Kootenai River Subbasin & KVRI

- Part 2 -

2021 IGBC Executive Cmte. Meeting June 15-17, 2021

Scott Soults, Kootenai Tribe of Idaho





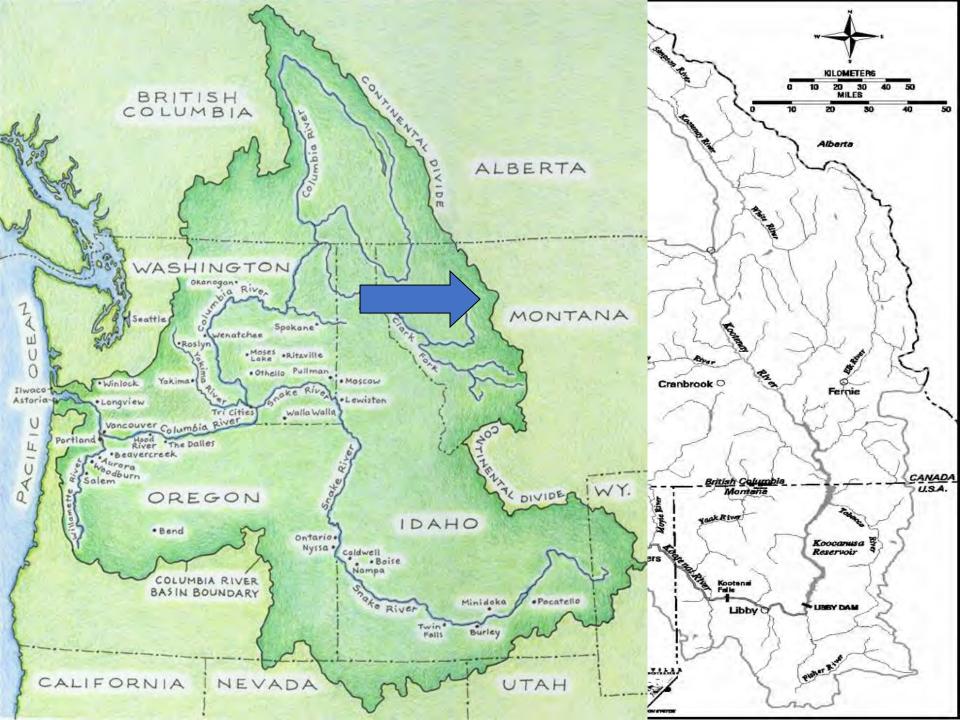


Topics

Kootenai Valley Resource Initiative (KVRI) may be limited to Boundary County, but local community understands the Kootenai River (Subbasin/Watershed)

Considerations of Subbasin/Watershed issues:

- History & European Settlement
- River Alteration and Regulation
- Affected Environments
- Diverse KVRI Committees and Interaction

