

CAPE BATHURST CARIBOU - RED STATUS -



Tuktuvialuk (Inuvialuktun, Siglitun dialect)
Vadzaih (Teetł'it and Gwichya Gwich'in)

Prepared by the Advisory Committee for Cooperation on Wildlife Management

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Advisory Committee for Cooperation on Wildlife Management c/o Wek'èezhìı Renewable Resources Board 102 A 4504 49th Avenue, Yellowknife, NT X1A 1A7 Tel.: (867) 873-5740 Fax: (867) 873-5743 Email: jpellissey@wrrb.ca

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, ?ehdzo Got'ınę Gots'ę Nákedı (Sahtú Renewable Resources Board), Wek'èezhìı 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 Cape Bathurst, Bluenose-West, and Bluenose-East barren-ground caribou herds management plan*. The Plan was developed in consultation with most of the 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 CB herd can be found in Table 2.

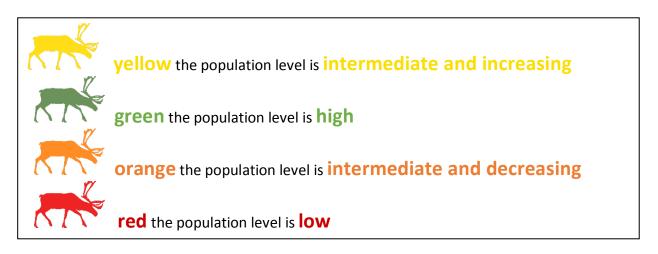


Figure 1: Phases of the population cycle with the colour-coded "traffic light" approach used in the Management Plan and associated Action Plans.

Time (population cycle approximately 30 to 60 years)

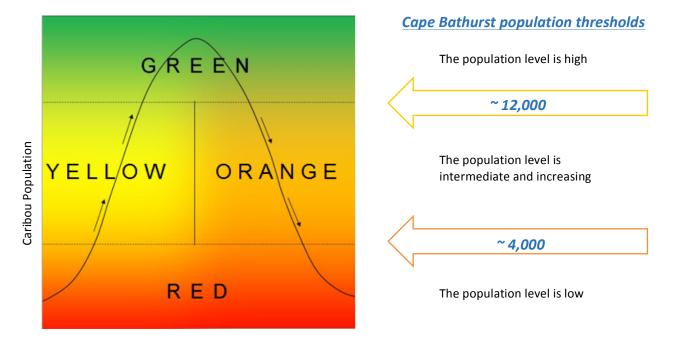


Figure 2: Phases of the population cycle with the colour-coded "traffic light" approach used in the Management Plan and associated Action Plans.

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 Cape Bathurst 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.

Based on the information provided, the ACCWM determined the Cape Bathurst herd status colour zone to be **red (low)** in November 2018. The ACCWM noted that while the population appears to be slowly recovering based on the numbers presented by the Department of Environment and Natural Resources (ENR) the confidence interval from ENR's survey indicates that there is still a possibility that the herd is still declining. Given that there are concerns about increased hunting pressure along the Inuvik-Tuktoyaktuk Highway and the potential use of

Bluenose-West caribou tags for harvesting Cape Bathurst caribou in the areas where the ranges of the two herds overlap, the ACCWM felt that the status for the herd should remain **red** (low) as precautionary measure despite the possibility that the population numbers may be above low threshold.



In 2018/19

the Cape Bathurst caribou population status is

RED: low

Table 1: Criteria used to assess Cape Bathurst herd status in 2018.1

Criteria	Community-Based Information	Scientific Information	Comments
Population size	Tuktoyaktuk (WMAC): noted in the past 4 years have seen more caribou than prior to 5 years ago, and last year was more. Inuvik members noted it is the same as last year. 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.	Estimated number of adult caribou at least 1.5 year old in 2018 Rivest: 4,521 ± 875	Estimated based on July post-calving ground survey It is believed that the 2018 population is biased high because there were some bulls that did not clump up with the main group. The distribution pattern was not normal with small groups of bulls not joining the herd.
Population trend and rate of change	Tuktoyaktuk (WMAC): community members are seeing a few more caribou and the caribou bunches/herds are getting bigger compared to last year Inuvik (GRRB): From preliminary results, it seems that the population has increased.	There is no significant increase per year between 2005 and 2018 (Confident Interval [CI] -3 to 10%).	TAH based on 4% of 2006 LP population

¹ This table is populated with information presented to the ACCWM to assess herd status in 2018 and is adapted from the monitoring criteria table included in *Taking Care of Caribou*.

