Proposal 57

Allow Residents to Harvest Game From a Boat Under Power in Unit 21

Middle Yukon Fish and Game Advisory Committee Proposal

Department Recommendation – Neutral
KRAC – Support (with amendments)
MYAC – Support
Ruby AC – Support
GASH AC – Oppose

Proposal 57

Methods and Means / Unit 21

Safety:

- Shooting from a moving surface is unstable and creates improper balance
- Firearms should be unloaded and securely stored before transporting
- Before boarding a boat, place the unloaded firearm in the bow of the boat with the muzzle pointing forward
Proposal 57

Methods and Means / Unit 21

Accuracy

- Using correct firing techniques; unsteady boats do not allow for accurate placement of a shot
- Learning how to place a shot for a clean kill prevents wounding loss
- Understanding the importance of hunting ethically. Poor shot placement is not ethical

Proposal 57

Allow Residents to Harvest Game From a Boat Under Power in Unit 21

Middle Yukon Fish and Game Advisory Committee Proposal

Department Position – Neutral

KRAC – Support (with amendments)
MYAC – Support
Ruby AC – Support
GASH AC – Oppose
Proposal #58

Establish a Controlled Use Area in the Kaiyuh Flats area of 21D

Proponent – Middle Yukon AC
ADF&G – Neutral
MYAC – Support  Ruby AC – Support

Create Kaiyuh CUA – 58-1

Proposal #58
Kaiyuh Flats CUA

Current Seasons
• Aug 22-31
• Sept 5-25
• March 1-31 (15 days TBA)

Proposed Restrictions
No aircraft for moose hunting, year-round.
(same as Koyukuk CUA)

Create Kaiyuh CUA – 58-2
Trend Count Areas
And
Moose GSPE Survey Area

Kaiyuh - Total Adult Moose Counted
Average=748  Cows=583  Bulls=165
Kaiyuh Flats Moose Harvest - 21D  
2006 - 2018

Year
Hunters
Moose

Kaiyuh Flats Transportation - 21D  
2006 - 2018

Year
Aircraft
Boats

Avg. boat harvest = 70/yr
Avg. aircraft harvest = 5/yr
## Proposal 58 – Kaiyuh Controlled Use Area

### Unit 21D Moose IM Objectives

<table>
<thead>
<tr>
<th>Unit</th>
<th>Population Objective</th>
<th>Moose Population Estimate</th>
<th>Harvest Objective</th>
<th>Avg. Annual Harvest (rept + est. unrept)</th>
</tr>
</thead>
<tbody>
<tr>
<td>21D</td>
<td>7,000–10,000</td>
<td>10,478 (±1,572)</td>
<td>450–1,000</td>
<td>412 (287+125)</td>
</tr>
</tbody>
</table>

Create Kaiyuh CUA – 58-9

---

## Proposal 58 – Create Kaiyuh Controlled Use Area

### Unit 21 – Harvestable Surplus

<table>
<thead>
<tr>
<th>Unit</th>
<th>Prescribed Harvest rate</th>
<th>Avg annual harvest (rept + est. unrept)</th>
<th>Moose Population Estimate</th>
<th>Can Population Provide for Current level of harvest</th>
<th>Harvestable surplus</th>
</tr>
</thead>
<tbody>
<tr>
<td>21A</td>
<td>5% of observed</td>
<td>75 (45 + 30)</td>
<td>2,442</td>
<td>yes</td>
<td>120</td>
</tr>
<tr>
<td>21B</td>
<td>5% of observed</td>
<td>101 (76 + 25)</td>
<td>2,317 (±417)</td>
<td>yes</td>
<td>95*</td>
</tr>
<tr>
<td>21C</td>
<td>5% of observed</td>
<td>27 (22 + 5)</td>
<td>900-1300</td>
<td>yes</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(0.25-0.35 moose/mi²)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21D</td>
<td>5-7% of observed</td>
<td>412 (287 + 125)</td>
<td>10,478 (±1,572)</td>
<td>yes</td>
<td>445</td>
</tr>
<tr>
<td>21E</td>
<td>4% of estimate with scf</td>
<td>190 (180 + 10)</td>
<td>9,777</td>
<td>yes</td>
<td>390</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>805 (610 + 195)</td>
<td></td>
<td>1,095</td>
</tr>
<tr>
<td>Combined ANS</td>
<td></td>
<td>600-800</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create Kaiyuh CUA – 58-10

