CREE NATION PARTNERS



Moose Harvest Sustainability Plan

September 2013

DRAFT





Along the Little Churchill River, Inset Moose Cow with Twins



Cree Nation Partners Moose Harvest Sustainability Plan September 2013

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Prepared by the Cree Nation Partners

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1.0 Objectives

The Cree Nation Partners (CNP), comprised of Tataskweyak Cree Nation (TCN) and War Lake First Nation (WLFN), worked closely with Manitoba Hydro to develop this *Moose Harvest Sustainability Plan*. The Plan was developed to help achieve the following objectives:

- 1. Ensure that CNP Members' Treaty right to hunt moose for food, guaranteed under the *Constitution Act of Canada* (1982), continues to be meaningful for current and future generations.
- 2. Manage the substitute opportunities for CNP Members to hunt moose provided by their *Keeyask Adverse Effects Agreements*.
- 3. Contribute to the long-term sustainability of moose populations in the Split Lake Resource Management Area (SLRMA).

This Plan could also provide the basis for a Moose Management Plan for the SLRMA under the 1992 Agreement (1992 NFA Implementation Agreement).

2.0 Background

2.1 A Life-Giving Relationship with Moose

Members of the CNP have always had a life-giving relationship with moose. Moose have sustained them by providing food, clothing, and shelter and are an essential part of their culture. In return, CNP exercise their custodial responsibility to the best of their ability so that moose can prosper and this important relationship can continue forever.

2.2 A Treaty Right to Hunt

CNP Members have a Treaty Right to harvest moose for food that is guaranteed by the *Constitution Act* (1982) and the *Constitution Act* (1930). This Treaty Right has priority over the licensed hunt by Manitobans, Canadians, and outfitters and can only be infringed for conservation reasons and other compelling public interest objectives. Manitoba Conservation and Water Stewardship (MCWS) is responsible for the management of moose throughout Manitoba.

2.3 Previous Concerns with Moose Numbers

TCN have previously expressed concerns regarding the long-term viability/sustainability of moose numbers in the SLRMA. In response to these concerns, TCN participated in a moose count during the winter of 1993/4 and prepared a Moose Conservation Plan in cooperation with Manitoba Conservation to provide guidance regarding the best ways to sustainably harvest moose (*Split Lake Resource Management Board Moose Conservation Plan 1993/4*).

Manitoba Conservation estimated that there were 32,000 moose in Manitoba in 1997 (*Manitoba Conservation, 1997*) and the annual harvest by licensed sport hunters was about 1500 animals. No overall population estimate is available for more recent years but the estimated harvest by licensed hunters had

dropped to 939 animals 10 years later (*Manitoba Conservation Annual Report 2008-2009*). More recently, in response to the continuing reduction in moose numbers in some areas, MCWS instituted a conservation closure for moose hunting in eight game hunting areas (GHAs) in the western region and in one GHA on the east side of Lake Winnipeg in 2011 (*Moose Conservation Closure Regulation 122/2011*). Closure of these previously productive areas could shift hunting pressure north, increasing the moose harvest in the SLRMA and making it more difficult for CNP Members to exercise their Treaty Right regarding moose.

Further, although the number of resident licences issued has fallen, the number of licences allocated to non-resident moose hunters through outfitters and lodge operators has risen from 132 to 212 in the same period (*Manitoba Conservation*, 1997, *Manitoba Conservation*, 2009). Most of these allocations are in northern Manitoba and many are in the ancestral homeland of CNP.

2.4 A Connection to the Keeyask Generation Project

In February 2009, TCN and WLFN Members independently ratified the *Joint Keeyask Development Agreement* (JKDA) and partnered with York Factory First Nation, Fox Lake Cree Nation and Manitoba Hydro (Hydro) to own, construct, and operate the Keeyask Generation Project – a proposed 695 megawatt hydro-electric generating station, dam and associated infrastructure, 60 km downstream of Split Lake on the Lower Nelson River in the SLRMA (Map 1). The dam will have a hydraulic head of 18 metres and will replace Gull Rapids and Gull Lake with a 92 km² reservoir containing 45 km² of newly flooded land.

As part of the *Keeyask Generation Project Environmental Impact Statement* (June 2012), the *CNP Keeyask Environmental Evaluation Report* (January 2012) describes the intensive process CNP undertook to evaluate the effects of the Keeyask Project on themselves. This assessment was founded in the Cree worldview and core values, which stress the importance of healthy relationships with Mother Earth and respect for the land and water, and determined that many important aspects of CNP Members' lives would be adversely affected by Keeyask. During this process, CNP determined that their relationship with moose will be adversely affected, mainly due to the flooding and destruction of moose habitat in traditionally important hunting areas, and to the disturbance and noise caused by the construction of the Keeyask project.

Following this evaluation, TCN and WLFN negotiated and signed separate *Adverse Effects Agreements* (AEAs) with Hydro to mitigate all known and foreseeable Keeyask adverse effects. The AEAs include programs which provide CNP Members with substitute opportunities to pursue their relationship with moose.

Specifically, under Article 3 of the TCN AEA, the Spring and Fall Access Program provides Members with:

"...substitute opportunities to hunt, fish and trap for food and to carry out associated customs, practices and traditions integral to their distinctive cultural identity within the Split Lake Resource Management Area ."

Beginning March 31, 2009, the Access Program provides TCN with funding for access improvements and air transportation so that Members can carry out the above-mentioned customs, practices and traditions. It also provides for the management of the Access Program.

Under Article 3 of the WLFN AEA, the Offsetting Programs provide Members with:

"...appropriate replacements, substitutions and opportunities to offset unavoidable Keeyask Adverse Effects on practices, customs and traditions integral to the distinctive cultural identity of War Lake. The practices, customs and traditions affected include:

a) Hunting, trapping and fishing for food; ... "

3.0 Moose and Moose Management

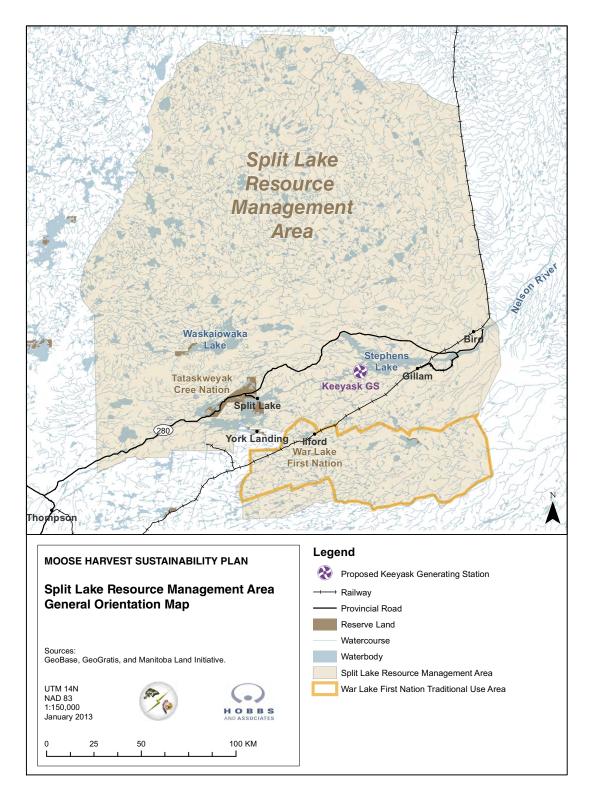
Most fish and animals reproduce in excess of what is required to maintain species numbers. This excess production, called the harvestable surplus or the allowable harvest by wildlife managers, is often fished or hunted to provide food for people. But the amount of surplus is limited, however, and its harvest must be carefully controlled to make sure populations do not decline. There are many examples of the consequences of overharvest, including the Atlantic Cod fishery off Newfoundland (now closed), Lake Sturgeon in Manitoba now being considered for Endangered Species status under the federal *Species at Risk Act* (2002), and moose in some areas of Manitoba (now subject to conservation closures).



Moose Cow with Calf

The intent of this Sustainability Plan is to calculate the size of the harvestable surplus and to recommend strategies to control hunting to ensure that it is not exceeded. The calculation starts with the number of calves added to the population each year and then subtracts from this number the losses due to all the natural mortality factors. The number remaining is available for harvest through hunting. This calculation requires the measurement of several population characteristics including numbers, bull-cow ratio and cow-calf ratio. Mortality factors are often estimated using Aboriginal Traditional Knowledge (ATK) and the scientific literature. The size of the harvestable surplus is related to the plant productivity of the area. Moose are browsers and eat willow, alder, birch and poplar, and water plants in summer. Mature spruce forest provides good cover, especially in winter when protection

from the weather is vital, but it contains little food. The richest areas for food plants are recent burns. By the sixth year after a fire, moose food plants are increasing rapidly. Moose respond to this rich food supply by moving into the burn area and increasing their numbers. Well-nourished cows produce more twins. This moose increase lasts for about 20 years after the fire, until spruce again take over. Burn areas are good places to harvest moose, but cows have to be protected to maintain numbers (Moose Conservation Plan 1993/94).



Map 1 – General Orientation Map

4.0 Moose Management Elsewhere

Moose can reach very high densities when predation mortality is low and plant productivity is high. They were introduced to Newfoundland in 1904 and after a slow start, increased rapidly and now number about 125,000 on about 75,000 km² of habitat. The average density is 1.7 moose/km², but in some areas it is 4/km² and in Gros Morne National Park, where hunting is not allowed, the density is 7/km². Wolves do not occur in Newfoundland; hunting kills 20,000 moose annually (20% of the herd). It is acknowledged that there are too many moose; vegetation is being damaged through over-browsing and collisions with vehicles are frequent. A management goal is to reduce density in all areas to less than 2/km² through hunting (McLaren et al 2004).

Ontario is typical of good mid-continental moose habitat. Based on 2011 estimates, about 914,900 moose inhabit an area of 9,890,899 km² (0.08 moose/km²) and numbers are considered to be stable or increasing in most areas. Based on the 3 administrative districts in Ontario, moose density ranges from 0.05/km² in the Southern Region to 0.11/km² in the NorthWest Region. Predators include wolves and black bears, and diseases, parasites, and accidents are other mortality factors. The hunting kill in 2011 was 6260 moose, representing 7% of the total Ontario population (Ont MNR 2013).

The Newfoundland and Ontario examples show the influence of wolves on the harvestable surplus. In Newfoundland, the hunter kill is 20% of the herd and moose continue to increase. In Ontario, hunter kill ranges from 4-15% across a number of management units and numbers are generally stable (Rodgers 2008).

5.0 Our Plan

The SLRMA comprises 43,169 km² and is less productive for moose than either Newfoundland or Ontario due to the long winters and the short, cool growing seasons. Here, moose are near the northernmost limit of their range and in the winter of 2009/10, numbers were estimated at 2,600 plus or minus about 550 animals (Knudsen et al 2010). Overall density was 0.06/km² but is highly variable, ranging from 0.02 to 0.34/km². There were 118 bulls per 100 cows, indicating that despite the recommendations of the 1993/4 Moose Conservation Plan, too many cows are still being killed. All of these bulls are not required to fully inseminate the cow herd and some can be harvested with little effect on moose reproduction. Although nearly all of the cows produce a calf or calves in spring, many calves are killed by black bears and wolves and only 36 calves/100 cows are still alive by January of the following year (Knudsen et al 2010). The 1993/4 Moose Conservation Plan stated that wolf predation "does not have a significant impact on the moose herd." Over the past 20 years, the situation may have changed as hunters and trappers are reporting sighting more wolves, and in the development of this Plan, wolf predation of calves and adults is considered to be a major source of mortality.

The very wide range of densities reported in January 2010 (Knudsen et al 2010) indicates that some areas are quite productive for moose while others contain hardly any. This lack of uniformity means that a single management plan for the SLRMA will not work effectively – instead, several plans were developed, each using the same approach but tailored to a specific portion of the SLRMA. Appendices A

to D provide a detailed description of the process utilized to develop the plan and describe its operation. The key components of the plan include:

- 1) Population Survey: In January and February 2010, a detailed aerial survey of the SLRMA was conducted to provide estimates of moose numbers and distribution, bull-cow ratio and cow-calf ratio (Knudsen et al 2010).
- 2) Area Classification: The SLRMA was divided into 7 management units of approximately equal size. Boundaries were based on landscape, drainage, moose density, traditional use patterns, concentrations of human activity, and consultation with CNP Members (Map 2).



Gray Wolf

3) Plan Development: Experts in wildlife population survey and management developed the plan in consultation with a number of resource harvesters from CNP and regional wildlife staff from MCWS. An introductory meeting discussed and planned the process to be used and three workshops were subsequently held in Winnipeg and Thompson to plan the survey and to develop and refine the plan.

- 4) **Computer Modelling:** A computer model for each management unit was developed to provide a calculation of the allowable harvest and a five-year projection of moose numbers based on current harvest levels and other factors. The model starts with the size of the population immediately following calving in 2010, calculated using data from the survey. All sources of mortality throughout the year are then estimated and subtracted from the starting number and a determination is made of whether the moose population is stable, is being overharvested, or could tolerate a greater hunting kill. Wolf predation is an important mortality factor and was estimated using an ungulate (moose and caribou) biomass technique.
- 5) **Plan Operation:** The computer program containing the model will be installed in the Access Program management office and two individuals will be trained in its operation. As updated information becomes available, particularly information on hunting kills, it will be entered into the model and new projections will be produced regarding allowable harvest. It is important that location and sex of all hunting kills be recorded and entered. The computer program will track the progress of the Access Program harvest each year as people go out hunting and report moose kills, and will allow management staff to advise when the allowable harvest for each management unit has been reached. Program managers will then be able to direct hunters to other management units. The five-year moose population trend forecast for each management unit will be updated annually.
- 6) Monitoring: An adaptive management approach will be used which depends on the accurate reporting of information regarding the location according to management unit and sex of all moose kills. Consideration will be given to supplying maps and GPS receivers to ensure accurate location information. As more recent or more accurate information is entered, the computer model will be used to recalculate the allowable harvest and provide a new five-year projection. After five years of operation, an aerial survey of some areas of the SLRMA should be conducted using the approach of the 2010 survey to confirm the accuracy of the five-year population trend predictions.

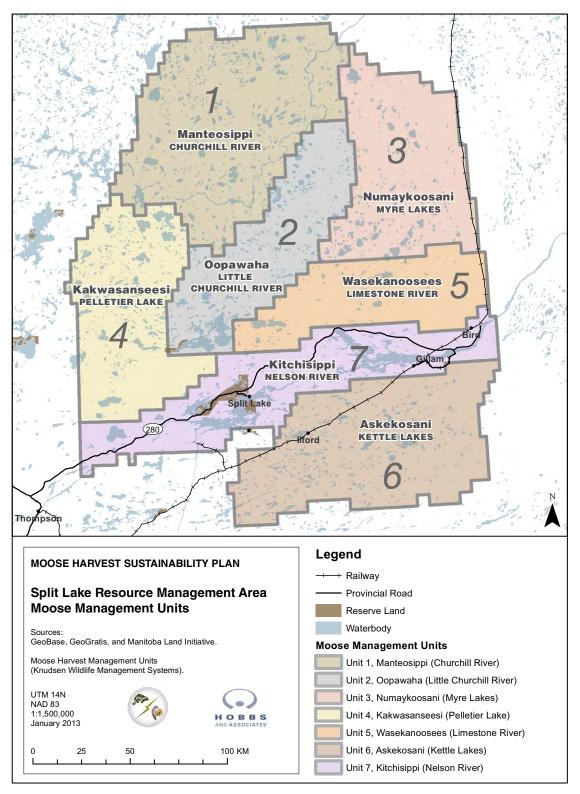
- 7) Administration: It is anticipated that the Access Program management team and the Moose Harvest Sustainability Plan computer operators will be located in the Keeyask Centre (located on-Reserve in the community of Split Lake).
- 8) **Communication and Outreach:** The success of the Access Program in continuing to provide meaningful relationships with moose for CNP Members and the success of this plan in ensuring that the SLRMA moose population continues to thrive requires that CNP Members harvest



TCN Member Marcel Beardy Conducting an Aerial Moose Survey

mostly bulls and that they report the location and sex of all moose kills. A communications strategy to convey to Members details of the Plan's operation and their responsibilities to ensure that it works as designed will be developed using a variety of communication approaches and products. In addition, an approach should be developed with the SLRMB to ensure they receive regular updates on the Access Program and to provide a forum for ongoing discussion of all aspects of moose management. Operation of this plan as described will ensure that both CNP's relationship with moose and the moose themselves will continue to prosper in the

SLRMA. The plan could also provide the basis for a moose management plan for the SLRMA. Further, a close working relationship with the SLRMB will develop which will have benefits to CNP in other areas of the Board's activities and responsibilities.



Map 2 – Moose Harvest Management Units

Appendix A Detailed Methodology

A-1 Aerial Surveys of Moose, 2009 and 2010

In March 2009, preliminary aerial surveys were flown in the SLRMA to map the approximate distribution and abundance of moose. In January and February 2010, more detailed flying was done with fixed-wing aircraft and helicopters to derive the estimate of 2600 for the total moose population of the RMA. Survey crews consisted of members of the CNP communities who had been trained as aerial survey observers, and staff from Wildlife Resource Consulting Services MB Inc.

Including review, survey plan participants included:

Victor Spence - TCN (Tataskweyak Cree Nation) Jonathan Kitchekeesik - TCN Councillor Alex Cook - TCN Robert Spence - TCN Councillor Ron Danielson - TCN Jeff Laliberty - WLFN (War Lake First Nation) Rob Cottreau - CNP Advisor Ian Dickson - CNP Advisor Joe Keeper - CNP Advisor Jack Dubois - Manitoba Conservation Harold Westdal - CNP Advisor Councillor Victor Flett - TCN John Whitaker - CNP Advisor Marcel Beardy - TCN John Garson - TCN Michael P. Garson - TCN Joseph Harvey - TCN Bryant Keeper - TCN Douglas Kitchekeesik - TCN Robert Berger - WRCS (Wildlife Resource Consulting Services MB Inc.) Brian Knudsen - KWMS (Knudsen Wildlife Management Systems) Daryll Hedman - Manitoba Conservation Vince Crichton - Manitoba Conservation Ken Rebizant - Manitoba Conservation

A-2 Plan Development Meetings

Meetings between the CNP Members or representatives, Hobbs and Associates, Wildlife Resource Consulting Services and Knudsen Wildlife Management Systems were held on three occasions. An orientation meeting was held in Winnipeg in April 2011. People were arriving and departing throughout the meeting, and not all attendees were documented. In July 2011, a workshop was held in Thompson with CNP Members to present plan concepts and solicit comments on tentative moose management units. In November 2011, a second workshop was held in Thompson with CNP Members to finalize the

boundaries and names of moose management units and present some elements of the draft management plan, such as vision statements, goals, and computer simulations.