			2015: 2,524 ± 284 2012: 2,447 ± 350 2009: 2,925 ± 1,252 2006: 2,039 ± 319 2005: 3,566 ± 1,373
Productivity and recruitment	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.	No new information since 2017. In 2017, there were a high number of cows with calves in early April. Estimated number of calves per 100 cows in 2017: 48.2 ± 3.8 (95% CI)	2017 recruitment survey included both Cape Bathurst and Tuktoyaktuk Peninsula herds.
Adult composition	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. There are less community observations because people were not able to get out this fall due to bad weather.	No new information since 2015 There is only one bull to cow ratio for Cape Bathurst (2015) so trend is unknown but the 2015 results is considered normal. Estimated number of bulls per 100 cows in 2015: 43 ± 4.6 (SE)	The bull ratio is monitored because a bull dominated harvest was recommended.
Body condition and health	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.	season was 1.42 cm (range 0 to 4 cm) for cows and 0.71 cm	Scientific information based on harvester reported samples for Tuk Peninsula and Cape Bathurst herds. Condition information was reported for 70 cows and 34 bulls, back fat information was reported for 80 cows and 26 bulls in the 2017/2018 season.
	Inuvik (WMAC): Community members observed that not many of the caribou had nose bots.		

	Tuktoyaktuk (WMAC): harvesters	I/BC/07 is a closed zone for	In 2014/15, the
	noted that there are less people	Cape Bathurst	I/BC/06 area was
Harvest	were able to get out for the fall	171 I/BC/06 tags possibly used	enlarged and now
levels	harvest (boating season) this year	in TP/CB area in 2017/2018–	includes some of the
	because of the weather; the first	(134 of those have reported	winter range of the
	harvesters out see the most	sex: 46 males, 75 females)	Tuk Peninsula and
	during both the fall boat harvest	isex. 40 iliales, 75 leiliales)	Cape Bathurst herds.
	and snow machine harvest after		
			Some of the I/BC/06
	freeze up; it is harder to harvest		tags are now being used on these herds
	by ATV because the caribou are		used on these herds
	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.		
	Inuvik (WMAC): community		
	members stated this year all the		
	tags were filled. The HTC		
	increased the per household		
	allotment from 3 to 5 to		
	encourage harvest; there is		
	concern about people selling dry		
	meat on facebook; CBMP should		
	be able to provide harvest data;		
	there was a community harvest		
	last year, 25 caribou were taken		
	that was a mix with mostly bulls.		
	Inuvik (GRRB): There is poaching		
	of Cape-Bathurst caribou on the		
	ітн.		
D	Tuktoyaktuk (WMAC):	Tuktoyaktuk and Inuvik	Changes in wolf
Predator	community members think there	submitted 30 wolves in the	harvest does not
populations	are always predators around	17/18 season.	necessarily reflect
	(grizzlies, wolverines, wolves);	,	changes in wolf
	16		

	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. Inuvik (WMAC): community members observed lots of small grizzly bears.	Of the wolf stomach content analyzed, 68% was caribou.	abundance.
	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. 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.	In 2018, 16 CB collars were still active from 2017 and all returned to CB calving ground.	
	Inuvik (GRRB): People used to see caribou around Inuvik when growing up (around 30 years ago). Now there is none. The Cape Bathurst caribou hangs out around Husky lakes in winter.		
	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	ENR is not currently conduction any range work on the Cape Bathurst range. There were very few fires in the 2018 season.	

