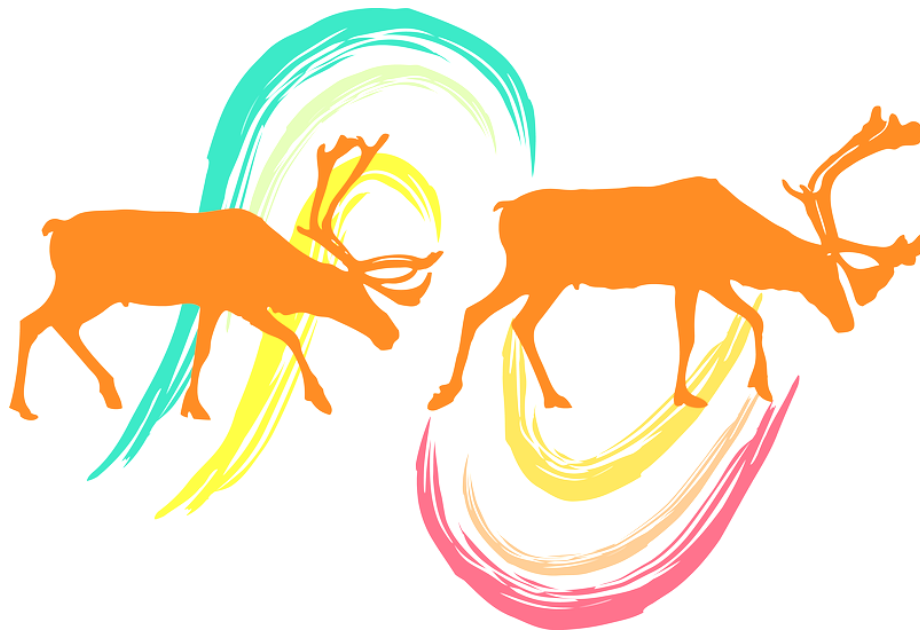




Action Plan for 2019/2020

BLUENOSE-WEST CARIBOU

– *ORANGE STATUS* –



Tuktuvialuk (Inuvialuktun, Siglitun dialect)

Vadzaih (Teet'it and Gwichya Gwich'in)

ʔedə (K'áhsho Got'ıne, Dela Got'ıne)

ʔehdaıla Goʔekwé (Délıne Got'ıne)

**Prepared by the Advisory Committee for
Cooperation on Wildlife Management**

January 2019

Suggested citation:

Advisory Committee for Cooperation on Wildlife Management. 2019. Action Plan for the Bluenose West Caribou Herd 2019/2020 – Orange Status. Yellowknife, NT.

Production note:

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About the ACCWM

The Advisory Committee for Cooperation on Wildlife Management was established to exchange information, help develop cooperation and consensus, and make recommendations regarding wildlife and wildlife habitat issues that cross land claim and treaty boundaries. The committee consists of Chairpersons (or alternate appointees) of the Wildlife Management Advisory Council (NWT), Gwich'in Renewable Resources Board, ʔehdzo Got'Inę Gots'ę Nákedı (Sahtú Renewable Resources Board), Wek'èezhìi Renewable Resources Board, Kitikmeot Regional Wildlife Board, and Tuktut Nogait National Park Management Board.

**About Taking Care of Caribou and the associated Action Plans**

In late 2014 and early 2015, members of the ACCWM approved *Taking Care of Caribou: the Bluenose West, Bluenose-West, and Bluenose-East barren-ground caribou herds management plan*. The Plan was developed in consultation with 17 communities that harvest from the three herds. . The intent is for the Plan to address caribou management and stewardship over the long term. It was presented to the Minister of Environment and Natural Resources (Government of the Northwest Territories), the Minister of Environment (Government of Nunavut), and the Environment Minister (Government of Canada) in 2014. The Management Plan is supported by two companion documents: a report summarizing recent scientific information about the herds, and a report that provides a summary of the information that was shared during community meetings to develop the Plan. Individual Action Plans were then developed for each of the three herds. These Action Plans provide details on the types of actions that are recommended based on a herd's status, as well as who is responsible for the actions, and when they should be done.

Disclaimer:

The ACCWM recognizes that the implementation of management actions moving forward is subject to appropriations, prioritizations, and budgetary restraints of the participating agencies and organizations.

ACCWM and the Taking Care of Caribou Management Plan

The **Advisory Committee for Cooperation on Wildlife Management** (ACCWM) was established in 2008, to exchange information, help develop cooperation and consensus and make recommendations regarding wildlife and wildlife habitat issues that cross land claim and treaty boundaries. *In 2014 the ACCWM recommended the **Taking Care of Caribou** management plan to the governments with management jurisdictions of these three herds.* That plan can be found here: [link](#)

How a Herd's Status and Appropriate Management Actions are Determined

The ACCWM is responsible for determining herd status each year and developing appropriate management actions based on that status. Each fall, the member boards meet for the Annual Status Meeting (Terms of Reference [TOR] can be found [here](#)) to share information and make collaborative decisions regarding the herds, including herd status, according to the requirements of regional legislation and land claims agreements. The implementation of the Action Plans is also reviewed at this time and actions for the BNW herd can be found in Table 2.

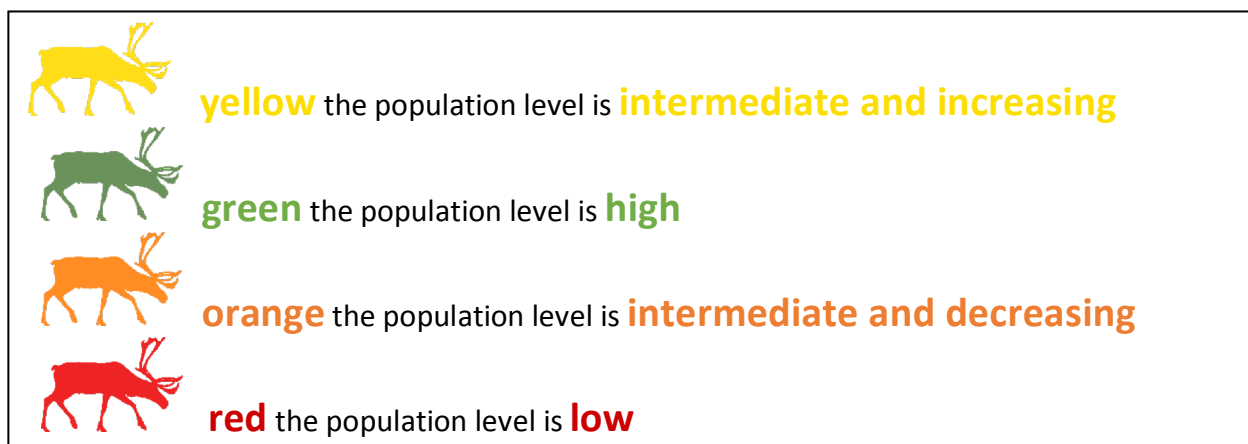


Figure 1: Phases of the population cycle with the colour-coded "traffic light" approach used in the Management Plan and associated Action Plans.

Status Decision 2018

Management actions are based on these phases of the population cycle, using approximate levels or "thresholds" as a guide. Thresholds for the herds were determined by the ACCWM based on known historic highs and lows, with input received from community and technical experts in a consensus-based process. **However, it is not only the threshold value that is used to determine the colour zone – the determination of herd status takes into account all available information.** The traffic light approach to understanding risk in caribou population cycles is shown in Figure 2 along with the approximate thresholds for the Bluenose-West herd.

