#### DRAFT

#### CANADA BRITISH COLUMBIA CONSERVATION AGREEMENT FOR SOUTHERN MOUNTAIN CARIBOU IN BRITISH COLUMBIA

This Agreement for the conservation of the Southern Mountain Caribou pursuant to section 11 of the *Species at Risk Act* is made in duplicate as of Date, 2019,

#### Between

#### HER MAJESTY THE QUEEN IN RIGHT OF CANADA.

as represented by the Minister of Environment and Climate Change who is responsible for the Department of the Environment ("Canada", "Environment and Climate Change Canada" or "ECCC")

#### And

### HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF BRITISH COLUMBIA,

as represented by the Minister of Environment and Climate Change
Strategy and
the Minister of Forests, Lands, Natural Resource Operations and Rural
Development
("British Columbia")

( each a "Party" and collectively the "Parties")

#### **PREAMBLE**

WHEREAS the Woodland Caribou (*Rangifer tarandus caribou*), Southern Mountain population ("**Southern Mountain Caribou**") is a species which has been listed as threatened under the federal *Species at Risk Act*, S.C. 2002, c. 29 ("**SARA**" or "*Species at Risk Act*");

AND WHEREAS, the Minister of Environment and Climate Change announced in May, 2018 her finding that Southern Mountain Caribou is facing imminent threats to its recovery;

AND WHEREAS Canada and British Columbia wish to cooperate in the identification and taking of Conservation and Recovery Measures to respond to the imminent threats and support the conservation and recovery of the Southern Mountain Caribou in the province of British Columbia (the "**Province of BC**"), recognizing that immediate action must be taken with the best available information, while new information and knowledge continues to develop;

AND WHEREAS British Columbia has legislative authority for, among other things, wildlife management, including species at risk, decisions respecting natural resources on provincial Crown and private lands in the province of British Columbia, and is taking the lead on Conservation and Recovery Measures for caribou in the province;

AND WHEREAS Canada has legislative responsibility for aquatic species and migratory birds protected by the *Migratory Birds Convention Act, 1994*, and wildlife species listed on Schedule 1 of SARA, including the authority to address recovery, as well as the protection of listed wildlife species including the individuals, their residences and Critical Habitat;

AND WHEREAS Canada and British Columbia recognize the significant contributions made by Indigenous peoples towards the recovery of Southern Mountain Caribou;

AND WHEREAS Canada and British Columbia have considered Indigenous peoples' perspectives and interests in the development of this Agreement and are committed to engaging with, and where appropriate consulting with, directly affected Indigenous peoples in relation to the development and implementation of Conservation and Recovery Measures for Southern Mountain Caribou;

AND WHEREAS Canada and British Columbia recognize that achievement of the Conservation and Recovery Measures set out in this Agreement is based on the current population status of the Southern Mountain Caribou in British Columbia, knowledge of current threats, assessments and the presumption of minimal negative impacts on Southern Mountain Caribou recovery over the immediate and long term from unknown or unanticipated factors, and that future achievements will rely, in part, on the continued ability to manage predators and primary prey, to protect Southern Mountain Caribou from predators.

AND WHEREAS Canada and British Columbia recognize that the protection of the habitat of species at risk is key to their conservation and recovery;

AND WHEREAS section 11 of the *Species at Risk Act* provides the competent ministers with the authority to enter into conservation agreements with any other government of Canada, organization or person to benefit a species at risk or enhance its survival in the wild, and recognizing that such agreements may cover a wide range of actions and activities that must provide for the taking of conservation measures and any other measures consistent with the purposes of the *Species at Risk Act*;

AND WHEREAS the Parties acknowledge that this Agreement is a conservation agreement made pursuant to section 11 of the *Species at Risk Act* to benefit Southern Mountain Caribou in the Province of BC as a species at risk or enhance its survival in the wild:

AND WHEREAS Canada and British Columbia, recognizing that intergovernmental cooperation is crucial to species at risk protection and recovery, have endorsed the Accord for the Protection of Species at Risk (1996), and are signatories to the Canada-British Columbia Agreement on Species at Risk (2005);

AND WHEREAS Canada and British Columbia recognize that integration and coordination of federal and provincial initiatives, will contribute to the success and productivity of the Parties' collaborative efforts;

AND WHEREAS Canada and British Columbia recognize that Southern Mountain Caribou recovery will require both a species-focused and landscape-level approach with immediate and long-term Recovery Horizons, in addition to resourcing and commitment from both Canada and British Columbia in order to be successful in meeting provincial and federal objectives;

**NOW THEREFORE**, Canada and British Columbia, without prejudice to their respective constitutional powers, and in the spirit of cooperation, agree to the following:

#### 1. DEFINITIONS AND ANNEXES

1.1 In this Agreement, unless the context requires otherwise:

"best available information" means scientific and technical data, information and knowledge, as well as Indigenous peoples' knowledge, and community knowledge.

"British Columbia – Canada Caribou Recovery Science Committee" means a committee whose mandate is to provide science and science advice focused on the recovery of Southern Mountain Caribou in British Columbia, supporting the implementation of this Agreement.

- "British Columbia Canada Assistant Deputy Minister Species at Risk Coordinating Committee" means the Committee established by the Parties to ensure consistent communication, cooperation and collaboration between the Parties with respect to species a risk issues in British Columbia.
- "Caribou Recovery Partnership Agreement" means the agreement between Canada, British Columbia, West Moberly First Nations, and Saulteau First Nations which sets out the commitments of the Parties to the conservation and recovery of Southern Mountain Caribou Central Group populations in British Columbia.
- "Central Group" has the meaning ascribed thereto in Annex 1.
- "Conservation and Recovery Measures" means actions that are being taken, or will be taken, by Canada and British Columbia to maintain and increase Southern Mountain Caribou populations in the Province of BC and includes actions to protect Southern Mountain Caribou and Southern Mountain Caribou Habitat.
- "Critical Habitat" has the meaning given to it in the Species at Risk Act, which is "the habitat that is necessary for the survival or recovery of a listed wildlife species and that is identified as the species' critical habitat in the recovery strategy or in an action plan for the species."
- "Federal Recovery Strategy" means the "Recovery Strategy for the Woodland Caribou, Southern Mountain Population (*Rangifer tarandus caribou*) in Canada 2014", which includes a description of threats to the species and its habitat and broad strategies to address the threats; establishes population and distribution objectives; and identifies Critical Habitat.
- "Federal Action Plan" means a plan that Canada will develop that will outline the measures to be taken to implement the Federal Recovery Strategy, including measures to address the threats and achieve the population and distribution objectives; the timing of those measures; methods to monitor recovery; and an evaluation of the socioeconomic costs of the plan and benefits of its implementation. Herd Plans could be adopted or incorporated in whole or in part as components of one or more additional federal action plans.
- "Herd Plans" means plans that provide specific information on historical monitoring and scientific information on a specific caribou Herd or group of Herds, as well as past and proposed future actions required to recover caribou Herds within a particular geographic planning area, including how range-specific land and/or resource activities will be managed over space and time to protect and recover caribou habitat.
- "Joint Southern Mountain Caribou Work Plan" means the detailed plan of actions developed by Canada and British Columbia, updated annually, relating to the Conservation and Recovery Measures outlined in Annex 2 to this Agreement.

"Northern Group" has the meaning ascribed thereto in Annex 1.

"Provincial Caribou Recovery Plan" means the strategic vision for caribou recovery in the Province of BC and informs the recovery plan for the Central Group and specific Herd Plans.

"Recovery Horizon" means the anticipated time required to achieve particular recovery outcomes.

"Risk Based Approach" means an approach that guides the identification and implementation of Conservation and Recovery Measures that are informed by an understanding of risks to the survival and recovery of Southern Mountain Caribou.

"Southern Group" has the meaning as described thereto in Annex 1.

