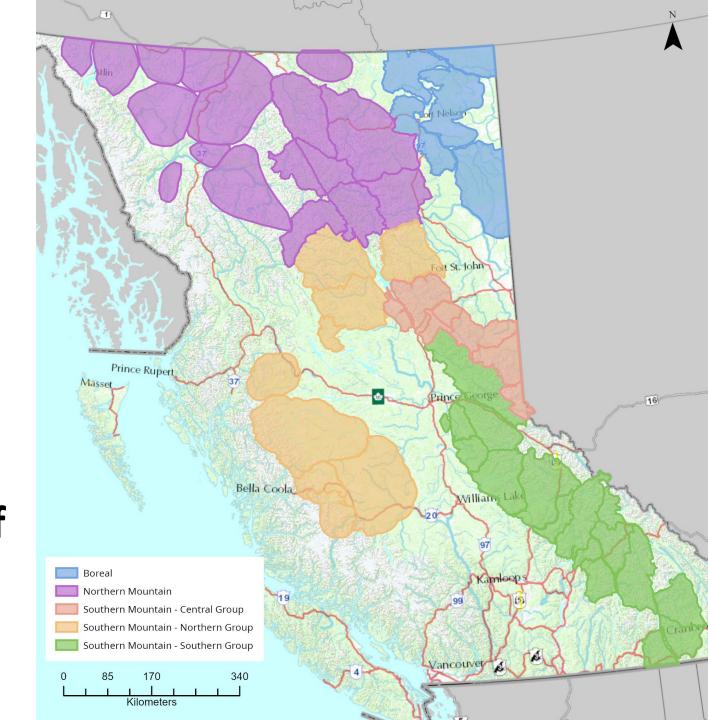


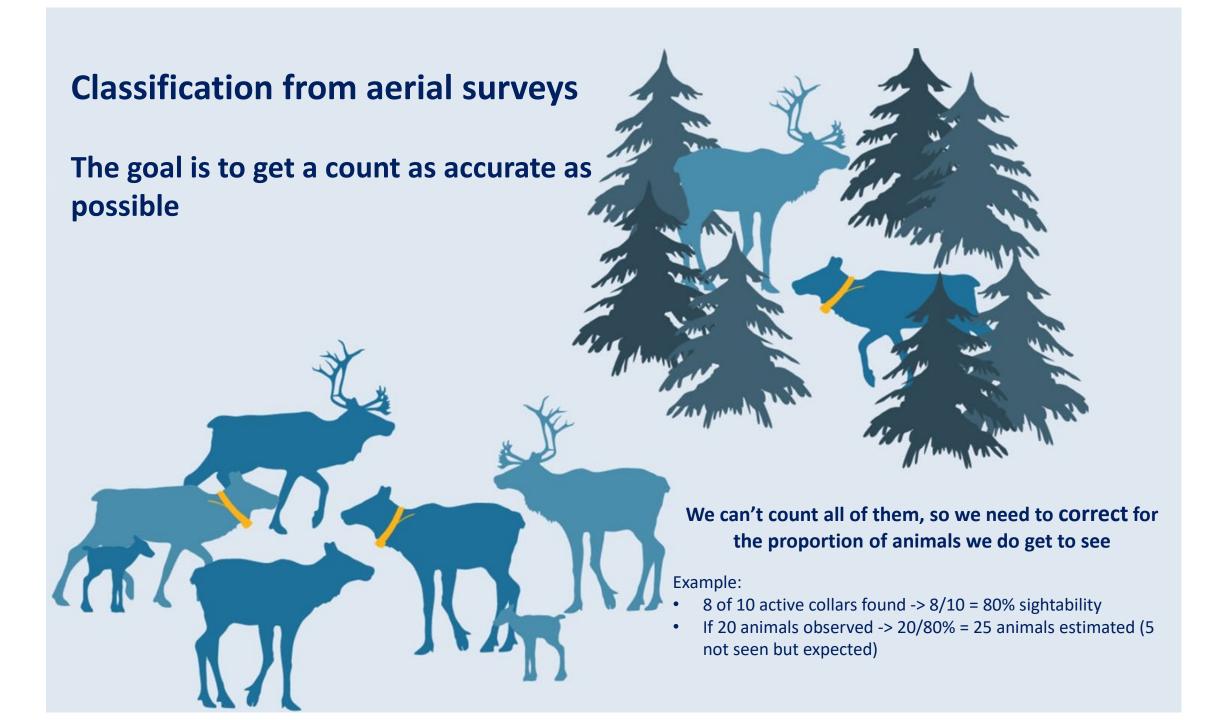
# Northeast Region Caribou Field Program 2022



