DEH CHO REGIONAL WILDLIFE WORKSHOP

CO-HOSTED BY

DEH CHO FIRST NATIONS

&

RESOURCES, WILDLIFE & ECONOMIC DEVELOPMENT

September 23-25, Fort Simpson





List of Participants - Deh Cho First Nations

Judy Sabourin - Liidlii Kue First Nation, Ft. Simpson

Jonas Antoine - Liidlii Kue First Nation, Ft. Simpson

Rita Cli - Liidlii Kue First Nation, Ft. Simpson

Albert Tsetso - Liidlii Kue First Nation, Ft. Simpson

Gerald Antoine - Liidlii Kue First Nation, Ft. Simpson and Moderator

Stanley Sanguez - Tthe'K'ehdeli First Nation, Jean Marie River

Leon Konisenta - N'ah adehe First Nation, Nahanni Butte

Francis Betsaka - N'ah adehe First Nation, Nahanni Butte

Tim Lennie - Pehdzeh Ki First Nation, Wrigley

Charlie Tale - Pehdzeh Ki First Nation, Wrigley

Louie Constant - Deh Gah Gotie First Nation, Ft. Providence

Leon Thomas - Ts'uehda First Nation, West Point

John Cayen - Ts'uehda First Nation, West Point

Napolean Cayen - Ts'uehda First Nation, West Point

Jonas Lafferty - Ft. Simpson Métis Nation

Roy Fabian - K'atlodeeche First Nation, Hay River

Daniel Sonfrère - K'atlodeeche First Nation, Hay River

Frank Fabian - K'atlodeeche First Nation, Hay River

Joe Tambour - K'atlodeeche First Nation, Hay River and Translator

List of Participants - Biologists

Ray Case - Resources, Wildlife & Economic Development, Yellowknife

Nic Larter - Resources, Wildlife & Economic Development, Ft. Simpson

Doug Tate - Heritage Parks Canada, Ft. Simpson

Anne Gunn - Resources, Wildlife & Economic Development, Yellowknife

Ben Olsen - Sahtu Renewable Resources Board, Tulita

Alasdair Veitch - Resources, Wildlife & Economic Development, Norman Wells

Arianna Zimmer - Resources, Wildlife & Economic Development, Norman Wells

Deborah Johnson - Resources, Wildlife & Economic Development, Ft. Smith

Tom Chowns - Resources, Wildlife & Economic Development, Hay River

Chris Paci - Dene Nation, Yellowknife

Craig Machtans - Canadian Wildlife Service, Yellowknife

Brett Elkin - Resources, Wildlife & Economic Development, Yellowknife

Susan Kutz - University of Saskatchewan, Saskatoon

Lorraine Seale - Department of Indian and Northern Affairs, Yellowknife

Unfortunately due to community hunting schedules Acho Dene Koe, Ft. Liard Métis Nation, Ft. Providence Métis Nation, K'a'gee Tu First Nation (Kakisa), and Sambaa K'e First Nation (Trout Lake) were unable to send participants.

DAY 1 - September 23, 2002 - Presentations from Various Agencies

Moderators Nic Larter and Ray Case

| 9:00 AM | Opening Prayer | Joe Tambour |
|----------|--|------------------------|
| | Opening Remarks and Welcome | Paul Kraft |
| 9:15 AM | Western NWT Biophysical Study | Ray Case |
| 9:30 AM | Deh Cho Historical RWED Wildlife Work | Nic Larter |
| 9:45 AM | Heritage Parks Canada Wildlife Work | Doug Tate |
| 10:00 AM | Coffee/Snacks - Posters | |
| 10:30 AM | South Nahanni Caribou | Anne Gunn |
| 10:45 AM | Sahtu Mountain Caribou | Ben Olsen |
| 11:00 AM | Sahtu RWED Wildlife Research Overview | Alasdair Veitch |
| 11:15 AM | Caribou and Seismic Exploration in the Sahtu | Arianna Zimmer |
| 11:30 AM | Posters | |
| 12:00 PM | Catered Lunch Break | |
| 1:15 PM | South Slave RWED Wildlife Programs | Deborah Johnson |
| 1:30 PM | Boreal Caribou | Anne Gunn |
| 1:45 PM | Forest/Habitat Mapping | Tom Chowns |
| 2:00 PM | Posters | |
| 2:30 PM | Dene Land Use Programs | Chris Paci |
| 2:45 PM | Bird Studies in the Liard | Craig Machtans |
| 3:00 PM | Animal Health and Condition | Brett Elkin |
| 3:15 PM | Coffee/Snacks - Posters | |
| 3:45 PM | Parasites in Wildlife | Susan Kutz |
| 4:00 PM | Contaminants in Wildlife | Brett Elkin |
| 4:15 PM | Denendeh Contaminants Study | Chris Paci/Brett Elkin |
| 4:30 PM | Closing Thoughts & Remarks | Ray Case |
| 5:00 PM | Closing Prayer | Joe Tambour |

DAY 2 - September 24, 2002

Community Views on Past, Present and Future Wildlife Research

Moderator Gerald R. Antoine

Time slots are based upon number of attendees but are not fixed

| 9:00 AM | Opening Prayer | Rita Cli |
|----------|--|--------------------------------|
| | Opening Comments | Gerald Antoine |
| 9:15 AM | Where Do We Go with Research in the Deh Cho? | Nic Larter |
| 9:30 AM | Jean Marie River First Nation | |
| 10:15 AM | Fort Providence Dene Band | |
| 11:00 AM | Coffee/Snacks | |
| 11:15 AM | Hay River Reserve | |
| 12:00 PM | Lunch | |
| 1:15 PM | Liidlii Kue First Nation | |
| 2:00 PM | Fort Simpson Métis | |
| 2:30 PM | West Point First Nation | |
| 3:15 PM | Coffee/Snacks | |
| 3:30 PM | Nahanni Butte Dene Band | |
| 4:15 PM | Pehdzeh Ki First Nation | |
| 5:00 PM | Closing Comments/Prayer | Gerald Antoine/Daniel Sonfrère |

DAY 3 - September 25, 2002

Round Table Discussion for all participants

Moderators - Gerald R. Antoine and Ray Case

| 9:00 AM | Opening Prayer | Tim Lennie |
|----------|----------------------------------|----------------|
| | Session 1 - Changes | Moderators |
| 9:45 AM | Session 2 - Working as One | Moderators |
| 10:45 AM | Coffee | |
| 11:00 AM | Session 3 - Balanced Development | Moderators |
| 11:45 AM | Closing Comments | Moderators |
| 12:00 PM | Closing Prayer/Workshop Adjourns | Gerald Antoine |

Resources, Wildlife & Economic Development thanks all community participants for attending this workshop and all Deh Cho First Nations staff who assisted with making this workshop a success. We realize that September is a busy time of year and that unavoidable conflicts with community hunting limited community participation to some extent. Special thanks to Theresa Cazon-Whelly. We would like to thank the students, parents, and staff of the Thomas Simpson School for catering the lunches and snacks.

PURPOSE OF WORKSHOP

A forum of this sort has been a long time coming to this region. While historically wildlife officers have worked closely with the communities in the Deh Cho to address community concerns, they did not have the time or training to conduct wildlife research programs. Now we have a wildlife biologist and technician residing in the Deh Cho who can focus on Deh Cho issues. We also have new funding opportunities with the Western NWT Biophysical Study. This has created a time of opportunity in the Deh Cho:

- To expand upon studies currently underway
- To identify studies community members and biologists can work together on
- To ensure that wildlife and wildlife habitat management decisions are made based upon good information
- To bring together science and traditional knowledge
- To work together for the benefit of wildlife in the Deh Cho

The objectives of this workshop are to:

- Obtain a clearer idea of the issues and concerns the communities have about wildlife
- Ensure that community representatives have information on wildlife studies that have been done in the Deh Cho and are currently being done elsewhere or could be done
- Promote ongoing discussion on wildlife issues

DAY 1: OVERVIEW OF CURRENT RESEARCH ACTIVITY IN AND AROUND THE DEH CHO

PowerPoint presentations were made by biologists from Resources Wildlife and Economic Development, the Canadian Wildlife Service, Parks Canada and the University of Saskatchewan on a variety of wildlife research topics and issues.

See Appendix A for a list of titles and copies of the powerpoint presentations.

DAY 2: OVERVIEW OF DEH CHO COMMUNITY CONCERNS AND ISSUES REGARDING WILDLIFE RESEARCH ACTIVITY AND NEEDS

Tthe'K'ehdeli First Nation, Jean Marie River

The health of the environment is a major issue. We need to ensure that we don=t make the same mistakes as were made down south where industry has had major impacts on the environment. Need for protection of the environment because that is what sustains the animals and ultimately the Dene. Mother earth is being taxed. Contaminants in the water and traditional food are of particular concern. The watershed is the lifeblood of the region.