According to the process outlined in the Management Plan, numerous criteria are used to make an annual status decision. Information considered by the ACCWM in making the 2018 decision is summarized in Table 1 below.

Time (population cycle approximately 30 to 60 years)

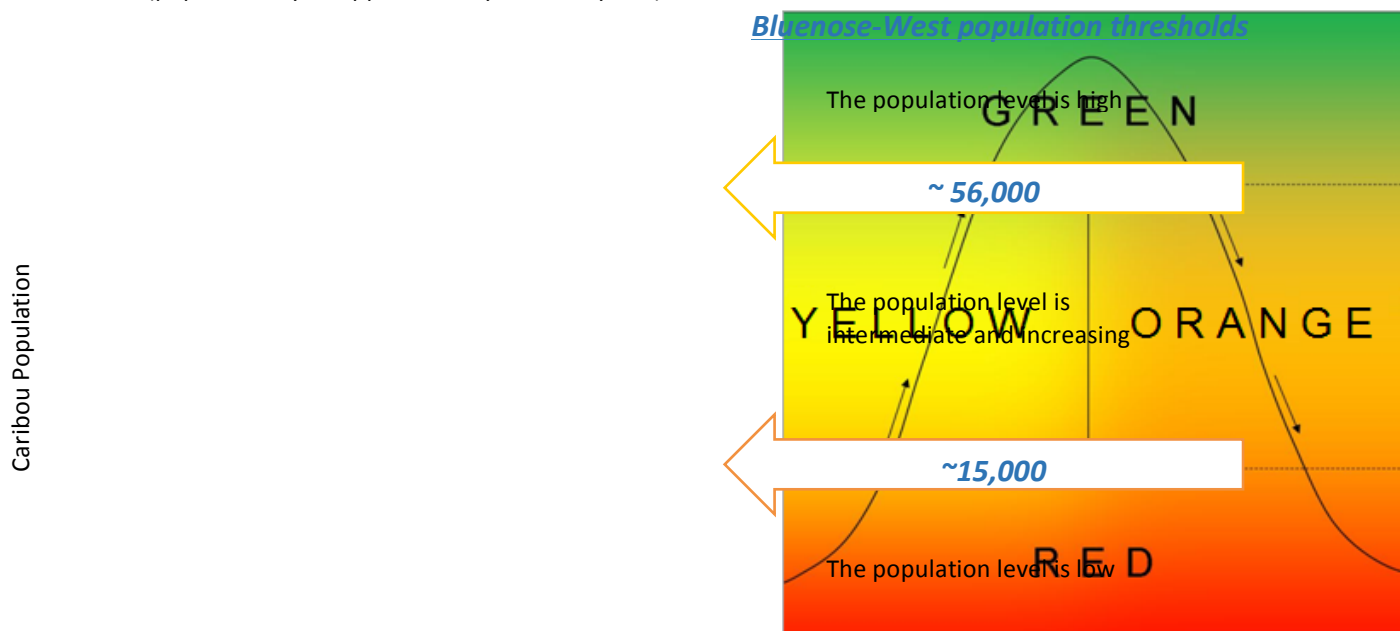


Figure 2: Phases of the population cycle with the colour-coded "traffic light" approach used in the Management Plan and associated Action Plans.

Based on the information provided, the ACCWM determined the Bluenose-West herd status colour zone to be **orange (intermediate and decreasing)** in November 2018. Community members in both the Inuvialuit and Sahtú observed more calves than in previous years, suggesting that the population may be moving towards a yellow status but for the moment the ACCWM decided to use the precautionary principle and maintain the previous year's status designation. This decision recognizes that the herd size appears to be stable and that ongoing conservation actions are needed to help the Bluenose-West herd recover.



IN 2019/20

the Bluenose-West caribou population status is
ORANGE: intermediate and decreasing

Table 1: Criteria used to assess Bluenose West status in 2018.¹

Criteria	2018 Community-Based Information ²	Scientific Information ³	Comments
Population size	<p>Paulatuk (WMAC): Community members noted there is caribou in their region year-round.</p> <p>Tuktoyaktuk (WMAC): noted in the past 4 years have seen more caribou than prior to 5 years ago, and last year was more.</p> <p>Inuvik (WMAC) members noted it is the same as last year.</p> <p>Inuvik (GRRB): This is more for the biologist to say with the surveys they conducted this year. From preliminary results, it seems that the population is stable.</p> <p>Colville Lake (Sahtú): We have a difference of opinion on numbers, but we are working through that.</p>	Estimated number of adult caribou at least 1.5 year old in 2018 Rivest: 21,011 ± 4,602	Estimated based on July post-calving ground survey
Population trend and rate of change	<p>Paulatuk (WMAC): Community members noted the population seems to be increasing compared to the 1990s. We have caribou year-round now. In the 1990s we had to travel across the Anderson River to get caribou, but now for the past 8 years you don't have to go that far; You still have to go further inland to get</p>	There is no significant decrease per year between 2005 and 2018 (Confident Interval [CI] -4 to 1%).	TAH based on 4% of 2006 LP population estimate 17,781 Trend analysis is based on Rivest estimates 2015: 21,535 ± 5,136

¹ This table is populated with information presented to the ACCWM to assess herd status in 2019 and is adapted from the monitoring criteria table included in *Taking Care of Caribou*.

² Bluenose-West caribou usually migrate through two settlement areas/regions and are typically harvested by four communities: Aklavik, Inuvik, Tsiigehtchic and Tuktoyaktuk. In 2018, community-based information was documented in the following ways: 1. The Gwich'in Renewable Resources Board (GRRB) held a community meeting in Inuvik, and 2. The Wildlife Management Advisory Council (WMAC, (NWT)) held community meetings in Inuvik, Paulatuk, and Tuktoyaktuk; of these communities, Inuvik and Tuktoyaktuk are the communities that mostly encounter and harvest Bluenose-West caribou.

³ All scientific information and comments were provided by Environment and Natural Resources (ENR) (GNWT) unless otherwise noted.

	<p>caribou but not as far as the 1990s.</p> <p>Tuktoyaktuk (WMAC): community members are seeing a few more caribou and the caribou bunches/herds are getting bigger compared to last year</p> <p>GRRB: The population has increased in the past due to changing the survey method. This means that the TAH should increase to reflect %4 of the updated population estimate provided by ENR.</p>		<p>2012: 32,326 ± 15,482</p> <p>2009: 21,773 ± 4,884</p> <p>2006: 28,461 ± 7,431</p> <p>2005: 26,228 ± 5,878</p>
Productivity and recruitment	<p>Paulatuk (WMAC): Community members observed everything was behind schedule. We saw a lot of young ones and fresh calves; you see cows with calves just about anywhere you go.</p> <p>Tuktoyaktuk (WMAC): community members observed there is a good number of calves with cows, including older calves (yearlings). Calves were seen in April this year, in the past calves weren't seen until May. The reindeer are usually calving in April, but this was caribou that we were seeing.</p>	<p>No new information since 2017</p> <p>In 2017, there were a moderate number of cows with calves in early April</p> <p>Estimated number of calves per 100 cows in 2017: 32</p>	
Adult composition	<p>Paulatuk (WMAC): Community members observed there are a lot of cows and calves were seen in the flats; saw a lot of young bulls around Falaize Lake area (beginning of September).</p> <p>Tuktoyaktuk (WMAC): community members are seeing lots of lone bulls in July/August but later in August they start mixing with the cows and calves.</p>	<p>No new information since 2009</p> <p>There is only one bull to cow ratio for Bluenose-West (2009) so trend is unknown, but the 2009 results is considered high.</p>	<p>The bull ratio is monitored because a bull dominated harvest was recommended.</p>

