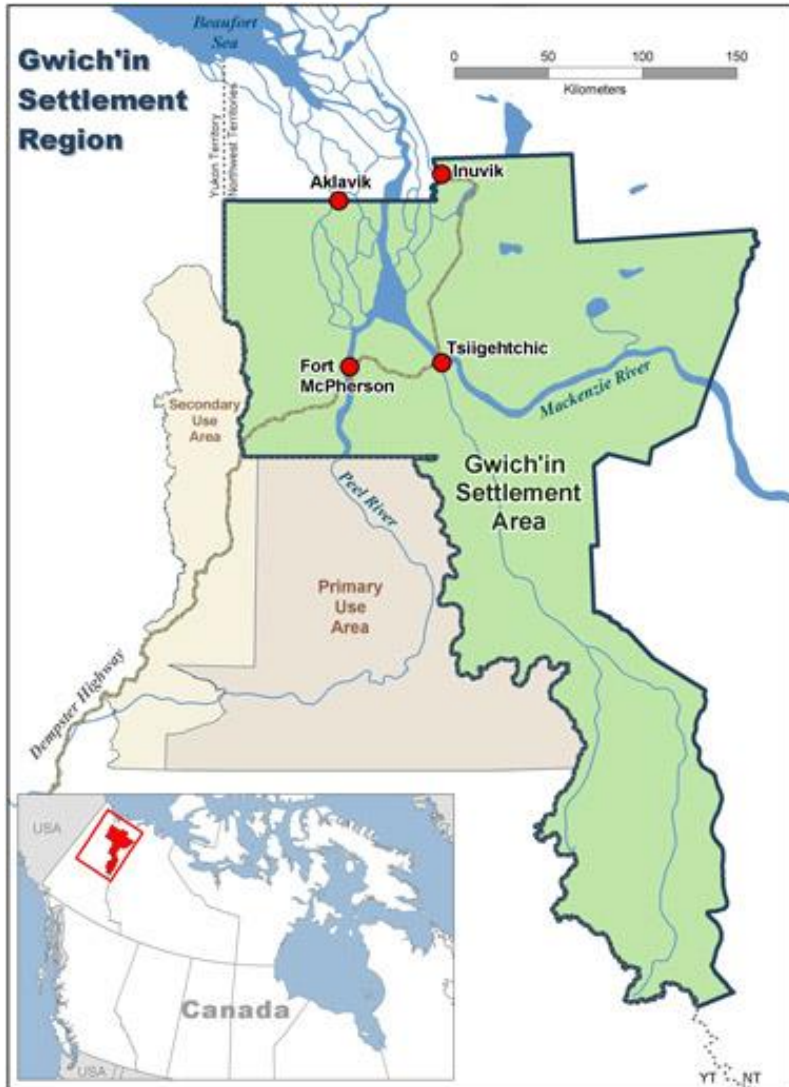


Gwich'in Harvest Survey

*PCMB Annual Harvest Meeting
February 11th, 2025*

Jackson Sung Hoon Joo
Environmental Coordinator, GRRB





Gwich'in Harvest Survey

- Started in 2008
- Vadzaih (caribou)
- Dinjik (moose)
- Aak'ii (muskox)
- Divii (Dall sheep)
- Twice a year
 - November to May (June)
 - June to October (November)



