

Table S1: **Definitions and sources:** Definitions and sources for the different at-risk species classifications under the Endangered Species Act (ESA), Species At Risk Act (SARA), IUCN Red List, BC Wildlife Act and Washington State Listed Species.

Act	Location	Listing category	Definition	Source
Endangered Species Act (ESA)	USA	Candidate species	A species for which there is sufficient information on their biological status and threats to propose them as endangered or threatened, but other higher priority listing activities mean the species has not yet been listed. Or a species that is currently under review for potential listing.	Office of Protected Resources (2023), USFWS (2017)
		Threatened	A species that is likely to become endangered in the foreseeable future throughout all or a significant portion of its range	Smith et al. (2018)
		Endangered	A species in danger of extinction throughout all or a significant portion of its range	Smith et al. (2018)
Species at Risk Act (SARA)	Canada	Special Concern	A species that may become a threatened or an endangered species because of a combination of biological characteristics or identified threats	ECCC (2014), SARA (2002)
		Threatened	A wildlife species that is likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction	
		Endangered	A wildlife species that is facing imminent extirpation or extinction	
		Extinct/Extirpated	<i>Extinct</i> : a wildlife species that no longer exists <i>Extirpated</i> : a wildlife species that no longer exists in the wild in Canada, but exists elsewhere in the world	
		Data Deficient	Not enough information available for classification	
IUCN Red List	Global	Least Concern	A species that does not qualify for Critically Endangered, Endangered, Vulnerable or Near Threatened	IUCN (2012, 2022)
		Near Threatened	A species that... 'is close to qualifying for or is likely to qualify for a threatened category in the near future'	
		Vulnerable	A species that 'meets any of the criteria A to E for Vulnerable, and it is therefore considered to be facing a high risk of extinction in the wild' (for 'criteria A to E' see IUCN (2012))	
		Endangered	A species that 'meets any of the criteria A to E for Endangered, and it is therefore considered to be facing a very high risk of extinction in the wild'	
		Critically Endangered	A species that 'meets any of the criteria A to E for Critically Endangered, and it is therefore considered to be facing an extremely high risk of extinction in the wild'	

		Extinct in the Wild	A species 'known only to survive in cultivation, in captivity or as a naturalised population...when exhaustive surveys in known and/or expected habitat, at appropriate times...have failed to record an individual'	
		Extinct	'When there is no reasonable doubt that the last individual has died' and 'When exhaustive surveys in known and/or expected habitat, at appropriate times...have failed to record an individual'	
		Data Deficient	If there is 'Inadequate information to make a direct, or indirect, assessment...based on its distribution and/or population status'	
British Columbia Wildlife Act	British Columbia, Canada	Red List	Any species or ecosystem that is at risk of being lost (extirpated, endangered or threatened). Includes those assumed extirpated, historical/possibly extirpated, critically imperilled and imperilled	Harper et al. (1994), Master et al. (2012), NatureServe (2023)
		Blue List	Any species or ecosystem that is of special concern. Includes species of special concern, vulnerable to extirpation or extinction	
		Yellow List	Any species or ecosystem that is apparently secure or secure (least risk of being lost) e.g. demonstrably widespread or abundant	
Washington Priority Habitats and Species	Washington State, USA	Endangered	Seriously threatened with extinction throughout all or a significant portion of its range	Department of Fish and Wildlife (2023)
		Protected – Threatened	Likely to become endangered within the foreseeable future throughout a significant portion of its range without cooperative management or removal of threats	
		Protected – Sensitive	Vulnerable or declining and likely to become endangered or threatened in a significant portion of its range within the state without cooperative management or removal of threats	

Table S2: **Population-level listings:** Species with specific populations listed under species-at-risk legislation on either one or both sides of the US-Canada border, and their respective Species At Risk Act (SARA), Endangered Species Act (ESA) and IUCN classifications. Where a population is specific in brackets, the species is only listed for that population but where there are no populations specified, the species is listed in its entirety/across the whole country. All IUCN classifications are at a species level.