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. Inuvik (WMAC): community members noted there was rain on the snow this winter. Inuvik (GRRB): Climate change is changing a lot of things. There is more thawing, it's warm and wet. It used to be colder (a long time ago). Now, it's still 2-3 degrees in September. Lots of landslides around Caribou hills north of Inuvik. Tuktoyaktuk (WMAC): The largest development in Human community members stated there the range of the Cape Bathurst disturbance are lots of helicopters and planes herd is the Inuvik flying around, end of June/early Tuktoyaktuk highway that July, up the peninsula past opened in November 2017 and Campbell Island; Caribou are more passes through the winter startled by noise (i.e. ATV) than range of the herd. they used to be. 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. Inuvik (GRRB): The highway makes it easier to poach Cape-Bathurst caribou. Numbers seems to have gone up, but there is still concerns about poaching along the ITH.

Red Status Management Actions for Cape Bathurst 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. Please refer to 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 Cape Bathurst herd is **red** (low), 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.

Management Actions Table for Cape Bathurst Caribou: Red 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. Education²

A – 1. Develop education strategy

Objective – address community concerns regarding a lack of education (see various themes identified in **Taking Care of Caribou**) and clarify an approach

Task	Partners ³	Performance Measure	Deliverable date	Priority level ⁴	Status November 2018 – plans for 19/20
A.1.1 Strike an Education and Communication Working Group	ACCWM and government partners ⁵	Education and Communication Working Group meeting	2017/18	Тор	Done
A.1.2 Develop a Terms of Reference	ACCWM Working Group	Finalized TOR, approved by ACCWM	2017/18	Тор	Approved (2018)
A.1.3 Determine existing materials, programs, gaps, and opportunities for collaboration	Education and Communicati on Working	List of existing materials and programs, and opportunities for	2017/18 2018/19	Тор	Ongoing; Dropbox with existing materials has been created.

² Education specific to industrial land uses is dealt with in section C – Land Use Activities (C.3.1 and C.3.2).

³ Potential partners have been identified for individual tasks. Leads on tasks may vary, and will be determined at a later date.

⁴ 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 'Ton' priority in the table. Further

	Group	collaboration			
A.1.4 Engage community	Education	Summary of input	Every year	Тор	Input from annual community tours
organizations ⁶ for input on	and	/ guidance from	before		
educational strategy	Communicati	communities and	annual		
	on Working	related revisions	status		
	Group, with		meeting		
	assistance				
	from				
	ACCWM				
A.1.5 Develop educational	Education	Document	2017/18	Тор	The strategy is done (2018).
strategy, allowing for	and	outlining strategy	2018/19		
regional differences	Communicati				Ask for ACCWM guidance on priorities (e.g.,
	on Working				Respect, Wounding, Why ACCWM?)
	Group				
A.1.6 ACCWM reviews	ACCWM	Advice provided	2018/19	Тор	
educational strategy and		to member boards			
provides advice to					
member boards ⁷ for					
approval					
A.1.7 Implementation of	Member	Summary report	2018/19	Тор	The strategy is was discussed at the 2018
educational strategy	boards,		and		meeting.
	government		onwards		
	partners and				

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⁶ 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.

⁷ 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, ?ehdzo Got'ınę Gots'é Nákedı (Sahtú Renewable Resources Board), Wek'èezhìı Renewable Resources Board, Kitikmeot Regional Wildlife Board, and Tuktut Nogait National Park Management Board.

	regional				
	partners ⁸				
A – 2. Develop education m	aterials				
Objective – address commu	nity concerns reg	garding a lack of educ	cation on sust	ainable and re	espectful use, as well as caribou ecology
A.2.1 Develop draft materials based on results of A.1.3 and A.1.4	Education and Communicati on Working Group	Draft education materials	2018/19	Тор	Several materials have been developed by the Communications and Education Working Group. This includes, thank you notes and posters, post cards, shooting targets, etc. WMAC (NWT): Sent out Thank you posters for the 2018 community input ENR provided an animated map of herd movements that was useful as a decision-making tool. This should be updated yearly.
A.2.2 Engage community organizations regarding types of materials and distribution		Summary of input / guidance from communities and related revisions	2018/19	Тор	making tool. This should be updated yearly.
A.2.3 Revise and distribute materials		Send finalized educational materials	2018/19	Тор	
A – 3. Community education Objective – address commun wounding loss and improve	nity concerns reg	garding a lack of educ	cation on sust	ainable and re	espectful use, as well as caribou ecology. Limit
A.3.1 Develop events /	Education	Develop 1-3			
programs based on results of A.1.3 and A.1.4	and Communicati	workshop curricula /			
OI A.1.3 dilu A.1.4	on Working Group, with assistance	programs			