Porcupine Caribou
Management Board

**Yukon**



Government of
Northwest
Territories

Gouvernement des
Territoires du
Nord-Ouest

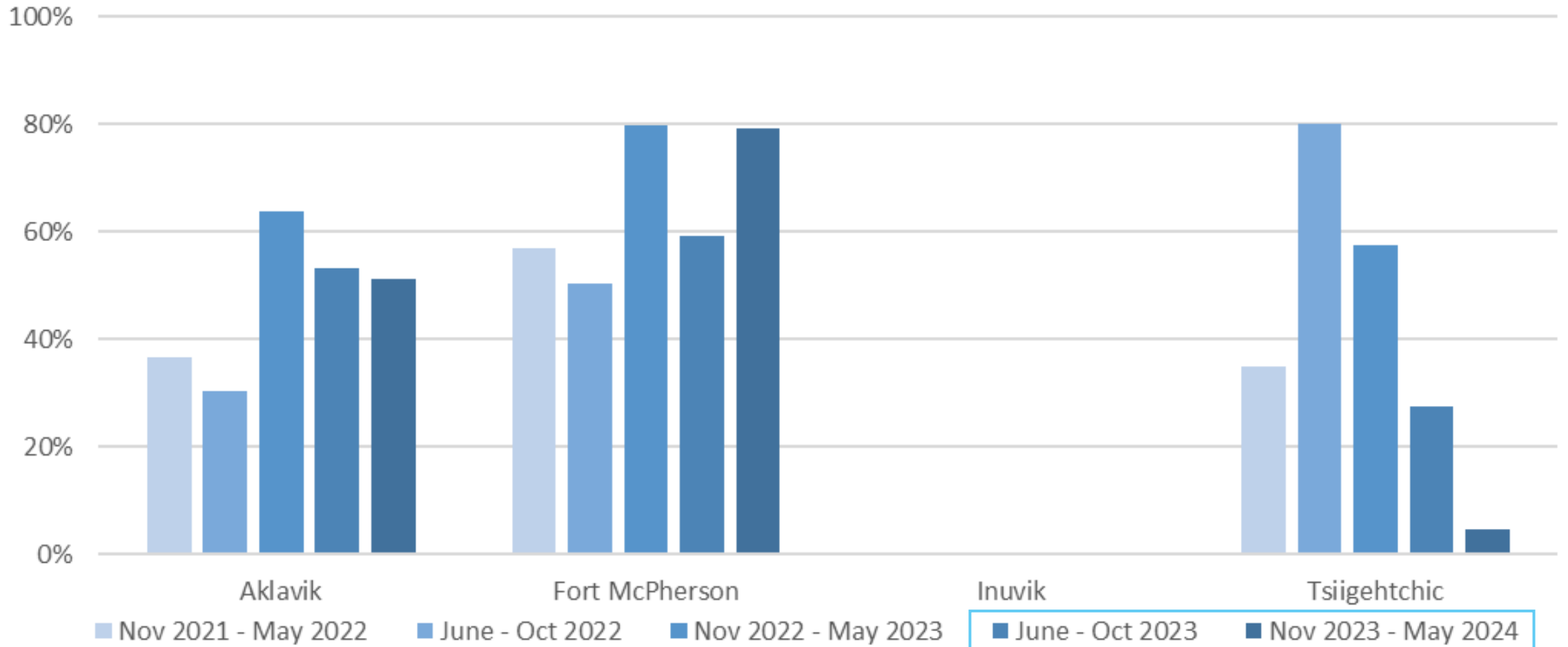


Importance

- Gwich'in harvest level
- Gwich'in subsistence needs
- Inform co-management partners
 - Porcupine Caribou Management Board (PCMB)
 - Department of Environment – Government of Yukon
 - Environment and Climate Change (ECC) – GNWT

