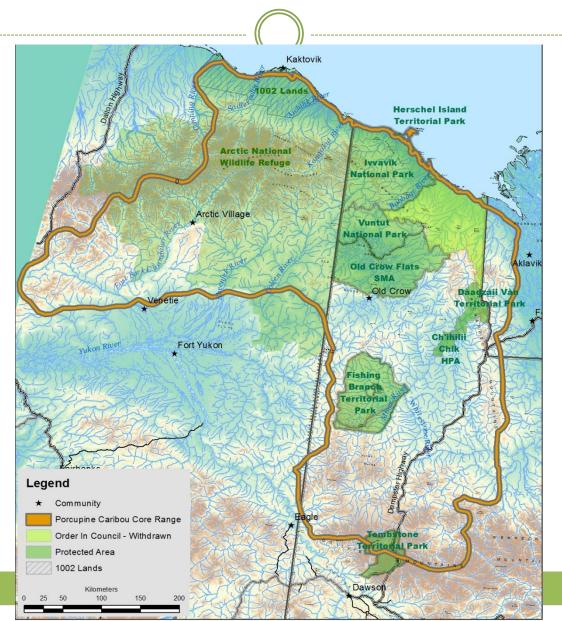
Porcupine Caribou Herd

SUMMARY OF INDICATORS 2024

Presentation to: Annual Harvest Meeting Inuvik, NT February 13-14, 2024 By: Porcupine Caribou Technical Committee

Range of Porcupine Caribou Herd



Population Body Condition Habitat Harvest

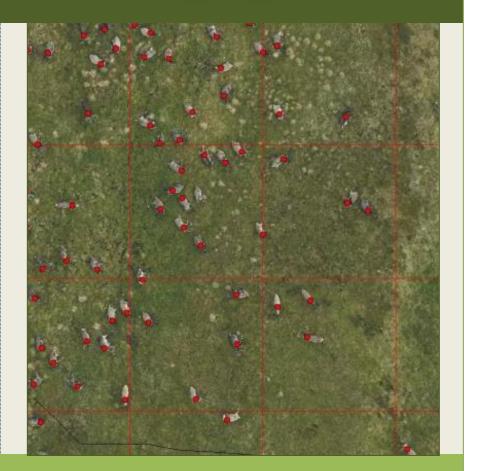


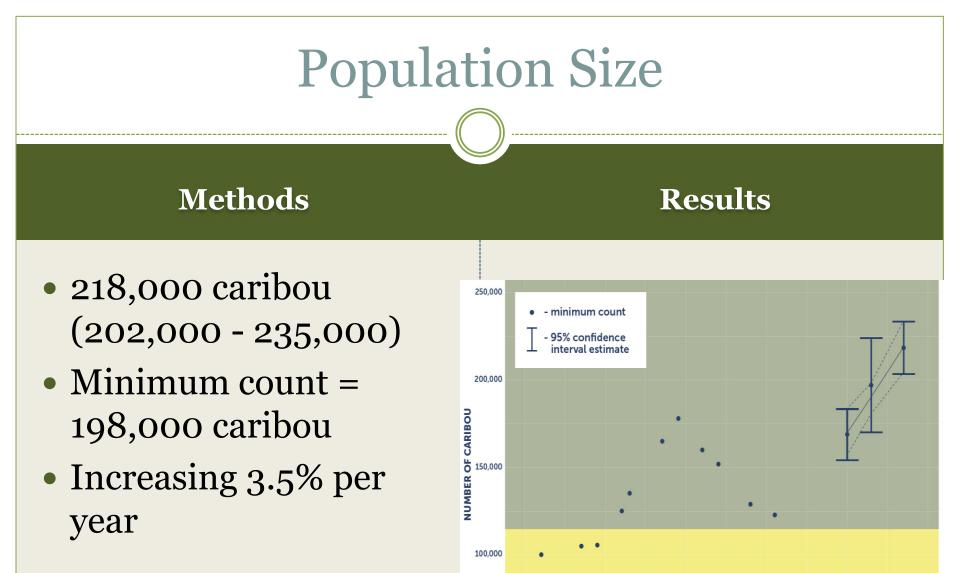
Population Size

Methods

Results

- Count caribou using a photocensus
- Last completed in 2017
- Attempted in 2023
 - Unlikely to get a new number
 - May get a minimum count still