# Documented caribou declines

Federal mandate to recover populations to self sustaining levels





# Essential data gathered from radio collars

**Population data** 

Proportion of calves (aerial surveys)



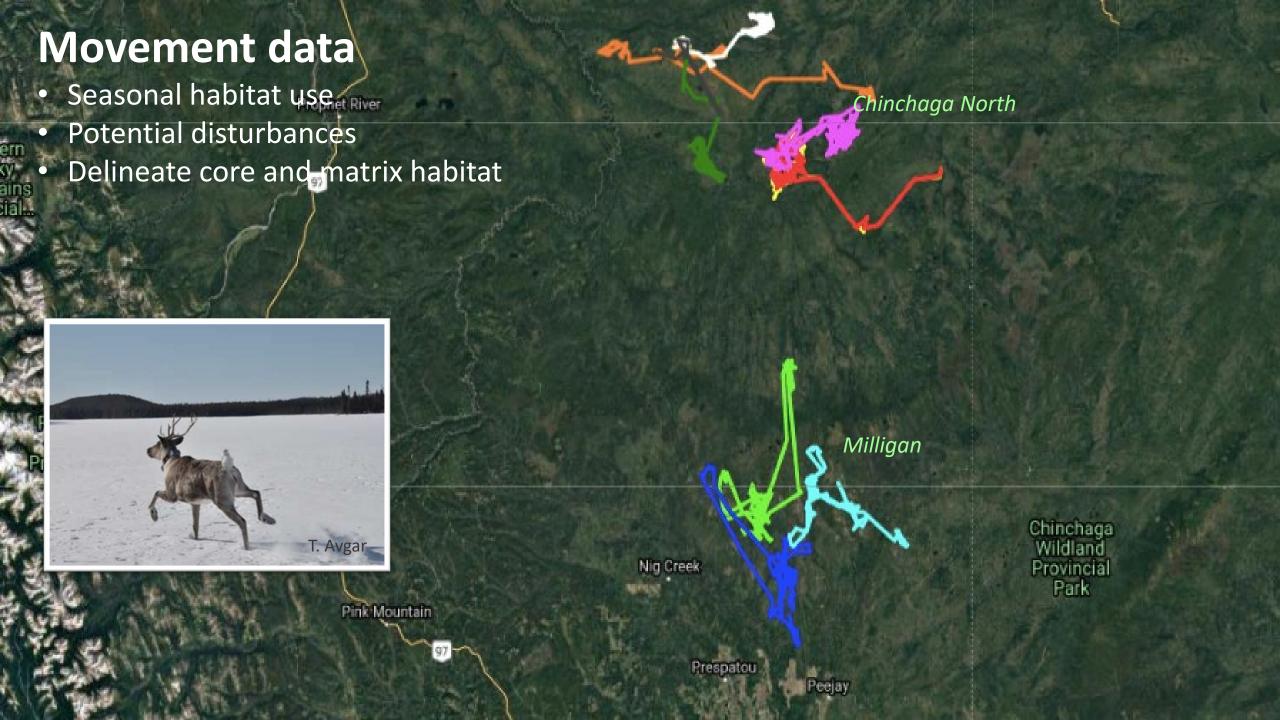
Cows survival (year round collar monitoring)



