



COSEWIC

Committee on the Status of
Endangered Wildlife in Canada

COSEPAC

Comité sur la situation des
espèces en péril au Canada

Aboriginal Traditional Knowledge Subcommittee

Presented by: Roger Gallant



COSEWIC

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Endangered Wildlife in Canada

COSEPAC

Comité sur la situation des
espèces en péril au Canada

- Established in 1977
- Legally recognized under SARA in 2003



Species at Risk Act (2003):

- The purposes of this Act are to prevent wildlife species from being extirpated or becoming extinct
- To provide for the recovery of wildlife species that are extirpated, endangered or threatened as a result of human activity
- To manage species of special concern to prevent them from becoming endangered or threatened.



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Primary functions:

- Assess the status of, and identify threats to, wildlife species at risk using best available information
- Communicate assessments to the Canadian public and to government



SARA defines a 'wildlife species' to be:

- A species, subspecies, variety or geographically or genetically distinct population
- Wild by nature
- Native to Canada or has extended its range into Canada without human intervention (and has been present for at least 50 years)



- IUCN Criteria
- Responsible to Minister of Environment
- Secretariat via EC
- ATK Subcommittee
- Non-government advisory body
- National Scope



- **Government of Canada will consider COSEWIC designations when establishing the legal list of Species at Risk**
- Process is independent and transparent
- Best available scientific, Aboriginal, and community knowledge
- Does not consider social, political, economic, or personal consequences
- Limited funds and capacity



COSEWIC membership (31 voting members; ~ 60 people)

- Four votes from federal government (CWS, PCA, DFO, CMN)
- Thirteen votes from provinces/territories
- Three non-government science members
- Ten co-chairs of the species specialist subcommittees
- One co-chairs of the ATK subcommittee

COSEWIC is supported by 10 specialist subcommittees & the COSEWIC Secretariat



10 specialist subcommittees

- Amphibians and Reptiles
 - Arthropods
 - Birds
 - Freshwater Fish
 - Marine Fish
 - Marine Mammals
 - Molluscs
 - Mosses and Lichens
 - Terrestrial Mammals
 - Vascular Plants
-
- Aboriginal Traditional Knowledge Subcommittee



COSEWIC
Assessment and Update Status Report

on the

American marten
Martes americana atrata

Newfoundland population

in Canada



Newfoundland population - THREATENED
2007

COSEWIC
COMMITTEE ON THE STATUS OF
ENDANGERED WILDLIFE
IN CANADA



COSEPAC
COMITÉ SUR LA SITUATION
DES ESPÈCES EN PÉRIL
AU CANADA



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COSEWIC Assessment Summary

Assessment Summary – April 2007

Common name

American marten - Newfoundland population

Scientific name

Martes americana atrata

Status

Threatened

Reason for designation

Marten in Newfoundland have declined substantially over the last century. The current population consists of 300-600 mature marten in 5 subpopulations. It is still at risk because of snaring and trapping outside of protected areas and because of forest harvesting. A small decrease in population size would likely result in consideration for Endangered status. The marten is one of few land mammals native to Newfoundland and the sub-species is endemic to Canada.

Occurrence

Newfoundland

Status history

Designated Not at Risk in April 1979. Status re-examined and designated Threatened in April 1986. Status re-examined and designated Endangered in April 1996 and in May 2000. Status re-examined and designated Threatened in April 2007. Last assessment based on an update status report.