Participation Rates

Participation Rates by Community





Reported & Estimated Harvest

June 2023 - May 2024

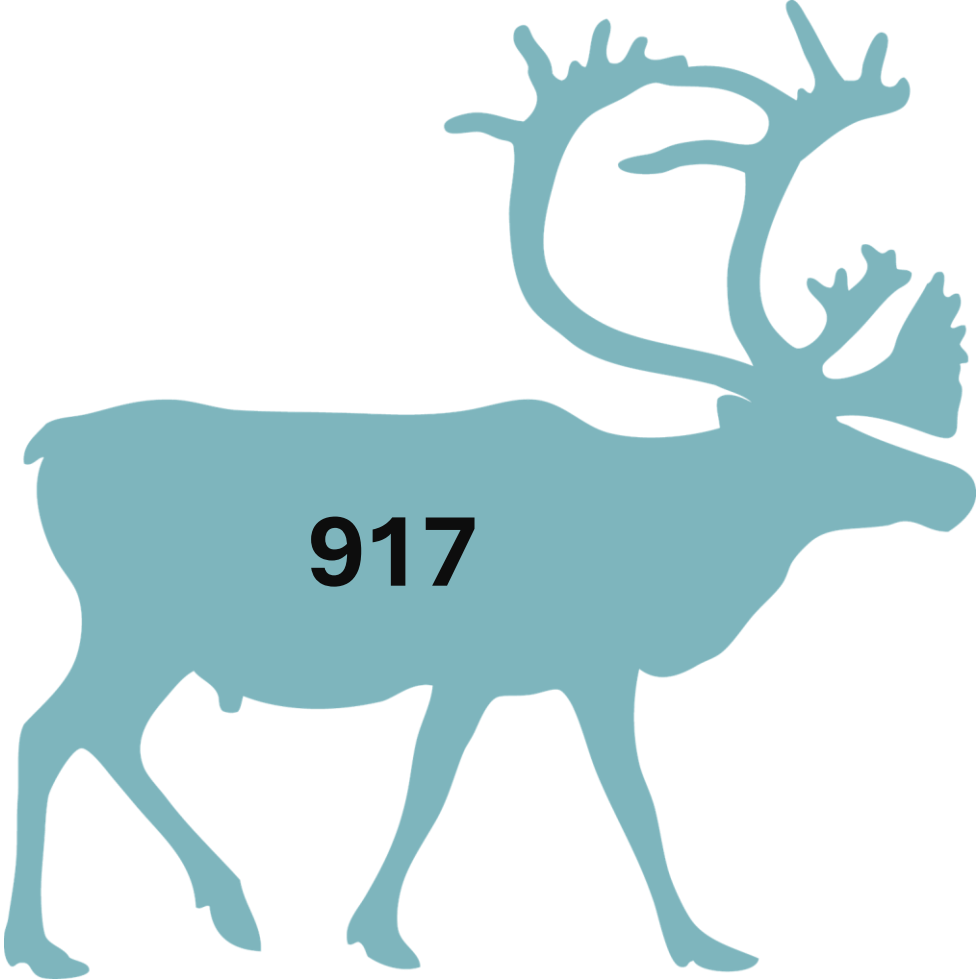
	Male	Female	Total
Reported	64	33	97

From 63% survey participation