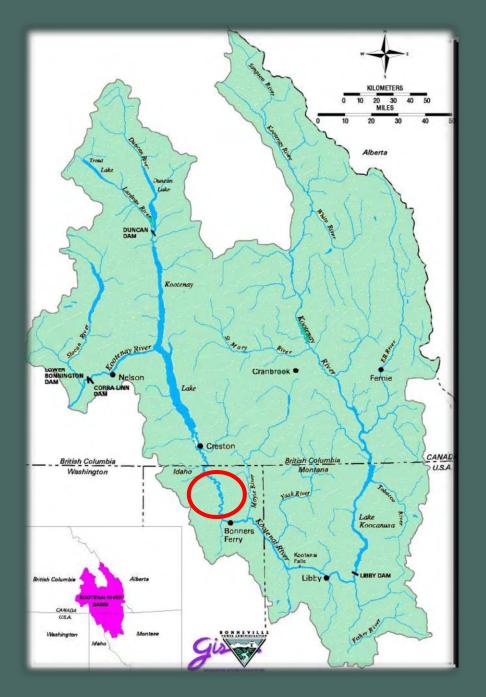


Kootenai Aboriginal Territory

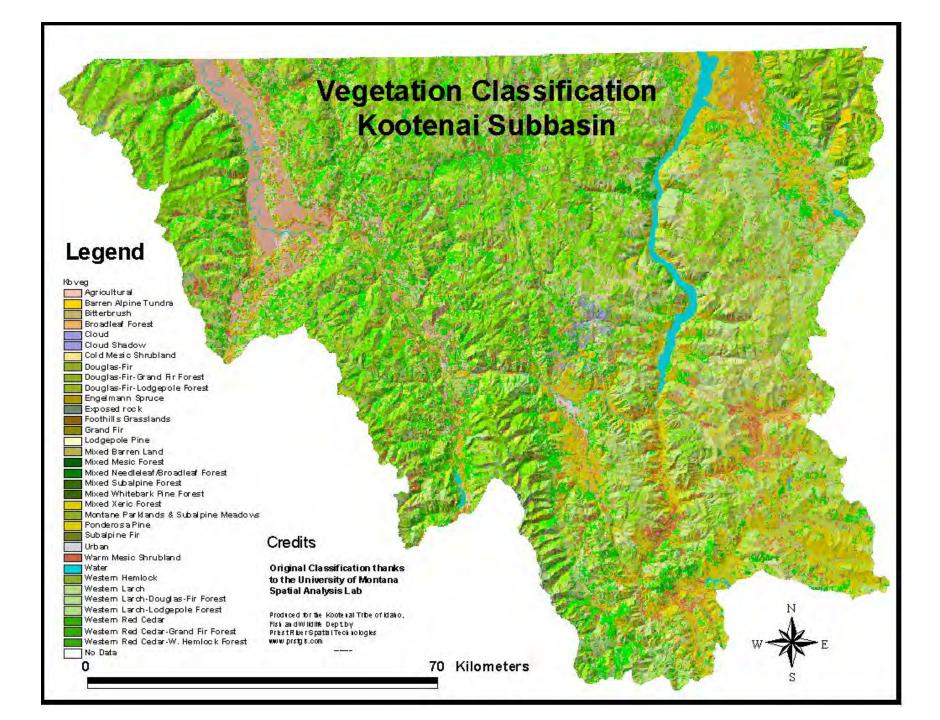


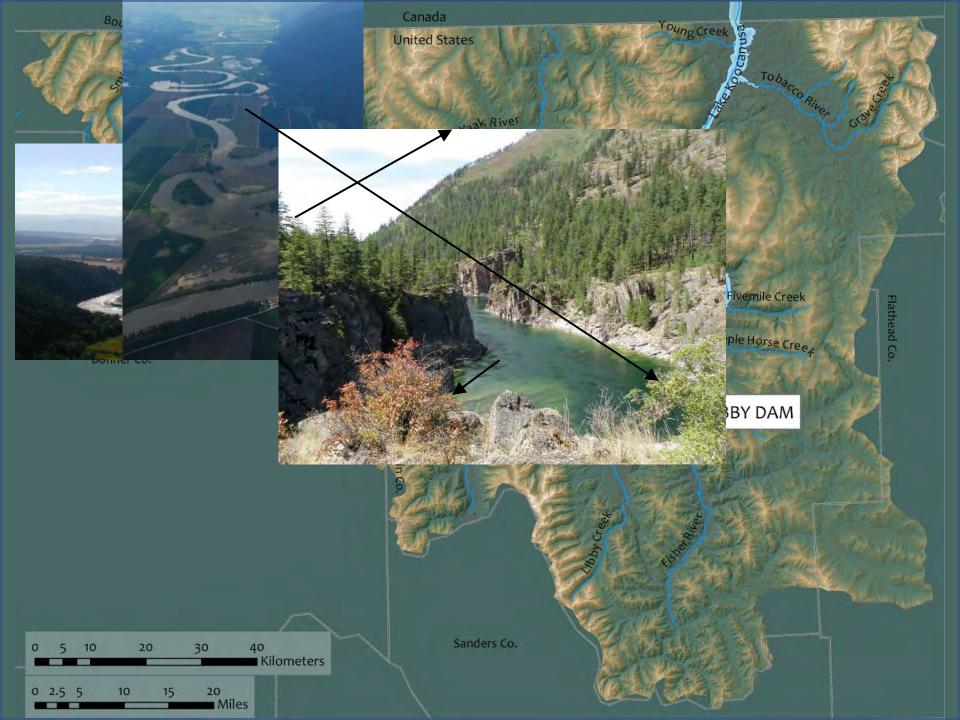
Kootenai River Subbasin

- 9 million acres(19,420 square miles)
- 480 miles long
- 2 Countries
- 2 States, 1 Province
- Endangered Species
- Hydropower
- Resource based economy