Designations

Category	Definition
Extinct	Species no longer exists
Extirpated	Species no longer exists in Canada, but exists elsewhere
Endangered	Species facing imminent extirpation or extinction
Threatened	Species likely to become endangered if limiting factors are not reversed.
Special Concern	Species has biological characteristics and identified threats that make it susceptible to decline.
Data Deficient	Available info is insufficient to determine if species' is eligible for assessment or to permit an assessment of the species' risk of extinction
Not At Risk	Species has been evaluated and found to be not at risk of extinction under current conditions



Aboriginal Traditional Knowledge Subcommittee (ATK SC)

2 Co-chairs & 10 members
(2 or 4 yrs)

Nominated by National
Aboriginal Organizations

- Inuit Tapiriit Kanatami
- Métis National Council,
- Native Women's Association
of Canada
- Assembly of First Nations
- Congress of Aboriginal
Peoples

Ministerial appointments

Status assessment only,
not SARA management or
recovery

Budget of \$250,000



Aboriginal Traditional Knowledge Subcommittee (ATK SC)

2 meetings

- Summer
- Fall
- Winter (if COSEWIC funding available)

Species Reports

- Source Reports
- Assessment Reports

Specialized Reports



What is ATK?

No official COSEWIC definition, but has the following elements:

- World view or way of knowing
- Ecological, utilitarian, social & spiritual values
- Long-term knowledge conveyed orally over many generations; localized & descriptive
- Information held by elders & resource users about species' biology
- Information in published reports or present-day information collected on Aboriginal lands



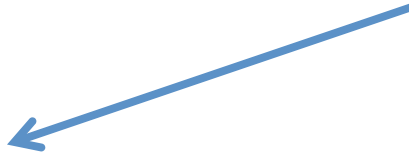
ATK that informs COSEWIC decisions

- Species distribution
- Habitat
- Population size
- Body condition
- Species interactions
- Potential threats
- Trends over time & space
- Existing management
- Aboriginal names

All species to be
assessed by
COSEWIC



ATK SC Prioritization of
Species



ATK Source Report

ATK Assessment
Report

ATK Gathering
Report



COSEWIC Status
Report

Decision Matrix

Aboriginal Traditional Knowledge Sub-Committee Source Report Analysis Tool

ATK-SC Decision Matrix

SPECIES NAME: *Alberta DU Rainbow Trout*

This worksheet data is supplied by the ATK-SC Co-Chairs.

Enter a "1" into the appropriate Score. Leave the other boxes blank.



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Criterion	Score 1	Score 2	Score 3	
Number of Aboriginal Communities and Organizations	Few (0-5)	Some (6-15)	Many (16+)	
			✓	
Spatial Distribution (Approximate # of Ecozones)	Local -1	Regional (2-4)	National (5+)	
		✓		
Accessibility of ATK	Low	Medium	High	
		✓		
Harvest Significance (e.g. food, clothing, trade, commercial)	Not Often Used	Secondary Use	Primary Use	
		✓		
Medicinal, Ritual or Spiritual Significance	Not Often Used	Secondary Use	Primary Use	
			✓	
ATK Benefit to Assessment	Low	Medium	High	
			✓	
	0	6	9	15

Decision Matrix

Aboriginal Traditional Knowledge Sub-Committee Source Report
Analysis Tool

ATK-SC Decision Matrix

SPECIES NAME: Alberta DU Rainbow Trout

This worksheet data is supplied by the ATK-SC Co-Chairs.

Enter a "1" into the appropriate Score. Leave the other boxes blank.



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		✓		
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		✓		
Medicinal, Ritual or Spiritual Significance	Not Often Used	Secondary Use	Primary Use	
			✓	
ATK Benefit to Assessment	Low	Medium	High	
			✓	
	0	6	9	15

- 6-9 – Minimal Effort
- 10-12 – Development of ATK Source Report
- 13-15 – Development of ATK Source Report and Assessment Report
- 16-18 – Development of larger ATK Source Report and Assessment Report



COSEWIC ATK Source Report

Steller Sea Lion (*Eumetopias jubatus*) Aboriginal Traditional Knowledge Source Report
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FROM THE CO-CHAIR OF THE ATK SUBCOMMITTEE OF COSEWIC

Aboriginal Traditional Knowledge Source Report

prepared for the

ATK Subcommittee of COSEWIC
COMMITTEE ON THE STATUS OF ENDANGERED WILDLIFE
IN CANADA

on

Steller Sea Lion
Eumetopias jubatus

in Canada

prepared by

Gloria Goulet, Winnipeg, MB

completed on

August 31, 2011

Aboriginal Traditional Knowledge Source Report

Anticipated COSEWIC Assessment Date: November 2012

Funding provided by Environment Canada

FOR FURTHER INFORMATION, PLEASE CONTACT COSEWIC.