We can now assess if population is renewing itself

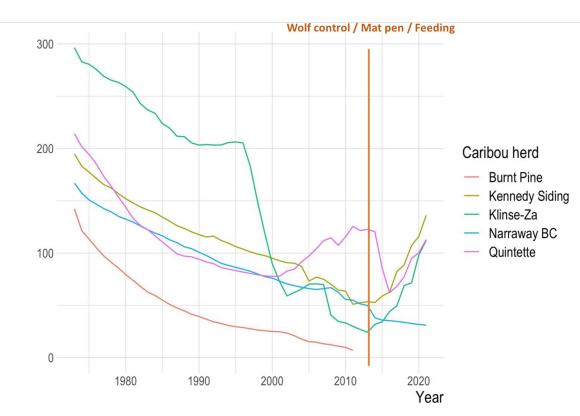
**EVIDENCE OF RENEWAL** 

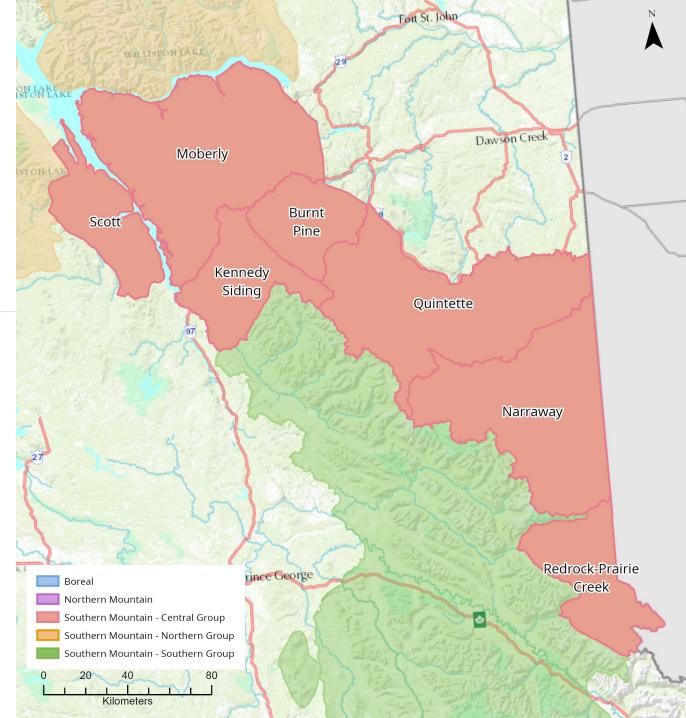
15-16% of calves in population 25-28 calves/100 cows