	There are less community observations because people were not able to get out this fall due to bad weather.	Estimated number of bulls per 100 cows in 2009: 70	
Body condition and health	<p>Paulatuk (WMAc): Community members observed the caribou by the coast were very skinny in the beginning of August this year. There were some fatter ones further out, up in the hills by Billy Lake area; saw rain effects on caribou this year (the rain happened in December/January) – in March/April we saw abrasions from the ice on noses and legs (their shins); sometimes you see a caribou with its lungs stuck to the ribs. Otherwise it is healthy.</p> <p>Tuktoyaktuk (WMAc): community members observed the young bulls had 1-1.5 inches of fat in March; most caribou harvested are healthy; one caribou harvested was sick with pneumonia; one caribou harvested had tapeworms (looked like white rice); some non-typical antlers seen recently – flat and twisted, really wide; The bulls in July were already fat and had big antlers and some bulls lost their velvet early this year; bulls had 2.5-3 inches of fat by end of July; and, by August they were almost obese.</p> <p>Colville Lake (Sahtú): A lot of the caribou do not have much fat on them, suggesting they have trouble grazing.</p>	<p>Condition of bulls was on average ‘good’ and cows were on average ‘excellent’ in the 2017/2018 harvest season.</p> <p>Average back fat in 2017/2018 season was 1.32 cm (range 0 to 2 cm) for cows and 0.54 cm (range 0 to 1 cm) for bulls.</p>	<p>Scientific information based on Paulatuk harvester reported samples for BNW herd. Samples size was low. Condition information was reported for 6 cows and 8 bulls and back fat information was reported for 9 cows and 6 bulls in the 2017-2018 season.</p>
Harvest levels	<p>Paulatuk (WMAc): Community members stated there was lower harvest this summer due to the weather – we were not able to go out as much as we wanted; we try not to harvest cows at any time. We wait for the bulls in the spring. Many more bulls are harvested than cows; one</p>	<p>Total harvest uncertain.</p> <p>We do not know the bull to cow ratio of the harvest. There is a target of 80% bull harvest.</p>	<p>TAH tag returns in Inuvik Region 2017/2018</p> <p>Inuvialuit: 345 Quota; 293 harvested</p> <p>Gwich’in: 22 quota;</p>

	<p>harvester has only taken bulls for 10 years. We don't harvest in October/November because of the rut (October), stink (Nov); in the past, cows were harvested but this is not our practice anymore; There is a decrease in local harvesting because of conservation efforts; despite the numbers, we have never overharvested. We are natural conservationists; we only harvest bulls 3 months out of the year; the community harvest will happen again this year for Elders and single parents and we will target bulls; if a harvester can't take a bull, they will take a dry cow.</p> <p>Inuvik (GRRB): Nihtat RRC: 12/22 tag used for the Gwich'in this year. All 4 communities in the GSA asked for tags this year compare to previous year. All tags were given out, but some hunters didn't make it to the caribou because they were too late in the year. With the porcupine moving West and not coming to the Dempster highway, tags requests are increasing. The Inuvialuit gets 345 tags for the BNW. We agree with this because it is their main source of food. However, we would like more tags. The population has increased in the past due to changing the survey method. This mean that the TAH should have increased following a 4% TAH.</p> <p>Colville Lake (Sahtú): The community as whole has reduced the hunt and we are trying to lower the cost of food so that people don't need to hunt as much. We believe that the caribou won't come around if we don't hunt them and don't follow the traditions of respect towards the caribou.</p> <p>We don't have numbers but we do</p>		<p>12 harvested.</p> <p>Sahtu: 350 quota; estimated less than 20 from Fort Good Hope harvested. Total harvest unknown.</p>
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	<p>know that people are hunting less. There are a lot of other animals in the area that we are not used to seeing. People are shooting moose 2 or 3 times per month which may offset the caribou harvest. Similarly, we try to promote hunting other animals like muskox, which are growing in numbers in the region.</p> <p>Tuktoyaktuk (WMAc): harvesters noted that there are less people were able to get out for the fall harvest (boating season) this year because of the weather; the first harvesters out see the most during both the fall boat harvest and snow machine harvest after freeze up; it is harder to harvest by ATV because the caribou are becoming more started from the noise. Now you have to park your bike and walk about ½ kilometer to get in range; the season change for zone I/BC/06 is helping encourage bull harvest; human conservation measures have had an impact. Some people hunt without a tag or in the closed zone. Some people are wasting meat (i.e. killing caribou and only taking hind quarter and leave the rest); sale of dry meat has slowed down on social media since last year, but there is still some ongoing that is not advertised.</p> <p>Fort Good Hope (Sahtú): In the past they gave tags, but they didn't use them because that wasn't their law. Word is getting around to not to bother the caribou, people are hunting other things like moose now.</p> <p>Traditionally when there are lots of caribou it was okay for everyone to come but when they are low it is important that only the local harvesters should have access to</p>		
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	<p>those animals. In the past, the high level of access meant that outsiders were over harvesting. It is problem that we have to deal with now. It is up to the traditional governments to control this. We are cutting down on the sale of caribou meat by providing employment in the communities.</p> <p>Colville Lake (Sahtú): We have asked people not advertise the location of caribou on the land.</p>		
<p>Predator populations</p>	<p>Paulatuk (WMAC): Community members observed the wolf numbers are up. The wolves were really healthy. Normally in the summer the wolves don't have much fat but they did this year; grizzly bears are up (saw a mother with 3 cubs again this year). A grizzly bear was harvested and was really fat – even had stomach fat. The community is maxing out their grizzly bear tags.; in general, there have been more eagles except this past year we saw less eagles (there were less salmon and bad weather). We saw no eagles at the fishing site; wolverine numbers haven't changed – you always see tracks.</p> <p>Tuktoyaktuk (WMAC): community members think there are always predators around (grizzlies, wolverines, wolves); there are lots of golden and bald eagles and every year you see more. A few year back a bald eagle was observed taking a calf; This year there are way more grizzly bears, there are some sows with 4 cubs and lots of 3 cubs; the by-law restricts hunting females with cubs so that makes it hard to harvest.</p> <p>Fort Good Hope (Sahtú): There are lots of bears and wolves. There are a lot of wolves and the packs are big.</p>	<p>Paulatuk submitted 1 wolf in the 17/18 season.</p> <p>Of the wolf stomach content analyzed from the Inuvik Region mainland, 68% was caribou by weight (in studies during 2006-2010).</p>	<p>Changes in wolf harvest does not necessarily reflect changes in wolf abundance.</p>

	<p>Colville Lake (Sahtú): This year there are more grizzly bears. They are staying out of the den and they are hunting longer. The snow is getting crustier and the wolves can get around on it easier.</p> <p>Fort Good Hope (Sahtú): There are more bears along the Mackenzie, in areas that we haven't seen them before.</p>		
<p>Range and movement patterns</p>	<p>Paulatuk (WMAC): Community members observed the caribou usually come down here, but last year and this year you see the movements go further south from Paulatuk; the caribou migrated east early this year. The first week of August they were already crossing George Creek; the caribou never came up to the coast, probably because they didn't need to escape the mosquitoes or cool off because the weather was so cool and rainy; in March and April, the caribou weren't where they were supposed to be (due to ice). They were gone – only old tracks.</p> <p>Tuktoyaktuk (WMAC): community members observed that the caribou move all over and can switch herds; the caribou are moving further up into the bush because the snow levels are lower; small caribou herds are being seen near small muskox herds in May, so they are sharing the same feeding areas near Mason River area.</p> <p>Inuvik members observed in the spring of 2018, there were a few bunches seen near the Inuvik-Tuktoyaktuk highway and then not as many seen during the summertime.</p> <p>Inuvik (GRRB): People used to see caribou around Inuvik when growing up (around 30 years ago). Now there</p>	<p>Most collared cows return to their calving ground – 149 of 151 cows returned (2010 to 2018)</p> <p>One Bluenose-East collar moved to the Bluenose-West calving grounds in 2018</p>	

