Stewarding Kettle-Granby Grizzly Bear Recovery Through Connectivity

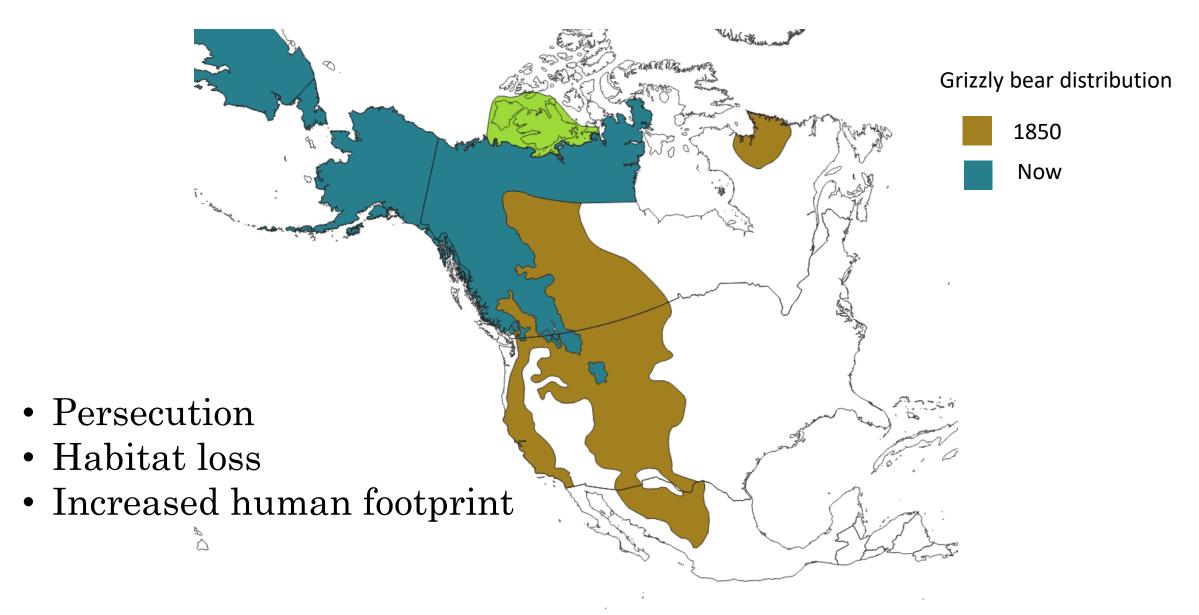
Michelle McLellan

The Ripple Effect Forum