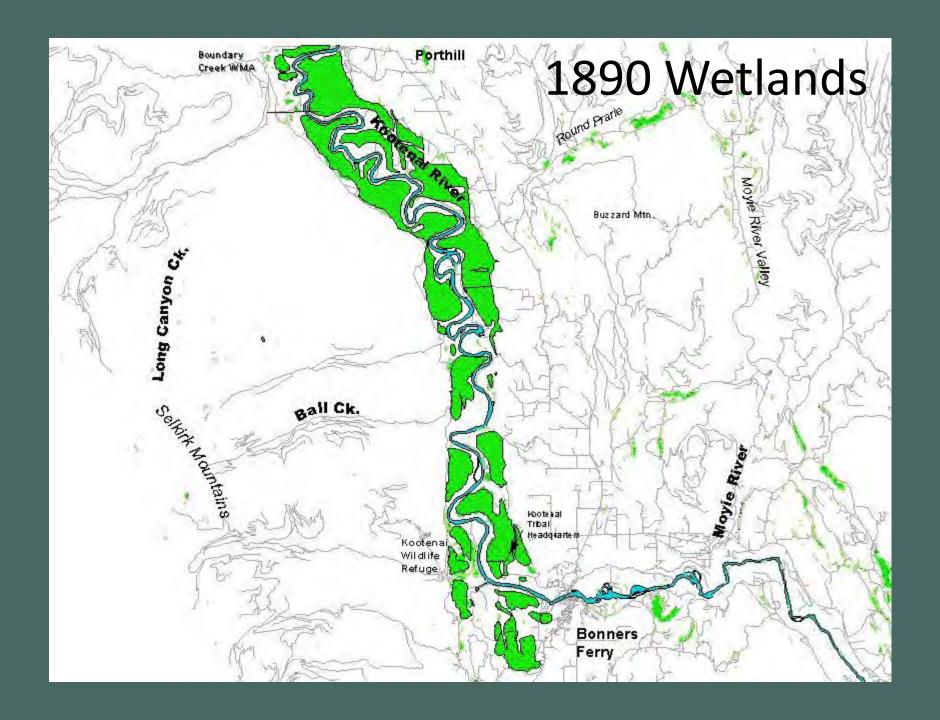
Lower Kootenai River Watershed

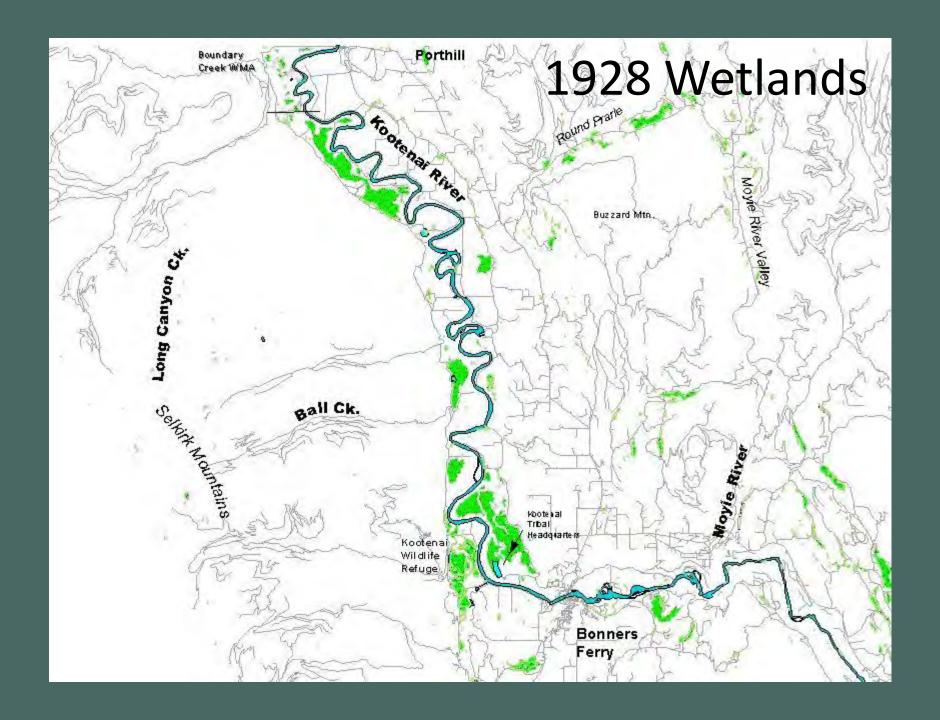
Prior to European settlement the Kootenai River watershed, with its riparian forest and wetland complexes, was one of the most productive in Pacific Northwest

