

The CTUIR First Foods Management Approach: An Indigenous Knowledge System Informs Applied Salmon Management.

Eric Quaempts, Natural Resources Director Confederated Tribes of the Umatilla Indian Reservation

Pacific Salmon Commission Seminar Series 5.25.22

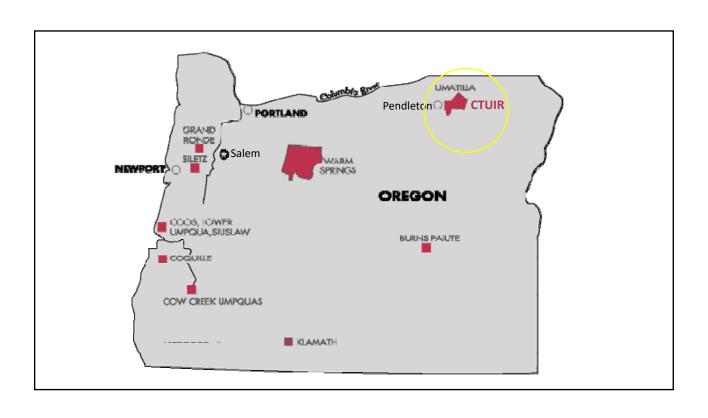


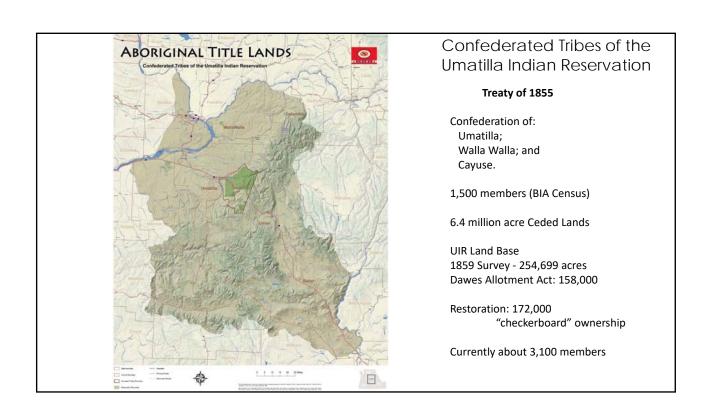
Seminar Themes:

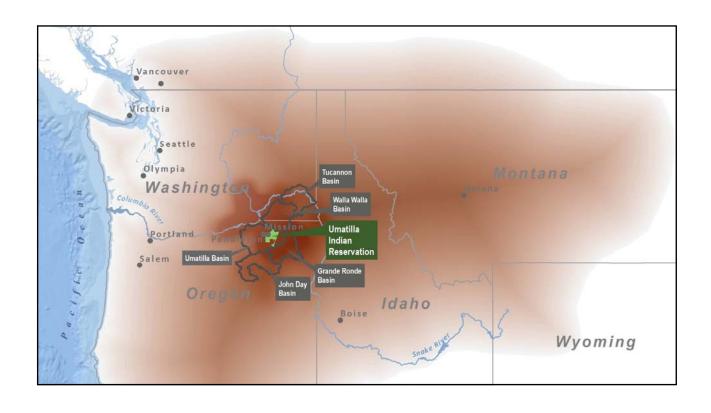
Freshwater Habitat Challenges | Forecasting Environmental Variation | Management Strategies for Uncertain Times | Changes in Salmon Life History & Productivity

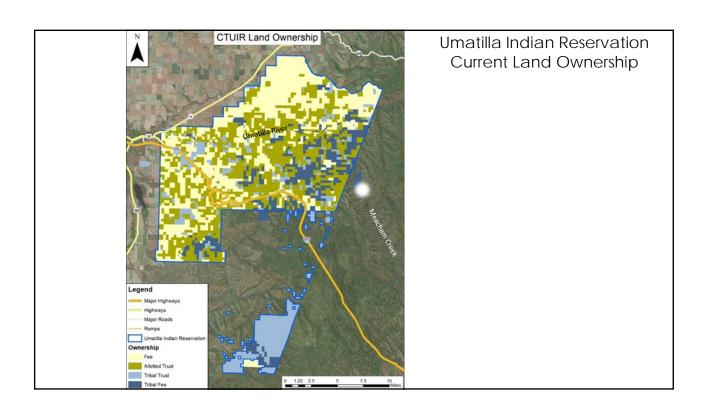
Presentation Overview

- 1. Confederated Tribes of the Umatilla Indian Reservation Overview;
- 2. First Foods Mission Background;
- 3. River Vision for applied First Foods Management;
- 4. Next Steps Highlights in CTUIR Efforts.











