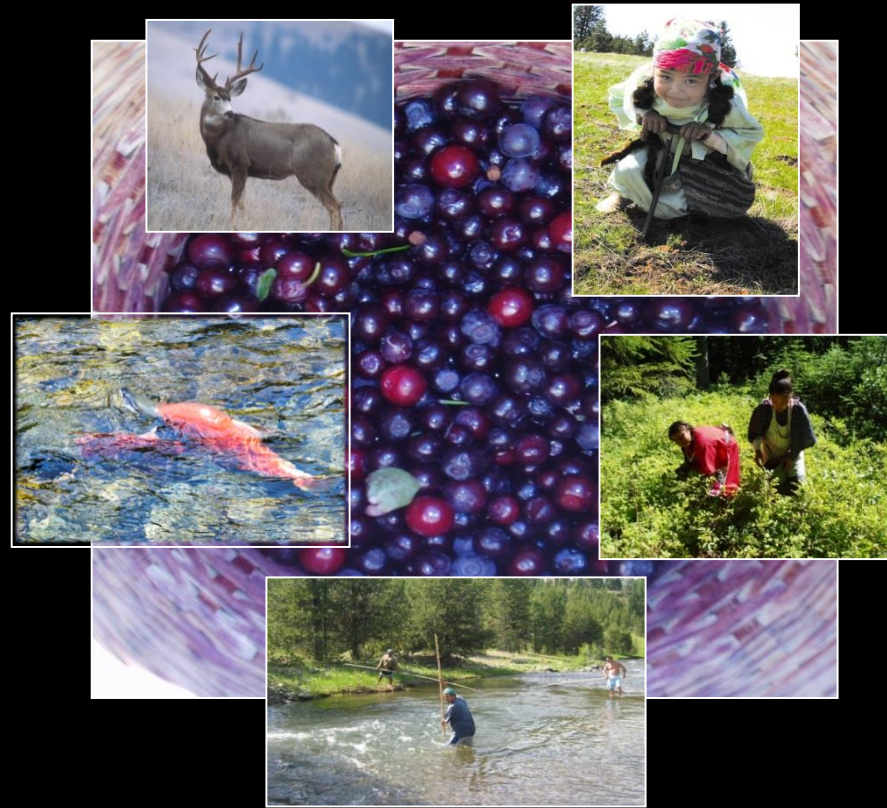


Fisheries Restoration in a First Foods Context: A Reciprocity Approach to Natural Resource Management



Presentation Goals

Promote Understanding of First Foods Approach

- 1) Describe serving order, illustrate ecological and spatial relationships;
- 2) Demonstrate First Foods links to Tribal identity, cultural continuity;
- 3) Bring attention to species and processes that may be unrecognized outside the Tribal community; and
- 4) Review application Examples – River Vision, Floodplain Restoration, Womens Foods Assessments.

DNR Mission Statement

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 this utilizing traditional ecological and cultural knowledge and science to inform:

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

Community Based

“We need cold, clear, pure water and salmon.”

-Awtway Louie 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?”