Species	SARA	ESA	IUCN
<b>Steller sea lion</b> <i>Eumetopias jubatus</i>	Special concern	Endangered (Western DPS)	Near Threatened
<b>Bowhead whale</b> <i>Balaena mysticetus</i>	Special concern (Bering-Chukchi-Beaufort population)	Endangered	Least Concern
<b>Sei whale</b> <i>Balaenoptera borealis</i>	Endangered (Pacific population)	Endangered	Endangered
<b>Blue whale</b> <i>Balaenoptera musculus</i>	Endangered (Atlantic and Pacific populations)	Endangered	Endangered
<b>Fin whale</b> <i>Balaenoptera physalus</i>	Threatened (Pacific population) Special concern (Atlantic population)	Endangered	Vulnerable
<b>Beluga whale</b> <i>Delphinapterus leucas</i>	Endangered (St. Lawrence Estuary population) Threatened (Cumberland Sound population)	Endangered (Cook Inlet DPS)	Least Concern
<b>Grey whale</b> <i>Eschrichtius robustus</i>	Extirpated (Atlantic population) Special concern (Eastern North Pacific population)	Endangered (Western North Pacific DPS)	Least Concern
<b>Humpback whale</b> <i>Megaptera novaeangliae</i>	Special concern (Subspecies <i>kuzira</i> in North Pacific population)	Endangered (Central America DPS and Western North Pacific DPS)	Least Concern
<b>Killer whale</b> <i>Orcinus orca</i>	Endangered (Northeast Pacific southern resident population) Threatened (Northeast Pacific northern resident, offshore and transient populations)	Endangered (Southern Resident DPS)	Data Deficient
<b>Caribou</b> <i>Rangifer tarandus caribou</i>	Threatened (Southern Mountain population) Special concern (Northern Mountain population)	Endangered (Southern Mountain DPS)	Not listed
<b>Grizzly bear</b> <i>Ursus arctos</i>	Special concern (Western population)	Threatened	Least Concern

Table S3: **Canadian federal vs provincial listings:** A comparison of species' listings at a federal versus provincial level in Canada, for those species that exist in British Columbia. Listings are shown for the Species At Risk Act (SARA), the British Columbia List and the corresponding British Columbia Conservation Status Rank. Note: some instances where a specific subspecies is not listed in one legislation, but the species is. See notes for specific information.

Species	SARA status	BC list	BC Conservation Status Rank	Notes
<b>Pallid bat</b> <i>Antrozous pallidus</i>	Threatened	Red	S2: Imperilled	
<b>Mountain beaver</b> <i>Aplodontia rufa</i>	Special Concern	Yellow	S4: Apparently Secure	
<b>Wood bison</b> <i>Bison bison athabasca</i>	Threatened	Red	S2: Imperilled	
<b>Eastern wolf</b> <i>Canis lupus lycaon</i>	Special Concern	Subspecies not on list	Subspecies not on list	Grey wolf as a species in BC is apparently secure and on Yellow list but the Eastern wolf subspecies does not occur in BC
<b>Sea otter</b> <i>Enhydra lutris</i>	Special Concern	Blue	S3: Special Concern	
<b>North Pacific right whale</b> <i>Eubalaena japonica</i>	Endangered	Red	S1: Critically Imperilled	
<b>Spotted bat</b> <i>Euderma maculatum</i>	Special Concern	Blue	S3S4: Special Concern /Apparently Secure	
<b>Steller sea lion</b> <i>Eumetopias jubatus</i>	Special Concern	Blue	S3S4B: Breeding population of Special Concern /Apparently Secure S4N: Non-breeding population Apparently Secure	
<b>Wolverine</b> <i>Gulo gulo</i>	Special Concern	No status	S3: Special Concern	No status because subspecies <i>luscus</i> (blue list) and <i>vancouverensis</i> (red list) have their own designation
<b>Vancouver Island marmot</b> <i>Marmota vancouverensis</i>	Endangered	Red	S1: Critically Imperilled	
<b>Haide ermine</b> <i>Mustela haidarum</i>	Threatened	Red	S2: Imperilled	