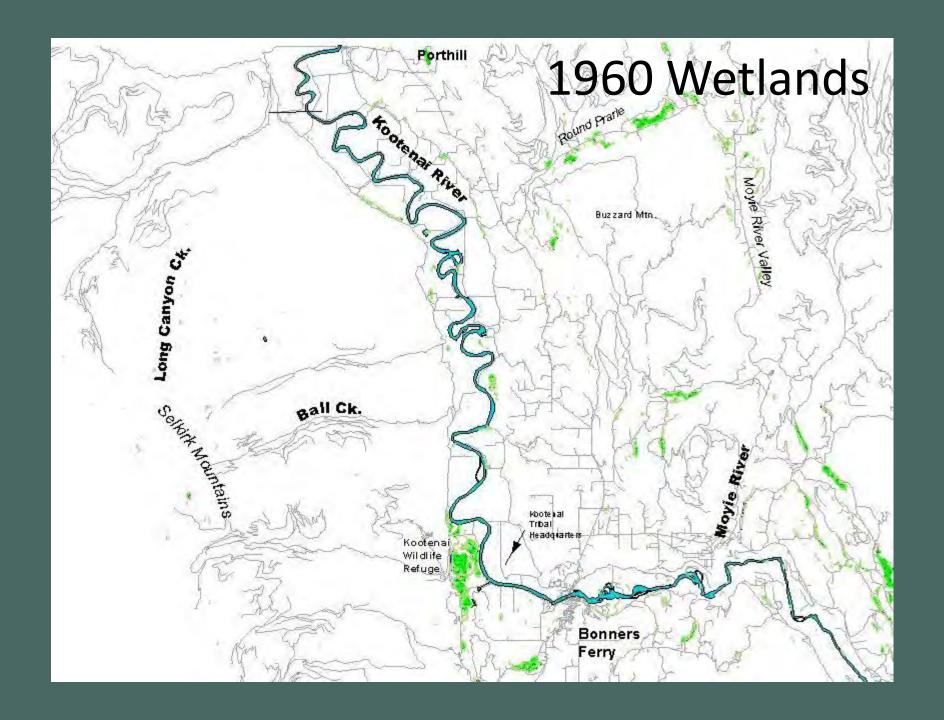


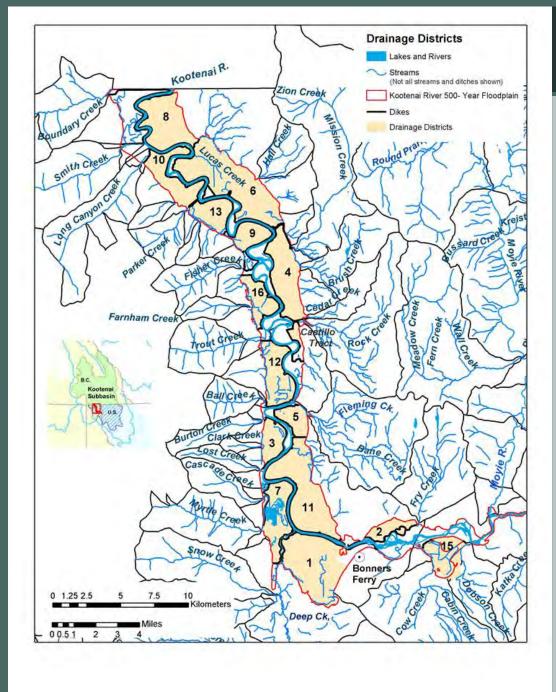


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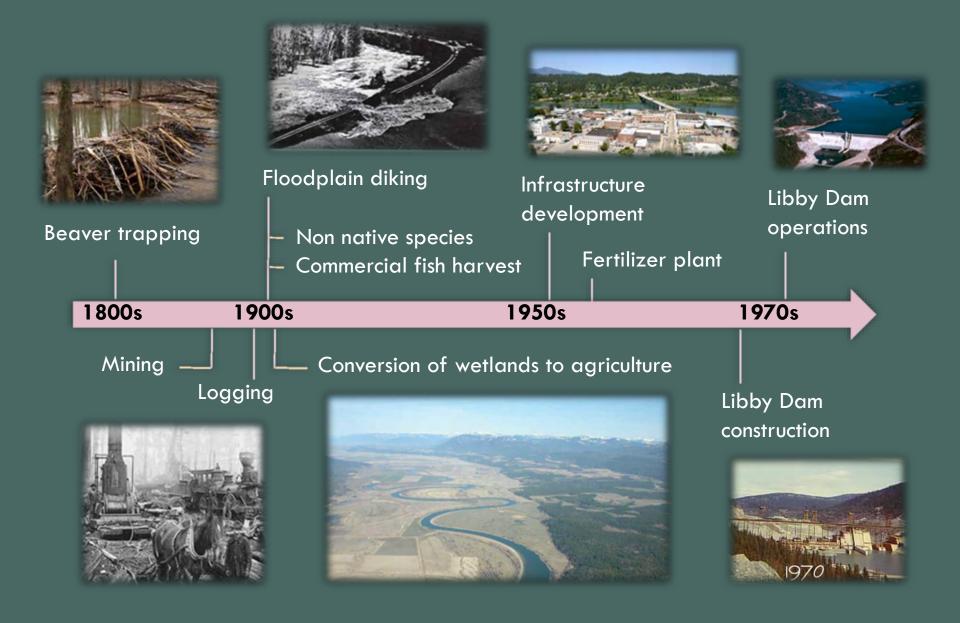


Dike Districts

Districts: Dates:

- 1. Aug. 16, 1920
- 2. June 7, 1924
- 3. May 31, 1924
- 4. June 7, 1924
- 5. Nov. 17, 1924
- 6. July 15, 1925
- 7. Aug. 14, 1925
- 8. Dec. 9, 1925
- 9. Jan. 4, 1926
- 10. April. 11, 1927
- 11. Aug. 22, 1927
- 12. Sept. 20, 1929
- 13. Aug. 4, 1930
- 14 Aug. 14, 1935
- 15 Feb. 21, 1947
- 16 Feb. 21,1947

Changes to Kootenai River Subbasin



Recruitment Box Model



Figure from:

Rood, et. al. 2005. Managing river flows to restore floodplain forests. Frontiers of Ecology and The Environment.

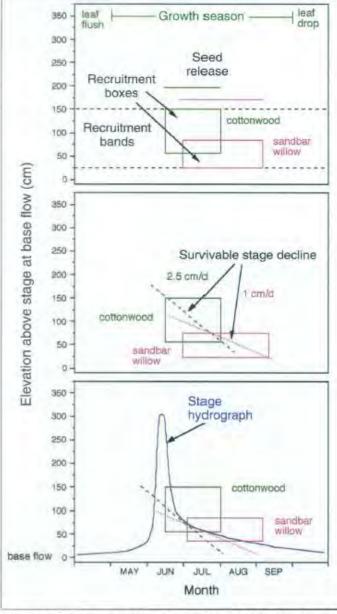


Figure 2. The riparian "Recruitment Box Model" that describes the seasonal streamflow pattern, associated river stage (elevation), and flow ramping that will enable successful seedling establishment of cottonwoods and willows. Figure modified from Amlin and Rood (2002).



