

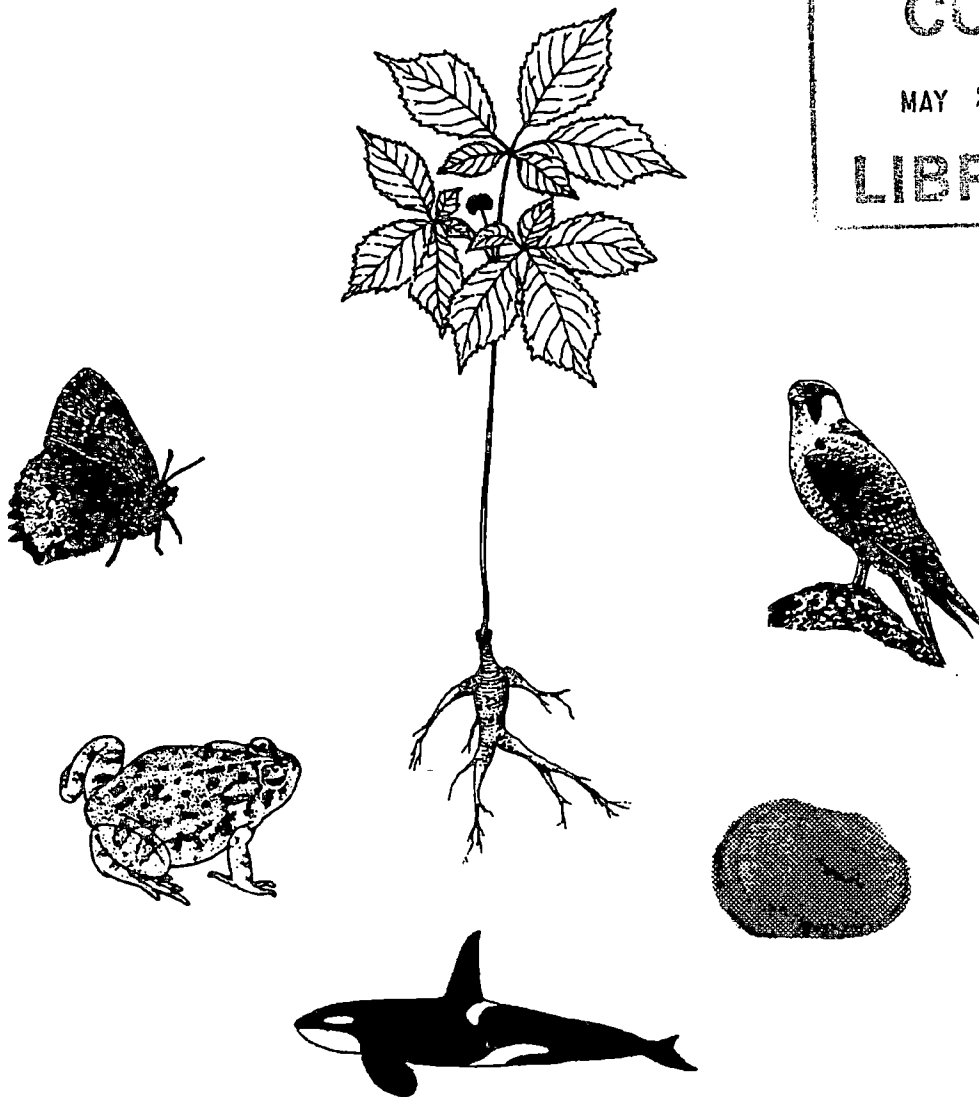
CANADIAN SPECIES AT RISK

APRIL 1999

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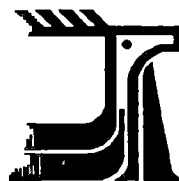
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COSEPAC
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ESPÈCES EN PÉRIL
AU CANADA



COSEWIC
COMMITTEE ON THE STATUS
OF ENDANGERED WILDLIFE
IN CANADA

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Cover illustrations:

Prairie Falcon	- C. Douglas, Canadian Museum of Nature, Ottawa
Fowler's Toad	- C. Douglas, Canadian Museum of Nature, Ottawa
Northern Riffleshell	- K.S. Cummings & C.A. Mayer, Illinois Natural History Survey
Killer Whale	- E. Haber, National Botanical Services, Ottawa
American Ginseng	- E. Haber, National Botanical Services, Ottawa
Frosted Elfin	- L. Packer, York University, Toronto

This list can be cited as follows:

COSEWIC, 1999. Canadian Species at Risk, April 1999. Committee on the Status of Endangered Wildlife in Canada. 26 pp.

COSEWIC LISTS

The first COSEWIC "Endangered Species List" was issued in 1978. Around 1990 a decision was made that all species considered by COSEWIC should be listed even if the species were "not at risk" or "indeterminate". Therefore, this document is divided into three separate lists under the title "Canadian Species at Risk":

List 1: Species Designated in the Five "Risk" Categories With Current Geographical Occurrence. (This is COSEWIC's "official" list of species at risk.)

List 2: Species Examined and Designated in the Not at Risk Category, With Geographical Occurrence and Date Examined.

List 3: Species Examined and Designated in the Indeterminate Category Because of Insufficient Scientific Information, With Geographical Occurrence and Date Examined.

Five summary tables provide the numbers of species by taxonomic category for the three lists (species at risk, species not at risk, and indeterminate species) as well as species that have been delisted and species which have had their status reexamined at least once.

A Record of Status Reexaminations can be found at the back of the document.

SUMMARY TABLES

COSEWIC LIST 1: SPECIES AT RISK (ALL RISK CATEGORIES) – APRIL 1999

CATEGORY (STATUS)	BIRDS	MAMMALS (TERR.)	MAMMALS (MARINE)	FISH	MOLLUSCA	LEPIDOPTERA	VASCULAR PLANTS	LICHENS	MOSES	AMPHIBIANS	REPTILES	TOTALS
EXTINCT	3	1	1	6	1	0	0	0	0	0	0	12
EXTIRPATED	2	2	2	2	1	3	2	0	0	0	1	15
ENDANGERED	18 ¹	6	6	4	4	1	40 ²	1	0	2	4	88
THREATENED	7	5	5	18 ³	2	0	30 ⁴	0	1	1	6	75
VULNERABLE	22 ⁵	19 ⁶	8	42	0	1	39 ⁷	3	0	9	8	151
TOTALS	52	33	22	72	8	5	111	4	1	12	19	339

COSEWIC LIST 2: SPECIES NOT AT RISK – APRIL 1999

CATEGORY (STATUS)	BIRDS	MAMMALS (TERR.)	MAMMALS (MARINE)	FISH	MOLLUSCA	LEPIDOPTERA	VASCULAR PLANTS	LICHENS	MOSES	AMPHIBIANS	REPTILES	TOTALS
TOTAL NAR	35	12	35	30	0	0	16	0	0	7	1	138

COSEWIC LIST 3: INDETERMINATE SPECIES – APRIL 1999

CATEGORY (STATUS)	BIRDS	MAMMALS (TERR.)	MAMMALS (MARINE)	FISH	MOLLUSCA	LEPIDOPTERA	VASCULAR PLANTS	LICHENS	MOSES	AMPHIBIANS	REPTILES	TOTALS
TOTAL INDETERMINATE	3	5	4	7	1	0	4	0	0	0	0	24

¹ Two birds reexamined in 1999 with no change in designation: Northern Spotted Owl (formerly listed as Spotted Owl) and Kirtland's Warbler

² Seven plants reexamined in 1999 with no change in designation: Gettlinger's Agalinis; Skinner's Agalinis; Eastern Mountain Avens; Slender Bush Clover; Pink Coreopsis; Small White Lady's Slipper; Cucumber Tree

³ Two fish reexamined in 1999 with no change in designation: Paxton Lake Benthic Stickleback and Paxton Lake Limnetic Stickleback (formerly listed as Benthic Texada Island Stickleback and Limnetic Texada Island Stickleback)

⁴ Two plants reexamined in 1999 with no change in designation: Plymouth Gentian, Golden Crest

⁵ Four birds reexamined in 1999 with no change in designation: Least Bittern, Peale's Peregrine Falcon, Barn Owl (BC population), Flammulated Owl

⁶ Two terrestrial mammals reexamined in 1999 with no change in designation: Polar Bear, Black-tailed Prairie Dog

⁷ Two plants reexamined in 1999 with no change in designation: Shumard Oak and Indian Plantain

SUMMARY TABLES (CONTINUED)

COSEWIC: DELISTED SPECIES - APRIL 1999

CATEGORY (STATUS)	BIRDS	MAMMALS (TERR.)	MAMMALS (MARINE)	FISH	MOLLUSCA	LEPIDOPTERA	VASCULAR PLANTS	lichens	MOSSES	AMPHIBIANS	REPTILES	TOTALS
TOTAL SPECIES DELISTED	8 ^a	2	0	1	0	0	1 ^b	0	0	0	0	12

COSEWIC: SPECIES RE-EXAMINED - APRIL 1999

CATEGORY (STATUS)	BIRDS	MAMMALS (TERR.)	MAMMALS (MARINE)	FISH	MOLLUSCA	LEPIDOPTERA	VASCULAR PLANTS	lichens	MOSSES	AMPHIBIANS	REPTILES	TOTALS
TOTAL SPECIES REEXAMINED	36	18	7	10	0	0	32	0	0	1	0	104

^a Caspian Tern and Prairie Warbler delisted in 1999

^b Tyrrell's Willow delisted in 1999

COSEWIC Mandate

COSEWIC determines the national status of wild species, subspecies, varieties and nationally significant populations that are considered to be at risk in Canada. Designations are made on all native species for the following groups: fish, amphibians, reptiles, birds, mammals, molluscs, lepidoptera, vascular plants, mosses and lichens.