	<p>is none.</p> <p>Fort Good Hope (Sahtú): We need monitor in more areas as caribou are in places where they may not have been monitored before.</p>		
<p>Environment and habitat</p>	<p>Paulatuk (WMAC): Community members noted this year we had bad weather – it was cold with rain and snow through the summer. June had a few good days; green-up about the same time. There was an extended spring thaw; no berry picking this year due to weather (a cold spell in July killed the aqpiks). Cranberries are late. Lots of blueberries; there were icing events this year (December/January) – there was a 3-inch layer of ice; there was a lot more slumping and erosion noticed out on the land; the north-facing snowbanks melted despite the cold, in Rat Lake area. Lots of green foliage. Arctic cotton was growing a lot and purple flowers [lupines]; the freeze-up is already here this year (mid September).</p> <p>Tuktoyaktuk (WMAC): community members noted that there was rain last December that caused a lot of ice – the ptarmigan were slipping around; more slumps and landslides, including landslides right near the caribou trails; the snow levels are lower and the caribou are moving further up into the bush; creeks are plugged up by beavers, so there is overflow and creeks are widening; last few years have been way less bugs (warble flies, etc.) so the caribou are staying where there is better food and not running around as much; had a cold spring and summer, lots of rain and wind.</p> <p>Inuvik (GRRB): Climate change is changing a lot of things. There is more thawing, it's warm and wet. It used to</p>	<p>There were very few fires in the 2018 season.</p> <p>Parks Canada/TNNPMB currently developing a forage availability map for the calving grounds. This map can be used in the future to investigate changes to the vegetation composition and the timing of green-up within the calving grounds.</p>	

	<p>be colder (a long time ago). Now, it's still 2-3 degrees in September.</p> <p>Colville Lake (Sahtú): Lots of landslides, waterways shifting, vegetation is sliding into the water as the banks collapse and there is concerns about the increase in mercury in the water, more snow lots of crust. It is getting warmer; there are more caribou when it was cold.</p>		
<p>Human disturbance</p>	<p>Paulatuk (WMA): Community members stated one company, Generation Mining, flew their helicopters during the summer. They heard it every day as far as Egg Island. One community member flew as a wildlife monitor. Most of the time flew low level. Submitted reports to HTC and EISC. The vast majority of the caribou weren't congregating when they flew. Saw mainly young bulls, when they passed caribou they didn't budge (the muskox spooked though). They saw very few caribou as the ENR surveying was going on at the same time, so they stayed out of that area; there was collaring done by ENR in March and a photosurvey was flown in July.</p> <p>Tuktoyaktuk (WMA): community members stated there are lots of helicopters and planes flying around, end of June/early July, up the peninsula past Campbell Island; Caribou are more startled by noise (i.e. ATV) than they used to be.</p> <p>Inuvik members stated there is concern about the Inuvik-Tuktoyaktuk highway now that is it open and there is a lot of traffic and the caribou will leave the area; the caribou seen near the highway in the Spring 2018 didn't seem bothered.</p>	<p>Summer 2018 Generation Mining conducting a Magnetotelluric survey near Paulatuk.</p> <p>TNNPMB/Parks Canada has agreed to minimize over-flights during calving and post-calving</p>	

	<p>Inuvik (GRRB): With the new ITH, the access to BNW has increased a lot for Tuktoyaktuk (year-round access). It is ok because there is a tag system but could allow an increase in poaching and the development of monitoring plans will help address these pressures.</p> <p>Colville Lake (Sahtú): We are asking outsiders to let the community government office know when they are on the land and to get permission to go hunting on our lands.</p>		
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Orange Status Management Actions for Bluenose West Caribou

Management actions described in *Taking Care of Caribou* fall into five main categories: **Education**, **Habitat**, **Land Use Activities**, **Predators** and **Harvest Management**.

We have included a sixth category here to capture the **Monitoring** actions that were also identified in the Management Plan. Monitoring is a key part of learning and assessing the success of management actions. For the most part, monitoring actions differ from management actions as they are not as dependent on herd status – they are ongoing in many cases, but their frequency or intensity may change with changing status.



To make it easier to find specific information for each of these action categories they have been colour-coded throughout this document.

Different actions are often required depending on whether a herd's status is determined to be green, yellow, orange or red. A table summarizing appropriate management actions for all status levels as agreed to in *Taking Care of Caribou* is included in **Appendix B**. As the status of the Bluenose-West herd is **orange (intermediate and decreasing)**, each of the bulleted actions outlined for red status in that table has now been developed into a series of specific tasks in the **Management Actions Table** of this Action Plan.

Because most activities under **Education** and **Habitat** require very long-term approaches to be effective, the suggested management actions remain the same no matter the status of the herd. For actions in the **Land Use Activities**, **Predators**, and **Harvest Management** categories to be responsive to different phases of the population cycle, different actions are required depending on a herd's status – for example, when setting a herd Total Allowable Harvest (see **Appendix G** for an explanation of how allocations and the Total Allowable Harvest for a herd are set).

Management Actions Table for Bluenose West Caribou: Orange Status

Following principles laid out in *Taking Care of Caribou*, all actions and tasks described in this table will draw upon both community-based knowledge (including traditional knowledge) and scientific information. The ACCWM recognizes that documenting and using traditional knowledge is a priority for all member boards.

A. Education ⁴					
A – 1. Develop education strategy <i>Objective – address community concerns regarding a lack of education (see various themes identified in Taking Care of Caribou) and clarify an approach</i>					
Task	Partners ⁵	Performance Measure	Deliverable date	Priority level ⁶	Status November 2018 – plans for 19/20
A.1.1 Strike an Education and Communication Working Group	ACCWM and government partners ⁷	Education and Communication Working Group meeting	2017/18	Top	Done
A.1.2 Develop a Terms of Reference	ACCWM Working Group	Finalized TOR, approved by ACCWM	2017/18	Top	Approved (2018).
A.1.3 Determine existing materials, programs, gaps, and opportunities for collaboration	Education and Communication Working Group	List of existing materials and programs, and opportunities for collaboration	2017/18 2018/19	Top	Ongoing; Dropbox with existing materials has been created.

⁴ Education specific to industrial land uses is dealt with in section C – Land Use Activities (C.3.1 and C.3.2).

⁵ Potential partners have been identified for individual tasks. Leads on tasks may vary, and will be determined at a later date.

⁶ While the ACCWM member boards feel that most of the management actions included here have a high priority, only those tasks and actions that call for immediate attention have been given a priority and deliverable deadline to date. These actions/tasks are categorized as ‘Top’ priority in the table. Further

A.1.4 Engage community organizations ⁸ for input on educational strategy	Education and Communication Working Group, with assistance from ACCWM	Summary of input / guidance from communities and related revisions	Every year before annual status meeting	Top	Input from annual community tours.
A.1.5 Develop educational strategy, allowing for regional differences	Education and Communication Working Group	Document outlining strategy	2017/18 2018/19	Top	The strategy is done (2018). Ask for ACCWM guidance on priorities (e.g., Respect, Wounding, Why ACCWM?)
A.1.6 ACCWM reviews educational strategy and provides advice to member boards ⁹ for approval	ACCWM	Advice provided to member boards	2018/19	Top	
A.1.7 Implementation of educational strategy	Member boards, government partners and regional partners ¹⁰	Summary report	2018/19 and onwards	Top	The Strategy is was discussed at the 2018 meeting.

