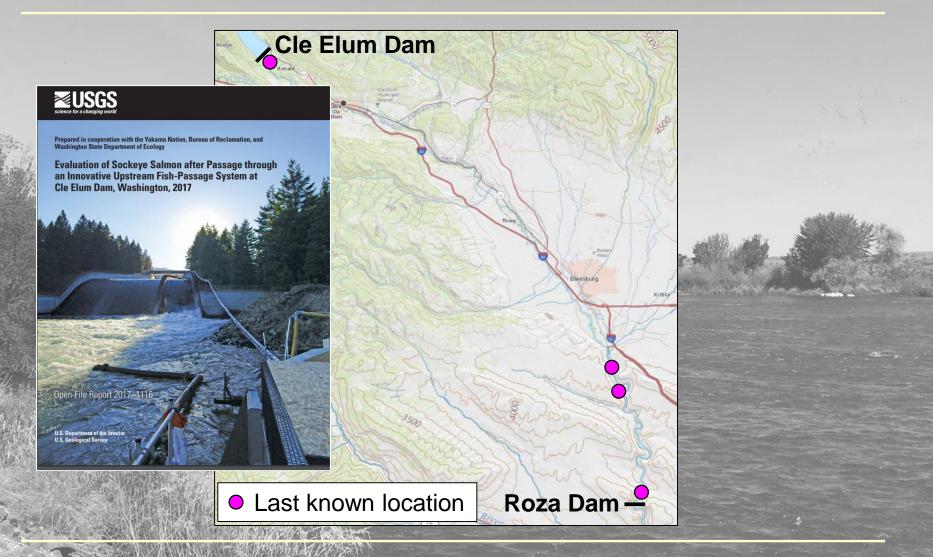
Migration Survival of Chinook Salmon, Steelhead & Lamprey in the Lower Yakima River

Tobias Kock, Joel Llamas, Michael Porter, Patrick Monk, Russell Perry

June 13, 2019

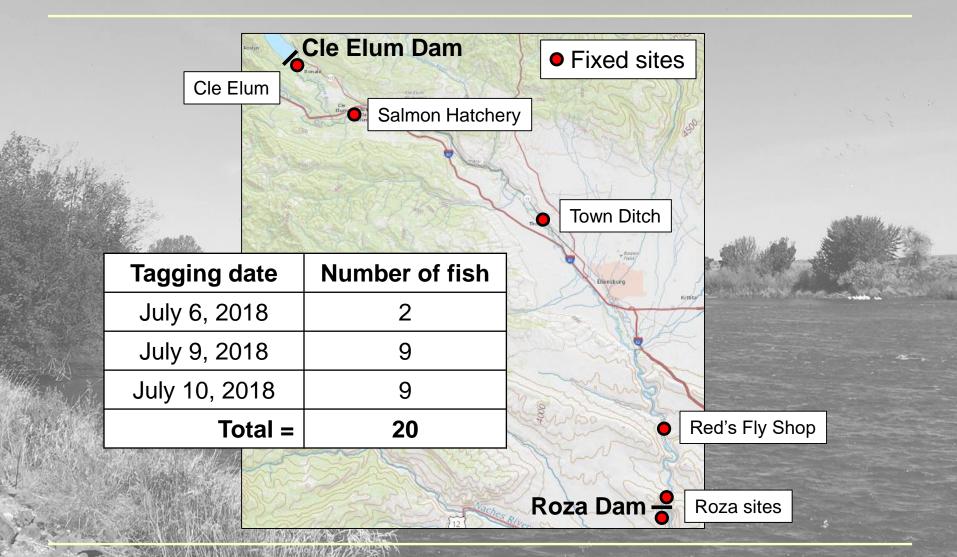
U.S. Department of the Interior U.S. Geological Survey

