

GRIZZLY BEAR



Species At Risk Act (SARA) Consultation, Cooperation, and Accommodation Workshop

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- Canadian Wildlife Service – Pacific Region
Environment and Climate Change Canada

**January 26th, 27th and
February 2nd, 2021**

Ch'ít | Thank you

I am grateful to speak to you today from the unceded traditional territory of the Kwantlen, Qayqayt, Skwxwú7mesh (Squamish), Tsleil-Waututh (People of the Inlet), and x^wməθk^wəyəm (Musqueam) peoples.



MY BACKGROUND

- **Non-Indigenous** – white settler and minority immigrant family
- **Canadian Citizen** – grew up on the Fraser River Delta, Gulf Islands/Inside Passage, and the south Okanagan
- Studied and worked in BC archaeology and Indigenous cultural studies.
- **Quebec and Ontario** – moved to Montreal for graduate studies - lived in central Canada for 5 years
- **ECCC** – started working for the Canadian Wildlife Service in 2013 in Delta, BC
- It's pronounced un-Deen-eh



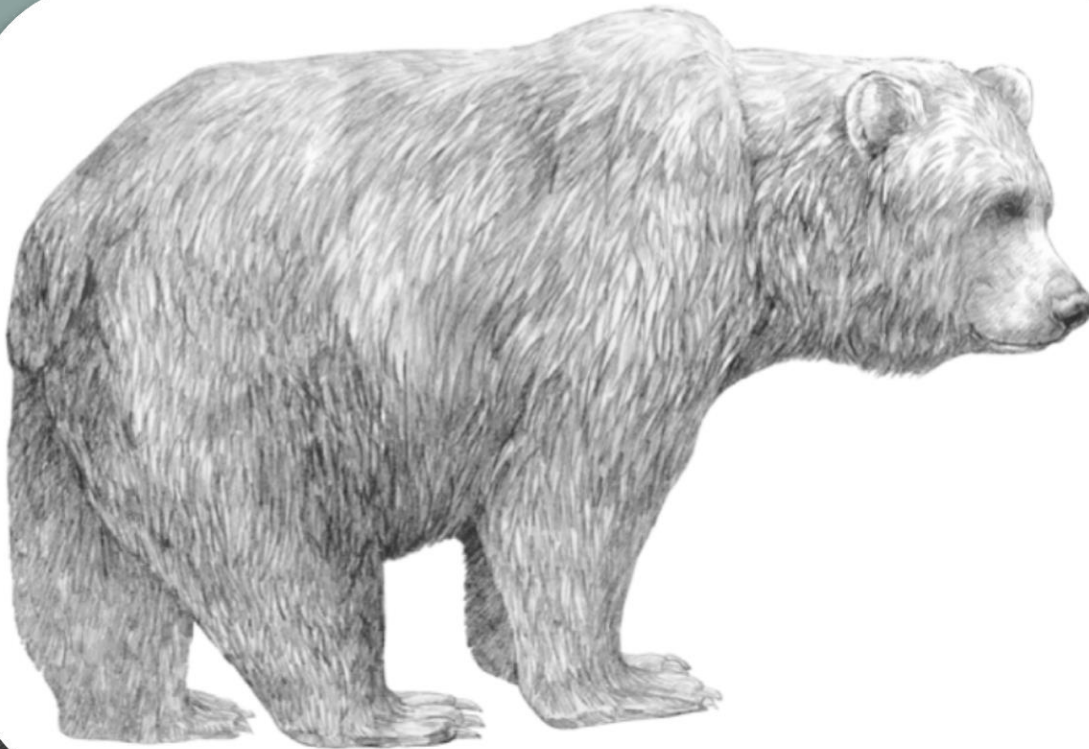
MY BACKGROUND

- **Non-Indigenous** – white settler and immigrant family
- **Canadian Citizen** – grew up on the North Shore, Gulf Islands/Inside Passage, and Sunshine Coast
- Studied and worked mostly in BC on wildlife ecology and species at risk
- Began professional career with **the Province of BC**
- Also worked for **Parks Canada**
- Now with **ECCC** – started working for the Canadian Wildlife Service in late 2019