<b>Little brown myotis</b> <i>Myotis lucifugus</i>	Endangered	Blue	S3S4: Special Concern/Apparently Secure	
<b>Northern myotis</b> <i>Myotis septentrionalis</i>	Endangered	Blue	S2S3: Imperilled/Special Concern	
<b>Collared pika</b> <i>Ochotona collaris</i>	Special Concern	Blue	S3S4: Special Concern/Apparently Secure	
<b>Western harvest mouse <i>megalotis</i> subspecies</b> <i>Reithrodontomys megalotis megalotis</i>	Special Concern	Species on Blue List	Species is S3: Special Concern	Occurs in BC but subspecies has no specific status
<b>Townsend's mole</b> <i>Scapanus townsendii</i>	Endangered	Red	S1: Critically Imperilled	
<b>Pacific water shrew</b> <i>Sorex bendirii</i>	Endangered	Red	S2: Imperilled	Inexact or uncertain numeric rank
<b>Nuttall's cottontail</b> <i>Sylvilagus nuttallii nuttallii</i>	Special Concern	Species on Blue List	Species is S3: Special Concern	Occurs in BC but subspecies has no specific status
<b>Plains bison</b> <i>Bos bison bison</i>	Not listed	Red	SX: Presumed extirpated	
<b>Northern fur seal</b> <i>Callorhinus ursinus</i>	Not listed	Red	S2M: Migratory population imperilled	
<b>Roosevelt elk</b> <i>Cervus elaphus roosevelti</i>	Not listed	Blue	S3S4: Special Concern/Apparently Secure	
<b>Townsend's big-eared bat</b> <i>Corynorhinus townsendii</i>	Not listed	Blue	S3: Special Concern	
<b>Hoary bat</b> <i>Lasiurus cinereus</i>	Not listed	Blue	S3S4: Special Concern/Apparently Secure	
<b>Snowshoe hare <i>washingtonii</i> subspecies</b> <i>Lepus americanus washingtonii</i>	Not listed	Red	S1: Critically Imperilled	
<b>White-tailed jackrabbit</b> <i>Lepus townsendii</i>	Not listed	Red	SX: Presumed extirpated	
<b>Townsend's vole <i>cowani</i> subspecies</b> <i>Microtus townsendii cowani</i>	Not listed	Red	S1: Critically Imperilled	

<b>Northern elephant seal</b> <i>Mirounga angustirostris</i>	Not listed	Red	S1B, S4N: Breeding population Critically Imperilled, non-breeding population Apparently Secure	
<b>Long-tailed weasel</b> <i>altifrontalis</i> <b>subspecies</b> <i>Mustela frenata altifrontalis</i>	Not listed	Red	SH: Possibly Extirpated	
<b>Ermine</b> <i>anguinae</i> <b>subspecies</b> <i>Mustela richardsonii anguinae</i>	Not listed	Blue	S3: Special Concern	
<b>Southern red-backed vole</b> <b>subspecies</b> <i>Myodes gapperi</i> - <i>galei</i> - <i>occidentalis</i>	Not listed	Blue  Red	S3S4: Special Concern/Apparently Secure S1: Critically Imperilled	
<b>Western small-footed myotis</b> <i>Myotis ciliolabrum</i>	Not listed	Blue	S3S4: Special Concern/Apparently Secure	
<b>Yuma myotis</b> <i>Myotis yumanensis</i>	Not listed	Blue	S3: Special Concern	
<b>Least chipmunk</b> <b>subspecies</b> <i>Neotamias minimus</i> - <i>oreocetes</i> - <i>selkirki</i>	Not listed	Blue Red	S3: Special Concern S1: Critically Imperilled	
<b>Red-tailed chipmunk</b> <i>ruficaudus</i> and <i>simulans</i> subspecies <i>Neotamias ruficaudus</i> - <i>ruficaudus</i> - <i>simulans</i>	Not listed	Red Blue	S2: Imperilled  S3: Special Concern	
<b>Mountain goat</b> <i>Oreamnos americanus</i>	Not listed	Blue	S3: Special Concern	
<b>Bighorn sheep</b> <i>Ovis canadensis</i>	Not listed	Blue	S3: Special Concern	Inexact or uncertain numeric rank
<b>Dall's sheep</b> <i>Ovis dalli dalli</i>	Not listed	Blue	S2S3: Imperilled/Special Concern	
<b>Stone's sheep</b> <i>Ovis dalli stonei</i>	Not listed	Blue	S3S4: Special Concern/Apparently Secure	
<b>Fisher</b> <i>Pekania pennanti</i>	Not listed	Blue	S3: Special Concern	