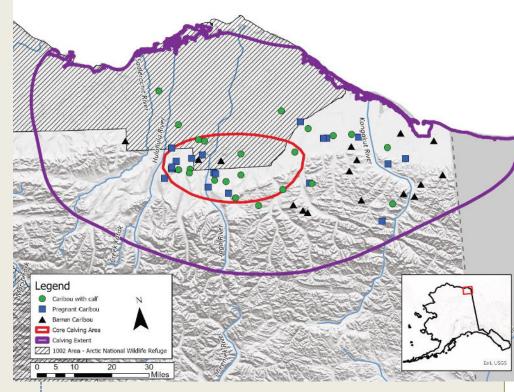


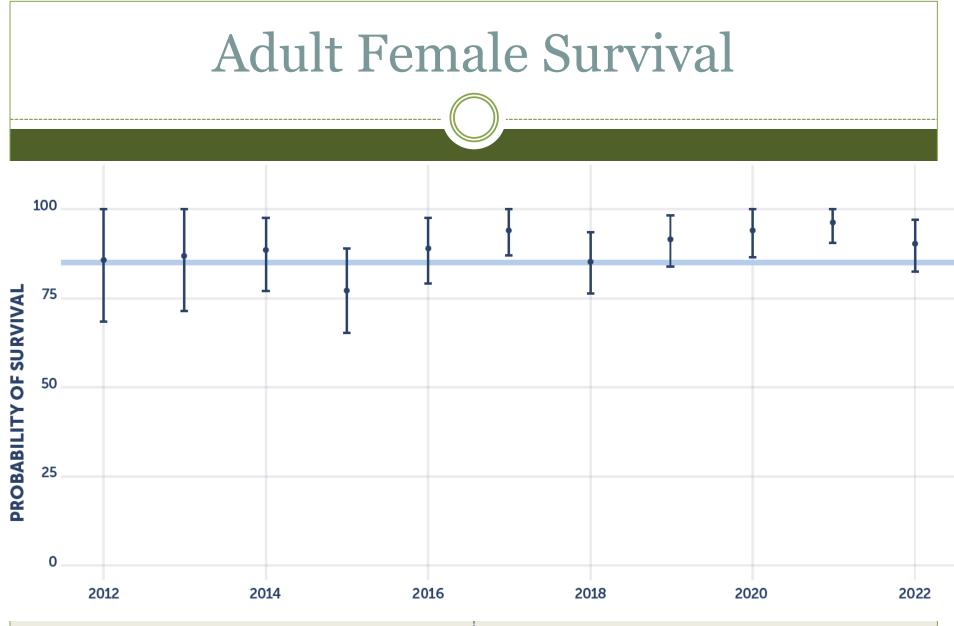


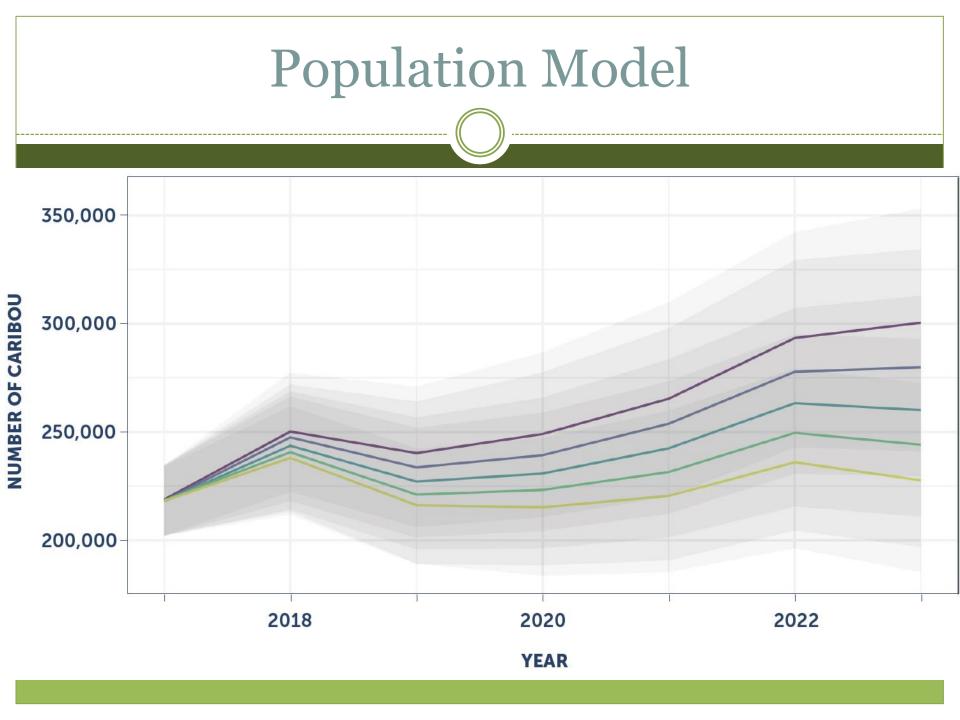
YEAR

Calf Birth Rate and Survival Methods Results

- 81% of females pregnant
- 5 year average of 83%
- 3-year-old cows = 55%
- Calf survival to 3 weeks
 - 77% of those calves survived
 - Long term average is 89%
 - After 1 month: 59 calves per 100 cows







Population Roll Up

- Herd at the highest recorded population size
- High adult survival
- Calf survival largely unknown
- Calf-cow ratio average
 - Pregnancy rate lower than average
 - Calf survival lower than average