Three primary lists are maintained: 1) species designated at risk; 2) species examined and designated not at risk; 3) species examined for which status is indeterminate because of insufficient scientific information. A record of status re-examinations is also maintained. Species examined more than once are identified, and those added in the current year are shown in boxes

COSEWIC Membership

COSEWIC is comprised of representatives from each provincial and territorial government wildlife agency, four federal agencies (Canadian Wildlife Service, Parks Canada, Fisheries and Oceans, Canadian Museum of Nature), three national conservation organizations (Canadian Nature Federation, Canadian Wildlife Federation, and World Wildlife Fund Canada) and the chairs of the scientific subcommittees. The Committee meets annually in April to consider status reports on candidate species.

Definition of Terms and Risk Categories

Species	Any indigenous species, subspecies, variety or geographically defined population of wild fauna and flora.
Extinct (X)	A species that no longer exists.
Extirpated (XT)	A species no longer existing in the wild in Canada, but occurring elsewhere.
Endangered (E)	A species facing imminent extirpation or extinction.
Threatened (T)	A species likely to become endangered if limiting factors are not reversed.
Vulnerable (V)	A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events.
Not at Risk (NAR)	A species that has been evaluated and found to be not at risk.
Indeterminate (I)	A species for which there is insufficient scientific information to support status designation.

Symbols and Abbreviations

+	Species transferred from the "rare" to vulnerable category when the former was replaced by COSEWIC in 1990.
++	Status determination in 1985 based on historic records only. Report prepared and given approval by COSEWIC in 1994.
↑	Species re-examined and moved to a higher risk category.
↓	Species re-examined and moved to a lower risk category.
↔	Species re-examined and not moved to another category
◆	Moved from indeterminate list to vulnerable category.
◆◆	Moved from endangered category to indeterminate list.

Geographical Location

AB Alberta	NT Northwest Territories
BC British Columbia	NU Nunavut
MB Manitoba	ON Ontario
NB New Brunswick	PE Prince Edward Island
NF Newfoundland	QC Quebec
NS Nova Scotia	SK Saskatchewan
	YT Yukon Territory

**LIST 1. SPECIES DESIGNATED IN THE FIVE "RISK" CATEGORIES WITH
CURRENT GEOGRAPHICAL OCCURRENCE AND THE YEAR OF
DESIGNATION^{1 2}**

EXTINCT CATEGORY

MAMMALS

Caribou, Woodland (<i>Rangifer tarandus dawsoni</i>) ³	(Queen Charlotte Islands population) BC	1984
Mink, Sea (<i>Mustela macrodon</i>) ⁴	(Atlantic coastal waters)	1986

BIRDS

++ Auk, Great (<i>Pinguinus impennis</i>) ⁵	NB, NF, NS, QC	1985
++ Duck, Labrador (<i>Camptorhynchus labradorius</i>) ⁶	NB, NF, NS, QC	1985
++ Pigeon, Passenger (<i>Ectopistes migratorius</i>) ⁷	MB, NB, NS, ON, PE, QC, SK	1985

AMPHIBIANS

REPTILES

FISH

Cisco, Deepwater (<i>Coregonus johannae</i>) ⁸	ON	1988
Cisco, Longjaw (<i>Coregonus alpenae</i>) ⁹	ON	1985
Dace, Banff Longnose (<i>Rhinichthys cataractae smithi</i>) ¹⁰	AB	1987
Stickleback, Benthic Hadley Lake (<i>Gasterosteus</i> sp.)	BC	1999
Stickleback, Limnetic Hadley Lake (<i>Gasterosteus</i> sp.)	BC	1999
Walleye, Blue (<i>Stizostedion vitreum glaucum</i>) ¹¹	ON	1985

1 Former distribution for extinct species are shown on pages 1 and 2.

2 Canadian breeding and wintering distribution is indicated for birds.

3 Extinct by the 1920's.

4 Extinct since 1894.

5 Extinct since 1844.

6 Became extinct in about 1875.

7 Extinct since 1914.

8 Extinct since 1952.

9 Extinct since 1975.

10 Extinct since 1986.

11 Extinct since 1965.

LIST 1. (CONTINUED)

EXTINCT CATEGORY (CONTINUED)

MOLLUSCS

Limpet, Eelgrass (*Lottia alveus*)¹²

NF, NS, QC

1996

LEPIDOPTERANS

PLANTS

—

LICHENS

—

MOSSES

—

EXTIRPATED CATEGORY

MAMMALS

↑ Bear, Grizzly (*Ursus arctos*)¹³

(Prairie population) AB, MB, SK

1991

Ferret, Black-footed (*Mustela nigripes*)¹⁴

AB, MB, SK

1978

Walrus, Atlantic (*Odobenus rosmarus rosmarus*)¹⁵

(Northwest Atlantic coastal waters)

1987

Whale, Gray (*Eschrichtius robustus*)¹⁶

(Atlantic population)

1987

BIRDS

Grouse, Sage (*Centrocercus urophasianus phalos*)¹⁷

(British Columbia population) BC

1997

↑ Prairie-Chicken, Greater¹⁸

AB, MB, ON, SK

1990

(*Tympanuchus cupido*)

AMPHIBIANS

—

REPTILES

Lizard, Pygmy Short-horned¹⁹

(BC population) BC

1992

(*Phrynosoma douglassii douglassii*)

12 Extinct since 1929.

13 Extirpated from Prairies in 1880's.

14 Considered extirpated by Banfield, 1974.

15 About 1850.

16 Prior to 1800.

17 Has not been reported since 1960's.

18 Last reported in Saskatchewan in 1987.

19 Last reported in 1898 near Osoyoos, BC.

LIST 1. (CONTINUED)

EXTIRPATED CATEGORY (CONTINUED)

FISH

↑ Chub, Gravel (<i>Erimystax x-punctatus</i>) ²⁰	ON	1987
Paddlefish (<i>Polyodon spathula</i>) ²¹	ON	1987

MOLLUSCS

Wedgemussel, Dwarf (<i>Alasmidonia heterodon</i>)	NB	1999
--	----	------

LEPIDOPTERANS

Butterfly, Frosted Elfin (<i>Caolophrys [Incisalia] irus</i>)	ON	1999
Butterfly, Island Marble (<i>Euchloe ausonides</i>)	BC	1999
Butterfly, Karner Blue ²² (<i>Lycæides melissa samuelis</i>)	ON	1997

PLANTS

Blue-eyed Mary (<i>Collinsia verna</i>) ²³	ON	1987
Trefoil, Illinois Tick ²⁴ (<i>Desmodium illinoense</i>)	ON	1991

LICHENS

—

MOSESSES

—

ENDANGERED CATEGORY

MAMMALS

↑ Caribou, Peary (<i>Rangifer tarandus pearyi</i>)	(Banks Island population) NT, NU	1991
↑ Caribou, Peary (" " ")	(High Arctic population) NT, NU	1991
↓ Fox, Swift (<i>Vulpes velox</i>)	AB, SK	1998
↔ Marmot, Vancouver Island (<i>Marmota vancouverensis</i>)	BC	1997
↑ Marten, American (<i>Martes americana atrata</i>)	(Newfoundland population) NF	1996
Whale, Bowhead (<i>Balaena mysticetus</i>)	(Eastern Arctic population)	1980
↔ Whale, Bowhead (" ")	(Western Arctic population)	1986
↔ Whale, Right (<i>Eubalaena glacialis</i>)	(Atlantic and Pacific Oceans)	1990
↔ Whale, White (Beluga) (<i>Delphinapterus leucas</i>)	(St. Lawrence River population) QC	1997
Whale, White (Beluga) (" ")	(Ungava Bay population) NT, NU	1988
Whale, White (Beluga) (" ")	(Southeast Baffin Island - Cumberland Sound population) NT, NU	1990
↑ Wolverine (<i>Gulo gulo</i>)	(Eastern population) QC, NF (Labrador)	1989

20 Last recorded in 1958 in Thames River drainage, southern Ontario.

21 Disappeared in approximately 1917.

22 No sightings since 1991.

23 No sight records since 1954.

24 No sight records since 1888.

LIST 1. (CONTINUED)

ENDANGERED CATEGORY (CONTINUED)

