Population Estimates for Caribou Herds of British Columbia
October 2021

Herd Name, Ecotype, Listing	Population Estimate[1]	Estimate Year	Population Estimate Description	Current Trend[2]	Historic Long-term Trend[3]	Population Management Actions Implemented	Comment
Southern Mountain Caribou - Southern Group (SARA Status: Threatened)							
Barkerville	65	2020	Model or Correction	Decreasing	Stable		Declined by 26% in the last 8 years (88 to 65 from 2012 to 2020)
Central Rockies	3	2008	Observed Total Count	Extirpated	Extirpated		Functionally extirpated.
Central Selkirks	28	2021	Observed Total Count	Decreasing	Decreasing	Predator reduction (2020-21)	Duncan and Nakusp herds amalgamated in 2015; all population data >2014 recorded as Central Selkirks.
Columbia North	184	2021	Model or Correction	Increasing	Decreasing	Prey mgmt (2003-20); predator red'n (2017-21); predator red'n (2017-21); maternity pen (2014-18)	Current increasing trend (avg 1.9% growth/year since 2006) can be attributed to multiple recovery actions including prey and predator management and maternal penning.
Columbia South	4	2020	Observed Total Count	Decreasing	Decreasing	Predator red'n (2017-21)	Rate of decline has decreased since predator reduction.
Frisby-Boulder	6	2020	Observed Total Count	Decreasing	Decreasing	Predator red'n (2017-21)	Rate of decline has decreased since predator reduction.
George Mtn	0	2003	Expert Knowledge	Extirpated	Extirpated		Extirpated in 2003.
Groundhog	34	2021	Observed Total Count	Stable	Decreasing		Immigration from Columbia North contributes to stable status. Percentage of calves 20.5%, above recruitment threshold
Hart Ranges	405(393-450)	2021	Model or Correction	Stable/ Decreasing	Decreasing	Predator red'n (2020-21); prey mgmt (2006-21) only in Parsnip portion	Current stable trend in Parsnip attributed to prey management; Hart R. South current trend is decreasing.
Monashee	1	2016	Observed Total Count	Extirpated	Extirpated		Functionally extirpated in 2016. 1 adult remaining.
Narrow Lake	8	2020	Observed Total Count	Decreasing	Decreasing		
North Cariboo	145(111-246)	2020	Model or Correction	Decreasing	Decreasing		

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Purcell Central	0	2006	Observed Total Count	Extirpated	Extirpated		Extirpated in 2006.
Purcells South	0	2021	Expert Knowledge	Extirpated	Extirpated		Functionally extirpated in 2019. One adult female and one adult male translocated to Columbia North in Jan 2019; one adult male and one female calf translocated to Columbia North in Mar 2019. Last resident animal died in April 2021
South Selkirks	0	2019	Expert Knowledge	Extirpated	Extirpated	Predator red'n (2015-18)	Last remaining adult female translocated to Columbia North in Jan 2019
Wells Gray North	236	2020	Model or Correction	Stable	Stable		
Wells Gray South	135	2020	Minimum Number Known Alive	Stable	Decreasing		
Southern Mountain Caribou - Central Group (SARA Status: Threatened)							
Burnt Pine	1	2014	Observed Total Count	Extirpated	Extirpated		Functionally extirpated in 2016. 1 adult male remaining.
Kennedy Siding	99	2021	Observed Total Count	Increasing	Decreasing	Predator red'n (2015-21); Supplemental feeding (2015-21)	Current ↑ trend attributed to predator management and supplemental feeding.
Moberly	101	2021	Observed Total Count	Increasing	Decreasing	Maternity Pen (2013-21); Predator red'n (2015-21)	Current ↑ trend attributed to predator management and maternal penning. Moberly & Scott herds amalgamated in 2014.
Narraway	35[4]	2020	Observed Sampled Count	Stable	Decreasing	Predator red'n (2018-21)	Current stable trend attributed to predator management.