⁸ Throughout this document, “Engage community organizations” means that the member boards of the ACCWM will decide in any circumstance whether the community perspective is adequately represented within each boards’ discussions, or whether a further process of community/community organizations’ engagement is necessary. ACCWM member boards have discretion as to what community organizations are engaged and how the engagement takes place.

⁹ Throughout this Action Plan, the term ‘member boards’ refers to the six boards which are members of the Advisory Committee for Cooperation on Wildlife Management (ACCWM), including the Wildlife Management Advisory Council (NWT), Gwich’in Renewable Resources Board, ʔehdzo Got’ıne Gots’ę Nákedı (Sahtú Renewable Resources Board), Wek’èezhı Renewable Resources Board, Kitikmeot Regional Wildlife Board, and Tuktut Nogait National Park Management Board.

¹⁰ Regional partners, which vary significantly by region, may include individual community members, community organizations, such as RRCs/HTCs/HTOs, and regional organizations.

A – 2. Develop education materials					
<i>Objective – address community concerns regarding a lack of education on sustainable and respectful use, as well as caribou ecology</i>					
A.2.1 Develop draft materials based on results of A.1.3 and A.1.4	Education and Communication Working Group	Draft education materials	2018/19	Top	<p>Several materials have been developed by the Communications and Education Working Group. This includes, thank you notes and posters, post cards, shooting targets, etc.</p> <p>ENR provided an animated map of herd movements that was useful as a decision-making tool. This should be updated yearly.</p>
A.2.2 Engage community organizations regarding types of materials and distribution		Summary of input / guidance from communities and related revisions	2018/19	Top	SRRB: Engagement through community conservation planning, especially with Colville Lake.
A.2.3 Revise and distribute materials		Send finalized educational materials	2018/19	Top	
A – 3. Community education events / programs					
<i>Objective – address community concerns regarding a lack of education on sustainable and respectful use, as well as caribou ecology. Limit wounding loss and improve identification of individual caribou</i>					
A.3.1 Develop events / programs based on results of A.1.3 and A.1.4	Education and Communication Working Group, with assistance from ACCWM WG and regional partners	Develop 1-3 workshop curricula / programs			
A.3.2 Engage community organizations regarding type and timing of		Summary of input / guidance from communities and			

workshops in each region	on Working Group, with assistance from ACCWM WG	related revisions			
A.3.3 Deliver workshops / events	Education and Communication Working Group, with community organizations and government partners	Minimum target: delivery of one workshop / event per region, per year			
A.3.4 Hold sight in your rifle events	organizations and government partners	Minimum target: delivery of one workshop / event per region, per year		Top	
<p>A – 4. School and youth education events / programs <i>Objective – address community concerns regarding need for education and engagement of youth. Increase knowledge transfer between elders and youth</i></p>					
A.4.1 Adapt education materials (developed in A – 2) for school use (at elementary and high school levels)	Education and Communication Working Group	Education packages for community agency / organization use			<p>WMAC went into the schools and did a sex ID presentation with the kids.</p> <p>SRRB was involved in the programs such as the Dene Ts'ı̄l̄ı̄ camp which discussed hunter mentorship and caribou in general.</p>
A.4.2 Adapt community education programs / events (developed in A – 3) for use in school and youth-focused settings appropriate for each community and region (e.g., back to the land		Draft youth-focused workshop curricula / programs			

camps)					
A.4.3 Engage community organizations regarding types of materials and program delivery		Summary of input / guidance from communities and related revisions			
A.4.4 Program delivery	Community groups / agencies	Minimum target: delivery of one workshop / event per region, per year			
A.4.5 Encourage and promote hunter mentorship – develop programs	Community groups / agencies, with schools	Minimum target: delivery of one workshop / event per region, per year			

B. Habitat					
B – 1. Identify and recommend protection for key habitat areas					
<i>Objective – address community concerns that key habitat areas are not protected sufficiently</i>					
Task	Partners	Performance Measure	Deliverable date	Priority level	Status
B.1.1 Compile and review ENR Technical Report, SARC BGC Status report, land use plans, results of monitoring programs, etc. for information	Government partners and ACCWM WG	Compilation of existing materials Next steps: Jody will create a Dropbox for people to add materials	2017/18 2018/19	Top	Ongoing. Inuvialuit Community Conservation Plans were updated; Section 8 of the IFA affords some protection to Bluenose-West.

B.1.2 Engage community organizations for identification of key habitat areas	ACCWM WG	Summary of input / guidance from communities	2017/18 2018/19	Top	Ongoing. Délı̄nə Plan identifies key habitat areas as does the land use plan for the Sahtú.
B.1.3 Identify key habitat areas in a sensitive habitat report based on information from B.1.1 and B.1.2	Government partners and ACCWM WG	Provide report to ACCWM, including draft maps of key areas	2018/19	Top	GRRB working with Gwich'in Land Use Planning Board (GLUPB) to identify critical habitat for caribou in the GSA. GLUPB could support measure for habitat management for barren-ground caribou recommended by the ACCWM in the GSA. Parks Canada is working on a BNW forage project in Tutkuk Nogait National Park to predict and map summer forage quality and availability for BNW. This is expected to be able to act as a baseline to monitor changes in forage availability overtime. Once completed, it will be shared with ACCWM.
B.1.4 ACCWM reviews sensitive habitat report and provides advice to member boards for approval	ACCWM	Advice provided to member boards	2018/19	Top	
B.1.5 Member boards make and communicate recommendations to appropriate authorities	Member boards	Recommendations provided	2018/19	Top	
<p>B – 2. Review results of monitoring, including cumulative effects, to ensure enough habitat is available and caribou are able to move between areas of good habitat</p> <p><i>Objective – ensure research and monitoring programs are relevant and addressing current information needs for habitat management</i></p>					
B.2.1 Map and track landscape	Government partners	Compilation map			GNWT 'Inventory of Landscape Change' being updated

disturbances					Annual tracking of wildfire footprint
					Mackenzie Valley GIS submission standards
B.2.2 Identify and review recent relevant information (e.g., including results from research, monitoring; see C – Land Use Activities, also F – Monitoring Actions)	ACCWM WG and government partners, academics	Summary report	Every year before annual status meeting		
B.2.3 Identify and / or review any gaps or previous gaps assessments		List of gaps identified			
B.2.4 Seek collaborators to help refine research questions and knowledge gaps		Advice included / received from collaborators			
B.2.5 ACCWM reviews information and provides advice for research and monitoring based on information from B.2.1-4	ACCWM	Advice provided to member boards			
B.2.6 Member boards make and communicate	Member boards	Recommendations provided			

recommendations to appropriate authorities					
B – 3. Recommend important habitat as a ‘value at risk’ for forest fire management <i>Objective – ensure sufficient winter habitat for caribou</i>					
B.3.1 Based on results of B – 1 and as results of B – 2 are available, provide advice to member boards on values at risk	ACCWM	Key areas identified for fire management and advice provided to member boards			
B.3.2 Member boards make and communicate recommendations to fire management	Member boards	Recommendations provided			