Alaska Department of Fish and Game

Population Body

Condition Habitat Harvest



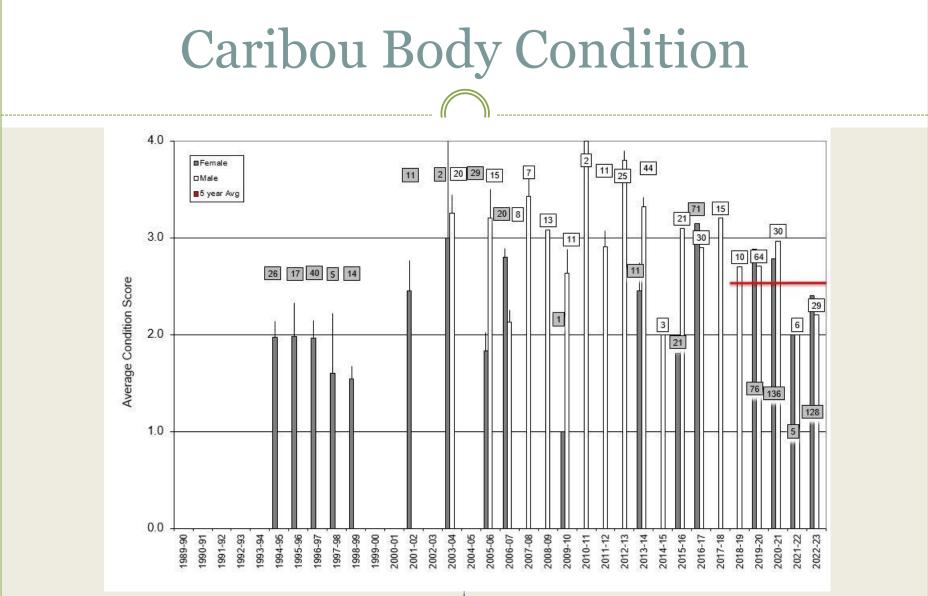
Caribou Body Condition

Methods

Results

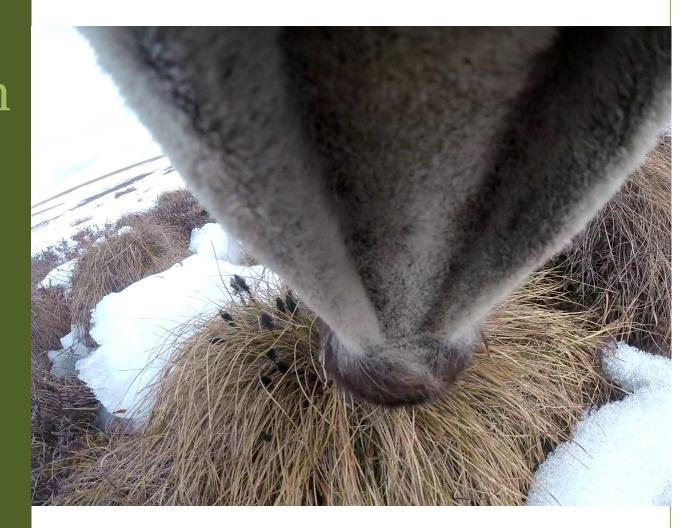
- How healthy individual caribou are by:
 - Measuring back fat
 - Hunter's ratings
 - o 157 samples

- Hunters rated caribou fair
- Back fat measures below average for last 5 years
- Timing of harvest factor



Average condition of harvested caribou 1=poor, 2=fair 3=good 4=very good

Population Body Condition Habitat Harvest

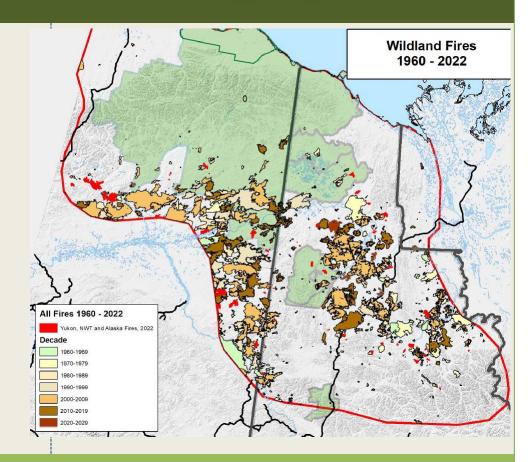


Wildland Fires

Methods

Results

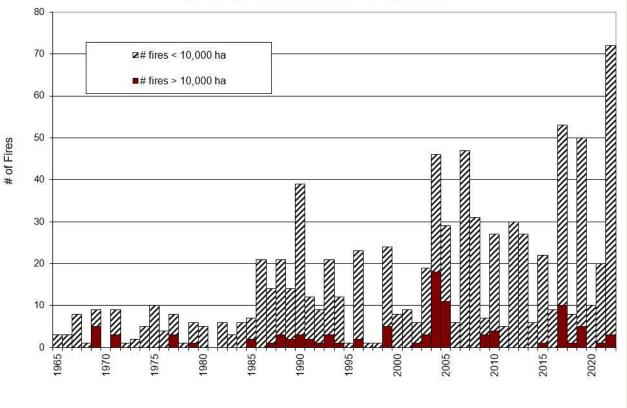
- Amount of PCH range burned as an index of range condition
- 1960–2022
- Fires in red are new as of 2022
- 2023 data not yet available