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Quintette	120(81-228)	2021	Model or Correction	Increasing	Decreasing	Predator red'n (2015-21)	Current ↑ trend attributed to predator management. Petersen uncorrected estimate to be consistent with previous reports, and 95% CI based on standard error; issue with high # of collars in groups; collar SCF is 8/15 while group SCF is 5/8, which modifies the 95% CI: # of collars based calculation 120 (81-228) and collared group calculation 120 (74-168).
Redrock-Prairie Creek	--- ---	---	---	Unknown	Unknown		Not available; herd area primarily in Alberta with a small portion in BC
Scott	---	---	---	---	---		Moberly and Scott herds amalgamated in 2014
Southern Mountain Caribou - Northern Group (SARA Status: Special Concern)							
Charlotte Alplands	25	2020	Minimum Number Known Alive	Decreasing			
Chase	531(454-682)	2021	Model or Correction	Stable	Stable		
Graham	219(123-402)	2021	Model or Correction	Decreasing	Decreasing	Predator red'n (2020-21)	Petersen corrected estimate over the whole range provided 219(123-402); if estimating over high density areas only, estimate is 125 (70-263) ; blended estimate (estimate in high densities + observed elsewhere) is 145; out of 19 collars, 9 seen opportunistically providing 109 animals; 7 tracked providing 22 animals; 2 heard only, 1 missed. See Krebs 2017 for 95% CI calculation
Itcha-Ilgachuz	508	2020	Model or Correction	Decreasing	Decreasing	Predator red'n (2020-21)	Precipitous decline from early 2000's (~2500). First year of predator mgmt resulted in increased size.
Rainbows	24	2020	Observed Total Count	Decreasing	Decreasing		

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Takla	43	2020	Model or Correction	Decreasing	Decreasing		
Telkwa	33	2020	Observed Total Count	Increasing	Decreasing		Current ↑ trend, however, existing at very low numbers and at continual risk of extirpation
Tweedsmuir	160	2019	Minimum Number Known Alive	Decreasing	Decreasing	Predator red'n (2020-21)	Rate of decline has decreased since predator reduction.
Wolverine	264(252-316)	2019	Model or Correction	Decreasing	Decreasing		
Boreal Caribou (SARA Status: Threatened)							
Calendar	290[5]	2010	Expert Knowledge	Decreasing	Decreasing		2020 survey indicated ↓, includes animals from NWT
Chinchaga	250[5]	2010	Expert Knowledge	Decreasing	Decreasing	Predator red'n (2018-21)	2021 survey indicated 15.7% of calves in population, above recruitment threshold
Maxhamish	300[5]	2010	Expert Knowledge	Stable	Decreasing		2021 survey indicated 15.4% of calves in population, above recruitment threshold
Snake-Sahtaneh	360[5]	2010	Expert Knowledge	Decreasing	Decreasing		2021 survey indicated ↓
Westside Fort Nelson	91[4]	2021	Observed Sampled Count	Decreasing	Decreasing		2021 survey indicated 16.5% of calves in population, above recruitment threshold.
Northern Mountain Caribou (SARA Status: Special Concern)							
Atlin	1527(1077-1927)	2018	Model or Correction	Increasing	Increasing		
Carcross	775(642-935)[5]	2008	Model or Correction	Increasing	Increasing		2008 population estimate is for Laberge (Yukon) and Carcross herds combined
Edziza	75	2017	Expert Knowledge	Unknown	Unknown		
Finlay	96(65-127)	2020	Observed Total Count	Unknown	Unknown		

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Frog	114[4]	2020	Observed Sampled Count	Unknown	Unknown		Represents # of caribou observed during the 2020 sheep survey.
Gataga	138[4]	2007	Observed Sampled Count	Unknown	Unknown		
Horseranch	600(400-800)[5]	1999	Expert Knowledge	Unknown	Unknown		1999 survey included both Little Rancheria and Horseranch, with combined modelled estimate of 1767 (1817-1876)
Level-Kawdy	1500(1000-2000)	1999	Expert Knowledge	Unknown	Unknown		
Liard Plateau	131[4]	2020	Observed Sampled Count	Decreasing	Unknown		Very low percent calves (4-11%), below recruitment threshold
Little Rancheria	1200(800-1600)[5]	1999	Expert Knowledge	Unknown	Unknown		1999 survey included both Little Rancheria and Horseranch, with combined modelled estimate of 1767 (1817-1876)
Muskwa	917[5]	2004	Model or Correction	Stable	Decreasing		
Pink Mountain	533(333-879)	2021	Model or Correction	Stable	Decreasing	Predator red'n (2018-21)	Petersen corrected estimate over the whole range provided prob overestimation; if estimating over high density areas only, estimate is 460 (288-759); blended estimate (estimate in high densities + observed elsewhere) is 466; out of 21 collars, 14 seen opportunistically providing 363 animals; 7 tracked providing 14 animals (so assumptions behind Petersen likely violated). See Krebs 2017 for 95% CI calculation
Rabbit	362[4]	2021	Observed Sampled Count	Unknown	Unknown		2021-cow:calf ratio and percent calves (19%) are above the recruitment threshold)