Band members want the Axe Point area cleaned up and tested. Residents are concerned about the

water quality in the Deh Cho. Want the results of the tests available to the public. General health of the animals should be looked at and monitored.

There are changes happening in the environment; violent storms, less ice, butterflies and birds. These changes in climate cannot be stopped but we need to understand the changes. Monitoring and baseline information gathering are needed and we need to know what is in the food not that the food is unhealthy.

We need to work together, the biologists and the communities, and we need to find the balance between the environment and development.

Deh Gah Gotie First Nation, Fort Providence

There needs to be more studies looking at health, condition and contaminants in all traditional foods, but also up the food chain. Need to have more incentive programs for trappers to provide samples for scientific research. Harvest studies were also a good idea with again incentive programs for the trappers. The health of the environment and the lack of funding for cleaning up known polluted areas that affect the watershed is a big concern of Fort Providence. More money is needed to help get the youth out onto the land. Summer camps currently done by school but would be good to do in conjunction with RWED. More studies are needed in and around the community and specifically the effect of the highway on forests and drainage. Concern about where the caribou went since the bison reintroduction. Need to understand what is happening between caribou, moose, bison and wolves. There is also concern about overkill and harvest amongst their own people. We must get rid of the attitude of shooting an animal just for the sake of shooting it.

Water drainage along the highway north of Providence is not allowing for the natural flow of water, can that be changed? There used to be caribou and more moose near Providence, are the bison competing for their habitat? The Axe Point clean up should be finished, it wasn=t completed due to lack of additional funding. Otters should be studied for contaminants. Fish and water studies should take place to ensure the water quality is safe for consumption.

K'atlodeeche First Nation, Hay River

A concern was raised that there has been a lost spiritual connection with the land and now no one cares about it. All peoples should support each other in actively protecting the land and showing respect for Mother earth from which Dene flow. The term ownership has no business when talking about Mother earth and is against Dene principles. There needs to be support of youth getting out onto and respecting the land. People will harvest animals and it will directly affect animal populations. Concerned about moose in the Buffalo Lake area and working with RWED to conduct harvest studies. More studies are needed like the Deh Cho Boreal Caribou Project where scientific knowledge and traditional knowledge work hand in hand. There is a concern about pollution of the environment and changes that need to be monitored so that the youth can be prepared to face these changes. Want to see the youth learning from the scientists too. Dene people must be educated about respecting the land too. Concern of harvest in their traditional area being taken by others and

where does it go. Strongly support follow-up and action resulting from this workshop.

Chief was impressed with the fact that scientific and traditional knowledge can work together. The Buffalo Lake area is of great concern to the reserve. Monitoring of harvested moose in the Buffalo Lake region should take place. The disappearance of the muskrat from Buffalo Lake is also a concern. The lake is located in Wood Buffalo National Park, which also poses a few conflicts between the park and harvesters. Caribou studies should take place in the region. Oil and gas development is happening in the Cameron Hills. Commercial fishing on Great Slave Lake should be closely monitored. The mesh size of nets are smaller, is that due to smaller mean size of fish in the lake?

Liidlii Kue First Nation, Fort Simpson

Consultation and communication were a key theme throughout, especially communicating the highlights of this workshop to all of the leadership including those unable to attend. Water and the environment are the lifeline of Deh Cho Dene and Métis. Major concern is that mining activities will degrade water quality. Water quality needs to be monitored. Development will occur but only when industry and first nations are on the same page. Traditional knowledge must be used with research and by industry but there is an ownership of this knowledge and a cost to accessing it. The Deh Cho process and interim measures in regards to land management a major and recurring theme. Overkill, harvesting the highway corridor and wastage of animals are big concerns. A protected corridor along the Mackenzie highway would enable a more secure hold on hunters from outside the region. Monitoring of hunter harvest should be community based; wastage from harvests should be prosecuted.

Band members are concerned about the Deh Cho water shed and the monitoring of it. Long-term environmental monitoring is important; not only at the local level but also at regional and global levels. The Deh Cho process and the interim-measures agreement are of high priority. Scientific and traditional knowledge could work as one; although researchers must recognize that traditional knowledge is information that must also be paid for. The work that is done now is done to ensure a future for the youth. The youth should be more involved in the process and exposed to a summary of the biological presentations. School programs may be a way of exposing the youth that are interested in biology. Youth science camps and exposure to biologists is a good idea but it might be hard to get youth involved. The reality is that the youth must want to participate and learn; they cannot be forced. Community follow up should take place on an individual basis. Follow up workshops should take place in the near future. All of the community leaders and communities in the Deh Cho should have a copy of the workshop, whether they attended the workshop or not.

Fort Simpson Métis Nation

A concern was expressed as to why the abundance of some animal populations along the highway had changed recently. Would support the idea of program where trappers would have access to handheld global positioning systems (GPS). Mapping traplines with GPS is a good idea to provide trappers with a map of their area. This would allow people to get a better idea of what is out there.

Ts'uehda First Nation, West Point

Contaminants and keeping the environment clean are major concerns, as well as cleaning up old polluted sites. Monitoring for parasites and communicating the information about parasites from scientists to people is also important. They are supportive of the idea of the having science camps for youth to explain things about wildlife.

Mines that are around the Great Slave Lake should be cleaned up from earlier mining activity. Education of the youth on proper cooking methods when handling wild meat is another issue. Education on parasites that people can get from wildlife should be made available to the public.

N'ah adehe First Nation, Nahanni Butte

They are concerned about the health of the environment and especially the water getting polluted. Water quality was a major concern. The need for sampling, monitoring and cleaning up areas for example the Cadillac Mine on Prairie Creek. The results of testing need to be communicated to all. They make a suggestion that spring sampling of water is best because everything is flushed down to the river then. They would like to see more monitoring of the Nahanni bison population as there has not been a lot since the bison were put there in 1980. They also want to know why moose are scarce since the introduction of the bison. There are concerns about the changes seen recently like new animal sightings in the area and why they are happening.

Band members want tests that are done on the Prairie Creek mine made available to them. The mines should be taken care of properly, to ensure there will be no contaminants introduced into the South Nahanni River water shed. The monitoring of the bison on the Liard River should be consistent. Local people would like to get involved with future monitoring in the area.

Pehdzeh Ki First Nation, Wrigley

People are observing lots of changes on the land and fewer moose. We need to address this and Wrigley needs to be involved. Water and environment require monitoring and there is a real need to know what is happening in the watersheds, not only in Deh Cho but in adjacent areas. There are concerns about mining activities past and present and their affect on water quality. There is a concern about the health and condition of moose around water bodies, also other traditional country foods like caribou. They would like to see research on moose and caribou, looking into changing caribou migration patterns. There is concern about showing proper respect for animals, wasting meat, and of harvest in their traditional areas by others. Where does the harvest go? Monitoring the harvest ranks of greater importance than monitoring animal disease. Support combining scientific and traditional knowledge for research and of educating the young in the science and careers of wildlife research. Strong belief that kids will love the hands on of science camps and the need for educating youth. The need for more workshops like this and the need to communicate the outcome of this workshop strongly supported. Communication is a key to defeating the mistrust that still lingers. Also need to build capacity in the communities.

Band members are concerned about the migration of barren land caribou near Cap Mountain; and its influence on boreal caribou and moose migrations to the Mackenzie River. Monitoring of development in the Blackwater area should be a concern due to the prime moose habitat around the lake. The monitoring of moose and caribou harvest by hunters is a major concern for local people. The monitoring will ensure the populations are healthy and maintained for future generations. A protected corridor along the highway would be a good idea. Waste from harvesting is not acceptable and should be dealt with by RWED. Meeting new people that come into the community would be beneficial for all that are involved, the band office is a good place to visit. Band members would like to see more involvement from the youth in the workshops. Science camps are a good idea; the ecology camp held two years ago was a success with the youth.

DAY 3: ROUNDTABLE DISCUSSIONS

Three themes were identified from the discussions held on Day 2 and round table discussions were held between community delegates and biologists. The following summarizes the discussion and conclusions regarding these themes.

1. CHANGES

- Detecting change There is a need to monitor the state of the environment and manage the air, land and water for future generations. Start monitoring now so that in 20 years we can know about what changes are happening.
- Understanding change There is a need to understand more about climate change and how this will affect the land and the Dene relationship with the land.