Roza Dam to Cle Elum Dam: 2017



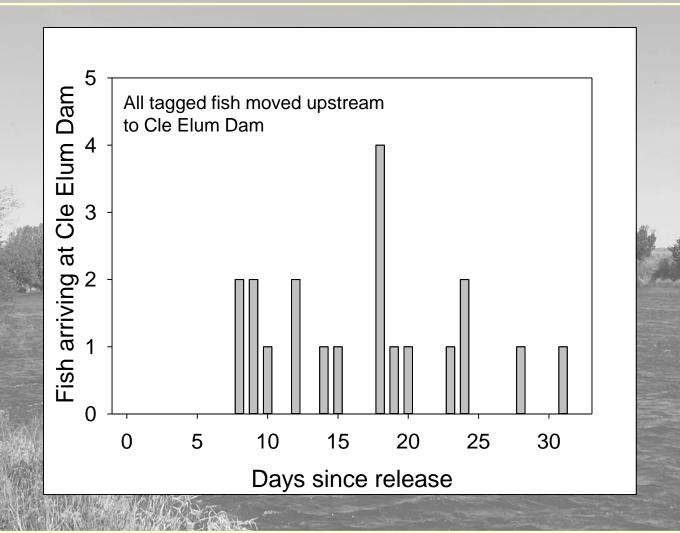


Roza Dam to Cle Elum Dam: 2018





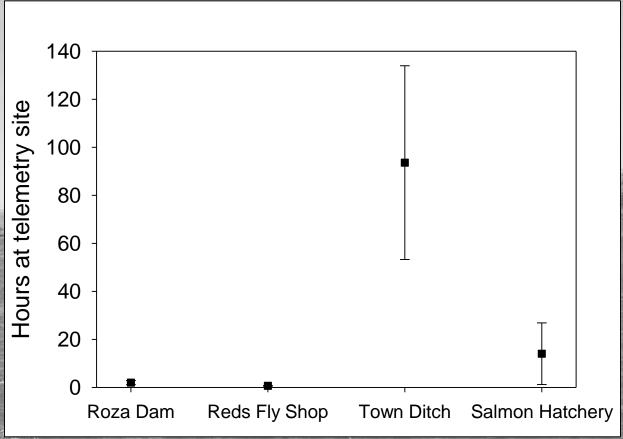
Roza Dam to Cle Elum Dam: 2018





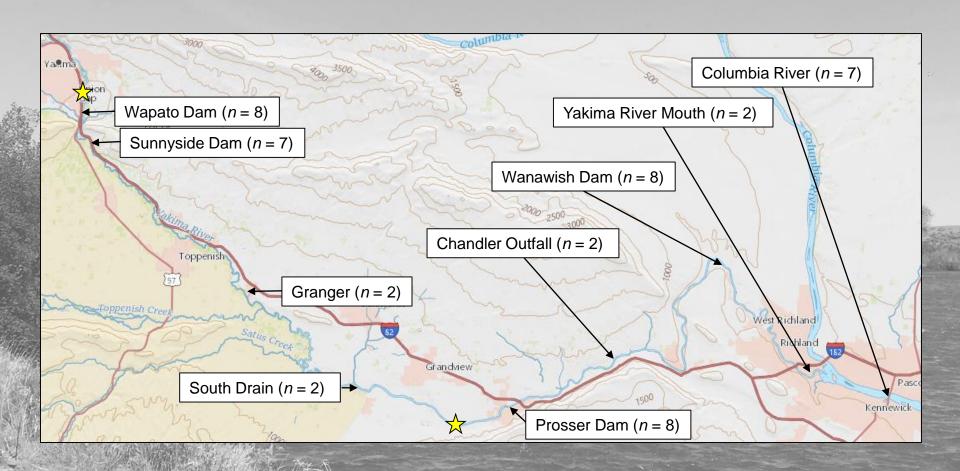
Delay at Town Ditch







Lower River Study: Detection Sites





Lower River Study: Tagging and Release

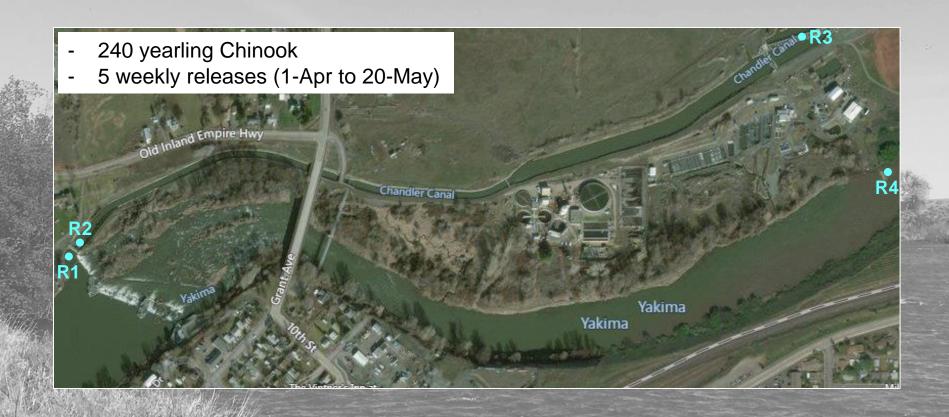
Species	2018	2019
Yearling Chinook salmon	429	590
Steelhead	313	350
Subyearling Chinook salmon	344	393
Lamprey	97	132
Adult smallmouth bass		10