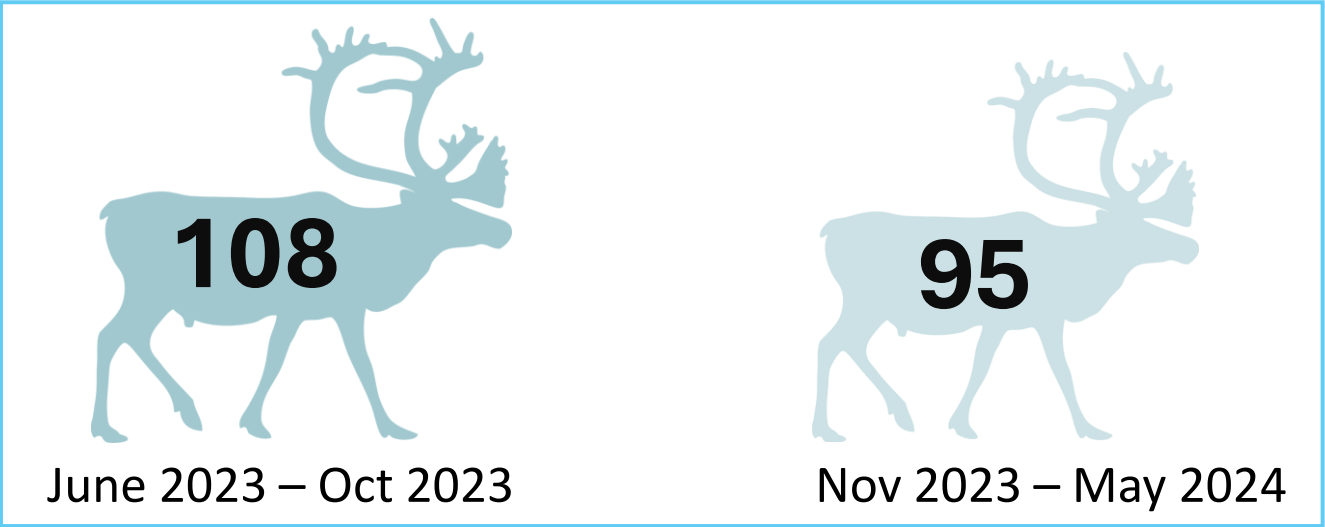
	Male	Female	Total
Estimated	142	61	203

M/F Ratio: 2.33

Estimated Harvest: Last Three Surveys



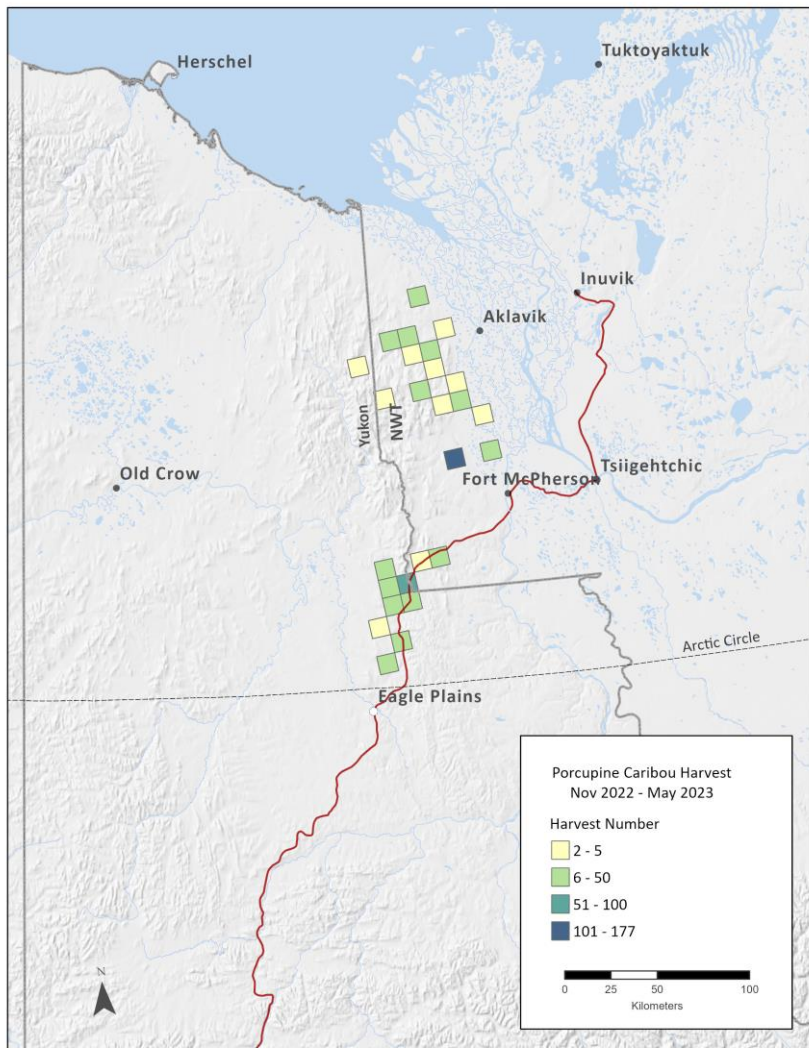
Nov 2022 – May 2023