GRIZZLY BEAR

Are culturally and ecologically significant species –
Impacts to Grizzly Bear have impacts on their entire ecosystem



OUTLINE & GOALS



- Provide information
 - Background
 - Approach to current Federal Grizzly Bear Management Plan
 - Linking with the current Provincial Grizzly Bear Management Plan
 - Working timeline
 - Potential incorporation of Indigenous Traditional Knowledge
- Listen and discuss Grizzly Bear
- Increase Indigenous representation in federal management planning for Grizzly Bear
- Collaborate to have varied points of view included in Grizzly Bear management
- Support community language revitalization

BACKGROUND



- Grizzly bear are listed as Special Concern
 - management plan (NO critical habitat)
- Western Grizzly Bear includes all the Grizzly Bears in Canada
 - From Nunavut to Manitoba to BC
 - 3 territories and 4 provinces
- Grizzly bears are managed by individual provinces and territories, with the federal government coordinating national level efforts
- In BC the Provincial government is also working on early stages of their Provincial Management Plan
 - BC and Canada are working together

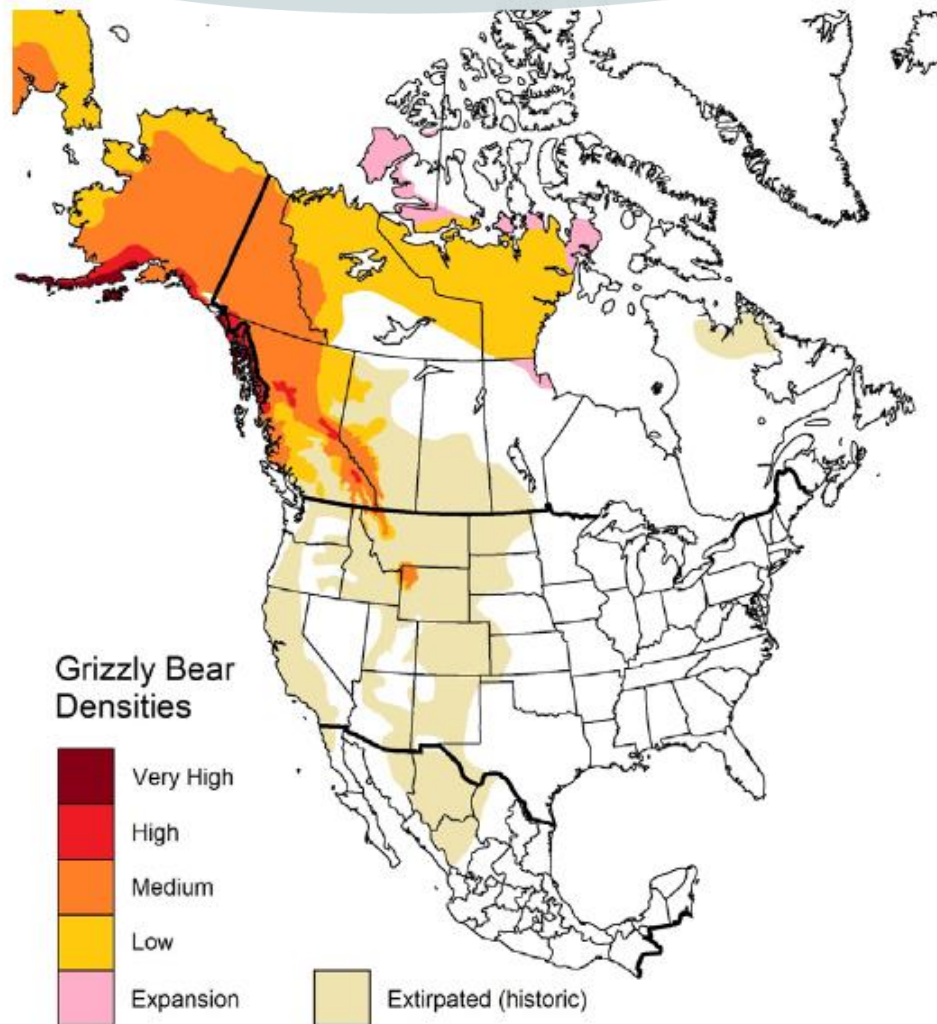
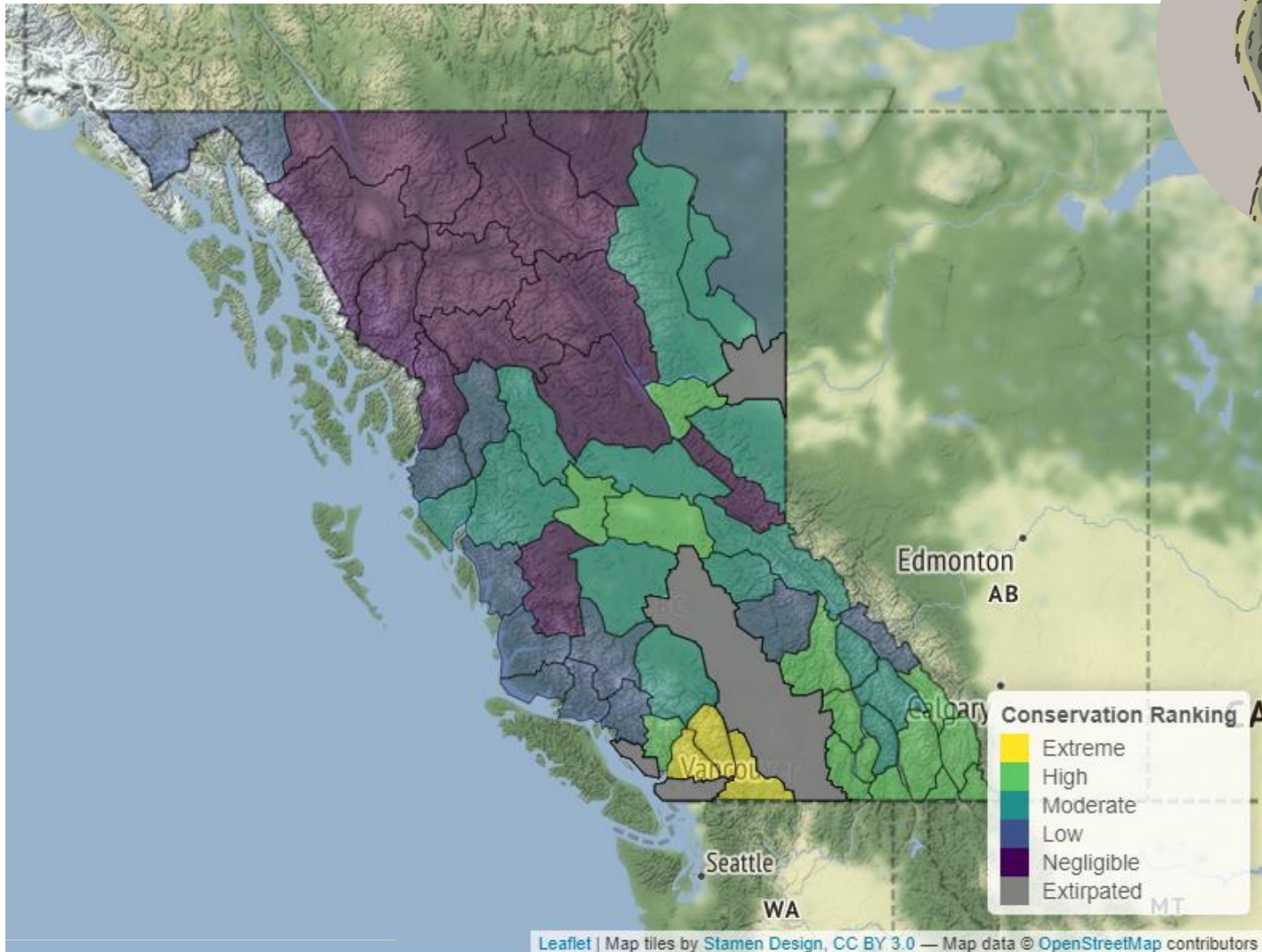


