

Upper Yakima Steelhead



Zack Mays and Gabe Temple

Overview

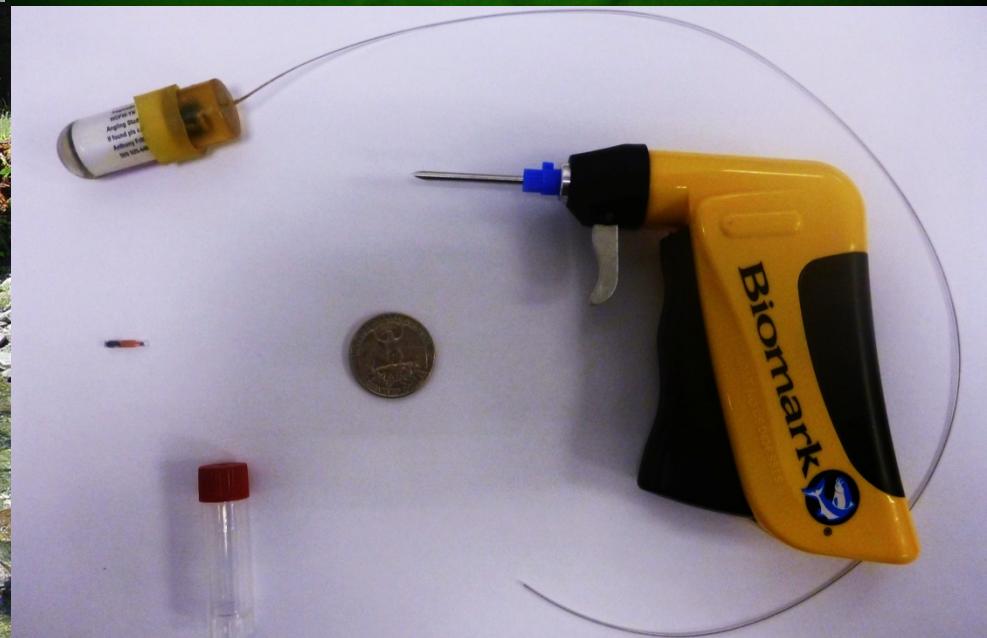
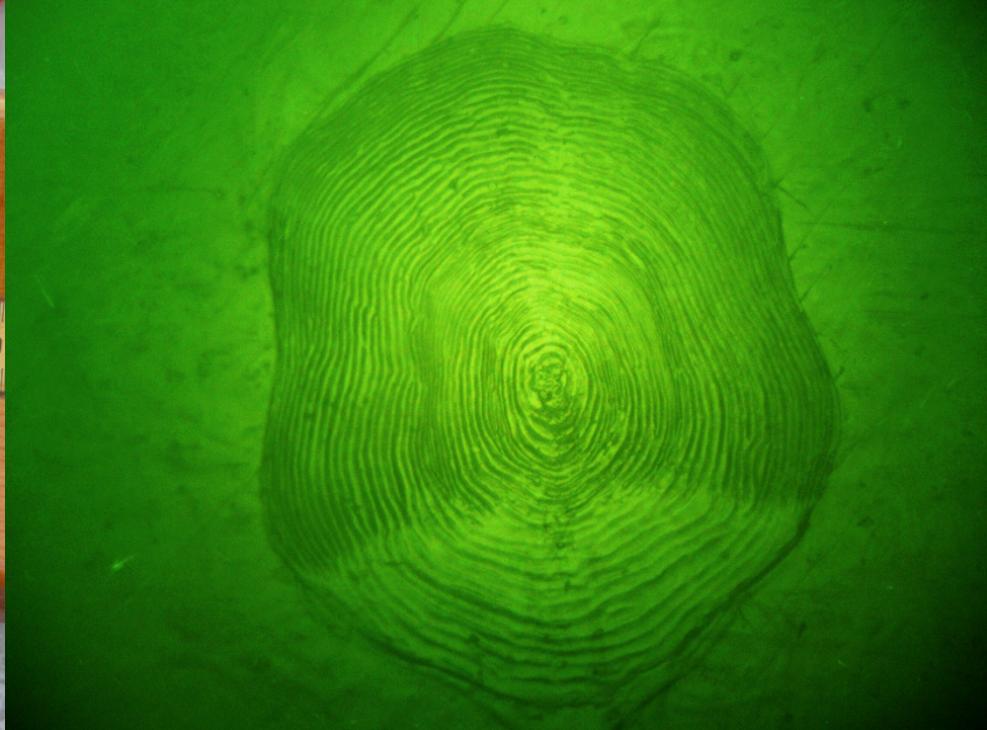
- Infrastructure/O & M
- Juvenile pit tagging/detections
- Adult pit tagging/detections
- Adult radio telemetry