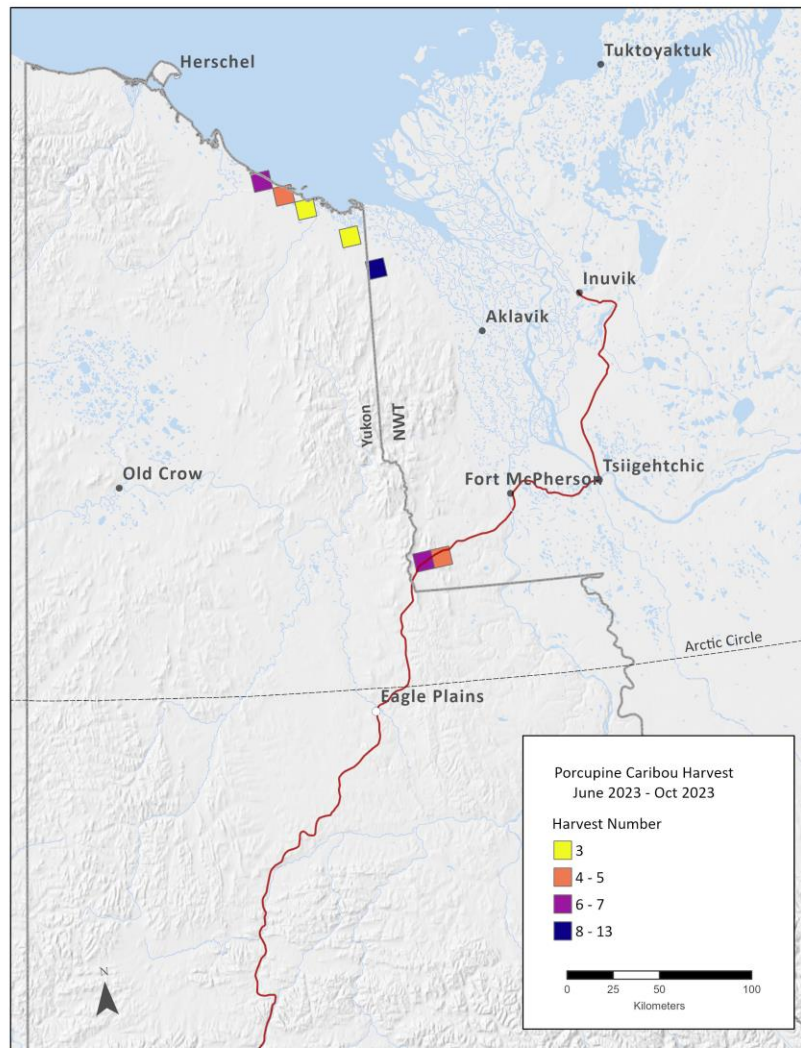
June 2023 – Oct 2023

Nov 2023 – May 2024

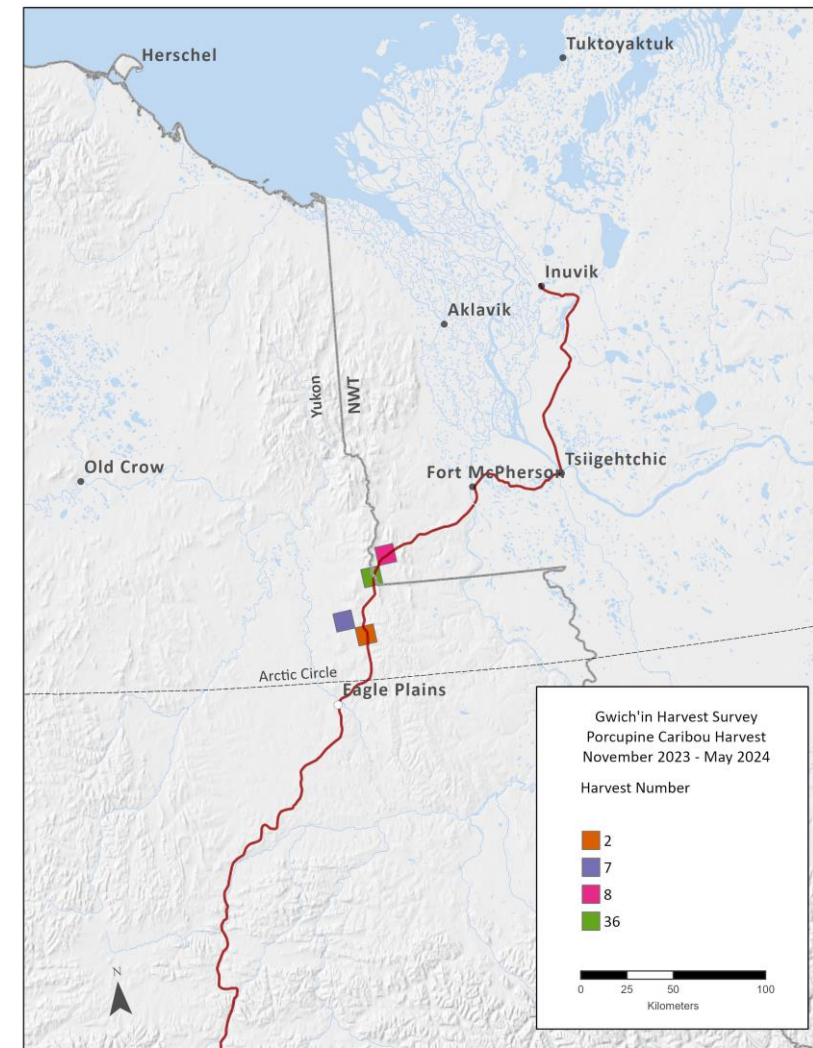
Porcupine Caribou Harvest Locations



Nov 2022 – May 2023



June 2023 – Oct 2023

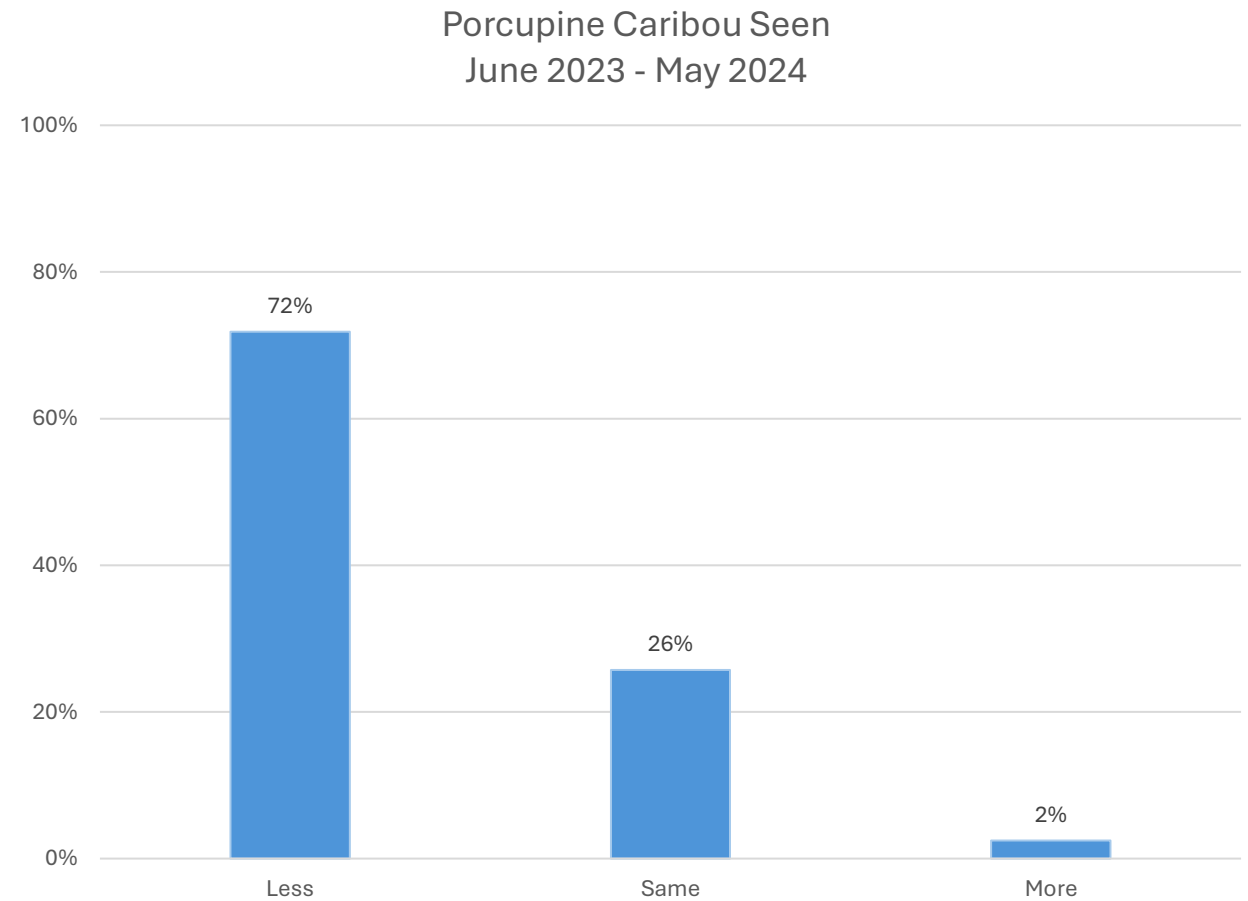