BIRDS

	Bobwhite, Northern (<i>Colinus virginianus</i>)	ON	1994
	Crane, Whooping (<i>Grus americana</i>)	NT, NU	1978
	Curlew, Eskimo (<i>Numenius borealis</i>)	NT, NU	1978
	Duck, Harlequin (<i>Histrionicus histrionicus</i>)	(Eastern population) NB, NF, NS, QC	1990
	Flycatcher, Acadian (<i>Empidonax virescens</i>)	ON	1994
↑	Grouse, Sage (<i>Centrocercus urophasianus urophasianus</i>)	(Prairie population) AB, SK	1998
↑	Owl, Barn (<i>Tyto alba</i>)	(Eastern population) ON	1999
↑	Owl, Burrowing (<i>Speotyto cunicularia</i>)	AB, BC, MB, SK	1995
↔	Owl, Northern Spotted ²⁵ (<i>Strix occidentalis caurina</i>)	BC	1999
	Plover, Mountain (<i>Charadrius montanus</i>)	AB, SK	1987
↑	Plover, Piping (<i>Charadrius melodus</i>)	AB, MB, NB, NF, NS, ON, PE, QC, SK	1985
↑	Rail, King (<i>Rallus elegans</i>)	ON	1994
↑	Shrike, Loggerhead (<i>Lanius ludovicianus migrans</i>)	(Eastern population) MB, ON, QC	1991
↑	Sparrow, Henslow's (<i>Ammodramus henslowii</i>)	ON	1993
↑	Tern, Roseate (<i>Sterna dougallii</i>)	NS, QC	1999
	Thrasher, Sage (<i>Oreoscoptes montanus</i>)	AB, BC, SK	1992
↔	Warbler, Kirtland's (<i>Dendroica kirtlandii</i>)	ON, QC	1999
↑	Warbler, Prothonotary (<i>Protonotaria citrea</i>)	ON	1996

AMPHIBIANS

	Frog, Northern Cricket ²⁶ (<i>Acris crepitans</i>)	ON	1990
	Frog, Northern Leopard (<i>Rana pipiens</i>)	(Southern Mountain population) BC	1998

REPTILES

	Snake, Blue Racer, (<i>Coluber constrictor foxii</i>)	ON	1991
	Snake, Lake Erie Water (<i>Nerodia sipedon insularum</i>)	ON	1991
	Snake, Sharp-tailed (<i>Contia tenuis</i>)	BC	1999
	Turtle, Leatherback (<i>Dermochelys coriacea</i>)	(Atlantic and Pacific Oceans)	1981

FISH

	Dace, Nooksack (<i>Rhinichthys</i> sp.)	BC	1996
	Sucker, Salish (<i>Catostomus</i> sp.)	BC	1986
	Trout, Aurora (<i>Salvelinus fontinalis timagamiensis</i>)	ON	1987
	Whitefish, Atlantic ²⁷ (<i>Coregonus huntsmani</i>)	NS	1984

MOLLUSCS

	Bean, Rayed (<i>Villosa fabalis</i>)	ON	1999
	Lampmussel, Wavy-rayed (<i>Lampsilis fasciola</i>)	ON	1999
	Physa, Hotwater (<i>Physella wrightii</i>)	BC	1998
	Riffleshell, Northern (<i>Epioblasma torulosa rangiana</i>)	ON	1999

25 Formerly listed as Spotted Owl (*Strix occidentalis*)
 26 Formerly listed as Blanchard's Cricket Frog (*Acris crepitans blanchardi*)
 27 Formerly listed as Acadian Whitefish (*Coregonus huntsmani*)

LIST 1. (CONTINUED)

ENDANGERED CATEGORY (CONTINUED)

LEPIDOPTERANS

Butterfly, Maritime Ringlet
(*Coenonympha tullia nipisiquit*)

NB, QC

1997

PLANTS

↔	Agalinis, Gattinger's (<i>Agalinis gattingeri</i>)	ON	1999
↔	Agalinis, Skinner's (<i>Agalinis skinneriana</i>)	ON	1999
	Ammania, Scarlet (<i>Ammannia robusta</i>)	BC, ON	1999
↔	Avens, Eastern Mountain (<i>Geum peckii</i>)	NS	1999
	Balsamroot, Deltoid (<i>Balsamorhiza deltoidea</i>)	BC	1996
↑	Bluehearts (<i>Buchnera americana</i>)	ON	1998
	Braya, Long's (<i>Braya longii</i>)	NF	1997
	Buttercup, Water-plantain (<i>Ranunculus alismaefolius</i> var. <i>alismaefolius</i>)	BC	1996
↔	Cactus, Eastern Prickly Pear (<i>Opuntia humifusa</i>)	ON	1998
	Clover, Bearded Owl (<i>Triphysaria versicolor</i> ssp. <i>versicolor</i>)	BC	1998
↔	Clover, Slender Bush (<i>Lepedeza virginica</i>)	ON	1999
↔	Coreopsis, Pink (<i>Coreopsis rosea</i>)	NS	1999
	Cryptanthe, Tiny (<i>Cryptantha minima</i>)	AB, SK	1998
↔	Fern, Southern Maidenhair (<i>Adiantum capillus-veneris</i>)	BC	1998
	Gentian, White Prairie (<i>Gentiana alba</i>)	ON	1991
↑	Ginseng, American (<i>Panax quinquefolium</i>)	ON, QC	1999
	Goldenrod, Showy (<i>Solidago speciosa</i> var. <i>rigidiuscula</i>)	ON	1999
↔	Lady's-slipper, Small White (<i>Cypripedium candidum</i>)	MB, ON	1999
	Lotus, Seaside Birds-foot (<i>Lotus formosissimus</i>)	BC	1996
↔	Lousewort, Furbish's (<i>Pedicularis furbishiae</i>)	NB	1998
	Lupine, Prairie (<i>Lupinus lepidus</i> var. <i>lepidus</i>)	BC	1996
↔	Milkwort, Pink (<i>Polygala incarnata</i>)	ON	1998
↔	Mint, Hoary Mountain (<i>Pycnanthemum incanum</i>)	ON	1998
	Mouse-ear-cress, Slender (<i>Hallimolobos virgata</i>)	AB, SK	1992
↑	Mulberry, Red (<i>Morus rubra</i>)	ON	1999
	Orchid, Western Prairie White Fringed (<i>Platanthera praeclara</i>)	MB	1993
↔	Plantain, Heart-leaved (<i>Plantago cordata</i>)	ON	1998
↔	Pogonia, Large Whorled (<i>Isotria verticillata</i>)	ON	1998
↑	Pogonia, Nodding (<i>Triphora trianthophora</i>)	ON	1999
↔	Pogonia, Small Whorled (<i>Isotria medeoloides</i>)	ON	1998
	Poppy, Wood (<i>Stylophorum diphyllum</i>)	ON	1993
	Quillwort, Engelmann's (<i>Isoetes engelmannii</i>)	ON	1992
	Sedge, Juniper (<i>Carex juniperorum</i>)	ON	1999
	Sundew, Thread-leaved (<i>Drosera filiformis</i>)	NS	1991
↑	Thistle, Pitcher's (<i>Cirsium pitcheri</i>)	ON	1999
	Toothcup (<i>Rotala ramosior</i>)	BC, ON	1999
↔	Tree, Cucumber (<i>Magnolia acuminata</i>)	ON	1999
	Trillium, Drooping (<i>Trillium flexipes</i>)	ON	1996
↑	Twayblade, Purple (<i>Liparis lilifolia</i>)	ON	1999
↔	Wintergreen, Spotted (<i>Chimaphila maculata</i>)	ON	1998

LIST 1. (CONTINUED)

ENDANGERED CATEGORY (CONTINUED)

LICHENS

Seaside Centipede

(Heterodermia stichensis)

BC

1996

MOSSES

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THREATENED CATEGORY

MAMMALS

↓	Bison, Wood (<i>Bison bison athabasca</i>)	AB, BC, NT, NU, YT	1988
↔	Caribou, Peary (<i>Rangifer tarandus pearyi</i>)	(Low Arctic population) NT, NU	1991
	Caribou, Woodland (<i>Rangifer tarandus caribou</i>)	(Gaspé population) QC	1984
	Mole, Townsend's (<i>Scapanus townsendii</i>)	BC	1996
↓	Otter, Sea (<i>Enhydra lutris</i>)	(Pacific coastal waters)	1996
	Porpoise, Harbour (<i>Phocoena phocoena</i>)	(Northwest Atlantic population)	1991
	Shrew, Pacific Water (<i>Sorex bendirii</i>)	BC	1994
↔	Whale, Humpback (<i>Megaptera novaeangliae</i>)	(North Pacific population)	1985
	Whale, Killer (<i>Orcinus orca</i>)	(North Pacific "resident" populations)	1999
	Whale, White (Beluga) (<i>Delphinapterus leucas</i>)	(Eastern Hudson Bay population)	1988

BIRDS

	Chat, Yellow-breasted (<i>Icteria virens auricollis</i>)	(British Columbia population) BC	1994
↓	Falcon, Anatum Peregrine (<i>Falco peregrinus anatum</i>)	AB, BC, MB, NB, NF, NS, NT, NU, ON, QC, SK, YT	1999
	Murrelet, Marbled (<i>Brachyramphus marmoratus</i>)	BC	1990
	Pipit, Sprague's (<i>Anthus spraguelli</i>)	AB, MB, SK	1999
	Shrike, Loggerhead (<i>Lanius ludovicianus excubitorides</i>)	(Prairie population) AB, MB, SK	1986
	Warbler, Hooded (<i>Wilsonia citrina</i>)	ON	1994
	Woodpecker, White-headed (<i>Picoides albolarvatus</i>)	BC	1992