2. WORKING AS ONE

- Combining traditional knowledge and science It is not just a matter of working together but rather scientists and communities need to work as one. The Deh Cho boreal caribou study was discussed and used as an example of how information from two sources was brought together and how RWED and DCFN conducted the study as partners.
- Involving youth in science We need to make science attractive to youth. We all need to work with schools and need to provide opportunities such as science camps to give youth hands on learning experiences. A Deh Cho Wildlife Research Station could provide opportunities for establishing long-term studies that youth could participate in and could provide opportunities to train people to conduct monitoring activities in their own communities or areas.
- Developing the proper perspective Elder/scientist retreats used by the Northern Contaminants Program have been effective in providing scientists with a better understanding of the relationship between Dene, Métis and the Land. Ongoing opportunities for communication and discussion like this workshop are needed.

3. BALANCED DEVELOPMENT

- Effects of development on watersheds We need to understand what is happening and what the risks are to the Mackenzie watershed as it all flows through the Deh Cho.
- Effects of seismic activity, seismic lines and roads We need to understand how this activity effects caribou and birds
- Providing information needed for establishing protected areas We need to conduct studies to help identify areas that need to be protected.
- Sustaining the land We need to sustain the land. We need to respect the land and take care of it so that animals can replenish themselves. Need to remove pollution and fix up old messes.

WORKSHOP FOLLOW-UP:

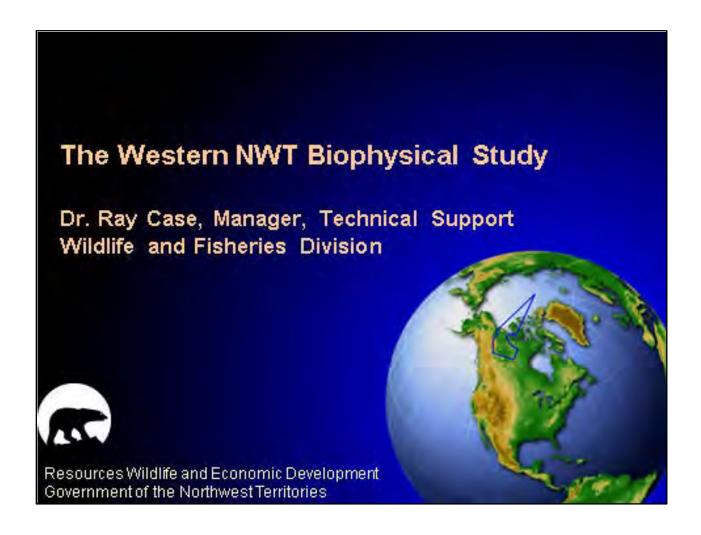
Based upon discussions held at the Workshop a number of follow-up activities are recommended:

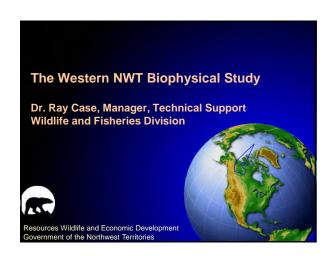
- 1. Ensure that the summary and hard copies of presentations covered at the Workshop are distributed to all Deh Cho First Nations;
- 2. Arrange meetings and discussions with those First Nations that were unable to send representatives to the Workshop (Trout Lake, Kakisa, Ft. Liard). For Kakisa, Regional Biologists from Ft. Smith and Ft. Simpson should be in attendance;
- 3. Circulate letters to schools in the Deh Cho indicating that there is now a Regional Biological Program with RWED and that they are available to make school presentations if requested;
- 4. Explore options and develop a proposal for how a science camp/research station could be established in the Deh Cho;
- 5. Identify ways that moose populations in the Deh Cho could be monitored at regular intervals;
- 6. Identify ways that the Nahanni bison population could be monitored regularly;
- 7. Identify ways that the status of boreal caribou in the Deh Cho could be clarified and the potential impacts of oil and gas exploration and development on boreal caribou could be studied in the Cameron Hills area and possibly in other key areas of boreal caribou range in the Deh Cho;
- 8. Identify ways that community based monitoring of wildlife health could be implemented in the Deh Cho;
- 9. Identify ways that monitoring of the harvest in the Deh Cho could be enhanced;
- 10. Identify appropriate indicators for monitoring and assessing environmental and landscape change (including those resulting from climate change) that could be established in the Deh Cho;
- 11. Identify studies that are needed to support protected areas initiatives in the Deh Cho;
- 12. Maintain contact and dialogue with all Deh Cho First Nations to ensure that all research and monitoring programs are developed and implemented together.

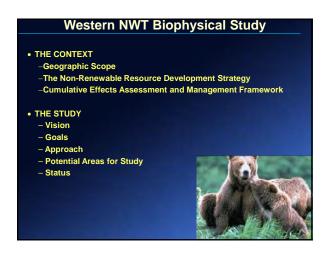
Appendix 1.

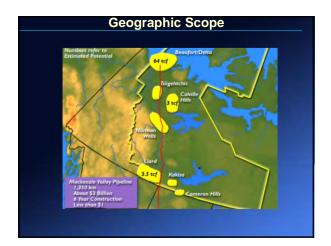
The Western NWT Biophysical Study

Presented by Ray Case, RWED Yellowknife





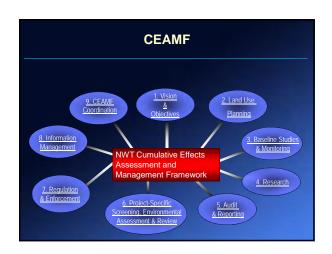






Cumulative Effects Assessment and Management Framework (CEAMF)

Response to increasing development pressures;
Recognition that project-specific EA not an effective forum for cumulative effects assessment in the NWT;
Systematic, coordinated approach to cumulative effects assessment and management;
Builds on existing processes;
Ongoing process - coordination, gap analysis, priority-setting, and focusing resources.



The Proposal

"To foster the sustainable development of resource-based industries in the western NWT, through supporting a coordinated, regionally-responsive, multi-year study to conduct baseline biophysical and applied research involving both science and traditional knowledge to support decision-making related to resource management, planning and environmental assessment."



The Proposal

- Provide adequate funding to respond to regional priorities for research related to air, water, wildlife and vegetation, while maintaining coordination and communication at the territorial level:
- Establish a partnership approach with other stakeholders, including territorial, federal and aboriginal governments, industry and ENGOs;
- Use the partnership to identify research priorities and areas for collaborative research; and,
- Minimize redundancy and maximize efficiency by working within, and supporting, existing processes.

The Management Team

- •Territorial Representative
- •Federal Representative
- •Deh Cho First Nations Designate
- Sahtu Designate
- •Gwich'in Designate
- •Inuvialuit Designate
- •ENGO (Observer)
- Industry (Observer)



The Approach

- To identify and priorize gaps in information necessary to assess the potential environmental impacts of development activities.
 - Regional/Community/Management Board workshops and discussions;
 - Definition of a research framework;
 - Review of existing information;
 - Follow-up regional workshops and discussions:



The Approach (cont.)

- To support ongoing research already identified as being a priority through existing processes.
 - Boreal caribou studies;
 - Ecological land classification;
 - Air quality monitoring;
 - Research framework:



The Approach (cont.)

- To support research identified through community and regional meetings and workshops as being a priority;
- To establish partnerships with Federal agencies, industry, universities, co-management boards and non-government organization to support priority research.









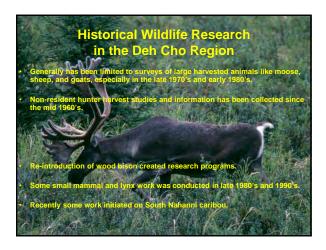
Appendix 2.

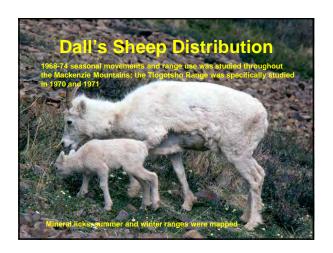
Deh Cho Historical Wildlife Research

Presented by Nic Larter, RWED Fort Simpson





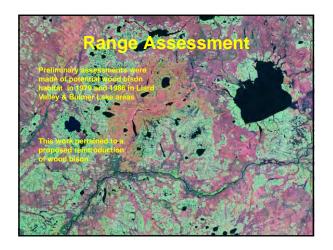


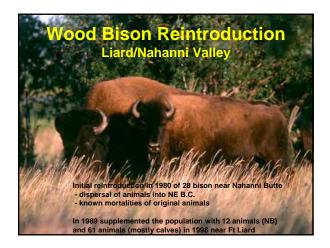




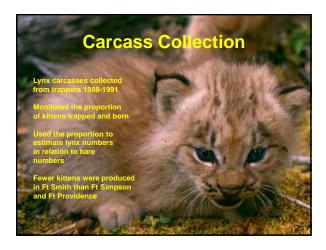




















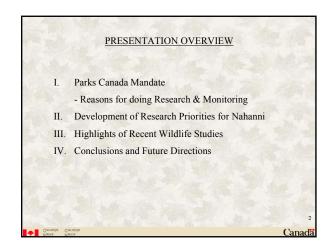
Appendix 3.