Multiplexing arrays

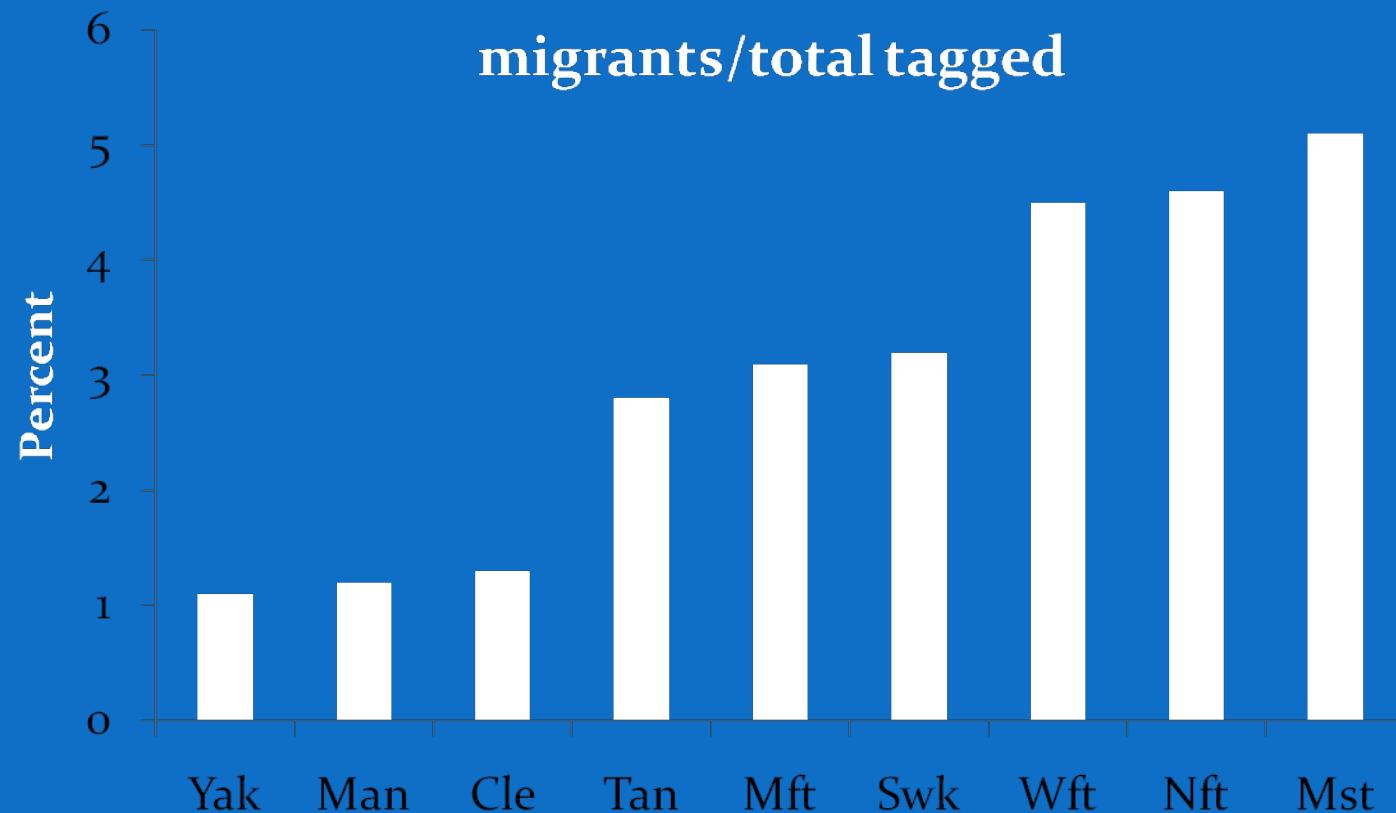


Allflex: Flat plate design

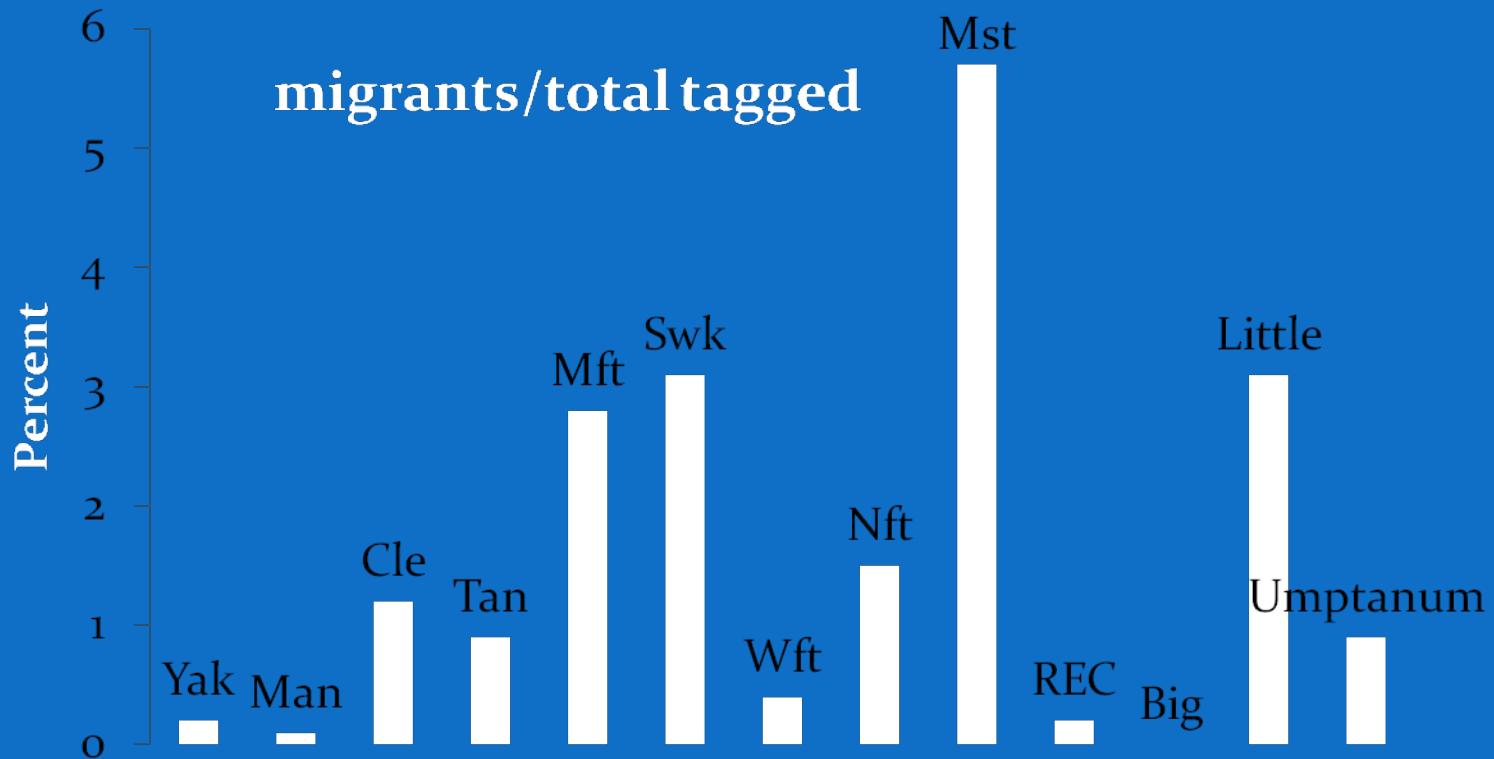