AMPHIBIANS

↑	Toad, Fowler's ²⁸ (<i>Bufo fowleri</i>)	ON	1999
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REPTILES

	Rattlesnake, Eastern Massasauga (<i>Stistrurus catenatus catenatus</i>)	ON	1991
	Snake, Black Rat (<i>Elaphe obsoleta obsoleta</i>)	ON	1998
	Snake, Eastern Fox (<i>Elaphe vulpina gloydi</i>)	ON	1999
	Snake, Queen (<i>Regina septemvittata</i>)	ON	1999
	Turtle, Blanding's (<i>Emydoidea blandingi</i>)	(Nova Scotia population) NS	1993
	Turtle, Spiny Softshell (<i>Apalone spinifera</i>)	ON, QC	1991

²⁸ Scientific name for Fowler's Toad formerly listed as *Bufo woodhousii fowleri*

LIST 1. (CONTINUED)

THREATENED CATEGORY (CONTINUED)

FISH

Cisco, Blackfin (<i>Coregonus nigripinnis</i>)	ON	1988
Cisco, Shortjaw (<i>Coregonus zenithicus</i>)	AB, MB, NT, ON, SK	1987
Cisco, Shortnose (<i>Coregonus reighardi</i>)	ON	1987
Darter, Channel (<i>Percina copelandi</i>)	ON, QC	1993
Darter, Eastern Sand (<i>Ammocrypta pellucida</i>)	ON, QC	1994
Lamprey, Morrison Creek (<i>Lampetra richardsoni</i>)	BC	1999
Madtom, Margined (<i>Noturus insignis</i>)	ON, QC	1989
Redhorse, Black (<i>Moxostoma duquesnei</i>)	ON	1988
Redhorse, Copper (<i>Moxostoma hubbsi</i>)	QC	1987
Sculpin, Deepwater (<i>Myoxocephalus thompsoni</i>)	ON (Great Lakes population)	1987
Sculpin, Shorthead (<i>Cottus confusus</i>)	BC	1984
Smelt, Lake Utopia Dwarf (<i>Osmerus</i> sp.)	NB	1998
↔ Stickleback, Benthic Paxton Lake ²⁹ (<i>Gasterosteus</i> sp.)	BC	1999
Stickleback, Benthic Vananda Creek (<i>Gasterosteus</i> sp.)	BC	1999
Stickleback, Enos Lake (<i>Gasterosteus</i> sp.)	BC	1988
↔ Stickleback, Limnetic Paxton Lake ³⁰ (<i>Gasterosteus</i> sp.)	BC	1999
Stickleback, Limnetic Vananda Creek (<i>Gasterosteus</i> sp.)	BC	1999
Whitefish, Lake Simcoe (<i>Coregonus clupeaformis</i>)	ON	1987

MOLLUSCS

Abalone, Northern (<i>Haliotis kamtschatkana</i>)	BC	1999
Snail, Banff Springs (<i>Physella johnsoni</i>)	AB	1997

LEPIDOPTERANS

PLANTS

Ash, Blue (<i>Fraxinus quadrangulata</i>)	ON	1983
Aster, Anticosti (<i>Aster anticostiensis</i>)	NB, QC	1990
Aster, White-top (<i>Aster curtus</i>)	BC	1996
Aster, White Wood (<i>Aster divaricatus</i>)	ON, QC	1995
Braya, Fernald's (<i>Braya fernaldii</i>)	NF	1997
Chestnut, American (<i>Castanea dentata</i>)	ON	1987
Colicroot (<i>Aletris farinosa</i>)	ON	1988
Deerberry (<i>Vaccinium stamineum</i>)	ON	1994
↔ Fern, Mosquito (<i>Azolla mexicana</i>)	BC	1998
Flag, Western Blue (<i>Iris missouriensis</i>)	AB, BC	1990
↔ Gentian, Plymouth (<i>Sabatia kennedyana</i>)	NS	1999
↔ Golden Crest (<i>Lophiola aurea</i>)	NS	1999
Golden Seal (<i>Hydrastis canadensis</i>)	ON	1991
Goat's-rue (<i>Tephrosia virginiana</i>)	ON	1996

²⁹ Formerly listed as Benthic Texada Island Stickleback³⁰ Formerly listed as Limnetic Texada Island Stickleback

LIST 1. (CONTINUED)

THREATENED CATEGORY (CONTINUED)

PLANTS (CONTINUED)

1994	Greenbrier, Round-leaved (<i>Smilax rotundifolia</i>)	ON	(Ontario population)
1994	Jacob's Ladder, van Brunt's (<i>Polemonium van-bruntiae</i>)	QC	
1992	Lipocarpus, Small-flowered (<i>Lipocarpus micrantha</i>)	BC, ON	
1995	Paintbrush, Golden (<i>Castilleja lewisii</i>)	BC	
1995	Pepperbush, Sweet (<i>Clethra alnifolia</i>)	NS	
1998	Prairie-clover, Hairy (<i>Dalea villosa</i> var. <i>villosa</i>)	MB, SK	
1998	Redroot (<i>Lochneranthus caroliniana</i>)	NS	
1994	Sedge, False Hop (<i>Carex lupuliformis</i>)	ON, QC	
1997	Spiderwort, Western (<i>Tradescantia occidentalis</i>)	AB, MB, SK	
1992	Tree, Kentucky Coffee (<i>Gymnocladus dioica</i>)	ON	
1983	Verbena, Sand (<i>Abroma micrantha</i>)	AB, SK	
1992	Violet, Bird's-foot (<i>Viola pedata</i>)	ON	
1990	Violet, Yellow Montane (<i>Viola praemorsa</i> ssp. <i>praemorsa</i>)	BC	
1995	Water-pennywort (<i>Hydrocotyle umbellata</i>)	NS	
1999	Water-willow, American (<i>Justicia americana</i>)	ON, QC	
1984	Woodstia, Blunt-lobed (<i>Woodstia obtusa</i>)	ON, QC	

LICHENS

MOSESSES

Moss, Apple (*Bartonia stricta*)

BC

1997

VULNERABLE CATEGORY

MAMMALS

1988	Bat, Fringed Myotis (<i>Myotis thysanodes</i>)	BC	
1988	Bat, Keen's Long-eared (<i>Myotis keenii</i>)	BC	
1988	Bat, Pallid (<i>Antrozous pallidus</i>)	BC	
1988	Bat, Spotted (<i>Euderma maculatum</i>)	BC	
1991	Bear, Grizzly (<i>Ursus arctos</i>)	AB, BC, NT, NU, YT	
1999	Bear, Polar (<i>Ursus maritimus</i>)	MB, NF, NT, NU, ON, QC	
1999	Beaver, Mountain (<i>Aplodontia rufa</i>)	BC	
+	Caribou, Woodland (<i>Rangifer tarandus caribou</i>)	(Western population) AB, BC, MB, NT, NU, ON, SK	
1984	Cottontail, Nuttall's (<i>Sylvilagus nuttalli nuttalli</i>)	(British Columbia population) BC	
1984	Ermine (<i>Mustela erminea haldarum</i>)	(Queen Charlotte Islands population) BC	
+	Fox, Grey (<i>Urocyon cinereoargenteus</i>)	AB, MB, ON, QC	
+	Mole, Eastern (<i>Scalopus aquaticus</i>)	ON	
1998	Mouse, Western Harvest (<i>Reithrodontomys megalotis megalotis</i>)	(British Columbia population) BC	
1994	+		
1999	+		
1999	Prairie Dog, Black-tailed (<i>Cynomys ludovicianus</i>)	SK	
1995	Rat, Ord's Kangaroo (<i>Dipodomys ordii</i>)	AB, SK	
1996	Seal, Harbour (<i>Phoca vitulina mellonae</i>)	(Lacs des loups marins population) 31QC	
31	Landlocked population.		