Chandler Canal Paired Releases



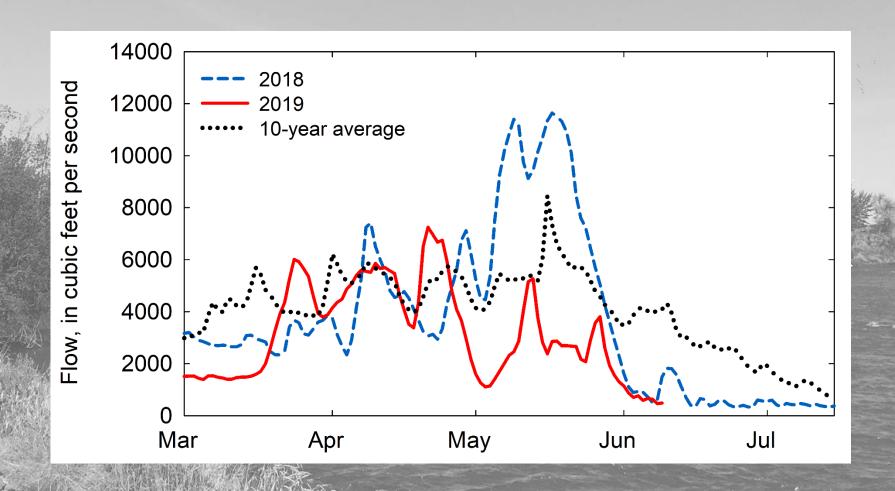


Smallmouth Bass Releases



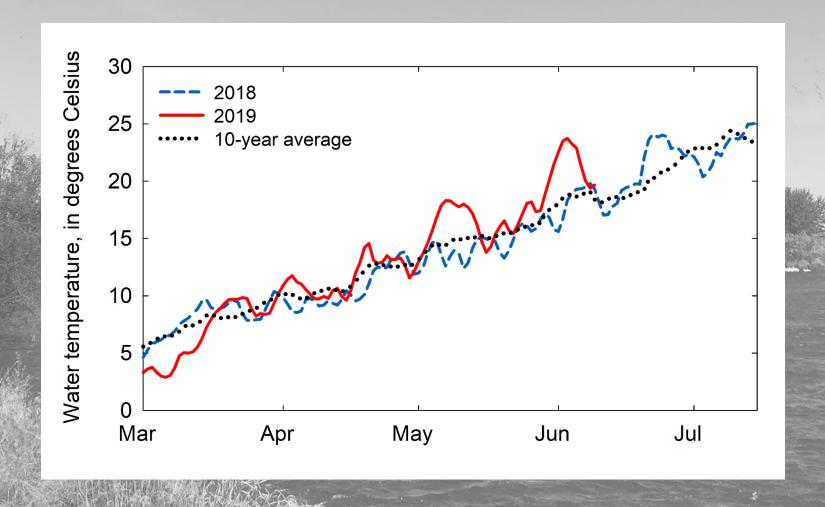


Discharge





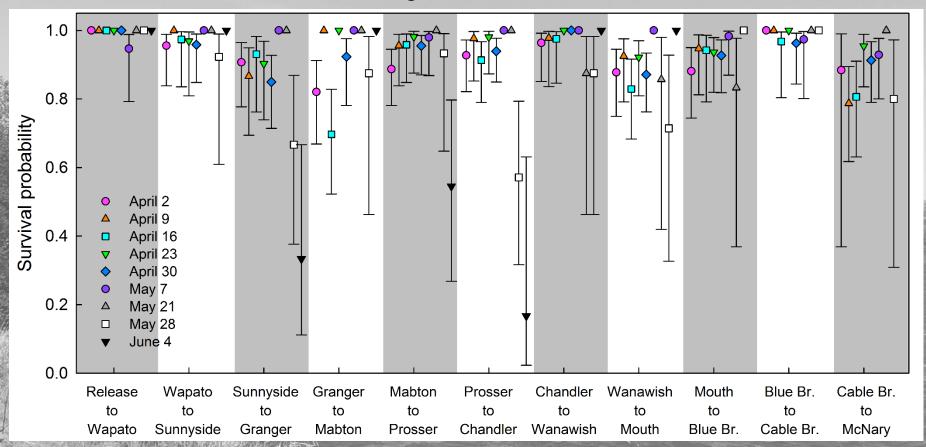
Temperature





2018 Survival Estimates

Yearling Chinook salmon