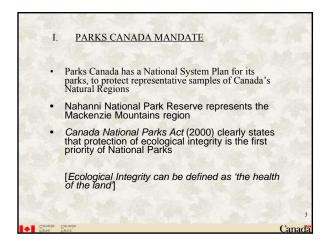
Wildlife Research in Nahanni National Park Reserve

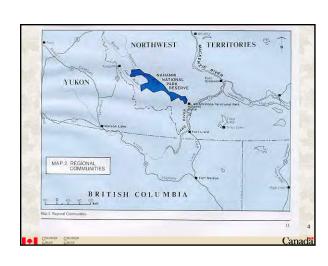
Presented by Doug Tate, Heritage Parks Canada

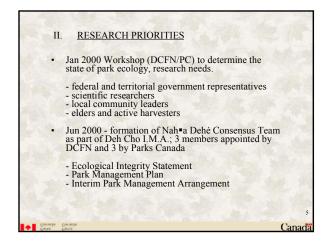
WILDLIFE RESEARCH IN NAHANNI NATIONAL PARK RESERVE Douglas Tate ConservationBiologist Nahanni National Park Reserve Ft. Simpson, NT September 23, 2002 1 Canada Canada

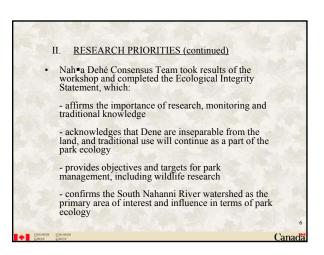


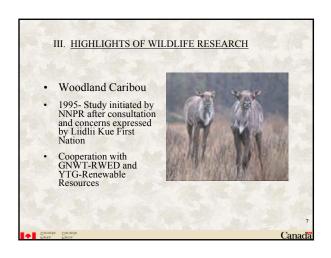


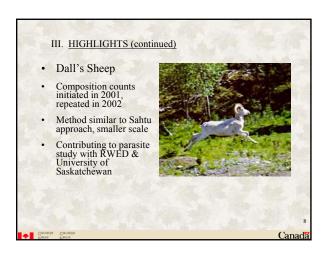


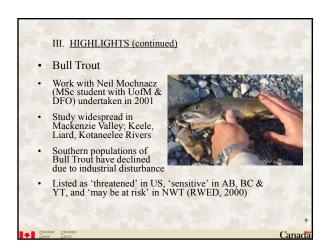


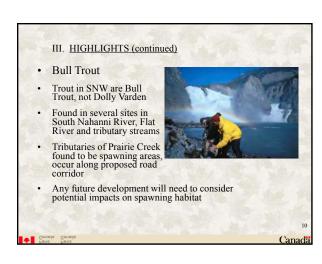


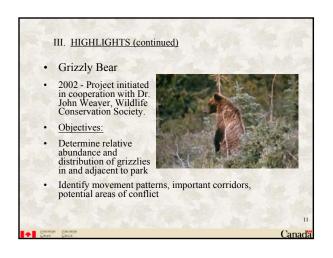


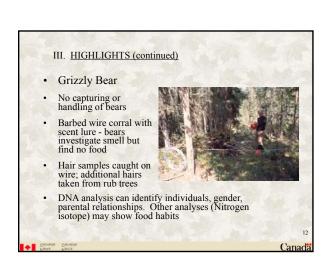




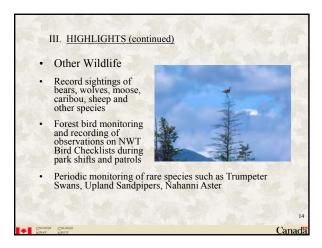


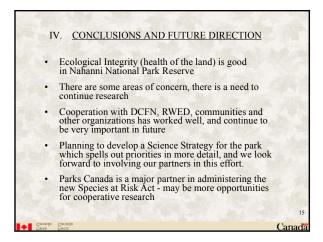












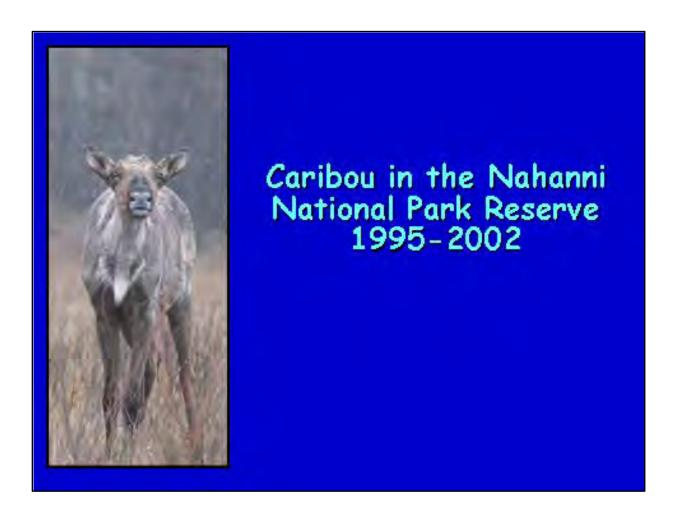


MAHSI CHO / THANK YOU Resources, Wildlife and Economic Development & Deh Cho First Nations Nah•a Dehé Consensus Team RWED (YK, Deh Cho & Sahtu) Yukon Renewable Resources Department of Fisheries and Oceans, Environment Canada (Canadian Wildlife Service) University of Manitoba, Univ Saskatchewan Wildlife Conservation Society

Appendix 4.

Caribou in the Nahanni National Park Reserve 1995-2002

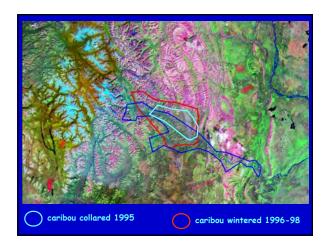
Presented by Anne Gunn, RWED Yellowknife

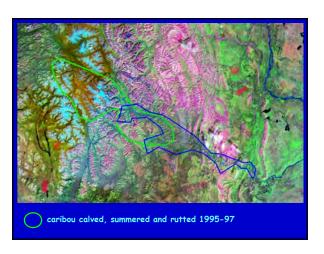




Caribou in the Nahanni National Park Reserve 1995–2002

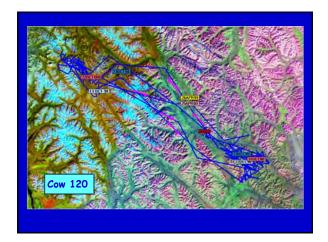








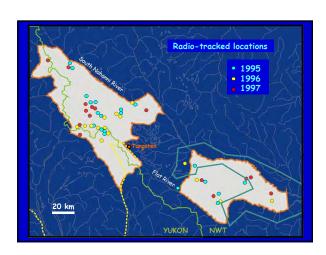


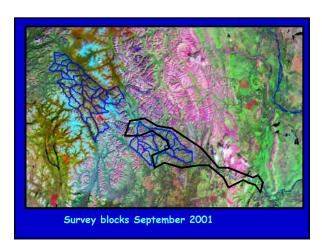


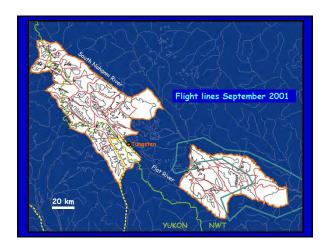


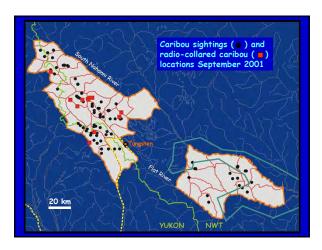






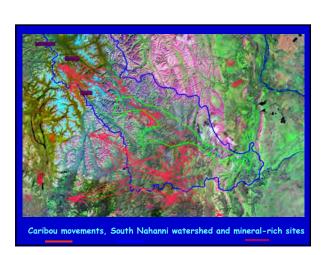












Appendix 5.