LIST 1. (CONTINUED)

VULNERABLE CATEGORY (CONTINUED)

MAMMALS (CONTINUED)

+ Shrew, Gaspé (<i>Sorex gaspensis</i>)	NB, NS, QC	1988
+ Squirrel, Southern Flying (<i>Glaucomys volans</i>)	NB, NS, ON, QC	1988
Vole, Woodland (<i>Microtus pinetorum</i>)	ON, QC	1998
+ Whale, Blue (<i>Balaenoptera musculus</i>)	(Atlantic and Pacific Oceans)	1983
+ Whale, Fin (<i>Balaenoptera physalus</i>)	(Atlantic and Pacific Oceans)	1987
+ ↓ Whale, Humpback (<i>Megaptera novaeangliae</i>)	(Western North Atlantic population)	1985
Whale, Killer (<i>Orcinus orca</i>)	(North Pacific "transient" population)	1999
Whale, Northern Bottlenose (<i>Hyperoodon ampullatus</i>)	(Atlantic Ocean) [Gully population]	1996
+ Whale, Sowerby's Beaked ³² (<i>Mesoplodon bidens</i>)	(Atlantic Ocean)	1989
Whale, White (Beluga) (<i>Delphinapterus leucas</i>)	(Eastern High Arctic/Baffin Bay population)	1992
+ ↔ Wolverine (<i>Gulo gulo</i>)	(Western population) AB, BC, MB, NT, NU, ON, SK, YT	1989

BIRDS

+ ↔ Bittern, Least (<i>Ixobrychus exilis</i>)	MB, NB, ON, QC	1999
Chat, Yellow-breasted (<i>Icteria virens virens</i>)	(Eastern population) ON	1994
+ ↔ Falcon, Peale's Peregrine, (<i>Falco peregrinus pealei</i>)	BC	1999
Curlew, Long-billed (<i>Numenius americanus</i>)	AB, BC, SK	1992
↓ Falcon, Tundra Peregrine, (<i>Falco peregrinus tundrius</i>)	NF, NT, NU, QC, YT	1992
Goshawk, Queen Charlotte (<i>Accipiter gentilis laingi</i>)	BC	1995
+ ↔ Gull, Ivory (<i>Pagophila eburnea</i>)	BC, MB, NB, NF, NS, NT, NU, ON, QC	1996
+ ↔ Gull, Ross' (<i>Rhodostethia rosea</i>)	MB, NT, NU	1996
↓ Hawk, Ferruginous (<i>Buteo regalis</i>)	AB, MB, SK	1995
+ ↔ Hawk, Red-shouldered (<i>Buteo lineatus</i>)	ON, QC	1996
Heron, Pacific Great Blue (<i>Ardea herodias fannini</i>)	BC	1997
Murrelet, Ancient (<i>Synthliboramphus antiquus</i>)	BC	1993
+ ↔ Owl, Barn (<i>Tyto alba</i>)	(Western population) BC	1999
+ ↔ Owl, Flammulated (<i>Otus flammeolus</i>)	BC	1999
Owl, Short-eared (<i>Asio flammeus</i>)	All provinces and territories	1994
Rail, Yellow (<i>Coturnicops noveboracensis</i>)	AB, MB, NB, NS, NT, NU, ON, QC, SK	1999
+ Sparrow, "Ipswich" Savannah (<i>Passerculus sandwichensis princeps</i>)	NS	1979
Thrush, Bicknell's (<i>Catharus bicknelli</i>)	NB, NS, QC	1999
Warbler, Cerulean (<i>Dendroica cerulea</i>)	ON, QC	1993
↔ Waterthrush, Louisiana (<i>Seiurus motacilla</i>)	ON, QC	1996
Woodpecker, Lewis' (<i>Melanerpes lewis</i>)	BC	1999
- Woodpecker, Red-headed (<i>Melanerpes erythrocephalus</i>)	MB, ON, QC, SK	1996

32 Also known as North Sea Beaked Whale.

LIST 1. (CONTINUED)

VULNERABLE CATEGORY (CONTINUED)

PLANTS (CONTINUED)

Hairgrass, Mackenzie (<i>Deschampsia mackenziana</i>)	SK	1999
+↓ Helleborine, Giant (<i>Epipactis gigantea</i>)	BC	1998
+ Hemlock, Victorin's Water (<i>Cicuta maculata</i> var. <i>victorinii</i>)	QC	1987
Hyacinth, Wild (<i>Camassia scilloides</i>)	ON	1990
+ Lilaeopsis (<i>Lilaeopsis chinensis</i>)	NS	1987
Locoweed, Hare-footed (<i>Oxytropis lagopus</i>)	AB	1995
+ Mallow, Swamp Rose (<i>Hibiscus moscheutos</i>)	ON	1987
+ Meadowfoam, Macoun's (<i>Limnanthes macounii</i>)	BC	1988
Milk-vetch, Fernald's (<i>Astragalus robbinsii</i> var. <i>fernaldii</i>)	NF, QC	1997
+↔ Oak, Shumard (<i>Quercus shumardii</i>)	ON	1999
+ Orchid, Eastern Prairie White Fringed (<i>Platanthera leucophaea</i>)	ON	1986
Orchid, Phantom (<i>Cephalanthera austinae</i>)	BC	1992
+↔ Plantain, Indian (<i>Cacalia plantaginea</i>)	ON	1999
+ Pondweed, Hill's (<i>Potamogeton hillii</i>)	ON	1986
Quillwort, Bolander's (<i>Isoetes bolanderi</i>)	AB	1995
+ Rose, Climbing Prairie (<i>Rosa setigera</i>)	ON	1986
Rue-anemone, False (<i>Isopyrum biernatum</i>)	ON	1990
Rush, New Jersey (<i>Juncus caesariensis</i>)	NS	1992
+ Soapweed (<i>Yucca glauca</i>)	AB	1985
+ Star, Dense Blazing (<i>Liatris spicata</i>)	ON	1988
↓ Thrift, Athabasca (<i>Armeria maritima</i> ssp. <i>interior</i>)	SK	1999
+ Tree, Hop (<i>Ptelea trifoliata</i>)	ON, QC	1984

LICHENS

Cryptic Paw (<i>Nephroma occultum</i>)	BC	1995
Oldgrowth Specklebelly (<i>Pseudocyphellaria rainierensis</i>)	BC	1996
Seaside Bone (<i>Hypogymnia heterophylla</i>)	BC	1996

MOSSES

**LIST 2. SPECIES EXAMINED AND DESIGNATED IN THE NOT AT RISK
CATEGORY, WITH GEOGRAPHICAL OCCURRENCE AND DATE
EXAMINED**

MAMMALS

	Badger, American (<i>Taxidea taxus</i>)	AB, BC, MB, ON, SK	1979
↔	Bear, American Black (<i>Ursus americanus</i>)	All provinces & territories except PE	1999
	Caribou, Woodland (<i>Rangifer tarandus caribou</i>)	(Labrador-Ungava population) NF, QC	1984
	Caribou, Woodland (" " ")	(Newfoundland population) NF	1984
↔	Cottontail, Nuttall's (<i>Sylvilagus nuttalli pinetis</i>)	(Prairie population) AB, SK	1994
	Dolphin, Atlantic White-sided (<i>Lagenorhynchus acutus</i>)	(Atlantic Ocean)	1991
	Dolphin, Bottlenose (<i>Tursiops truncatus</i>)	(Atlantic Ocean)	1993
	Dolphin, Common (<i>Delphinus delphis</i>)	(Atlantic and Pacific Oceans)	1991
	Dolphin, Northern Right Whale (<i>Liassodelphis borealis</i>)	(Pacific Ocean)	1990
	Dolphin, Pacific White-Sided (<i>Lagenorhynchus obliquidens</i>)	(Pacific Ocean)	1990
	Dolphin, Risso's (<i>Grampus griseus</i>)	(Atlantic and Pacific Oceans)	1990
	Dolphin, Striped (<i>Stenella coerulescens</i>)	(Atlantic and Pacific Oceans)	1993
	Dolphin, White-beaked (<i>Lagenorhynchus albirostris</i>)	(North Atlantic Ocean)	1998
↓	Gopher, Plains Pocket (<i>Geomys bursarius</i>)	MB	1998
	Lynx (<i>Lynx canadensis</i>)	All provinces and territories except PE	1989
↔	Narwhal (<i>Monodon monoceros</i>)	(Arctic Ocean)	1987
	Porpoise, Dall's (<i>Phocoenoides dalli</i>)	(Pacific Ocean)	1989
	Seal, Bearded (<i>Erignathus barbatus</i>)	(Arctic and Atlantic coastal waters)	1994
	Seal, Grey (<i>Halichoerus grypus</i>)	(Atlantic coastal waters)	1999
	Seal Harbour (<i>Phoca vitulina richardsi</i>)	(North Pacific coastal waters)	1999
	Seal, Hooded (<i>Cystophora cristata</i>)	(Atlantic coastal waters)	1986
	Seal, Northern Elephant (<i>Mirounga angustirostris</i>)	(Pacific coastal waters)	1986
	Seal, Northern Fur (<i>Callorhinus ursinus</i>)	(Pacific coastal waters)	1996
	Seal, Ringed (<i>Phoca hispida</i>)	(Arctic and Atlantic coastal waters)	1989
	Sea Lion, California (<i>Zalophus californianus</i>)	(Pacific coastal waters)	1987
	Sea Lion, Steller (<i>Eumetopias jubatus</i>)	(Pacific coastal waters)	1987
	Squirrel, Cascade Mantled Ground (<i>Spermophilus saturatus</i>)	BC	1992
	Squirrel, Fox (<i>Sciurus niger</i>)	MB, ON	1979
	Walrus, Atlantic (<i>Odobenus rosmarus rosmarus</i>)	(Eastern Arctic population)	1987
↓	Weasel, Long-tailed (<i>Mustela frenata longicauda</i>)	(Prairie population) AB, MB, SK	1993
	Whale, Baird's Beaked (<i>Berardius bairdii</i>)	(Pacific Ocean)	1992
	Whale, Blainville's Beaked (<i>Mesoplodon densirostris</i>)	(Atlantic Ocean)	1989
	Whale, Cuvier's Beaked (<i>Ziphius cavirostris</i>)	(Atlantic and Pacific Oceans)	1990
	Whale, False Killer (<i>Pseudorca crassidens</i>)	(Pacific Ocean)	1990
	Whale, Gray (<i>Eschrichtius robustus</i>)	(Northeast Pacific population)	1987
	Whale, Hubb's Beaked (<i>Mesoplodon carlhubbsi</i>)	(Pacific Ocean)	1989
	Whale, Long-finned Pilot (<i>Globicephala melas</i>)	(Atlantic Ocean)	1994
	Whale, Northern Bottlenose (<i>Hyperoodon ampullatus</i>)	(Atlantic Ocean)	1993
	Whale, Pygmy Sperm (<i>Kogia breviceps</i>)	(Atlantic and Pacific Oceans)	1994
	Whale, Short-finned Pilot (<i>Globicephala macrorhynchus</i>)	(Pacific Ocean)	1993
	Whale, Sperm (<i>Physeter macrocephalus</i>)	(Atlantic and Pacific Oceans)	1996