Detections in FY12



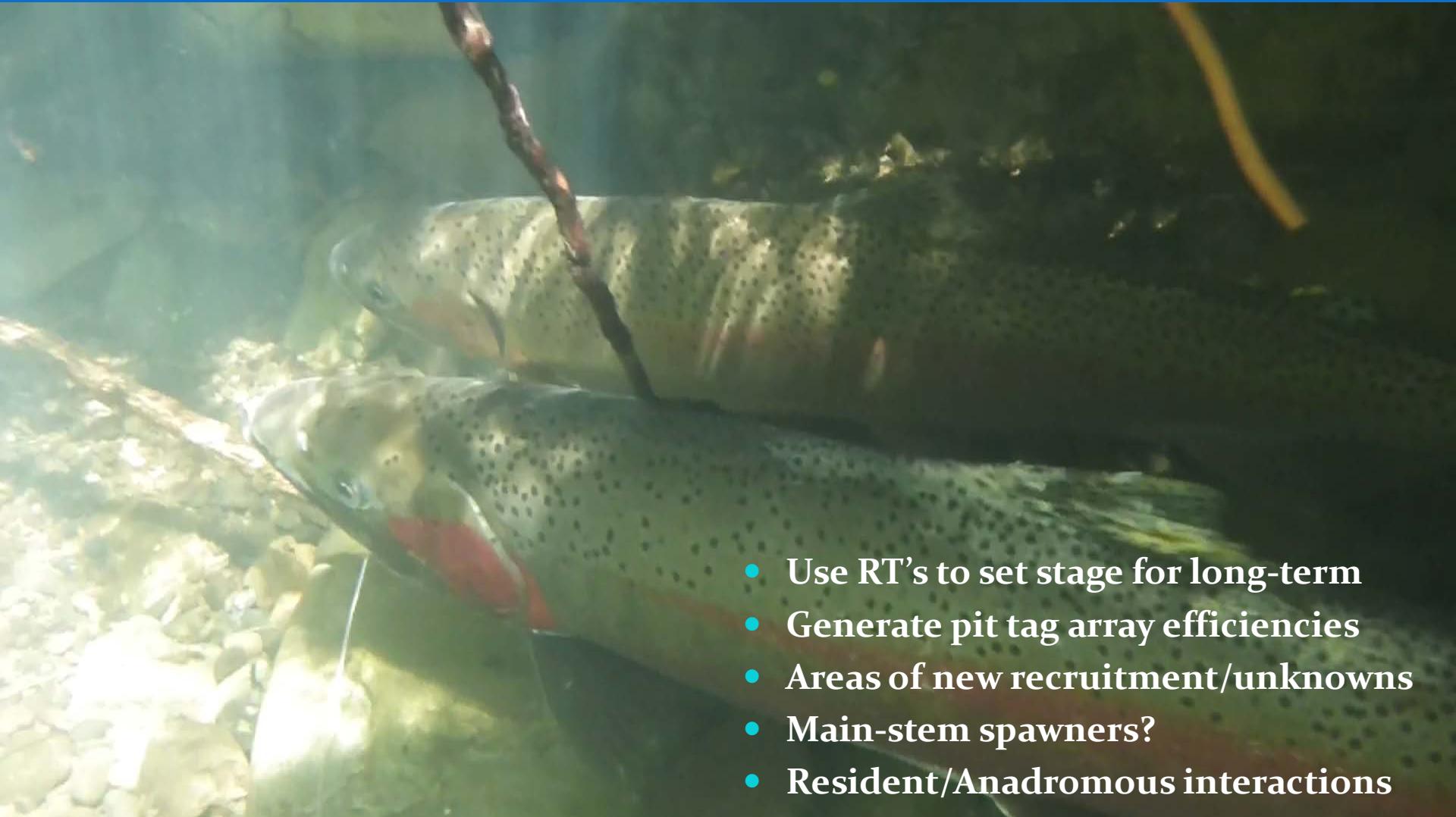
Detections in FY13





Pit tag interrogation sites

Why track radio tags above Roza?