Grand Forks BC
2025

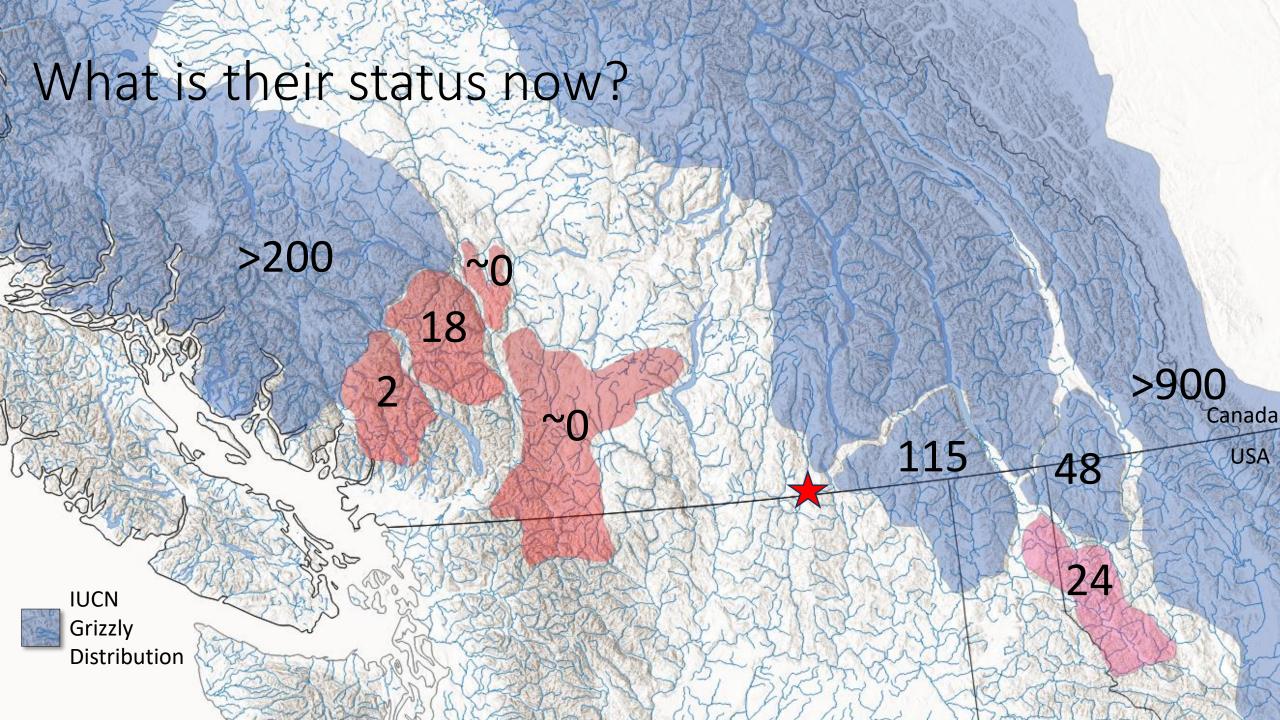


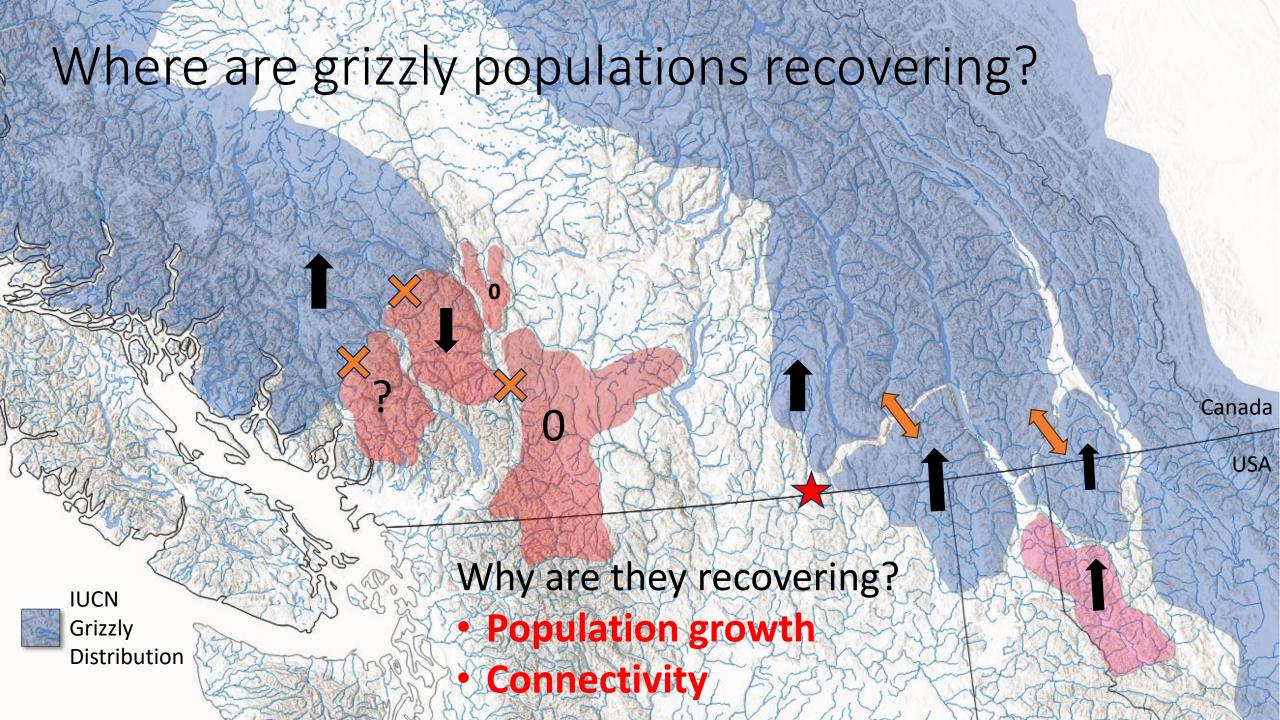


What are they recovering from?