⁸ Regional partners, which vary significantly by region, may include individual community members, community organizations, such as RRCs/HTCs/HTOs, and regional organizations.

	f		1		
	from				
	ACCWM WG				
	and regional				
	partners	_			
A.3.2 Engage community	Education	Summary of input			
organizations regarding	and	/ guidance from			
type and timing of	Communicati	communities and			
workshops in each region	on Working	related revisions			
	Group, with				
	assistance				
	from				
	ACCWM WG				
A.3.3 Deliver workshops /	Education	Minimum target:			
events	and	delivery of one			
	Communicati	workshop / event			
	on Working	per region, per			
	Group, with	year			
	community	year			
A.3.4 Hold sight in your	organizations	Minimum target:		Тор	
rifle events	and	delivery of one			
	government	workshop / event			
	partners	per region, per			
		year			
A – 4. School and youth edu	cation events / p	orograms			
Objective – address commu	nity concerns reg	garding need for educ	ation and eng	agement of yo	uth. Increase knowledge transfer between elders
and youth	·				
A.4.1 Adapt education	Education	Education			WMAC went into the schools and did a sex ID
materials (developed in A	and	packages for			presentation with the kids.
– 2) for school use (at	Communicati	community			
elementary and high	on Working	agency /			
school levels)	Group	organization use			
A.4.2 Adapt community	1	Draft youth-			
education programs /		focused workshop			
events (developed in A –		curricula /			
	1	· · · · · · · · · · · · · · · · · · ·	1		

3) for use in school and youth-focused settings appropriate for each community and region (e.g., back to the land camps)		programs		
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 Objective – address community concerns that key habitat areas are not protected sufficiently							
Task	Partners	Performance	Deliverable	Priority	Status		
		Measure	date	level			
B.1.1 Compile and	Government	Compilation of	2017/18	Тор	Ongoing.		
review ENR	partners and	existing	2018/19				
Technical Report,	ACCWM WG	materials		Inuvialuit Community Conservation Plans were updated;			
SARC BGC Status					Section 8 of the IFA affords some protection to Cape		
report, land use		Next steps:					

plans, results of monitoring programs, etc. for information		Jody will create a Dropbox for people to add materials			Bathurst.		
B.1.2 Engage community organizations for identification of key habitat areas	ACCWM WG	Summary of input / guidance from communities	2017/18 2018/19	Тор	Ongoing. WMAC and IGC formed working group re: calving grounds with HTCs.		
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	Тор	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.		
B.1.4 ACCWM reviews sensitive habitat report and provides advice to member boards for approval	ACCWM	Advice provided to member boards	2018/19	Тор			
B.1.5 Member boards make and communicate recommendations to appropriate authorities	Member boards	Recommendatio ns provided	2018/19	Тор			
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 Objective – ensure research and monitoring programs are relevant and addressing current information needs for habitat management							
B.2.1 Map and track landscape disturbances	Government partners	Compilation map			GNWT 'Inventory of Landscape Change' being updated 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 recommendations	Member boards	Recommendatio ns provided		

to appropriate authorities									
B – 3. Recommend ir	B – 3. Recommend important habitat as a 'value at risk' for forest fire management								
Objective – ensure su	•								
B.3.1 Based on	ACCWM	Key areas							
results of B – 1 and		identified for							
as results of B – 2		fire							
are available,		management							
provide advice to		and advice							
member boards on		provided to							
values at risk		member boards							
B.3.2 Member	Member boards	Recommendatio							
boards make and		ns provided							
communicate									
recommendations									
to fire									
management									

C. Land use activities

C – 1. Review results of cumulative effects monitoring programs

Objective – ensure cumulative effects monitoring programs are operational and relevant

Task	Partners	Performance	Deliverable	Priority	Status
		Measure	date	level	
C.1.1 Building on	ACCWM WG	Summary report			
work done in	and government				
Habitat (B – 2),	partners				
identify and review					
recent relevant					
information (e.g.,					
CIMP, ENR, DOE)					
C.1.2 Identify and /		List of gaps			
or review any gaps		identified.			