Figure 2. Approximate boundaries of the current and historic (i.e., 19th century) distribution of the Grizzly Bear, *Ursus arctos*, in North America, with contours of relative density. Areas in white are not known to have supported more than vagrant occurrences of Grizzly Bears in the past (including hot deserts, highly glaciated mountain ranges, Canadian shield, islands, taiga and boreal plains, and some highly productive coastal forests). Sources used to develop this map include McLoughlin (2001), Mattson and Merrill (2002), Hamilton *et al.* (2004), Proctor *et al.* (2005), Doupé *et al.* (2007), Loring and Spiess (2007), Environment Canada (2009), Rockwell *et al.* (2008), ASRDACA (2010), various jurisdictional ecoregion maps (e.g., Wiken 1986), ATK (see Canadian Range for references), and documented Grizzly Bear densities as reported in McLoughlin *et al.* (2000). Map produced by P. McLoughlin.

BC REGION MAP



DOCUMENT BACKGROUND



- Management Plan must include
 - High level recommendations
 - Species description
 - Threats
 - Management approaches
- Can also include traditional knowledge about Grizzly Bear

GRIZZLY BEAR BACKGROUND



- Wide ranging species (large home ranges)
- Habitat and food generalist – they go where the food is
- Technically omnivores, but herbivory is much more common
- Number of bears and their distribution dictated by mostly by the seasons and habitat productivity (human threats included)
- Highly sensitive to human activity

GRIZZLY BEAR BACKGROUND



- Used to be one of most common mammals on earth
 - Global range has shrunk tremendously primarily because of human activity
- BC is one of the last strongholds
- In BC, most populations are fairing well
 - still inhabit about 90% of their original range
 - some populations in the south, and especially southwest, are highly threatened

GRIZZLY BEAR BACKGROUND



- About 25,000 bears in Canada, most of which (more than half) occur in BC
- Range expanding in the north and contracting in the south
- Very few bears on prairies, but some colonization of previously occupied areas is occurring

A POTENTIAL TIMELINE



- Step 1: early collaboration with Indigenous groups
 - Through virtual workshops and one on one meetings (with BC staff)
- Step 2: First pass at early inclusion of available traditional knowledge into a draft management plan
 - 1st draft of the plan by summer/Fall 2021
 - Ongoing review and dialogue
- Step 3: Work with groups on community level Species at Risk projects to help fill knowledge gaps and incorporate traditional knowledge into the management plan
 - Beginning March 2021

A POTENTIAL TIMELINE



- Step 4: Work together over the next 1-2 years to develop novel approaches to incorporating ITK into the Grizzly Bear management plan (eg, two-eyed seeing).
- Ongoing throughout – language project