LIST 2. (CONTINUED)

MAMMALS (CONTINUED)

Whale, Stejneger's Beaked (<i>Mesoplodon stejnegeri</i>)	(Pacific Ocean)	1989
Whale, True's Beaked (<i>Mesoplodon mirus</i>)	(Atlantic Ocean)	1989
Whale, White (Beluga) (<i>Delphinapterus leucas</i>)	(Beaufort Sea/Arctic Ocean population)	1985
Whale, White (Beluga) (" ")	(Western Hudson's Bay population)	1993
Wolf, Gray (<i>Canis lupus occidentalis</i>)	AB, BC, MB, NF, NT, NU, ON, QC, SK, YK	1999
Wolf, Gray (<i>Canis lupus nubilus</i>)	BC	1999

BIRDS

+↓ Bluebird, Eastern (<i>Sialia sialis</i>)	AB, MB, NB, NS, ON, PE, QC, SK	1996
Chat, Yellow-breasted (<i>Icteria virens auricollis</i>)	(Prairie population) AB, SK	1994
Coot, American (<i>Fulica americana</i>)	All provinces/territories except NF	1991
Cormorant, Double-crested (<i>Phalacrocorax auritus</i>)	All provinces	1978
Crane, Greater Sandhill (<i>Grus canadensis tabida</i>)	BC, MB, ON	1979
Eagle, Bald (<i>Haliaeetus leucocephalus</i>)	All provinces and territories	1984
↔ Eagle, Golden (<i>Aquila chrysaetos</i>)	AB, BC, MB, NF, NT, ON, QC, SK, YT	996
↔ Falcon, Prairie (<i>Falco mexicanus</i>)	AB, BC, SK	1996
Flycatcher, Gray (<i>Empidonax griseus</i>)	BC	1992
Goshawk, Northern (<i>Accipiter gentilis atricapillus</i>)	All provinces and territories	1995
Grebe, Red-necked (<i>Podiceps grisegena</i>)	All provinces and territories except PE and NB	1982
↔ Gyrfalcon (<i>Falco rusticolus</i>)	AB, BC, NF, NS, NT, ON, PE, QC, SK, YT	1987
Harrier, Northern (<i>Circus cyaneus</i>)	All provinces and territories	1993
+↓ Hawk, Cooper's (<i>Accipiter cooperii</i>)	AB, BC, MB, NB, NS, ON, QC, SK	1996
Hawk, Red-tailed (<i>Buteo jamaicensis</i>)	All provinces and territories	1995
Hawk, Rough-legged (<i>Buteo lagopus</i>)	BC, MB, NF, NT, ON, QC, YT	1995
↔ Hawk, Sharp-shinned (<i>Accipiter striatus</i>)	All provinces and territories	1997
Hawk-Owl, Northern (<i>Surnia ulula</i>)	AB, BC, MB, NB, NF, NT, ON, QC, SK, YT	1992
Loon, Common (<i>Gavia immer</i>)	All provinces and territories	1997
Loon, Yellow-billed (<i>Gavia adamsii</i>)	AB, BC, MB, NT, QC, YT	1997
Merlin (<i>Falco columbarius</i>)	All provinces and territories	1985
Owl, Boreal (<i>Aegolius funereus</i>)	All provinces and territories	1995
+↓ Owl, Great Gray (<i>Strix nebulosa</i>)	AB, BC, MB, NT, ON, QC, SK, YT	1996
Owl, Snowy (<i>Nyctea scandiaca</i>)	MB, NF, NT, QC, YT	1995
↓ Pelican, American White (<i>Pelecanus erythrorhynchos</i>)	AB, BC, MB, ON, SK	1987
Screech-Owl, Eastern (<i>Otus asio</i>)	MB, ON, QC, SK	1986
↓ Sparrow, Baird's (<i>Ammodramus bairdii</i>)	AB, MB, SK	1996
Sparrow, Nelson's Sharp-tailed (<i>Ammodramus nelsoni</i>)	AB, BC, MB, NB, NS, ON, PE, QC, SK	1998
+↓ Swan, Trumpeter (<i>Cygnus buccinator</i>)	AB, BC, NT, ON, SK, YT	1996
↔ Tern, Black (<i>Chlidonias niger</i>)	AB, BC, MB, NB, NS, NT, ON, QC, SK	1996
↓ Tern, Caspian (<i>Sterna caspia</i>)	AB, BC, MB, NF, NT, NU, ON, QC, SK	1999
Tern, Common (<i>Sterna hirundo</i>)	AB, MB, NB, NF, NS, NT, ON, PE, QC, SK	1998
↓ Warbler, Prairie (<i>Dendroica discolor</i>)	ON	1999
Wren, Canyon (<i>Catherpes mexicanus</i>)	BC	1992
Wren, Sedge (<i>Cistothorus platensis</i>)	AB, MB, NB, ON, QC, SK	1993

LIST 2. (CONTINUED)

AMPHIBIANS

Ensatina (<i>Ensatina eschscholtzii</i>)	BC	1999
Frog, Northern Leopard (<i>Rana pipiens</i>)	(Eastern population) NB, NS, ON, QC	1999
Frog, Pickerel (<i>Rana palustris</i>)	NB, NS, ON, QC	1999
Salamander, Four-toed (<i>Hemidactylium scotatum</i>)	NB, NS, ON, QC	1999
Salamander, Northern Dusky (<i>Desmognathus fuscus</i>)	ON, QC	1999
Salamander, Northwestern (<i>Ambystoma gracile</i>)	BC	1999
Treefrog, Cope's Gray (<i>Hyla chrysoscelis</i>)	MB	1999

REPTILES

Snake, Western Yellowbelly Racer (<i>Coluber constrictor mormon</i>)	BC	1991
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FISH

Bloater (<i>Coregonus hoyi</i>)	ON	1988
Chub, Hornyhead (<i>Nocomis biguttatus</i>)	MB, ON	1988
Chub, River (<i>Nocomis micropogon</i>)	ON	1988
Dace, Leopard (<i>Rhinichthys falcatus</i>)	BC	1990
Darter, Least (<i>Etheostoma microperca</i>)	ON	1989
Darter, River (<i>Percina shumardi</i>)	MB, ON	1989
Darter, Tesselated (<i>Etheostoma olmstedt</i>)	ON, QC	1993
Herring, Blueback (<i>Alosa aestivalis</i>)	NB, NS	1980
Killifish, Banded (<i>Fundulus diaphanus</i>)	(Mainland pop.) MB, NB, NF, NS, ON, PE, QC	1989
Minnow, Bluntnose (<i>Pimephales notatus</i>)	MB, ON, QC	1998
Minnow, Cutlips (<i>Exoglossum maxillingua</i>)	ON, QC	1994
Minnow, Eastern Silvery (<i>Hybognathus regius</i>)	ON, QC	1997
Pickerel, Chain (<i>Esox niger</i>)	NB, NS, QC	1997
Pickerel, Redfin (<i>Esox americanus americanus</i>)	QC	1998
Redhorse, Golden (<i>Moxostoma erythrum</i>)	MB, ON	1989
Sculpin, Fourhorn (<i>Myoxocephalus quadricornis</i>)	(Arctic, Atlantic and Pacific Oceans) [salt water form]	1989
Sculpin, Spoonhead (<i>Cottus ricei</i>)	AB, BC, MB, NT, ON, QC, SK, YT	1989
Shiner, Blackchin (<i>Notropis heterodon</i>)	MB, ON, QC	1994
Shiner, Ghost (<i>Notropis bethanani</i>)	ON	1993
Shiner, Redfin (<i>Lythrurus umbratilis</i>)	ON	1988
Shiner, Rosyface (<i>Notropis rubellus</i>)	ON, QC	1994
Shiner, Striped (<i>Luxilus chrysocephalus</i>)	ON	1993
Shiner, Weed (<i>Notropis texanus</i>)	MB	1999
Silverside, Brook (<i>Labidesthes sicculus</i>)	ON, QC	1989
↓ Stoneroller, Central (<i>Campostoma anomalum</i>)	ON	1998
Sturgeon, Lake (<i>Acipenser fulvescens</i>)	AB, MB, ON, QC, SK	1986
Sucker, Mountain (<i>Catostomus platyrhynchus</i>)	AB, BC, SK	1991
Sunfish, Green (<i>Lepomis cyanellus</i>)	ON	1987
Sunfish, Longear (<i>Lepomis megalotis</i>)	ON, QC	1987
Y-Prickleback (<i>Allolumpenus hypochromus</i>)	BC	1991