Species of Concern



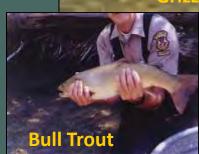
















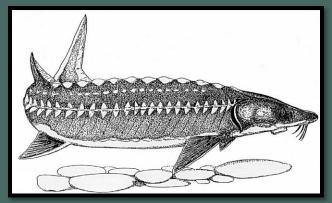


South Arm Kokanee

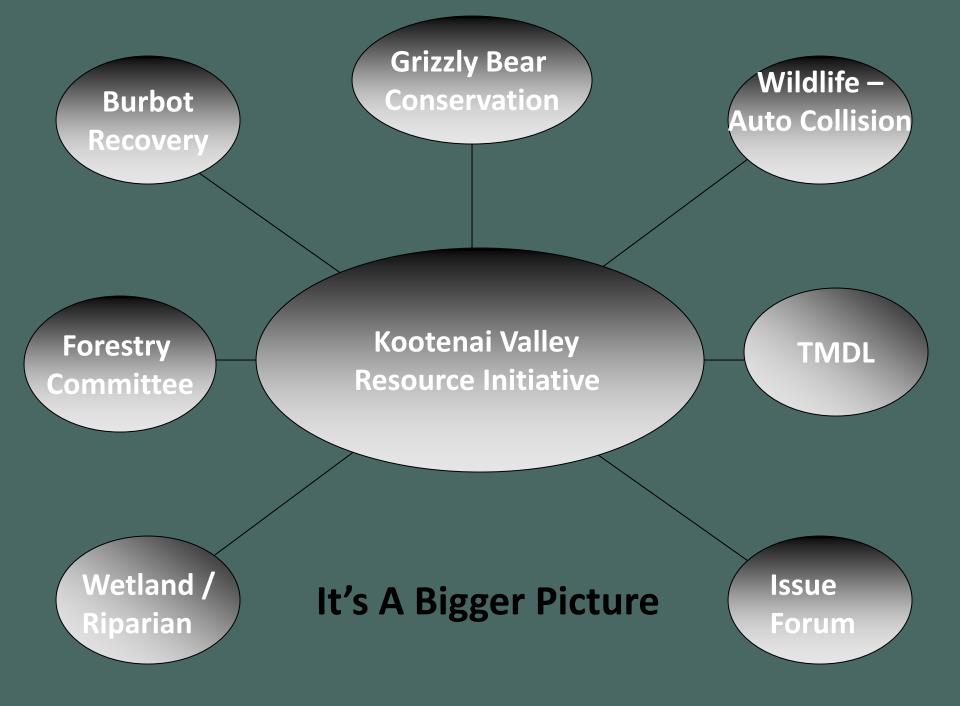
Examples of Affected Environments

- Marginal recruitment/establishment of riparian hardwoods
- White sturgeon listed endangered in 1994
- Non-sustaining burbot and kokanne populations
- Significantly diminished grizzly bear spring range habitat
- Decrease in raptor and cavity nesting habitats
- Small isolated beaver populations
- Altered ecological functions in Riverine Wetlands (e.g. overland flows, sediment, carbon cycles)
- Alterations to Forested and Alpine ecosystems