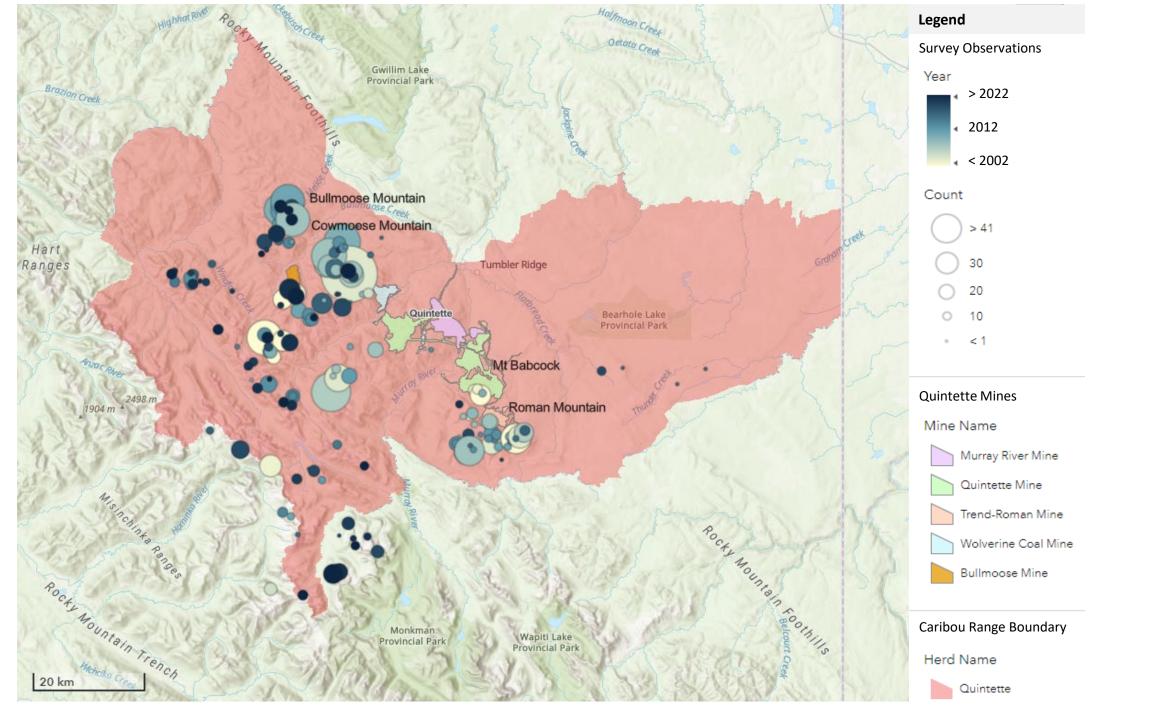


#### **Central Mountain**

### **Population Trend**







#### **Central Mountain**

# **Captures / Inventory 2022**

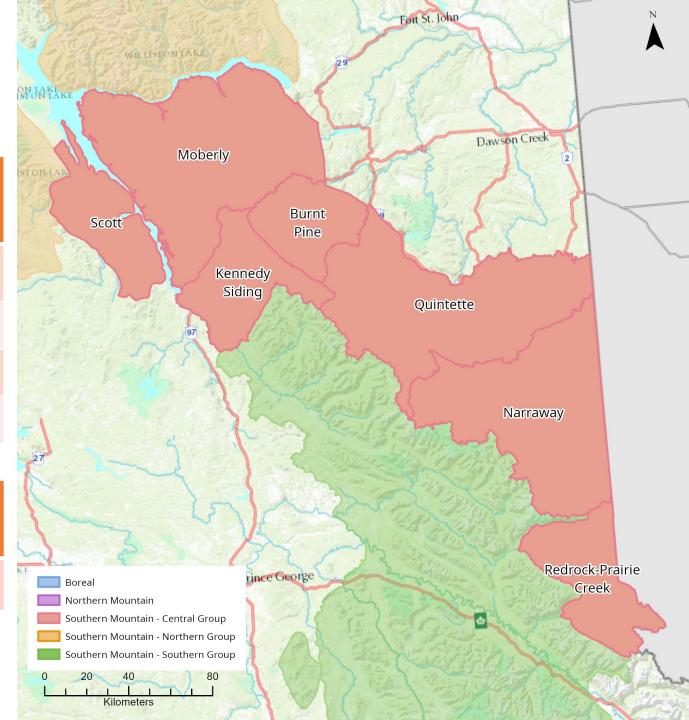
Range	# of collars deployed Jan 2022	# of active collars Sep 2022	# of deaths since April 1 <sup>st</sup> 2022
Kennedy Siding / Burnt Pine	3	12	0
Quintette	4	12	1
Narraway (new)	0	0	1 (or TRD)
TOTAL	7	24	2