C. Land use activities

C – 1. Review results of cumulative effects monitoring programs <i>Objective – ensure cumulative effects monitoring programs are operational and relevant</i>					
Task	Partners	Performance Measure	Deliverable date	Priority level	Status
C.1.1 Building on work done in Habitat (B – 2), identify and review recent relevant information (e.g., CIMP, ENR, DOE)	ACCWM WG and government partners	Summary report			
C.1.2 Identify and /		List of gaps			

or review any gaps or previous gaps assessments		identified. Collation of previous gap assessments			
C.1.3 ACCWM reviews information and provides advice for research and monitoring based on information from C.1.1 and C.1.2	ACCWM	Advice provided to member boards			
C.1.4 Member boards make and communicate recommendations to appropriate authorities	Member boards	Recommendations provided			
C – 2. Provide advice on mitigation of industrial impacts to proponents and regulators <i>Objective – minimize industrial impacts to caribou and their habitat</i>					
C.2.1 Identify parties involved in industrial activities on a herd's range (e.g., regulators, proponents and active developers)	ACCWM WG and other relevant agencies / partners (e.g., Land and Water Boards, ILA)	List of regulators, proponents, active developers			
C.2.2 Engage community organizations to identify land use concerns and how they should be	ACCWM WG	Summary of input / guidance from communities and current regulatory			

addressed. Engage with regulators to identify any existing protocols		protocols			
C.2.3 Identify and / or develop mitigating advice and / or recommendations, targeted to specific audiences, including standards provided in <i>Taking Care of Caribou</i> (Appendix G)	ACCWM WG, regional and government partners	Recommendations provided			
C.2.4 ACCWM reviews information and advises member boards	ACCWM	Advice provided to member boards			
C.2.5 Member boards make and communicate recommendations to proponents (including air carriers and other subcontractors) and regulators, including updates on herd status and sensitive habitat report	Member boards	Recommendations provided; results of C.2.2 and herd status provided			

<p>C – 3. Provide active and accessible communication and recommend education programs for all, including proponents and airlines <i>Objective – address concerns regarding land use activities impacting caribou habitat, and a lack of information on best practices / mitigating advice</i></p>					
<p>C.3.1 Develop and / or adapt existing education packages specific to proponents, regulators, air carriers and any other users not already covered by actions in A – Education, and C – 1 and C – 2 (recreational, traffic)</p>	<p>Education and Communication Working Group</p>	<p>Draft materials</p> <p>Next steps: The working group create fact sheets based on existing materials to educate groups about what the conditions are.</p>		<p>Top</p>	
<p>C.3.2 Communicate educational materials developed in C.3.1</p>		<p>Finalized materials sent out</p>		<p>Top</p>	
<p>C – 4. Recommend increased enforcement of land use regulations, including community monitors¹¹ <i>Objective – evaluate and track effectiveness of enforcement, and ensure community monitoring programs have a role in supporting application of land use regulations</i></p>					
<p>C.4.A.1 Identify relevant agencies involved in inspection,</p>	<p>ACCWM WG and other relevant agencies /</p>	<p>List of relevant agencies and regulations</p>	<p>2017/18 2018/19</p>	<p>Top</p>	<p>Ongoing. GNWT Lands, Regional Land & Water Boards (provide conditions), EISC, EIRB, ILA, ENR, GN.</p>

¹¹ Enforcement is an action whereby delegated officers ensure compliance to an act of parliament or legislative assembly, or a regulation disseminated under an act where there is a sanction for failure to “comply” normally in the form of a fine or imprisonment. Monitoring is an action whereby community monitors (as described in this plan) observe and report on all aspects of land-use activities and wildlife management to the relevant agencies and/or regulators. A community monitor has no delegated legal authority.

enforcement and monitoring	partners (e.g., Land and Water Boards, ILA)	Next steps: approach GNWT Lands, regional Land & Water Boards re: list of who does what			
C.4.A.2 Compile and review acts / regulations and current inspection and / or enforcement strategies and levels	ACCWM WG and regional partners	Summary report	2017/18 2018/19	Top	Ongoing Dropbox created for sharing materials.
C.4.A.3 Engage community organizations regarding enforcement approaches	ACCWM WG and government partners	Summary of input and guidance	2018/19	Top	
C.4.A.4 Based on information from C.4.A.2 and C.4.A.3, assess enforcement, and provide advice about increased inspection or enforcement and / or regulation changes as required	ACCWM	Advice provided to member boards	2018/19	Top	
C.4.A.5 If and as	Member boards	Recommendatio	2018/19	Top	

required, member boards provide recommendations to appropriate authorities		ns provided			
C.4.B.1 Compile and review information on capacity, roles and opportunities for community monitors. Include identification of existing programs	ACCWM WG and regional partners	Summary report	2017/18 2018/19	Top	Ongoing. Recent developments of NWT Guardians of the Land Programs may apply here.
C.4.B.2 Engage community organizations regarding potential opportunities for community monitors	ACCWM WG and regional partners	Summary of input and guidance	2018/19	Top	
C.4.B.3 Provide advice and ensure that mitigating advice provided in (C.2.3) includes roles for community monitors where appropriate	ACCWM	Advice provided to member boards	2018/19	Top	
C.4.B.4 If and as required, member boards provide recommendations	Member boards	Recommendations provided	2018/19	Top	

to appropriate authorities					
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D. Predators

D – 1. Review results of research programs that monitor predator abundance and predation rates
Objective – determine which predators impact caribou and the relative intensity of their impacts

Task	Partners	Performance Measure	Deliverable date	Priority level	Status
D.1.1 Gather, compile, review and present predator research and monitoring results to ACCWM (including community and scientific monitoring results)	ACCWM WG and government partners	Summary report Next steps: Jody to set up Dropbox for materials	2017/18 2018/19	Top	Ongoing Completed wolf feasibility assessment (Nov 2017)¹² KHTO: Wolf collaring is happening.
D.1.2 Engage community organizations to identify and prioritize research needs by region	ACCWM WG	Summary of input / guidance from communities	2017/18 2018/19	Top	Ongoing Research prioritization (GRRB & WMAC-NWT)
D.1.3 Identify and prioritize research needs based on information resulting from D.1.1 and D.1.2	ACCWM WG and government partners	Advice provided to ACCWM	2018/19	Top	

¹² <https://www.wrrb.ca/sites/default/files/FINAL%20Wolf%20Feasibility%20Assessment%20-%202010nov17.pdf>

D.1.4 ACCWM reviews and provides advice to member boards	ACCWM	Advice provided to member boards	2018/19	Top	
D.1.5 Member boards recommend research priorities to appropriate authorities	Member boards	Recommendations provided	2018/19	Top	
D – 2. Consider recommending options for predator management <i>Objective – review information from all partners to determine whether predator management is a viable option</i>					
D.2.1 Compile results from research regarding predator management / control programs	ACCWM WG and government partners	Literature review		Top	
D.2.2 Engage with other jurisdictions that have predator control experience		Information for summary report		Top	
D.2.3 Identify jurisdictional / regional rules and regulations around predator management		List of existing regulations and rules		Top	
D.2.4 Compile and review information from D.2.1-3		Summary report		Top	
D.2.5 Engage community organizations		Summary of input / guidance from		Top	

regarding potential options for predator management		communities			
D.2.6 ACCWM provides advice to member boards regarding options for predator management	ACCWM	Advice provided to member boards		Top	
D.2.7 If justified, member boards recommend predator management tools to appropriate authorities	Member boards	Recommendations provided, if needed		Top	

E. Harvest Management

E – 1. Resident, outfitter or commercial harvest remain closed¹³
Objective – limit licensed harvest to assist in herd recovery

Task	Partners	Performance Measure	Deliverable date	Priority level	Status
E.1.1 Based on results of discussions concerning a Total Allowable Harvest (TAH) and harvest	Member boards	Recommendations provided			Done