---
Summary

• Hunter numbers are stable
• Aircraft use is low and stable
• Moose population is increasing; (will utilize RM831 winter hunt; will likely need to increase DM817 permits)
• With respect to bull:cow ratios and conflict, CUAs concentrate hunters on the navigable waterways

Proposal #58
Establish a Controlled Use Area in the Kaiyuh Flats area of 21D

Proponent – Middle Yukon AC

ADF&G – Neutral

MYAC – Support Ruby AC – Support
Proposal #59

Add 15 days in December to the new RM831 Winter hunt

Proponent – Member of the Public
ADF&G – Neutral
MYAC – Opposed Ruby AC – Support

Moose Seasons

Current
• Aug 22-31
• Sept 5-25
• March 1-31 (15 days TBA) (NEW 03/19 = 5C:3B)

Proposed
• Aug 22-31
• Sept 5-25
• December 1-31 (15 days TBA)
• March (15 days TBA)
Proposal #59
Moose Population Trends

- Increasing moose population
- Kaiyuh Flats Sub-Area GSPE; [2011 = 1,897 (± 209); 2017 = 4,116 (± 412)]
- Kaiyuh Flats TCAs; [2001-2017 avg. = 748 adults; 2018 = 1,075 adults]
- Increasing in southern 21D, but decreasing in northern 21D
- Twinning Rates stable and high
Kaiyuh Flats TCAs - Calves:100 Cows

Year

Calves:100 Cows

Extend Winter Registration hunt – 59-5

Kaiyuh Flats TCAs - Bull:100 Cows

Year

Bulls:100 Cows

Extend Winter Registration hunt – 59-6
Kaiyuh - Total Adult Moose Counted
Average=748  Cows=583  Bulls=165

Kaiyuh Flats - Twinning Rate
2004 - 2019
Proposal #59

Hunt Considerations

- Original Proposal considered December season option – rejected due to safety concerns with late freeze-up.
- Concern with proposed hunt is that, if the quota is reached in December it forces hunters to hunt in December.
- RM831 Hunt is New – Harvest patterns haven’t been established. More time is needed to assess use patterns with new hunt.
- Reporting is a concern and quota hunts risk exceeding the harvestable surplus.

Extend Winter Registration hunt – 59-9

Proposal #59

Add 15 days in December to the new RM831 Winter hunt

Proponent – Member of the Public

ADF&G – Neutral

MYAC – Opposed Ruby AC – Support

Extend Winter Registration hunt – 59-10
Proposal #60

Reauthorize the 21D Antlerless season (new RM831 winter hunt)

Proponent – ADF&G
ADF&G – Support
MYAC – Support

Moose Seasons

Current
• Aug 22-31
• Sept 5-25
• March 1-31 (15 days TBA) - Any Moose
Proposal #60

Moose Population Trends

- Increasing moose population
- Kaiyuh Flats Sub-Area GSPE; 
  [2011 = 1,897 (± 209); 2017 = 4,116 (± 412)]
- Kaiyuh Flats TCAs; 
  [2001-2017 avg. = 748 adults; 2018 = 1,075 adults]
- Increasing in southern 21D, but 
  decreasing in northern 21D
- Twinning Rates stable and high
Proposal #60

Summary

- The moose population is increasing
- The number of cows is increasing at a faster rate than bulls
- The 21D moose population meets the population objective
- Twinning rates are high and stable
Proposal #60

Reauthorize the 21D Antlerless season (new RM831 winter hunt)

Proponent – ADF&G
ADF&G – Support
MYAC – Support

Proposal #61

Extend the fall moose season in 24B - Kanuti CUA portion only

Proponent – Koyukuk River AC
ADF&G – Support (opportunity); Oppose (harvest during breeding).
KRAC – Support
Proposal #61
Resident Moose Seasons

Current
• Sept 1 – Sept 25
• Dec 15 – Apr 15

Proposed
• Sept 1 – Oct 1 (KCUA only)
• Sept 1 – Sept 25 (remainder)
• Dec 15 – Apr 15

Land Status:
• 58% Federal
• 26% Native/Private
• 15% State
State Moose Seasons:
- Sept. 1-25
- Dec. 15-Apr. 15
  - 146 days

Federal Moose Seasons:
- Aug. 25-Oct. 1
- Dec. 15-Apr. 15
  - 159 days (federally qualified)
  - 0 days (non-federally qualified)