Survey count	% calves	Calves:100 cows	Bulls:100 cows
422	19.9%	49	84

**Renewal target** 

15-16% of calves in pop

25 calves:100 cows

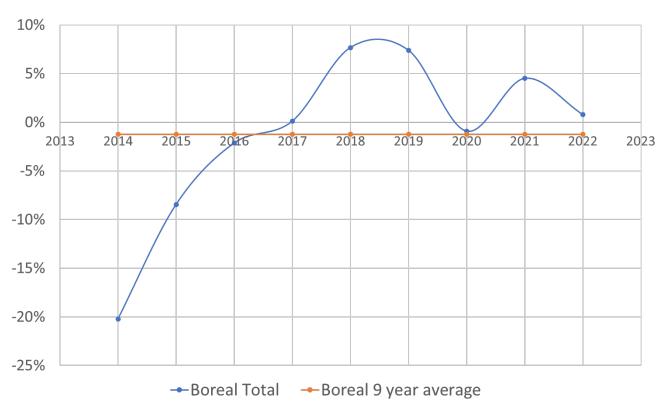


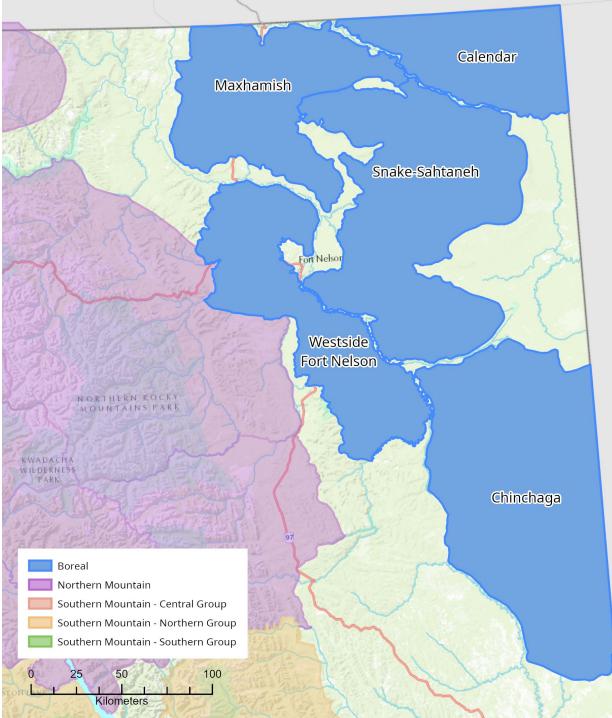
#### **Boreal**

### **Population Trend**

- Based on aerial survey counts and classification
- Survival data from collared females

Important to maintain our collar #s for accurate data

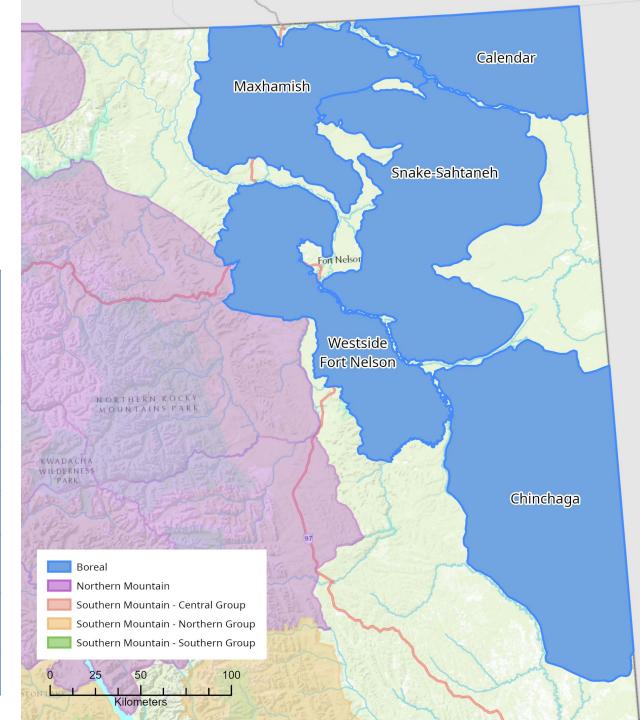




#### **Boreal**

# **Captures 2022**

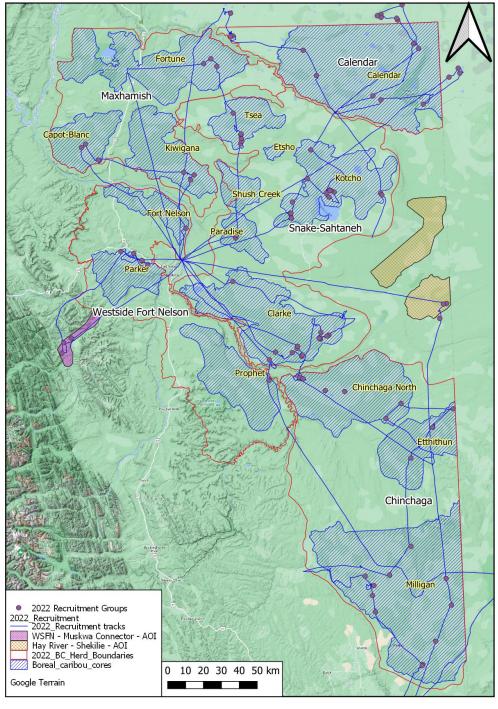
Range	# of collars deployed Jan 2022	# of active collars Sep 2022	# of deaths since April 1 <sup>st</sup> 2022
Calendar	8	8	5
Chinchaga	3	18	0
Hay River	1	0	0
Maxhamish	3	12	2
Snake-Sahtaneh	7	20	7 & 2 (uncollared)
Westside Fort Nelson	5	9	0
TOTAL	27	67	14 & 2