Source: IUCN 2017

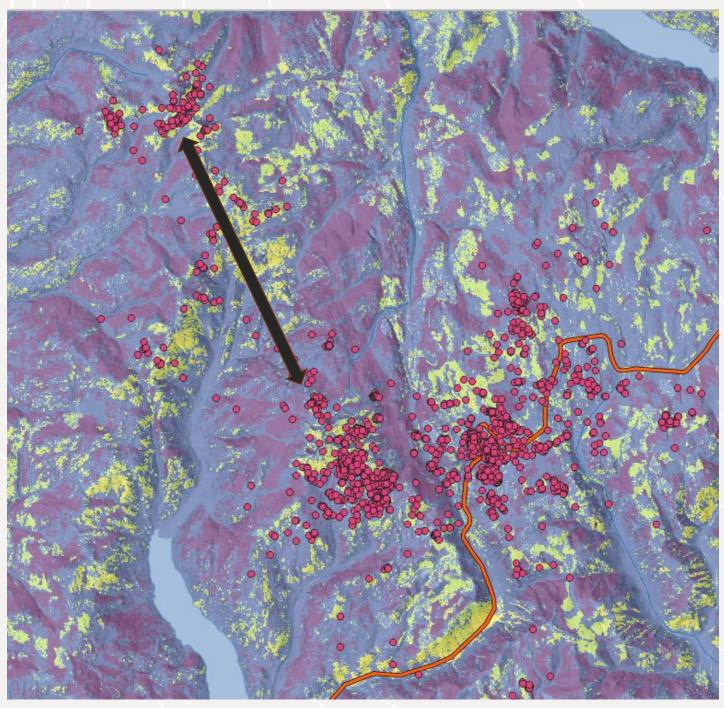




What is connectivity?

The degree to which the landscape facilitates or impedes movement among resource patches



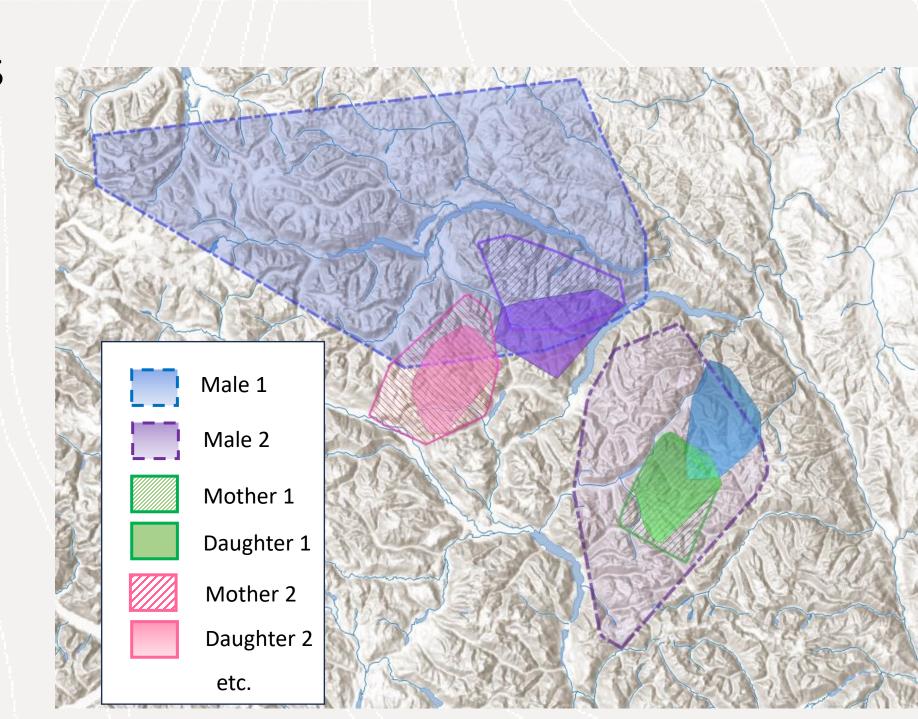


Other reasons to move?