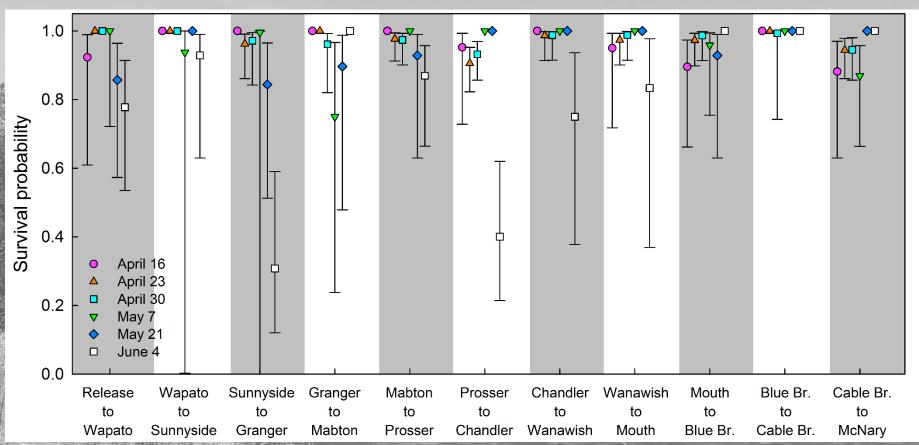


Preliminary results do not cite



2018 Survival Estimates



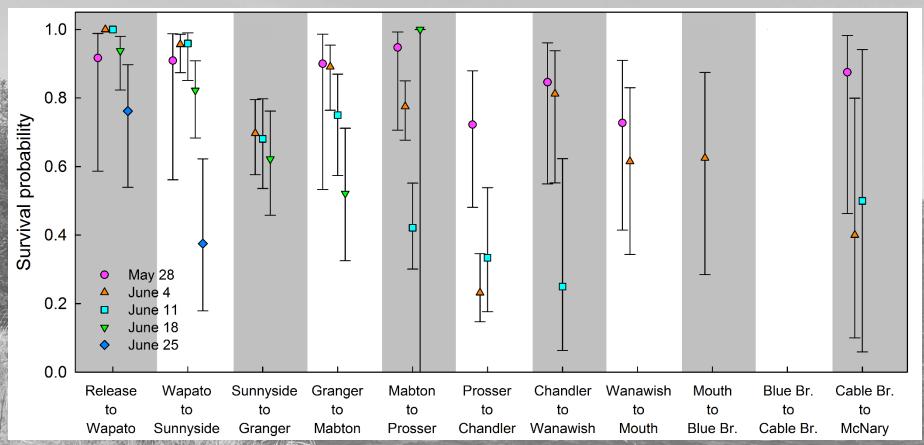


Preliminary results do not cite



2018 Survival Estimates

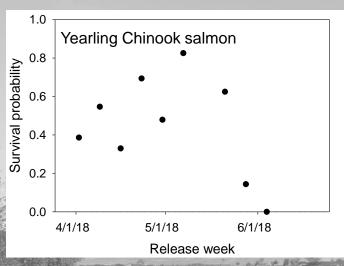