- Use RT's to set stage for long-term
- Generate pit tag array efficiencies
- Areas of new recruitment/unknowns
- Main-stem spawners?
- Resident/Anadromous interactions

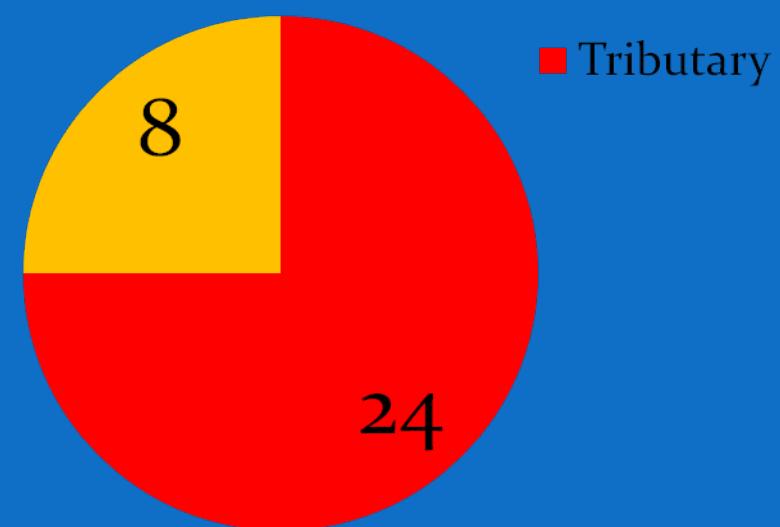
Spawning Distribution

radio tagged fish (trib/main-stem)

2012

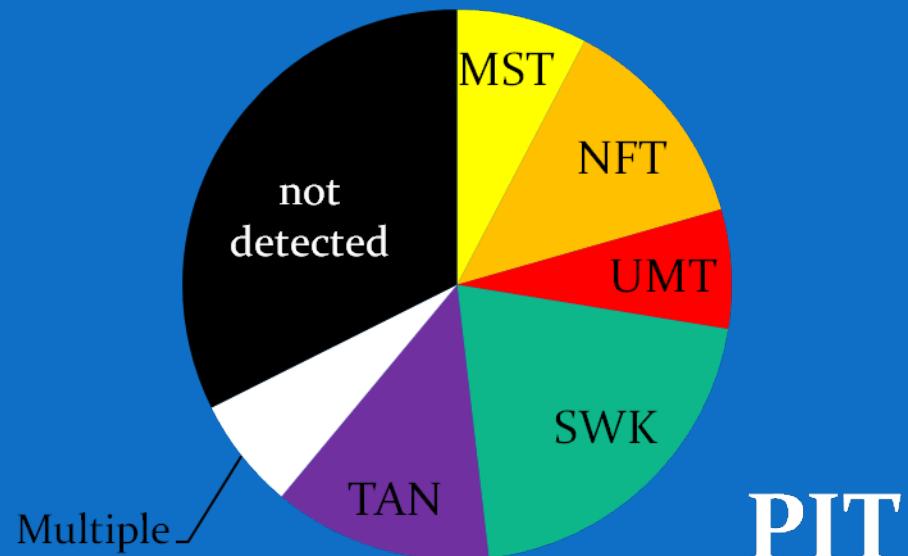
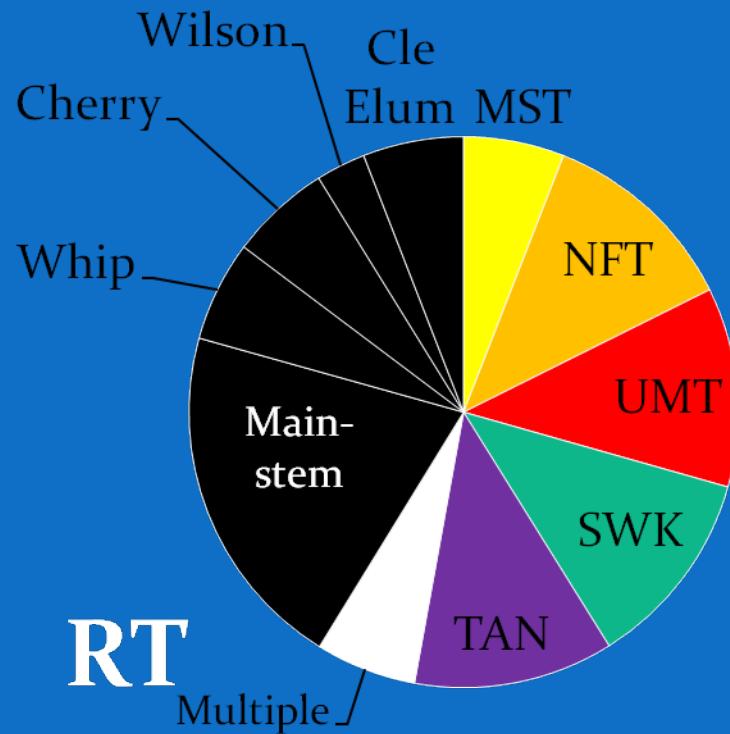