Many small fires

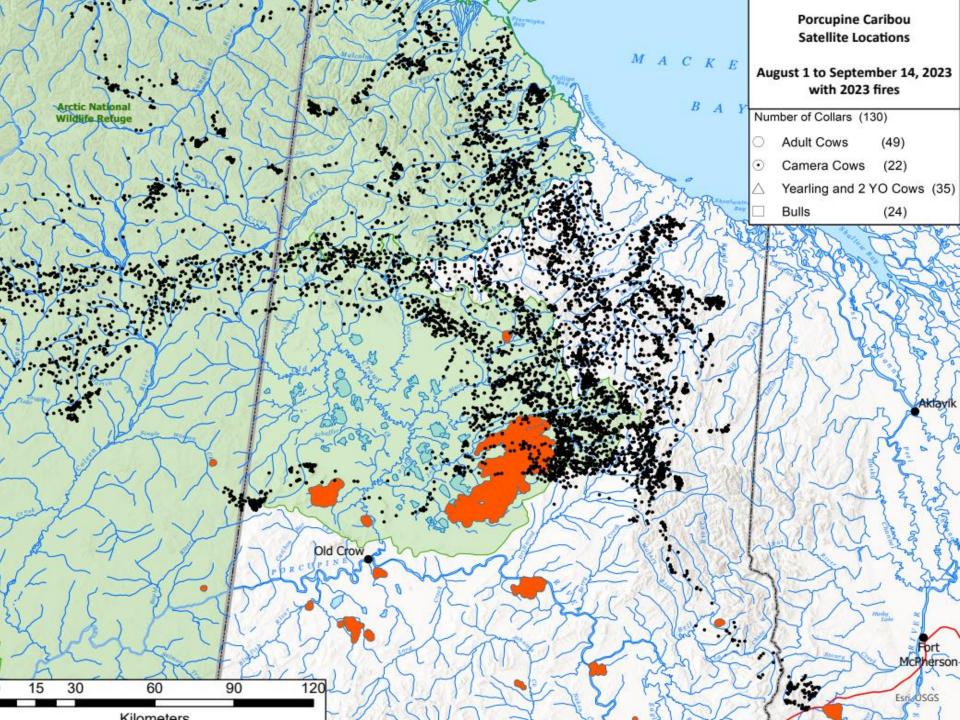
Limited in key habitats

2023 some large fires but few in key habitats



Total number of fires and number of large fires (greater then 10,000 hectares) in PCH range, by year

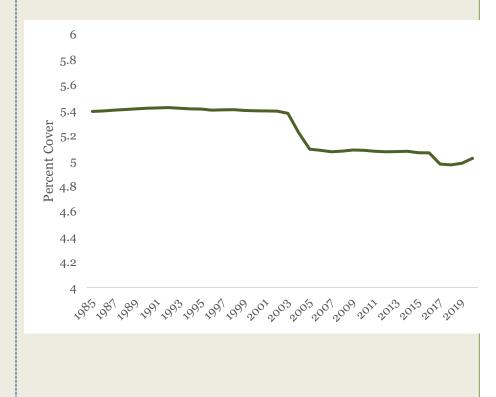
Large fires in PCH Range



Lichen

Methods

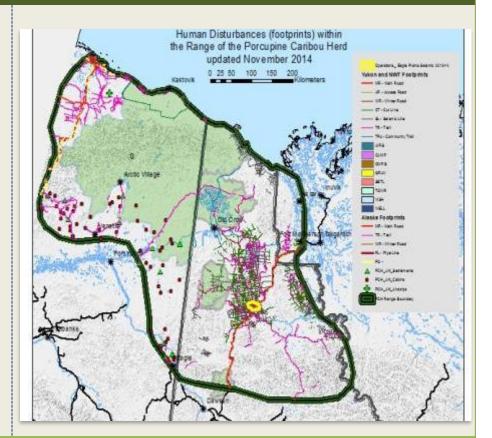
- How much ground is covered in lichen on range
- 1985 to 2020
- Satellite images used