"Southern Mountain Caribou Habitat" for the purpose of this agreement refers to specific geographic areas that contain features essential to the conservation of Southern Mountain Caribou and that may require special management and protection.

"Structured Decision Making" means an approach to identify and evaluate alternatives that focuses on engaging stakeholders, Indigenous peoples, and experts in a science-based and solution-oriented dialogue to inform resource management planning and decision making.

- 1.2 The following are Annexes attached to and forming part of this Agreement:
  - (a) Annex 1 Southern Mountain Caribou Groups, Local Population Units, and Herds in the Province of BC
  - (b) Annex 2 Southern Mountain Caribou Conservation and Recovery Measures
    - Table 1. Landscape Level Planning
    - Table 2. Southern Mountain Caribou Habitat Management
    - Table 3. Population Management
    - Table 4. Population and Southern Mountain Caribou Habitat Monitoring
    - Table 5. Knowledge, Science and Research
    - Table 6. Complementary Measures

#### 2. PURPOSE AND GOALS

2.1 The purpose of this Agreement is to establish the framework for cooperation between Canada and British Columbia, and to articulate the immediate measures and plan by the Parties to develop future Conservation and Recovery Measures that together support the recovery of Southern

Mountain Caribou in the Province of BC to self-sustaining populations, in line with the outcomes identified in the Federal Recovery Strategy.

- 2.2 The goals of this Agreement are to:
  - 2.2.1 Set out the measures that are being taken, and will be taken by Canada and British Columbia to support conservation and recovery of the Southern Mountain Caribou in the Province of BC;
  - 2.2.2 Provide for engagement, and where appropriate consultation, with directly affected Indigenous peoples regarding the recovery of Southern Mountain Caribou in the Province of BC;
  - 2.2.3 Coordinate planning efforts between Canada and British Columbia in respect of Conservation and Recovery Measures;
  - 2.2.4 Establish a mechanism to resolve key knowledge gaps or technical disagreements with respect to Southern Mountain Caribou recovery; and
  - 2.2.5 Facilitate the integration of new information into updated recovery and planning documents.

#### 3. PRINCIPLES

The following principles will guide interpretation and implementation of this Agreement:

- 3.1 Collaboration Canada and British Columbia will work together to achieve a common understanding of measures needed to achieve Southern Mountain Caribou recovery in the Province of BC and will cooperate in the delivery of these Conservation and Recovery Measures in a manner that maximizes collaboration and efficiency, and respects jurisdictional roles and responsibilities.
- 3.2 Results focus Canada and British Columbia will work to implement effective Conservation and Recovery Measures for Southern Mountain Caribou in the Province of BC with the objective of achieving self-sustaining populations, in line with the outcomes identified in the Federal Recovery Strategy.
- 3.3 Adaptive management Canada and British Columbia recognize that monitoring the effects of actions and adjusting approaches as necessary will be critical to success.
- 3.4 *Transparency* Canada and British Columbia will make information related to implementation of Conservation and Recovery Measures covered by this Agreement publicly available, as appropriate.

3.5 Indigenous peoples' collaboration – Canada and British Columbia will, in accordance with Section 7, collaborate with directly affected Indigenous peoples regarding Southern Mountain Caribou recovery in the Province of BC including the development and implementation of Conservation and Recovery Measures pursuant to this Agreement and seeking opportunities for partnership with directly affected Indigenous peoples to implement Conservation and Recovery Measures.

3.6 Stakeholder engagement – Canada and British Columbia will, in accordance with Section 8, seek opportunities for engagement with stakeholders as collaborators in Southern Mountain Caribou recovery in the Province of BC.

#### 4. INTERPRETATION

- 4.1 This Agreement, including any annexes incorporated into this Agreement, does not create any new legal powers or duties on the part of Canada and British Columbia nor does it alter the powers and duties established by SARA, the *Wildlife Act*, R.S.B.C. 1996, c. 488, the *Forest and Range Practices Act*, R.S.B.C. 2002, c .69, or any other federal or provincial legislation.
- 4.2 Neither Canada nor British Columbia relinquishes any jurisdiction, right, power, privilege, prerogative or immunity by virtue of this Agreement.
- 4.3 This Agreement, including any annexes incorporated into this Agreement, does not obligate either Canada or British Columbia to enact any statute or other law, nor does it obligate any statutory decision maker to issue or refuse to issue any license, permit or other authorization. This Agreement is not intended to fetter the authority of the Parliament of Canada, the Legislative Assembly of British Columbia, or any statutory decision maker.
- 4.4 This Agreement does not and is not intended to create legally-binding obligations between Canada and British Columbia. Nothing in this Agreement is to be construed as creating any legal, financial or contractual relations between the Parties enforceable by a court of competent jurisdiction.

#### 5. COMMITMENTS

Canada and British Columbia each agree to:

5.1 Work together to achieve the Conservation and Recovery Measures that are outlined in Annex 2, guided by the best available information and with the long term goal of reaching self-sustaining populations.

5.1.1 Develop, implement and annually update a Joint Southern Mountain Caribou Work Plan that outlines the specific actions and funding to deliver on the Conservation and Recovery Measures that are outlined in Annex 2, following a Risk Based Approach.

- 5.1.2 Acknowledge that the Conservation and Recovery Measures that are outlined in Annex 2 will be evaluated and revised as required, in accordance with section 12.2, based on annual updates to the Joint Southern Mountain Caribou Work Plan, and based on British Columbia's Herd planning as part of the Provincial Caribou Recovery Plan.
- 5.2 Cooperate in the development, amendment and implementation of recovery strategies, recovery programs, Herd Plans, work plans and similar documents related to the recovery of Southern Mountain Caribou in the Province of BC, including, but not limited to:
  - 5.2.1 Inform and engage the other Party in the preparation of items listed in Section 5.5 for the purposes of sharing information, providing opportunities for review and comment on draft documents, and for aligning timelines to maximize efficiency using the process established under the Canada British Columbia Agreement on Species at Risk (2005).
  - 5.2.2 Canada commits to engage British Columbia on amendments to the Federal Recovery Strategy and on development of and any amendments to the Federal Action Plan, and British Columbia commits to inform and engage with Canada on its provincial herd planning process.
- 5.3 Support the work of the collaborative British Columbia Canada Caribou Recovery Science Committee to provide information and technical support for the implementation of this Agreement.

#### British Columbia commits to:

- 5.4 Incrementally increase Southern Mountain Caribou Habitat over the course of this Agreement via a range of measures including restoration, incremental habitat protection, and habitat offsetting.
- 5.5 Finalize the Provincial Caribou Recovery Plan in summer 2019, taking into account the commitments in this Agreement. The Provincial Caribou Recovery Plan covers all caribou in the Province of BC (Southern Mountain, Northern Mountain and Boreal) and aims to:
  - a. Reverse the decline and achieve stable, increasing populations of Southern Mountain Caribou Herds;
  - b. Advance collaboration and reconciliation with Indigenous communities;
  - c. Provide certainty to affected natural resource users;

- d. Actively collaborate with partners in caribou recovery; and
- e. Increase public confidence via accountable, effective program delivery and management.
- 5.6 Continue to develop Herd Plans for Southern Mountain Caribou as the lead Party in accordance with the Provincial Caribou Recovery Plan including:
  - 5.6.1 Complete the Herd Plans in a phased approach within two years of the effective date of this Agreement with the goal of delivering on the objectives in the Provincial Caribou Recovery Plan;
  - 5.6.2 Use the Herd Plans to engage with Indigenous peoples and stakeholders; and
  - 5.6.3 Monitor and assess the Herd Plans against program objectives and modify them using an adaptive management approach at regular intervals.