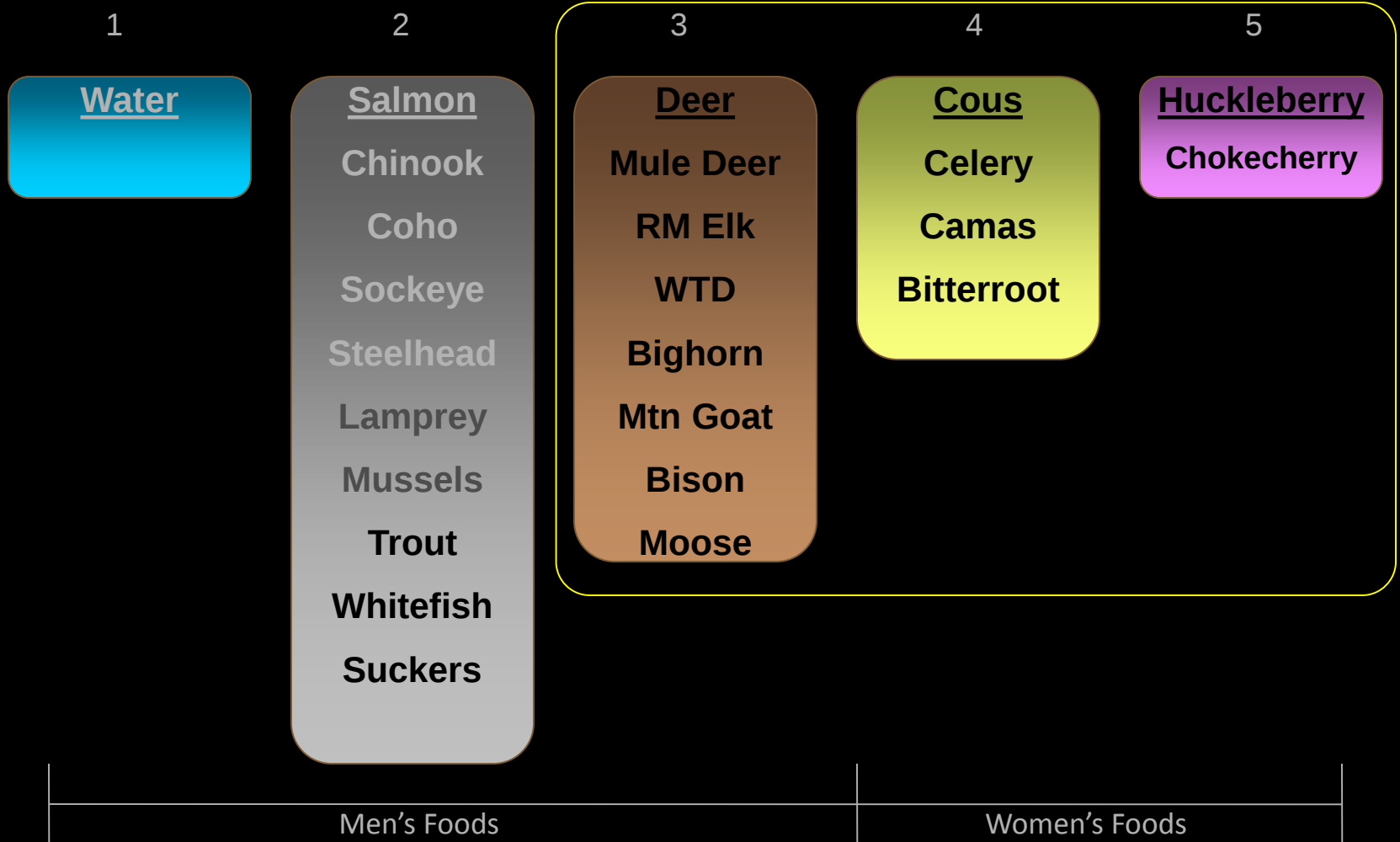
- Marie “Butch” Dick, CTUIR Member and wife of Louie, 1988-89

“What is culture? Culture is the law (Tamanwit).”

- Steve Sohappy, CTUIR Member

2006 - Extending the Table

Serving Order



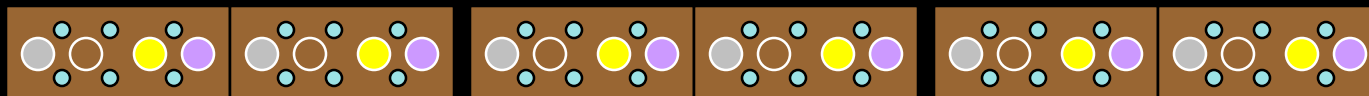
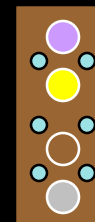
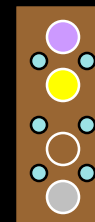
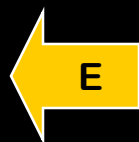
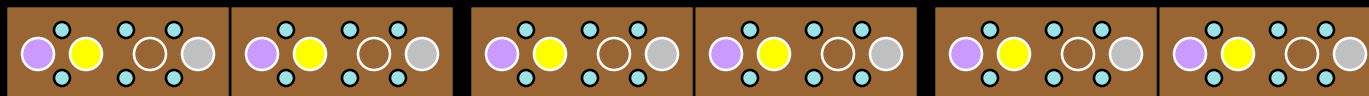
Water