Land Status:
- 58% Federal
- 26% Native/Private
- 15% State

Bayesian Multiplicative Model Fit
UKMA - GSPE Total Moose Estimates

Extend 24B Fall Hunt – 61-4
### Proposal 61 – September Moose Season

#### Change in 24B

**IM Objectives**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Population Objective</th>
<th>Moose Population Estimate</th>
<th>Harvest Objective</th>
<th>Avg. Annual Harvest (rept + est. unrept)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24A</td>
<td>1,200–1,500</td>
<td>790±250</td>
<td>75–125</td>
<td>35 (19+16)</td>
</tr>
<tr>
<td>24B</td>
<td>4,000–4,500</td>
<td>3,203±850</td>
<td>150–250</td>
<td>65 (35+30)</td>
</tr>
<tr>
<td>24C</td>
<td>1,000–1,500</td>
<td>562±130</td>
<td>50–125</td>
<td>37 (20+17)</td>
</tr>
<tr>
<td>24D</td>
<td>5,000–6,000</td>
<td>4,380±477</td>
<td>225–425</td>
<td>179 (97+82)</td>
</tr>
</tbody>
</table>
### Proposal 61 – September Moose Season

#### Change in 24B

#### Harvestable Surplus

<table>
<thead>
<tr>
<th>Unit</th>
<th>Prescribed Harvest rate</th>
<th>Avg annual harvest (rept+ est. unrept)</th>
<th>Moose Population Estimate</th>
<th>Can Population Provide for Current level of harvest</th>
<th>Harvestable surplus</th>
</tr>
</thead>
<tbody>
<tr>
<td>24A</td>
<td>5% of observed</td>
<td>35 (19+16)</td>
<td>790±250</td>
<td>yes</td>
<td>40</td>
</tr>
<tr>
<td>24B</td>
<td>5% of observed</td>
<td>65 (35+30)</td>
<td>3,203±850</td>
<td>yes</td>
<td>160</td>
</tr>
<tr>
<td>24C</td>
<td>5% of observed</td>
<td>37 (20+17)</td>
<td>562±130</td>
<td>yes</td>
<td>28</td>
</tr>
<tr>
<td>24D</td>
<td>5% of observed</td>
<td>179 (97+82)</td>
<td>4,380±477</td>
<td>yes</td>
<td>219</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>316 (171+145)</td>
<td>8,935±1,708</td>
<td>yes</td>
<td>447</td>
</tr>
<tr>
<td>Combined ANS</td>
<td></td>
<td>170-270</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Extend 24B Fall Hunt – 61-8**

### Middle Yukon/Koyukuk - Reported Moose Harvest

#### 2001-2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Local Harvest</th>
<th>Total Harvest</th>
<th>Census Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>150</td>
<td>210</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>200</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>250</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>2004</td>
<td>300</td>
<td>350</td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>350</td>
<td>400</td>
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</tr>
<tr>
<td>2006</td>
<td>400</td>
<td>450</td>
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<td>2007</td>
<td>450</td>
<td>500</td>
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<td>2008</td>
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<td>550</td>
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<td>2009</td>
<td>550</td>
<td>600</td>
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<tr>
<td>2010</td>
<td>600</td>
<td>650</td>
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<td>650</td>
<td>700</td>
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<td>2012</td>
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<td>750</td>
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<td>800</td>
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<td>850</td>
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<tr>
<td>2015</td>
<td>850</td>
<td>900</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>900</td>
<td>950</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>950</td>
<td>1,000</td>
<td></td>
</tr>
<tr>
<td>2018</td>
<td>1,000</td>
<td>1,050</td>
<td></td>
</tr>
</tbody>
</table>

*Includes communities of Tanana, Ruby, Galena, Koyukuk, Nabvo, Kaltag, Hiska, Hughes, Aniak, Alakanuk, Bettles, Evanville, Wiseman, and Coldfoot.

**Extend 24B Fall Hunt – 61-9**
Proposal #61

Summary

1. Population below management objectives.
2. IM program implemented in UKMA.
3. State hunts have 146 days of opportunity, federal hunts offer 258 days of hunting opportunity in 24B.
4. For the proposed area, there are 0 days of hunting opportunity for non-federally qualified hunters on federal lands in the Kanuti Controlled Use Area.
5. The Department opposed: a) Federal late fall seasons and the b) Federal Kanuti Controlled Use Area closure.
Proposal #61

Summary

6. Harvest is stable, per capita harvest is increasing.
7. Opportunity for bull harvest exists, but not during peak breeding period.
8. Additional harvest opportunity is available. However, improving hunter access by eliminating federal closed areas is the solution to that problem.