#### Canada commits to:

- 5.7 Contribute funding to support Southern Mountain Caribou recovery in British Columbia, including direct funding to Indigenous peoples to support their role in the development and implementation of Conservation and Recovery Measures.
- 5.8 Develop a funding agreement with British Columbia within six months of the effective date of this Agreement to support the implementation of Conservation and Recovery Measures and the work of the British Columbia Canada Caribou Recovery Science Committee. The funding agreement will outline commitments for the first three years of the Agreement, and commit Canada to reassess funding commitments for the last two years of this Agreement by the end of year three, in line with federal budget scheduling.
- 5.9 Provide secretariat and technical support for the British Columbia Canada Caribou Recovery Science Committee.

#### 6. GOVERNANCE

6.1 Canada and British Columbia will establish a sub-committee of the British Columbia – Canada Assistant Deputy Minister Level Species at Risk Steering Committee to provide overall strategic direction and support for the implementation of this Agreement and to ensure that communication, cooperation and collaboration between Canada and British Columbia is clear, timely and effective.

#### 7. COLLABORATION WITH INDIGENOUS PEOPLES

7.1 Canada and British Columbia commit to engage, and where appropriate, consult with directly affected Indigenous peoples regarding Southern Mountain Caribou

- recovery including the development and implementation of Conservation and Recovery Measures in relation to potential impacts on any aboriginal or treaty rights that are recognized and affirmed by Section 35 of the *Constitution Act*, 1982.
- 7.2 Canada and British Columbia anticipate that engagement, and where appropriate, consultation, with directly affected Indigenous peoples regarding Conservation and Recovery Measures for Southern Mountain Caribou in British Columbia, may include:
  - 7.2.1 Collaboration in activities in support of recovery planning and actions (e.g. planning, information sharing, delivery and monitoring) with directly affected Indigenous peoples that have demonstrated prior leadership in Southern Mountain Caribou recovery, as well as the expertise and ability to plan, deliver and monitor on-the-ground measures to conserve and recover Southern Mountain Caribou populations;
  - 7.2.2 Enabling participation by Indigenous peoples in Southern Mountain Caribou recovery planning activities, which may take the shape of working groups, committees and the development of more formal mechanisms, such as memoranda of understanding; and
  - 7.2.3 Engagement with Indigenous peoples through providing opportunities for participation in Structured Decision Making processes.

#### 8. STAKEHOLDER ENGAGEMENT

- 8.1 Canada and British Columbia commit to taking reasonable steps to ensure that stakeholders, such as local governments, non-governmental organizations, private landowners, tenure holders, industry representatives and industry associations are informed of this Agreement.
- 8.2 British Columbia will lead engagement with the applicable stakeholders on the implementation of this Agreement with the support and involvement of Canada.
- 8.3 British Columbia will seek to ensure that stakeholders have the opportunity to engage on the implementation of this Agreement in a consistent yet flexible manner which may include Structured Decision Making approaches.
- 8.4 Canada and British Columbia will work with willing partners to develop and implement best management practices and procedures to minimize impacts to Southern Mountain Caribou recovery.

#### 9. INFORMATION SHARING

9.1 Each Party agrees, subject to any applicable data sharing agreements and legislative provisions that would prevent them from doing so, to provide the other Party access, at no charge, to available data and information relevant to the implementation of this Agreement. This includes:

- 9.1.1 Information on the status, conservation and recovery of Southern Mountain Caribou in the Province of BC, including habitat protection, restoration and other recovery measures; and
- 9.1.2 Information pertaining to Southern Mountain Caribou Habitat and Critical Habitat.
- 9.2 Some data and information may require confidentiality, or may have been obtained with an understanding of confidentiality in order to protect species at risk from exploitation or harm. Data and information so identified by a Party, or a collaborator in programs and activities related to this Agreement, will be held confidential by Canada and British Columbia to the extent permitted by their respective legislation and related policies, procedures, and agreements.

#### 10. FINANCIAL ARRANGEMENTS AND SUPPORT

- 10.1 Recognizing the significant financial investments required to support Southern Mountain Caribou recovery, Canada and British Columbia, subject to sections 10.2 to 10.4, commit to contribute funding, including for the specific Conservation and Recovery Measures as identified in Annex 2, as well as overarching activities such as science and engagement activities, outlined annually in the Joint Southern Mountain Caribou Work Plan.
- 10.2 Each Party's commitment to fund or implement any Conservation and Recovery Measure in this Agreement, including without limitation, the specific Conservation and Recovery Measures that are outlined in Annex 2, are subject to an appropriation being available for that particular measure during the applicable fiscal year of the Party.
- 10.3 Canada and British Columbia acknowledge and agree that any funding to implement this Agreement is subject to their respective priorities and budgetary constraints.
- 10.4 Canada and British Columbia further acknowledge that neither Party is providing assurances to the other Party that it will obtain funding, or any required approvals or mandates that may be required to implement any Conservation and Recovery Measures.

#### 11. MONITORING AND REPORTING

11.1 Canada and British Columbia agree to develop and implement an assessment framework, that would include performance indicators to facilitate measurement of progress.

- 11.2 Canada will prepare and issue, every year, with the support of British Columbia, a public report on this Agreement, which will address, in general terms:
  - a. Progress on the Conservation and Recovery Measures that are outlined in Annex 2;
  - b. Assessment of the effectiveness of the measures to date;
  - c. Future recovery expectations for the relevant Recovery Horizon;
  - d. Steps taken to protect the Critical Habitat of Southern Mountain Caribou in the Province of BC that is not yet protected;
  - e. Research findings; and
  - f. Updates on unforeseen circumstances or stochastic events (e.g. fire, forest health issues) that might impact the Conservation and Recovery Measures that are outlined in Annex 2, as it becomes available.
- 11.3 Evaluate the Conservation and Recovery Measures that are outlined in Annex 2 and propose any additional measures which may be required, consistent with the principle of adaptive management outlined in section 3.3, to increase the likelihood of achieving the goals described in this Agreement or that may otherwise expedite the recovery of Southern Mountain Caribou in the Province of BC.
- 11.4 Prior to five years from the Effective Date, Canada and British Columbia will produce a report on outputs and deliverables in relation to recovery outcomes to date. The report will be used to inform discussions on renewal of this Agreement.

## 12. DURATION, AMENDMENT, TERMINATION AND RENEWAL

- 12.1 This Agreement takes effect on the date of the last signature affixed to this Agreement (the "**Effective Date**"). It will remain in force for a term of five years, unless terminated earlier in accordance with this Agreement.
- 12.2 This Agreement and for greater clarity any Annexes may be amended from time to time with the written mutual consent of Canada and British Columbia, subject to any required approval or authorization.

12.3 Either Party may terminate this Agreement 90 days after providing written notice to the other Party. Each Party will consult with the other Party prior to providing such written notice.

12.4 The term of this Agreement may be extended with the mutual written consent of Canada and British Columbia prior to the expiration of this Agreement.

#### 13. DISPUTE RESOLUTION

- 13.1 In the event of a dispute between Canada and British Columbia arising out of this Agreement, Canada and British Columbia will use the following procedure to resolve the dispute:
  - 13.1.1 The sub-committee established in section 6.1 will be the first point of resolution for disputes arising from this Agreement; and
  - 13.1.2 Disputes which cannot be resolved in accordance with section 13.1.1 will be referred to the Deputy Minister of Environment, Ministry of Environment and Climate Change Strategy (British Columbia), the Deputy Minister of Forests, Lands, Natural Resource Operations and Rural Development (British Columbia), and the Deputy Minister of Environment and Climate Change Canada for resolution.

## 14. DESIGNATION FOR IMPLEMENTATION OF THIS AGREEMENT

14.1 The administration of this Agreement will be carried out on behalf of Canada by the Assistant Deputy Minister of the Canadian Wildlife Service, Environment and Climate Change Canada.

The administration of this Agreement will be carried out on behalf of British Columbia by the Assistant Deputy Minister of Environmental Sustainability and Strategic Policy, Ministry of Environment and Climate Change Strategy and the Assistant Deputy Minister, Resource Stewardship Division, Ministry of Forests, Lands, Natural Resource Operations and Rural Development.