#### **Inventory 2022**

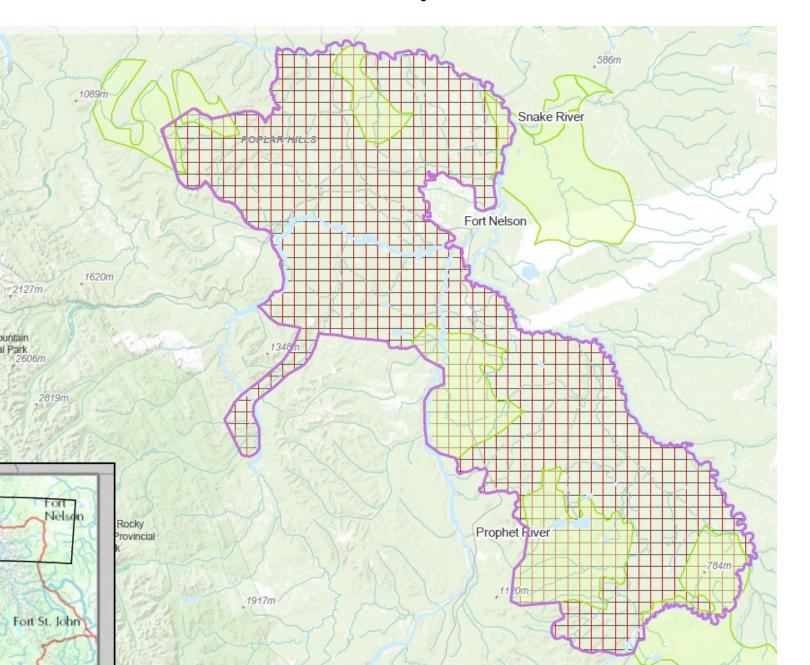
Survey count	% calves	Calves:100 cows	Bulls:100 cows
972	13.7%	22	34







#### BC Boreal Caribou DNA survey #1 – Westside Fort Nelson



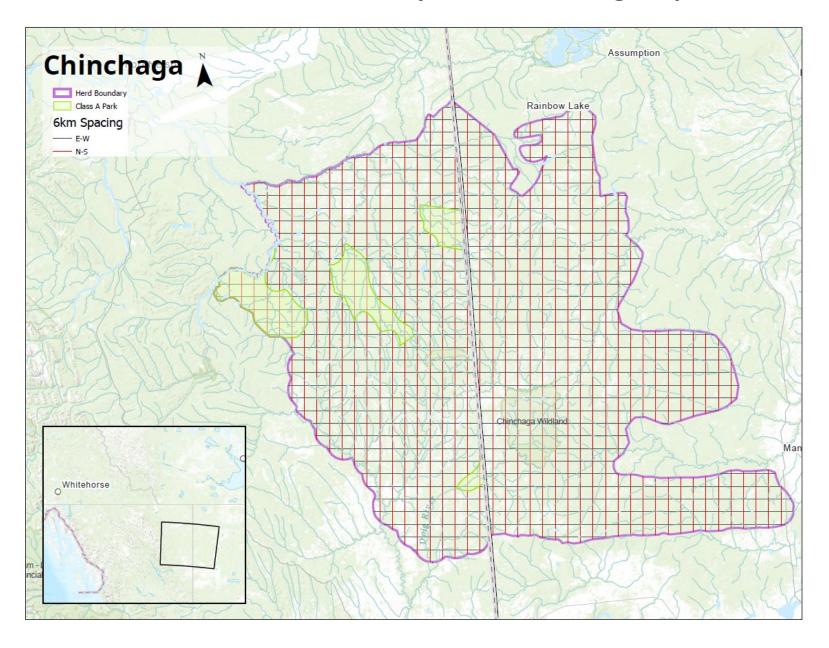
The Government of BC, Fort Nelson First Nation and Prophet River First Nation conducted the first ever DNA survey for boreal caribou in British Columbia in the winter of 2021-2022.



Caribou feces were collected from the Westside Fort Nelson Range in December 2021, January 2022 and February 2022, and were sent to a lab for analyses.