Herd Name, Ecotype, Listing	Population Estimate[1]	Estimate Year	Population Estimate Description	Current Trend[2]	Historic Long-term Trend[3]	Population Management Actions Implemented	Comment
Spatsizi	3000(2000-4000)	1996	Expert Knowledge	Unknown	Unknown		
Swan Lake	700(600-800)	2007	Expert Knowledge	Unknown	Unknown		
Thutade	116[4]	2019	Observed Sampled Count	Unknown	Unknown		Survey area does not include Russell Range and South Sustut.
Tsenaglode	712[5]	2015	Model or Correction	Unknown	Unknown		

1. Population Estimate - when a modeled estimate includes a range, this represents a 95% Confidence Interval

2. Current Trend - within the last 2-5 years

3. Historic Long-term Trend - within the last 2-3 generations (18-27 years)

4. Not a population estimate; only represents # of caribou observed

5. More recent survey(s) conducted, but population size could not be estimated

*Population Estimate Description:

 - ***Observed - Total Count*** = number of observations during a total count Survey

 - ***Observed - Sample-based Count*** = number of observations during a sample-based Survey.

 - ***Minimum Number Known Alive*** = number of observations during a survey adjusted using additional information other than a model or sightability   correction factor (SCF). The adjusted value

 - ***Expert Knowledge*** = expert's knowledge, which is based on knowledge of survey conditions, surveyor experience, scientific opinion, and other survey data.

 - ***Model or Correction*** = estimate is adjusted via a model and/or sightability correction factor (SCF).

 - ***Model or Correction & Expert Knowledge*** = value is based on the modelled or corrected value but is adjusted via expert knowledge.

**Population Management Actions Implemented:

Visit our webpage for full descriptions of all management actions available to support caribou recovery

 https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/wildlife/wildlife-conservation/caribou/management-activities

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2021 October
Population Estimates

Carcross Pop: 775
Atlin Pop: 1527
Swan Lake Pop: 700
Little Rancheria Pop: 1200
Liard Plateau Pop: 131+
Calendar Pop: 290
Maxhamish Pop: 300
Snake-Sahtaneh Pop: 360
Horseranch Pop: 600
Rabbit Pop: 362+
Muskwa Pop: 917
Level-Kawdy Pop: 1500
Westside Fort Nelson Pop: 91+
Tsenaglode Pop: 712
Frog Pop: 114+
Gataga Pop: 138+
Edziza Pop: 75
Spatsizi Pop: 3000
Finlay Pop: 96
Pink Mountain Pop: 533
Chinchaga Pop: 250
Thutade Pop: 116+
Graham Pop: 219
Chase Pop: 531
Moberly/Scott Pop: 101
Wolverine Pop: 264
Burnt Pine 1 - ext
Quintette Pop: 120
Takla Pop: 43
Kennedy Siding Pop: 99
Hart Ranges Pop: 405
Narraway Pop: 35+
Telkwa Pop: 33
Narrow Lake Pop: 8
Tweedsmuir Pop: 160
George Mountain 0 - ext
North Cariboo Pop: 145
Itcha-Ilgachuz Pop: 508
Barkerville Pop: 65
Wells Gray South Pop: 135
Central Rockies 3 - ext
Rainbows Pop: 24
Wells Gray North Pop: 236
Groundhog Pop: 34
Charlotte Alplands Pop: 25
Columbia North Pop: 184
Frisby Boulder Pop: 6
Columbia South Pop: 4
Monashee 1 - ext
Central Selkirks Pop: 28
Purcell Central 0 - ext
Purcells South 0 - ext
South Selkirks 0 - ext

Current Population Trend

- Increasing
- Decreasing
- Stable
- Unknown
- Extirpated
- + Not a pop estimate

Caribou Classification by Ecotype

- Boreal
- Northern Mountain
- Southern Mountain - Central Group
- Southern Mountain - Northern Group
- Southern Mountain - Southern Group

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