#### 15. COUNTERPARTS

15.1 This Agreement may be signed in several counterparts and each counterpart shall constitute an original document; these counterparts taken together shall constitute one and the same Agreement. Canada and British Columbia agree that executed counterparts may be transmitted by email (pdf format) or by mail and that such

counterparts shall be treated as originally executed instruments. Each Party undertakes to provide the others with a copy of the original Agreement bearing actual original signatures within a reasonable period of time following execution of this Agreement.

#### 16. SIGNATURES

IN WITNESS WHEREOF, Canada and British Columbia have executed this Agreement.

IN WITNESS WHE	<b>REOF</b> , Canada ar	nd British Columbia have executed this Agreement
On behalf of Her M of Environment and		in Right of Canada, as represented by the Minister
The Honourable Ca Minister of Environi Government of Car	ment and Climate	
Signed this	day of	, 2019.
		in right of the Province British Columbia, as nment and Climate Change Strategy
The Honourable Ge Minister of Environi Government of Brit	ment and Climate	— Change Strategy
Signed this	day of	, 2019.
		in right of the Province British Columbia, as s, Lands, Natural Resource Operations and Rural
The Honourable Do Minister of Forests, Government of Brit	Lands, Natural R	esource Operations and Rural Development
Signed this	day of	, 2019.

# ANNEX 1 TO THE AGREEMENT FOR THE CONSERVATION OF THE SOUTHERN MOUNTAIN CARIBOU IN BRITISH COLUMBIA

Southern Mountain Caribou Groups, Local Population Units, and Herds in the Province of BC

Central Group	LPU <sup>1</sup>	Subpopulation/Herd <sup>1</sup>
The <b>Central Group</b> consists of three Local Population Units (LPUs) in BC: the Pine	Pine River	Moberly
River, Quintette, and Narraway LPUs. In addition, the range of the A La Peche and		Scott
Redrock-Prairie Creek LPUs extend into British Columbia. The majority of the range of		(now considered one herd:
the Redrock-Prairie Creek LPU overlaps with other LPUs in BC.		Klinse-za)
		Kennedy Siding
		Burnt Pine (extirpated)
	Quintette	Quintette
	Narraway	Narraway
Northern Group	LPU	Subpopulation/Herd
	Chilcotin	Rainbows
The <b>Northern Group</b> consists of seven LPUs: the Chilcotin, Tweedsmuir, Telkwa,		Charlotte Alplands
Takla, Wolverine, Chase, and Graham LPUs. Each LPU is made up of one or more		Itcha-Ilgachuz
herds (aka subpopulations) of caribou.	Tweedsmuir	Tweedsmuir
	Telkwa	Telkwa
	Takla	Takla
	Wolverine	Wolverine
	Chase	Chase
	Graham	Graham
Southern Group	LPU	Subpopulation/Herd
	Hart Ranges	Hart Ranges
The <b>Southern Group</b> consists of eleven LPUs: the Hart Ranges, Upper Fraser, Mount		Parsnip
Robson, Quesnel Highlands, Wells Gray-Thompson, Revelstoke-Shuswap, Kinbasket,	Upper Fraser	Narrow Lake
Central Kootenay, South Monashee, Southeast Kootenay, Southwest Kootenay. In		North Cariboo Mountains
addition, caribou from the A La Peche and Redrock-Prairie Creek LPUs have		George Mtn (extirpated)
historically used portions of the Hart Ranges LPU.	Mount Robson	This LPU includes only small
		portions of ranges of other
		subpopulations, and was not
		included in COSEWIC's 2014
		assessment.
	Quesnel Highlands	Barkerville
		West Gray North
	Wells Gray – Thompson	Wells Gray South

	Groundhog
Revelstoke – Shuswap	Columbia North
	Columbia South
	Frisby-Boulder
Kinbasket	Central Rockies (extirpated)
Central Kootenay	Duncan
	Nakusp
	(now considered one herd:
	Central Selkirks)
South Monashee	Monashee (extirpated)
Southwest Kootenay	South Selkirks
Southeast Kootenay	Purcells Central (extirpated)
	Purcells South

<sup>1</sup>The federal recovery strategy distinguishes between three groups of caribou within the entity currently listed under SARA Schedule 1 as "Woodland Caribou, Southern Mountain population" (Southern Mountain Caribou); namely the Northern Group, Central Group, and Southern Group. This follows the most recent COSEWIC status report, which considers these groups as different "designable units" (COSEWIC 2014). The federal recovery strategy also established 24 caribou Local Population Units (LPUs), 21 of which are primarily or wholly in BC and 3 that are primarily or wholly in Alberta. LPUs are used in the federal recovery strategy to describe groups of subpopulations that, historically, are assumed to have been part of the same population. Some LPUs contain a single subpopulation. Subpopulations in the federal recovery strategy generally align with what BC refers to as Herds. However, the names of these different groupings sometimes change to reflect changes in caribou population dynamics and local language.

# ANNEX 2 TO THE CANADA BRITISH COLUMBIA CONSERVATION AGREEMENT FOR SOUTHERN MOUNTAIN CARIBOU IN BRITISH COLUMBIA

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#### Overview

This Annex 2 sets out the Conservation and Recovery Measures for Southern Mountain Caribou as agreed to by Canada and British Columbia. Measures included in this Annex were developed by British Columbia and Canada as part of the British Columbia Provincial Caribou Recovery Plan, and informed by engagement with Indigenous communities and stakeholders. These measures inform part of a comprehensive strategy to recover Southern Mountain Caribou and address imminent threats to their recovery. Additional measures will be developed as part of an adaptive management approach, informed by the Joint Southern Mountain Caribou Work Plan, the British Columbia Provincial Caribou Recovery Plan, as well as through ongoing engagement with Indigenous communities and stakeholders. The British Columbia Provincial Caribou Recovery Plan will inform sub regional plans and more specific Herd Plans. Implementation of Conservation and Recovery Measures in the British Columbia Provincial Caribou Recovery Plan will be aligned with those included in this Annex.

The identification and implementation of Conservation and Recovery Measures are informed by an understanding of risks to the survival and recovery of Southern Mountain Caribou. Risks are assessed based on a number of factors including herd status (herd size and risk of extirpation), viability, Southern Mountain Caribou habitat condition, climate change impacts, potential for cumulative impacts, Southern Mountain Caribou habitat fragmentation, and primary prey and predator populations. This information guides the prioritization of measures for specific herds. The British Columbia -Canada Caribou Recovery Science Committee will continue to provide advice on science as it pertains to supporting the recovery of Southern Mountain Caribou.

Current and planned Conservation and Recovery Measures are set out in the following tables:

Table 1 - Landscape Level Planning

Table 2 - Southern Mountain Caribou Habitat Management

Table 3 - Population Management

Table 4 - Population and Southern Mountain Caribou Habitat Monitoring

Table 5 - Knowledge, Science and Research

Table 6 - Complementary Measures

Each table is organized into six major activity categories, and is then further broken down by sub-activity.

#### **Table 1. Landscape Level Planning**

Landscape level planning includes the development of recovery, action, and Herd Plans, and the gathering of information and analysis to support those plans. Definitions of the different types of plans referenced in this table are included in Section 1.0 of the Agreement.