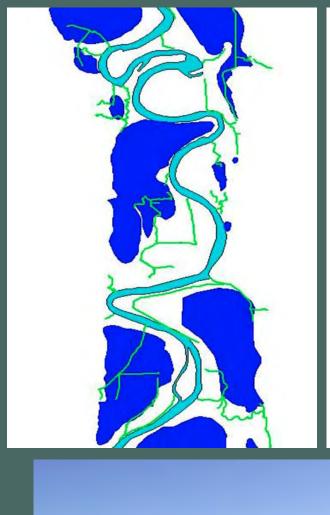
Wetland and Riparian Committee

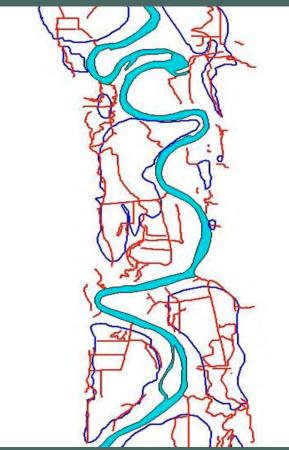
15-20 Members

Balancing social, natural resources, and economic perspectives

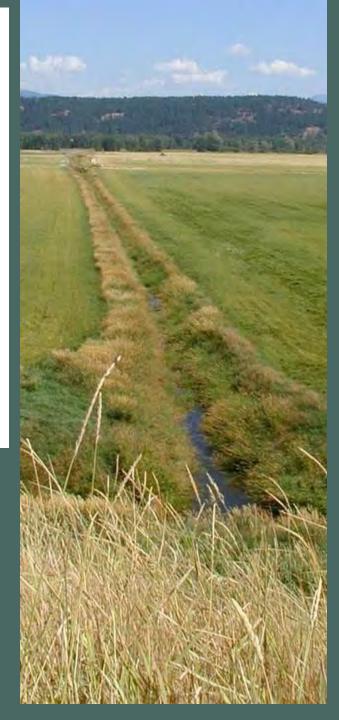
- Links information about wetland and riparian areas to community values and issues of concern
- Support integration of community needs and values in development of projects and programs











Forestry Committee

30 Members

- Addressing forestry resources with our community using a landscape approach
- The long term goal is to make Boundary County National Forest lands ecologically, economically, and socially sustainable
 - Science-based Expertise
 - ➤ Partnerships developing common ground, local/social support, and areas of agreement for management



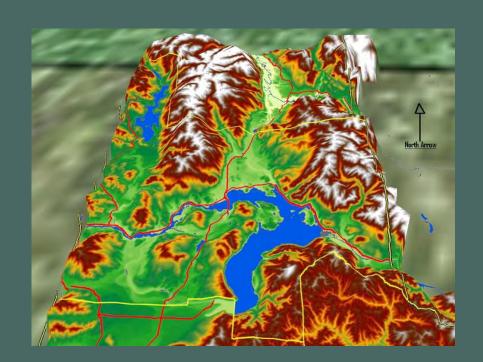


Wildlife-Auto Collision Committee

30 Members

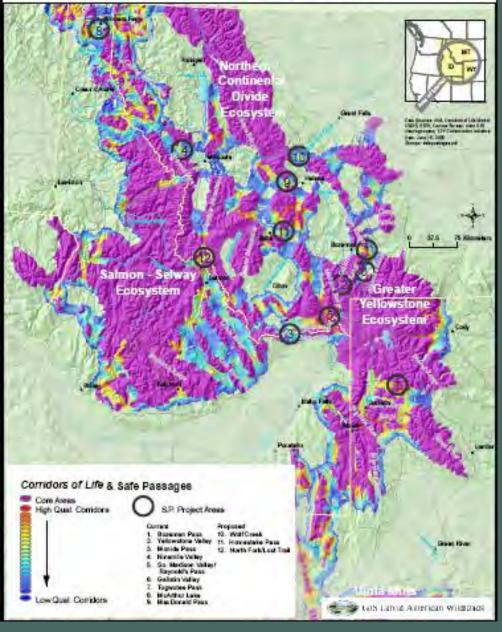
KVRI provides an effective conduit for reaching out to the community for feedback and guidance in considering ways to reduce wildlife conflicts and build support for transportation mitigation efforts.