Nov 2023 – May 2024

Population Observation



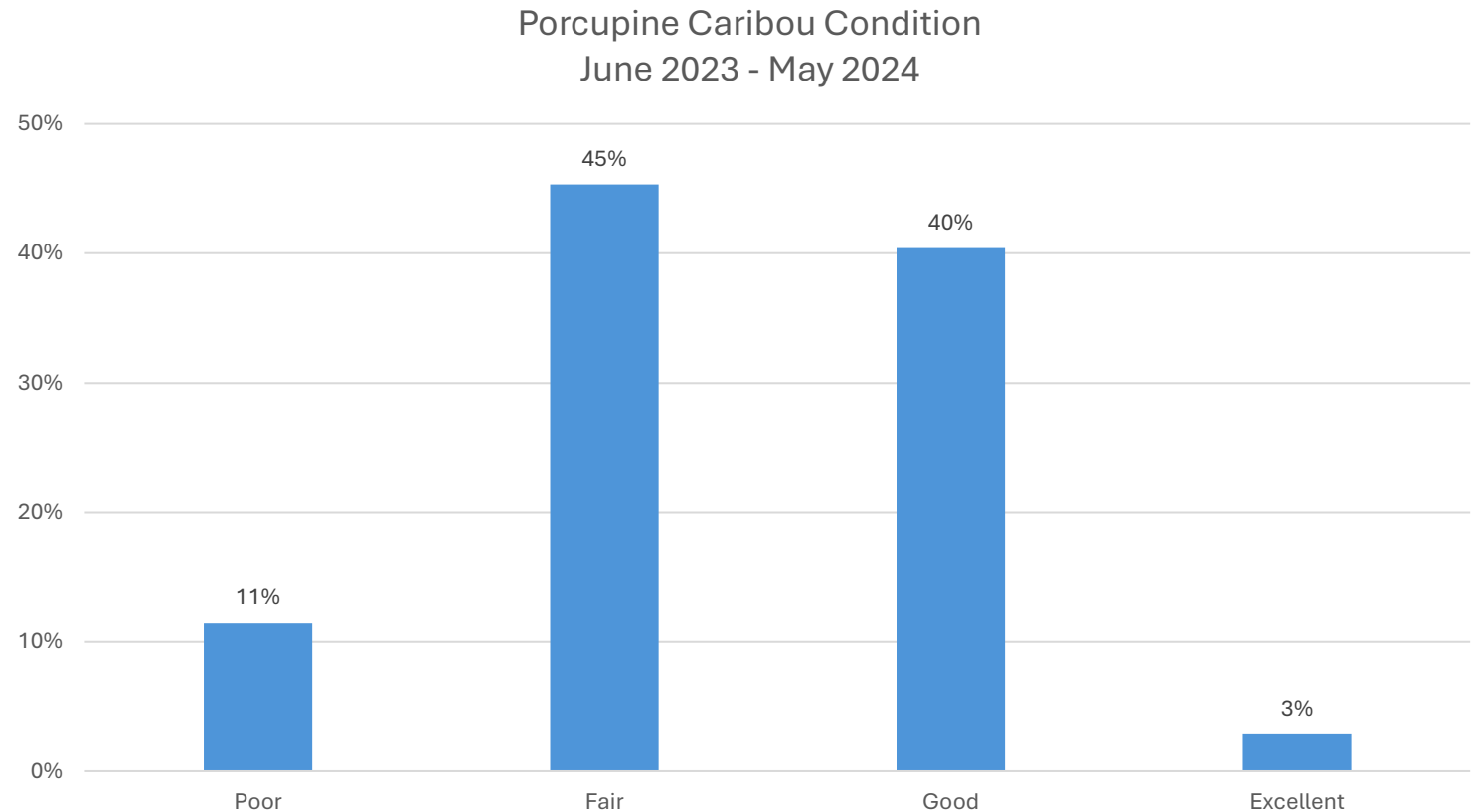
- 72% of 245 survey respondents reported seeing less Porcupine Caribou return.





Body Condition Observation