Subyearling Chinook salmon

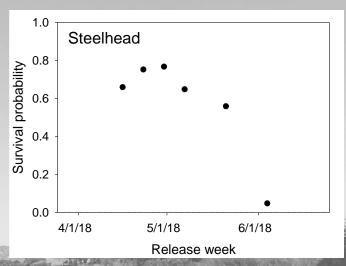


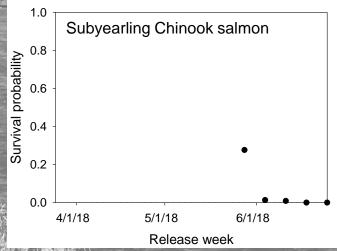
Preliminary results do not cite



Cumulative Survival to McNary Dam

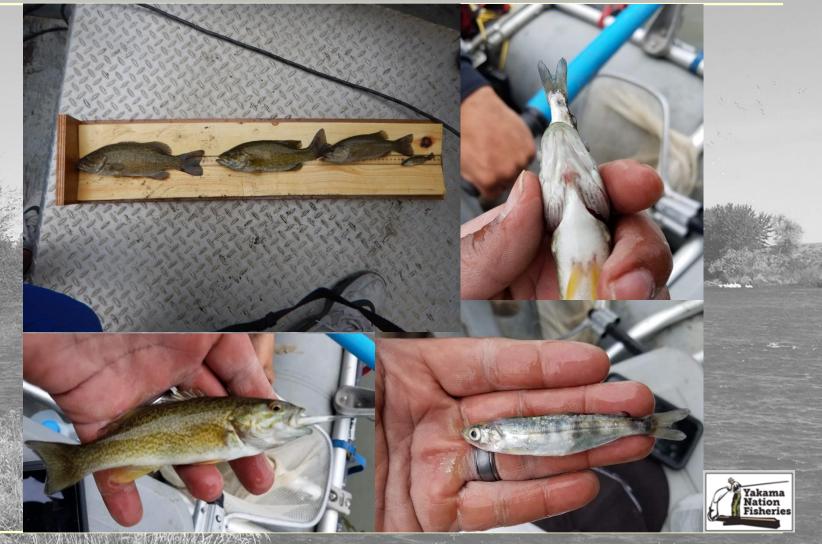






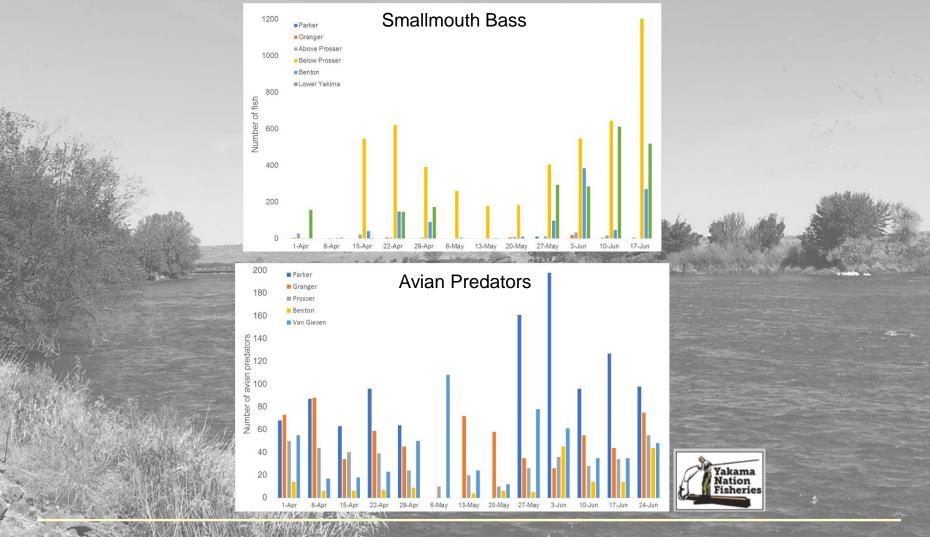