- Reproduction
- Dispersal



Population Function



Where bears don't go or where they don't survive.

What Impedes movement/survival among resource patches?







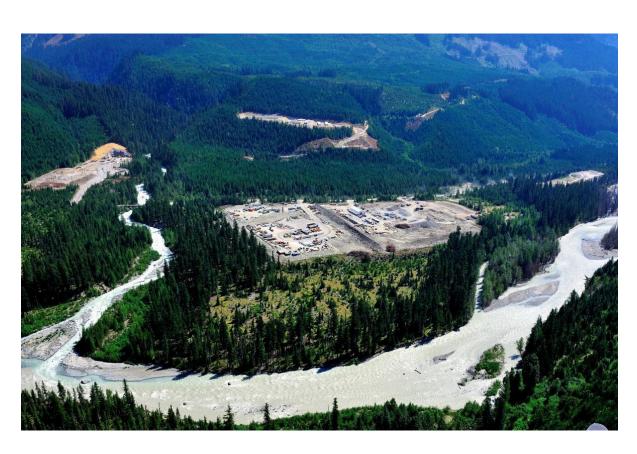




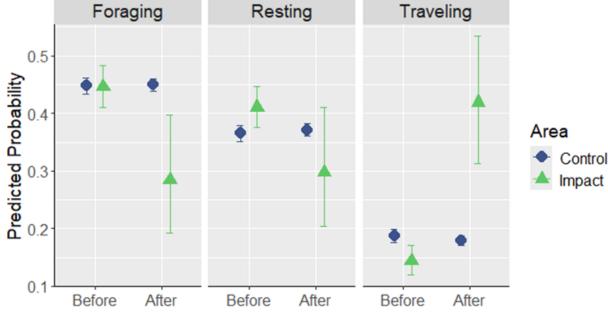




What affects the way the bears move on the landscape? Human use and habitat change



½ the # of bears use the area & those that did changed their behaviour



What is maintaining the fragmentation?

Mostly mortality associated with conflicts

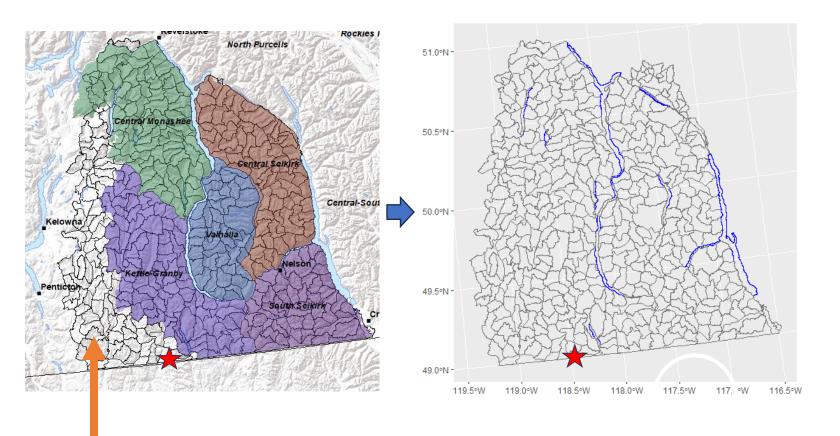




Coexistence is allowing animals to move through without giving them reason to stay