or previous gaps assessments		Collation of previous gap					
assessificites		assessments					
C.1.3 ACCWM	ACCWM	Advice provided					
reviews		to member					
information and		boards					
provides advice for							
research and							
monitoring based							
on information							
from C.1.1 and							
C.1.2						 	
C.1.4 Member	Member boards	Recommendatio					
boards make and		ns provided					
communicate							
recommendations							
to appropriate							
authorities							
C – 2. Provide advice				nd regulator	rs		
Objective – minimize			r nabitat		I		
C.2.1 Identify	ACCWM WG	List of					
parties involved in	and other	regulators,					
industrial activities	relevant	proponents,					
on a herd's range	agencies /	active					
(e.g., regulators,	partners (e.g., Land and Water	developers					
proponents and							
active developers)	Boards, ILA) ACCWM WG	Summary of					
C.2.2 Engage community	ACCWINI WG	input / guidance					
organizations to		from					
identify land use		communities					
concerns and how		and current					
they should be		regulatory					
addressed. Engage		protocols					
addicosca. Engage	l	p. 0 t0 t0 i5			l		

		I						
with regulators to								
identify any								
existing protocols								
C.2.3 Identify and /	ACCWM WG,	Recommendatio						
or develop	regional and	ns provided						
mitigating advice	government							
and / or	partners							
recommendations,								
targeted to specific								
audiences,								
including								
standards provided								
in <i>Taking Care of</i>								
Caribou (Appendix								
G)								
C.2.4 ACCWM	ACCWM	Advice provided						
reviews		to member						
information and		boards						
advises member								
boards								
C.2.5 Member	Member boards	Recommendatio						
boards make and		ns provided;						
communicate		results of C.2.2						
recommendations		and herd status						
to proponents		provided						
(including air								
carriers and other								
subcontractors)								
and regulators,								
including updates								
on herd status and								
sensitive habitat								
report								
C - 3. Provide active	and accessible con	nmunication and re	commend edu	cation prog	grams for all,	ncluding propo	nents and airli	nes

Objective – address	concerns regarding	land use activities	impacting cari	bou habitat	t, and a lack of information on best practices / mitigating
advice	3 3		, 3		
C.3.1 Develop and	Education and	Draft materials		Тор	
/ or adapt existing	Communication				
education	Working Group	Next steps: The			
packages specific		working group			
to proponents,		create fact			
regulators, air		sheets based			
carriers and any		on existing			
other users not		materials to			
already covered by					
actions in A –		educate			
Education, and C –		groups about			
1 and C – 2		what the			
(recreational,		conditions are.			
traffic)					
C.3.2		Finalized		Тор	
Communicate		materials sent			
educational		out			
materials					
developed in C.3.1					
C – 4. Recommend ir				_	
	and track effective	ness of enforcemen	it, and ensure o	community	monitoring programs have a role in supporting application of
land use regulations		1		1	
C.4.A.1 Identify	ACCWM WG	List of relevant	2017/18	Тор	Ongoing. GNWT Lands, Regional Land & Water Boards
relevant agencies	and other	agencies and	2018/19		(provide conditions), EISC, EIRB, ILA, ENR, and GN.
involved in	relevant	regulations			
inspection,	agencies /				
enforcement and	partners (e.g.,	Next steps:			

⁹ 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.

monitoring	Land and Water Boards, ILA)	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	Тор	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	Тор	
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	Тор	
C.4.A.5 If and as required, member	Member boards	Recommendatio ns provided	2018/19	Тор	

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

authorities

D. Predators

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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	Deliverable	Priority	Status
		Measure	date	level	
D.1.1 Gather,	ACCWM WG	Summary report	2017/18	Тор	Ongoing
compile, review	and government		2018/19		
and present	partners	Next steps:			Completed wolf feasibility assessment (Nov 2017) ¹⁰
predator research		Jody to set up			
and monitoring		Dropbox for			
results to ACCWM		materials			
(including					
community and					
scientific					
monitoring results)					
D.1.2 Engage	ACCWM WG	Summary of	2017/18	Тор	Ongoing
community		input / guidance	2018/19		
organizations to		from			Research prioritization (GRRB & WMAC-NWT)
identify and		communities			
prioritize research					
needs by region					
D.1.3 Identify and	ACCWM WG	Advice provided	2018/19	Тор	
prioritize research	and government	to ACCWM			
needs based on	partners				
information					
resulting from					
D.1.1 and D.1.2					
D.1.4 ACCWM	ACCWM	Advice provided	2018/19	Тор	