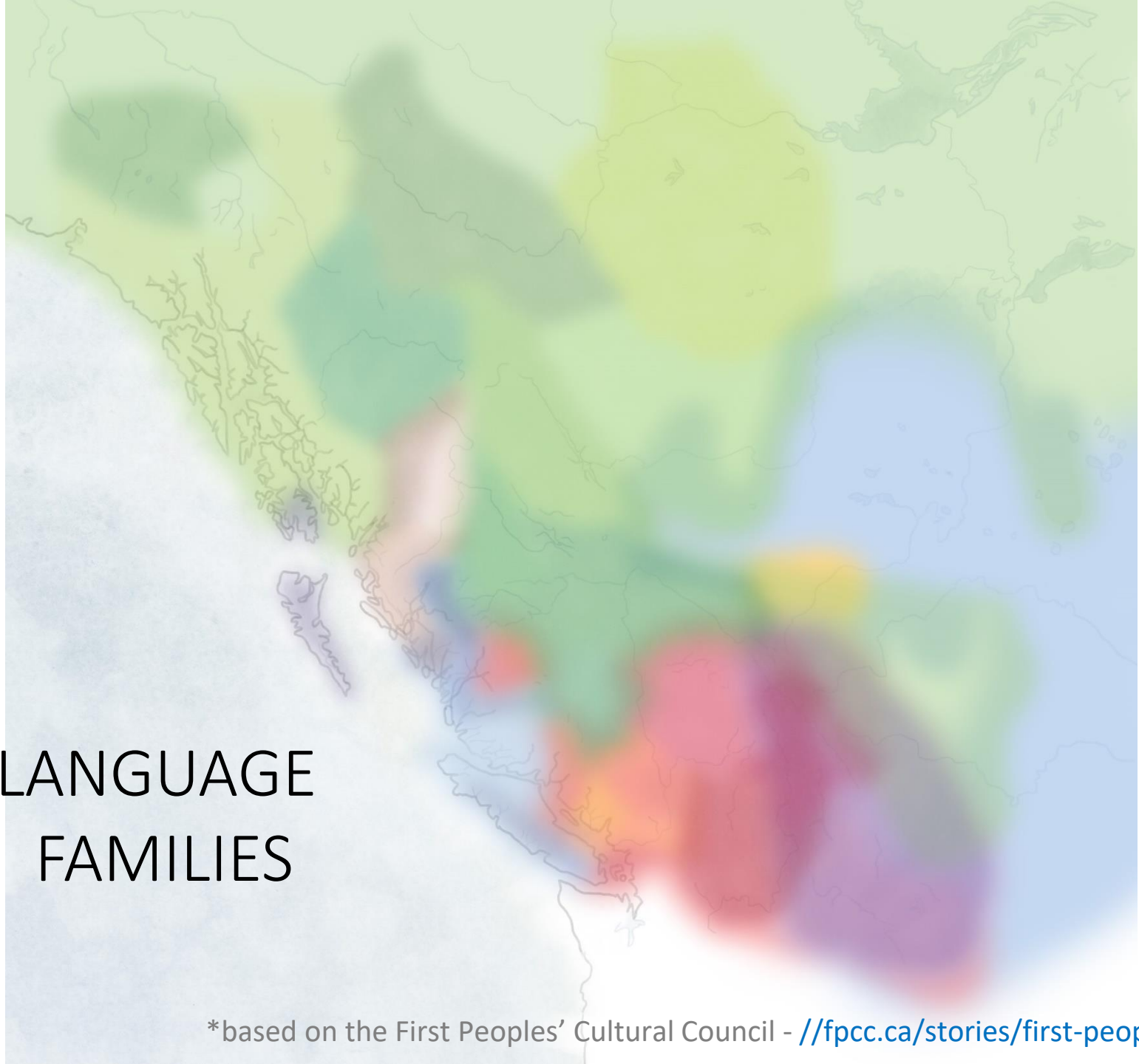
LANGUAGE

People in all cultures use language to describe *kinds* of things and to organize patterns of repetition found in the world

Different languages and knowledge systems can provide complementary descriptions biodiversity

Indigenous knowledge embodies detailed information about the environment that has been largely overlooked

LANGUAGE FAMILIES



BIOCULTURAL DIVERSITY

Social-ecological systems are dynamic relationships between human cultures, biota, and environments

Biocultural diversity highlights the interactions between human diversity and the diversity of biological systems