Woodland Caribou Research and Co-Management in the SSA

Presented by Ben Olsen, Sahtu Renewable Resources Board



Sahtu Renewable Resources Board Wildlife Management Workshop Fort Simpson, NWT September 23 -25, 2002 Prepared by: Ben Olsen, Regional Wildlife Biologist, SRRB

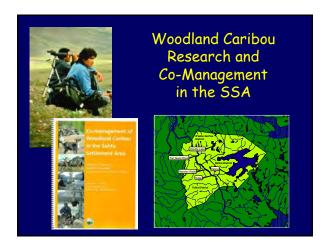






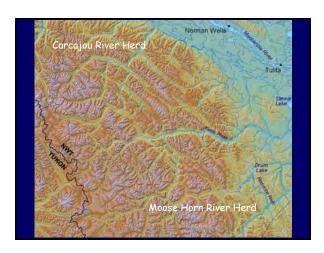




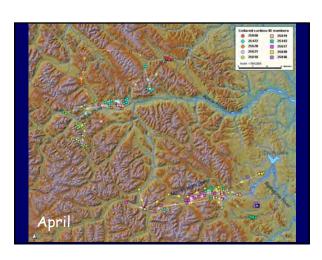


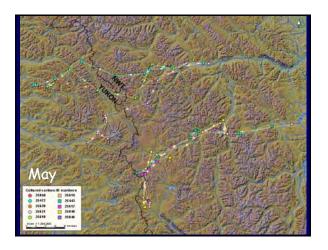


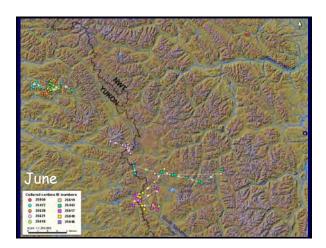


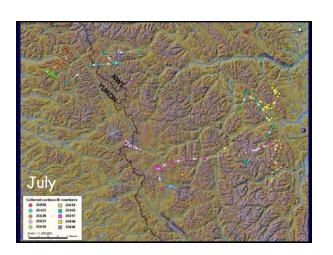


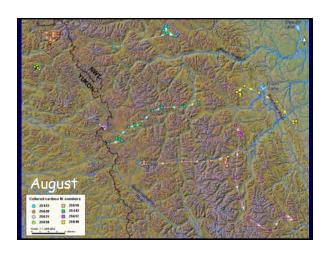


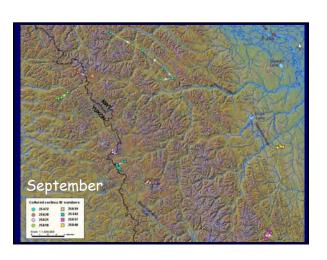




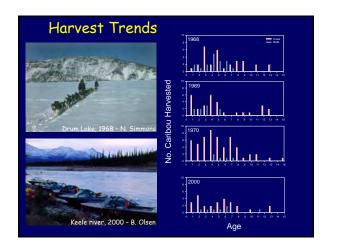








| Herd | Year | Туре | Reference | No. Classified | Bulls:100 cows | Calf:100 cows |
|---------------|------|--------|---------------------------|-------------------|-------------------|------------------|
| Bonnet Plume | | | | | | |
| | 2000 | ground | Shaw & Benn 2002 | 360 | 200 | 45 |
| Redstone | | | | | | |
| | 1999 | ground | Veitch et al. 2000 | 2661 | 42 | 28 |
| | 2000 | aerial | Olsen 2000 | 665 | 51 | 20 |
| South Nahanni | | | | | | |
| | 1995 | aerial | Gullickson & Manseau 2000 | 813 | 37 | |
| | 1996 | aerial | Gulickson & Manseau 2000 | 739 | 47 | 20 |
| | 1997 | aerial | Gulickson & Manseau 2000 | 733 | 32 | 26 |
| | 2000 | aerial | Gunn et al. In Prep. | 549 | 33 | 15 |
| | 2001 | aerial | Gunn et al. 2002 | 781 | 40 | 10 |

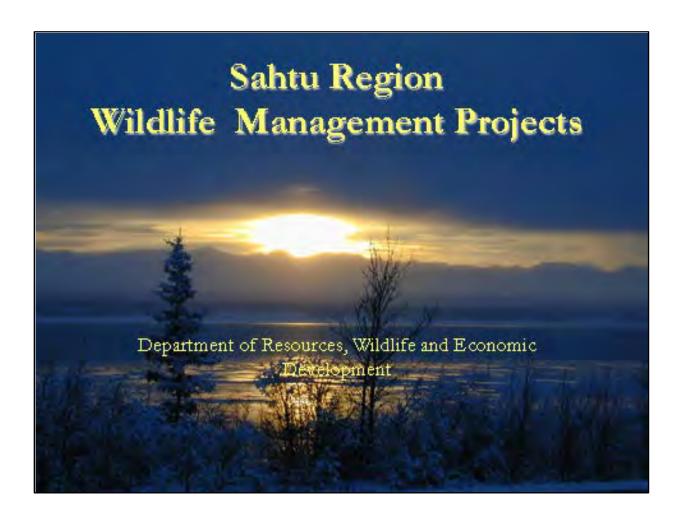


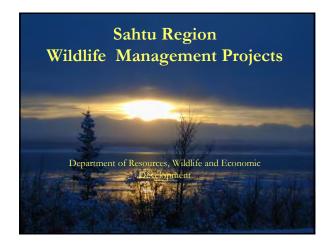


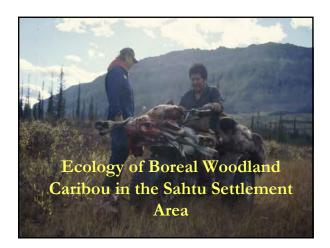
Appendix 6.

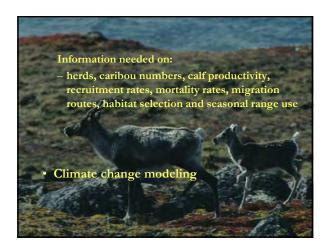
Sahtu Region Wildlife Management Projects

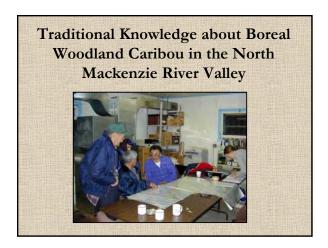
Presented by Alasdair Veitch, RWED Norman Wells