A-3 Plan Attendees

Orientation Meeting

John Whitaker – Cree Nation Partners (CNP) Joe Keeper - CNP Adrian Skok - CNP Victor Spence – Tataskweyak Cree Nation (TCN) Gordon Spence - TCN Lorna Keeper - TCN Bryant Keeper - TCN Lynda Kitchekeesik - TCN Marcel Beardy - TCN Leslie Flett - TCN William Beardy - TCN Anette Garson - TCN John Kirkness - TCN William Garson - TCN Elle Garson - TCN Victor Flett - TCN Douglas Kitchekeesik - TCN Jonathan Kitchekeesik - TCN Kenneth Wavey - TCN Elijah Dick - TCN Lazarus Kitchekeesik - TCN Chief Betsy Kennedy – War Long First Nation (WLFN) Jeff Laliberty - WLFN Hector Spence - WLFN John Laliberty - WLFN Rob Berger – Wildlife Resource Consulting Services (WRCS) Brian Knudsen – Knudsen Wildlife Management Systems (KWMS) Rachel Boone – Manitoba Hydro (MH)

Workshop 1 - Thompson, MB

John Whitaker - CNP Adrian Skok - CNP Joseph Harvey - TCN Jonathan Kitchekeesik Jr. - TCN Robert Flett - TCN Leslie Flett - TCN John Garson - TCN Nelson Spence - TCN Juda Spence - TCN George Kitchekeesik - TCN Bryant Keeper - TCN Lorna Keeper - TCN Lynda Kitchekeesik - TCN William Beardy - TCN Douglas Kitchekeesik - TCN Marcel Beardy - TCN Keith Kitchekeesik - TCN Robert Spence - TCN Henry.J. Ouskan - WLFN Hector Spence - WLFN John Laliberty - WLFN Jeff Laliberty - WLFN Vicki Trim - Manitoba Conservation and Water Stewardship (MCWS) Daryll Hedman - MCWS Robert Berger - WRCS Brian Knudsen - KWMS Dale Stewart - Consultant to MH Rachel Boone - MH

Workshop 2 - Thompson, MB

John Whitaker - CNP Adrian Skok - CNP Jonathan Kitchekeesik Jr - TCN Joyce Mayham - TCN Bryant Keeper - TCN Lorna Keeper - TCN Douglas Kitchekeesik - TCN Joseph Harvey - TCN Nelson Spence - TCN Randy Beardy - TCN Abraham Keeper - TCN Robert Flett - TCN Mike Flett - TCN Josh Spence - TCN Marcel Beardy - TCN Leslie Flett - TCN John Laliberty - WLFN Henry Ouskan - WLFN Roy Ouskan - WLFN Hector Spence - WLFN Daryll Hedman - MCWS Rob Berger - WRCS Brian Knudsen - KWMS Rachel Boone - MH

A-4 Approach To Building The Management Plan

The SLRMA is a large area, with considerable variation in moose population density, human population density, habitat quality, and the presence of infrastructure elements (*i.e.* roads, railways, towns). The resulting diversity means that there is no way to create generalized guidelines which apply everywhere in the RMA. In order to allow management to be tailored to local conditions, the RMA was divided into seven moose management units.

A simple computer model was programmed for each unit to summarize the changes of the local moose population, keeping track of reproduction and mortality. The information available to manage the SLRMA is very basic, and often anecdotal. It may be that in the future, the accumulated body of data about this moose population will be large and precise enough that more complex models will become appropriate, but that day is many years away.

Each time a model was run, it simulated five years of moose mortality and reproduction. Levels of mortality were varied to show the response of each moose management unit's population to different intensities of harvest and predation, and an optimal annual harvest was derived for each management unit.

The 1994 moose management plan emphasized that the moose harvest by First Nations hunters must be reported and recorded. This plan endorses this approach, and provides a system to allow the moose harvest to be monitored, recorded, evaluated against the allowable harvest and adjusted for each management unit.

A-5 Moose Management Units

A-5.1 Creation of the Units

When the management units were created, several principles were applied to make the units appropriate from a number of different perspectives.

A-5.2 Meaningful Boundaries

First Nations hunters in the Split Lake area, when speaking about moose and moose hunting, refer frequently to certain key lakes and rivers. As much as possible, the management units were oriented to focus on these lakes and rivers, keeping each one completely within a single unit. Boundaries were laid out to avoid going through these areas, which tend to have high densities of moose. This principle ensured that, for example, if someone referred to moose along the Little Churchill River, it would not be necessary to get a more precise location. The entire Little Churchill River is in one management unit.

A-5.3 Meaningful Names

The same geographical reference points that were used to draw the boundaries were used, as much as possible, to name the units. Certain key lakes and rivers were used to identify the general area around them. It seemed that if the same geographical references were used to name the management units, there

would be an intuitive meaning to the units. Essentially, a standardized vocabulary already existed, and we were only applying it. The seven names of the management units (

Table A-1) were submitted by Overview of Water and Land (OWL) staff and some additional First Nations individuals, and were then evaluated, modified, and accepted in a meeting of November 15, 2011, in Thompson.

Number	Name (English)	Name (Cree)	Area (km ²)
1	Churchill River	Manteosippi	8,961
2	Little Churchill River	Oopawaha	5,152
3	Myre Lakes	Numaykoosani	5,919
4	Pelletier Lake	Kakwasanseesi	5,820
5	Limestone River	Wasekanoosees	4,270
6	Kettle Lakes	Askekosani	7,580
7	Nelson River	Kitchisippi	6,208

 Table A-1:
 The names and sizes of the Split Lake Resource Management Area moose management units

A-5.4 Appropriate Size

The choice of seven management units was made to create units that were similar to the Game Hunting Areas (GHAs) of Manitoba that are used to manage licensed big game hunting. These GHAs have been used for over 30 years. The mean size of the seven moose management units is 6,273 km², which is comparable to the major GHAs of southern Manitoba.

A-5.5 Minimize Movement Between Units

A key element of managing wildlife populations is to have current estimates of population size, therefore in future years, it will be necessary to fly aerial surveys of selected management units in the SLRMA. When the population of a management unit is estimated by one of these surveys, and compared with the 2010 estimate, it will be important to be confident that any changes were the result of mortality and reproduction within the unit, rather than the result of random movement of moose across the unit boundaries. By drawing boundaries through areas of low moose density (as described above), random movements between units should be minimized.

A-6 Characteristics of the Units

A-6.1 Ecological Overview of Moose Management Area

A variety of ecological conditions occurs throughout the SLRMA since it overlaps three Ecozones and four Ecoregions. Approximately 13% of the SLRMA is surface water, with this percentage ranging from 6% to 22% across the moose management units (Maps 1 and 2).

Surface materials in the SLRMA (Map A1) are dominated by lacustrine clays that were deposited by glacial Lake Agassiz. Fine and coarse textured marine deposits occur along the eastern margin of the RMA. Glaciofluvial ridges occur sporadically in the southwestern half of the area. Till blanket is most common in the northeastern and southern portions of SLRMA. Since the retreat of Lake Agassiz, organic deposits have developed over much of the area, with the main exceptions being on the glaciofluvial and coarse marine deposits.

Most of the northeastern half of the RMA falls within a subarctic climate while the southwestern half is in the subhumid high boreal ecoclimatic zone. Mean monthly temperatures decline along a line running from the southwest to the northeast portions of the rma. Corresponding with this temperature trend are an increasing amount of permafrost and a growing season length that declines by approximately 400 growing degree days (above 5° C).

Terrestrial vegetation in the SLRMA is primarily sparsely to moderately densely treed needleleaf woodlands. Tree canopy closure tends to decline moving northwards, and untreed vegetation types are most common in the northeast portion of the RMA. The southern quarter of the SLRMA differs from overall composition in several respects. Most of the moderately to densely treed needleleaf woodlands and dense needleleaf forest are located in this area, and broadleaf trees are more common. Shrublands are less abundant. This area also has a more even mixture of the various vegetation types found in the RMA. The north-central portion of the RMA is dominated by sparsely treed needleleaf woodlands.

Much of the SLRMA has been burned by large wildfires over the past twenty years. The southern quarter of the RMA has a lower proportion of its area in burns less than twenty years old. Approximately 45% of the land area was burned between five and twenty-years prior to the SLRMA moose population survey.

The following moose management units are described from an access, water and landscape perspective, and include a highlight of substantial differences as described above from the overall ecological conditions for the SLRMA.

A-6.2 Unit 1: Manteosippi (Churchill River)

The Manteosippi unit is the most remote unit in the RMA. From Split Lake to the north edge of this unit is 200 km. There are no direct water routes into this area from local communities. The railway to Churchill, which could provide limited snowmobile access, is 70 to 170 km away, on the east side of the RMA; otherwise, fly-in access is the only reasonable means of accessing this management unit. Barrenground caribou can be abundant in this unit in the winter. During aerial surveys looking for moose tracks, flights over some parts of the unit had to be aborted because of disruption caused by the high density of caribou tracks.

The Churchill River flows through the Manteosippi unit from the southwest corner to the northeast corner, staying close to the southern and eastern boundaries. There are no other major watercourses. Major lakes include Hogg, Fidler, Solmundsson, Gersham, Numaykoos and Buckland. Numaykoos Provincial Wilderness Park overlaps with the Manteosippi unit on the north boundary of the unit.

This is one of the two coldest units in February and July. It has the highest proportion of medium density needleleaf woodland. This is one of the three units that has a very high proportion of its area burned between five and twenty-years prior to the SLRMA moose population survey.

A-6.3 Unit 2: Oopawaha (Little Churchill River)

The Oopawaha unit is dominated by Waskaiowaka Lake and the Little Churchill River, both of which are completely contained by the unit. Recluse Lake, in the centre of the unit, is an S-shaped widening of the Little Churchill, and is frequently mentioned by First Nations hunters in accounts of moose hunting in this area. Embleton Lake is in the north half of the unit, between the Little Churchill and the Churchill Rivers.

A major snowmobile trail runs from Split Lake to Waskaiowaka Lake, and from there snowmobile trails extend north and north-east throughout the unit to all of the major lakes along the Little Churchill River. Direct water access from local communities is difficult, but after flying in to Waskaiowaka or Recluse Lakes or the confluence of the Churchill and Little Churchill Rivers, travel along the Little Churchill River is possible, especially when water levels are high. There are many cabins and hunting camps throughout this unit.

This unit has the second highest proportion of medium density needleleaf woodland and the highest proportion of sparsely treed needleleaf woodland. This unit has a relatively low proportion of its area burned between five and twenty-years prior to the SLRMA moose population survey.

A-6.4 Unit 3: Numaykoosani (Myre Lakes)

Numaykoosani is also a remote unit, but in the winter is somewhat accessible by snowmobile along the railway right-of-way. The railway itself is used to get to some remote cabins in the area. A prominent feature is the string of lakes that run from southwest to northeast: Little Cygnet, Myre, Strobus and Weir. Other prominent lakes are Whitecap, Mistake and Bradshaw. The Owl River originates in the Numaykoosani unit, at Owl Lake.

Snowmobile access from Split Lake is along PR 280 to the north arm of Stephens Lake. From here, trails head north to Cygnet and Myre Lakes and connects Myre to Recluse Lake. Water access begins with flying in to Myre, Strobus, Weir and Whitecap Lakes. From Myre, 3 smaller lakes can be accessed by boat; from Whitecap, the Little Churchill River is accessible by boat.

The surface material composition of this unit deviates most greatly from the rest of the RMA. A considerably higher proportion of till blanket offsets less fine lacustrine material, and this is the only unit that includes coarse marine deposits. This is one of the two coldest units in February and July and is one of the three units that has had a very high proportion of its area burned between five and twenty-years prior to the SLRMA moose population survey.

A-6.5 Unit 4: Kakwasanseesi (Pelletier Lake)

The Kakwasanseesi unit lies on the west side of the SLRMA. There are a number of sizable lakes: Pelletier, Campbell, White Stone and Pearson in the south half of the unit, and Settee, Christie, Holmes and Thomas further north, near the Churchill River.

Snowmobile access from Waskaiowaka Lake connects all major lakes, many of which have cabins. Water access is fly-in, and major destinations are Pelletier, Big Beaver Dam, Big Jack, Settee, Christie and Thomas lakes. Boat access to Christie is from Holmes Lake, and Pelletier may be accessed by boat from Waskaiowaka using the Rasp River.

Surface materials include a substantially higher proportion of glaciofluvial materials and a lower proportion of till. While February temperatures are similar to the RMA average, July temperatures are higher. This unit has the highest proportions of dense needleleaf forest and moderately dense needleleaf woodland and a relatively low proportion of very sparsely treed areas. This is one of the three units that has a very high proportion of its area burned between five and twenty-years prior to the SLRMA moose population survey.

A-6.6 Unit 5: Wasekanoosees (Limestone River)

Limestone Lake and the Limestone River are completely contained within the Wasekanoosees unit. The unit is very accessible in some ways, being close to communities and PR 280, but in conversations with First Nations hunters, it was reported that some parts of the unit are very difficult to travel in. Cygnet Lake is the most prominent feature in the north half.

Snowmobile access from Split Lake is to Little Limestone Lake and on to Limestone Lake. There is a separate trail to Cygnet Lake. Water travel is limited, and most access is fly-in, with major destinations being Limestone, Cygnet and Little Limestone lakes.

Surface materials in this unit include substantially higher proportions of fine marine and glaciofluvial materials and lower proportions of fine lacustrine and till materials. This is one of two units to have a substantially lower proportion of surface water compared with the rest of the RMA. It has the second highest proportion of sparse needleleaf woodland. This unit has a relatively low proportion of its area burned between five and twenty-years prior to the SLRMA moose population survey.

A-6.7 Unit 6: Askekosani (Kettle Lakes)

The Askekosani unit has some large patches of mixedwood forest. Access is good in the northern half of the unit, while the southern half is considered remote. Ilford is inside the unit, and is connected to Gillam, near the northeast border of the unit, by the railway line. Existing transmission lines, other trails, lakes and streams are also used in winter for travel, harvest and trapping purposes. Some prominent lakes are Atkinson, War, Butnau, Hawes, Kettle and Dafoe. As one travels into the unit from the north, the creeks and rivers, which flow primarily east-northeast, create important landmarks or obstacles: Kettle, Cyril, Dafoe, High Hill and Bigstone.

Split Lake is connected by snowmobile trails to Diana, Joy, and Dafoe lakes and Kettle Lake is similarly connected to both Split Lake and Gillam. Water access is fly-in and major destinations include Atkinson, War, Diana, Joy, Dafoe and Kettle Lakes.

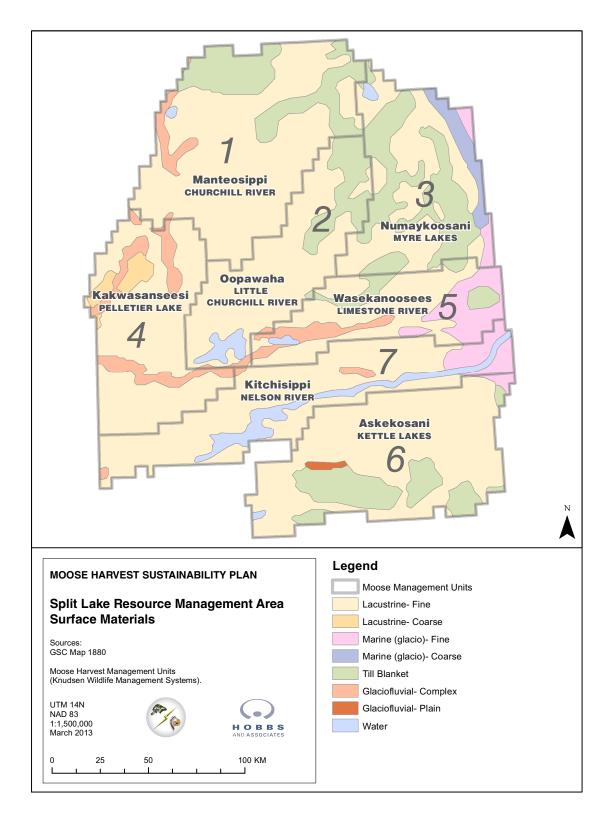
In the southeast corner, these rivers, except for the Kettle, drain into the Fox River, which in turn drains into the Hayes River. The Fox River area is important moose habitat, and receives regular fly-in hunting pressure.

Surface water accounts for a substantially lower proportion of the unit compared with the rest of the RMA. This is one of the two warmest units in February and July. This unit has the highest proportions of its land area in sparse needleleaf dominated mixedwoods and very sparsely treed areas and a relatively low proportion of sparse needleleaf woodland. This unit has a relatively low proportion of its area burned between five and twenty-years prior to the SLRMA moose population survey.

A-6.8 Unit 7: Kitchisippi (Nelson River)

Unit 7, Kitchisippi, is a corridor of development in the RMA, dominated by communities, roads, hydroelectric development and the Nelson River. Two lakes, expansions of the Nelson River, take up much of the unit's area: Stephens Lake in the east and Split Lake in the west. In the western portion of the unit, important water features are Assean Lake, Assean River, Hunting River, Orr Lake and the Odei River. Considerable human activity is associated with the infrastructure. Winter access trails are distributed throughout the unit, and other linear features including transmission lines and railways are present. The Kitchisippi management unit was created specifically to enclose most of the human activity in the SLRMA, and deal with existing and potential future impacts on moose.