- 85% of 245 survey respondents reported either fair or good body condition.

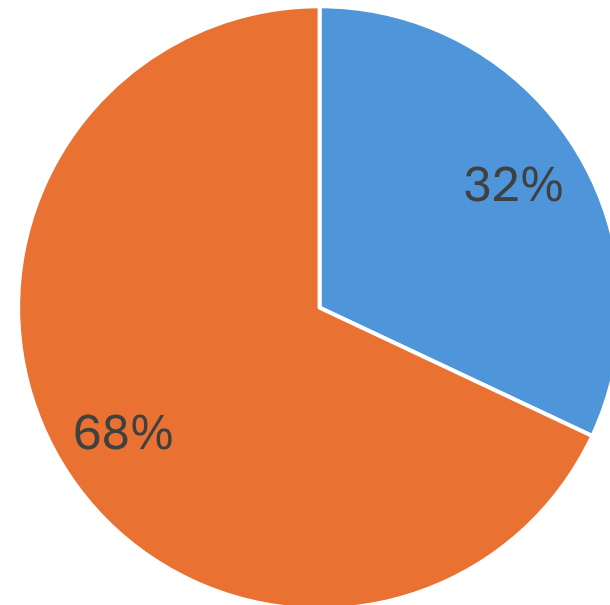




Gwich'in Caribou Needs

- 68% of 245 survey respondents reported their caribou needs were not met.