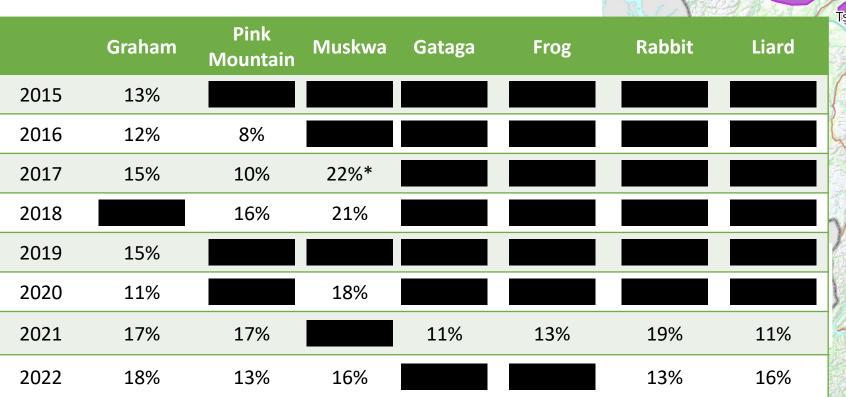


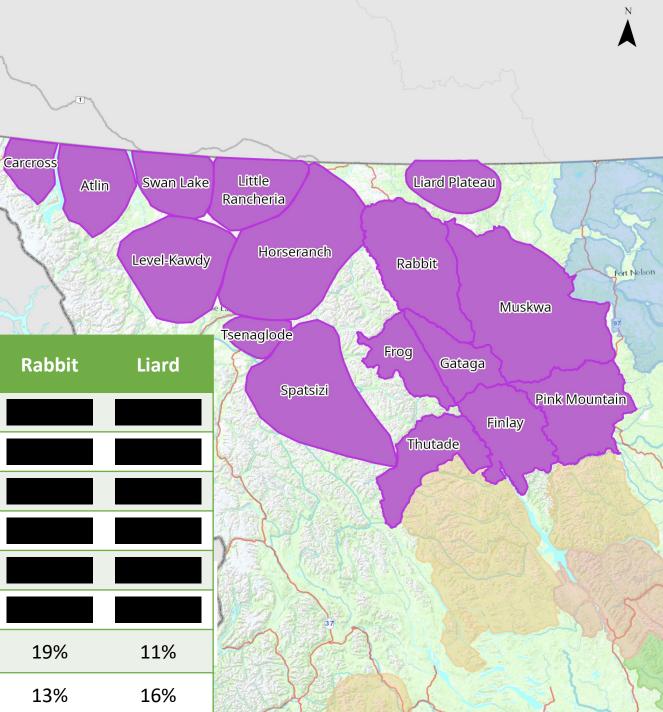
# BC Boreal Caribou DNA survey # 2 - Chinchaga - planned for 2022-23



#### **Northern Mountain**

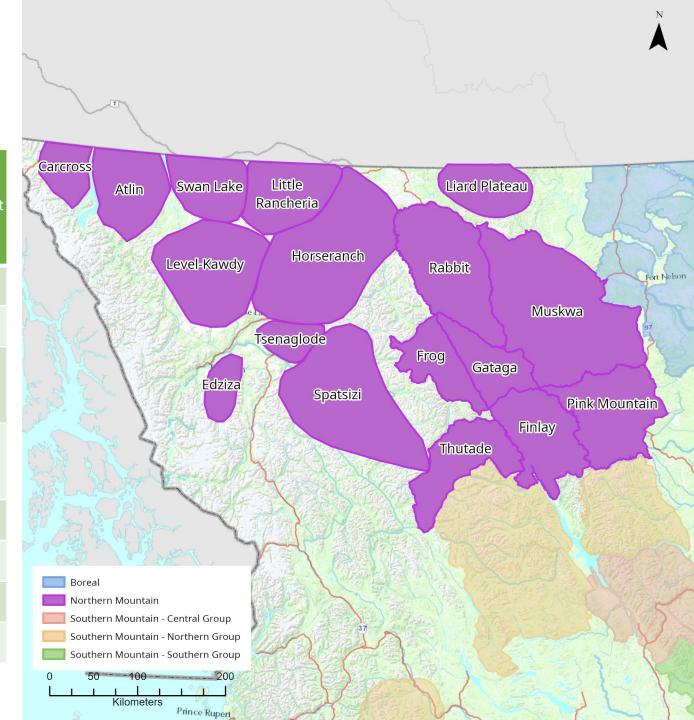
#### **Survey history** – calf recruitment data





# **Captures 2022**

Range	# of collars deployed Jan 2022	# of active collars Sep 2022	# of deaths since April 1 <sup>s</sup> 2022		
Liard	8	6	3		
Frog	6	12	1		
Gataga	7	9 (incl. 7 in R)	1		
Rabbit	14 (incl. 1 in HR)	28	4		
Muskwa	7	18	0		
Pink	8	18 & 3 VHF	0		
Graham	4	12 & 3 VHF	0		
TOTAL	54	103 & 6 VHF	9		