Salmon

Deer

Cous

Huckleberry



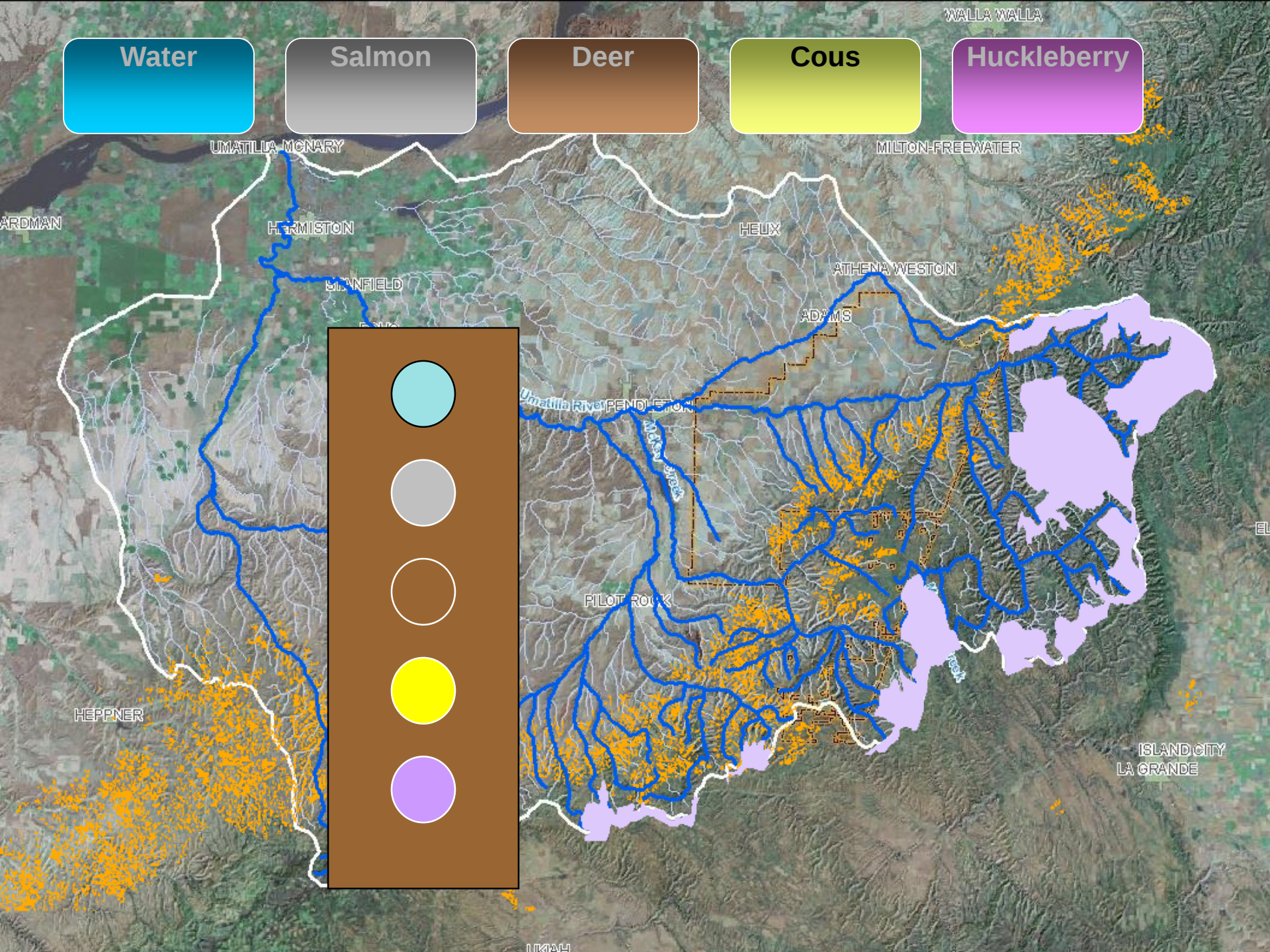
Water

Salmon

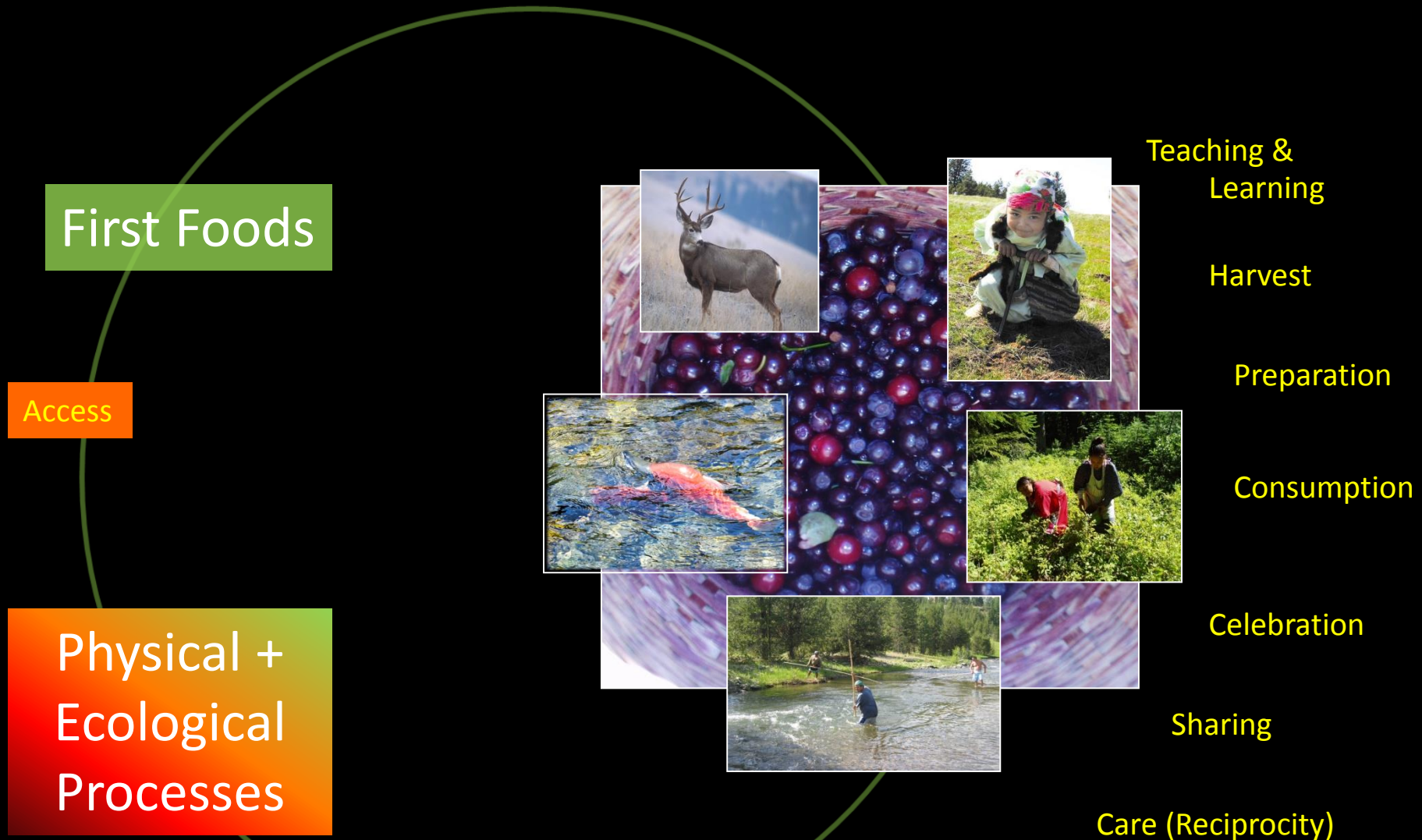
Deer

Cous

Huckleberry



Food Associated Culture



Treaty Right Relationships

Water

Salmon

Deer

Cous

Huckleberry

Water Rights

- Instream
- Consumptive

Fishing
Rights

Hunting
Rights

Gathering/Grazing
Rights

Organization

Water

Salmon

Deer

Cous

Huckleberry

Water Res

Fisheries

Wildlife

Range

Forestry

Cultural Resources Protection Program

First Foods Policy Program

Outreach & Education

Using the First Foods to Guide Restoration

Water

What processes are important for providing water quality that supports aquatic First Foods?

Salmon

Chinook

Coho

Sockeye

Steelhead

Lamprey

Mussels

Trout

Whitefish

Suckers

Deer

Mule Deer

RM Elk

WTD

Bighorn

Mtn Goat

Moose

Cous

Celery

Camas

Bitterroot

Huckleberry

Chokecherry

River Vision



“ The Umatilla basin includes a healthy river capable of providing First Foods that sustain the continuity of the Tribe’s culture. This vision requires a river that is dynamic, and shaped not only by physical and biological processes, but the interactions and interconnections between those processes.”