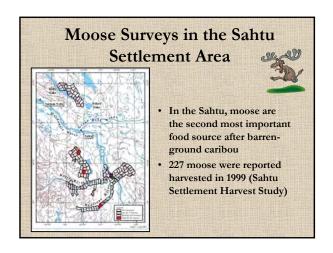


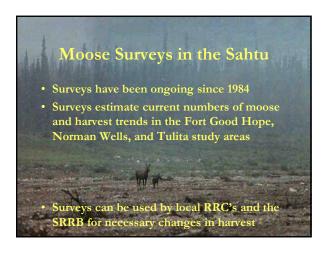




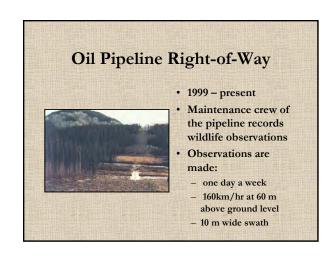






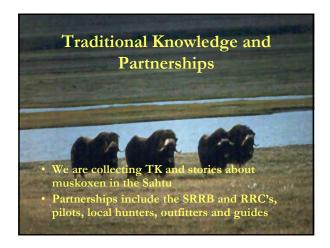


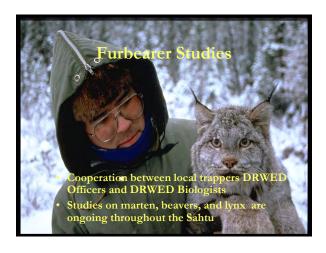


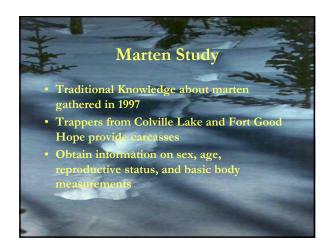


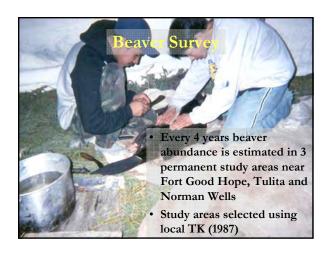


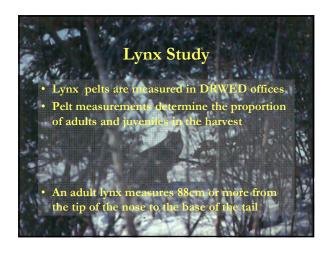




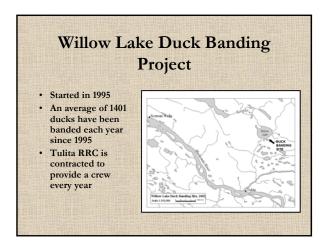




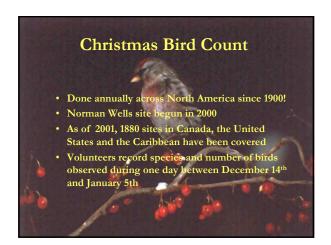


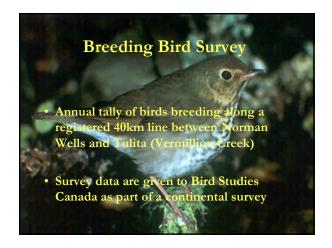










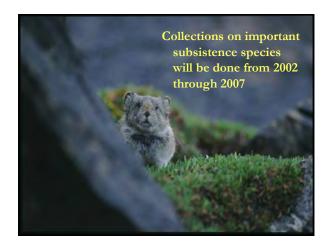


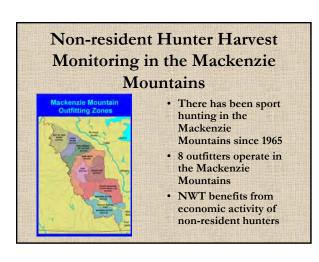


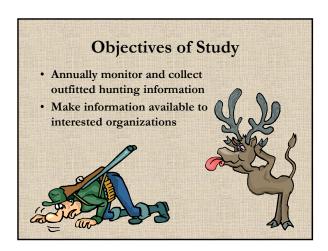








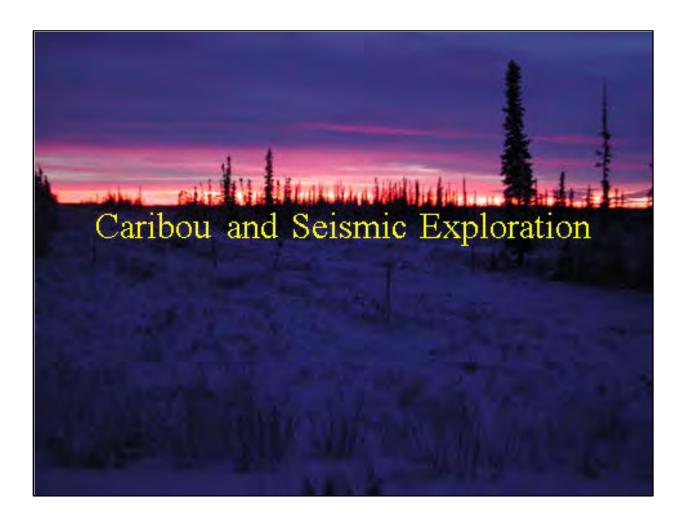


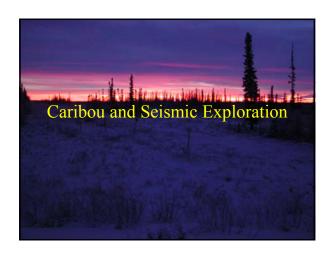


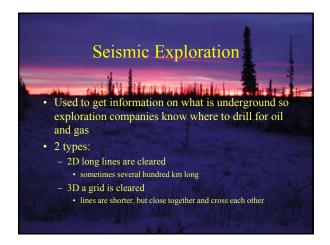
Appendix 7.

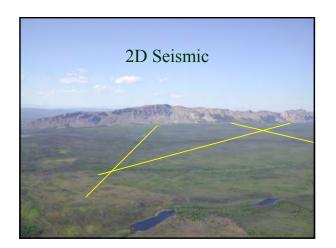
Caribou and Seismic Exploration

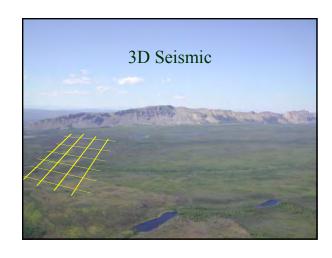
Presented by Arianna Zimmer, RWED Norman Wells

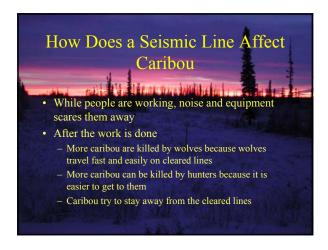


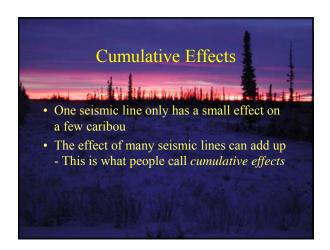


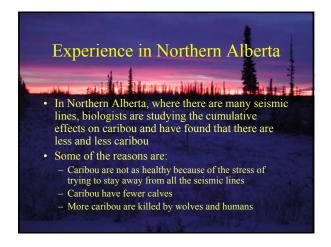


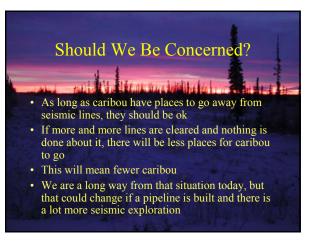


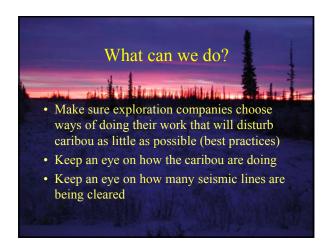




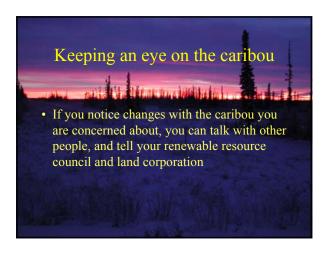






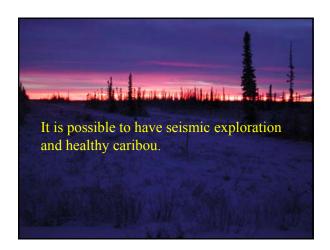


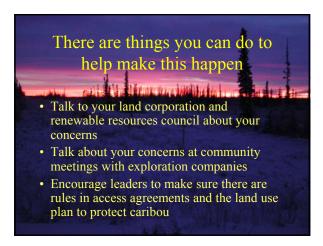




Keeping an eye on the number of seismic lines Right now, some companies don't want to give information on where their seismic lines are located This information is needed to make maps so people will know if there are too many seismic lines in some areas Land corporations could put rules in access agreements so that companies give them the GIS information on where they put their seismic lines







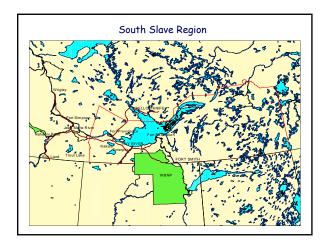
Appendix 8.

South Slave Wildlife Program

Presented by Deborah Johnson, RWED Fort Smith







Small Mammal Study

Where?

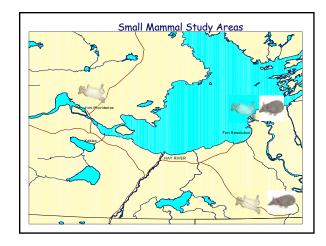
o NWT- wide

What?

- o Look at changes in small mammal abundance
 - Snowshoe hare turd counts
 - Small mammal trapping

Why?

Tool for predicting furbearer harvest potential





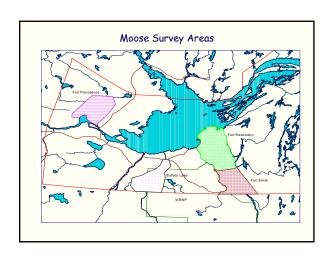
Marten Harvest Study

Collect marten carcasses from trappers

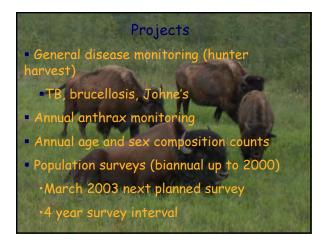
- Age and sex ratiosBody condition
- Winter diet

Trap-line management (see poster for more information)







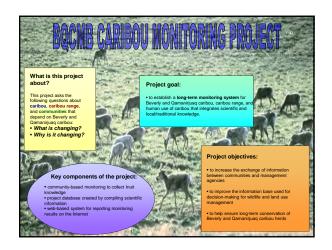




Potential Projects

- Historical account of caribou (where they lived, numbers, habitats, etc.)
 - o Traditional knowledge
- Factors affecting caribou
 - General body condition and disease monitoring (hunter harvest samples)
- Factors affecting habitat
 - o Mapping linear features

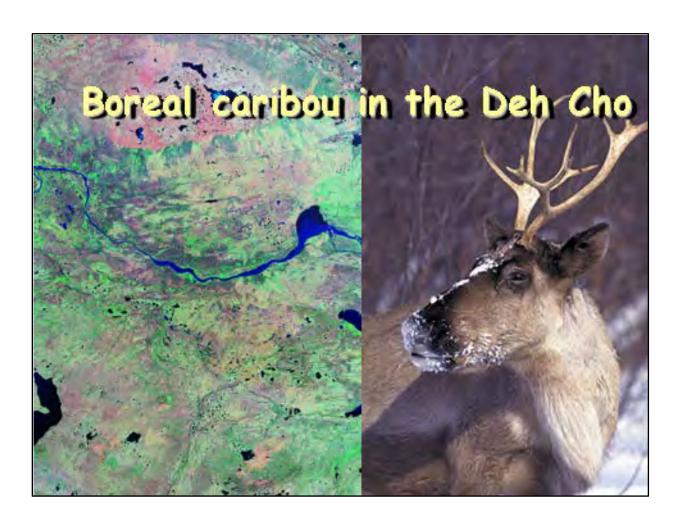




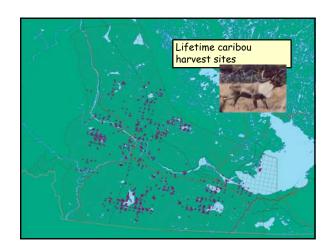
Appendix 9.

