

Pacific lamprey within Fifteenmile Creek and Hood River: Updates on distributions, abundance, and migrations.

2018 Columbia Gorge Fisheries and Watershed Science Conference

April 17, 2018

Andy Johnsen, Confederated Tribes of Warm Springs



A Brief Background

- Significant decline in number of returning adults in recent decades
- Culturally important to area tribes
- Important to local ecosystem

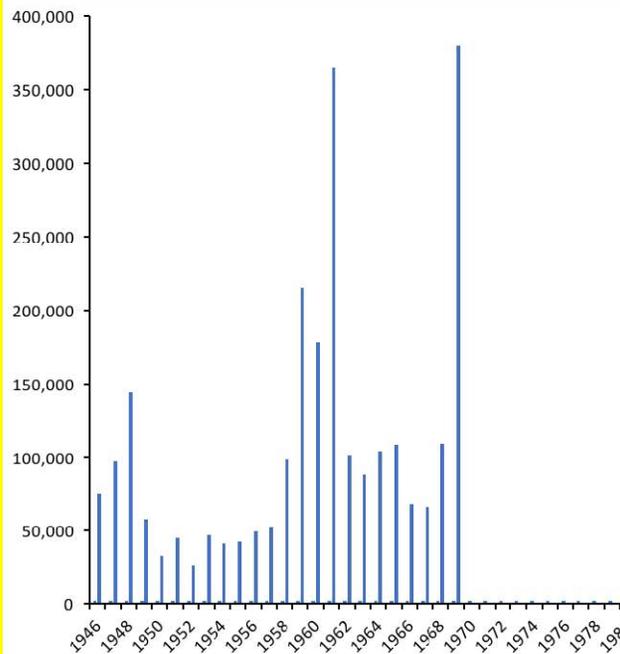
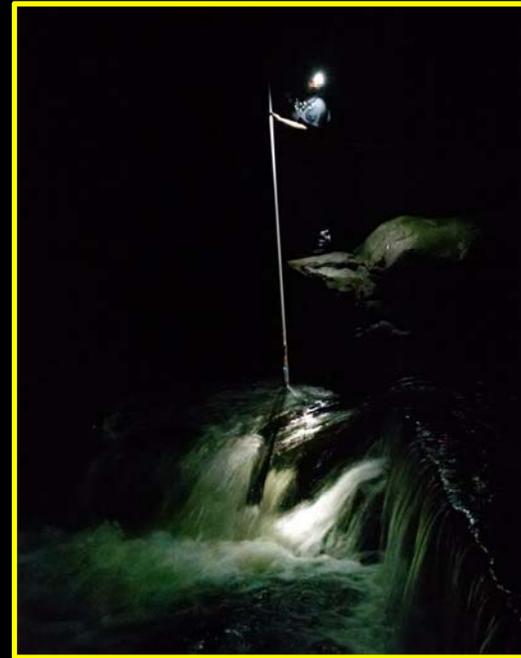
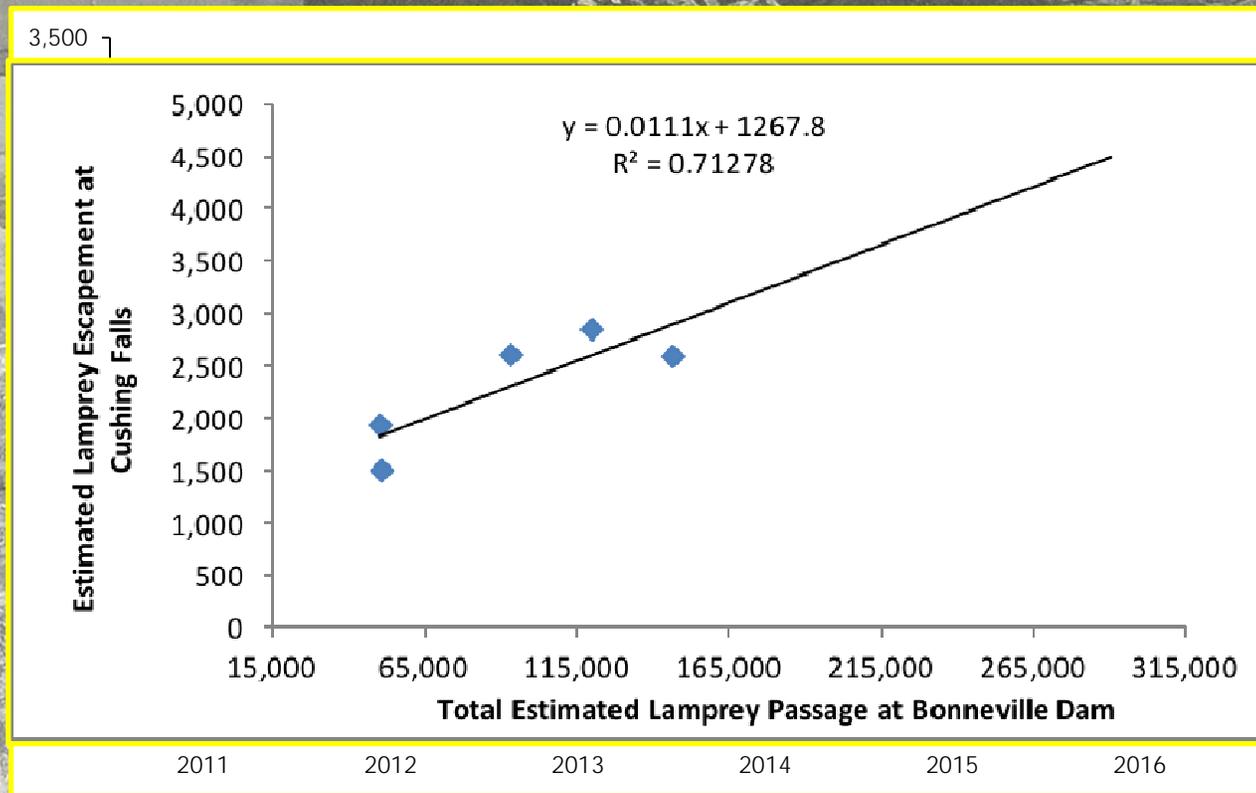