2013

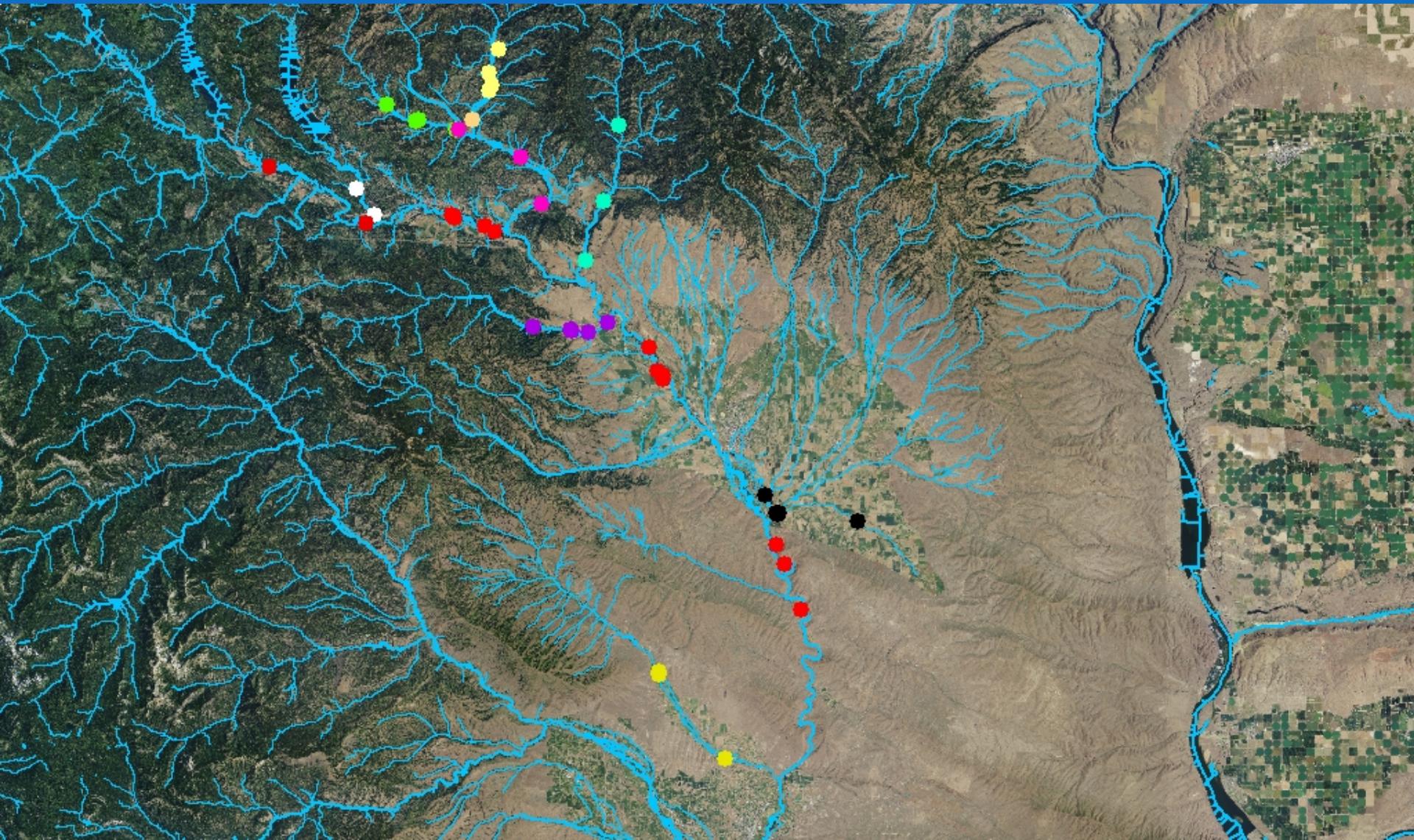


Spawning Distribution

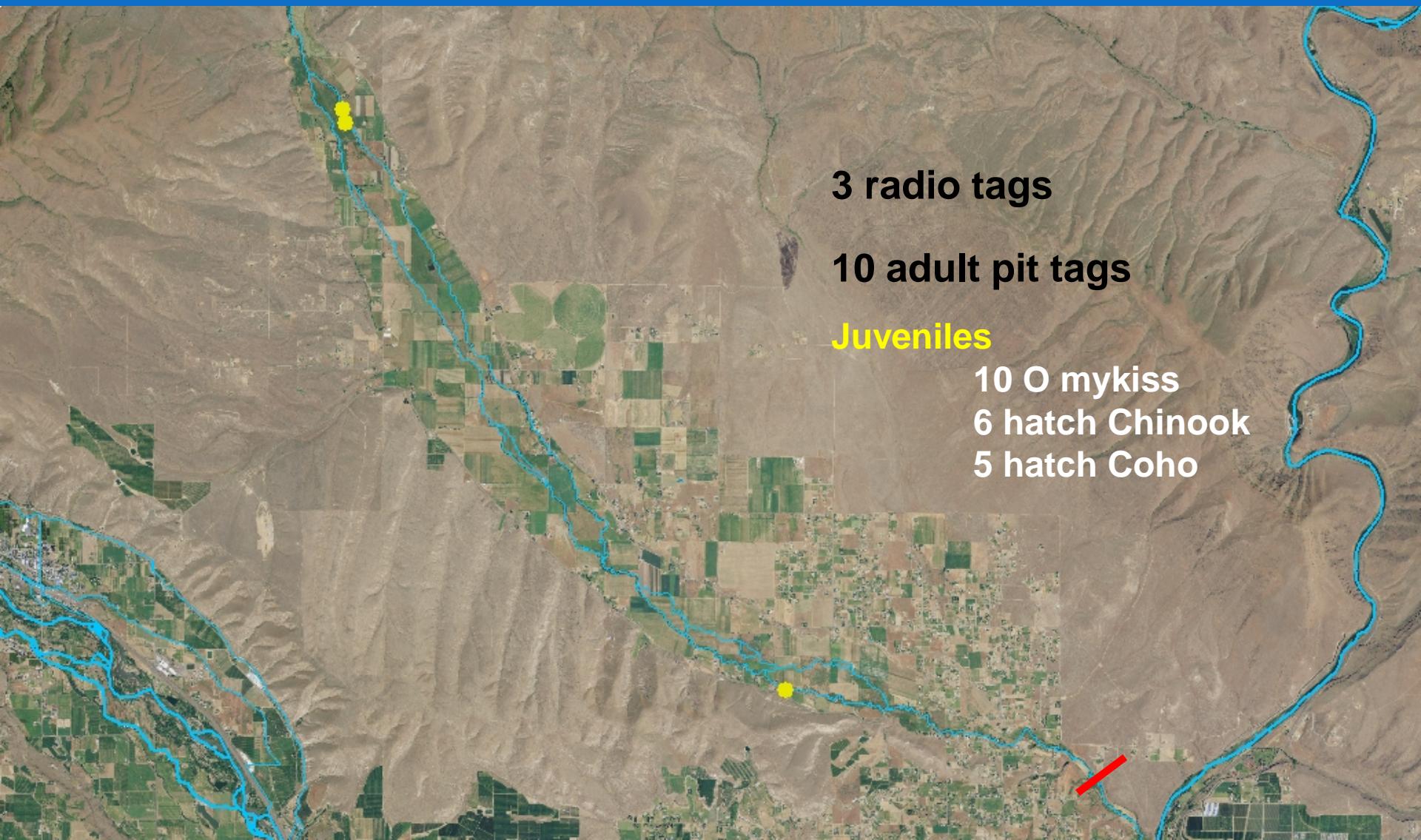
radio tags vs pit tags



Upper Yakima/Wenas spawning distribution (RT)



