

Issue

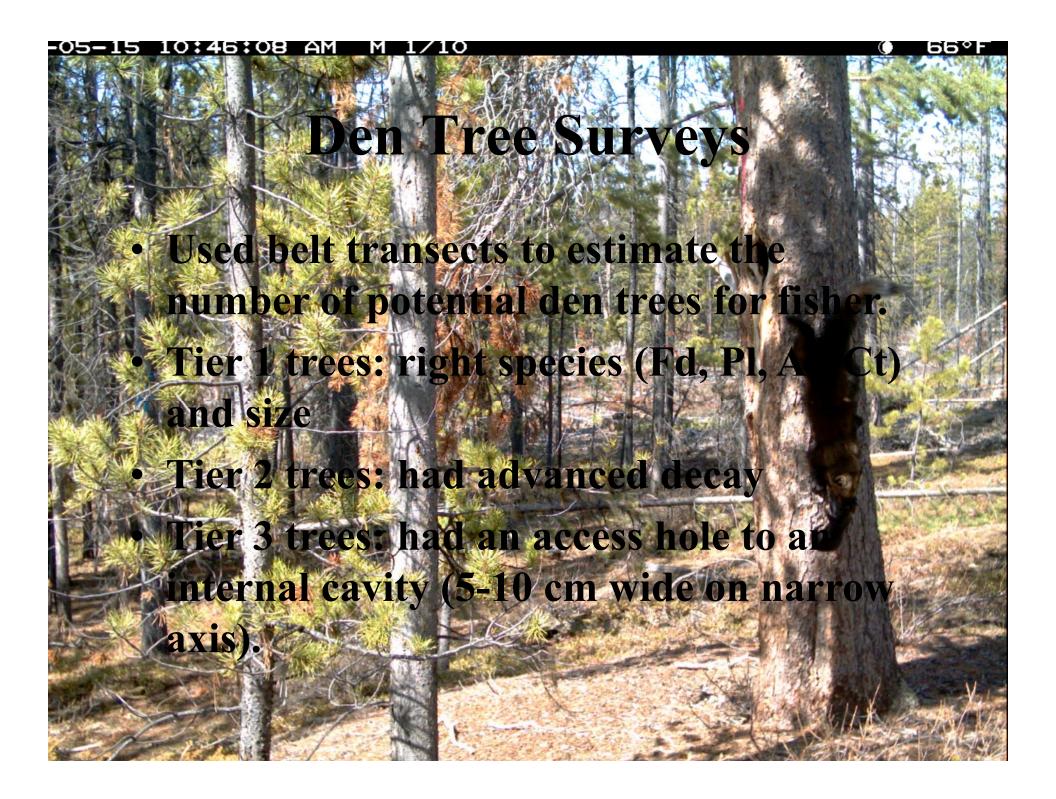
- Fisher are a blue-listed species in BC
- Low reproductive output
- Kits have high mortality rate in first year
- Linked to rare forest elements like hollow large diameter trees
- Habitat losses
- Susceptibility to trapping
- Bridge River Project initiated to study a population at the edge of the species range





Track Transects

- Conducted 4 sessions of tracking using snowshoe and sled in 22 km² cells
- Encountered 72 fisher, 92 marten, and 14 wolvering tracks along 680 km of transects
- Fisher detections in 50% of the cells surveyed



Results:

- Tier 1 2 trees found at 9 trees/ha while Tier 3 trees were found at 0.5 trees/ha.
- Most Tier 3 trees were Douglas-fir followed by trembling aspen in abundance.
- Aspect and QMD variables with greatest predictive ability for Tier 3 trees
- Warm aspects much more likely to have a Tier 3 tree (increase of 23 in odds over a cold aspect)

DNA-based Inventory Project

- Used hair snag techniques to obtain tissue samples.
- Rotated sampling in 38 22km² cells over 4 sample periods
- Conducted sampling in January
 March during time when fishers
 territories are relatively static

Results

Elevations and biogeoclimatic zones (BEC) at species detections in the Bridge River watershed, British Columbia.

Species	Mean Elevation (range) (m)	BEC		
		IDF	MS	ESSF/
				IMA
Fisher	1141 (861 – 1423)	13	3	0
American marten	1309 (822 - 1978)	11	4	8
Red squirrel	1180 (937 - 1439)	9	1	1
Northern flying squirrel	1057 (733 – 1424)	8	1	0
Wolverine	1898	0	0	1