Activity Sub-Category:	Herd Plans		
Scope:	All Southern Mountain Caribou (Central, Northern & Souther	rn Groups)	
Actions		Target Timeline	Lead Party
Current		,	1
Complete Phase 1 Herd	Plans for all Southern Mountain Caribou. Phase 1 Herd Plans	• Completed in summer 2018	British
include outlines of the c	urrent state of Southern Mountain Caribou, Southern		Columbia
Mountain Caribou habit	at condition, threats faced by a particular herd, past		
management and recove	ery actions, and listing of available and relevant literature.		
Activity Sub-Category:	Herd Plans		
Scope:	All Southern Mountain Caribou (Central, Northern & Souther	n Groups)	
Actions		Target Timeline	Lead Party
Planned		<u>,                                      </u>	1
Complete Phase 2 Herd	Plans:	• Spring 2019 - Fall 2020	British
o For 2018/19, herds t	hat have been identified as in need of immediate attention:		Columbia
all herds in the Cent	ral Group, South Selkirks, Purcells South, Wells Grey South,		
Groundhog, Wells G	rey North, Tweedsmuir, Chase, Wolverine, Takla and all		
herds in the Chilcoti	n LPU.		
<ul> <li>Support herd planni</li> </ul>	ng using a Structured Décision Making approach or other		
collaborative proces	s with Indigenous peoples and stakeholders. This approach		
will use the best ava	ilable science, information and Indigenous knowledge to		
identify additional S	outhern Mountain Caribou habitat protection and		
	s in specific areas, with the strategic objective of achieving		
	lations in line with the outcomes identified in the federal		
Recovery Strategy.			

For the Central Group, the key conservation measures included in the Caribou Recovery Partnership Agreement will be the objectives on which the structured decision-making process will be based.
 Herd plans will identify the recovery activities to be implemented, by herd, and the expected outcomes, including how to promote a net increase in Southern Mountain Caribou habitat over the five year term of the Agreement.
 Update Phase 2 Herd Plans as needed.

Table 1. Landscape Level Planning, cont.

Activity Sub- Category:	Federal Recovery Strategy Amendments		
Scope:	All Southern Mountain Caribou (Central, Northern &	& Southern Groups)	
Actions		Target Timeline	Lead Party
Current			
o detailed Crit	<ul> <li>Critical Habitat categories;</li> <li>detailed Critical Habitat mapping; and</li> </ul>		
Planned			
<ul> <li>Publish proposed an comment period.</li> </ul>	nendments to LPU boundaries for 60-day public	Initiate beginning with Southern Group in spring 2019	Canada
Publish proposed an Strategy.	mendments to remainder of the Federal Recovery	To be determined through the British     Columbia - Canada Caribou Recovery Science     Committee	Canada

<b>Activity Sub-</b>	Federal Action Plan(s)		
Category:			
Scope:	All Southern Mountain Caribou (Central, Northern 8	k Southern Groups)	
Actions		Target Timeline	Lead Party
Planned			
<ul> <li>Adopt or incorporate British Columbia, Alberta and/or Indigenous Herd</li> <li>To be determined based on timing of</li> </ul>			
or Range Plans int	o one or more Federal Action Plans.	availability of jurisdictional plans	

#### **Table 2. Southern Mountain Caribou Habitat Management**

Southern Mountain Caribou habitat management includes Southern Mountain Caribou habitat protection and restoration, constraints on activities, and management of access to sensitive Southern Mountain Caribou habitat; with the overarching goal of a net increase in Southern Mountain Caribou habitat over the course of the Agreement.

Activity Sub-Category:	Southern Mountain Caribou Habitat Protection		
Scope:	All Southern Mountain Caribou (Central, Northern & Souther	rn Groups)	
Actions		Target Timeline	Lead Party
Planned			
Develop a plan for the r	reduction of Southern Mountain Caribou habitat disturbance	• 2019 -2020	British
which includes short an	d long-term management objectives and best management		Columbia
practices for various sec	ctors and that will work towards increasing Southern		
Mountain Caribou habi	tat over the term of this Agreement.		
Re-evaluate conditions of park use permits in provincial protected areas where heli-		• 2019-2020	British
skiing is permitted in Southern Mountain Caribou habitat.			Columbia
Develop, test, and implement best management practices for forestry activities and		• Winter 2019 – Fall 2020	British
other sectors as needed	d and appropriate, in matrix Southern Mountain Caribou		Columbia
habitat.			

Table 2. Southern Mountain Caribou Habitat Management, cont.

Activity Sub-Category:	Southern Mountain Caribou Habitat Protection		
Scope:	Central Group		
Actions		Target Timeline	Lead Party
Planned			
Seek to bring forward re	egulatory measures to establish a moratorium for high	Winter /Summer 2019	British
elevation winter and su	mmer ranges, and additional specified areas in the Pine River	/	Columbia
local population unit, pr	rohibiting statutory decision makers from adjudicating		
applications for all reso	urce development activities, with some exceptions.		
Seek to bring forward re	egulatory measures to identify and put in place a protected	• Winter 2019 - Winter 2020	British
area expanding the Klin	se-za Park, following engagement with Indigenous peoples,		Columbia
local communities, indu	stry and stakeholders.		
Develop Caribou Recove	ery Related Land Use Objectives, using best available	Winter/Fall 2019	British
scientific and traditiona	l knowledge, and seek to bring these forward through		Columbia
appropriate regulatory	measures and practices. Objectives will be considered by		
Statutory Decision Make	ers and will therefore help govern resource development		
activities in areas where	e sustainable resource activities will continue.		
Develop a plan which do	emonstrates the measures British Columbia will take to begin	Winter/Winter 2020	British
achieving net decreases	s in the overall percentage of disturbed Southern Mountain		Columbia
Caribou habitat within t	the Central Group.		
Engage on winter moto	r vehicle use in the Central Group and identify potential	Spring/Summer 2019	British
conflicts.			Columbia
Develop a Southern Mo	ountain Caribou habitat mitigation and offset program for the	• Winter 2019 – Winter 2021	British
Central Group that build	ds on the provincial Environmental Mitigation Policy that will		Columbia
work towards demonstr	rating a net-neutral or positive effect on caribou.		

Table 2. Southern Mountain Caribou Habitat Management, cont.

Activity Sub-Category:	Southern Mountain Caribou Habitat Protection		
Scope	Northern Group		
Actions		Target Timeline	Lead Party
Planned			
Explore opportunities to	develop reserves under the Land Act, Mineral Tenures Act,	• 2019 - 2020	British
and <i>Coal Act</i> for select N	lorthern Group herds.	/	Columbia
<ul> <li>Assess utility and oppor</li> </ul>	tunity to implement motor vehicle closures for select	<ul> <li>Winter 2019 -Winter 2020</li> </ul>	British
Northern Group herd ra	nges.		Columbia
Scope:	Southern Group		
Actions		Target Timeline	Lead Party
Planned			
Conduct Southern Mour	ntain Caribou habitat analysis and make recommendations	• Fall 2018 - Fall 2019	British
for additional Southern	Mountain Caribou habitat protection for the Wells Gray -		Columbia
Thompson, Quesnel Hig	hlands, Upper Fraser, Hart Ranges, and Revelstoke –		
Shuswap LPUs.			
Acquire Next Creek land	as part of the overall objectives to protect Southern	• Fall 2018- Spring 2019	British
Mountain Caribou habit	at from disturbances.		Columbia
			/Canada
			/Nature
			Conservancy of
			Canada
Look for opportunities f	or other land purchases located within the habitat of the	• 2019 -2021	British
Southern Group and elsewhere in B.C. that could support caribou recovery and			Columbia
assess feasibility, neede	d support and funding requirements.		/Canada

#### Table 2. Southern Mountain Caribou Habitat Management, cont.

<b>Activity Sub-Category:</b>	Southern Mountain Caribou Habitat Restoration		
Scope:	All Southern Mountain Caribou (Central, Northern & Southern	rn Groups)	
Actions		Target Timeline	Lead Party
Planned			
Established initial funding	ng envelope of \$2 million to the Habitat Conservation Trust	<ul> <li>Completed</li> </ul>	British
Foundation (HCTF) to fund Southern Mountain Caribou habitat restoration projects.			Columbia
Look for additional funding to contribute to the fund.		Ongoing	/Canada
Continue to refine distu	rbance mapping to support ongoing Southern Mountain	• Ongoing	British
Caribou habitat restorat	tion programs.		Columbia

<b>Activity Sub-Category:</b>	Southern Mountain Caribou Habitat Restoration		
Scope:	Central Group		
Actions		Target Timeline	Lead Party
Planned			
Support Southern Mour	ntain Caribou habitat restoration projects being undertaken	<ul> <li>Spring 2019 -Winter 2021</li> </ul>	British
by the Nun Wa Dee Stewardship Society within the Pine River LPU, and work			Columbia
collaboratively with the Society to identify opportunities to implement those and			
other Southern Mounta	in Caribou habitat restoration projects.		

