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Conclusions

- Lack of clear evidence that wolves were/are a primary factor driving calf survival or herd abundance
- Alternatively, the assumption that wolf harvest is a proxy for wolf density/wolf predation may not be appropriate

Review of successful wolf control programs National Research Council (1997)

1) Wolves were the primary predator of all age classes of the targeted ungulate

2) Aerial wolf reduction occurs over areas of at least 10,000 km2

3) Wolves are reduced to at least 55% of their pre control numbers for at least 4 years

4) Weather is favorable for ungulate survival



Mulchatna Un	it 17	wolf control progra	m
1) Not Assessed the role of wolves in caribou mortality in any age class was not assessed.			
2) Criteria met	Mulch	atna WCA is >25,000 k	m2
3) Not Assessed	wolf	abundance was not	

determined prior to control initiation, nor at the 2017 expansion of control area

4) Not Assessed

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Mulchatna Caribou – Take Home Message.....

Current Challenges

- 1. <u>Nutritional condition</u>
 - Large variability in fall body condition, with lower % fat in lactating females (Moderate Nutritional Limitation)
- 2. <u>Brucellosis</u>
 - High prevalence rates, concentrated in Western/Central range
 - Increased observations of retained placentas and swollen joints and encounters of neonatal mortalities (e.g. stillborn, weak calves)
- 3. <u>Mortality</u>
 - Out of Season harvest wounding loss and Illegal harvest is currently the predominate cause of death in adult females
 Need to understand past and present harvest dynamics (i.e. total animals taken and
 - proportion of females harvested)
 - Non human predation none of our current data streams point to non human predators as a significant challenge to MC adults Recommend a thorough review of Unit 17 IM program

Mulchatna Caribou – Next Steps.....

We are in the 2nd of our 3 year of the study

- Process samples from fall 2021 captures brucellosis screening, diet, genetics
- Monitor for mortalities and determine cause of death
- Track the reproductive success of all collared females (n 100) relative to calving grounds, fall body condition, and brucellosis exposure status