

Your assignment

- Compare and contrast 3 watersheds.
- Predict the changes in vegetation and landscape composition resulting from the 2007 wildfire
- Identify and analyze an additional ecological question

















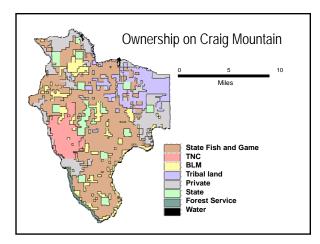






Biologically Rich

- More than 200 different bird and mammal species are found here.
- Riparian areas are the richest in animal and bird species.
- Some streams support steelhead and red-banded trout.
- Numerous plant taxa found only in Hells Canyon.



Land Ownership	(Percent area)
Idaho Fish and Game	45
Bureau of Land Mgt	10
Forest Service	1
The Nature Conservancy	8
Idaho Department of Lands	9
Nez Perce Tribal lands	11
Private	18

Management issues

- Changing focus from individual game species to multiple species and biodiversity
- · Sensitive species
- Wildfire and the use of prescribed fire

Invasive species

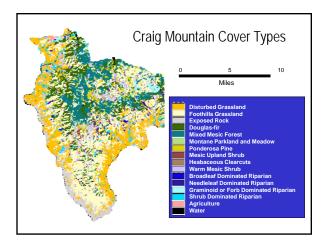
- Weeds threaten ecological integrity
 - grasslands and open forests
 - invertebrate and vertebrate species dependent on those habitats
- Currently, invasive species include: yellow starthistle, common crupina, leafy spurge, Scot's thistle, cheatgrass, and medusahead

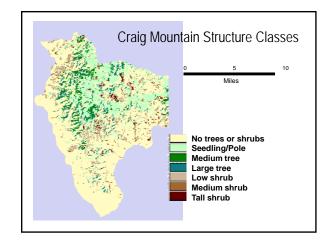
Legacy of the past

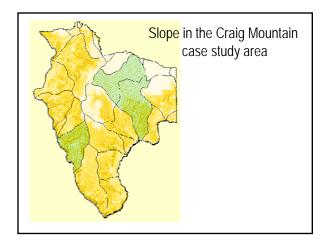
- Riparian and flatter areas were once homesteaded and used for cattle grazing, pasture, crops.
- In the 1930s, there were several post offices, 5 schools and up to 50 homesteads in Hells Canyon.

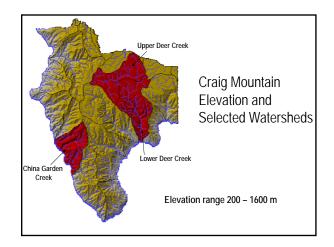
Data for analysis

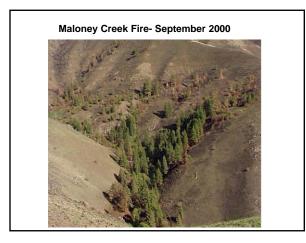
- Vegetation
 - Current and historical cover type (1km2)
 - Current cover types (30 m)
 - Current tree and shrub size class
- TopographyRoads and streams
- Roads andSoils
- Ownership
- Maloney Creek Fire severity
- Some invasive

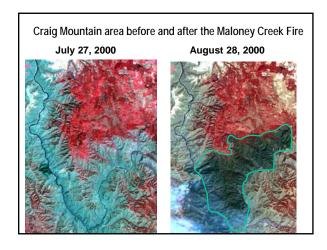


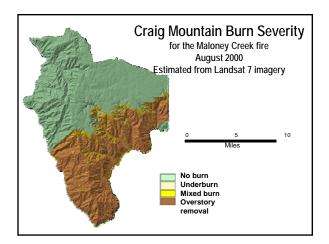


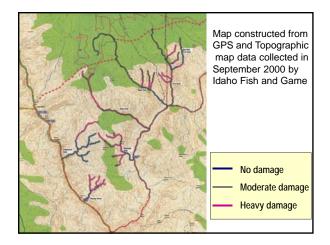




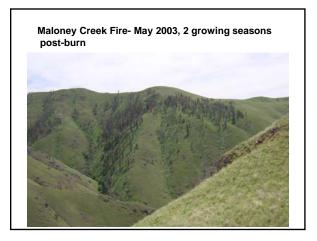






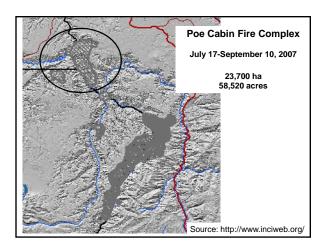


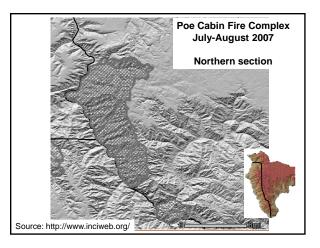












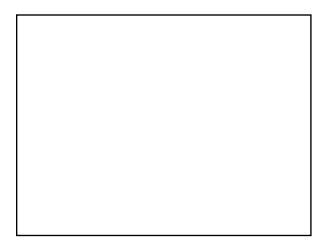
Considerations in the development of the team-developed analysis objective:

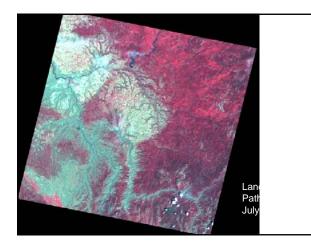
Is it a spatial question?

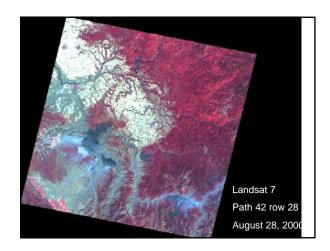
Is the scale of Craig Mountain WMA, or a subset of CMWMA, adequate for analysis?

Are there spatial and temporal data to support the analysis?

Have adequate literature been published to support the analysis?







A Landsat TM Radiometric Measure of Burn Severity

$$NBR = (R4 - R7) / (R4 + R7)$$

http://nrmsc.usgs.gov/research/ndbr.htm