Table 2. Southern Mountain Caribou Habitat Management, cont.

Activity Sub-Category:	Southern Mountain Caribou Habitat Restoration		
Scope:	Northern Group		
Actions		Target Timeline	Lead Party
Current			
Continue to monitor and	d complete lichen seeding restoration trial in burned	<ul> <li>Ongoing</li> </ul>	British
Southern Mountain Car	ibou habitat in Tweedsmuir and Chase ranges in		Columbia
collaboration with First	Nations.		
Conduct planning for lin	ear feature deactivation/rehabilitation in select Northern	Ongoing	British
Group ranges, including	Itcha-Ilgachuz.		Columbia
Planned			
Expand lichen seeding to	rial to ecological restoration at an operational scale in	• 2019 - 2020	British
Tweedsmuir and Chase	herd ranges.		Columbia
Continue to refine distu	rbance mapping to support ongoing Southern Mountain	• 2018-2020	British
Caribou habitat restorat	cion programs.		Columbia
Conduct linear feature of	deactivation/rehabilitation in select Northern Group herd	• 2019/20120	British
ranges.			Columbia
Develop restoration stra	ategies for select Northern Group herds based on risks to	• 2018 -2020	British
each herd (e.g., could in	clude the Tweedsmuir herd).		Columbia

Table 2. Southern Mountain Caribou Habitat Management, cont.

<b>Activity Sub-Category:</b>	Southern Mountain Caribou Habitat Restoration		
Scope:	Southern Group		
Actions		Target Timeline	Lead Party
Current			
Implement Southern Me	ountain Caribou habitat restoration for BC Timber Sales road	Completed	British
system in the Columbia	North Herd area (Big Mouth Creek). Deactivate 6700m of		Columbia
road and treat over 500	Om of other terrain as part of the Big Mouth Restoration		
Project (in the Columbia	North herd area).		
Continue to refine distu	rbance mapping to support ongoing Southern Mountain	Ongoing	British
Caribou habitat restorat	cion programs.		Columbia
Planned			
Develop and implement	a Southern Mountain Caribou habitat restoration strategy	Initiate in winter 2019	British
which may include road	rehabilitation (first priority) and other Southern Mountain		Columbia
Caribou habitat restorat	tion actions. Areas of focus will include the following Local		
Population Units: Wells	Gray - Thompson, Revelstoke - Shuswap, Quesnel Highlands,		
Upper Fraser and Hart F	Ranges.		
Monitor results of Big N	Nouth Creek restoration project to measure effectiveness of	Annually for 3 years	British
the road rehabilitation a	and caribou habitat restoration.		Columbia
Complete Southern Mor	untain Caribou habitat restoration project in Mica Creek.	• 2018/2019	British
			Columbia

#### **Table 3. Population Management**

Population management includes management of predators and alternate prey, measures to protect caribou from mortality, and caribou population augmentation.

A	ctivity Sub-Category:	Southern Mountain Caribou Population Management		
Sc	cope:	All Southern Mountain Caribou (Central, Northern & Southern	rn Groups)	
A	ctions		Target Timeline	Lead Party
PI	anned			
•	Review hunting of South	nern Mountain Caribou across British Columbia, with an	• 2019	British
	initial emphasis on the Northern Group, following the 2018 hunting season. The			Columbia
	review is intended to assess if hunting can continue given the status of the species,			
	conservation and recovery objectives, Indigenous peoples' rights and interests, and			
	stakeholder interests.			

<b>Activity Sub-Category:</b>	Predator Management			
Scope:	All Southern Mountain Caribou (Central, Northern & Souther	rn Groups)		
Actions		Target Timeline	Lead Party	
Current				
Continue to conduct wo	olf control via ground and air-based methods for the Central	<ul> <li>Winter 2019-2020 and as</li> </ul>	British	
Group and the Southerr	Group and assess potential need for the Northern Group.	needed following evaluation of	Columbia	
		program		
Develop the Northeast I	Predator Management Plan and Decision Matrix to provide a	Completed in 2018	British	
transparent rationale fo	r wolf control or other predator control measures. This		Columbia	
Matrix may be used in t	he other groups to support predator management.			
Planned	Planned			
• Continue to assess the r	need for and practicality of predator management for	2019-2021	British	
Southern Mountain Car	ibou herds by conducting regular reviews.		Columbia	

Table 3. Population Management, cont.

Activity Sub-Category:	Predator Management			
Scope:	Central Group			
Actions		Target Timeline	Lead Party	
Planned				
In consultation with Sau	Iteau and West Moberly, implement effective predator	<ul> <li>Winter 2019-2020 and as</li> </ul>	British	
management programs	to be conducted annually throughout each LPU until British 🦯	needed following joint review	Columbia/	
Columbia, Canada, and	the West Moberly and Saulteau First Nations agree that	of program in 2019-2020	Canada/	
Southern Mountain Cari	bou habitat conditions no longer require it.		Saulteau and	
			West Moberly	
			First Nations	
Scope:	Northern Group			
Actions		Target Timeline	Lead Party	
Current			_	
<ul> <li>Evaluate predator mana</li> </ul>	gement in multiple Northern Group herds including the	• Fall 2018 -Spring 2019	British	
Graham, Itcha-Ilgachuz	. Tweedsmuir and Hart herds based on results of analysis		Columbia	
using decision matrix an	d on engagement with Indigenous communities and			
stakeholders.				
Planned				
Re-evaluate the need for	r predator management in all Northern Group herds by	• 2019 - 2020	British	
conducting a five-year re	eview.		Columbia	

Table 3. Population Management, cont.

Activity Sub-Category:	tivity Sub-Category: Maternity Pens and Captive Breeding		
Scope:	Central Group		
Actions		Target Timeline	Lead Party
Current			
Continue activities at the	<ul> <li>Continue activities at the Klinse-za maternity pen, guided by Provincial Caribou</li> <li>Ongoing</li> </ul>		
Recovery Plan recovery	objectives and key conservation and recovery measures	Reassess based on results	Columbia
developed with West M	oberly and Saulteau First Nations.	/	/West Moberly
			and Saulteau
			First Nations
•		•	
Scope:	Southern Group		
Actions		Target Timeline	Lead Party
Current			_
<ul> <li>Complete review of Rev</li> </ul>	elstoke Caribou Maternity Pen Project.	• 2019 -2020	British
			Columbia
Planned			_
<ul> <li>Assess activities and cor</li> </ul>	nsider opportunities to enhance recovery at the Revelstoke	• 2018/2019	British
Caribou Maternity Pen.			Columbia
Develop and implement	a captive breeding program.	• Initiated in 2018, 2019– 2022	British
			Columbia
Attempt to capture rem	aining caribou in the South Selkirks and Purcell South Herds	Completed	British
and move them to a safe location until they become a part of a captive breeding			Columbia
herd, or until they can b	e introduced to a herd where they are more likely to		
contribute to successful	herd growth.		
herd, or until they can b	e introduced to a herd where they are more likely to		Columbia

Table 3. Population Management, cont.