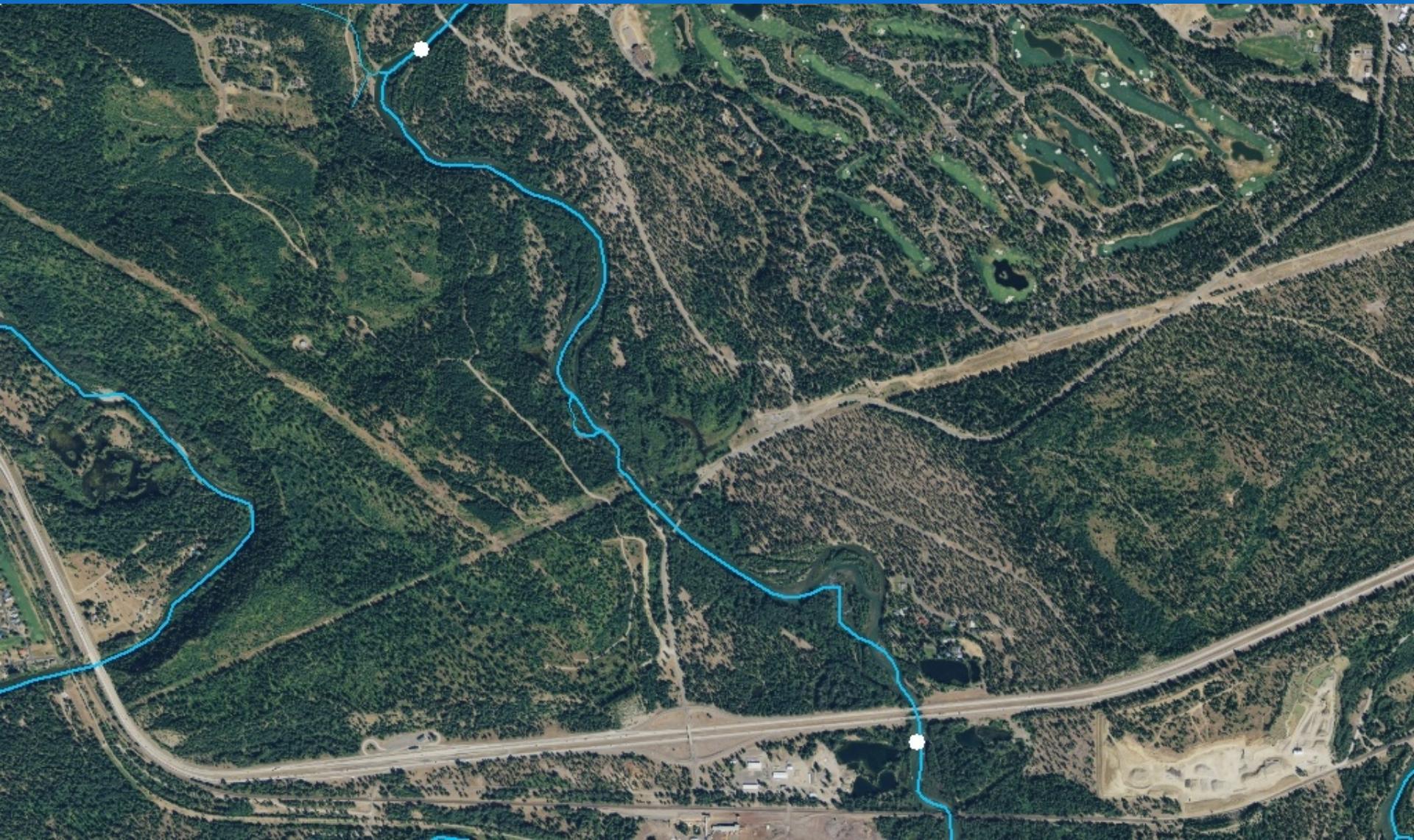
Wenas



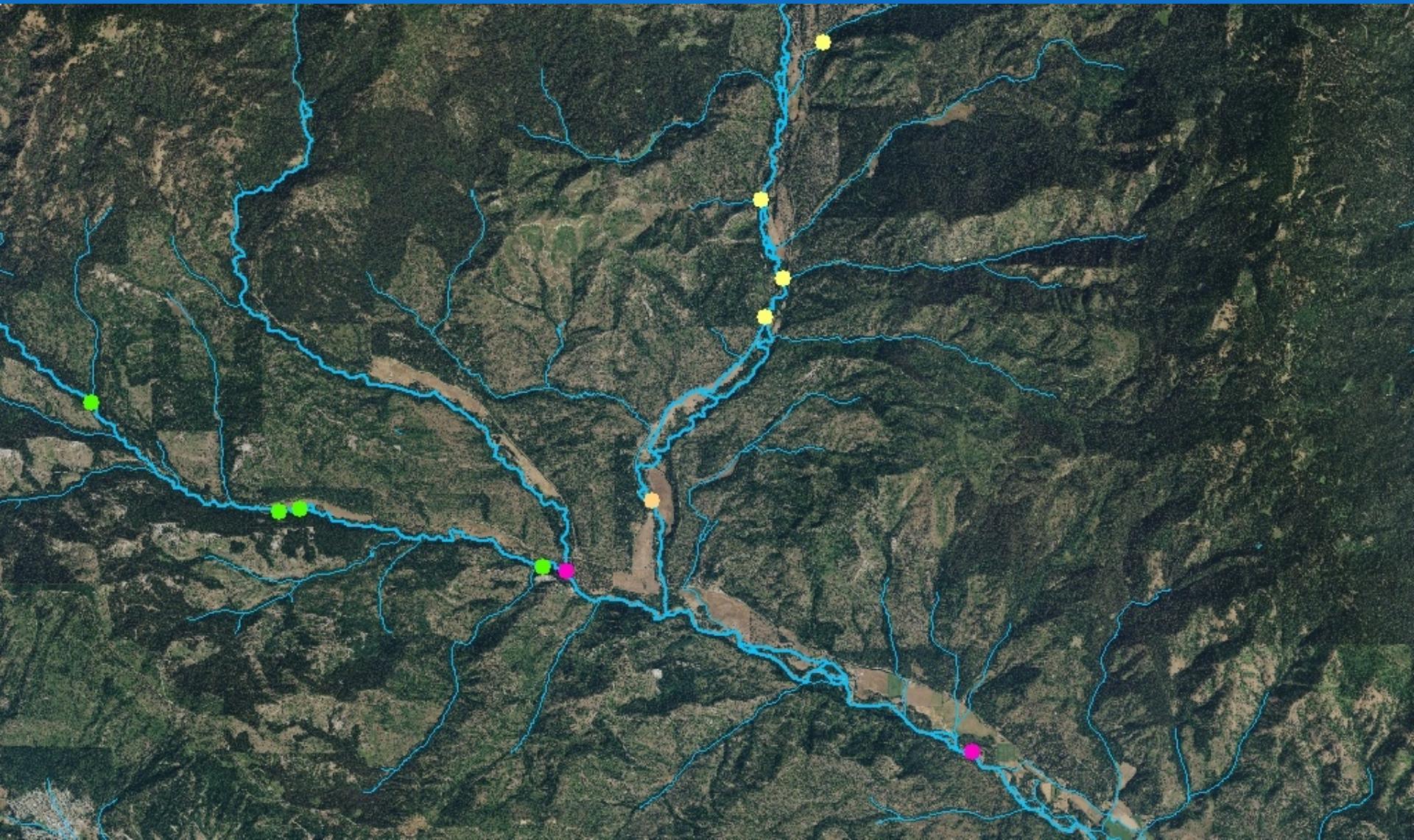
Wilson



Cle Elum



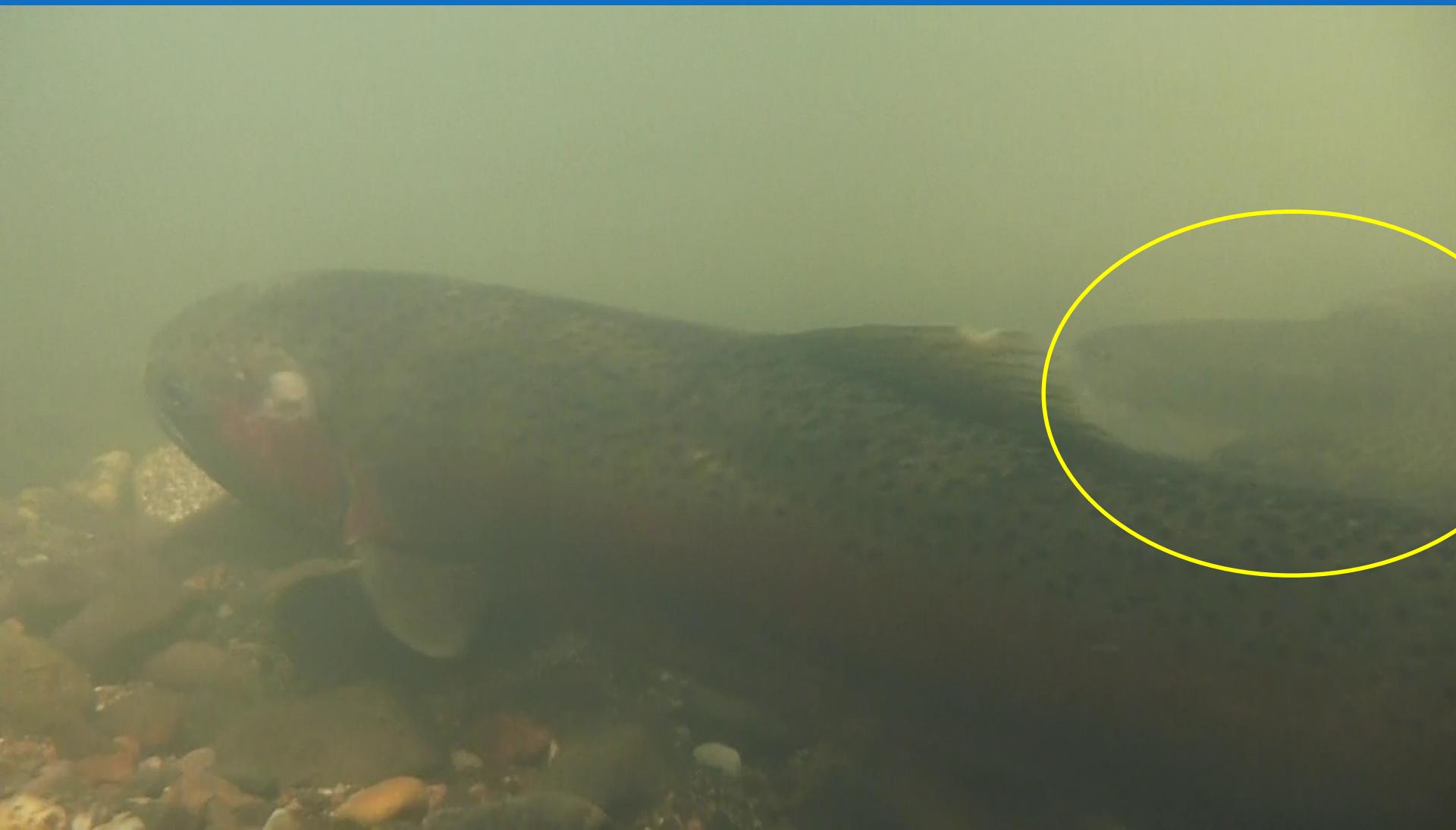
Upper Teanaway



An underwater photograph showing two large salmon swimming over a bed of smooth, light-colored stones. The fish are dark greenish-blue with distinct vertical stripes and yellow spots. The fish in the foreground is slightly out of focus, while the one behind it is more prominent. Sunlight filters down from the surface, creating bright highlights on the fish's scales and the stones.

Anadromous female/large resident male

Common Theme





A photograph of a river flowing through a landscape. In the foreground, there is a small dam or weir, creating a white, turbulent waterfall. The river then flows into a series of dark, calm pools separated by low, rocky steps. The banks of the river are rocky and uneven. In the background, there is a grassy area with some buildings, including a house and a barn-like structure, and a dense forest of evergreen trees on a hillside under a cloudy sky.

Step-pool structures





Scott Nicolai's project

An underwater photograph of a large brown trout swimming in a stream. The fish is positioned in the lower-left foreground, facing towards the right. It has a dark, mottled pattern on its body. In the upper-left foreground, a dark, weathered stick or branch is partially submerged. The background shows a rocky stream bed and some aquatic plants. The water is slightly murky.

Jack Creek fish

Photo by Cade Lillquist



Passage barriers

Acknowledgements

A photograph of a young child, approximately 2-3 years old, standing in a shallow stream. The child is wearing a green long-sleeved shirt, light blue jeans, and yellow boots. They are pointing their right index finger directly at the camera with a focused expression. The background consists of tall, dry, golden-brown grasses. The water in the stream is clear and shallow, reflecting the surrounding environment. The foreground is covered with numerous small, smooth stones of various colors.