1

Aboriginal Traditional Knowledge Sub-Committee Source Report Analysis Tool

Evaluation Spreadsheet

NOTE: will accommodate 150 ATK sources for the species

To add more rows just insert within the center of the table and all formulas will remain intact.

IMPORTANT: Every listed source within the table must have a value placed in the row's cells.



COSEWIC
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Source ID #	ATK Availability (check all applicable) 0 = no 1 = yes					ATK-SC and COSEWIC Criteria Evaluation (check all applicable) 0 = none 1 = some 2 = lots						ATK Age (ONLY one cell should have "1") 0 = no 1 = yes			Traditional Knowledge Diversity 0 = no 1 = yes		
	Published	Unknown	AFSAR	Indication of ATK	Requires Contact	Population	Distribution	Threats	Cultural Significance	Behaviour	Habitat	Recent	Historical	Both	First Nations	Métis	Inuit
1	X	✓	X	✓	✓	0	1	1	1	0	1	X	X	✓	✓	X	X
2	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
3	X	✓	X	X	✓	0	0	0	1	0	0	X	X	✓	✓	X	X
4	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
5	✓	✓	✓	✓	✓	0	0	0	1	1	0	X	X	✓	✓	X	X
6	X	✓	✓	X	X	0	0	0	0	0	0	X	X	X	✓	X	X
7	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
8	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
9	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
10	X	X	✓	X	X	0	0	0	0	0	0	X	X	X	✓	X	X
11	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
12	✓	✓	X	✓	✓	1	1	0	0	0	0	✓	X	X	✓	X	X
13	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
14	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
15	X	✓	✓	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
16	X	✓	✓	✓	✓	0	1	0	1	0	0	X	X	✓	✓	X	X
17	✓	✓	X	✓	✓	1	1	0	1	0	1	X	X	✓	✓	X	X
18	✓	✓	X	✓	✓	1	1	1	0	1	1	X	X	✓	✓	X	X
19	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
44	X	X	X	X	X	0	0	0	0	0	0	X	X	X	✓	X	X
45	X	X	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
46	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
47	X	✓	✓	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
48	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
49	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
50	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
51	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
52	✓	✓	X	X	✓	0	1	1	1	0	1	X	✓	X	✓	X	X
53	X	✓	X	X	✓	0	0	0	0	0	0	X	X	X	✓	X	X
54	✓	✓	X	X	✓	0	0	0	1	0	0	X	✓	X	✓	X	X
55	✓	✓	X	✓	✓	0	1	1	1	0	1	X	✓	X	✓	X	X
56	✓	1	✓	✓	✓	0	1	0	1	0	0	X	✓	X	✓	X	X
57	✓	✓	X	✓	✓	0	0	0	1	0	0	X	✓	X	✓	X	X
58	X	✓	X	✓	✓	0	1	0	1	0	0	X	✓	X	✓	X	X
59	X	✓	X	✓	✓	0	0	0	1	0	0	X	✓	X	✓	X	X
60	X	✓	X	✓	✓	0	0	0	1	0	0	X	✓	X	✓	X	X
61	X	✓	X	X	✓	0	1	0	1	0	1	X	✓	X	✓	X	X
61	14	56	5	16	52	56	47	55	47	58	53	1	9	8	60	1	0
						5	14	6	14	3	8						
						0	0	0	0	0	0						