Activity Sub-Category:	Direct Primary Prey Management			
Scope:	All Southern Mountain Caribou (Central, Northern & Souther	rn Groups)		
Actions		Target Timeline	Lead Party	
Current				
Continue to monitor an	d implement moose reduction project in the Columbia North	<ul> <li>Ongoing</li> </ul>	British	
and Parsnip herd range	S.		Columbia	
Planned				
Consider opportunity for	or direct primary prey management.	• 2019-2020	British	
			Columbia	
Use primary prey monit	toring results to inform decision making regarding the need to		British	
directly reduce primary prey densities and directly manage the suitability of		• 2019-2020	Columbia	
Southern Mountain Car	ribou habitat for primary prey.			

#### **Table 4. Population and Southern Mountain Caribou Habitat Monitoring**

Population and Southern Mountain Caribou habitat monitoring includes monitoring of caribou, predator and primary prey populations.

Ac	ctivity Sub- Category: Caribou Population Monitoring				
Sc	ope:	All Southern Mountain Caribou (Central, Northern & Southern Groups)			
Ac	tions		Target Timeline	Lead Party	
Cu	rrent				
•	Monitor population sta	tus of all Southern Mountain Caribou with the overall	Ongoing	British	
	objective to provide infe	ormation to support recovery efforts as part of the Provincial		Columbia	
	Caribou Recovery Plan.				
	Population census prior	to initiation of the Provincial Caribou Recovery Program			
	(2017) included four to	five projects per year. In 2017/18, 27 monitoring projects			
	were undertaken across	s all Southern Mountain Caribou.			
•	Track caribou using tele	metry collars which are deployed annually in winter months.	Ongoing	British	
	Telemetry data is down	loaded and used to assess seasonal habitat use and evaluate		Columbia	
	proximity to predators	and alternate prey.			
•	Investigate mortality ale	erts upon receipt.	Ongoing	British	
				Columbia	
•	Survey all extant herds	using most appropriate methods including minimum counts.	Annually to every three years	British	
				Columbia	

Table 4. Population and Southern Mountain Caribou Habitat Monitoring, cont.

Activity Sub- Category:	Caribou Population Monitoring				
Scope:	All Southern Mountain Caribou (Central, Northern & Souther	All Southern Mountain Caribou (Central, Northern & Southern Groups)			
Actions		Target Timeline	Lead Party		
Planned					
Evaluate population cer	nsus data to determine if monitoring is conducted in the	• 2018 - 2020	British		
appropriate location an	d at the appropriate frequency based on the latest herd		Columbia		
status assessment to su	pport the recovery objectives in the Provincial Caribou				
Recovery Plan.					
Direct monitoring effort	ts to assess effectiveness of Conservation and Recovery	• 2019 -2020	British		
Measures.	Measures.		Columbia		
Use information from the second	Use information from the British Columbia - Canada Caribou Recovery Science		British		
Committee to re-align a	Committee to re-align and /or expand budgets to address inventory and monitoring		Columbia		
needs, as well as resear	ch priorities.				

Activity Sub-Category:	Primary Prey Population Monitoring				
Scope:	All Southern Mountain Caribou (Central, Northern & Southern	rn Groups)			
Actions		Target Timeline	Lead Party		
Current					
Monitor moose populations and hunting allocations in areas overlapping or directly adjacent to Southern Mountain Caribou critical habitat, and in areas identified as important to Southern Mountain Caribou recovery.		Ongoing	British Columbia		
Planned	Planned				
Install telemetry collars	on moose to track movement and causes of mortality.	<ul> <li>Annually, or as determined using a risk based approach</li> </ul>	British Columbia		

Table 4. Population and Southern Mountain Caribou Habitat Monitoring, cont.

Activity Sub-Category:	Primary Prey Population Monitoring		
Scope:	Northern Group		
Actions		Target Timeline	Lead Party
Current			
Deploy moose collaring	programs in select Northern Group ranges, such as	Ongoing	British
Tweedsmuir and Wolver	rine, to provide information on moose distribution/habitat		Columbia
selection and causes of	mortality.		
Develop moose habitat	suitability models in select areas.	• Ongoing	British
			Columbia
Planned			
<ul> <li>Identify priority areas for</li> </ul>	or future surveys.	• 2018-2020	British
			Columbia
Scope:	Southern Group		
Actions		Target Timeline	Lead Party
Current			
Develop a method of as	sessing white-tailed deer influence on predator dynamics.	Ongoing	British
			Columbia
Review hunting allocation	on to assess reducing primary prey density on the landscape.	• Fall 2018- Winter 2019	British
			Columbia
Deploy moose collaring	programs in the Wells Gray South and Wells Gray North	Winter 2019	British
herds.	/		Columbia

Table 4. Population and Southern Mountain Caribou Habitat Monitoring, cont.

Activity Sub-Category: Predator Population Monitoring			
Scope:	All Southern Mountain Caribou (Central, Northern & Souther	n Groups)	
Actions		Target Timeline	Lead Party
Current			
Develop predator mana	agement decision tool for application to all herds to support	• 2019 - 2021	British
monitoring needs in rel	ation to predation management programs.	/	Columbia
Install telemetry collars	on selected wolf packs in Southern Mountain Caribou	Annually, or more frequently	British
habitat and applicable a	adjacent areas.	as determined using a risk	Columbia
		based approach	
Establish wolf pack size	and territory by monitoring telemetry collars.	Annually, or more frequently	British
		as determined using a risk	Columbia
		based approach	
Conduct track counts in	areas without collared wolves or where there is an unknown	Annually, or more frequently	British
or growing density of w	volves.	as determined using a risk	Columbia
		based approach	
Planned			1
<ul> <li>Assess and modify wolf</li> </ul>	population monitoring and tracking based on priority setting	• 2019 - 2021	British
as part of the overall Pr	ovincial Caribou Recovery Plan and through the development		Columbia
of herd plans, which wi	Il involve discussions with Indigenous partners and		
stakeholders.			
Assess opportunities to	conduct studies on other potential predators (e.g. cougar,	• 2019 - 2020	British
bear, and wolverine).			Columbia

Table 4. Population and Southern Mountain Caribou Habitat Monitoring, cont.

Activity Sub-Category:	Predator Population Monitoring		
Scope:	Southern Group		
Actions		Target Timeline	Lead Party
Current			
Continue to monitor telemetry collars on wolf packs in Southern Mountain Caribou     Ongoing		Ongoing	British
habitat and adjacent areas.			Columbia
Assess the need for additional telemetry collars based on the information collected		Ongoing	British
during wolf population/density surveys.			Columbia
Planned			
Deploy additional telemetry collars on wolves in the Wells Gray South and Wells		• Fall 2018 - Winter 2019	British
Gray North herd ranges. Columbia		Columbia	

Table 4. Population and Southern Mountain Caribou Habitat Monitoring, cont.

vity Sub-Category: Southern Mountain Caribou Habitat Monitoring		
e: All Southern Mountain Caribou (Central, Northern & Southern Groups)		
tions	Target Timeline	Lead Party
ırrent		
Conduct disturbance assessment and analysis to determine the extent of various	<ul> <li>Ongoing</li> </ul>	British
types of anthropogenic and natural disturbances in all Southern Mountain Caribou		Columbia
ranges.		
Assess and monitor Southern Mountain Caribou habitat suitability for primary prey.	<ul> <li>Annually, frequency</li> </ul>	British
	determined using a risk based	Columbia
	approach	
Conduct analysis of Southern Mountain Caribou habitat suitability and capability	Underway	British
assessments, including the development of methodologies for assessing habitat	,	Columbia
disturbance, the classification of remotely sensed data and the development of		
monitoring protocols.		
anned		
	•	
ope: Northern Group		
tions	Target Timeline	Lead Party
ırrent		_
Conduct modelling of Southern Mountain Caribou habitat suitability and scenario	Ongoing, frequency	British
modelling in select Northern Group ranges, such as the Tweedsmuir.	determined using a risk based	Columbia
	approach	
anned	-	1
Evaluate the effectiveness of implemented Southern Mountain Caribou habitat	To be determined	British

#### Table 5. Knowledge, Science and Research

Knowledge, science and research include assessing the effectiveness of all measures described herein.