First Foods Mission

To protect, restore, and enhance the First Foods - water, salmon, deer, cous, and huckleberry - for the perpetual cultural, economic, and sovereign benefit of the CTUIR.

We will accomplish utilizing traditional ecological and cultural knowledge and science to inform:

- population and habitat management goals and actions; and
- 2) natural resource policies and regulatory mechanisms.

Community Values





"We need cold, clear, pure water and salmon" - átwayLouie Dick, CTUIR Member, 1981-82

"You're always talking about the men's foods. Who is going to take care of the women's foods?"

- Marie "Butch" Dick, CTUIR Member and wife of Louie, 1988-89

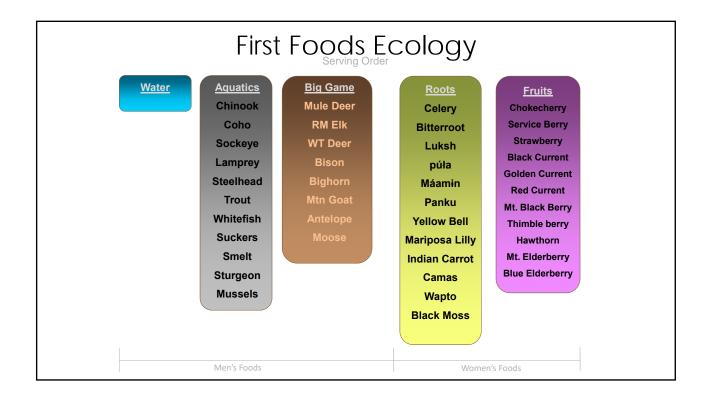


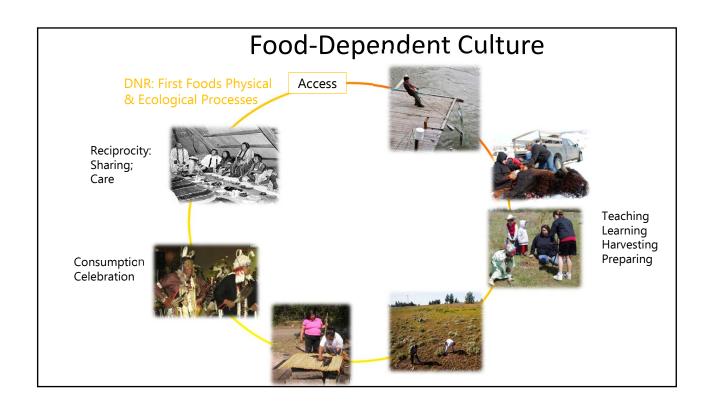


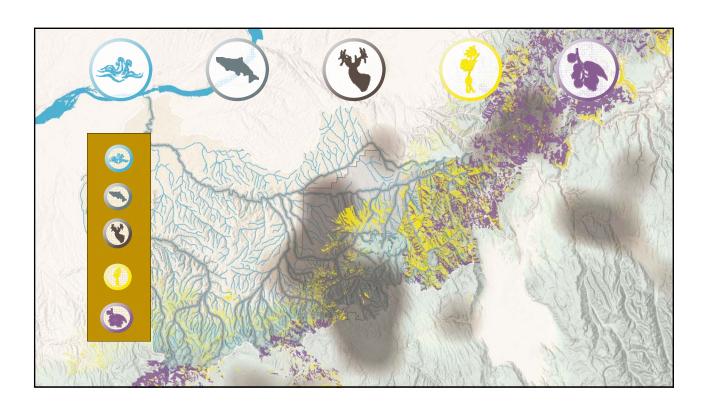






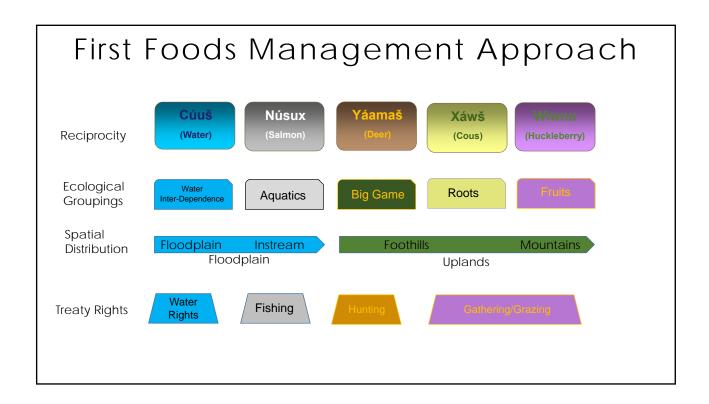


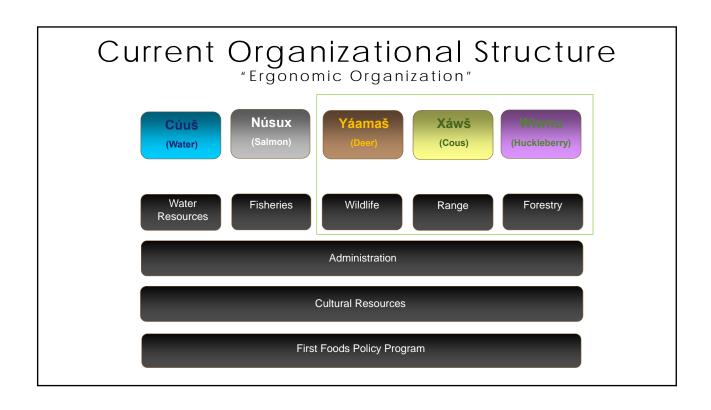


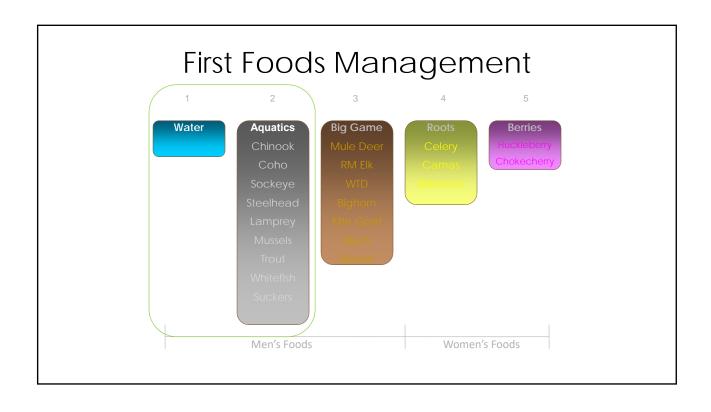


Treaty of 1855, Article 1

....Provided, also, that the exclusive right of taking fish in the streams running through and bordering said reservation is hereby secured to said Indians, and at all other usual and accustomed stations in common with citizens of the United States, and of erecting suitable buildings for curing the same; the privilege of hunting, gathering roots and berries and pasturing their stock on unclaimed lands in common with citizens is also secured to them.