Because this unit includes the Nelson River, it is the only unit to have a substantially higher proportion of surface water compared with the rest of the RMA. Surface materials in this unit include substantially higher proportions of fine lacustrine and fine marine and a lower proportion of and till materials. This is one of the two warmest units in February and July. This unit has the second highest proportions of sparse needleleaf dominated mixedwoods and very sparsely treed areas accompanied by a relatively low proportion of sparse needleleaf woodland. This unit has a relatively low proportion of its area burned between five and twenty-years prior to the SLRMA moose population survey.



Map A1 – Surface materials in SLRMA

Appendix B Population Simulations

B-1 Purpose of the Model

The purpose of the model is to gather all the factors that influence the moose population of a management unit, and create a five-year projection of the size and structure of the population. These projections generate an allowable harvest for each management unit, and provide a context for ongoing monitoring. The workings of the model and the derivation of input values are explained in the following sections, The Input Values section is necessarily quite detailed, because it involves estimating the distribution and abundance of wolves, which in turn requires estimating the distribution and abundance of caribou. Although this plan is described as managing moose, the moose are inseparable from wolves and their major alternate prey, caribou, as will be described below.

B-2 Structure of the Model

The model begins with the moose population of one management unit, starting in January 2010, and applies mortality factors, such as predation and hunting, to delete moose from the population in the same sequence that would happen in nature during the year. Moose are added to the population once each year, in the spring when calves are born. Each simulation runs for five years.

The first mortality factor is winter predation by wolves. The next is weather-related winter mortality. The complete list of annual events is shown in Table B-1.

Mortality factors are not applied the same way for all events. Some mortality is applied to age and sex groups (bulls, cows and calves) in proportion to their abundance in the population. Other mortality factors are applied using weights, which delete a specified percentage of the total mortality from each age/sex group. The weightings and the number of moose lost are made clear in the model, and can be scrutinized in the results.

Each simulation occurs on one page of a spreadsheet (see Appendix D). The inputs to the model are listed in two tables (see Appendix C). One shows the magnitude of mortality factors and the second shows the weighting of mortality factors (such as 40% bulls, 20% cows and 40% calves). The results are summarized in four ways:

- a table showing the January population for each year
- a graph of the January populations
- a table showing the percentage of bulls, cows and calves in the population each January
- a graph of the percentage of cows in the population

In addition to these summary tables, a complete table of each simulation's results was stored. These tables are presented in Appendix D.

Month(s)	Event
January-February	Winter wolf predation
March	Winter weather mortality
May	Reproduction
June-August	Postnatal mortality of calves
September-October	Domestic First Nations harvest
September-October	Resident licensed harvest
September-October	Non-resident licensed harvest
October	Wounding mortality From hunting
November-December	Fall wolf predation
December	Black box mortality (e.g., disease, accidents)

 Table B-1:
 Factors influencing the moose population during each simulated year

B-3 Input Values

Some input values were derived from formally acquired data, gathered according to a carefully designed sampling scheme. This is the case with the estimates of moose populations, gathered by the aerial surveys of 2009 and 2010. Other data are very approximate, such as estimates of mortality from accidents and disease. These factors are very difficult to measure. Between these two extremes, there are input values that can be derived from the extensive biological literature dealing with moose, wolves, caribou, and the relationships between them. CNP Members provided input data relating to moose densities, wolf densities and wolf pack locations.

The detailed derivations of all these values are presented below.

B-3.1 Starting Populations

The 2010 aerial survey of moose in the SLRMA divided the area into 2,580 sample units, with an average size of 17 km². Each sample unit was classified as having a moose density that was high (HI), medium (MED), low (LO), or extra-low (XLO). To calculate the moose population for each management unit as of January 2010, each unit was partitioned into the total area of each density level (Table B-2). Each area was multiplied by the stratum-specific densities of bulls, cows and calves (Table B-3) to assemble a population for the unit (Table B-4). These populations are shown graphically in Figure B-1.

			Area (l	km²)	
Management Unit Number	Management Unit Name	XLO ¹	LO	MED	HI
1	Manteosippi	3,922	4,005	868	167
2	Oopawaha	1,932	2,424	780	17
3	Numaykoosani	4,187	1,228	488	17
4	Kakwasanseesi	495	2,833	2,048	444
5	Wasekanoosees	649	1,759	1,503	359
6	Askekosani	2,921	1,721	2,382	556
7	Kitchesippi	2,673	1,966	1,397	172

 Table B-2:
 Density levels in each moose management unit

Table B-3: Densities of bulls, cows, and calves in each density level

		Densities (animals/km ²)	
	Bulls	Cows	Calves
XLO ¹	0.0039	0.0078	0.0039
LO	0.0241	0.0134	0.0053
MED	0.0344	0.0292	0.0135
HI	0.1501	0.1474	0.0199

Management Unit	Bulls	Cows	Calves	Total
Manteosippi	194	156	60	410
Oopawaha	112	86	37	235
Numaykoosani	77	78	35	190
Kakwasanseesi	243	196	63	502
Wasekanoosees	176	147	46	369
Askekosani	254	229	74	557
Kitchesippi	154	133	50	337
Total	1,210	1,024	365	2,600

 Table B-4:
 Starting population used in simulations for each moose management unit

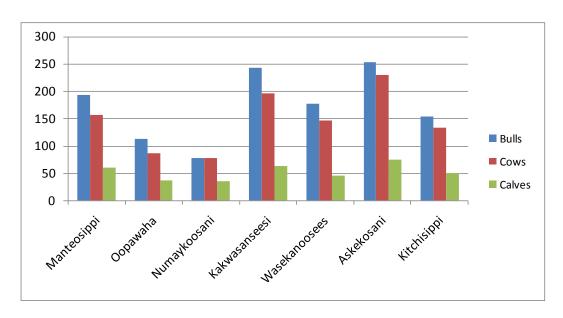


Figure B-1: The age/sex structure of the starting populations of all moose management units

B-3.2 Winter Wolf Predation

Wolf predation is a difficult, but not impossible, input factor to estimate in the absence of data from intensive field studies. The following material elaborates on how wolf populations can be estimated from ungulate biomass, which can be estimated by combining moose survey data with an approximate calculation of caribou density.

Wolf predation on moose can be broadly divided into two categories: predation on newborn calves and predation on all members of the moose herd in the fall and winter. For the purpose of this model, wolf predation on newborn calves is included in the category of Postnatal Mortality, along with predation by black bears and deaths from other factors. The category name "Total Wolf Predation" is really the

predation that takes place during the 200 days from mid-fall to early spring. This period is convenient, because much of the literature expresses kill rates during this period as moose killed per wolf per 100 days. To allocate total mortality appropriately, it was divided into equal halves: one for winter and early spring and one for late fall. To reflect the higher vulnerability of calves and bulls stressed by the rut, the kill was weighted so that it was 40% bulls, 20% cows and 40% calves.

In order to estimate the total number of moose killed annually by wolves in each moose management unit, it was necessary to estimate the number of wolves. Aerial surveys, of the type used for moose, are not practicable for wolves because of the scarcity, mobility and smaller size of wolves. Individual wolves and packs can be detected and followed by small fixed-wing aircraft, but this method is prohibitively slow and expensive to be used to census large areas. Fortunately, a close relationship has been established between wolf numbers and the biomass of their ungulate prey. By estimating the total ungulate biomass of the SLRMA, one can generate the number of wolves that would be expected to be supported by that prey base. In the SLRMA, moose abundance has been known since 2010, but it is necessary to estimate the abundance of the only other ungulate, caribou.

There are four different components to the caribou population. Some caribou are resident in the RMA and nearby regions, wandering, but not migratory. Three types of migratory caribou enter the RMA during the winter. Their arrival dates, departure dates, location and abundance are all irregular. Some animals from the Beverly-Qamanirjuaq barren-ground caribou herd move in from the north. Pen Islands caribou, from the Manitoba and Ontario coast of Hudson Bay come in from the east. Caribou from the Cape Churchill area arrive from the northeast.

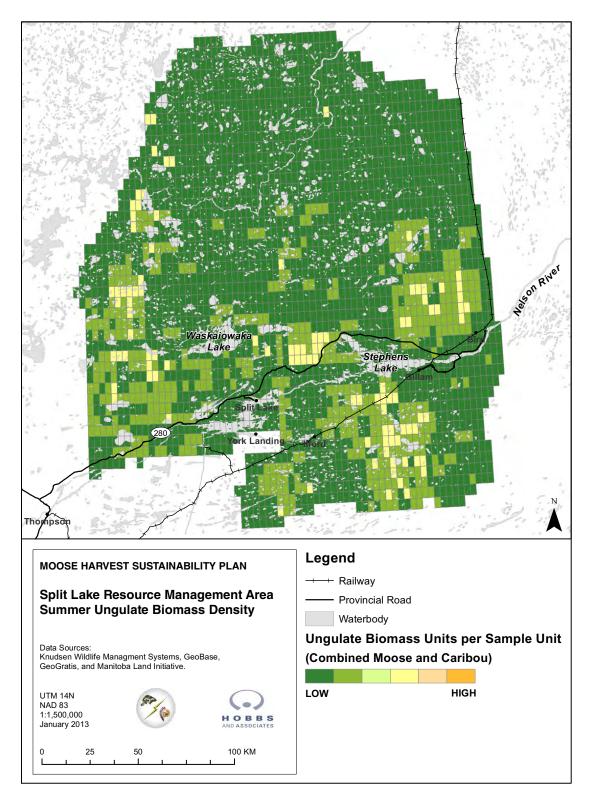
Because of the migratory nature of some the caribou in the RMA, two estimates of ungulate biomass density need to be calculated: summer and winter. The summer ungulate biomass consists of moose and the summer resident caribou. The winter ungulate biomass incorporates the additional biomass of the migratory caribou.

To estimate the winter distribution of caribou, the density of caribou tracks, which was recorded during the 2009 preliminary flights of the aerial moose survey, was used as a guide. The areas with a high density of caribou tracks were classified as high density. Areas with no tracks were classified as low density. Between these two areas, bands of medium density were classified, to reflect the irregular wandering of caribou, which blur the boundaries between density classifications. When the entire RMA was classified, each density class was assigned a density, expressed as number of caribou per 100 km². For the low density areas we used the general density for the Canadian boreal forest (3 caribou per 100 km²) presented by Seip (1991) and Courtois and Oullet (2007). For the high density areas, we had to represent the dramatic immigration of migratory herds. Obviously, this high density changes rapidly as the animals are within the RMA, but some representative number was needed to express this. Ballard *et al.* (1997) reported a 40-fold increase in caribou density in Alaska when barren-ground caribou migrated into territory already occupied by resident moose and wolves. Because a multiplier of that magnitude had been documented, we used it here to generate a density of 120/100 km² for high density areas: 40 times the density of the low areas. Medium density areas were assigned a density of 40/100 km².

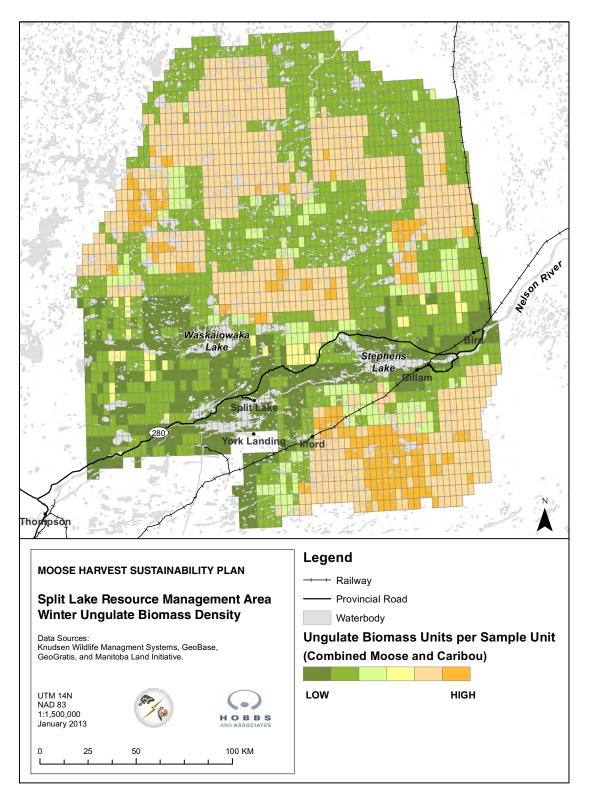
Every sample unit in the RMA now had an assigned density of caribou for summer and winter, which added up to an average summer population of 355 resident woodland caribou in the south-central part of the RMA, and an additional 25,145 migratory caribou, primarily in the northwest and north central

portions. To evaluate the realism of these numbers, the size and movements of the Qamanirjuaq caribou herd was examined. The herd consists of approximately 350,000 animals (Campbell et al. 2010). On the wintering grounds, it is spread over approximately 600 km of forest, from Hudson Bay to northeastern Saskatchewan (Campbell 2005, 2007). Assuming an even distribution of the herd across the wintering grounds, approximately 25% of the herd, or 87,500 would be positioned north of the SLRMA. Movement into the boreal forest and taiga is variable, covering approximately 400 km from southern Nunavut to the Nelson River. Assuming an even north-south distribution, perhaps 25% of these would enter the RMA. In very round numbers, that would be approximately 22,000 caribou. Given the approximate nature of all the quantities used here (the population estimates, the calculation of the proportion of the herd in the RMA, and knowledge of distribution and movements,), this is an adequate fit to our density-based estimate of 15,733 migratory caribou coming from the Qamanirjuaq herd.

To combine moose and caribou into one expression of ungulate biomass, we followed Fuller *et al.* (2003), and converted abundance into ungulate biomass index (UBI) units. The UBI for a species represents its approximate mass, relative to white-tailed deer, which have a UBI of 1. The UBI for caribou is 2, and for moose, 6. For each of the 2,580 sample units in the RMA, the estimated number of caribou in the sample unit was multiplied by 2. The estimated number of moose was multiplied by 6. The two values were summed, to give total ungulate UBI for the sample unit. Migratory caribou were excluded for a summer UBI and included for a winter UBI. These values were then used to create maps of summer and winter ungulate biomass density, with darker shading indicating higher ungulate biomass (Map B-1 and Map B-2).



Map B-1 – Summer Ungulate Biomass



Map B-2 – Winter Ungulate Biomass

The maps of ungulate biomass density were used to generate estimates of wolf populations. This must be done in two steps, because just as there are resident and transient caribou in the RMA, there are resident and transient wolves. When wolves have a non-migratory ungulate prey base, such as moose or deer, they form packs which defend territories against other packs. Transient wolves, which are usually dispersing solitary young animals or older animals (Mech 1970), but which can also be habitually wandering tundra wolves in this case, are frequently killed if they wander into a pack's territory (Fuller et al. 2003, Mech and Boitani 2003). There are usually gaps between territories, which minimize aggressive encounters with other packs, and afford safer locations for lone wolves to occupy. When migratory ungulates, such as caribou, move into the territories of wolf packs for part of the year, the resident wolves usually hunt the temporarily available prey while they are available. When the migratory prey leave, however, the wolves usually do not follow. Ballard et al. (1997) found that when the caribou density increased 40-fold in an area occupied by moose and wolves in Alaska, the wolves shifted from a moose diet to one that was 92%caribou. When the caribou migrated out of the area, the wolves did not follow, but "preyed on the sparse moose population." In the SLRMA, we will assume that the resident wolves will also not follow the migratory caribou, but we will not assume that the resident wolves prey on migratory caribou on more than an opportunistic basis. The reason for this is apparent in the two maps of ungulate biomass. The area flooded by migratory caribou is not an area where resident wolves would have territories. Most of the area occupied by migratory caribou is classified XLO for moose, with a density of approximately 2/100 km². When moose are the only prey, wolves are absent from areas with moose densities below $3/100 \text{ km}^2$ (Messier 1994). Therefore there are no wolves waiting to benefit from the arrival of the Qamanirjuag caribou, and we assume that the resident wolves, organized into packs, prey primarily on the resident moose population, and defend territories in the areas of highest moose density.

Fuller *et al.* (2003) examined 32 studies in which the biomass of prey and the number of wolves could be estimated. They found that the mean UBI per wolf was 271. The 2,600 moose in the SLRMA, taken by themselves, generate a UBI value of 15,600. If this is divided by 271, it gives the number of wolves that could be supported solely by the moose population, which is 58. To estimate mean pack size for resident wolves, we used tabulated mean sizes of early winter and midwinter wolf packs from a number of studies (Fuller *et al.* 2003). Solitary wolves were not included in the means. Twenty of the mean values, based on over 900 packs, were for packs preying on populations of nonmigratory ungulates (either moose or a combination of deer and moose). The median and mean (both unweighted) of these 20 sizes were 5.9 and 6.1, respectively. In 2010, the mean size of 17 packs adjacent to the SLRMA, extending to the west and southwest, was 4.7 (Manitoba Hydro 2011). The latter sample had a disproportionate number of packs of 2 (n=8), suggesting that it incorporated a number of transient wolves, therefore we were guided primarily by the larger sample size of the Fuller *et al.* data, and used a mean pack size of 6 for resident wolves in the SLRMA. Four observations of wolf packs were made during caribou surveys in December 2011 and January 2011 (R. Berger, pers. comm.), in the area between Split Lake, Stephens Lake and Waskaiowaka Lake. The pack sizes were 4 and 8 in December 2011, and 6 and 9 in January 2012.