Activity Sub-Category:	Studies and Indigenous Knowledge		
Scope:	All Southern Mountain Caribou (Central, Northern & Southern	rn Groups)	
Actions		Target Timeline	Lead Party
Current			
<ul> <li>Initial development of</li> </ul>	the Caribou Climate Prediction Model to contribute to	Ongoing	British
understanding the futu	re trajectories of current and future habitat for all Southern		Columbia
Mountain Caribou hero	ds in British Columbia.		
<ul> <li>Hold workshop for pro</li> </ul>	vincial staff to develop an approach for caribou science in the	Complete	British
province. Form a BC Ca	ribou Science Team and identify research gaps and current		Columbia
research activity in the	province, develop scientific/research priorities to be		
discussed by the BC-Ca	nada Caribou Recovery Science Committee.		
Developed BC-Canada	Caribou Recovery Science Committee Terms of Reference and	Draft Completed	British
of a list of collaborative	e science projects.		Columbia
			/Canada
Planned			
<ul> <li>Establish the British Co</li> </ul>	lumbia -Canada Caribou Recovery Science Committee.	• Fall 2018/Winter 2019	British
Establish a Traditional	Knowledge Working Group as part of this Committee.	Spring 2019 and onwards	Columbia
<ul> <li>Ensure there are linkage</li> </ul>	es between this committee and the British Columbia, Canada,		/Canada
West Moberly First Nat	tion and Saulteau First Nation Technical Working Group.		
<ul> <li>Implement, where feas</li> </ul>	sible, collaborative science projects recommended by the	• 2019 - 2021	British
British Columbia -Canada Caribou Recovery Science Committee.			Columbia
			/Canada
<ul> <li>Review and finalize the</li> </ul>	risk based approach to determine and prioritize Conservation	• 2018 -2019	British
and Recovery Measure	S.		Columbia
			/Canada

Table 5. Knowledge, Science and Research, cont.

Activity Sub-Category:	Studies and Indigenous Knowledge		
Scope:	Central Group		
Activities		Target Timeline	Lead Party
Planned			
Engage with West Mob	erly and Saulteau First Nations to include traditional	• 2019 -2021	British
knowledge as part of th	ne assessment of caribou information to support recovery in		Columbia
the Central Group and the implementation of the Caribou Recovery Partnership			
Agreement.			
Scope:	Northern Group		
Actions		Target Timeline	Lead Party
Current			
Complete the following	g research projects:	Ongoing	British
o Snow Depth, C	limate and Caribou Migration Study		Columbia
o Forest Stand Co	omposition and Structure Study		

#### **Table 6. Complementary Measures**

Complementary measures include communications, engagement and compliance and enforcement.

Activity Sub-Category:	Communications		
Scope: All Southern Mountain Caribou (Central, Northern & Southern Groups)			
Actions		Target Timeline	Lead Party
Current			
Continue ongoing engage	gement with recreation stakeholders around motor vehicle	Ongoing	British
closures in place for Sou	uthern Mountain Caribou.		Columbia
Conduct outreach via m	nedia and social media to promote compliance with	Ongoing	British
regulations that protect	Southern Mountain Caribou and habitat.		Columbia
Liaise with the public, si	nowmobile clubs and federations to promote compliance and	Ongoing	British
cooperation with snow	mobile closures.		Columbia
Planned			
Publish the Provincial C	aribou Recovery Plan on the internet.	Spring 2019	British
			Columbia
Prepare annual reports on the Provincial Caribou Recovery Plan and post on the		Annually	British
internet.			Columbia
Continue to improve British Columbia caribou webpage and ensure public		Spring 2019 for new updates	British
information related to Southern Mountain Caribou recovery, health, science and		and then as needed	Columbia
habitat management ar	e available in a timely manner.		
Engage with Indigenous	communities, stakeholders and public on the development	• Spring 2019 -2020	British
of the Phase 2 herd plai	ns.		Columbia

#### **Table 6. Complementary Measures, cont.**

Activity Sub-Category:	Communications		
Scope:	Northern Group		
Actions		Target Timeline	Lead Party
Current			
Continue participation in the Caribou Northern Inter-Agency Working Group with representatives from Alberta and NWT. The Working Group meets quarterly to exchange information on transboundary issues and interagency cooperation on Chinchaga and Calendar herds.		Ongoing	British Columbia
Planned			
Expand the Caribou No.	rthern Inter-Agency Working group to include representatives	• 2018-2019	British
from Yukon and include	the Liard, Little Rancheria, Swan, Atlin and Carcross herds.		Columbia

Activity Sub-Category:	Engagement		
Scope:	Central Group		
Actions		Target Timeline	Lead Party
Current			
Engage with West Moberly and Saulteau First Nations on Conservation and Recovery		<ul> <li>Ongoing</li> </ul>	British
Measures for the Central Group.			Columbia
Improve coordination of predator management activities with Alberta.		Ongoing	British
			Columbia
Planned			
Conduct engagement or	n herd plans for Central Group with Indigenous communities	• 2019-2020	British
and relevant stakeholde	ers.		Columbia

#### **Table 6. Complementary Measures, cont.**

Activity Sub-Category:	Engagement		
Scope:	Northern Group		
Actions		Target Timeline	Lead Party
Current			
Continue ongoing engage	gement with Indigenous peoples across Northern Group	Ongoing	British
ranges including, but no	t limited to, collaboration on operational projects.		Columbia
Continue engagement v	with recreation stakeholders around motor vehicle closures in	Ongoing	British
place for the Northern (	Group.		Columbia
Planned			
Conduct engagement o	n herd plans for Northern Group with Indigenous	• 2019-2020	British
communities and releva	ant stakeholders.		Columbia
Scope:	Southern Group		
Actions		Target Timeline	Lead Party
Current			
<ul> <li>Continue ongoing engage</li> </ul>	gement with Indigenous communities across Southern Group	Ongoing	British
ranges on potential coll	aborative projects.		Columbia
Continue to engage wit	h the Southern Working Group with representatives from	Ongoing	British
American states and tri	American states and tribal organizations on a semi-annually basis to exchange		Columbia
information and to facilitate cooperation on management of the South Selkirk herd			
which is transboundary	· -		
Planned			
Conduct engagement o	n herd plans for Southern Group with Indigenous	• 2019 - 2020	British
communities and relevant stakeholders.			Columbia

#### **Table 6. Complementary Measures, cont.**

Activity Sub-Category: Compliance and Enforcement			
Scope: All Southern Mountain Caribou (Central, Northern & Southern Groups)			
Actions		Target Timeline	Lead Party
Current			_
Conduct compliance and	d enforcement operations with the aim of protecting	<ul> <li>Ongoing</li> </ul>	British
Southern Mountain Car	ibou and habitat in areas that are closed to the use of		Columbia
snowmobiles/off road v	rehicles and motor vehicles across all Southern Mountain		
Caribou ranges.			
Conduct enforcement o	perations relating to the illegal harvest of Southern	Ongoing	British
Mountain Caribou and o	conduct investigations where illegal harvest of Southern		Columbia
Mountain Caribou has o	occurred.		
Enlist the support of age	encies external to the British Columbia government to assist	Ongoing	British
with compliance and en	forcement operations.		Columbia
Investigate and report of	on forestry and range issues impacting Southern Mountain	Ongoing	British
Caribou Habitat and ma	ike recommendations for improvement to practices and		Columbia
legislation.			
Enforcement of general	wildlife measures in Wildlife Habitat Areas and Ungulate	Ongoing	British
Winter Ranges.			Columbia
Planned			
Complement compliance	ce and enforcement efforts by attending appropriate venues	<ul> <li>Annually</li> </ul>	British
(i.e., trade shows, open	houses, etc.) to promote compliance with snowmobile		Columbia
closures.			