

ARCTIC WATCH and the KUTZ RESEARCH GROUP

RESEARCH UPDATE





UNIVERSITY OF CALGARY





ASTON BAY Polar Knowledge Canada

Savoir polaire Canada

Ransanz Family Van Sloun Foundation The Arthur French amily Foundation

Update prepared by the Kutz Research Group

What are we doing?

The Kutz Research Group, in partnership with Weber Arctic, have been collecting baseline information on the health of muskoxen on Somerset Island.

We are collecting qiviut and fecal samples from muskoxen herds, and testing them for lungworms, intestinal parasites, stress and trace mineral levels. We are also investigating muskox remains found on the island.

Trace minerals

Essential trace minerals are important nutrients that animals get from their food. They are required in very small amounts, but are important to immunity, growth, reproduction and calf health.

We measured trace mineral status in shed qiviut, and have found very low levels of selenium and copper in muskoxen on Somerset Island. We have also found a high proportion of jaws with abonormalities, something which may be linked to trace mineral problems.

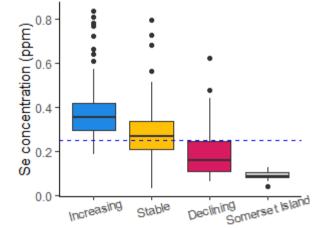
What can we do?

Supplementing the diet of animals is common in livestock when trace minerals are low, and it may be a useful tool to improve the health of wild muskoxen.

We are trialling supplementing a group of muskoxen on Somerset Island (24 animals). We have placed supplement at sites in the areas where they graze, and are monitoring these sites with wildlife cameras.



Level of selenium in giviut



Trace mineral levels in muskox populations relative to increasing, stable, and decreasing population trends (in prep) compared to Somerset Island muskoxen





While we do this, we will continue to collect qiviut and fecal samples to monitor stress, parasites and trace minerals, in this herd and others on Somerset Island.

Further research is also needed to better understand why muskoxen have low levels of trace elements.

If you notice anything strange in muskoxen, report your observations to your local wildlife offficer. Please contact us if you have any questions.

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