We rounded the resident wolf population estimate of 58 up to an even multiple of 6, and estimated that there were 10 packs of 6 wolves in the RMA. To estimate the locations of the centres of the 10 pack territories, two sources of data were used. The first source of data was First Nations residents of the area, who were asked to indicate areas that they considered to be regions of high wolf densities. These areas were overlain on the ungulate biomass maps, and points were placed by eye on the underlying pattern. To indicate the approximate area that would be defended by each pack to secure the necessary ungulate

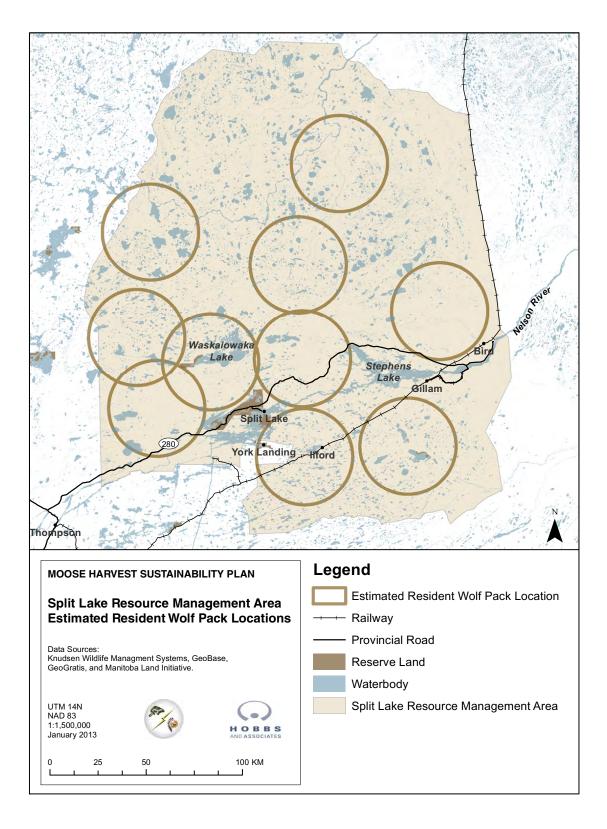
biomass (approximately 1600 UBI units for the pack, or approximately 45 moose per wolf), a 25 km buffer was applied to each centroid. shows the high correspondence between the pack areas reported by First Nations residents and generated by ungulate biomass density. The easternmost circular range is in an area that First Nations hunters reported as being very difficult to travel, so the lack of information about wolves in this area may be a result of less hunting effort being applied there.

Throughout the range of migratory caribou, some wolves follow the herds. In a personal communication (Peterson and Ciucci 2003), D. Thomas reported seeing 50 wolves following a herd across a frozen lake. More commonly, tundra wolves (as they are often called, to distinguish them from wolves staying in the forest, referred to as timber wolves) are in small groups. They follow the migrating herds out on to the barrens in the spring, stopping in appropriate denning locations to have their pups, and then pick up the herds on their way back to the wintering grounds. On the wintering grounds in northern Manitoba, wolf groups tend to be small. Parker (1973) observed approximately 50,000 caribou through the winter in 1968. The number of wolves with the herd varied from 258 to as low as 60, in packs with an average size of 3. During the winter, the mean number of caribou per wolf in this dynamic predator/prey system was approximately 500, or 1000 UBI units. The migratory caribou coming into the SLRMA from the east, the Pen Islands herd, will also have wolves associated with them. Kolenosky and Stanfield (1975), in a discussion of the wolves of Ontario, identify a distinct type of wolf, the "northern Hudson Bay wolf" of the Hudson Bay and James Bay coastal areas that would be the equivalent of the tundra wolf for the caribou migrating from the coastal barrens of Manitoba and Ontario into the boreal forest in the southeastern SLRMA. Using Parker's data, the 25,145 migratory caribou from the Beverly-Qamanirjuaq, Cape Churchill, and Pen Islands herds (constituting 50,290 UBI units) wintering in the SLRMA, should have approximately 50 transient wolves associated with them. To express this transient wolf population in our map of ungulate biomass and wolves, 16 packs of 3 were overlain on the map of winter ungulate biomass density. The locations of these packs will be determined by two factors:

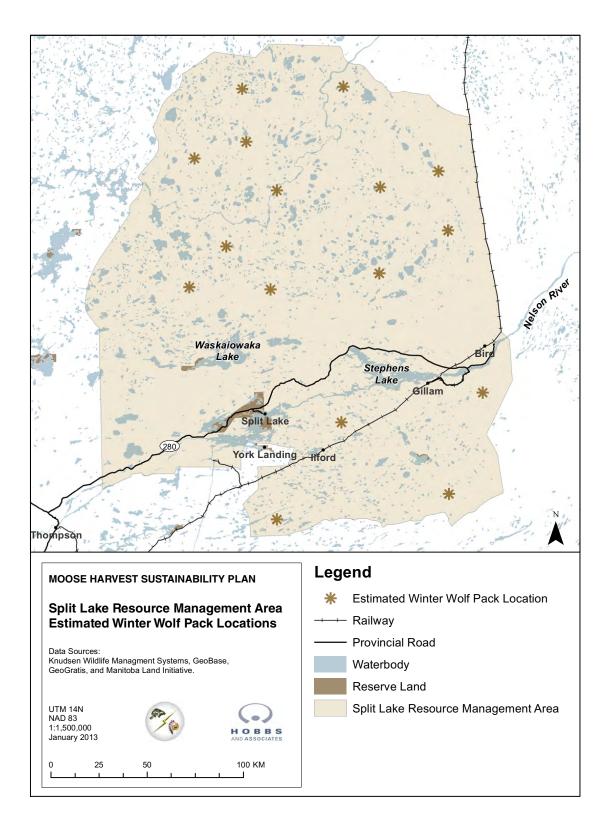
- 1. the winter ungulate biomass density, primarily migratory caribou
- 2. the locations of resident wolf packs.

The locations of the packs were placed by eye, shown as red triangles in Map B-4. These locations, and the locations of the migratory caribou, will move continually throughout each winter. The areas marked by the triangles represent areas where the probability of encountering migratory caribou or transient wolves would be highest.

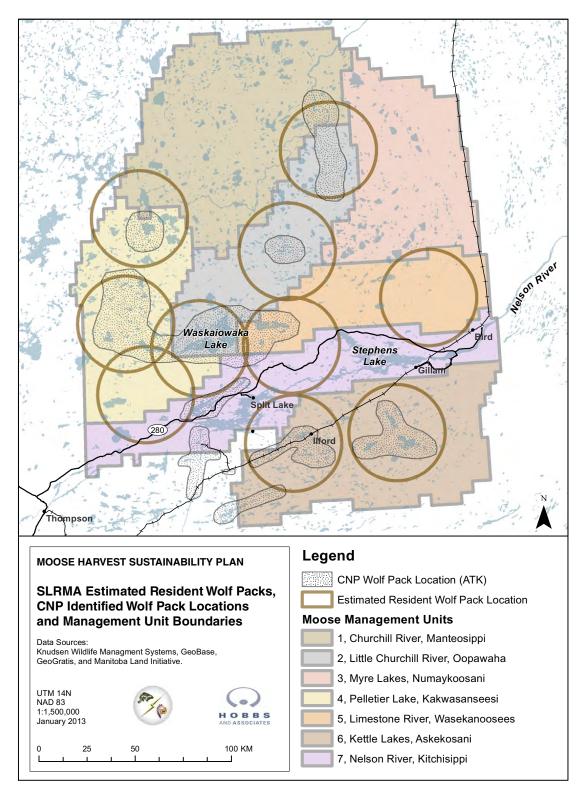
The locations of resident and transient wolf packs can be used to allocate summer and winter wolf predation levels to each moose management unit. If a resident pack's territory fell on a boundary between management units (MapB-5), the pack was assigned partly to one unit and partly to the other (Table B-5).



Map B-3 – Resident Wolf Pack Locations



Map B-4 – Winter Wolf Pack Locations



Map B-5 – Wolf Packs and Management Unit Boundaries

Management Unit Number	Management Unit Name	Resident Packs	Transient Packs
1	Manteosippi	0.7	6.0
2	Oopawaha	2.0	1.0
3	Numaykoosani	0.2	4.0
4	Kakwasanseesi	2.7	1.0
5	Wasekanoosees	1.4	0.0
6	Askekosani	1.8	4.0
7	Kitchesippi	1.2	0.0
Total		10.0	16.0

Table B-5:	Distribution of wolf	packs among management units

Messier (1994) tabulated the kill rates of wolves on moose from 14 studies. He found that for most of the range of moose densities, the kill rate could be predicted by moose density. Below a moose density of 30/100 km², however, the kill rate was extremely variable. Moose densities in the SLRMA are below that density for 95% of the area. Three kill rates were taken from studies whose moose densities were approximately the same as the areas occupied by resident wolf packs. Their average value was approximately 3 moose per winter per wolf, or 18 moose per winter per pack, taking a winter as being 200 days long. This kill rate was applied to the resident wolves in each moose management unit, and was adjusted for the estimated percentage of the ungulate biomass that wolves would acquire from moose in the winter in each unit. By multiplying the number of wolves by the kill rate and by the percentage of biomass acquired from moose, the estimated winter kill from resident wolves was calculated. The same procedure was followed for transient wolves, and the two values were summed to derive the total winter kill of moose by wolves in each management unit (Table B-6).

Management Unit	Kill By Resident Wolves Per Winter	Kill By Transient Wolves Per Winter	Total Winter Moose Kill By Wolves
Manteosippi	11	22	33
Oopawaha	29	2	31
Numaykoosani	2	14	17
Kakwasanseesi	46	5	51
Wasekanoosees	24	0	24
Askekosani	28	14	42
Kitchisippi	19	0	19
Total	159	57	216

 Table B-6:
 Moose mortality due to wolf predation in moose management units

B-3.3 Winter Weather Mortality

Winter weather in this model is mortality specifically caused by severe cold weather and/or deep snow. It does not include additional mortality from wolves as a result of deep or crusted snow. Because moose have behavioural, physiological and anatomical adaptations to living in the boreal forest in the winter, winter weather is not usually a major mortality factor for moose, but because the SLRMA is on the fringe of moose range, a small annual mortality is accounted for in the model. All the moose management units have a 2% annual winter weather mortality. Peterson (1977) identified calves as vulnerable to winter weather if they are already stressed at the beginning of winter. Coady (1982) reviewed the susceptibility of age and sex groups to winter weather, and found that in addition to calves, older adults and males stressed by the rut were vulnerable. Because of the identified vulnerability of bulls, cows and calves in certain circumstances, winter mortality is not weighted toward any group or groups.

B-3.4 Reproduction

In the model's annual cycle, reproduction is expressed as the number of calves born per 100 cows. In the Split Lake RMA, very few moose cows exceed the age of 5 years, so in the following calculations, females in the population will be assumed to be 5 years old and younger. Female calves do not become pregnant. The pregnancy rate for yearling cows is 35%, and none of these yearling pregnancies produce twins (Crichton 1992). The pregnancy rate for cows from 2 to 5 years old is 88%, and 21% of these pregnancies produce twins (Crichton 1992). (Twinning rates can vary locally depending on the quality of forage available to pregnant cows.) If the maximum expected age of a moose cow is 5, the number of yearlings in a stable age distribution of cows will be approximately 30% of the total number of cows. From these figures, it follows that for every 100 cows, 30 will be yearlings, who will produce 10 calves. Of the remaining 70 cows, 88% (62) will become pregnant each year. Of these 62 pregnancies, 21% (13) will produce twins (26 calves) and the remaining 49 cows will produce 49 calves, making a total of 85 calves born for every 100 cows. This figure was used for all moose management units in the RMA.

B-3.5 Postnatal Mortality

The weeks immediately after birth are time of high mortality for calves. In some areas, mortality is extreme because of high densities of predators. In Alaska, the combination of wolves and grizzly bears can increase calf mortality in the first 8 weeks of life to 83% (e.g. Osborne *et al.* 1991, Gasaway *et al.* 1992). More common mortality rates when bear and wolf predation is high are 50%. In Manitoba, survival rates for calves are expected to be higher, particularly in areas where neither wolves nor black bears are particularly abundant, as in the SLRMA. In this model, the mortality rate of calves from birth to late summer is assumed to be 30%, and is applied at this level to all management units.

B-3.6 First Nations Harvest

First Nations residents of the SLRMA area provided estimates of the moose taken for domestic harvest, both through the Access Program and other hunting, along with the locations where moose were taken. These data were used to allocate the harvest among the moose management units (Table B-7, Figure B-2). These figures are useful to allocate the domestic harvest, but not all data were gathered according to a formal reporting scheme. There might also be a bias in the allocation of the harvest if hunters from one unit were more likely to report their harvest than hunters from other units. This may be the case with the Oopawaha unit.

These data are used here as a starting point, but as the management of the SLRMA moose herd proceeds, it will be essential to have a formal reporting scheme to monitor the domestic harvest, as well as other harvests.

Management Unit	Total Population	Percent Of Herd	Domestic Harvest	Percent Of Domestic Harvest
Manteosippi	410	16	5	6
Oopawaha	235	9	24	30
Numaykoosani	190	7	1	1
Kakwasanseesi	502	19	10	12
Wasekanoosees	369	14	4	5
Askekosani	557	21	13	16
Kitchesippi	337	13	24	30
Total	2,600		81	

 Table B-7:
 Quantity of domestic harvest and moose abundance in each management unit

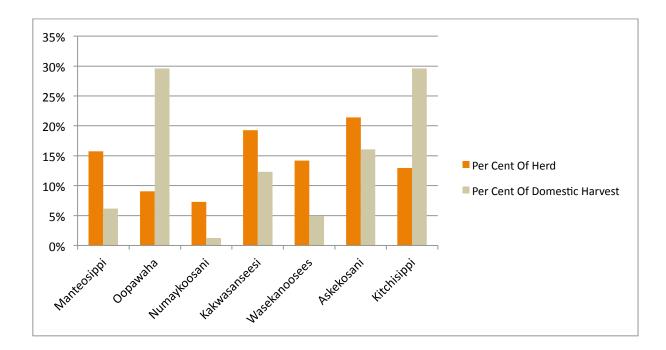


Figure B-2: The distribution of domestic harvest among moose management units, along with the equivalent distribution of moose

B-3.7 Resident and Non-resident Licensed Harvest and Wounding Loss

Data from Manitoba Conservation and Water Stewardship big game hunter questionnaires and outfitter reports were used to estimate the harvest by licensed hunters in the RMA. These data were combined with the First Nations domestic harvest, and used to calculate an overall wounding loss from hunting, which was estimated to be 15% of the number of retrieved moose (Table B-8).

The licensed harvest data would also be improved by having a formal reporting scheme that conforms to the newly proposed moose management units in the SLRMA. Manitoba Conservation and Water Stewardship does not gather data more precisely than by Game Hunting Area (GHA). The licensed resident harvest in the SLRMA was estimated by Knudsen *et al.* (2011) to be 35, based on the mean harvest by GHA from 1993 to 2007, the overlap of GHAs with the SLRMA, and a subjective evaluation of the degree of access in the RMA. The same logic was applied to dividing that harvest among moose management units (Table B-8). Even without a formal reporting scheme, these estimates of licensed resident harvest in each management unit could benefit from comments by resident First Nations individuals.

The licensed non-resident harvest was based on the allocation of licences for the area and the mean success rate in recent years (approximately 70%). This harvest can be specified in more detail, because the Outfitter Declaration Forms, required by Manitoba Conservation, link each non-resident hunter to an allocation area, and report each hunter's success.

The numbers presented here for non-residents have been discussed with CNP, particularly for the Oopawaha management unit. It was felt that the non-resident licensed harvest data should be scrutinized

and refined. Regardless of the precision of these data, future management will require the acquisition and tabulation of non-resident hunting data.

Management Unit	Domestic Harvest	Licensed Resident Harvest	Licensed Non- resident Harvest	Total Retrieved Kill	Wounding Losses	Total Hunting Mortality
Manteosippi	5	2	5	12	2	14
Oopawaha	24	4	10	38	6	44
Numaykoosani	1	2	5	8	1	9
Kakwasanseesi	10	9	5	24	4	28
Wasekanoosees	4	3	5	12	2	14
Askekosani	13	6	10	29	4	33
Kitchesippi	24	9	0	33	5	38
Total	81	35	40	156	23	179

 Table B-8:
 Current estimates of hunting mortality of moose in the Split Lake Resource Management

 Area

B-3.8 Fall Wolf Predation

As stated earlier, wolf predation, aside from summer predation on newborn calves, was divided equally between winter and fall. This is the fall half.

B-3.9 Black Box Mortality

Every moose population suffers mortality from a range of minor sources. These include parasites, collisions with vehicles, falling through ice and becoming mired in mud. Even in the most favourable circumstances it is extremely difficult to quantify mortality from these sources, but some data are available to assist in generating estimates. Child (1998) examined the magnitude of incidental mortality. He found that in North America known collisions with vehicles and trains was usually less than 10% of the allowable harvest from a herd. In Ontario, it was 3.5%. (The magnitude of the unknown collisions is obviously unknown.) If the allowable harvest from the SLRMA is considered approximately 200 (using very round numbers), an annual loss to collisions of 10% of the harvest would be approximately 20, or slightly less than 1% of the January population. However, the railway line passing through the RMA is not equivalent to main line railways in the more developed parts of North America. In the SLRMA, trains are infrequent and therefore moose mortality is expected to be much lower.

Lankester and Samuel (1998) did not attempt to quantify mortality to parasites and disease. They commented that many animals suffering from these factors would not actually die from them, but would be taken by predators when they began to be weakened. Much of this mortality is therefore accounted for as wolf predation.

To account for these miscellaneous sources of mortality, the model applies a 3% annual black box mortality to all management units except Kitchisippi. Kitchisippi, which contains PR 280, has a black box mortality rate of 6%.

B-4 Combined Hunting and Wolf Mortality

Hunting and predation have such a large impact on moose populations that it is useful to be aware of the combined effect of both. Table B-9 and Figure B-3 show these estimates.