The Need for a First Foods River Vision

Sound river (water) management and restoration includes:

- **the need to develop a systemic and holistic vision of a functional river**
- **addresses ecological functions or causes of degradation to water and fish**

The CTUIR River Vision provides:

- **a framework for planning management or restoration efforts**
- **a benchmark for assessing management progress and outcomes**
- **a context necessary for understanding the role of management actions**

Using a First Foods-Based River Vision to Guide Fisheries Restoration

Serving Order

1

Water



2

Salmon



3

Deer



4

Cous



5

Huckleberry



River Vision Touchstones:

Hydrology

Geomorphology

Connectivity

Riparian
Vegetation

Aquatic
Biota



Goal

Restored Floodplain and Increased First Foods for Tribal Use

Hydrology

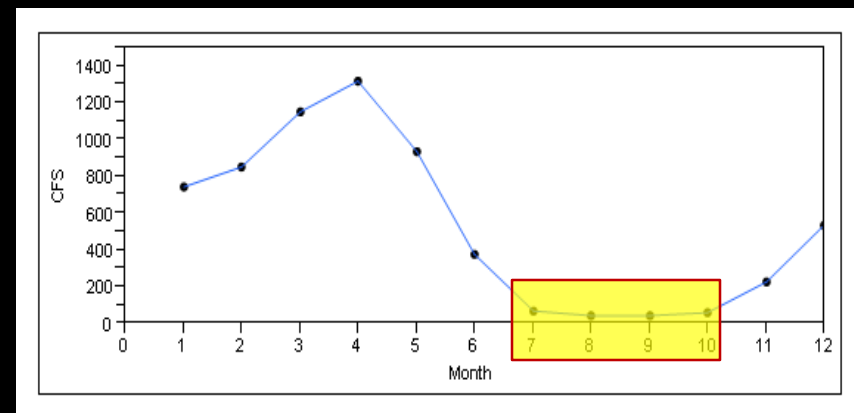


Volume and timing of water

Hydrology



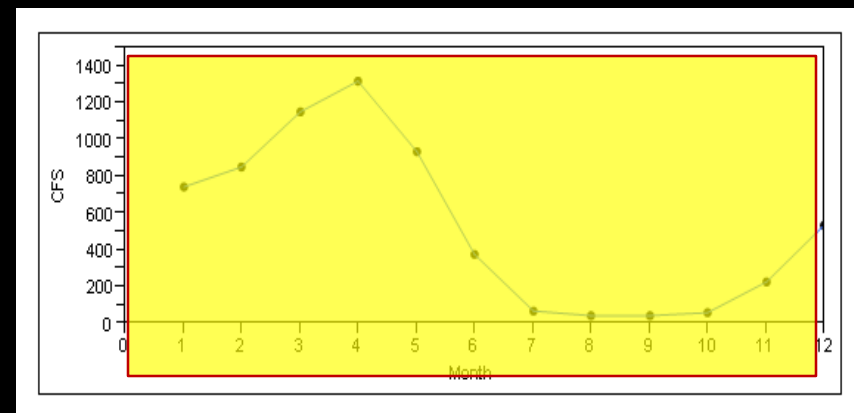
Volume and timing of water



Hydrology



Volume and timing of water



Connectivity



Longitudinal, Lateral, and Vertical

Geomorphology



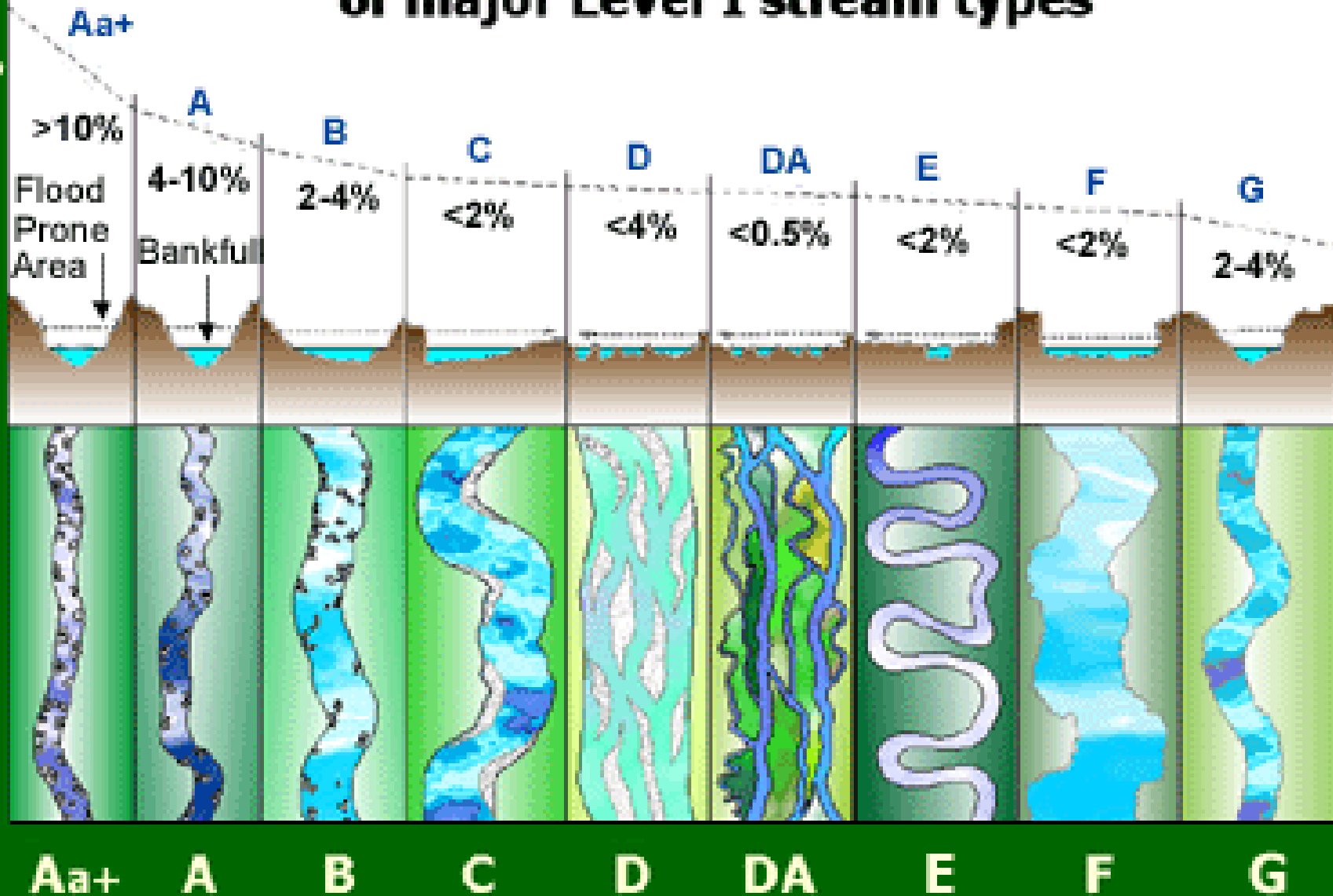
Valley Forms and Channel Forms landscapes