CTUIR River Vision

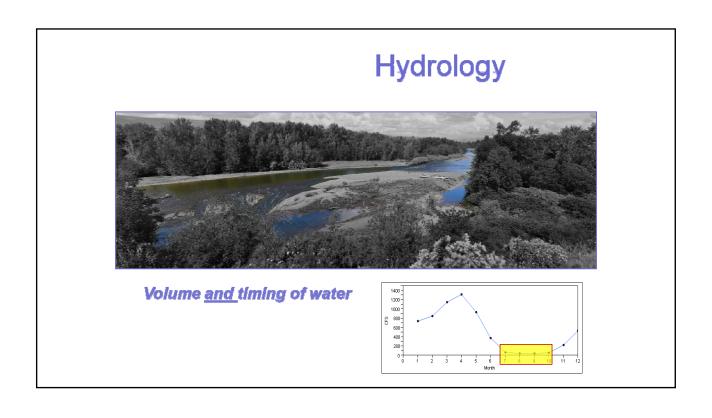


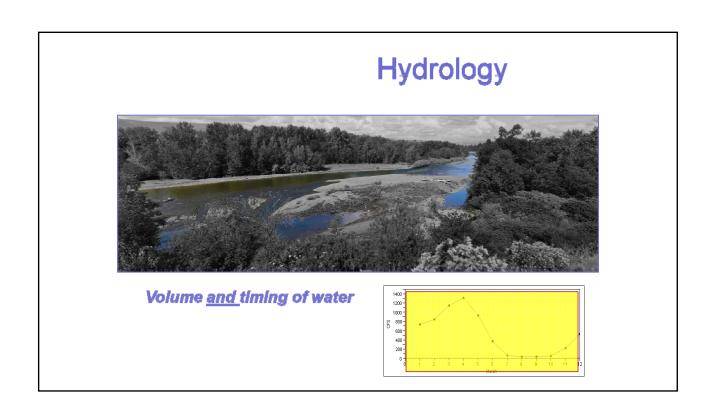
...a healthy river is capable of providing First Foods that sustain the continuity of the Tribe's culture.

Hydrology



Volume and timing of water





Hydrology



Longitudinal, Lateral, & Vertical

Geomorphology

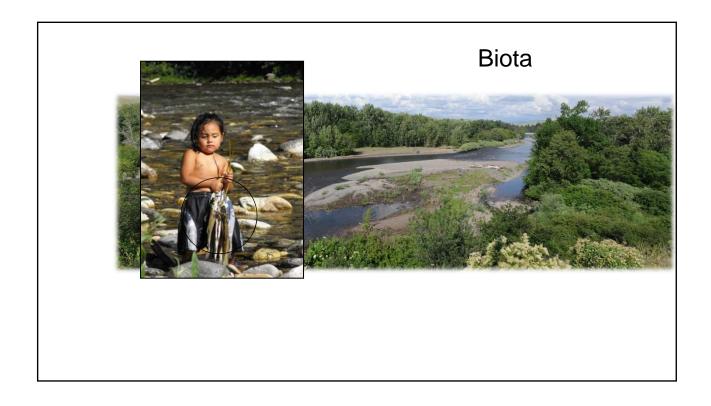


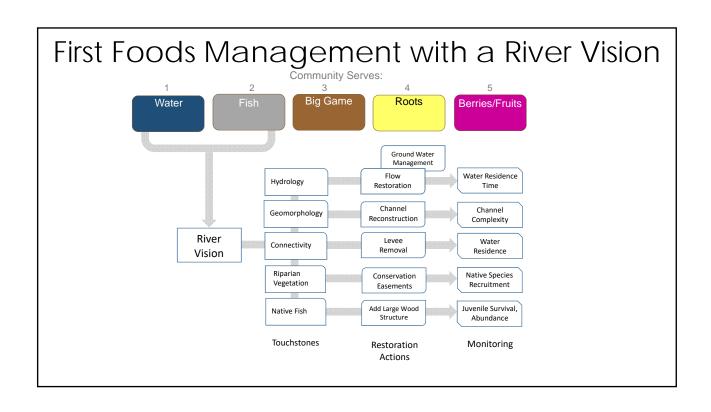
Topographically Diverse, Accessible by River