Management Unit	Total Hunting Mortality	Losses To Wolves	Hunting + Wolves
Manteosippi	14	33	47
Oopawaha	44	31	75
Numaykoosani	9	17	26
Kakwasanseesi	28	51	79
Wasekanoosees	14	24	38
Askekosani	33	42	75
Kitchesippi	38	19	57
Total	180	217	397

 Table B-9:
 Moose mortality due to hunting and wolf predation

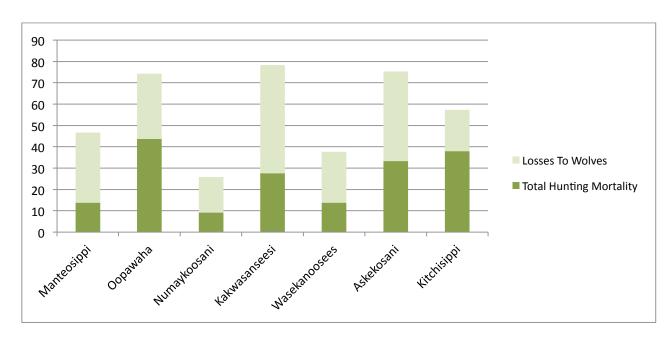


Figure B-3: Losses to wolves and hunting

Appendix C Management Unit Projections

The following sections show how all the input data for each moose management unit are combined to create specific projections for the unit. Two projections are presented for each unit. One projection shows the track of the population if current conditions continue unchanged, starting in 2010. The second shows the track of the population if the harvest by hunters is changed to maintain a stable population, approximately at the levels of the 2010 population estimates. When a population shows a potential for increased harvest, that increase is always shown as an increase to the First Nations domestic harvest.

In examining these projections, it is important to remember that the input data were derived from a wide range of sources, many of which were the best available approximations. The projections are definitely not presented as a statement of fact, or the final word on each population. Just the reverse: the projections are a framework for our knowledge of the moose population, prompting people to examine specific details, with an eye to correcting data when possible, and identifying the need for further data acquisition when good data are not at hand. Comments need not be highly quantitative. If a trapper reports that he has indeed seen many small packs of wolves on his trapline in February, that might provide valuable confirmation of the assumption of transient wolves is incorrect. The key point is to move from general statements to specific ones, and then use those specific pieces of information, gradually building a more detailed and accurate picture of the overall system.

With respect to the allowable harvest by all hunters, the projected total sustainable harvest is probably a good management guideline, but it can only be implemented if there is a formal recording of all moose taken by all hunters, licensed and First Nations.

For each projection, the inputs and results are presented as they are generated in the spreadsheet model. The weightings of mortality factors are shown only once, for the first Manteosippi projection, because these inputs did not change for any of the projections.

All projections rely heavily on the 70% weighting of the hunting harvest toward bulls. Every simulation shows that if bulls are selectively harvested the proportion of cows in the population increases, generating an ever-growing sustainable harvest of bulls. This is an essential part of the plan, and provides a quantitative demonstration of a key element of the 1994 Moose Conservation Plan: the harvest must be bulls.

C-1 Unit 1: Manteosippi

C-1.1 Current Status

The Manteosippi unit appears to be slightly underutilized by hunters due to the difficulty of access and distance from local communities. The current domestic harvest of 5 could be increased to 30 if bulls constitute 70% of the harvest. The question of access is very important for this unit, given its remote nature. Realizing a larger harvest could present considerable logistic difficulties.

This unit is the only one in which a portion of moose surveys had to be abandoned because of the high density of caribou tracks. If those caribou bring more wolves with them than we currently estimate, and if those wolves are adaptable enough to take moose at will, the Manteosippi herd could be subject to

ΙΝΡΟΙ			
Start Year	2010		
Bulls (Start)	194		
Cows (Start)	156		
Calves (Start)	60		
Total (Start)	410		
Total Wolf Predation	33 moose		
Winter Kill	2 %		
Calves Born/100 Cows	85		
Postnatal Mortality	30 %		
First Nations Harvest	5 moose		
Resident Licensed Kill	2 moose		
Nonresident Licensed Kill	5 moose		
Wounding Mortality	15 %		
Black Box Mortality	3 %		

considerably more wolf predation than is used as an input here. It would be wise to acquire more detailed
First Nations local knowledge for the Manteosippi unit, if possible.

	RESULTS			
1000				
750 -				
500 -		-		
250 -				
0 -				
	2010 2011 1	on an 2013 a	1 ⁴ 2015	
	January	Population		
	Year	Moose		
	2010	410		
	2011	431		
	2012	457		
	2013	492		
	2014	537		
	2015	595		

Figure C-1: Manteosippi: current status and growth under a harvest regime emphasizing bulls

	Year	% Bulls	% Cows	% Calves
Per Cent Cows	2010	47%	38%	15%
60% _	2011	43%	39%	18%
40% -	2012	41%	41%	19%
20% -	2013	39%	42%	19%
0%	2014	37%	43%	20%
2010 2011 2012 2013 2014 2015	2015	36%	44%	20%
	Weight	Bulls	Cows	Calves
Total Wolf Predation	yes	40	20	40
Winter Kill	no			
Postnatal Mortality	yes	0	0	100
First Nations Harvest	yes	70	20	10
Resident Licensed Hunting	yes	100	0	0
Nonresident Licensed Hunting	yes	100	0	0
1			5	5
Wounding Mortality	yes	90	5	5

Figure C-2: Manteosippi: herd structure changes and weighting of mortality for simulations in all management units

C-1.2 Sustainable Harvest

INPUT				
Start Year	2010			
Bulls (Start)	194			
Cows (Start)	156			
Calves (Start)	60			
Total (Start)	410			
Total Wolf Predation	33 moose			
Winter Kill	2 %			
Calves Born/100 Cows	85			
Postnatal Mortality	30 %			
First Nations Harvest	30 moose			
Resident Licensed Kill	2 moose			
Nonresident Licensed Kill	5 moose			
Wounding Mortality	15 %			
Black Box Mortality	3 %			

	RESULTS			
1000				
750 -				
500 -		-		
250 -				
0 -		1 1		
	2010 2011 1	on no 2013 20	1 ⁴ 2015	
	January	Population		
	Year	Moose		
	2010	410		
	2011	403		
	2012	400		
	2013	404		
	2014	415		
	2015	435		

Figure C-3: Manteosippi: sustainable harvest

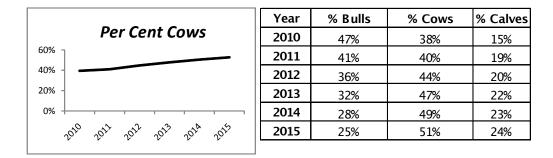


Figure C-4: Manteosippi: population structure under sustainable harvest

C-2 Unit 2: Oopawaha

C-2.1 Current Status

The Oopawaha unit requires considerable scrutiny and comment. The simulation suggests that if current harvest levels are maintained, a serious decline would occur. The results after 3 years become meaningless, because the bull component of the herd has gone to zero.

In preliminary discussions, the non-resident licensed harvest of 10 was questioned, but that kill, being 100% bulls, would have little impact on the trajectory of the population.

This might be a unit that has net immigration. If moose move into Oopawaha from Manteosippi or Kakwasanseesi, perhaps in response to the higher density of wolf packs on the west side of the SLRMA, the sustainable harvest in Oopawaha could be larger than is indicated here.

INPUT				
Start Year	2010			
Bulls (Start)	112			
Cows (Start)	86			
Calves (Start)	37			
Total (Start)	235			
Total Wolf Predation	31 moose			
Winter Kill	2 %			
Calves Born/100 Cows	85			
Postnatal Mortality	30 %			
First Nations Harvest	24 moose			
Resident Licensed Kill	4 moose			
Nonresident Licensed Kill	10 moose			
Wounding Mortality	15 %			
Black Box Mortality	3 %			

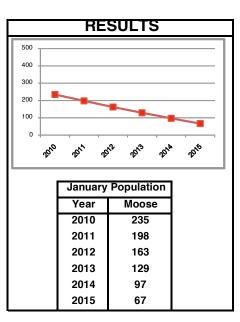


Figure C-5: Oopawaha: current status and growth under a harvest regime emphasizing bulls

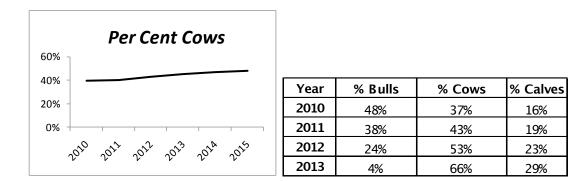


Figure C-6: Oopawaha: herd structure changes and weighting of mortality for simulations in all management units

C-2.2 Sustainable Harvest

INPUT					
Start Year	2010				
Bulls (Start)	112				
Cows (Start)	86				
Calves (Start)	37				
Total (Start)	235				
Total Wolf Predation	31 moose				
Winter Kill	2 %				
Calves Born/100 Cows	85				
Postnatal Mortality	30 %				
First Nations Harvest	8 moose				
Resident Licensed Kill	0 moose				
Nonresident Licensed Kill	0 moose				
Wounding Mortality	15 %				
Black Box Mortality	3 %				

RESULTS				
500				
400				
300				
200 -				
100				
0 —				
2010	2011 20	1 ² 201 ³ 201 ⁴	· 2015	
	-	Population		
	Year	Moose		
	2010	235		
	2011	232		
	2012	230		
	2013	231		
	2014	234		
	2015	240		

Figure C-7: Oopawaha: sustainable harvest

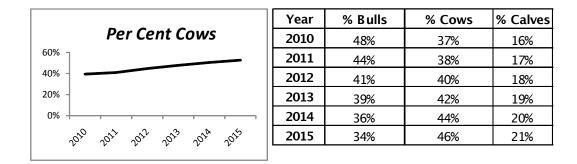


Figure C-8: Oopawaha: population structure under sustainable harvest

C-3 Unit 3: Numaykoosani

Numaykoosani is another unit that seems to be underutilized by First Nations domestic harvest. The current reported harvest estimate is only 1. The population shows a capability of 12 moose for domestic harvest.

C-3.1 Current Status

•

INPUT			RE	SULTS	
Start Year	2010	500			
Bulls (Start)	77	300			
Cows (Start)	78	200			
Calves (Start)	35	100			
Total (Start)	190	0	- 10 ¹ - 10	1 ²² 2013 2014	* 2015
Total Wolf Predation	17 moose				
Winter Kill	2 %		January	Population	
Calves Born/100 Cows	85		Year	Moose	
Postnatal Mortality	30 %		2010	190	
First Nations Harvest	1 moose		2011	199	
Resident Licensed Kill	2 moose		2012	211	
Nonresident Licensed Kill	5 moose		2013	228	
Wounding Mortality	15 %		2014	251	
Black Box Mortality	3 %		2015	280	

Figure C-9: Numaykoosani: current status and growth under a harvest regime emphasizing bulls

	Year	% Bulls	% Cows	% Calves
Per Cent Cows	2010	41%	41%	18%
60% -	2011	37%	43%	20%
40% -	2012	34%	45%	21%
20% -	2013	32%	47%	22%
0%	2014	30%	48%	22%
2010 2011 2012 2013 2014 2015	2015	29%	48%	23%
		-		-

Figure C-10: Numaykoosani: herd structure changes and weighting of mortality for simulations in all management units

C-3.2 Sustainable Harvest

INPUT				
Start Year	2010			
Bulls (Start)	77			
Cows (Start)	78			
Calves (Start)	35			
Total (Start)	190			
Total Wolf Predation	17 moose			
Winter Kill	2 %			
Calves Born/100 Cows	85			
Postnatal Mortality	30 %			
First Nations Harvest	12 moose			
Resident Licensed Kill	2 moose			
Nonresident Licensed Kill	5 moose			
Wounding Mortality	15 %			
Black Box Mortality	3 %			

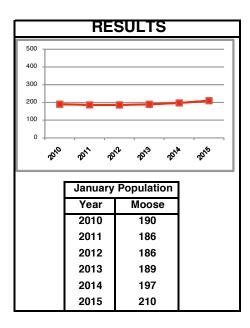


Figure C-11: Numaykoosani: sustainable harvest

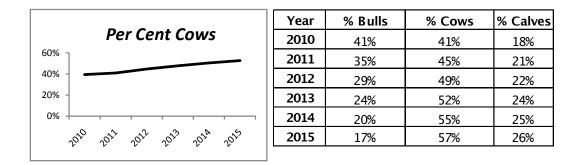


Figure C-12: Numaykoosani: population structure under sustainable harvest

C-4 Unit 4: Kakwasanseesi

The Kakwasanseesi unit should be able to maintain a domestic harvest of 25 moose. The current report of domestic harvest is only 10. This evaluation has to be qualified by two points. The density of wolf packs in Kakwasanseei is high. If there is a shortage of refuge areas for moose, such as large gaps between territories, the kill rate per wolf could be higher in this unit. In addition, as discussed regarding Oopawaha, if there is heavy predation pressure, there could be a net emigration out of Kakwasanseesi into Oopawaha.

C-4.1 Current Status

INPUT		RESULTS
Start Year	2010	750
Bulls (Start)	243	500
Cows (Start)	196	250
Calves (Start)	63	
Total (Start)	502	
		20° 20' 20' 20' 20' 20'
Total Wolf Predation	51 moose	
Winter Kill	2 %	January Population
Calves Born/100 Cows	85	Year Moose
Postnatal Mortality	30 %	2010 502
First Nations Harvest	10 moose	2011 509
Resident Licensed Kill	9 moose	2012 518
Nonresident Licensed Kill	5 moose	2013 538
Wounding Mortality	15 %	2014 568
Black Box Mortality	3 %	2015 609

Figure C-13: Kakwasaneesi: current status and growth under a harvest regime emphasizing bulls

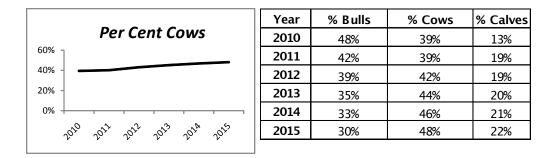


Figure C-14: Kakwasaneesi: herd structure changes and weighting of mortality for simulations in all management units

C-4.2 Sustainable Harvest

INPUT				
Start Year	2010			
Bulls (Start)	243			
Cows (Start)	196			
Calves (Start)	63			
Total (Start)	502			
Total Wolf Predation	51 moose			
Winter Kill	2 %			
Calves Born/100 Cows	85			
Postnatal Mortality	30 %			
First Nations Harvest	25 moose			
Resident Licensed Kill	9 moose			
Nonresident Licensed Kill	5 moose			
Wounding Mortality	15 %			
Black Box Mortality	3 %			

RESULTS				
1000 -				
750 -				
500 -				
250 -				
0 -				
	2010	2011 1	on 2013 1	on ^a 2015
		January	Population	1
		Year	Moose	
		2010	502	
		2011	493	
		2012	484	
		2013	485	
		2014	494	
		2015	514	

Figure C-15: Kakwasaneesi: sustainable harvest

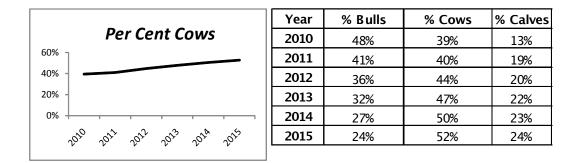


Figure C-16: Kakwasaneesi: population structure under sustainable harvest

C-5 Unit 5: Wasekanoosees

The Wasekanoosees unit is another unit that suggests a larger domestic harvest could be taken: 30 instead of 4. However, the current estimate of 4 moose could be a serious underestimate, if hunters from other First Nations communities are taking a substantial number of moose from Wasekanoosees. Gathering those data could be a challenge, but without them, it will be difficult to manage the harvest by First Nations hunters who are resident in the SLRMA.

C-5.1 Current Status

INPUT		RESULTS			
Start Year	2010	1000 750			
Bulls (Start)	176	500 -			
Cows (Start)	147	250 -			
Calves (Start)	46				
Total (Start)	369	÷ ۵	10 1001 1	2 ¹² 22 ¹³ 22	A 2915
Total Wolf Predation	24 moose				
Winter Kill	2 %		January	Population	
Calves Born/100 Cows	85		Year	Moose	
Postnatal Mortality	30 %		2010	369	
First Nations Harvest	4 moose		2011	396	
Resident Licensed Kill	3 moose		2012	426	
Nonresident Licensed Kill	5 moose		2013	466	
Wounding Mortality	15 %		2014	516	
Black Box Mortality	3 %		2015	579	

Figure C-17: Wasekanoosees: current status and growth under a harvest regime emphasizing bulls

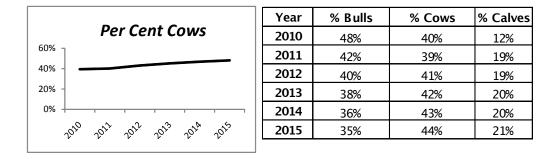


Figure C-18: Wasekanoosees: herd structure changes and weighting of mortality for simulations in all management units

C-5.2 Sustainable Harvest

INPUT				
Start Year	2010			
Bulls (Start)	176			
Cows (Start)	147			
Calves (Start)	46			
Total (Start)	369			
Total Wolf Predation	24 moose			
Winter Kill	2 %			
Calves Born/100 Cows	85			
Postnatal Mortality	30 %			
First Nations Harvest	30 moose			
Resident Licensed Kill	3 moose			
Nonresident Licensed Kill	5 moose			
Wounding Mortality	15 %			
Black Box Mortality	3 %			

	RESULTS				
1000					
750					
500 -					
250					
o 🖵					
ŕ	th righ an	2 ⁷² 2 ⁵⁷³ 25	A 2015		
	January	Population			
	Year	Moose			
	2010	369			
	2011	367			
	2012	366			
	2013	374			
	2014	389			
	2015	414			

Figure C-19: Wasekanoosees: sustainable harvest

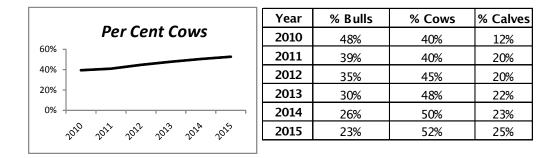


Figure C-20: Wasekanoosees: population structure under sustainable harvest

C-6 Unit 6: Askekosani

The Askekosani unit is another unit in which the actual annual harvest by all hunters must be monitored and recorded. Currently, the estimated annual harvests are 13 for First Nations hunters and 6 for resident licensed hunters. The proximity of this unit to Gillam, and the relatively large number of moose suggests that these harvest figures should be scrutinized.