¹⁰ https://www.wrrb.ca/sites/default/files/FINAL%20Wolf%20Feasibility%20Assessment%20-%2010nov17.pdf

reviews and		to member			
provides advice to		boards			
member boards					
D.1.5 Member	Member boards	Recommendatio	2018/19	Тор	
boards		ns provided	-		
recommend					
research priorities					
to appropriate					
authorities					
D – 2. Consider reco	mmending options	for predator manag	gement		
Objective – review in	formation from all	partners to determ	ine whether pi	redator mar	nagement is a viable option
D.2.1 Compile	ACCWM WG	Literature		Тор	
results from	and government	review			
research regarding	partners				
predator					
management /					
control programs					
D.2.2 Engage with		Information for		Тор	
other jurisdictions		summary report			
that have predator					
control experience					
D.2.3 Identify		List of existing		Тор	
jurisdictional /		regulations and			
regional rules and		rules			
regulations around					
predator					
management					
D.2.4 Compile and		Summary report		Тор	
review information					
from D.2.1-3					
D.2.5 Engage		Summary of		Тор	
community		input / guidance			
organizations		from			
regarding potential		communities			

options for predator management				
D.2.6 ACCWM provides advice to member boards regarding options for predator management	ACCWM	Advice provided to member boards	Тор	
D.2.7 If justified, member boards recommend predator management tools to appropriate authorities	Member boards	Recommendatio ns provided, if needed	Тор	

E. Harvest Management

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

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

¹¹ 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).

r	r	1		ı	
boards make and					
communicate					
recommendations					
to appropriate					
authorities					
E – 2. Review of man	datory limit for sub	osistence harvest fo	r further redu	ction ¹²	
Objective – limit sub					
E.2.A.1 Compile	Member boards	Summary			
historical and	and	documents			
current harvest	government				
information by	partners				
region					
E.2.A.2 Review	Member boards	Summary of			
information from	and regional	input / guidance			
preceding step	partners	from			
with community		communities			
organizations and					
advise regarding					
regional processes					
(e.g., public					
hearings)					
E.2.A.3 Meetings	Member boards	Provide			
to discuss and	and other	percentages for			
propose regional	traditional users	inclusion in			
proportional		Action Plan			
allocations ¹³					
E.2.B.1 Based on	ACCWM	Proposed TAH	Every year,		
information		and definition	following		
presented at		of majority bull	annual		

¹² As strict conservations 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.

¹³ The processes for determining Total Allowable Harvests and regional allocations are described in Appendix F.

		Г		1	
annual status		harvest	status		
meeting, ACCWM			meeting		
proposes a herd					
TAH and sex ratio					
E.2.B.2 ACCWM	ACCWM	Proposed TAH			
advises member		provided to			
boards regarding		member boards			
the proposed herd					
TAH, based on					
E.2.B.1					
E.2.B.3 Each	Member boards	Summary of			
member board		input /			
consults with		guidance from			
communities on		communities			
regional TAH as		and related			
required by their		revisions			
respective land					
claim agreements					
(including public					
hearings as					
required by					
respective land					
claim agreements)					
E.2.B.4 Boards		Recommendatio			
recommend TAH		ns provided			
to Minister					
E – 3. Prioritize the c	ollection of harves	t information (see F	– 1. Develop	harvest mo	nitoring program)
Objective – record ac	ccurate harvest info	ormation			
E.3.1 Assess status	ACCWM WG	Review report of		Тор	
of harvest	with	existing			
reporting	government	programs			
programs (see F –	partners and				
Monitoring) and	regional				
identify any	partners				
	•	1	1	l	