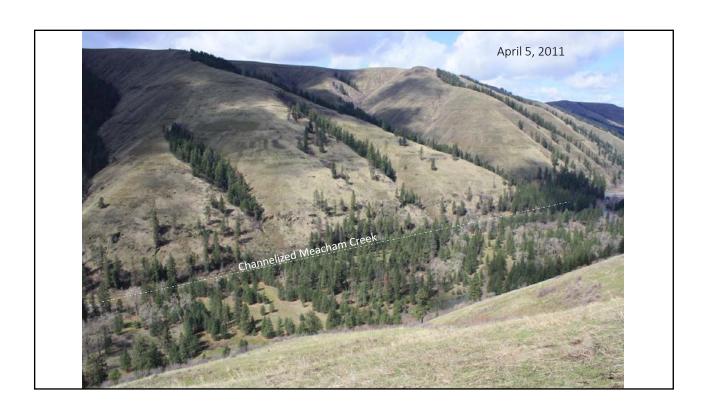
Riparian Vegetation



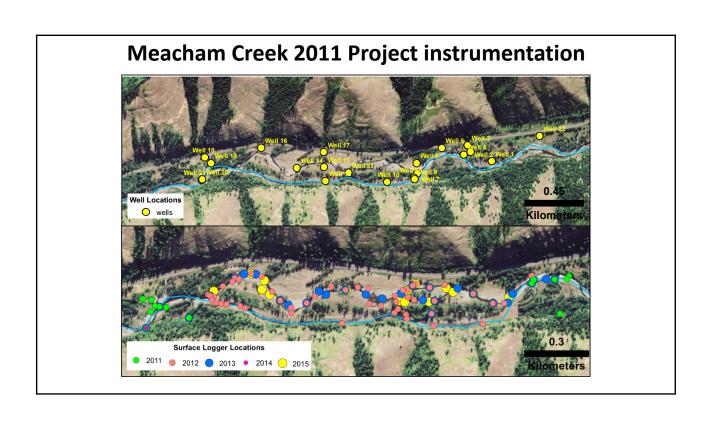
Native Vegetation – Large Wood Inputs, Other