MOLLUSCS

LEPIDOPTERANS

LIST 2. (CONTINUED)

PLANTS

Aster, Short's (<i>Aster shortii</i>)	ON	1999
Aster, Yukon (<i>Aster yukonensis</i>)	NT, YT	1996
Brickellia, Large-flowered (<i>Brickellia grandiflora</i>)	AB, BC	1996
Fameflower (<i>Talinum sedifforme</i>)	BC	1990
Fleabane, Dwarf (<i>Erigeron radicans</i>)	AB, SK	1996
Goldenweed, MacLean's (<i>Haplopappus macleanii</i>)	YT	1997
Mermaid, False (<i>Floerkea proserpinacoides</i>)	NS, ON, QC	1984
Phlox, Blue (<i>Phlox alyssifolia</i>)	AB, SK	1996
Rhododendron, Pacific (<i>Rhododendron macrophyllum</i>)	BC	1997
Rush Pink (<i>Stephanomeria runcinata</i>)	AB, SK	1996
Sagebrush, Wood's (<i>Artemisia rupestris</i> ssp. <i>woodii</i>)	YT	1997
Sedge, Nebraska (<i>Carex nebrascensis</i>)	AB	1995
Stitchwort, Sand (<i>Stellaria arenicola</i>)	AB, SK	1992
Wallflower, Narrow-leaved (<i>Erysimum angustatum</i>)	YT	1993
↓ Willow, Tyrrell's (<i>Salix tyrrellii</i>)	NT, SK	1999
Woolly-heads, Slender (<i>Psilocarphus tenellus</i> var. <i>tenellus</i>)	BC	1996

LICHENS

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MOSSES

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**LIST 3. SPECIES EXAMINED AND DESIGNATED IN THE INDETERMINATE
CATEGORY BECAUSE OF INSUFFICIENT SCIENTIFIC
INFORMATION, WITH GEOGRAPHICAL OCCURRENCE AND
DATE EXAMINED**

MAMMALS

♦♦ Cougar (<i>Puma concolor couguar</i>)	(Eastern population) NB, NS, ON, QC	1998
Mouse, Western Harvest (<i>Reithrodontomys megalotis dychei</i>)	(Prairie population) AB	1994
Porpoise, Harbour (<i>Phocoena phocoena</i>)	(Pacific Ocean)	1991
Seal, Harbour (<i>Phoca vitulina concolor</i>)	(Atlantic and Arctic coastal waters)	1999
Vole, Sagebrush (<i>Lemmyscus curtatus</i>)	AB, SK	1996
Whale, Dwarf Sperm (<i>Kogia simus</i>)	(Pacific Ocean)	1997
Whale, Killer (<i>Orcinus orca</i>)	(North Atlantic and Arctic populations)	1999
Wolf, Gray (<i>Canis lupus arctos</i>)	NT, NU	1999
Wolf, Gray (<i>Canis lupus lycaon</i>)	ON, QC	1999

BIRDS

Poorwill, Common (<i>Phalaenoptilus nuttallii</i>)	AB, BC, SK	1993
Screech-Owl, Western (<i>Otus kennicottii</i>)	BC	1995
Tern, Forster's (<i>Sterna forsteri</i>)	AB, BC, MB, ON, SK	1996

AMPHIBIANS

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REPTILES

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FISH

Catfish, Flathead (<i>Fylodictis olivaris</i>)	ON	1993
Chiselmouth (<i>Acrochellus alutaceus</i>)	BC	1997
Cisco, Bering (<i>Coregonus laurettae</i>)	YT	1990
Lamprey, Darktail (<i>Lethenteron alaskense</i>)	NT	1990
Poacher, Pixie (<i>Ocella impi</i>)	BC	1991
Sculpin, Spinynose (<i>Asemichthys taylori</i>)	(Pacific Coast)	1997
Whitefish, Mira River (<i>Coregonus clupeaformis</i>)	NS	1999

MOLLUSCS

Snail, Gatineau Tadpole (<i>Physella parkeri litchfordi</i>)	ON (?), QC	1997
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LEPIDOPTERANS

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PLANTS

Barley, Little (<i>Hordeum pusillum</i>)	AB	1993
Goldenweed, Rabbit-brush (<i>Ericameria bloomert</i>)	BC	1997
Pinweed, Impoverished (<i>Lechea intermedia</i> var. <i>depauperata</i>)	SK	1997
Whitlow-cress, Kananaskis (<i>Draba kananaskis</i>)	AB	1992

LICHENS

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MOSSES

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RECORD OF STATUS REEXAMINATIONS

AMERICAN BLACK BEAR: provisionally considered not at risk in 1998 ; new information was obtained and a revised report was prepared - revisited in 1999 and still considered not at risk.

AMERICAN GINSENG: designated threatened in 1988 and uplisted to endangered in 1999.

AMERICAN MARTEN (NEWFOUNDLAND POPULATION): (not in any category) not at risk in 1979 and uplisted to threatened in 1986. Reassessed in 1996 and uplisted to endangered.

AMERICAN WHITE PELICAN: designated threatened in 1978 and delisted in 1987.

ANATUM PEREGRINE FALCON: designated endangered in 1978 and downlisted to threatened in 1999.

ATHABASCA THRIFT: designated threatened in 1981 and downlisted to vulnerable in 1999.

BAIRD'S SPARROW: designated threatened in 1989 and delisted in 1996.

BARN OWL: considered one population in 1984 and designated (rare) vulnerable. Split into two populations in 1999 and the eastern population (ON) was uplisted to endangered. The western population (BC) was reconfirmed as vulnerable.

BENTHIC PAXTON LAKE STICKLEBACK³³: provisionally designated threatened in 1998; BC provided new information and a revised report was prepared - revisited and reconfirmed as threatened in 1999.

BLACK-TAILED PRAIRIE DOG: designated (rare) vulnerable in 1978 and reconfirmed as (rare) vulnerable in 1988; revisited again in 1999 and reconfirmed as vulnerable.

BLACK TERN: (not in any category) not at risk in 1988 and reconfirmed as not at risk in 1996.

BLUEHEARTS: designated threatened in 1985 and uplisted to endangered in 1998.

BOWHEAD WHALE: Eastern and Western Arctic populations designated endangered in 1980; Western Arctic population revisited in 1986 and reconfirmed as endangered.

BURROWING OWL: designated threatened in 1979 and reconfirmed as threatened in 1991; re-examined in 1995 and uplisted to endangered.

CASPIAN TERN: designated as (rare) vulnerable in 1978 and delisted in 1999.

CENTRAL STONEROLLER: designated (rare) vulnerable in 1985 and delisted in 1998.

COOPER'S HAWK: designated (rare) vulnerable in 1983 and delisted in 1996.

COUGAR (EASTERN POPULATION): designated endangered in 1978; re-examined by COSEWIC in 1998 and placed on indeterminate list because there was insufficient scientific data to evaluate taxonomy or assign a status.

CUCUMBER TREE: designated endangered in 1984 and reconfirmed as endangered in 1999.

EASTERN BLUEBIRD: designated (rare) vulnerable in 1984 and delisted in 1996.

EASTERN MOLE: designated (rare) vulnerable in 1980 and reconfirmed as vulnerable in 1998.

³³ Formerly listed as Benthic Texada Island Stickleback.

RECORD OF STATUS REEXAMINATIONS (CONTINUED)

EASTERN MOUNTAIN AVENS: designated endangered in 1986 and reconfirmed as endangered in 1999

EASTERN PRICKLY PEAR CACTUS: designated endangered in 1985 and reconfirmed as endangered in 1998.

FERRUGINOUS HAWK: designated threatened in 1980 and downlisted to vulnerable in 1995.

FLAMMULATED OWL: designated (rare) vulnerable in 1988 and reconfirmed as vulnerable in 1999.

FOWLER'S TOAD: designated (rare) vulnerable in 1986 and uplisted to threatened in 1999.

FURBISH'S LOUSEWORT: designated endangered in 1980 and reconfirmed as endangered in 1998.

GATTINGER'S AGALINIS: designated endangered in 1988 and reconfirmed as endangered in 1999.

GIANT HELLEBORINE: designated threatened in 1984 and downlisted to vulnerable in 1998.

GOLDEN CREST: designated threatened in 1987 and reconfirmed as threatened in 1999.

GOLDEN EAGLE: (no designation required) not at risk in 1987 and reconfirmed as not at risk in 1996.

GRAVEL CHUB: designated endangered in 1985 and uplisted to extirpated in 1987.

GREAT GRAY OWL: designated (rare) vulnerable in 1979 and delisted in 1996.