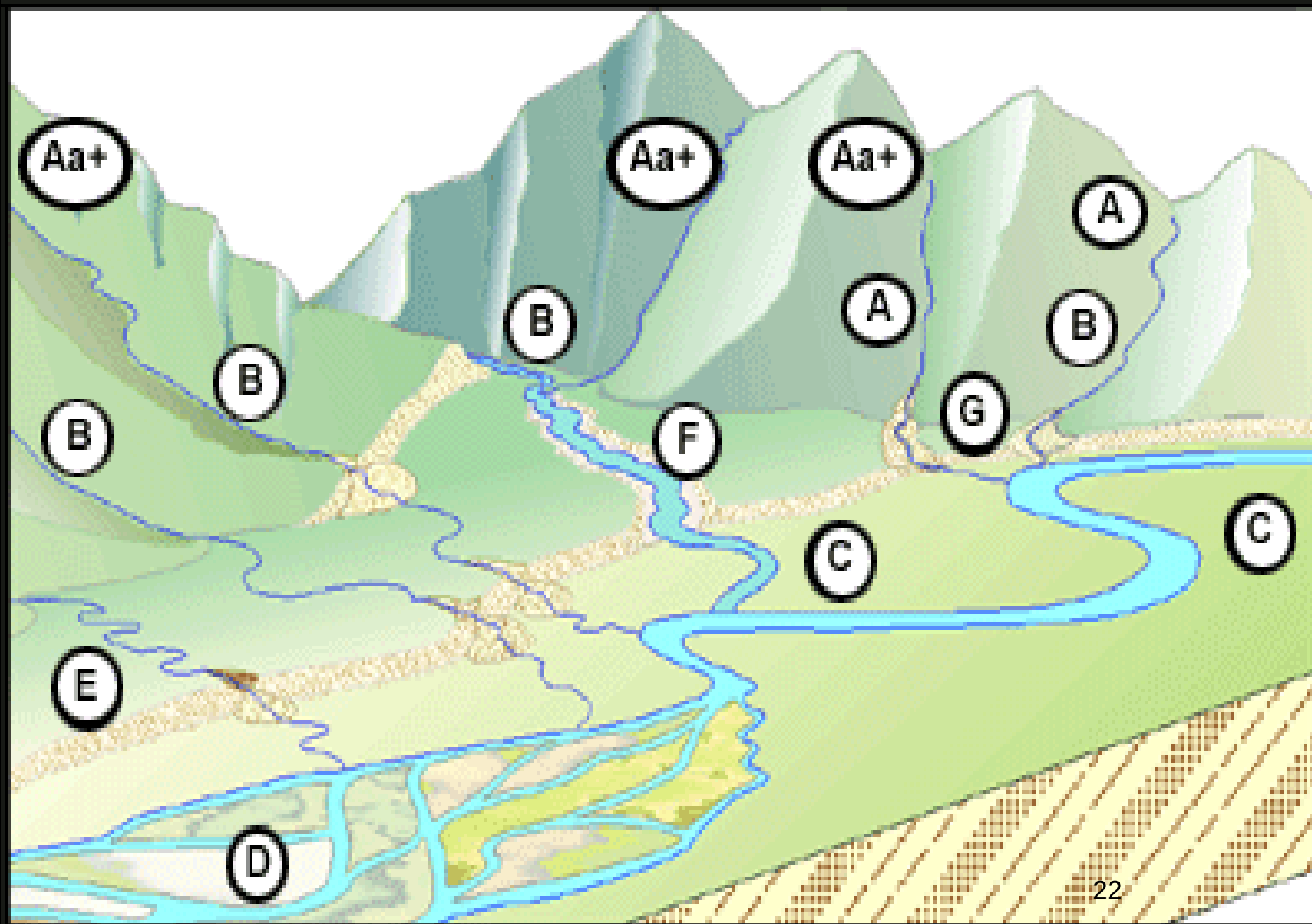
Longitudinal, cross-sectional and plan views of major Level I stream types