# **Central Mountain – Inventory 2022**

Renewal target
15-16% of calves in pop
25 calves:100 cows

	Females	Bulls	Uncl Ad	Calves	Uncl Juv	Total	% calves	Calf:cow	Bull:cow	Adult female survival	Pop estimate
Klinse Za 2022 (11 yearlings not in table)	38	42	3	20	11	114	17.5	0.53	1.11	96.20%	114 (SCF=1)
Kennedy Siding 2022 (Photo Census)	44	48	0	23	0	115	20	0.52	1.09	100%	115
Quintette 2022 (new boundary; MR)	40	24	4	18	0	86	20.9	0.45	0.60	100%	106 (SCF=0.8125)
Bearhole-Redwillow 2022 (AB data)	6	2	0	2	0	10	20	0.33	0.33		NA
Narraway 2022 (Monkman area)	10	2	6	6	0	24	25	0.60	0.20	75%	NA
South Narraway 2022 (AB data)	33	25	0	15	0	73	20.5	0.45	0.76		
TOTAL	171	143	13	84	11	422	19.9%	0.49	0.84		

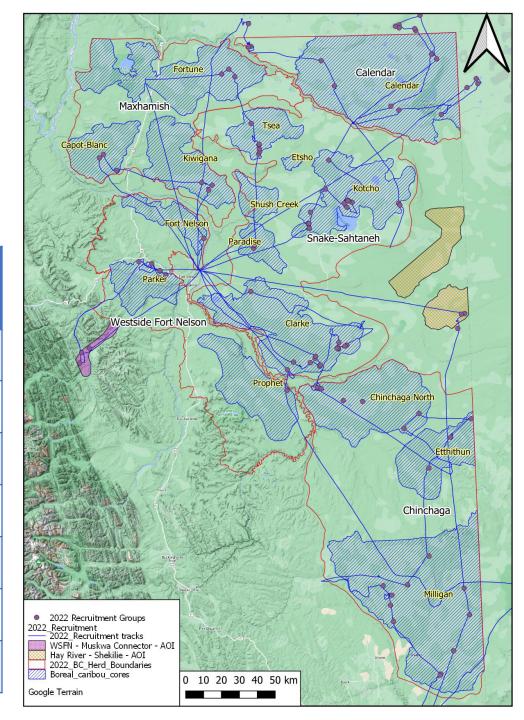
# **Boreal - Inventory 2022**

#### **Renewal target**

15-16% of calves in pop

**25 calves:100 cows** 

	Females	Bulls	Uncl Ad	Calves	Total	% calves	Calf:cow	Bull:cow	Adult female survival
Calendar	138	58	3	32	231	13.9	0.23	0.42	72%
Chinchaga	110	24	3	30	167	18.0	0.27	0.22	100%
Hay River	28	17	0	5	50	10.0	0.18	0.61	NA
Maxhamish	70	24	0	18	112	16.1	0.26	0.34	94%
Snake- Sahtaneh	204	64	7	36	314	11.5	0.18	0.31	90%
Westside Fort Nelson	61	23	2	12	98	12.2	0.20	0.38	100%
TOTAL	614	210	15	133	972	13.7	0.22	0.34	



# **Inventory 2022**

Renewal target

15-16% of calves in pop

**25** calves:**100** cows

	Females	Bulls	Uncl Ad	Calves	Total	% calves	Calf:cow	Bull:cow	Adult female survival	Pop estimate
Muskwa 2022 (recruitment)	124	67	2	36	229	15.7	0.29	0.54	96%	NA
Liard 2022 (MR)	79	46	2	24	151	15.9	0.30	0.58	NA	151 (SCF=1)
Pink 2022 (recruitment)	124	30	25	26	205	12.7	0.21	0.24	90%	NA
Graham 2022 (recruitment)	33	14	13	13	73	17.8	0.39	0.42	100%	NA
Rabbit 2022 (MR)	543	254	130	139	1063	13.1	0.26	0.47	75%	1110 (SCF=0.95)
TOTAL	903	411	172	238	1721	13.8	0.26	0.46		