C-6.1 Current Status

INPUT			RE	SULTS	
Start Year	2010	1000 750			
Bulls (Start)	254	500			
Cows (Start)	229	250			
Calves (Start)	74	0			
Total (Start)	557	201	· 201 1	en an a	1ª 2015
Total Wolf Predation	42 moose				
Winter Kill	2 %		January	Population	
Calves Born/100 Cows	85		Year	Moose	
Postnatal Mortality	30 %		2010	557	
First Nations Harvest	13 moose		2011	584	
Resident Licensed Kill	6 moose		2012	615	
Nonresident Licensed Kill	10 moose		2013	661	
Wounding Mortality	15 %		2014	721	
Black Box Mortality	3 %		2015	800	

Figure C-21: Askekosani: current status and growth under a harvest regime emphasizing bulls

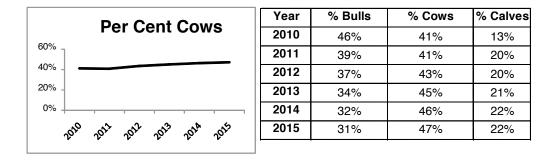


Figure C-22: Askekosani: herd structure changes and weighting of mortality for simulations in all management units

C-6.2 Sustainable Harvest

INPUT	
Start Year	2010
Bulls (Start)	254
Cows (Start)	229
Calves (Start)	74
Total (Start)	557
Total Wolf Predation	42 moose
Winter Kill	2 %
Calves Born/100 Cows	85
Postnatal Mortality	30 %
First Nations Harvest	45 moose
Resident Licensed Kill	6 moose
Nonresident Licensed Kill	10 moose
Wounding Mortality	15 %
Black Box Mortality	3 %

	RE	SULTS	
1000			
750 -			
500 -	B B		
250 -			
0 -			
	2010 2011 1	on na 2013 20	1 ⁴ 2015
	January	Population	
	Year	Moose	
	2010	557	
	2011	548	
	2012	541	
	2013	547	
	2014	565	
	2015	596	

Figure C-23: Askekosani: sustainable harvest

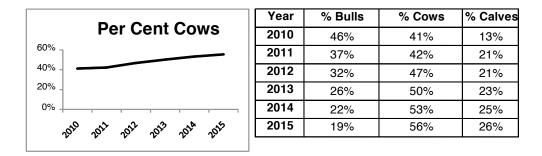


Figure C-24: Askekosani: herd structure changes and weighting of mortality for simulations in all management units

C-7 Unit 7: Kitchisippi

The Kitchisippi unit appears to be harvested at its maximum sustainable level now. This is predicated, however, on the harvest consisting primarily of bulls. If the proportion of cows in the population were to stay as it was in 2010 (41%), which generates a bull:cow ratio of 112:100, the population would be expected to decline if current harvest rates continue.

C-7.1 Current Status

INPUT]		RE	RESULTS		
Start Year	2010		500 400				
Bulls (Start)	154		300 200				
Cows (Start)	133						
Calves (Start)	50		100				
Total (Start)	337		0		0. 0. 1		
			201	° 2° 7	5° 20° 201	A 2015	
Total Wolf Predation	19 moose						
Winter Kill	2 %			January	Population		
Calves Born/100 Cows	85			Year	Moose	1	
Postnatal Mortality	30 %			2010	337	1	
First Nations Harvest	24 moose			2011	329		
Resident Licensed Kill	9 moose			2012	323		
Nonresident Licensed Kill	0 moose			2013	323		
Wounding Mortality	15 %			2014	328		
Black Box Mortality	6 %			2015	338		

Figure C-25: Kitchisippi: current status and growth under a harvest regime emphasizing bulls



Figure C-26: Kitchisippi: herd structure changes and weighting of mortality for simulations in all management units

C-7.2 Sustainable Harvest

INPUT	
Start Year	2010
Bulls (Start)	154
Cows (Start)	133
Calves (Start)	50
Total (Start)	337
Total Wolf Predation	19 moose
Winter Kill	2 %
Calves Born/100 Cows	85
Postnatal Mortality	30 %
First Nations Harvest	24 moose
Resident Licensed Kill	9 moose
Nonresident Licensed Kill	0 moose
Wounding Mortality	15 %
Black Box Mortality	6 %

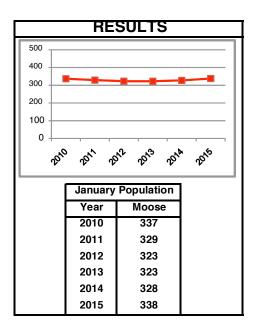


Figure C-27: Kitchisippi: sustainable harvest

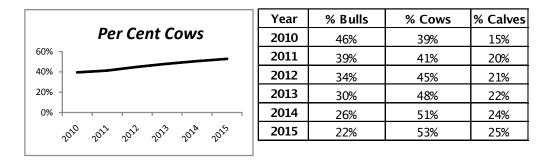


Figure C-28: Kitchisippi: herd structure changes and weighting of mortality for simulations in all management units

Appendix D Model Printouts: Sustainable Harvest

The following pages show the detailed results of simulations. The status of the population can be checked at any stage in the year.

D-1 Unit 1: Manteosipi

INPUT		
Start Year	2010	
Bulls (Start)	194	
Cows (Start)	156	
Calves (Start)	60	
Total (Start)	41 0	
Total Wolf Predation	33	moose
Winter Kill	2	%
Calves Born/100 Cows	85	
Postnatal Mortality	30	%
First Nations Harvest	30	moose
Resident Licensed Kill	2	moose
Nonresident Licensed Kill	5	moose
Wounding Mortality	15	%
Black Box Mortality	3	%

		RE	SULTS	
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	250 —			
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	า่	joho 2011 1	or ros 20	1 ^A 2015
ose		January	Population	
		Year	Moose	
		2010	410	
ose		2011	403	
ose		2012	400	
ose		2013	404	
		2014	415	
		2015	435	

Der Cent Cours	Year	% Bulls	% Cows	% Calves
Per Cent Cows	2010	47%	38%	15%
60%	2011	41%	40%	19%
40% _	2012	36%	44%	20%
20% _	2013	32%	47%	22%
0%	2014	28%	49%	23%
2010 2011 2012 2013 2014 2015	2015	25%	51%	24%
	Weight	Bulls	Cows	Calves
Total Wolf Predation	yes	40	20	40
Winter Kill	no			
Postnatal Mortality	yes	0	0	100
First Nations Harvest	yes	70	20	10
Resident Licensed Hunting	yes	100	0	0
Nonresident Licensed Hunting	yes	100	0	0
Wounding Mortality	yes	90	5	5
n oanang monany				

			AMOUNT	-									% MORTALITY								
YEAR	молтнѕ	FACTOR	OF	APPLIED	BULLS	cows	CALVES	POPULATION	UNEVEN	% BULLS	% cows	% CALVES	AS NUMBER OF	BULLS	cows	CALVES	POPULATION	POPULATION	% BULLS	% cows	% CALVES
			CHANGE	AS	BEFORE	BEFORE	BEFORE	BEFORE	MORTALITY?	/	/		MOOSE	AFTER	AFTER	AFTER	AFTER	CHANGE	/~~~~~		// 0/
2010	Jan	Population At Simulation Start			194	156	60	410											47%	38%	15%
2010	Jan-Mar	Wolf Predation (Winter)	16.5	5 moose	194	156	60	410	yes	40	20	40		187	153	53	394	-17			
2010	Mar	Winter Kill	2	2 per cent	187	153	53	394	no				8	184	150	52	386	-8			
2010	Jun	Reproduction			184	150		386						210	176	127	513	127			
2010	Jul-Aug	Postnatal Mortality) per cent	210	176		513	1	0	0	100	38	210	176			-38			
2010	Sep	First Nations Harvest	30) moose	210	176		475	/	70	20	10		189	170	86		-30			
2010	Sep	Resident Licensed Hunting	2	2 moose	189	170		445		100	0	0		187	170	86		-2			
2010	Sep	Nonresident Licensed Hunting	5	moose	187	170		443		100	0	0		182	170	86		-5			
2010	Sep	Wounding Mortality	15	5 per cent	182	170		438	yes	90	5	5	6	177	170	86		-6			
2010		Wolf Predation (Fall)	16.5	5 moose	177	170		432	,	40	20	40		170	166	79		-16			
2010	All Year	Black Box Mortality	3	B per cent	170	166		416					12	165	161	77	403	-12			
2011	Jan	Population At Year Start			165	161		403											41%	40%	19%
2011		Wolf Predation (Winter)	16.5	5 moose	165	161		403		40	20	40		159	158	70		-17			
2011	Mar	Winter Kill	2	per cent	159	158		387					8	155	155	69		-8			
2011		Reproduction			155	155		379						190	189	132		132			
2011	0	Postnatal Mortality) per cent	190	189		510	1	0	0	100	39	190	189	92		-39			I
2011	Sep	First Nations Harvest	30) moose	190	189		471	1	70	20	10		169	183	89		-30			I
2011	Sep	Resident Licensed Hunting	2	2 moose	169	183		441	1	100	0	0		167	183	89		-2			
2011		Nonresident Licensed Hunting		5 moose	167	183		439	1	100	0	0		162	183	89		-5			
2011	Sep	Wounding Mortality		5 per cent	162	183		434		90	5	5	6	157	183	89		-6			I
2011		Wolf Predation (Fall)	16.5	5 moose	157	183		428	-	40	20	40		150	180	82		-17			
2011		Black Box Mortality	3	B per cent	150	180		412					12	146	174	80	400	-12			
2012	Jan	Population At Year Start			146	174		400											36%	44%	20%
2012		Wolf Predation (Winter)	16.5	5 moose	146	174		400	1	40	20	40		139	171	73		-16			
2012	Mar	Winter Kill	2	per cent	139	171		383					8	136	167	72		-8			
2012	Jun	Reproduction			136	167		375						172	203	142		142			
2012	0	Postnatal Mortality) per cent	172	203		518		0	0	100	43	172	203	100		-43			
2012	Sep	First Nations Harvest) moose	172	203		475	7	70	20	10		151	197	97	-	-30			
2012		Resident Licensed Hunting		2 moose	151	197		445		100	0	0		149	197	97	-	-2			
2012	Sep	Nonresident Licensed Hunting	-	moose	149	197		443	1	100	0	0		144	197	97		-5			
2012	Sep	Wounding Mortality		5 per cent	144	197		438		90	5	5	6	139	197	96		-6			
2012		Wolf Predation (Fall)		5 moose	139	197		433	,	40	20	40		133	194	90	-	-16			
2012		Black Box Mortality	3	B per cent	133	194		416					12	129	188	87	404	-12			
2013	Jan	Population At Year Start			129	188		404											32%	47%	22%
2013		Wolf Predation (Winter)		5 moose	129	188		404	,	40	20	40		122	185	80		-17			
2013	Mar	Winter Kill	2	per cent	122	185		387					8	119	181	79		-8			
2013	Jun	Reproduction			119	181		379						159	220	154		154			
2013	0	Postnatal Mortality) per cent	159	220		533		0	0	100		159	220	108		-46			
2013		First Nations Harvest) moose	159	220		487		70	20	10		138	214	105		-30			
2013		Resident Licensed Hunting		2 moose	138	214		457		100	0	0	 	136	214	105		-2			
2013		Nonresident Licensed Hunting		moose	136	214		455		100	0	0		131	214	105		-5			
2013		Wounding Mortality		5 per cent	131	214		450		90	5	5	6	126	214	104		-6			
2013		Wolf Predation (Fall)		5 moose	126	214		444		40	20	40		119	211	98		-17			
2013		Black Box Mortality	3	8 per cent	119	211		428					13	116	204	95	415	-13		100	
2014		Population At Year Start	40.5		116			415		40				400	201	0.0	200		28%	49%	23%
2014		Wolf Predation (Winter)	1	5 moose	116	204		415		40	20	40	-	109	201	88		-17			
2014	Mar	Winter Kill Reproduction	2	2 per cent	109	201		399					8	107	197 240	86		-8			ł
2014		Reproduction		Dor cart	107	197		391				100	50	150							{
2014	0	Postnatal Mortality First Nations Harvest) per cent	150	240		558		0	0	100	50	150 129	240 234			-50			
2014		Resident Licensed Hunting) moose	150 129	240		508		70	20	10			234	114		-30			
2014				2 moose		234		478		100	0	0		127		114		-2			I
2014		Nonresident Licensed Hunting		o moose o per cent	127 122	234 234		476	·	100 90	0	0		122 117	234 234	114 114		-5			
2014		Wounding Mortality		5 moose				471 465		90 40		40	6					-b 4 7			
2014		Wolf Predation (Fall) Black Box Mortality		per cent	117 111	234 231		465 449	1	40	20	40	10	111 107	231 224	107 104		-17 -13			
2014		Population At Simulation Finish	3	per cent	111	231		449					13	107	224	104	435	-13		F 10/	2.40/
2015	Jan	Population At Simulation Finish			107	224	104	435											25%	51%	24%

D-2 Unit 2: Oopawaha

INPUT	
Start Year	2010
Bulls (Start)	112
Cows (Start)	86
Calves (Start)	37
Total (Start)	235
Total Wolf Predation	31 moose
Winter Kill	2 %
Calves Born/100 Cows	85
Postnatal Mortality	30 %
First Nations Harvest	8 moose
Resident Licensed Kill	0 moose
Nonresident Licensed Kill	0 moose
Wounding Mortality	15 %
Black Box Mortality	3 %

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0	2011	2012	2013	2014	2015

Year	Moose
2010	235
2011	232
2012	230
2013	231
2014	234
2015	240

Dev Oerst Oerse	Year	% Bulls	% Cows	% Calves
Per Cent Cows	2010	48%	37%	16%
60%	2011	44%	38%	17%
40% _	2012	41%	40%	18%
20% _	2013	39%	42%	19%
0%	2014	36%	44%	20%
2010 2011 2012 2013 2014 2015	2015	34%	46%	21%
	Weight	Bulls	Cows	Calves
Total Wolf Predation	yes	40	20	40
Winter Kill	no			
Postnatal Mortality	yes	0	C	100
First Nations Harvest	yes	70	20	10
Resident Licensed Hunting	yes	100	(0 0
Nonresident Licensed Hunting	yes	100	(0 0
Wounding Mortality	yes	90	5	5
would ing workancy	ycs	••		

| YEAR MONTHS 2010 Jan 2010 Jan-Mar 2010 Jan-Mar 2010 Jun 2010 Jun 2010 Jul-Aug 2010 Sep 2010 Sep 2010 Sep 2010 Sep 2010 Sep 2010 All Year 2011 Jan-Mar 2011 Jan 2011 Jun 2011 Jun 2011 Jan 2011 Sep 2011

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D-3 Unit 3: Numaykoosani

INPUT	
Start Year	2010
Bulls (Start)	77
Cows (Start)	78
Calves (Start)	35
Total (Start)	190
Total Wolf Predation	17 moose
Winter Kill	2 %
Calves Born/100 Cows	85
Postnatal Mortality	30 %
First Nations Harvest	12 moose
Resident Licensed Kill	2 moose
Nonresident Licensed Kill	5 moose
Wounding Mortality	15 %
Black Box Mortality	3 %

	RESULTS									
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400 -										
300 -										
200 -										
100 -										
0 -										
	2010 2011 1	1912 2913 291	* 20 ¹⁵							
	January	Population	1							
	Year	Moose								
	2010	190								
	2011	186								
	2012	186								
	2013	189								
	2014	197								
	2015	210								

Dev Cent Cerre	Year	% Bulls	% Cows	% Calves
Per Cent Cows	2010	41%	41%	18%
60%	2011	35%	45%	21%
40% _	2012	29%	49%	22%
20% _	2013	24%	52%	24%
0%	2014	20%	55%	25%
2010 2011 2012 2013 2014 2015	2015	17%	57%	26%
	Weight	Bulls	Cows	Calves
Total Wolf Predation	yes	40	20	40
Winter Kill	no			
Postnatal Mortality	yes	0	0	100
First Nations Harvest	yes	70	20	10
Resident Licensed Hunting	yes	100	0	0
Nonresident Licensed Hunting	yes	100	0	0
Wounding Mortality	yes	90	5	5
Black Box Mortality	no			