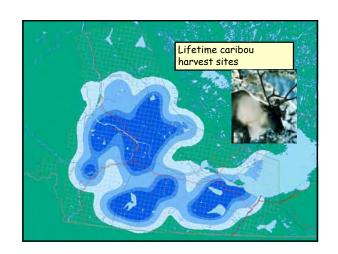
Boreal Caribou in the Deh Cho

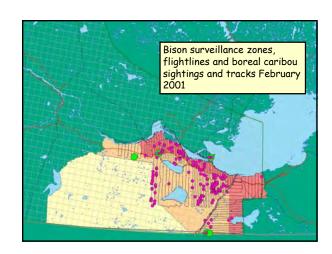
Presented by Anne Gunn, RWED Yellowknife

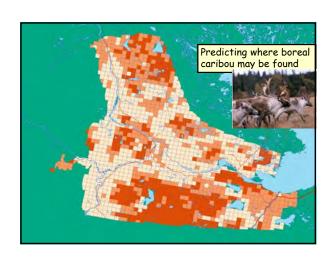




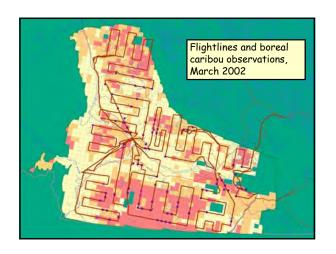


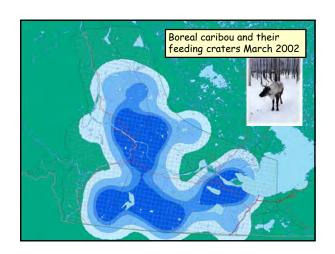


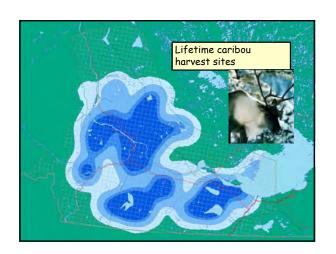




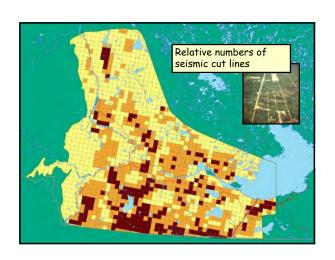


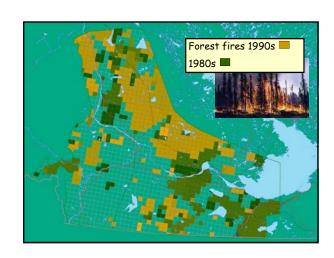


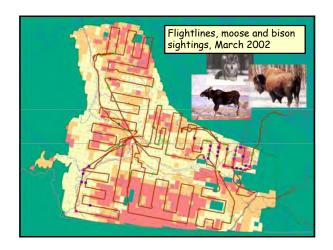


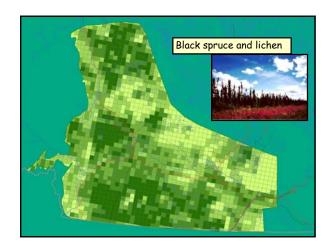


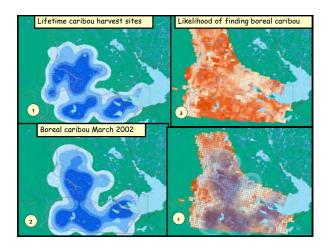








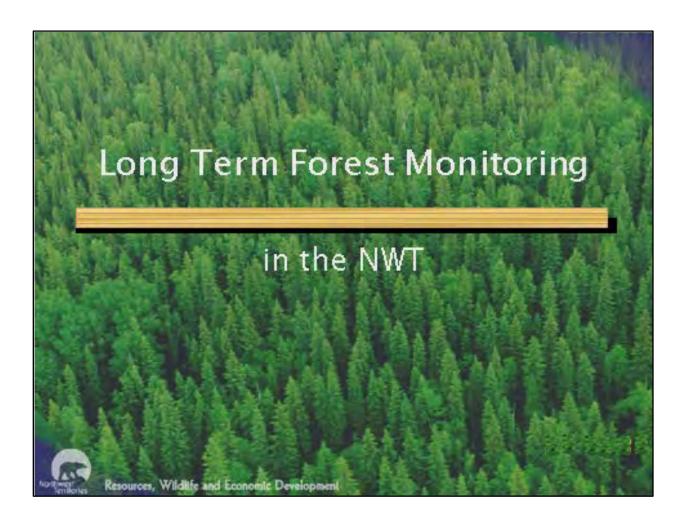




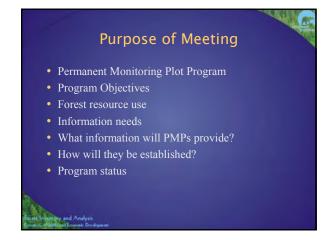
Appendix 10.

Long Term Forest Monitoring in the NWT

Presented by Tom Chowns, RWED Hay River







Permanent Monitoring Plots Program covers all of NWT Permanent plots provide forest and vegetation information over long periods of time Locations will be randomly selected from a 20 km grid covering the entire NWT Same location on the ground is measured every 5 to 10 years indefinitely





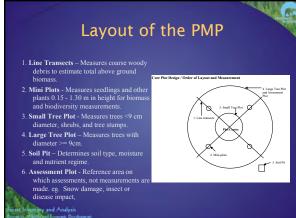






Permanent Monitoring Plots • Plan to establish 590 over the next 10-15 years | Region | G/Y PMPs | NFI PMPs | Total | | Inuvik | 65 | 19 | 84 | | Sahtu | 55 | 44 | 99 | | North Slave | 85 | 5 | 90 | | Deh Cho | 130 | 37 | 167 | | South Slave | 115 | 32 | 147 | | Total | 450 | 137 | 587 | • Access by helicopter, boat, and ATV • Two people x one full day per plot to establish • Should be established at the end of the growing season (late August)





Appendix 11.

Songbirds in the Liard Valley

Presented by Craig Machtans, CWS Yellowknife





About the Canadian Wildlife Service....

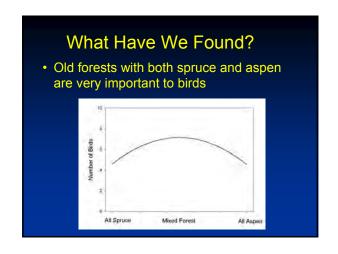
We are Canada's national wildlife agency and we handle wildlife matters that are the responsibility of the federal government. This includes the protection and management of migratory birds and nationally important wildlife habitat, endangered species, research on nationally important wildlife issues, control of international trade in endangered species, and international treaties.

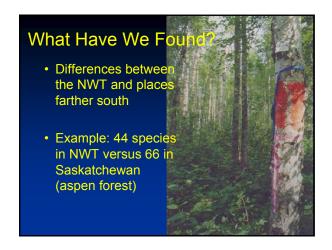


What is the Purpose of the Work? • Baseline data of national importance • Assist with understanding impacts of development • Eventually help provide population trends









What Else are We Doing?

