

Department of Natural Resources <u>Mission Statement</u>

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:

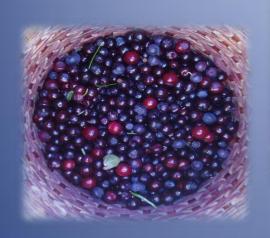
- 1) population and habitat management goals and actions; and
- 2) natural resource policies and regulatory mechanisms.

Extending the Table

Serving Order

5 **Salmon Huckleberry Water** <u>Deer</u> Cous Chokecherry Chinook **Mule Deer** Celery Coho RM Elk **Camas** Sockeye **WTD** Steelhead **Bighorn** Mtn Goat Lamprey Mussels Bison **Trout** Moose Whitefish Suckers Women's Foods Men's Foods

Women's Food













Issues

- Loss of habitat
 - Land conversion
 - Plant Community transition
 - overgrazing, invasive species
 - Land management (i.e. fire suppression)
 - Energy Development
- Access to gathering areas
 - Ownership, roads, locked gates, fencing
- Competition
- Climate Change

"Food Associated" Culture

Access

First Foods



Teaching Learning

Harvest

Preparation

Consumption

Celebration

Sharing

Care (Reciprocity)

Physical + Ecological Processes



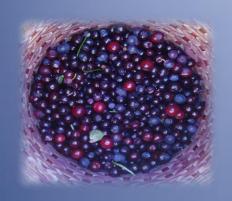
Environmental change and resilience







Predictable Weather Patterns















First Food Celebrations

Celery Feast

Root Feast

Huckleberry Feast





Traditional Phenological Knowledge









Climate affects all plants

Physiological responses

- Plant community interactions
 - Diversity and distribution

What Food Gathers Observing



Species specific response

The change of cáwš sites to either other forbs or invasive grasses



Dormancy

Productivity

-Low or no berry production



Unpredictable Weather

"At beginning of harvest time, we would worry about snow or rain when gathering, now we don't know what to expect....either unusual warm temperatures or wet conditions"

Shorter winters and less snow



The branches on huckleberry bushes appearing stripped of leaves and berries

Altered flowering time

pyací is collected at vegetative stage before flowering



Shorter Gathering Season

"My mother and I could collect cáwš until August"

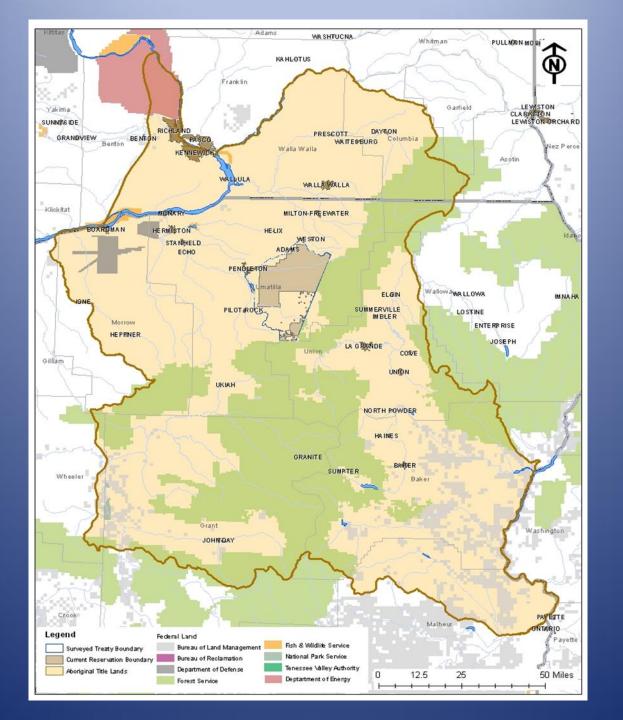


Plant Community Interactions



Gathering areas for Women's food increase in importance if/when food distribution changes

Women's Food Assessment



Partnership with Federal Agencies

U.S. Forest Service

Bureau of Land Management

 Umatilla National Forest Vale District

First Food Modeling

 CTUIR utilized ArcGIS to develop a landscape level model that combines derived geographic information with field inventory data to identify habitat that support 5 food plants

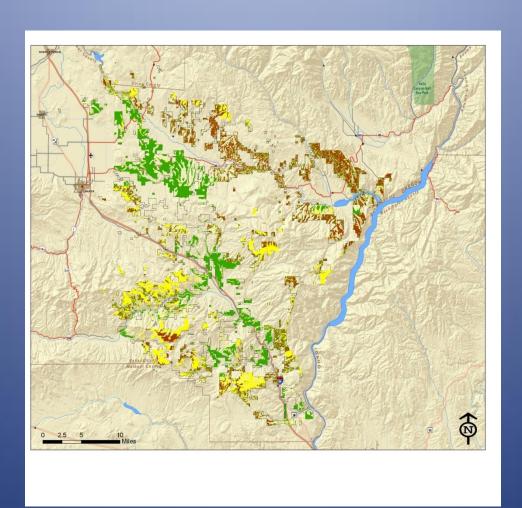
Goals and Objectives

 Preserve, manage and restore gathering locations throughout the Ceded lands for Tribal Members

 Identify additional gathering locations for Tribal members on USFS and BLM properties within CTUIR Ceded Land

- Develop informed knowledge on the distribution and condition of 'selected species' throughout the Ceded area.
- Develop coordinated management of 'selected species' with both federal agencies, USFS and BLM.

BLM Project



Data Sharing Agreement

The use of this information is protected by data sharing agreements drafted by the Tribe and signed by the USFS and BLM

Collaborative Efforts

CTUIR is continuing collaborative effort to develop plant community information and GIS datasets about three culturally important plant species which are impacted by land use, invasive species, and climate change.

Enhancement of collaboration



Conservation
 assessment on rigid
 sagebrush plant
 communities that
 support First Foods

Huckleberry

- Traditional Use Report -the conditions and components of huckleberry stands within the Blue Mountains, concerns about the impacts of climate change on productivity and descriptions of tribal management for productive huckleberry stands
- Literature Review inform the gap in scientific knowledge about huckleberry occurrence and management for productivity

Huckleberry continued

- Collaborative development of distribution maps through compilation of existing USFS data on current and potential distribution of huckleberries
- Evaluate the effects of alternative management and climate change scenarios for huckleberry

First Food Management

· Reciprocity (First Food Promise)

· Ecosystem resilience and sustainability

Maintaining Access

Acknowledgements

Food Gathers

CTUIR Staff

· Stacy Schumacher, GIS Program

Partners

- USFS Umatilla National Forest
- BLM Vale District