			AMOUNT	APPLIED	BULLS	cows	CALVES	POPULATION	UNEVEN				% MORTALITY	BULLS	cows	CALVES	POPULATION	POPULATION			
YEAR	MONTHS	FACTOR	OF CHANGE	AS	BEFORE	BEFORE	BEFORE	BEFORE	MORTALITY?	% BULLS %	cows	% CALVES	AS NUMBER OF MOOSE	AFTER	AFTER	AFTER	AFTER	CHANGE	% BULLS	% COWS	% CALVES
2010	Jan	Population At Simulation Start			77	78	35	190											41%	41%	18%
2010	Jan-Mar	Wolf Predation (Winter)	8.5	moose	77		35		,	40	20	40		74		32		-9)		
2010	Mar	Winter Kill	2	per cent	74	-	32						4	72		31		-4	L		I]
2010	Jun	Reproduction			72		31	-						88		64		64			
2010	Jul-Aug	Postnatal Mortality		per cent	88		64	241		0	0	100	19			44					
2010	Sep	First Nations Harvest		moose	88	90	44	222		70	20	10		79		43	-	-12			
2010	Sep	Resident Licensed Hunting		moose	79 77		43 43	210 208		100 100	0	0		77		43		-2			
2010	Sep	Nonresident Licensed Hunting		moose per cent	77		43		· · · · · · · · · · · · · · · · · · ·	90	0	5		72		43		-5			
2010 2010	Sep Oct-Dec	Wounding Mortality Wolf Predation (Fall)		moose	72	88 88	43		/	90 40	20	40	3	66		43		-3			
2010	All Year	· · ·			66		43	192	<i>i</i>	40	20	40	6	64		39		-5			
2010	Jan	Black Box Mortality Population At Year Start	5	per cent	64		39	192					0	04	03	59	100	-0	35%	45%	21%
2011	Jan-Mar	Wolf Predation (Winter)	9.5	moose	64		39			40	20	40		61	82	35	178	C	55%	40%	21%
2011	Mar	Winter Kill		per cent	61	83	35		<u>/</u>	40	20	40	1	60		33	-	-6			
2011	Jun	Reproduction	2	percent	60	80	34	170						77		68		68	2		
2011	Jul-Aug	Postnatal Mortality	30	per cent	77		68			0	0	100	20		-	48					
2011	Sep	First Nations Harvest		moose	77	97	48			70	20	100	20	68		40		-12			
2011	Sep	Resident Licensed Hunting		moose	68		46			100	0	0		66		46	-				
2011	Sep	Nonresident Licensed Hunting		moose	66	95	46	208	· · · · · · · · · · · · · · · · · · ·	100	0	0		61		46					
2011	Sep	Wounding Mortality		per cent	61		46			90	5	5	3	59		46		 ₽_			
2011	Oct-Dec	Wolf Predation (Fall)		moose	59	95	46		1	40	20	40		56		43					
2011	All Year	Black Box Mortality		per cent	56	93	43			10	20	10	6	54		42		-6			
2012	Jan	Population At Year Start		per cent	54		42						0		50		100		29%	49%	22%
2012	Jan-Mar	Wolf Predation (Winter)	8.5	moose	54		42			40	20	40		50	89	38	177	_c		15/0	
2012	Mar	Winter Kill		per cent	50		38						4	49		37		-4	L		
2012	Jun	Reproduction	_		49	87	37	174						68		74		74	1		
2012	Jul-Aug	Postnatal Mortality	30	per cent	68		74	248	ves	0	0	100	22	68		52		-22			
2012	Sep	First Nations Harvest		moose	68		52			70	20	10		60		50					
2012	Sep	Resident Licensed Hunting		moose	60	103	50	213		100	0	0		58		50		-2			
2012	Sep	Nonresident Licensed Hunting		moose	58	103	50		· ·	100	0	0		53	103	50		-5	5		
2012	Sep	Wounding Mortality		per cent	53	103	50		· ·	90	5	5	3	50		50	204	-3			
2012	Oct-Dec	Wolf Predation (Fall)		moose	50	103	50	204	ves	40	20	40		47	101	47	195	-9			
2012	All Year	Black Box Mortality		per cent	47	101	47	195	no				6	45	98	46	1	-6	6		
2013	Jan	Population At Year Start			45	98	46	189											24%	52%	24%
2013	Jan-Mar	Wolf Predation (Winter)	8.5	moose	45	98	46	189	yes	40	20	40		42	97	42	181	-8	3		
2013	Mar	Winter Kill	2	per cent	42	97	42	181	no				4	41	95	41	177	-4	L .		
2013	Jun	Reproduction			41	95	41	177						62	115	80	258	80)		
2013	Jul-Aug	Postnatal Mortality	30	per cent	62	115	80	258	yes	0	0	100		62	115	56	233	-24	L .		
2013	Sep	First Nations Harvest	12	moose	62	115	56	233	yes	70	20	10		53	113	55	221	-12	2		
2013	Sep	Resident Licensed Hunting	2	moose	53	113	55	221	yes	100	0	0		51	113	55	219	-2	2		
2013	Sep	Nonresident Licensed Hunting	5	moose	51		55			100	0	0		46		55			5		
2013	Sep	Wounding Mortality	15	per cent	46	113	55	214	yes	90	5	5	3	44	113	55	212	-3	6		
2013	Oct-Dec	Wolf Predation (Fall)	8.5	moose	44	113	55	212	yes	40	20	40		40	111	52	203	-9)		
2013	All Year	Black Box Mortality	3	per cent	40	111	52	203	no				6	39	108	50	197	-6	5		
2014	Jan	Population At Year Start			39	108	50												20%	55%	25%
2014	Jan-Mar	Wolf Predation (Winter)	8.5	moose	39	108	50			40	20	40		36		47)		
2014	Mar	Winter Kill	2	per cent	36		47						4	35		46					
2014	Jun	Reproduction			35	104	46	185						58	127	88	273	88	3		
2014	Jul-Aug	Postnatal Mortality		per cent	58		88			0	0	100	26	58		62			5		
2014	Sep	First Nations Harvest	12	moose	58		62			70	20	10		50		61			2		
2014	Sep	Resident Licensed Hunting	2	moose	50	124	61			100	0	0		48	124	61					
2014	Sep	Nonresident Licensed Hunting	5	moose	48		61			100	0	0		43		61			5		
2014	Sep	Wounding Mortality		per cent	43		61			90	5	5	3	40		60					
2014	Oct-Dec	Wolf Predation (Fall)	8.5	moose	40		60			40	20	40		37		57)		
2014		Black Box Mortality	3	per cent	37		57						6	35	119	55	210	-6	5		
2015	Jan	Population At Simulation Finish			35	119	55	210											17%	57%	26%

D-4 Unit 4: Kakwasanseesi

INPUT		
Start Year	2010	
Bulls (Start)	243	
Cows (Start)	196	
Calves (Start)	63	
Total (Start)	502	
Total Wolf Predation	51	moose
Winter Kill	2	%
Calves Born/100 Cows	85	
Postnatal Mortality	30	%
First Nations Harvest	25	moose
Resident Licensed Kill	9	moose
Nonresident Licensed Kill	5	moose
Wounding Mortality	15	%
Black Box Mortality	3	%

-

		RE	SULTS	
1000				
750 -				
500 -				
250 -				
0 -				
	2010	2011 2	on and a	n ^a 2015
		January	Population]
		Year	Moose	
		2010	502	
		2011	493	
		2012	484	
		2013	485	
		2014	494	
		2015	514	

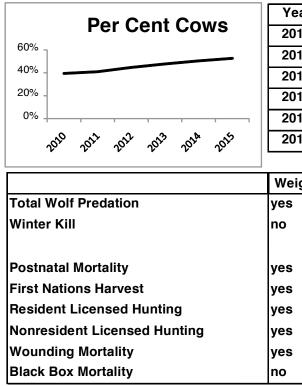
	Year	% Bulls	% Cows	% Calves
Per Cent Cows	2010	48%	39%	13%
60%	2011	41%	40%	19%
40% _	2012	36%	44%	20%
20% _	2013	32%	47%	22%
0%	2014	27%	50%	23%
2010 2011 2012 2013 2014 2015	2015	24%	52%	24%
	Weight	Bulls	Cows	Calves
Total Wolf Predation	yes	40	20	40
Winter Kill	no			
Postnatal Mortality	yes	0	0	100
First Nations Harvest	yes	70	20	10
Resident Licensed Hunting	yes	100	0	0
Nonresident Licensed Hunting	yes	100	0	0
Wounding Mortality	yes	90	5	5
Black Box Mortality	no			

			AMOUNT	APPLIED	BULLS	cows	CALVES	POPULATION	UNEVEN				% MORTALITY	BULLS	cows	CALVES	POPULATION	POPULATION			
YEAR	MONTHS	FACTOR	OF CHANGE	AFFEILD	BEFORE	BEFORE	BEFORE	BEFORE	MORTALITY?	% BULLS	% COWS	% CALVES	AS NUMBER OF MOOSE	AFTER	AFTER	AFTER	AFTER	CHANGE	% BULLS	% COWS	% CALVES
2010	Jan	Population At Simulation Start			243	196	63	502											48%	39%	13%
2010	Jan-Mar	Wolf Predation (Winter)	25.5	moose	243	196	63		yes	40	20	40		233	191	53		-25			
2010	Mar	Winter Kill	2	per cent	233	191	53						10			52		-10			
2010	Jun	Reproduction			228	187	52							254		159		159			
2010	Jul-Aug	Postnatal Mortality		per cent	254	213	159		<i>'</i>	0	0	100	-		213	111		-48			
2010	Sep	First Nations Harvest		moose	254	213	111	578		70	==	-		237	208	109		-25			
2010	Sep	Resident Licensed Hunting		moose	237	208	109			100	0	0		228		109		-9			
2010	Sep	Nonresident Licensed Hunting		moose per cent	228 223	208 208	109 109	544 539	ľ	100 90	5	5		223 217	208 208	109 109		-5			
2010 2010	Sep Oct-Dec	Wounding Mortality Wolf Predation (Fall)		moose	223	208	109		/	90 40		J		217	208	98		-0 -26			
2010	All Year	Black Box Mortality		per cent	217	208	98		/	40	20	40	15		196			-20			
2010	Jan	Population At Year Start	5	percent	207	196	95	493					15	201	190	33	493	-13	41%	40%	19%
2011	Jan-Mar	Wolf Predation (Winter)	25.5	moose	201	196	95			40	20	40		191	191	85	467	-26	41/0	40/0	19/8
2011	Mar	Winter Kill	23.5	per cent	191	190	85		/	-10	20	+0	0	131	188	83		-9			
2011	Jun	Reproduction	L	percent	187	188	83							229	229	159	617	159			
2011	Jul-Aug	Postnatal Mortality	30	per cent	229	229	159			0	0	100	48			112		-48			
2011	Sep	First Nations Harvest		moose	229	229	112	569		70	20			211	224	109		-25			
2011	Sep	Resident Licensed Hunting		moose	211	224	109			100		0		202	224	109		-9			
2011	Sep	Nonresident Licensed Hunting		moose	202	224	109	535	/	100	0	0		197	224	109		-5			
2011	Sep	Wounding Mortality	15	per cent	197	224	109	530		90	5	5	6	192	224	109	525	-6			
2011	Oct-Dec	Wolf Predation (Fall)	25.5	moose	192	224	109	525	yes	40	20	40		182	219	99		-26			
2011	All Year	Black Box Mortality	3	per cent	182	219	99	499	no				15	176	212	96	484	-15			
2012	Jan	Population At Year Start			176	212	96	484											36%	44%	20%
2012	Jan-Mar	Wolf Predation (Winter)	25.5	moose	176	212	96	484	yes	40	20	40		166	207	85	459	-25			
2012	Mar	Winter Kill	2	per cent	166	207	85	459	no				9	163	203	84	449	-9			
2012	Jun	Reproduction			163	203	84	449						204	245	173	622	173			
2012	Jul-Aug	Postnatal Mortality	30	per cent	204	245	173	622		0	0	100	52	204	245	121		-52			
2012	Sep	First Nations Harvest	25	moose	204	245	121	570		70	20	10		187	240	118		-25			
2012	Sep	Resident Licensed Hunting	9	moose	187	240	118		/	100	0	0		178	240	118		-9			
2012	Sep	Nonresident Licensed Hunting		moose	178	240	118			100		0		173	240	118		-5			
2012	Sep	Wounding Mortality		per cent	173	240	118			90	-	5	6	168	240	118		-6			
2012	Oct-Dec	Wolf Predation (Fall)		moose	168	240	118			40	20	40		158		108					
2012	All Year	Black Box Mortality	3	per cent	158	235	108	500					15	153	228	105	485	-15			
2013	Jan	Population At Year Start			153	228	105	485											32%	47%	22%
2013	Jan-Mar	Wolf Predation (Winter)		moose	153	228	105			40	20	40		143	222			-26			
2013	Mar	Winter Kill	2	per cent	143 140	222	94 93	459 450					9	140	218 264	93 185		-9			
2013 2013	Jun Jul-Aug	Reproduction Postnatal Mortality	20	per cent	140	218 264	93		ves	0	0	100		186 186	264	185	580	185 - <mark>56</mark>			
2013	Sep	First Nations Harvest		moose	186	264	185	580	/	70	20			186	264	130		-30			
2013	Sep	Resident Licensed Hunting	0		169	204			yes yes	100		10		169							
2013	Sep	Nonresident Licensed Hunting		moose moose	160	259	127		yes yes	100		0		155				-5			
2013	Sep	Wounding Mortality		per cent	155	259	127			90		5		135				-5			
2013	Oct-Dec	Wolf Predation (Fall)		moose	133	259	127		<i>i</i>	40		J		139		117					
2013		Black Box Mortality		per cent	139	254	117			-10	20		15					-15			
2014	Jan	Population At Year Start		per cent	135	246							15	100	2.10	110	10 1		27%	50%	23%
2014		Wolf Predation (Winter)	25.5	moose	135	246			yes	40	20	40		125	241	103	469	-25	21/0	50,0	20/0
2014	Mar	Winter Kill		per cent	125	241	103						g	122				-9			
2014	Jun	Reproduction			122	236		459						173		201		201			
2014	Jul-Aug	Postnatal Mortality	30	per cent	173	287	201	660		0	0	100	60			141		-60			
2014	Sep	First Nations Harvest	25	moose	173	287	141		yes	70	20	10		155		138		-25			
2014	Sep	Resident Licensed Hunting		moose	155	282	138			100		0		146		138		-9			
2014	Sep	Nonresident Licensed Hunting	5	moose	146	282	138	566	yes	100	0	0		141	282	138	561	-5			
2014	Sep	Wounding Mortality	15	per cent	141	282	138			90	5	5	6	136	281	138		-6			
2014	Oct-Dec	Wolf Predation (Fall)	25.5	moose	136	281	138		yes	40	20	40		126				-26			
2014	All Year	Black Box Mortality	3	per cent	126	276							16	122	268	124	514	-16			
2015	Jan	Population At Simulation Finish			122	268	124	514											24%	52%	24%

D-5 Unit 5: Wasekanoosees

INPUT		
Start Year	2010	
Bulls (Start)	176	
Cows (Start)	147	
Calves (Start)	46	
Total (Start)	369	
Total Wolf Predation	24 moo:	se
Winter Kill	2 %	
Calves Born/100 Cows	85	
Postnatal Mortality	30 %	
First Nations Harvest	30 moo:	se
Resident Licensed Kill	3 moo:	se
Nonresident Licensed Kill	5 moo:	se
Wounding Mortality	15 %	
Black Box Mortality	3 %	

	RESULTS									
1000 -										
750 -										
500 -										
250 -										
0 -										
	2010 2011 25	2 ¹² 2 ⁰¹³ 20	A 2015							
	January	Population								
	Year	Moose								
	2010	369								
	2011	367								
	2012	366								
	2013	374								
	2014	389								
	2015	414								



ear	% Bulls	% Cows	% Calves
010	48%	40%	12%
)11	39%	40%	20%
)12	35%	45%	20%
)13	30%	48%	22%
)14	26%	50%	23%
)15	23%	52%	25%

ight	Bulls	Cows	Calves
	40	20	40
	0	0	100
	70	20	10
	100	0	0
	100	0	0
	90	5	5

			AMOUNT	D BULLS	cows	CALVES	POPULATION	UNEVEN				% MORTALITY	BULLS	cows	CALVES	POPULATION	POPULATION			
YEAR	MONTHS	FACTOR	OF AS CHANGE	BEFORE	BEFORE	BEFORE	BEFORE	MORTALITY?	% BULLS	% COWS	% CALVES	AS NUMBER OF MOOSE	AFTER	AFTER	AFTER	AFTER	CHANGE	% BULLS	% COWS	% CALVES
2010	Jan	Population At Simulation Start		176	i 147	46	369											48%	40%	12%
2010	Jan-Mar	Wolf Predation (Winter)	12 moose	176	5 147	46			40	20	40		171	145	41		-12			
2010	Mar	Winter Kill	2 per cen				357	no				7	168	142	40		-7			
2010		Reproduction		168		40	350						188	162	120	470	120			L
2010	<u> </u>	Postnatal Mortality	30 per cen			120			0	0	100		188	162	84		-36			i
2010		First Nations Harvest	30 moose	188		84	434	/	70	20	10		167	156	81		-30			i
2010		Resident Licensed Hunting	3 moose	167		81			100	0	0		164	156	81		-3			
2010		Nonresident Licensed Hunting	5 moose	164		81	401		100	0	0)	159	156	81		-5			i
2010		Wounding Mortality	15 per cen			81	396	1	90	5	5	6	154	156	81		-6			i
		Wolf Predation (Fall)	12 moose	154		81	390		40	20	40	1	149	153	76		-12			j
		Black Box Mortality	3 per cen			76		no				11	145	149	74	367	-11	2.00/	100/	
2011		Population At Year Start	10	145		74					10		1.10	4.4.6		0.55		39%	40%	20%
2011		Wolf Predation (Winter)	12 moose	145		74	367	•	40	20	40	_	140	146	69	355	-12			
2011	Mar	Winter Kill	2 per cen			69	355					/	137	143	68		-/			<u> </u>
2011		Reproduction	20	137	-	68	348				400		171	177	122		122			
2011	0	Postnatal Mortality	30 per cen	-		122	470	1	0	0	100	-	171	177	85	433	-37			/────┤
2011		First Nations Harvest	30 moose	171		85	433	1	70	-	10		150 147	171 171	82 82		-30			┌────┤
2011		Resident Licensed Hunting	3 moose	150 147		82	403		100		0		147		82		-3			
2011		Nonresident Licensed Hunting	5 moose			82			100 90	0	0			171 171	82		-5			<u> </u>
2011 2011	Sep	Wounding Mortality Wolf Predation (Fall)	15 per cen 12 moose	142		82 82	395 390		90 40	20	40	6	137 132	1/1	82		-6 -12			l
		Black Box Mortality				77	390	•	40	20	40	11	132	168	75		-12 -11			
2011		Population At Year Start	3 per cen	132		75		10				11	128	103	/5	300	-11	35%	450/	200/
			12 moose	128		75		VOC	40	20	40		123	161	70	354	-12	35%	45%	20%
2012		Wolf Predation (Winter) Winter Kill				75	300		40	20	40	7	123	151	69	354	-12			
2012		Reproduction	2 per cen	123		69	334	110				/	121	138	134		134			I
2012		Postnatal Mortality	30 per cen			134	481	VOC	0	0	100	40	155	192	94		-40			
2012	Ŭ	First Nations Harvest	30 moose	155		94	481	1	70	20	100	-	135	192	94 91		-40			I
2012		Resident Licensed Hunting	3 moose	133		91	441	1	100	-	10		134	180	91		-30			
2012		Nonresident Licensed Hunting	5 moose	134		91	411 408		100	0	0		131	180	91		-5			
2012		Wounding Mortality	15 per cen			91		1	90	5	5	6	120	180	91		-5			1
		Wolf Predation (Fall)	12 moose	120		91	397	,	40	20	40	0	116	180	86	385	-12			
		Black Box Mortality	3 per cen			86	337	1	40	20	40	12	110	183	83		-12			
2012		Population At Year Start	5 per ceri	113		83						12	115	170	05	574	-12	30%	48%	22%
2013		Wolf Predation (Winter)	12 moose	113		83	374		40	20	40		108	176	78	362	-12	50/8	+0/0	22/0
2013		Winter Kill	2 per cen			78		/	40	20	40	7	106	170	77		-12			
2013		Reproduction	2 per cen	106		77	355	110				, , , , , , , , , , , , , , , , , , ,	100	210	146		146			İ
2013		Postnatal Mortality	30 per cen			146		Ves	0	0	100		144	210	140	457	-44			
2013	U U	First Nations Harvest	30 moose	144		140	457	,	70	20	100		144	210	99		-30			I
2013		Resident Licensed Hunting	3 moose	123		99		1	100	-	10		120	204	99					[]
2013		Nonresident Licensed Hunting	5 moose	120					100		0		115	204	99		-5			ł
2013		Wounding Mortality	15 per cen				419	,	90	5	5	6	110	204	99					I
		Wolf Predation (Fall)	12 moose	110				•	40	20	40	, second se	105	202	94		-12			I
		Black Box Mortality	3 per cen									12	103	196			-12			I
2013		Population At Year Start		102								12	102	100	51	205		26%	50%	23%
		Wolf Predation (Winter)	12 moose	102					40	20	40		97	193	87	377	-12	20/0	00,0	
2014		Winter Kill	2 per cen									8	95	189	85		-8			I
2014		Reproduction		95								ľ	138	232	161		161			I
		Postnatal Mortality	30 per cen				531		0	0	100	48	138	232	113	482	-48			i — — – I
2014		First Nations Harvest	30 moose	138					70	20	100		117	226			-30			I
2014		Resident Licensed Hunting	3 moose	117					100		0		114	226	110	449	-3			
2014		Nonresident Licensed Hunting	5 moose	114					100		0		109	226		444	-5			
2014		Wounding Mortality	15 per cen						90		5	6	104	226	109	439	-6			
		Wolf Predation (Fall)	12 moose	104					40		40	, , , , , , , , , , , , , , , , , , ,	99		105		-12			[]
		Black Box Mortality	3 per cen					1				13	96		102		-13			[]
2015	Jan	Population At Simulation Finish	İ İ	96														23%	52%	25%