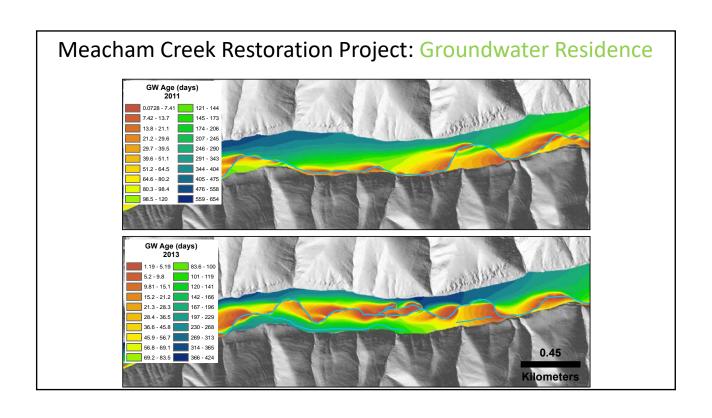


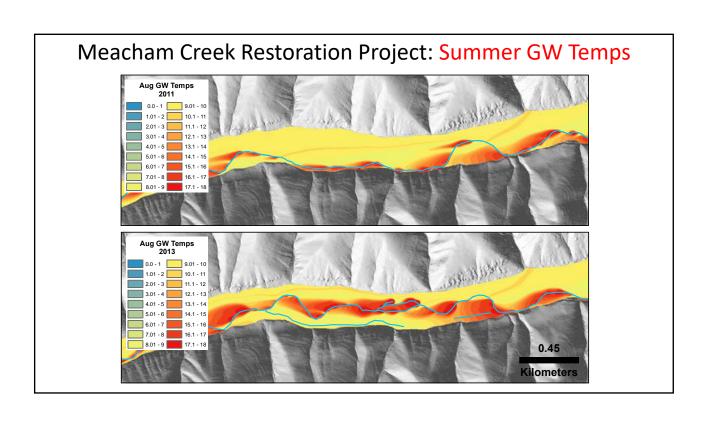


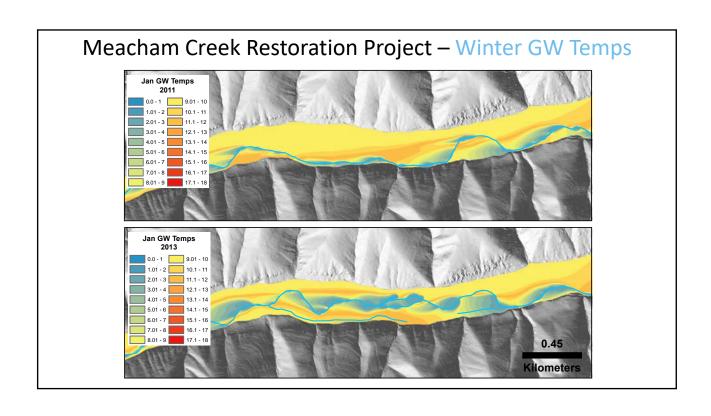




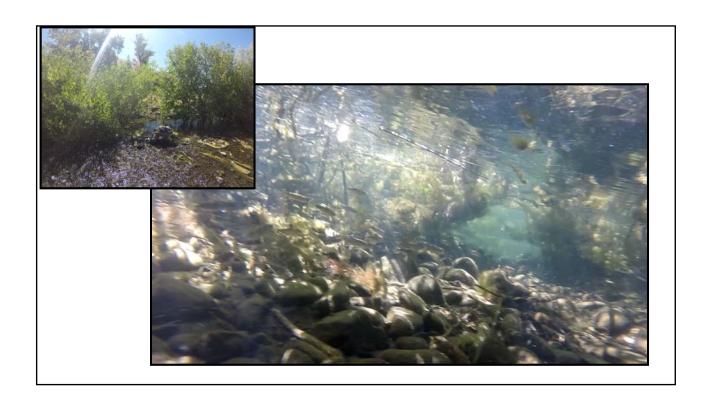


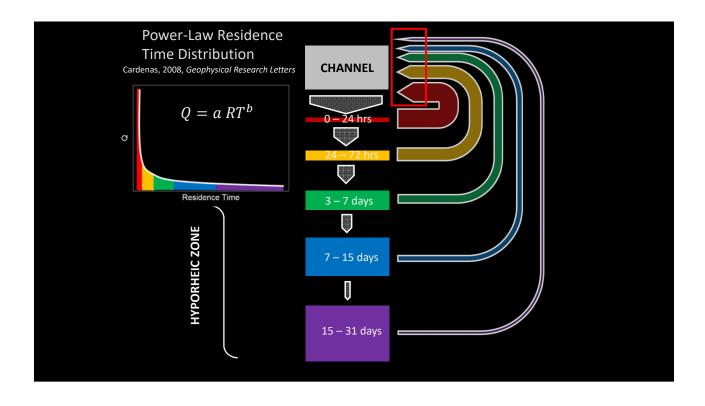


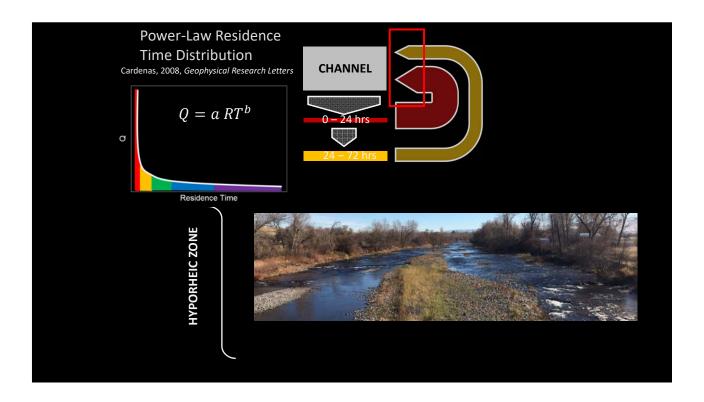












Next Steps Highlights

- 1. Updating the River Vision with an increased emphasis on 'Access' and climate change implications;
- 2. Understanding juvenile fish mortality in the lower reaches of our Ceded Rivers (Productivity theme);
- 3. Pacific Marine policy needs to address GHG reductions, protect and enhance the marine environment (Productivity).

Summary

- 1. The First Foods serving order represents a knowledge system of religious, cultural, ecological, and spatial organization;
- 2. First Foods provide a cultural and ecological framework for water quality and fisheries restoration;
- 3. First Foods relate directly to CTUIR Treaty Rights, which rights create a federal trust responsibility & opportunities for CTUIR/Federal Agency collaboration;
- 4. Restoring lateral and vertical connectivity increases thermal diversity in alluvial rivers to the benefit of native fish species;
- 5. Climate change impacts are expected to increase streamflow variability; and
- Hyporheic restoration could be valuable in buffering the anticipated impacts of climate change with respect to stream temperature and native fish habitat quality.

Acknowledgements

CTUIR Community Members

River Vision:

Scott O'Daniel, Krista Jones, Geoff Poole, Tim Beechie

Bethy Rogers-Pachio CTUIR GIS Program

Jim Webster, Hydrologist

NOAA NFSC for Invitation