Much of the County is a wildlife corridor



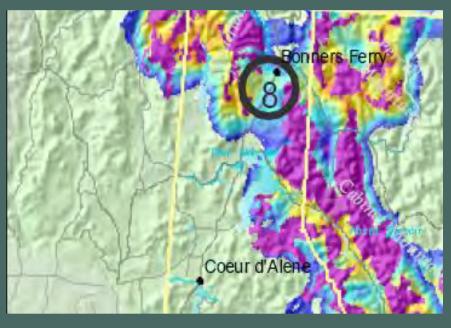


Safe Passages - Securing Highways for Wildlife and Human Travelers



American Wildlands Corridors of Life

- > Connectivity
- Genetic
 Interchange
- > Migration
- > Permeability



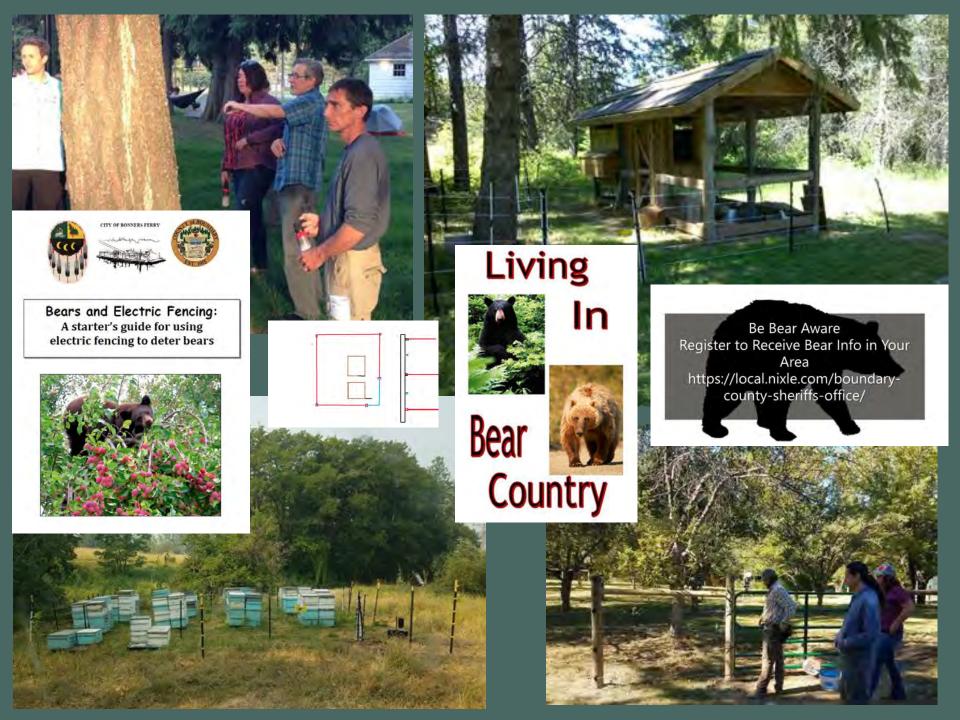
Grizzly Bear Committee

30 Members

Committee formed to serve as a forum to educate ourselves and our community on Grizzly Bear Management and to determine opportunities for a role in that management.



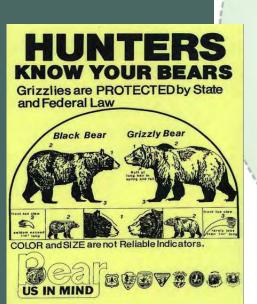




Prospective Realization

Kootenai Valley Resource Initiative (KVRI)



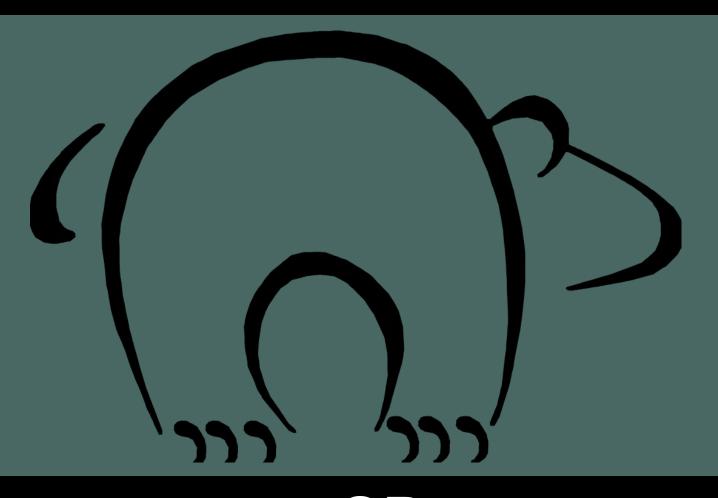








The End



...OR
Just the Beginning