roadblocks /					
roadblocks /					
challenges to					
success				_	
E.3.2 Based on		Regional		Тор	
E.2.B.1-3, work		workshops as			
with communities		required			
/ partners to					
identify what					
additional support					
or cooperation is					
needed, and how					
best to provide it					
E.3.3 Adjust		Revised		Тор	
educational		materials, as			
programming or		needed			
communication					
plan if required					
(see A - Education)					
E – 4. Recommend h	arvest of alternate	species and meat r	eplacement pr	ograms, an	d encourage increased sharing, trade and barter of traditional
foods					
Objective – explore o	other species to har	vest to reduce press	sure on caribou	I	
E.4.1 Based on	ACCWM WG	List and			Ongoing work as part of community-based planning
available	with	rationale of			programs
information,	government	potential			
identify alternate	partners	alternate			
species		species /			
populations whose		populations			
status allows					
increases in					
harvest					
E.4.2 Engage	ACCWM WG	Summary of			
community		input /			
organizations to		guidance from			
determine		communities			
	I	1	l .		

regionally		and related			
appropriate		revisions			
species /		TCVISIONS			
populations and					
options for meat					
replacement					
programs E.4.3 Based on		List of alternate			
information					
		species and			
resulting from		meat			
E.4.1 and E.4.2,		replacement			
develop list of		options			
regionally					
appropriate					
alternate species					
for harvest and					
options for meat					
replacement					
programs					
E.4.4 ACCWM	ACCWM	Advice provided			
reviews list and		to member			
provides advice to		boards			
member boards					
E.4.5 Member	Member boards	Recommendatio			
boards		ns provided			
recommend					
alternate species					
populations and /					
or meat					
replacement					
programs to users.					
Collaborate with					
partners to					
recommend the					

					I
development and					
funding of harvest					
or sharing					
programs (may					
include trade and					
barter, community					
hunts or freezers,					
etc.)					
E.4.6 Adapt	Education and	Draft			
existing	Communication	communication			
Communication	Working Group	plan and			
Plan and		education			
educational		materials			
materials to better					
promote use of					
alternate species					
and meat					
replacement					
programs (see A –					
Education and					
Appendix C)					
E – 5. Recommend ir	ncreased enforcem	ent including comm	nunity monitor	s (see footr	note clarifying monitoring and enforcement responsibilities at
C – 4).					
Objective – maximiz	e approaches and t	ools to ensure comp	oliance of regu	lations	
E.5.1 Identify	ACCWM WG	List of relevant	2017/18	Тор	Ongoing.
relevant agencies	and other	agencies,	2018/19		
involved in	relevant	regulations, and			
inspection,	agencies /	policies			
enforcement and	partners	including			
monitoring, and		summary			
prepare summary					
of regulations and					
policies they are					
operating from					
enforcement and monitoring, and prepare summary of regulations and policies they are	_	including			

E.5.2 Engage community organizations and enforcement officers regarding enforcement approaches	ACCWM WG	Summary of input / guidance	2017/18 2018/19	Тор	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	Тор	
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	Тор	
E.5.5 Member boards provide recommendations to government	Member boards	Recommendatio ns provided	2018/19	Тор	
E.5.6 Engage partners to assist	ACCWM WG	Funding plan, training	2018/19	Тор	

in training and	program			
implementing				
community				
monitoring				
programs				

F. Monitoring

F – 1. Develop a comprehensive harvest reporting program

Objective – develop or adapt existing harvest reporting programs to collect and provide standardized harvest data from all regions

Task	Partners	Performance	Deliverable	Priority	Status
		Measure	date	level	
F.1.1 Compile and	ACCWM WG	Summary report	2017/18	Тор	Ongoing.
review information			2018/19		
on existing harvest					
reporting					
programs and					
develop minimum					
standards					
F.1.2 Engage		Summary		Тор	Ongoing.
community		report	2018/19		
organizations					
regarding					
appropriate					
programs for					
harvest data					
collection					
F.1.3. Adapt		Finalized	2018/19	Тор	
harvest reporting		harvest			
programs based on		reporting			
information from		program			
F.1.1 and F.1.2. to					
standardize					