GREATER PRAIRIE CHICKEN: designated endangered in 1978 and uplisted to extirpated in 1990.

GRIZZLY BEAR: (not in any category) not at risk in 1979 and uplisted to vulnerable in 1991. (The uplisting recognized the sensitivity of the grizzly bear to environmental changes and overharvest, though its population was not in decline.)

GYRFALCON: (not in any category) not at risk in 1978 and reconfirmed as not at risk in 1987.

HARBOUR PORPOISE: Northeast Atlantic population designated threatened in 1990 and reconfirmed as threatened in 1991. Northeast Pacific population designated "ISIBD"³⁴ (indeterminate) in 1991.

HEART-LEAVED PLANTAIN: designated endangered in 1985 and reconfirmed as endangered in 1998.

HENSLOW'S SPARROW: designated threatened in 1984 and uplisted to endangered in 1993.

HOARY MOUNTAIN MINT: designated endangered in 1986 and reconfirmed as endangered in 1998.

HUMPBACK WHALE: both Atlantic and Pacific populations were designated threatened in 1982. Status reconfirmed as threatened for the North Pacific population in 1985. The Western North Atlantic population downlisted to (rare) vulnerable in 1985.

INDIAN PLANTAIN: designated (rare) vulnerable in 1988 and reconfirmed as vulnerable in 1999.

IVORY GULL: designated (rare) vulnerable in 1981 and reconfirmed as vulnerable in 1996.

KING RAIL: designated (rare) vulnerable in 1985 and uplisted to endangered in 1994.

KIRTLAND'S WARBLER: designated endangered in 1979 and reconfirmed as endangered in 1999.

³⁴ ISIBD = insufficient scientific information on which to base a designation. As of 1994 ISIBD changed to indeterminate category.

RECORD OF STATUS REEXAMINATIONS (CONTINUED)

LAKE LAMPREY: designated rare (vulnerable) in 1986 and reconfirmed as vulnerable in 1998.

LARGE WHORLED POGONIA: designated endangered in 1986 and reconfirmed as endangered in 1998.

LEAST BITTERN: designated (rare) vulnerable in 1988 and reconfirmed as vulnerable in 1999.

LIMNETIC PAXTON LAKE STICKLEBACK³⁵: provisionally designated threatened in 1998; BC provided new information and a revised report was prepared - revisited and reconfirmed as threatened in 1999

LOGGERHEAD SHRIKE : considered as one population in 1986 and designated threatened; eastern population was revisited and uplisted to endangered in 1991.

LOUISIANA WATERTHRUSH: designated vulnerable in 1991 and reconfirmed as vulnerable in 1996.

MOSQUITO FERN: designated threatened in 1984 and reconfirmed as threatened in 1998.

MOUNTAIN BEAVER: (not in any category) not at risk in 1984 and uplisted to vulnerable in 1999.

NARWHAL: (not in any category) not at risk in 1986 and reconfirmed as (not in any category) not at risk in 1987.

NODDING POGONIA: designated threatened in 1988 and uplisted to endangered in 1999.

NORTHERN MADTOM: considered indeterminate in 1993; re-examined in 1998 and designated vulnerable.

NORTHERN SPOTTED OWL³⁶: designated endangered in 1986 and reconfirmed as endangered in 1999.

NUTTALL'S COTTONTAIL: prairie population (not in any category) not at risk in 1991 and reconfirmed as not at risk in 1994.

PEALE'S PEREGRINE FALCON: designated (rare) vulnerable in 1978 and reconfirmed as vulnerable in 1999.

PEARY CARIBOU: considered as one population and designated threatened in 1979. Considered as three populations in 1991 and redesignated as follows; Banks Island population, endangered; High Arctic population, endangered; and Low Arctic population, threatened.

PINK COREOPSIS: designated endangered in 1984 and reconfirmed as endangered in 1999.

PINK MILKWORT: designated endangered in 1984 and reconfirmed as endangered in 1998.

PIPING PLOVER: designated threatened in 1978 and uplisted to endangered in 1985.

PITCHER'S THISTLE: designated threatened in 1988 and uplisted to endangered in 1999.

PLAINS POCKET GOPHER: designated (rare) vulnerable in 1979 and delisted in 1998.

PLYMOUTH GENTIAN: designated threatened in 1984 and reconfirmed as threatened in 1999.

POLAR BEAR: (not in any category) not at risk in 1986; uplisted to vulnerable in 1991. (The uplisting recognized the sensitivity of the polar bear to environmental changes and overharvest, though its population was not in decline.) Revisited in 1999 and reconfirmed as vulnerable.

³⁵Formerly listed as Limnetic Texada Island Stickleback.

³⁶Formerly listed as Spotted Owl (*Strix occidentalis*)

RECORD OF STATUS REEXAMINATIONS (CONTINUED)

PRAIRIE FALCON: (no designation required) not at risk in 1978 and reconfirmed as (no designation required) not at risk in 1982. Reassessed in 1996 and reconfirmed as not at risk.

PRAIRIE LONG-TAILED WEASEL: designated threatened in 1982 and delisted in 1993.

PRAIRIE WARBLER: designated (rare) vulnerable in 1985 and delisted in 1999.

PROTHONOTARY WARBLER: designated (rare) vulnerable in 1984 and uplisted to endangered in 1996.

PURPLE TWAYBLADE: designated threatened in 1989 and uplisted to endangered in 1999.

RED MULBERRY: designated threatened in 1987 and uplisted to endangered in 1999.

RED-SHOULDERED HAWK: designated (rare) vulnerable in 1983 and reconfirmed as vulnerable in 1996.

RIGHT WHALE: designated endangered in 1980; reconfirmed as endangered in 1985 and reconfirmed again as endangered in 1990.

RIVER REDHORSE: designated (rare) vulnerable in 1983 and reconfirmed as (rare) vulnerable in 1987.

ROSEATE TERN: designated threatened in 1986 and uplisted to endangered in 1999.

ROSS' GULL: designated (rare) vulnerable in 1981 and reconfirmed as vulnerable in 1996.

SAGE GROUSE: conditionally designated threatened in 1997. The report was revised and reexamined in 1998 and the Prairie population (AB and SK) was designated endangered.

SEA OTTER: designated endangered in 1978 and reconfirmed as endangered in 1986. Reassessed in 1996 and downlisted to threatened.

SHARP-SHINNED HAWK: (no designation required) not at risk in 1986 and reconfirmed as not at risk in 1997.

SHUMARD OAK: designated (rare) vulnerable in 1984 and reconfirmed as vulnerable in 1999.

SILVER SHINER: designated (rare) vulnerable in 1983 and reconfirmed as (rare) vulnerable in 1987.

SKINNER'S AGALINIS: designated endangered in 1988 and reconfirmed as endangered in 1999.

SLENDER BUSH CLOVER: designated endangered in 1986 and reconfirmed as endangered in 1999.

SMALL WHITE LADY'S-SLIPPER: designated endangered in 1981 and reconfirmed as endangered in 1999.

SMALL WHORLED POGONIA: designated endangered in 1982 and reconfirmed as endangered in 1998.

SOUTHERN MAIDENHAIR FERN: designated endangered in 1984 and reconfirmed as endangered in 1998.

SPOTTED GAR: designated (rare) vulnerable in 1983 and reconfirmed as vulnerable in 1994.

SPOTTED SUCKER: designated (rare) vulnerable in 1983 and reconfirmed as vulnerable in 1994.

SPOTTED WINTERGREEN: designated endangered in 1987 and reconfirmed as endangered in 1998.

SWEET PEPPERBUSH: designated threatened in 1986 and reconfirmed as threatened in 1998.

SWIFT FOX: designated extirpated in 1978 and downlisted to endangered in 1998.

RECORD OF STATUS REEXAMINATIONS (CONTINUED)

TRUMPETER SWAN: designated (rare) vulnerable in 1978 and delisted in 1996.

TUNDRA PEREGRINE FALCON: designated threatened in 1978 and downlisted to vulnerable in 1992.

TYRRELL'S WILLOW: designated threatened in 1981 and delisted in 1999.

VANCOUVER ISLAND MARMOT: designated endangered in 1978 and reconfirmed as endangered in 1997.

WATER -PENNYWORT: designated endangered in 1985 and downlisted to threatened in 1999.

WHITE WHALE (BELUGA)) [ST LAWRENCE RIVER POPULATION]: designated endangered in 1983 and reconfirmed as endangered in 1997.

WOLVERINE: considered as one population in 1982 and designated (rare) vulnerable. Split into two populations in 1989; Western population, vulnerable, and Eastern (Quebec and Labrador) population, endangered.

WOOD BISON: designated endangered in 1978 and downlisted to threatened in 1988.

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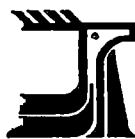
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The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) was created in 1977 as a result of a recommendation at the Federal-Provincial Wildlife Conference held in 1976. It arose from the need for a single, official, scientifically sound, national listing of wildlife species at risk. In 1978, COSEWIC designated its first species and produced its first list of Canadian species at risk. COSEWIC meets annually in April each year. Species designated at this meeting are added to the list.



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