General Information	
Species Name	Alberta DU Rainbow Trout
Date	19-01-2012
Decision Matrix Score	15
Total Sources Available	47

ATK Age Summary	
# with Historic ATK	11
# with Recent ATK	0
# with Both ATK	4

Availability Summary	
# of Published Reports	11
# of Unknown	6
# of AFSAR Projects	0
# of Potential Sources	15
# of Require Contacts	15

Traditional Knowledge Diversity	
# of First Nation Sources	45
# of Métis Sources	2 ¹
# of Inuit Sources	0
% of Sources First Nations	96%
% of Sources Métis	4%
% of Sources Inuit	0%

Criteria Evaluation Summary	
# of Sources without Population Data	47
# of Sources without Distribution Data	47
# of Sources without Threats Data	47
# of Sources without Cultural Sign. Data	32
# of Sources without Behaviour Data	47
# of Sources without Habitat Data	32
Some Data	
# of Sources with some Population Data	0
# of Sources with some Distribution Data	0
# of Sources with some Threats Data	0
# of Sources with some Cultural Sign. Data	15
# of Sources with some Behaviour Data	0
# of Sources with some Habitat Data	15
Lots of Data	
# of Sources with lots Population Data	0
# of Sources with lots Distribution Data	0
# of Sources with lots Threats Data	0
# of Sources with lots Cultural Sign. Data	0
# of Sources with lots Behaviour Data	0
# of Sources with lots Habitat Data	0



Completed Source Reports

- Grizzly bear
- White sturgeon
- Caribou (all DUs)
- Sockeye salmon (Fraser River)
- Haida Gwaii slug
- Eastern box turtle
- Steller sea lion
- Spotted turtle
- Plains and wood bison
- Beluga
- Lake Sturgeon DUs 1-4
- Lake Sturgeon DUs 5-8
- Harbour Porpoise (Northwest Atlantic)
- Cassin's auklet
- Atlantic walrus
- *Seligeria careyana* (Limestone Moss)
- Butternut
- Wolverine
- Shortjaw cisco
- Mormon metalmark
- Blue ash
- Green sturgeon
- Athabasca rainbow trout (Alberta DU)
- Sockeye Salmon (Fraser River)
- Chinook Salmon
- Grey Whale
- Narwhal



COSEWIC ATK Assessment Report

Grizzly Bear (*Ursus arctos*) Aboriginal Traditional Knowledge Assessment Report
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FROM A CO-CHAIR OF THE ATK SUBCOMMITTEE OF COSEWIC

Aboriginal Traditional Knowledge Assessment Report

prepared for the

ATK Subcommittee of COSEWIC
COMMITTEE ON THE STATUS OF ENDANGERED
WILDLIFE IN CANADA

on

Grizzly Bear
Ursus arctos

in Canada

prepared by

Donna Hurlburt

PO Box 114, Annapolis Royal, NS B0S 1A0

completed on

March 2011

Aboriginal Traditional Knowledge
Assessment Report

Anticipated COSEWIC Assessment Date: April 2012

Funding provided by Environment Canada



Completed Assessment Reports

- Grizzly bear
- Caribou (All Designatable units)
- Sockeye salmon (Fraser River)
- Atlantic Walrus
- Beluga Whale
- Plains and Wood Bison



Completed Targeted Project

- Grizzly bear (Southern range)
- Bobwhite
- Eastern & Midland Painted Turtle



Special Projects

- Beluga DU Report (ATK-based)
- Candidate justification of Black ash (COSEWIC process)
- Candidate justification of Black ash (ATK perspective only)
- Guidance documents on ATK integration for status report authors, SSCs & COSEWIC
- Narwhal ATK Gathering Project proposal



Summary

- COSEWIC is non-government
- Develops status report for species at risk
- Advises the government on the status of wildlife in Canada

- Aboriginal Traditional Knowledge Subcommittee participates in the COSEWIC process to ensure the proper use of ATK within status reports.



Thank You

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