harvest data					
F.1.4 Implement	Member boards	Collections	2018/19	Тор	
harvest data	and	initiated			
collection program	government				
F.1.5 Establish	partners	Template	2018/19	Тор	
annual data					
reporting template					
F.1.6 Adapt and /		Pilot database	2018/19	Тор	
or develop		program			
database and		developed			
protocols					
F.1.7 Gather,	ACCWM WG	Summary report	2018/19	Тор	Ongoing.
compile and					
present total herd					
harvest data to					
ACCWM					
				_	observational and experiential data)
			pnitoring progi	rams to coll	ect data in a format that can be used for decision-making
F.2.1 Compile and	ACCWM WG	Summary report			
review information					
on existing					
community-based					
monitoring					
programs					
F.2.2 Compile	ACCWM WG	Draft 'state of			
existing traditional	with regional	traditional			
knowledge	partners	knowledge'			
documentation		report(s)			
and identify any					
new					
documentation /					
work required as					
basis for a					
community-based					

monitoring				
program				
F.2.3 Engage	ACCWM WG	Summary of		
community	ACCVIVI VVG	input /		
•		guidance from		
organizations		communities		
regarding		communities		
appropriate				
programs for				
community-based				
monitoring to				
collect herd status				
information (see				
Table 1 in <i>Taking</i>				
Care of Caribou)	-			
F.2.4 Adapt and /		Finalized CBM		
or develop CBM		program		
program(s) based				
on information				
from F.2.1-3				
F.2.5 Recommend	Member boards	Recommendatio		
appropriate CBM		ns provided		
programs including				
traditional				
knowledge studies				
F.2.6 Establish	Member boards	Signed data-		
data-sharing	and regional	sharing		
arrangements and	partners	agreements		
/ or information-				
sharing protocols				
F.2.7 Adapt and /	ACCWM WG	Database		
or develop		program		
database		developed		
F.2.8 Gather,	Regional	Summary report	Annual	
compile and	partners		ACCWM	

present results to			meeting		
ACCWM					
F – 3. Conduct scient	ific monitoring to a	assess herd status			
Objective – develop	or adapt existing so	ientific monitoring	programs to co	ollect data i	in a format that can be used for decision-making
F.3.1 Compile and	Government	Summary report		Тор	
review information	partners and				
on existing	regional				
scientific	partners				
monitoring					
programs					
F.3.2 Engage	ACCWM WG	Summary of		Тор	
community		input /			
organizations		guidance from			
regarding		communities			
appropriate					
programs for					
scientific					
monitoring to					
collect herd status					
information (see					
also F.2.3) and					
appropriate ways					
to collaborate					
F.3.3 Research and	ACCWM to	Decide on		Тор	
develop	determine	mechanism for			
mechanism for	responsible	collaboration			
collaboration	parties				
between regions,					
compiling					
information and					
reporting on					
research programs				_	
F.3.4 Construct	ACCWM WG	Annual report /	Annual	Тор	
scientific		work plan	status		

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

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 Tłycho 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:

- ?ehdzo Got'jnę Gots'ę Nákedi (Sahtú Renewable Resources Board)
- Dehcho First Nations¹⁴
- Department of the Environment, Government of Nunavut
- Environment and Natural Resources (ENR), GNWT
- Gwich'in 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
- Tłycho Government
- Tuktut Nogait National Park Management Board
- Wek'èezhìi Renewable Resources Board
- Wildlife Management Advisory Council (NWT).

¹⁴ 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	Recommend education programs for all status levels. Ideas for educational themes include: • 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	 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	 Review results of cumulative effects monitoring programs; Provide advice on mitigation of industrial impacts to proponents and regulators. 	 Review results of cumulative effects monitoring programs; Provide advice on mitigation of the impacts of exploration and development activities to proponents and regulators. 	 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. 	 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 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	Continue research programs to monitor predator condition (e.g., carcass collection and community monitoring programs).	Continue research programs to monitor predator condition (e.g., carcass collection and community monitoring programs).	 Review results of research programs that monitor predator abundance and predation rates; Consider recommending options for predator management. 	 Review results of research programs that monitor predator abundance and predation rates; Consider recommending options for predator management.
Harvest	Recommend easing limits on subsistence and then resident harvests; Consider recommending outfitter and commercial harvests at discretion of the ACCWM.	 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. 	 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. 	 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.