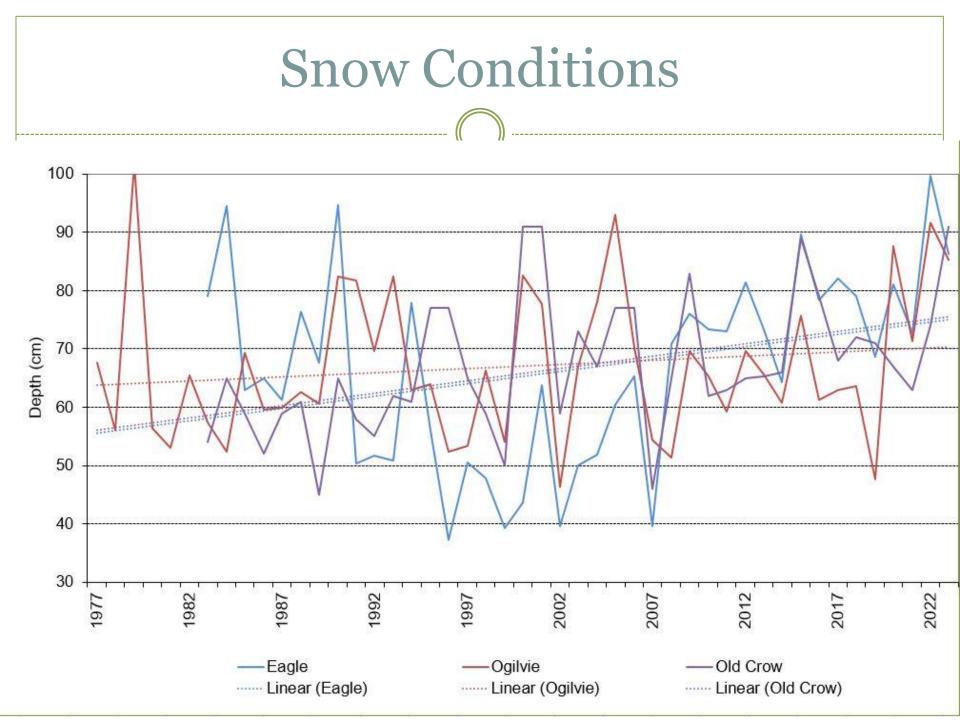


Human Disturbance and Footprint

Methods

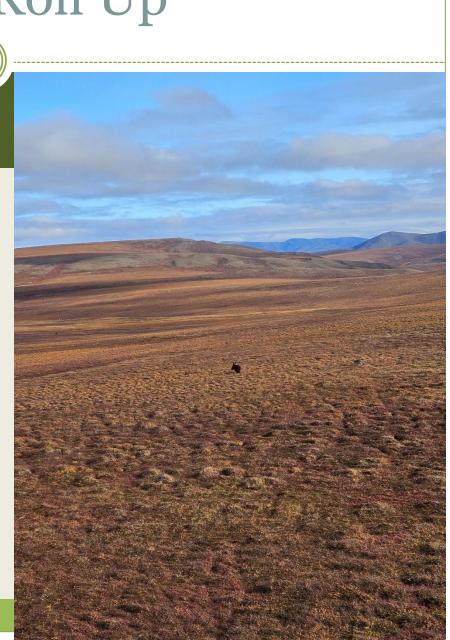
- Measured total linear footprint for each disturbance type
- No appreciable change in footprint during 2022/23
- Oil and gas lease sales and Eagle Plains oil & gas



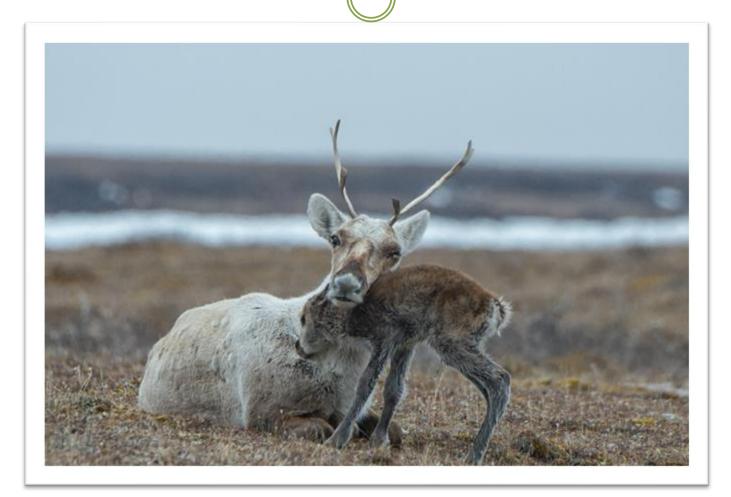


Habitat Roll Up

- Some habitat loss with fires over past two years
- Lichen hasn't changed significantly
- Snow conditions greater than average in the Yukon







Peter Mather