Step One: Work at a Relevant Scale



Biologically Relevant

Home Range Size ~ bears

Culturally Relevant

 Encompassing areas with specific cultural importance

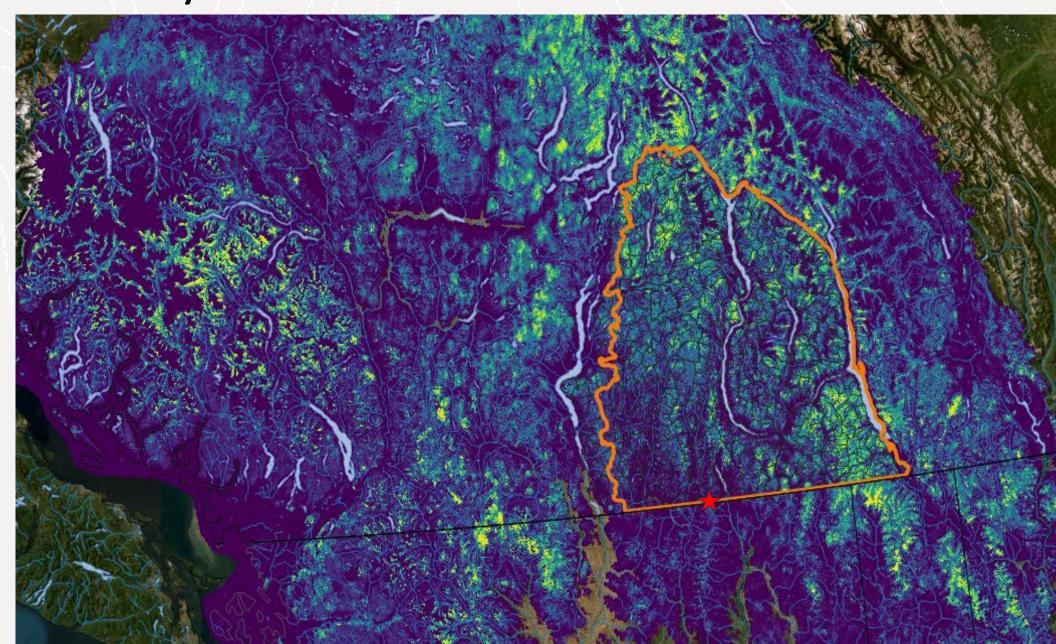
Economically/Socially Relevant

- Other Land-uses
- Parks
- Agriculture
- Highways
- Resource extraction tenures
- Government legal boundaries