 Studying the effect of cut lines (seismic lines) on birds









Other CWS Work

- Summary of all our activities in the north
 - Protected Areas
 - Waterfowl, shorebirds, other birds
 - Endangered species

More Information? Want to Share Ideas



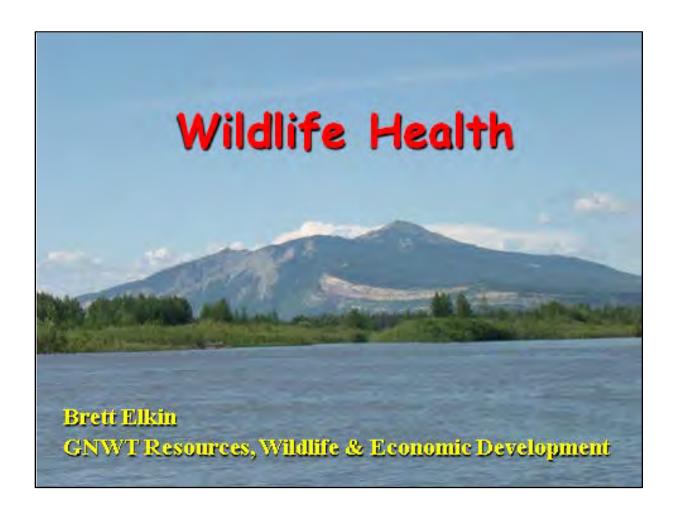
- **Contact Craig Machtans**
 - #301, 5204-50th Avenue, Yellowknife NT, X1A 1E2
 - Tel: 867.669.4771
 - Email: Craig.Machtans@ec.gc.ca
- See the Landbird Program Strategy on line

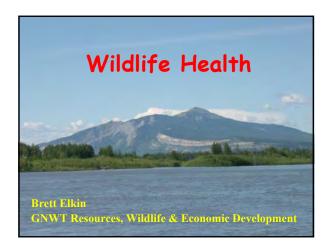
 http://www.pnr-rpn.ec.gc.ca/nature/migratorybirds/lb/dc32s00.en.html
- Go to national CWS web page
 - http://www.cws-scf.ec.gc.ca/index_e.cfm

Appendix 12.

Wildlife Health

Presented by Brett Elkin, RWED Yellowknife













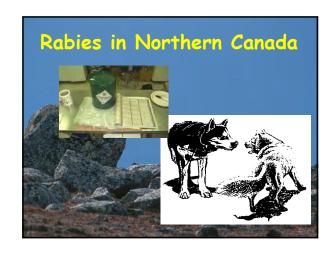


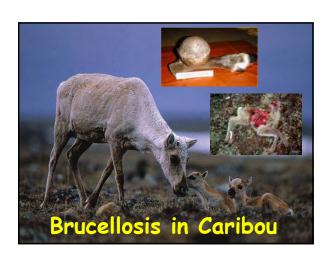


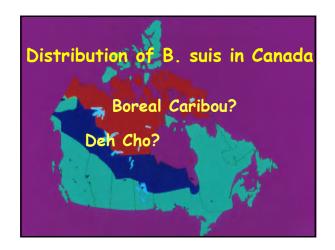




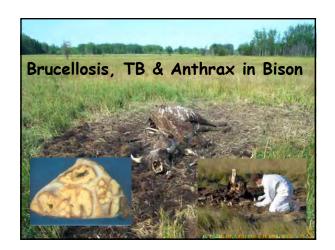


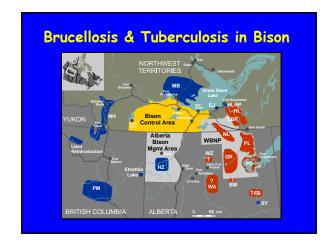


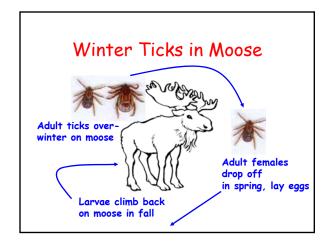




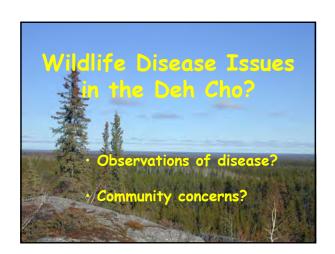












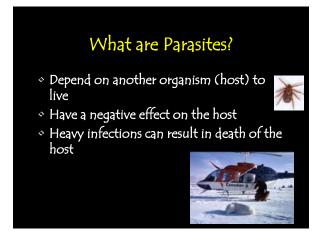
Appendix 13.

Parasites in Wildlife Populations: A Long Term Perspective for the North

Presented by Susan Kutz, University of Saskatchewan

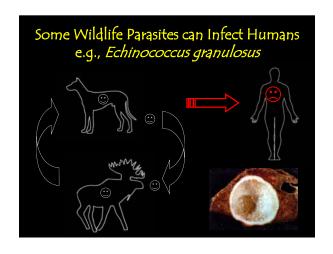


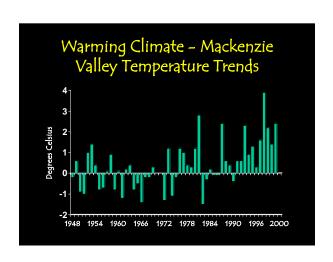






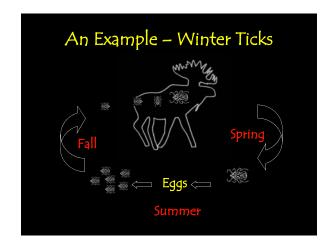






Warming Climate May Upset the Balance Movement of wildlife species to new regions = new parasites Increased survival and faster development

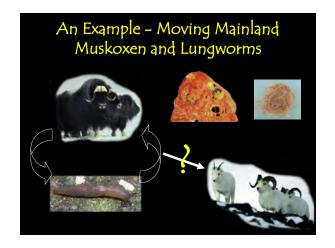
of parasites = heavier infections of wildlife



Where Do We Go From Here? Baselines!!

- What parasites?
- ♦ Who is infected?
- Where are the parasites found?
- ♦ How /when do hosts get infected?
- What are the effects on the host?

Predict emergence of parasites in new hosts and geographic regions



Current Projects



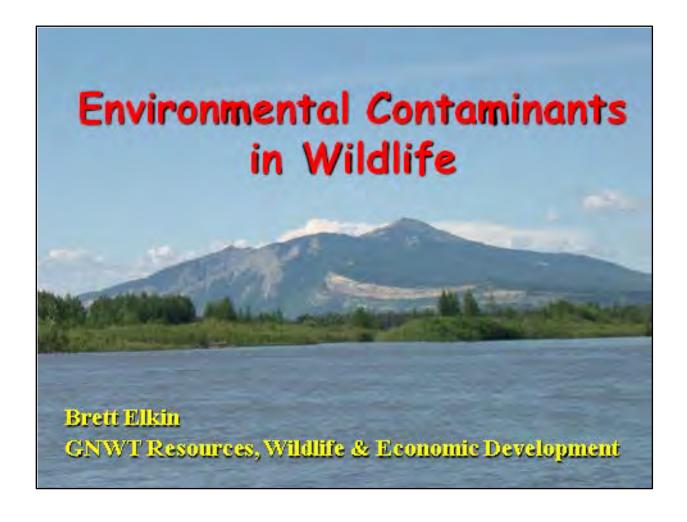
- ⋄ Dall's sheep
- ♦ Banks Island muskoxen
- ⋄ Bluenose caribou
- Lynx lungworms
- Sahtu Wildlife Health Project Baselines!

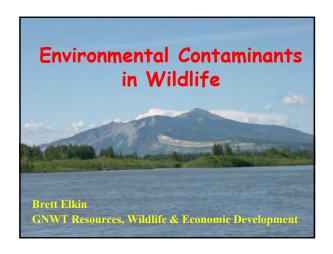


Appendix 14.

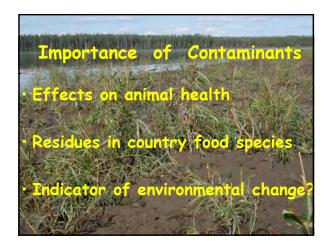
Environmental Contaminants in Wildlife

Presented by Brett Elkin, RWED Yellowknife

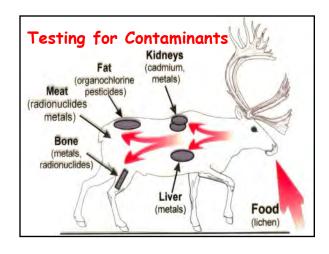






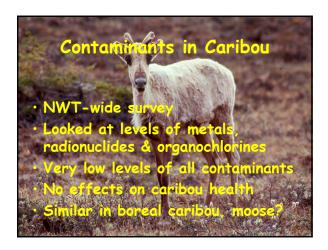




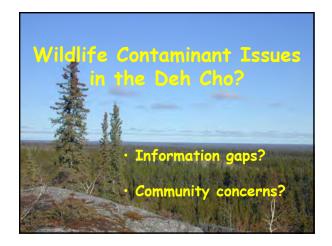












Appendix 15.

Where Does Research Go for the Deh Cho?

Presented by Nic Larter, RWED Fort Simpson

.