<ul style="list-style-type: none"> <li>- <b>Boreal population</b></li> <li>- <b>Columbian population</b></li> </ul>		Red	S2: Imperilled	
<b>Sperm whale</b> <i>Physeter macrocephalus</i>	Not listed	Blue	S3S4: Special Concern/Apparently Secure	
<b>Merriam's shrew</b> <i>Sorex merriami</i>	Not listed	Red	S1: Critically Imperilled	
<b>Western water shrew <i>brooksi</i> subspecies</b> <i>Sorex navigator brooksi</i>	Not listed	Blue	S2S3: Imperilled/Special Concern	
<b>American water shrew</b> <i>Sorex palustris</i>	Not listed	Blue	S2S4: Imperilled/Apparently Secure	
<b>Preble's shrew</b> <i>Sorex preblei</i>	Not listed	Red	S1S2: Critically Imperilled/Imperilled	
<b>Olympic shrew</b> <i>Sorex rohweri</i>	Not listed	Red	S2: Imperilled	Inexact or uncertain numeric rank
<b>Trowbridge's shrew</b> <i>Sorex trowbridgii</i>	Not listed	Blue	S3: Special Concern	
<b>Tundra shrew</b> <i>Sorex tundrensis</i>	Not listed	Red	S1: Critically Imperilled	Inexact or uncertain numeric rank
<b>Northern bog lemming <i>artemisiae</i> subspecies</b> <i>Synaptomys borealis artemisiae</i>	Not listed	Blue	S2S3: Imperilled/Special Concern	
<b>Northern pocket gopher <i>segregatus</i> subspecies</b> <i>Thomomys talpoides segregatus</i>	Not listed	Red	S1S3: Critically Imperilled/Special Concern	
<b>Meadow jumping mouse <i>alascensis</i> subspecies</b> <i>Zapus hudsonius alascensis</i>	Not listed	Blue	S3: Special Concern	

Table S4: **American federal vs state listings:** Species classifications for mammals with distributions in Washington state, and their respective listings under ESA (federal legislation) and the Washington Species List (state legislation). Note: there are some instances where a specific subspecies is not listed, but the species is. See notes for specific details.

Species	ESA status	Washington	Notes
<b>Southern sea otter</b> <i>Enhydra lutris nereis</i>	Threatened	Subspecies not listed but Sea Otter species Threatened	
<b>Canada lynx</b> <i>Lynx canadensis</i>	Threatened	Endangered	
<b>Pocket gopher subspecies</b> <i>Thomomys mazama ssp.</i> <ul style="list-style-type: none"> <li>- <i>glacialis</i></li> <li>- <i>pugetensis</i></li> <li>- <i>tumuli</i></li> <li>- <i>yelmensis</i></li> <li>- <i>couchi</i></li> <li>- <i>louiel</i></li> <li>- <i>melanops</i></li> </ul>	Threatened Threatened Threatened Threatened Not listed Not listed Not listed	Threatened	
<b>Blue whale</b> <i>Balaenoptera musculus</i>	Endangered	Endangered	
<b>Fin whale</b> <i>Balaenoptera physalus</i>	Endangered	Endangered	
<b>Sei whale</b> <i>Balaenoptera borealis</i>	Endangered	Endangered	
<b>Sperm whale</b> <i>Physeter macrocephalus</i>	Endangered	Endangered	
<b>North Pacific right whale</b> <i>Eubalaena japonica</i>	Endangered	Endangered	
<b>Grizzly bear</b> <i>Ursus arctos</i>	Threatened	Endangered	
<b>Cascade red fox</b> <i>Vulpes vulpes cascadenis</i>	Not listed	Endangered	Does not occur outside of Washington
<b>Western gray squirrel</b> <i>Sciurus griseus</i>	Not listed	Threatened	Occurs outside of Washington

## References:

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