Met/Unmet caribou needs
June 2023 - May 2024



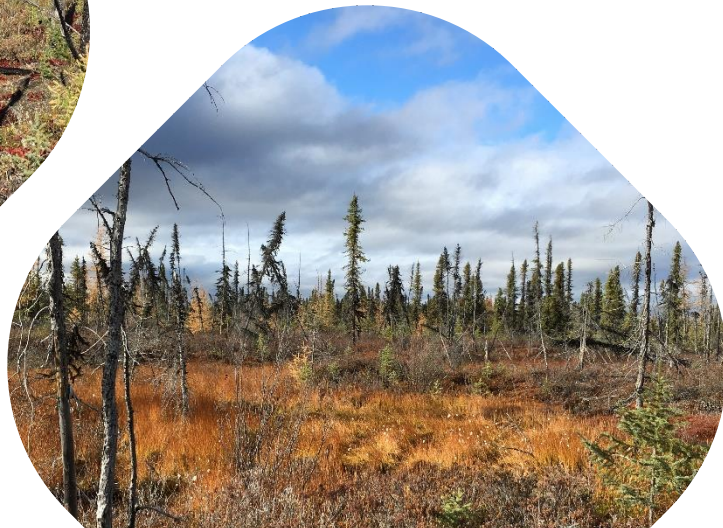
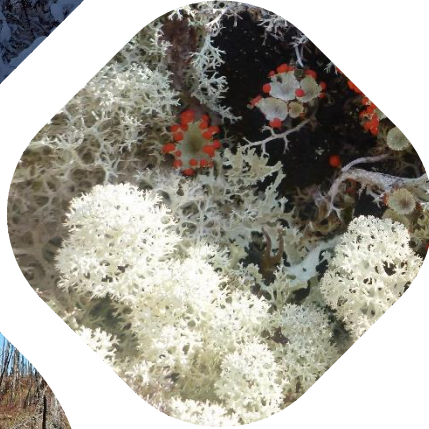
Environmental Observations

On the Land

- **Summer & Fall:** lower water levels; more fires, sandbars, and landslides
- **Winter & Spring:** lower water levels; more erosion, and flooding.

Weather

- **Summer & Fall:** warmer and drier summer; more unpredictable weather; and lower precipitation
- **Winter & Spring:** More snow and colder winter.





Challenges

- Data gap of one community over 2 years
- Inconsistent participation rate
- Incomplete survey submissions or missing data
- Delay in data delivery

Future Directions

- Community engagement
 - Regularly meet with RRCs, harvesters, and young hunters
 - Outreach and Education
- Digital harvest survey (ArcGIS Survey123)
 - Enhance data quality by minimizing human error
 - Minimize burden on RRCs' Coordinators and interviewers
 - Data transfer efficiency



Acknowledgements

We thank everyone who makes the Gwich'in Harvest Surveys possible:

- **Harvesters** who take the time to share their knowledge with us
- **Interviewers** who collect the data
 - Aklavik: **Renita Ross and DeAndra Greenland**
 - Fort McPherson: **Roland Koe, Danielle Peterson, Billy Wilson, Georgie Blake, and Marion Koe**
 - Tsiigehtchic: **Angel Koe and Jenn Andre**
- **Renewable Resources Council Coordinators** organizing the harvest survey in each community
 - Aklavik: **Crystal Koe**
 - Fort McPherson: **Laura Nerysoo**
 - Tsiigehtchic: **Roxanne McLeod**
- **Environment and Climate Change, GNWT** for providing the funding
- **Porcupine Caribou Management Board** for bringing together the stakeholders from all the communities across the herd's range.

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- **Title Page Photo:** Nathan Millar

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Jan Adamczewski from ECC (Caribou); Steve Andersen from GRRB (Snowy Trees); Sarah Lord from GRRB (Lichen, Jason Blake McLeod with Riffle, and Autumn Wetland)

- **PC Harvest Location Maps:**

Édouard Bélanger from Government of Yukon

Hai cho, Mahsi cho, Thank you

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