LANGUAGE FAMILY	LANGUAGE	DIALECT	WORD	ENGLISH	
Algonquian	Nēhiyawēwin	Plains Cree ("Y")	mistahaya	grizzly	
	Dane-Zaa	Doig River	dleye	grizzly	
Athabaskan-Eyak-Tlingit (Or Na-Dené)	Dakelh		shas	grizzly	
	Tāttān		łēhchō	bear,	
	Lingít		xóots	grizzly b	
	Dene K'e/South Slavey	Kát'odehche	sahcho	bear (grizzly,	
	Dene Kedə/North Slavey	Sahtú "Bearlake"; Shúhta "Mountain"		sahcho	grizzly bear
		K'áhsho "Hare"		sahsho	grizzly bear
	Tłı̨chǝ Yatı̨			sah dek'oo	brown bear, grizzly bear
				sahcho	big bear, grizzly bear
	Danezāgé'			dlēze det'ele	red grizzly bear
				dlēze	grizzly bear
	Tse'khene	McLeod Lake		dleze	grizzly
	Southern Tutchone			shár shāw	grizzly bear
				shár shāw ghra	grizzly bear cub
	Hän			shär cho	grizzly bear
	Tagish	Carcross Tagish		shashchō	grizzly bear
Tsilhqot'in			nunitsiny	grizzly bear	
Nedut'en/Witsuwit'en			cas	grizzly bear	
Tsimshianic	Gitsenimx		lak'inswx	grizzly	
	Nisga'a		likiḿskw	grizzly bear	
	Sgüüxs		medī'ik	grizzly	
	Smalgyax		mediik	grizzly bear	



LANGUAGE FAMILY	LANGUAGE	DIALECT	WORD	ENGLISH
Wakashan	'Wuikala		nàən	grizzly
	Háitzaqv̥la		náŋ	grizzly
	Kwakwala		gala	grizzly
	diitidʔaaʔtɬ		naani	grizzly
	Nuučaañuʔ		naani naana	grizzly bear grizzly bear
Salishan	SENĆOŦEN/Malchosen/ Lekwungen/Semiahmoo/T'Sou- ke	SENĆOŦEN	QIEĆEN	grizzly bear
		Xwlemi	kwe'chin	grizzly bear
	Nəxʷsəl'áymécən		k'wəyəcən	grizzly bear
	Pentlatch		ǰáywas	grizzly bear
	Hul'q'umi'num'/Halq'eméylem/ həñqəmiñəm	Hul'q'umi'num'	kw'uyutsun	grizzly bear
		Halq'eméylem	ɬeyt'áls	grizzly bear
		həñqəmiñəm	k'wəy-əcən	grizzly bear
	Éy7á7juuthem		xawgəs	grizzly bear
			ɬəwgəs	grizzly bear
	Nuxalk		nan	grizzly bear
	She shashishalhem		mayukʷ	grizzly bear
			mámeyukʷ	grizzly bear cub
Skwxwú7mesh sníchim		səl'ətálm	grizzly bear	



LANGUAGE FAMILY	LANGUAGE	DIALECT	WORD	ENGLISH
Salishan	nteʔkepmxcín		səx ^w sux ^w	grizzly
			k ^w mimeʔ tk səx ^w sux ^w	grizzly
	nsyilxcən		kiʔláwnaʔ	male
			smǰikn	female
	Secwepemctsin		skémcis	grizzly
		Eastern Secwepemc	skáʔcis	grizzly
Státimcets		stálhálam	grizzly bear	
		talhálem	grizzly bear	
Ktunaxa	Ktunaxa		kɬawɬa	grizzly bear
			kyannikín	half grizzly and half black bear
<u>X</u> aad Kil / <u>X</u> aaydaa Kil	<u>X</u> aad Kil / <u>X</u> aaydaa Kil	<u>X</u> aayda kil (Skidegate)	xuuajii	grizzly bear



THANK YOU

COMMENTS OR QUESTIONS?