dominant
slope

cross
section

plan
view





Riparian Vegetation



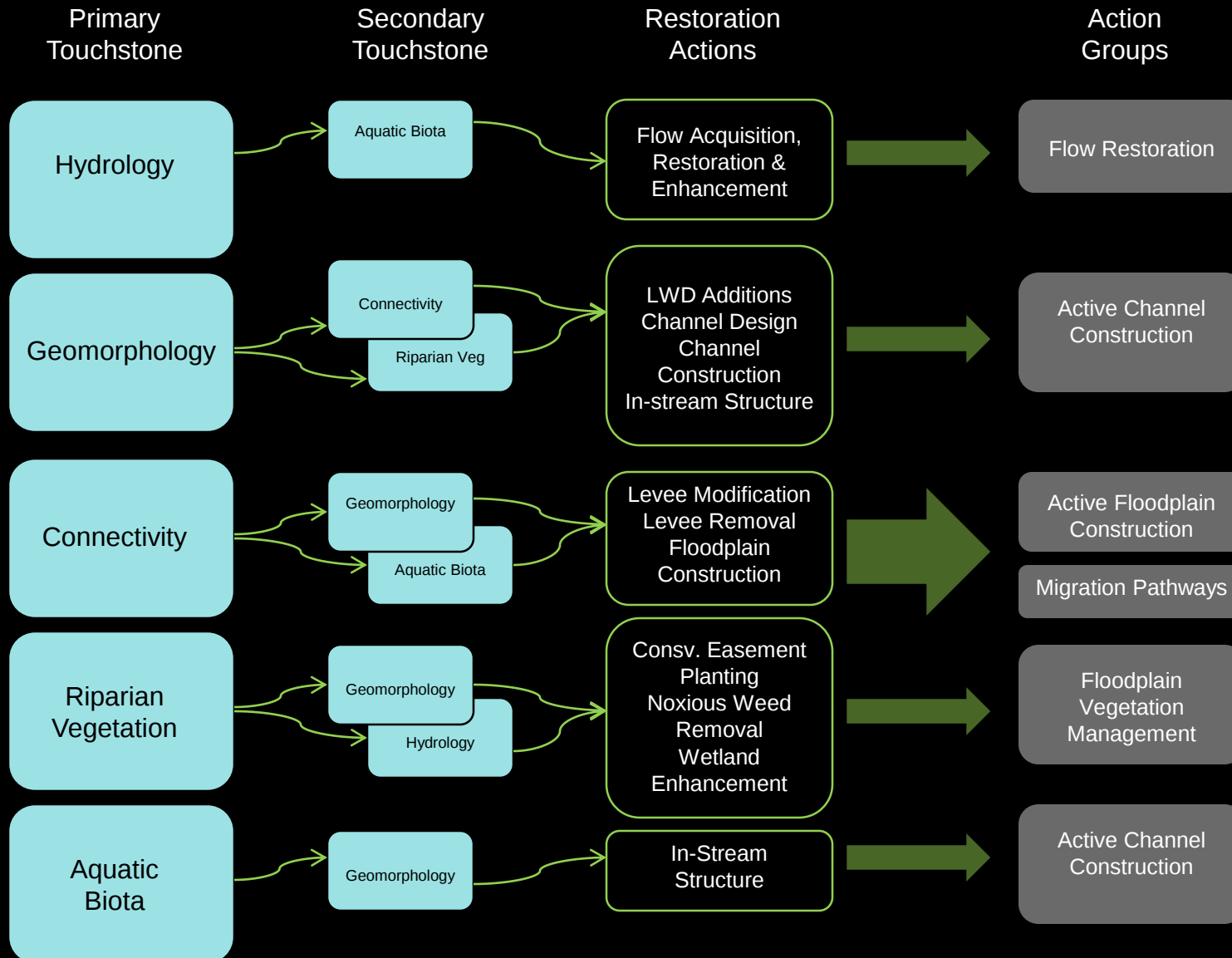
Native Vegetation – Large Wood Inputs, Other

Aquatic Biota



Healthy Native Species

Vision Application: Fisheries Habitat





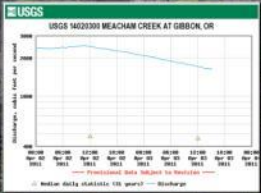
S-Fork Walla-Walla River Rd

1835 ft

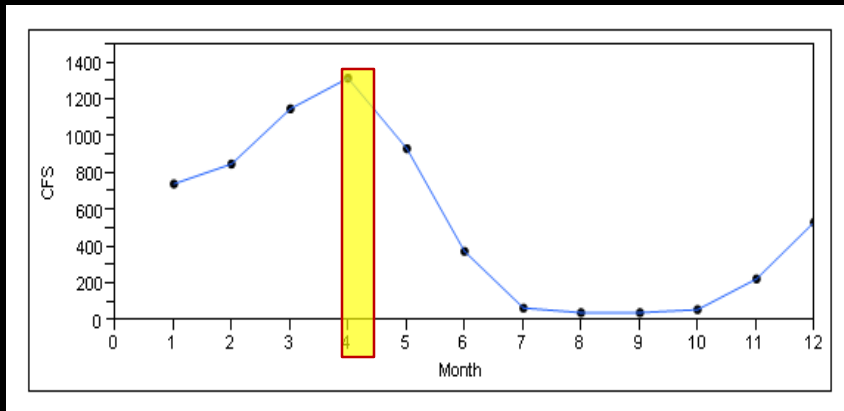
© 2016 Google

Google earth

Vision Application



April 3, 2011



April 5, 2011



April 2012



Touchstone Correlation Examples

Restoration actions are intended to directly address touchstones.

Hydrology - Increased quantity and quality through floodplain storage

Geomorphology - Channel meander development, LWD additions

Connectivity - Levee removal and floodplain activation

Riparian vegetation - Land acquisition and use changes, vegetation management

Aquatic Biota - Remove physical migration barriers, increased productivity of habitat