¹³ The process differs in Nunavut, where the Land Claim Agreement (1993) specifies that an Inuk “shall have the right to dispose freely to any person any wildlife lawfully harvested. This includes the right to sell, barter, exchange and give either inside or outside the Nunavut Settlement Area” (5.7.30).

ratios, member boards make and communicate recommendations to appropriate authorities					
E – 2. Review of mandatory limit for subsistence harvest for further reduction ¹⁴ <i>Objective – limit subsistence harvest to assist in herd recovery</i>					
E.2.A.1 Compile historical and current harvest information by region	Member boards and government partners	Summary documents			Done
E.2.A.2 Review information from preceding step with community organizations and advise regarding regional processes (e.g., public hearings)	Member boards and regional partners	Summary of input / guidance from communities			
E.2.A.3 Meetings to discuss and propose regional proportional allocations ¹⁵	Member boards and other traditional users	Provide percentages for inclusion in Action Plan			
E.2.B.1 Based on information	ACCWM	Proposed TAH and definition	Every year, following		

¹⁴ As strict conservation measures are needed areas with land claim agreements establish a Total Allowable Harvest (TAH). As circumstances require each ACCWM member (with the exception of the TNNPMB) will set the TAH for their region. When a herd is shared over land claim areas and/or areas without settled land claim agreements proportional allocations are set as to determine how the user groups will share the TAH.

¹⁵ The processes for determining Total Allowable Harvests and regional allocations are described in Appendix F.

presented at annual status meeting, ACCWM proposes a herd TAH and sex ratio		of majority bull harvest	annual status meeting		
E.2.B.2 ACCWM advises member boards regarding the proposed herd TAH, based on E.2.B.1	ACCWM	Proposed TAH provided to member boards			
E.2.B.3 Each member board consults with communities on regional TAH as required by their respective land claim agreements (including public hearings as required by respective land claim agreements)	Member boards	Summary of input / guidance from communities and related revisions			
E.2.B.4 Boards recommend TAH to Minister		Recommendations provided			
E – 3. Prioritize the collection of harvest information (see F – 1. Develop harvest monitoring program) <i>Objective – record accurate harvest information</i>					
E.3.1 Assess status of harvest reporting programs (see F – Monitoring) and	ACCWM WG with government partners and regional	Review report of existing programs		Top	

identify any roadblocks / challenges to success	partners				
E.3.2 Based on E.2.B.1-3, work with communities / partners to identify what additional support or cooperation is needed, and how best to provide it		Regional workshops as required		Top	
E.3.3 Adjust educational programming or communication plan if required (see A - Education)		Revised materials, as needed		Top	
E – 4. Recommend harvest of alternate species and meat replacement programs, and encourage increased sharing, trade and barter of traditional foods <i>Objective – explore other species to harvest to reduce pressure on caribou</i>					
E.4.1 Based on available information, identify alternate species populations whose status allows increases in harvest	ACCWM WG with government partners	List and rationale of potential alternate species / populations			<p>Ongoing work as part of community-based planning programs.</p> <p>ISR/GSA harvest reported through tag program; SSA harvest reporting plan being developed.</p> <p>Alternate harvests are being promoted regionally. In Nunavut there is a program to subsidize harvesting in Muskox, in the Sahtú alternate species are promoted for harvesting the GRRB is discussing options for commercial harvests.</p>

E.4.2 Engage community organizations to determine regionally appropriate species / populations and options for meat replacement programs	ACCWM WG	Summary of input / guidance from communities and related revisions			Ongoing
E.4.3 Based on information resulting from E.4.1 and E.4.2, develop list of regionally appropriate alternate species for harvest and options for meat replacement programs		List of alternate species and meat replacement options			To be completed by Communication/Education Working Group
E.4.4 ACCWM reviews list and provides advice to member boards	ACCWM	Advice provided to member boards			
E.4.5 Member boards recommend alternate species populations and / or meat replacement	Member boards	Recommendations provided			

programs to users. Collaborate with partners to recommend the development and funding of harvest or sharing programs (may include trade and barter, community hunts or freezers, etc.)					
E.4.6 Adapt existing Communication Plan and educational materials to better promote use of alternate species and meat replacement programs (see A – Education and Appendix C)	Education and Communication Working Group	Draft communication plan and education materials			
E – 5. Recommend increased enforcement including community monitors (see footnote clarifying monitoring and enforcement responsibilities at C – 4). <i>Objective – maximize approaches and tools to ensure compliance of regulations</i>					
E.5.1 Identify relevant agencies involved in inspection, enforcement and monitoring, and	ACCWM WG and other relevant agencies / partners	List of relevant agencies, regulations, and policies including summary	2017/18 2018/19	Top	Ongoing work as part of community-based planning programs.

prepare summary of regulations and policies they are operating from					
E.5.2 Engage community organizations and enforcement officers regarding enforcement approaches	ACCWM WG	Summary of input / guidance	2017/18 2018/19	Top	Ongoing.
E.5.3 Assess if current enforcement approaches and levels are adequate. Evaluate capacity, roles and opportunities (e.g., for community monitors)	ACCWM WG and regional partners	Summary report	2018/19	Top	
E.5.4 Based on information from E.5.1 - E.5.3, provide advice to member boards about increased enforcement and/or regulation changes as required	ACCWM	Advice provided to member boards	2018/19	Top	
E.5.5 Member boards provide	Member boards	Recommendations provided	2018/19	Top	

recommendations to government					
E.5.6 Engage partners to assist in training and implementing community monitoring programs	ACCWM WG	Funding plan, training program	2018/19	Top	

F. Monitoring					
F – 1. Develop a comprehensive harvest reporting program					
<i>Objective – develop or adapt existing harvest reporting programs to collect and provide standardized harvest data from all regions</i>					
Task	Partners	Performance Measure	Deliverable date	Priority level	Status
F.1.1 Compile and review information on existing harvest reporting programs and develop minimum standards	ACCWM WG	Summary report	2017/18 2018/19	Top	Ongoing.
F.1.2 Engage community organizations regarding appropriate programs for harvest data collection		Summary report	2018/19	Top	Ongoing.
F.1.3. Adapt harvest reporting		Finalized harvest	2018/19	Top	

programs based on information from F.1.1 and F.1.2. to standardize harvest data		reporting program			
F.1.4 Implement harvest data collection program	Member boards and government partners	Collections initiated	2018/19	Top	
F.1.5 Establish annual data reporting template		Template	2018/19	Top	
F.1.6 Adapt and / or develop database and protocols		Pilot database program developed	2018/19	Top	
F.1.7 Gather, compile and present total herd harvest data to ACCWM	ACCWM WG	Summary report	2018/19	Top	Ongoing.
F – 2. Develop and initiate community-based monitoring (CBM) programs (including observational and experiential data) <i>Objective – develop or adapt existing community-based monitoring programs to collect data in a format that can be used for decision-making</i>					
F.2.1 Compile and review information on existing community-based monitoring programs	ACCWM WG	Summary report			
F.2.2 Compile existing traditional knowledge documentation and identify any new	ACCWM WG with regional partners	Draft ‘state of traditional knowledge’ report(s)			

documentation / work required as basis for a community-based monitoring program					
F.2.3 Engage community organizations regarding appropriate programs for community-based monitoring to collect herd status information (see Table 1 in <i>Taking Care of Caribou</i>)	ACCWM WG	Summary of input / guidance from communities			
F.2.4 Adapt and / or develop CBM program(s) based on information from F.2.1-3		Finalized CBM program			
F.2.5 Recommend appropriate CBM programs including traditional knowledge studies	Member boards	Recommendations provided			
F.2.6 Establish data-sharing arrangements and / or information-sharing protocols	Member boards and regional partners	Signed data-sharing agreements			
F.2.7 Adapt and /	ACCWM WG	Database			