Photo credit: Frank Coster

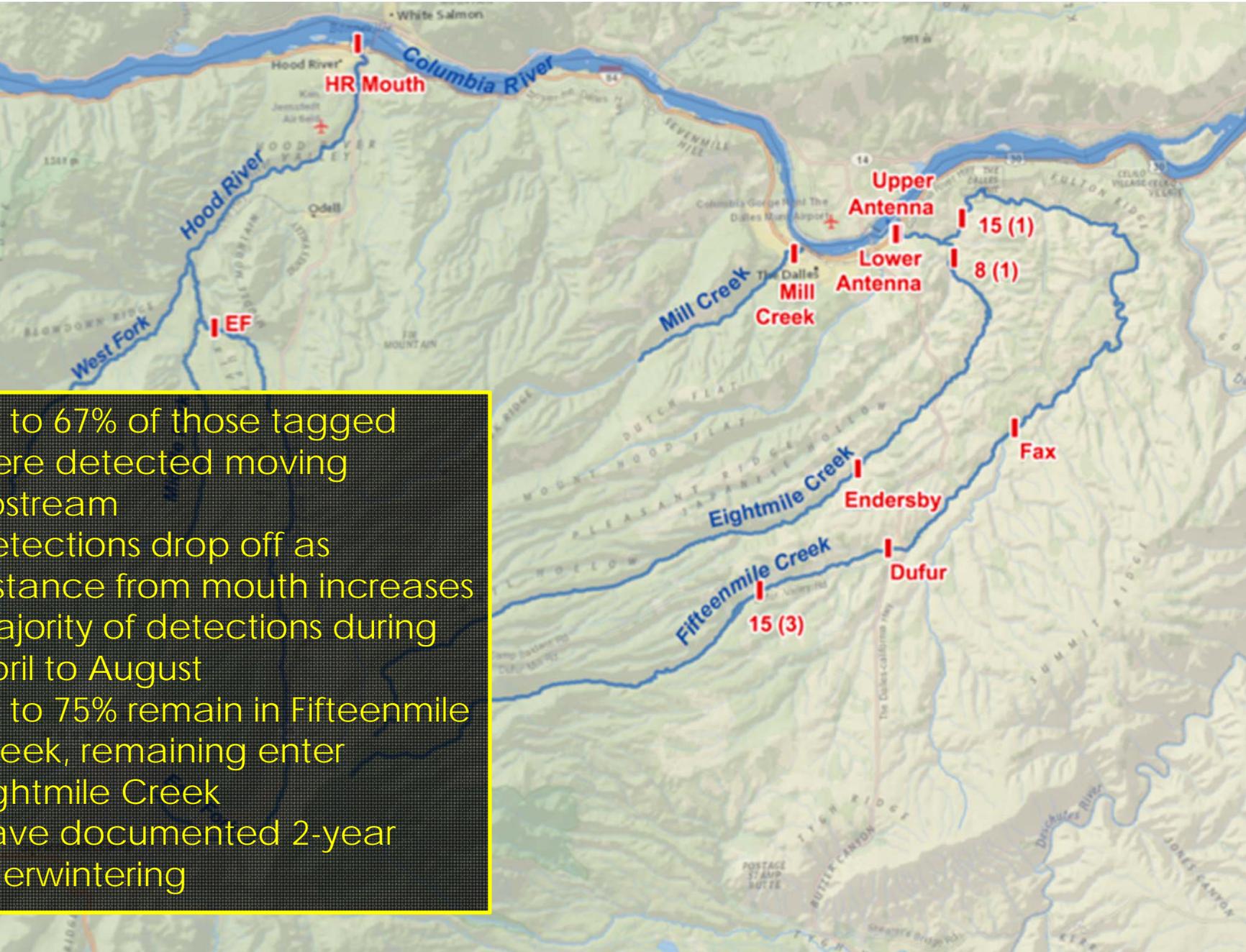
Photo credit: Frank Coster

TRIBAL HARVEST AND ESCAPEMENT IN FIFTEENMILE CREEK

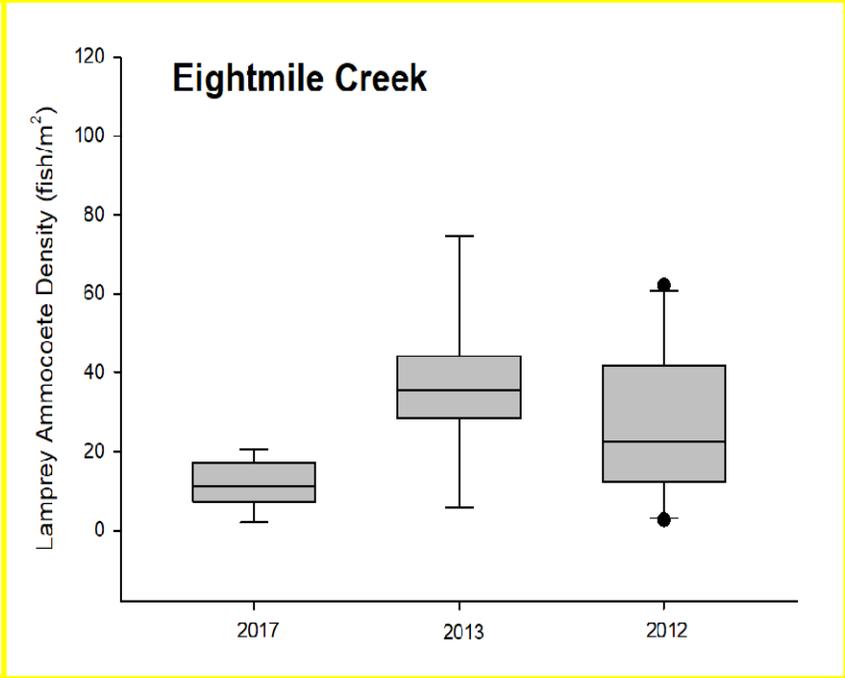
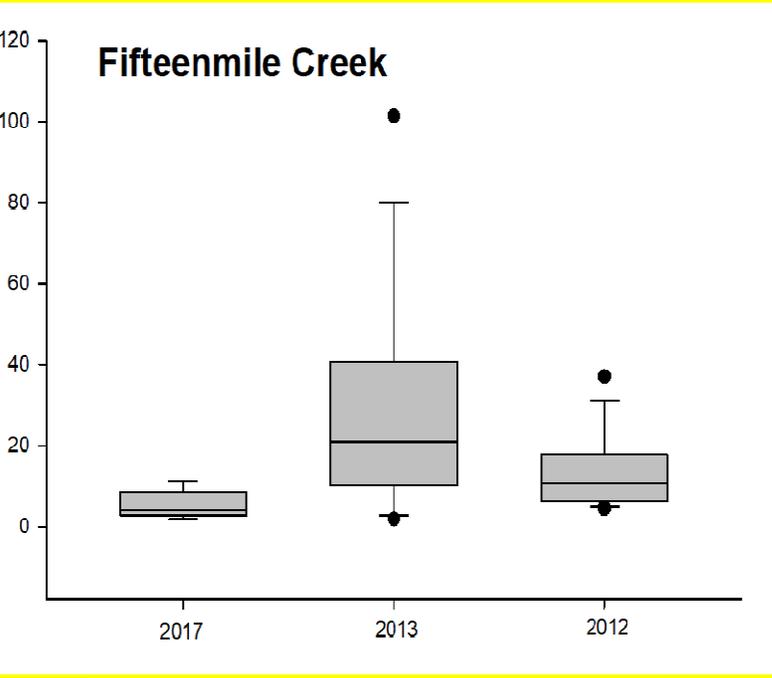
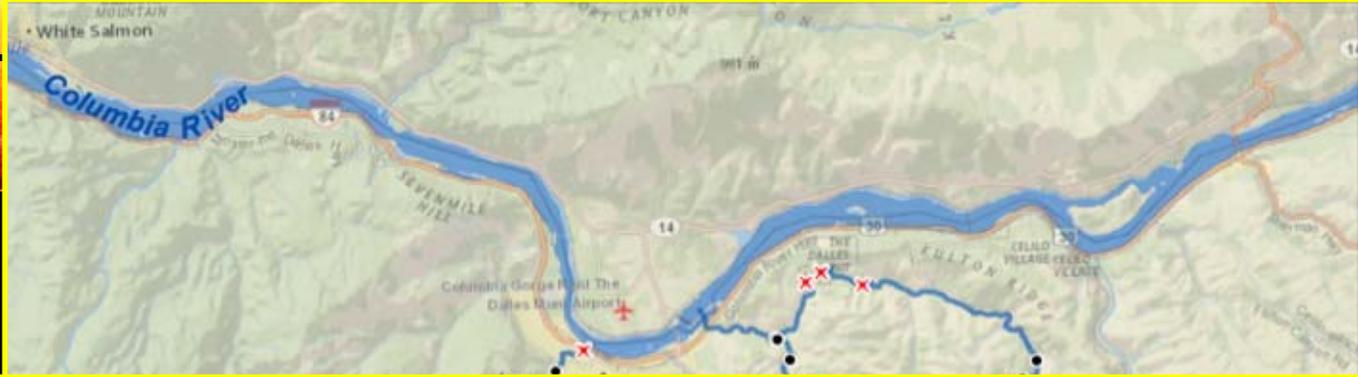


SUCCESSFUL SPAWNERS IN FIFTEENMILE CREEK

- Results indicate from estimates of 2012-2013 at Cushing Falls and from ammocoetes caught in ODFW's Fifteenmile Creek rotary screw trap.
- Thirty-two were successfully assigned to 6 parents that spawned in 2011, 2012, or 2013.
- Samples sent to and analyzed by CRITFC's Hagerman Genetics Lab.
- Estimates drastically different from the escapement estimates
 - Errors in escapement methods?
 - Pre-spawn mortality?



to 67% of those tagged
 ere detected moving
 ostream
 ections drop off as
 tance from mouth increases
 ajority of detections during
 ril to August
 to 75% remain in Fifteenmile
 eek, remaining enter
 ightmile Creek
 ave documented 2-year
 erwintering





Hood River Recolonization

- Distribution increasing since removal of Powerdale Dam
- No lamprey found in tributaries thus far
- Recolonization primarily in main-stem and East Fork



FUTURE PLANS

Document distribution and species presence within smaller Columbia River tributaries

Mussel/ammocoete interactions

Tumwater Falls on the John Day River

Radio telemetry within Fifteenmile Creek

Collection and PIT tagging within Hood River





ACKNOWLEDGEMENTS

Oregon Department of Fish and Wildlife (ODFW)

Wasco County Soil and Water Conservation District

Hood River County

Cities of The Dalles and Dufur

Columbia River Inter-Tribal Fish Commission (CRITFC)

Numerous private landowners in Fifteenmile Creek, Mill Creek, and Hood River watersheds

QUESTIONS ???