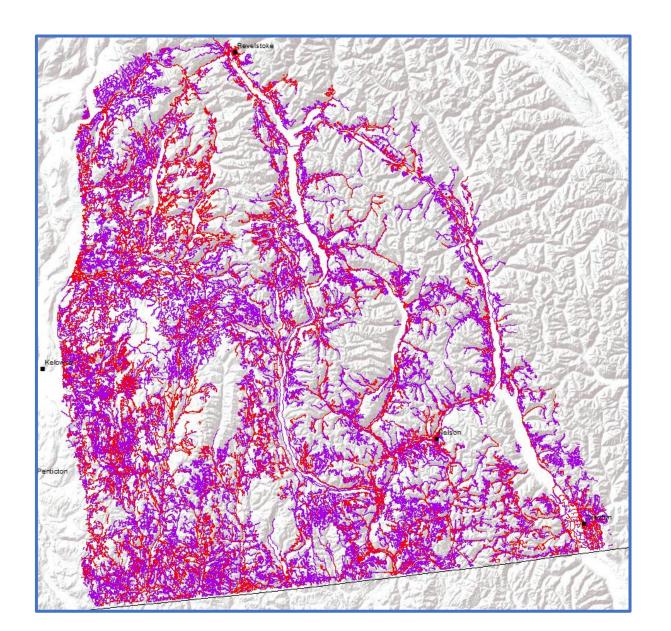
Including Range expansion zone

Step Two: Identify Core Habitat Areas

Use available research & climate models to predict habitat at a broader scale



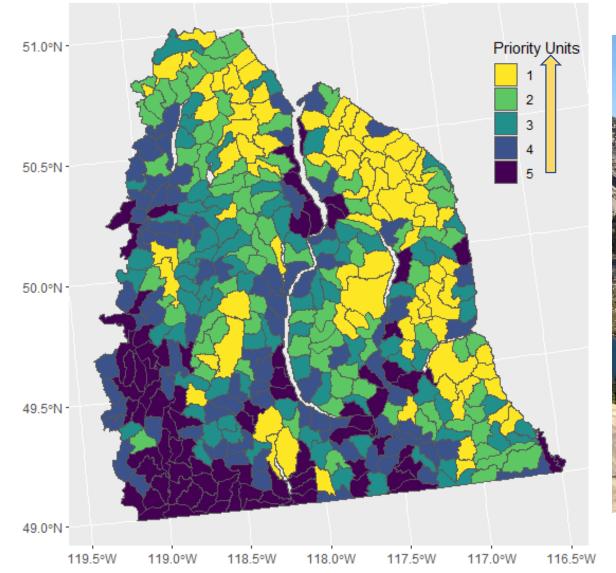
Step Three: Identify impediments to connectivity



- Road Density
- Human Use
- Infrastructure
- Conflict zones



Step Four: Identify Priority Areas for Restoration & Maintaining Connectivity





Broad Scale Action for Maintaining Population Connectivity

- **Provincial**
- First Nation
- **Regional Districts**





Fine Scale Action for Maintaining Population Connectivity

- Provincial
- Regional Districts
- Municipalities
- Communities
- Individuals

Attractant management

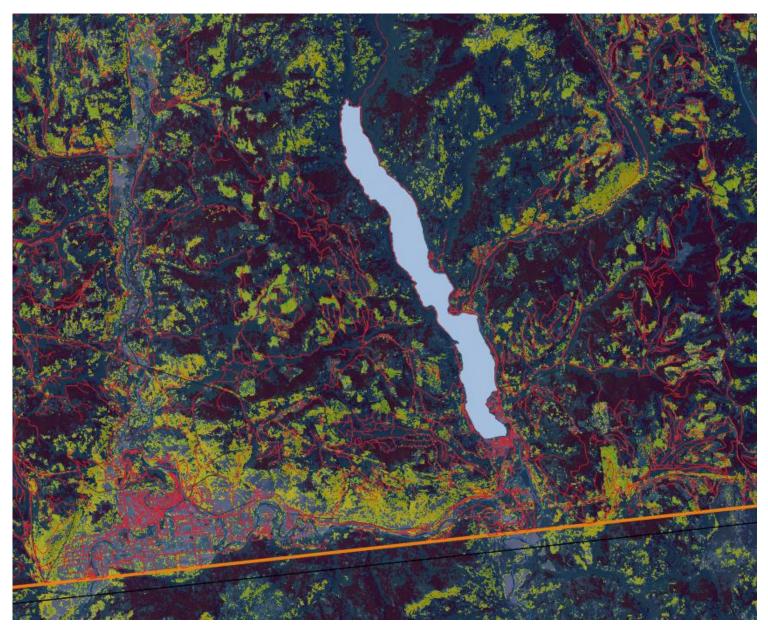
- Incentives & fines
- Infrastructure support
 - Composting
 - Electric fence programs
 - Waste management systems