INPUT	
Start Year	2010
Bulls (Start)	254
Cows (Start)	229
Calves (Start)	74
Total (Start)	557
Total Wolf Predation Winter Kill	42 moose 2 %
Calves Born/100 Cows	85
Postnatal Mortality	30 %
First Nations Harvest	45 moose
Resident Licensed Kill	6 moose
Nonresident Licensed Kill	10 moose
Wounding Mortality	15 %
Black Box Mortality	3 %

	RE	SULTS	
1000 -			
750 -			
500 -	88		
250 -			
0 -			1
	2010 2011 2	on no 2000 no	1 ⁴ 2015
	January	Population	
	Year	Moose	
	2010	557	
	2011	548	
	2012	541	
	2013	547	
	2014	565	
	2015	596	

	Year	% Bulls	% Cows	% Calves
Per Cent Cows	2010	46%	41%	13%
60%	2011	37%	42%	21%
40% _	2012	32%	47%	21%
20% _	2013	26%	50%	23%
0%	2014	22%	53%	25%
2010 2012 2012 2013 2014 2015	2015	19%	56%	26%
	Weight	Bulls	Cows	Calves
Total Wolf Predation	yes	40	20	
Winter Kill	no			
Postnatal Mortality	yes	0	0	100
First Nations Harvest	yes	70	20	10
Resident Licensed Hunting	yes	100	0	0
Nonresident Licensed Hunting	yes	100	0	0
Wounding Mortality	yes	90	5	5
Black Box Mortality	no			

			AMOUNT	BULLS	cows	CALVES	POPULATION	UNEVEN				% MORTALITY	BULLS	cows	CALVES	POPULATION	POPULATION			
YEAR	MONTHS	FACTOR	OF AS CHANGE	BEFORE	BEFORE	BEFORE	BEFORE	MORTALITY?	% BULLS	% COWS	% CALVES	AS NUMBER OF MOOSE	AFTER	AFTER	AFTER	AFTER	CHANGE	% BULLS	% COWS	% CALVES
2010	Jan	Population At Simulation Start		254		74	557											46%	41%	13%
2010		Wolf Predation (Winter)	21 moose	254		74	557	1	40	20	40		246	225	66	536	-21			
2010	Mar	Winter Kill	2 per cent	246		66						11	241	220	64		-11			ı ————————————————————————————————————
2010		Reproduction		241	220	64	525						273	252	187	713	187			
2010	5	Postnatal Mortality	30 per cent	273		187	713		0	0	100		-	252	131	656	-56			
2010	Sep	First Nations Harvest	45 moose	273		131	656		70	20	10		241	243	127	611	-45			
2010		Resident Licensed Hunting	6 moose	241		127	611	,	100	0	0		235	243	127	605	-6			
2010	•	Nonresident Licensed Hunting	10 moose	235		127	605		100	0	0		225	243	127	595	-10			
2010	Sep	Wounding Mortality	15 per cent	225		127	595	1	90	5	5	9	217	243	126	586	-9			
2010		Wolf Predation (Fall)	21 moose	217		126			40	20	40	1	209	239	118		-21			
2010		Black Box Mortality	3 per cent	209		118	565					17	202	232	114	548	-17			ı ————————————————————————————————————
2011	Jan	Population At Year Start		202		114	548											37%	42%	21%
2011		Wolf Predation (Winter)	21 moose	202		114	548		40	20	40		194	227	106	527	-21			
2011	Mar	Winter Kill	2 per cent	194		106	527					11	190	223	104	517	-11			
2011		Reproduction		190		104	517						242	275	189	706	189			
2011	Ŭ	Postnatal Mortality	30 per cent	242		189	706	/	0	0	100	-	242	275	133	649	-57			I
2011		First Nations Harvest	45 moose	242		133	649	1	70	20	10		210	266	128	604	-45			I
2011	•	Resident Licensed Hunting	6 moose	210		128	604	1	100	0	0		204	266	128	598	-6			
2011		Nonresident Licensed Hunting	10 moose	204		128	598		100	0	0		194	266	128	588	-10			
2011	Sep	Wounding Mortality	15 per cent	194		128	588		90	5	5	9	186	265	128		-9			
2011		Wolf Predation (Fall)	21 moose	186		128	579		40	20	40		178	261	119	558	-21			
2011		Black Box Mortality	3 per cent	178		119	558					17	173	253	116	541	-17			
2012	Jan	Population At Year Start		173		116												32%	47%	21%
2012		Wolf Predation (Winter)	21 moose	173		116			40	20	40		164	249	107	520	-21			
2012	Mar	Winter Kill	2 per cent	164		107	520					10	161	244	105	510	-10			
2012		Reproduction		161		105	510						213	297	207	717	207			
2012	Ŭ	Postnatal Mortality	30 per cent	213		207	717		0	0	100	-	213	297	145	655	-62			
2012		First Nations Harvest	45 moose	213		145	655		70	20	10		182	288	141	610	-45			
2012	•	Resident Licensed Hunting	6 moose	182		141	610		100	0	0)	176	288	141	604	-6			
2012	· · ·	Nonresident Licensed Hunting	10 moose	176		141	604	1	100	0	0		166	288	141	594	-10			
2012	Sep	Wounding Mortality	15 per cent	166		141	594		90	5	5	9	158	287	140		-9			
2012		Wolf Predation (Fall)	21 moose	158		140	585		40	20	40		149	283	132	564	-21			ı ————————————————————————————————————
2012		Black Box Mortality	3 per cent	149		132	564					17	145	274	128	547	-17			I
2013	Jan	Population At Year Start		145		128												26%	50%	23%
2013		Wolf Predation (Winter)	21 moose	145		128	547	1	40	20	40		136	270	119	526	-21			
2013		Winter Kill	2 per cent	136		119	526					11	134	265	117	516	-11			
2013		Reproduction		134		117	516						192	323	225	741	225			
2013	0	Postnatal Mortality	30 per cent	192		225	741	1	0	0	100		192	323	158		-68			
2013		First Nations Harvest	45 moose	192		158	673		70	20	10		161	314	153	628	-45			
2013		Resident Licensed Hunting	6 moose	161		153			100	0	0		155	314	153		-6			
2013		Nonresident Licensed Hunting	10 moose	155		153		/	100	0	0	-	145	314	153		-10			ł
2013	•	Wounding Mortality	15 per cent	145		153	612		90	5	5	9	136	314	153	603	-9			
		Wolf Predation (Fall)	21 moose	136		153			40	20	40		128	310 300	144		-21			ł
2013		Black Box Mortality	3 per cent	128		144						17	124	300	140	565	-17		500/	
2014		Population At Year Start	24	124		140			10	20	40		110	200	400	544		22%	53%	25%
2014		Wolf Predation (Winter)	21 moose	124		140 132			40	20	40		116	296	132	544	-21			
2014		Winter Kill	2 per cent	116								11	114	290	129	533	-11			I
2014		Reproduction	20	114		129					100	74	178	355	247	780	247 -74			
2014		Postnatal Mortality	30 per cent 45 moose	178		247			0	20	100		178	355 346	173	705 660				
2014		First Nations Harvest		178		173			70		10		146				-45			
2014		Resident Licensed Hunting	6 moose	146		168 168			100		0		140	346	168		-6			
2014		Nonresident Licensed Hunting	10 moose	140					100	0	- 0		130	346	168		-10			
2014		Wounding Mortality	15 per cent	130		168			90	5	5	9	122	345	168	635	-9			
		Wolf Predation (Fall)	21 moose	122		168		1	40	20	40		114	341	159		-21			
2014		Black Box Mortality	3 per cent	114		159						18	110	331	155	596	-18	1001	For	
2015	Jan	Population At Simulation Finish		110	331	155	596											19%	56%	26%

D-7 Unit 7: Kitchisippi

INPUT		
Start Year	2010	
Bulls (Start)	154	
Cows (Start)	133	
Calves (Start)	50	
Total (Start)	337	
Total Wolf Predation	19	moose
Winter Kill	2	%
Calves Born/100 Cows	85	
Postnatal Mortality	30	%
First Nations Harvest	24	moose
Resident Licensed Kill	9	moose
Nonresident Licensed Kill	0	moose
Wounding Mortality	15	%
Black Box Mortality	6	%

	RE	SULTS	
500			
400			
300			
200			
100			
0			
2015	2 ²⁰¹ 25	n pn pn	A 2015
	January	Population	
	Year	Moose	
	2010	337	
	2011	329	
	2012	323	
	2013	323	
	2014	328	
	2015	338	

	Year	% Bulls	% Cows	% Calves
Per Cent Cows	2010	46%	39%	15%
60%	2011	39%	41%	20%
40% _	2012	34%	45%	21%
20% _	2013	30%	48%	22%
0%	2014	26%	51%	24%
2010 2011 2012 2013 2014 2015	2015	22%	53%	25%
	Weight	Bulls	Cows	Calves
Total Wolf Predation	yes	40	20	40
Winter Kill	no			
Postnatal Mortality	yes	0	0	100
First Nations Harvest	yes	70	20	10
Resident Licensed Hunting	yes	100	0	0
Nonresident Licensed Hunting	yes	100	0	0
Wounding Mortality	yes	90	5	5
Black Box Mortality	no			

			AMOUNT	APPLIED	BULLS	cows	CALVES	POPULATION	UNEVEN				% MORTALITY	BULLS	cows	CALVES	POPULATION	POPULATION			
YEAR	MONTHS	FACTOR	OF CHANGE	AS	BEFORE	BEFORE	BEFORE	BEFORE	MORTALITY?	% BULLS	% COWS	% CALVES	AS NUMBER OF MOOSE	AFTER	AFTER	AFTER	AFTER	CHANGE	% BULLS	% COWS	% CALVES
2010	Jan	Population At Simulation Start			154	133	50	337											46%	39%	15%
2010	Jan-Mar	Wolf Predation (Winter)	9.5 m	moose	154	133	50	337	yes	40	20	40		150	131	46	328	-10			1
2010	Mar	Winter Kill	2 p	per cent	150	131	46	328	no				7	147	128	45	321	-7			
2010	Jun	Reproduction			147	128	45	321						170	151	109	430	109			
2010	Jul-Aug	Postnatal Mortality	30 p	per cent	170	151	109	430		0	0	100	33	-	151	76	397	-33			
2010	Sep	First Nations Harvest	24 n	noose	170	151	76	397	/	70	20	10		153	146		373	-24			
2010	Sep	Resident Licensed Hunting	9 m	noose	153	146		373	1	100	0	-		144	146		364	-9			
2010	Sep	Nonresident Licensed Hunting	0 m	noose	144	146		364		100	0	-		144	146		364	0			
2010	Sep	Wounding Mortality		per cent	144	146		364	1	90	5	J	5	140	146		359	-5			I
2010		Wolf Predation (Fall)	9.5 m	noose	140	146		359	1	40	20	40		136	144	70	350	-9			
2010	All Year	Black Box Mortality	6 p	per cent	136			350	no				21	128	136	66	329	-21			
2011	Jan	Population At Year Start			128	136		329											39%	41%	20%
2011	Jan-Mar	Wolf Predation (Winter)	9.5 m	noose	128	136		329		40	20	40		124	134	62	319	-10			
2011	Mar	Winter Kill	2 p	per cent	124	134	62	319	no				6	121	131	61	313	-6			
2011		Reproduction			121	131	61	313						152	161	111	424	111			I
2011	0	Postnatal Mortality		per cent	152	161	111	424	1	0	0	100	33		161	78	391	-33			I
2011	Sep	First Nations Harvest		noose	152	161	78	391	/	70	20			135	157	76	367	-24			I
2011		Resident Licensed Hunting	9 m	moose	135			367		100	0	0		126	157		358	-9			I
2011	Sep	Nonresident Licensed Hunting	-	noose	126	157	76	358		100	0	0		126	157	76	358	0			I
2011	Sep	Wounding Mortality		per cent	126	157	76	358	1	90	5	5	5	121	156		353	-5			
2011	Oct-Dec	Wolf Predation (Fall)	9.5 m	noose	121	156	75	353	yes	40	20	40		118	154	71	344	-10			
2011	All Year	Black Box Mortality	6 p	per cent	118	154	71	344	no				21	111	145	67	323	-21			
2012	Jan	Population At Year Start			111	145		323											34%	45%	21%
2012	Jan-Mar	Wolf Predation (Winter)	9.5 m	noose	111	145		323		40	20	40		107	143	63	313	-10			
2012	Mar	Winter Kill	2 p	per cent	107	143		313	no				6	105	140		307	-6			
2012	Jun	Reproduction			105	140		307						136	171	119	426	119			
2012	Jul-Aug	Postnatal Mortality	i i i i i i i i i i i i i i i i i i i	per cent	136	171	119	426	/	0	0	100	36		171	84	391	-36			
2012		First Nations Harvest	24 n	noose	136		84	391	•	70				119	167	81	367	-24			<u> </u>
2012	Sep	Resident Licensed Hunting	9 m	noose	119	167	81	367	1	100	0	-		110	167	81	358	-9			
2012	Sep	Nonresident Licensed Hunting		noose	110	167	81	358	1	100	0	-		110	167	81	358	0			
2012		Wounding Mortality		per cent	110	167	81	358		90	5	5	5	105	166		353	-5			
2012		Wolf Predation (Fall)		noose	105	166		353	/	40	20	40		102	164	77	343	-9			
2012	All Year	Black Box Mortality	6 p	per cent	102	164	77	343	no				21	96	155	72	323	-21			
2013	Jan	Population At Year Start			96			323											30%	48%	22%
2013		Wolf Predation (Winter)		noose	96			323	1	40	20	40		92	153	69	313	-10			
2013		Winter Kill	2 p	per cent	92		69	313	no				6	90	150		307	-6			
2013	Jun	Reproduction			90	150	67	307						124	183	127	434	127			
2013	0	Postnatal Mortality		per cent	124			434	•	0	0	====		124	183	89	396	-38			
2013	Sep	First Nations Harvest		noose	124	183	89	396		70	20	10		107	178	87	372	-24			J
2013		Resident Licensed Hunting	-	noose	107	178	-	372		100	0	0		98	178	-	363	-9			I
2013		Nonresident Licensed Hunting		noose	98			363		100				98	178		363	0			I
2013		Wounding Mortality		per cent	98			363		90		•	5	93	178		358	-5			I
2013		Wolf Predation (Fall)	1 1	noose	93			358		40	20	40		90	176		348				I
2013		Black Box Mortality	6 p	per cent	90	176		348					21	84	166	78	328	-21			
2014		Population At Year Start			84			328											26%	51%	24%
2014		Wolf Predation (Winter)		moose	84			328		40	20	40		80	164		318	-10			
2014		Winter Kill	2 p	per cent	80			318	no				6	79	161	72	312	-6			
2014		Reproduction			79		72	312		-	-			115	197		448				
2014		Postnatal Mortality		per cent	115			448		0	0	100	41	_	197		407	-41			
2014	Sep	First Nations Harvest		noose	115	197		407		70				98	192		383	-24			
2014		Resident Licensed Hunting		noose	98			383		100				89	192		374	-9]
2014		Nonresident Licensed Hunting		noose	89	192		374		100		-		89	192	93	374	0]
2014		Wounding Mortality		per cent	89			374		90			5	85	192		369				
2014		Wolf Predation (Fall)		noose	85			369		40	20	40		81	190	89	360	-10			{
2014		Black Box Mortality	6 p	per cent	81			360					22	76	178	84	338	-22	2204	E 20/	250/
2015	Jan	Population At Simulation Finish			76	178	84	338											22%	53%	25%

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