Predator Monitoring Results



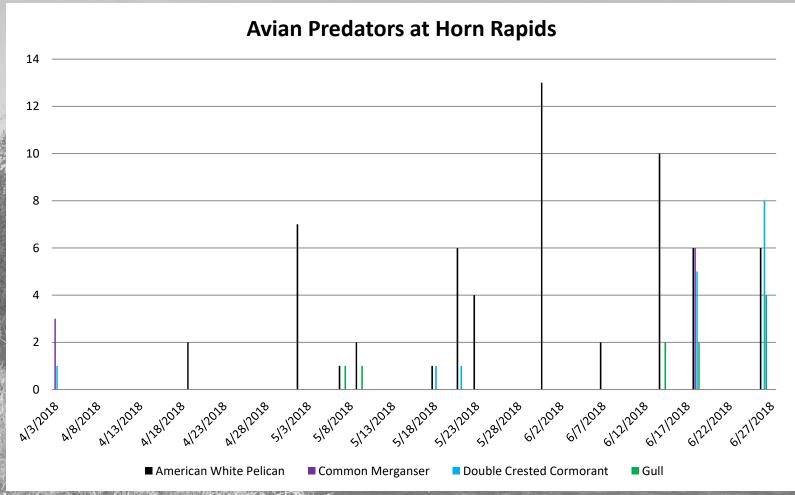


Predator Monitoring Results





Horn Rapids Hot Spot





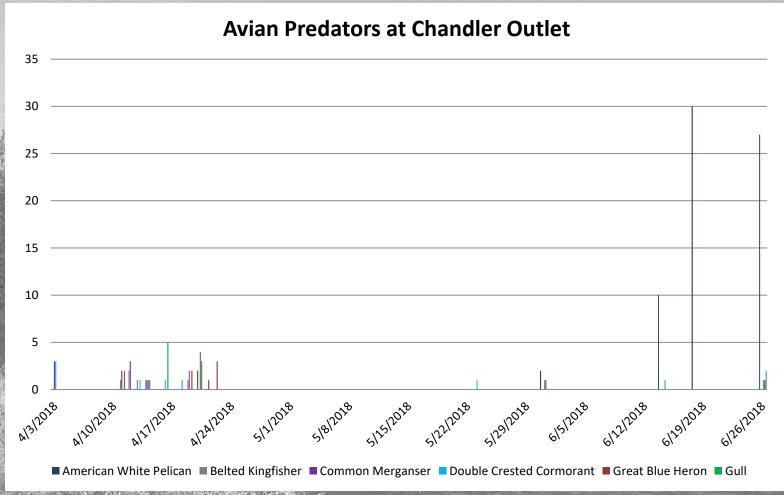


Avian Hot Spot Results





Prosser/Chandler Hot Spot









Questions