Agriculturalist Support

- Livestock compensation
- Electric fencing

Individuals-

- -Manage attractants
 - #1 Chickens
 - #2 Fruit Trees
 - #3 Garbage/Compost

















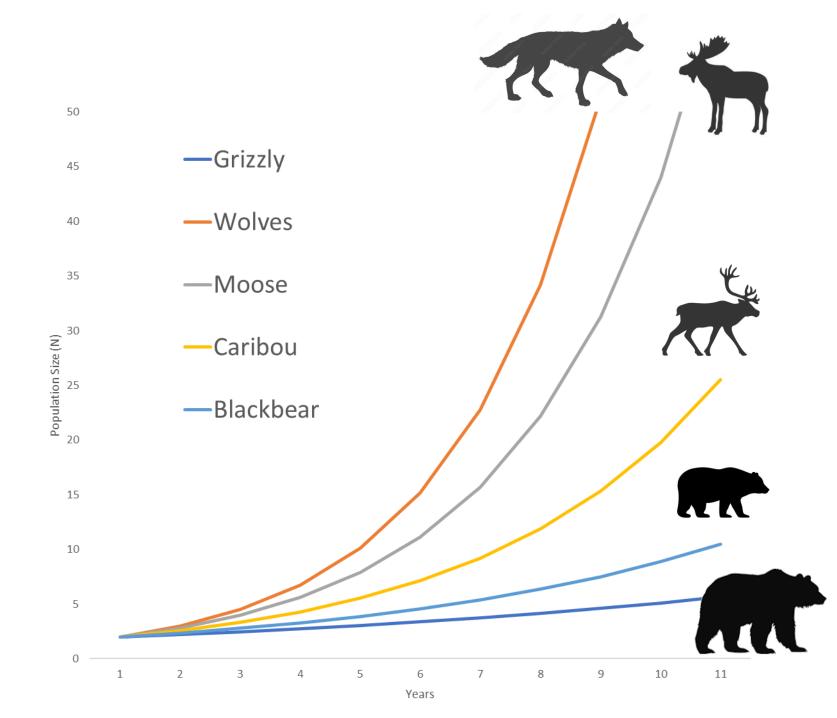


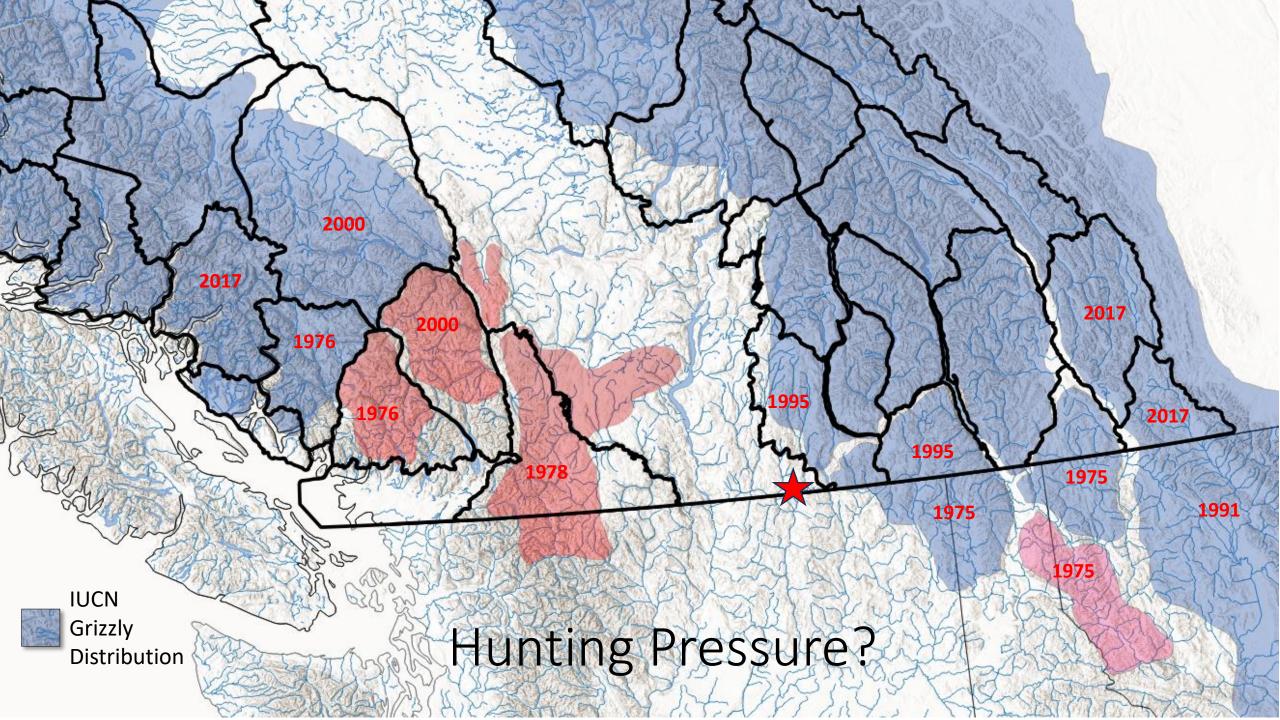






How fast can populations recover in the absence of human caused mortality?





Diet is Seasonal

Bears move to get food