or develop database		program developed			
F.2.8 Gather, compile and present results to ACCWM	Regional partners	Summary report	Annual ACCWM meeting		
F – 3. Conduct scientific monitoring to assess herd status					
<i>Objective – develop or adapt existing scientific monitoring programs to collect data in a format that can be used for decision-making</i>					
F.3.1 Compile and review information on existing scientific monitoring programs	Government partners and regional partners	Summary report		Top	
F.3.2 Engage community organizations regarding appropriate programs for scientific monitoring to collect herd status information (see also F.2.3) and appropriate ways to collaborate	ACCWM WG	Summary of input / guidance from communities		Top	
F.3.3 Research and develop mechanism for collaboration between regions, compiling information and	ACCWM to determine responsible parties	Decide on mechanism for collaboration		Top	

reporting on research programs					
F.3.4 Construct scientific monitoring schedule based on engagement and Table 1 in <i>Taking Care of Caribou</i>	ACCWM WG	Annual report / work plan	Annual status meeting	Top	
F.3.5 Support appropriate scientific monitoring studies	Member boards	Approval by member boards	Annual status meeting	Top	
F.3.6 Establish information sharing protocols	Government partners	Information shared according to protocol		Top	Member boards & ACCWM will ask for clarity on releasing scientific information.
F.3.7 Gather, compile and present results to ACCWM		Status of all monitoring criteria communicated to the ACCWM	Annual status meeting	Top	

Acronyms used in this Plan

ACCWM (WG)	Advisory Committee for Cooperation on Wildlife Management (Working Group)
CI	Confidence Interval
DoE	Department of Environment, Government of Nunavut
ENR	Department of Environment and Natural Resources, GNWT
GN	Government of Nunavut
GNWT	Government of the Northwest Territories
GRRB	Gwich'in Renewable Resources Board
HTC	Hunters and Trappers Committee
HTO	Hunters and Trappers Organization
ISR	Inuvialuit Settlement Region
NWMB	Nunavut Wildlife Management Board
NWT	Northwest Territories
PCA	Parks Canada Agency
RRC	Renewable Resources Council
SE	Standard Error
TAH	Total Allowable Harvest
TG	Tłıchq Government
TNNPMB	Tuktut Nogait National Park Management Board
TOR	Terms of Reference
WEMP	Wildlife Effects Monitoring Plan
WMAC (NWT)	Wildlife Management Advisory Council (Northwest Territories)
WWHPP	Wildlife and Wildlife Habitat Protection Plans

Appendix A: List of ACCWM Working Group members

The ACCWM formed a working group to draft the Action Plans that accompany the *Taking Care of Caribou* Management Plan. The Working Group included representatives of the following organizations:

- ʔehdzo GotʼInę Gotsʼé Nákedı (Sahtú Renewable Resources Board)
- Dehcho First Nations¹⁶
- Department of the Environment, Government of Nunavut
- Environment and Natural Resources (ENR), GNWT
- Gwichʼin Renewable Resources Board
- Inuvialuit Game Council
- Kitikmeot Regional Wildlife Board
- Kugluktuk Hunters and Trappers Organization (Kugluktuk Angoniatit Association)
- Nunavut Wildlife Management Board
- Parks Canada Agency
- Tłı̄chǝ Government
- Tukturnogait National Park Management Board
- Wekʼèezhı̄ Renewable Resources Board
- Wildlife Management Advisory Council (NWT).

¹⁶ The Dehcho First Nations organization is part of the Working Group, but has had very limited involvement. There is an outstanding invitation for them to join the ACCWM.

Appendix B: Summary table of management actions presented in *Taking Care of Caribou*

Management Actions Based on Herd Status/Colour Zone				
Management Action	The population level is intermediate and increasing	The population level is high	The population level is intermediate and decreasing	The population level is low
Education	<p>Recommend education programs for all status levels. Ideas for educational themes include:</p> <ul style="list-style-type: none"> • Promoting total use of harvested caribou, and proper butchering and storage methods; • Limiting wounding loss; • Letting the leaders pass; • Promoting community hunts with experienced hunters; • Use of alternate species; and • Increased sharing of traditional foods. 			
Habitat	<ul style="list-style-type: none"> • Identify and recommend protection for key habitat areas; • Review results of monitoring, including cumulative effects, to ensure enough habitat is available and caribou are able to move between areas of good habitat; • Recommend important habitat as a 'value at risk' for forest fire management. 			
Land use activities	<ul style="list-style-type: none"> • Review results of cumulative effects monitoring programs; • Provide advice on mitigation of industrial impacts to proponents and regulators. 	<ul style="list-style-type: none"> • Review results of cumulative effects monitoring programs; • Provide advice on mitigation of the impacts of exploration and development activities to proponents and regulators. 	<ul style="list-style-type: none"> • Review results of cumulative effects monitoring programs; • Provide advice on mitigation of industrial impacts to proponents and regulators; • Provide active and accessible communication and recommend education programs for all including proponents and airlines; • Recommend increased enforcement of land use regulations, including community monitors. 	<ul style="list-style-type: none"> • Work directly with proponents and regulators of exploration and development activities to advise on mitigation measures; • Review results of cumulative effects monitoring programs; • Provide active and accessible communication and recommend education programs for all including proponents and airlines; • Recommend increased enforcement of land use regulations, including community monitors.

Management Actions Based on Herd Status/Colour Zone

Management Action	The population level is intermediate and increasing	The population level is high	The population level is intermediate and decreasing	The population level is low
Predators	<ul style="list-style-type: none"> Continue research programs to monitor predator condition (e.g., carcass collection and community monitoring programs). 	<ul style="list-style-type: none"> Continue research programs to monitor predator condition (e.g., carcass collection and community monitoring programs). 	<ul style="list-style-type: none"> Review results of research programs that monitor predator abundance and predation rates; Consider recommending options for predator management. 	<ul style="list-style-type: none"> Review results of research programs that monitor predator abundance and predation rates; Consider recommending options for predator management.
Harvest	<ul style="list-style-type: none"> Recommend easing limits on subsistence and then resident harvests ; Consider recommending outfitter and commercial harvests at discretion of the ACCWM. 	<ul style="list-style-type: none"> Support harvest by beneficiaries of a Land Claim and members of an Aboriginal people, with rights to harvest wildlife in the Region; Recommend that if subsistence needs are met resident harvest should be permitted (with limits); Potentially recommend resident (non-beneficiary), non-resident, sport hunts, and/or commercial harvests. 	<ul style="list-style-type: none"> Recommend a mandatory limit on subsistence harvest based on a TAH accepted by the ACCWM; Prioritize the collection of harvest information; Recommend no resident, outfitter or commercial harvest; Recommend a majority-bulls harvest, emphasizing younger and smaller bulls and not the large breeders and leaders; Recommend harvest of alternate species and encourage increased sharing, trade and barter of traditional foods, such as the use of community freezers; Recommend increased enforcement including community monitors. 	<ul style="list-style-type: none"> Recommend harvest of alternate species and meat replacement programs, and encourage increased sharing, trade and barter of traditional foods; Prioritize the collection of harvest information; Review of mandatory limit for subsistence harvest for further reduction; Recommend increased enforcement including community monitors; Resident, commercial, or outfitter harvest remain closed.