Extend 24B Fall Hunt – 61-12

Proposal #61

Extend the fall moose season in 24B - Kanuti CUA portion only

Proponent – Koyukuk River AC

ADF&G – Support (opportunity); Oppose (harvest during breeding).

KRAC – Support

Extend 24B Fall Hunt – 61-13
Proposal #62

Allocate 90% of Unit 21B draw permits (DM809/DM810/DM811) to resident hunters and....

Proponent – Member of the Public
ADF&G – Neutral
Ruby AC – Support  KRAC – Opposed

Proposal #62

Moose Permit Hunts (21B)

Upper Nowitna River Drainage
1) GM000 – Outside 4-mile corridor
2) RM834 Permit – residents only
3) Drawing Hunts (DM809-DM811)
   resident:nonresident allocation
   • 50% resident : 50% nonresident
   75% guided : 25% nonguided
Proposal 62 – Allocate 90% of Drawing permits to residents in 21B

Upper Drainage Unit 21B

Applicants:
Residents = 73%
Nonresidents = 27%

Hunted:
Residents = 43%
Nonresidents = 78%
Proposal 62 – Allocate 90% of Drawing permits to residents in 21B

Policy 2017-222-BOG
Allocation of Permits
...allocations...based on historic patterns of resident and nonresident use over the past 10 years.

<table>
<thead>
<tr>
<th>Unit and regulatory years</th>
<th>Avg. number of resident hunters</th>
<th>Avg. number of nonresident hunters</th>
<th>Avg. resident harvest</th>
<th>Avg. nonresident harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 21B – All</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1997–2006</td>
<td>168</td>
<td>28</td>
<td>63</td>
<td>11</td>
</tr>
<tr>
<td>2007–2018</td>
<td>195</td>
<td>25</td>
<td>67</td>
<td>10</td>
</tr>
<tr>
<td>Upper Unit 21B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1997–2006</td>
<td>15 (63%)</td>
<td>9 (37%)</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>2007–2018</td>
<td>15 (60%)</td>
<td>10 (40%)</td>
<td>9</td>
<td>6</td>
</tr>
</tbody>
</table>
Proposal 62 – Allocate 90% of Drawing permits to residents in 21B

5 AAC 92.052(23)
Undersubscribed Permits
...surplus permits MAY be made available...nonresidents

5 AAC 92.069(3)
Guided/Unguided Allocation
...the department SHALL issue a maximum of 75% of the available nonresident permits to guided nonresidents...

### 21B Drawing Hunts – 62-7

<table>
<thead>
<tr>
<th>Regulatory year</th>
<th>Number of permits</th>
<th>% surplus</th>
<th># permits</th>
<th>% surplus</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>2</td>
<td>25%</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>2010</td>
<td>3</td>
<td>30%</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>2011</td>
<td>3</td>
<td>30%</td>
<td>0</td>
<td>7</td>
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<td>2012</td>
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<td>30%</td>
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<td>30%</td>
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<td>30%</td>
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<td>7</td>
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<tr>
<td>2019</td>
<td>3</td>
<td>30%</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>average</td>
<td>3</td>
<td>30.8%</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

Proposal 62 – Allocate 90% of Drawing permits to residents in 21B

Upper Drainage Unit 21B – nonresident Moose Harvest

<table>
<thead>
<tr>
<th>Regulatory year</th>
<th>DM809 (nonguided)</th>
<th>DM811 (guided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of permits</td>
<td>% surplus</td>
<td># permits</td>
</tr>
<tr>
<td>2009</td>
<td>2</td>
<td>25%</td>
</tr>
<tr>
<td>2010</td>
<td>3</td>
<td>30%</td>
</tr>
<tr>
<td>2011</td>
<td>3</td>
<td>30%</td>
</tr>
<tr>
<td>2012</td>
<td>3</td>
<td>30%</td>
</tr>
<tr>
<td>2013</td>
<td>3</td>
<td>30%</td>
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<td>2014</td>
<td>3</td>
<td>33%</td>
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<td>2015</td>
<td>3</td>
<td>30%</td>
</tr>
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<td>2017</td>
<td>3</td>
<td>30%</td>
</tr>
<tr>
<td>2018</td>
<td>3</td>
<td>30%</td>
</tr>
<tr>
<td>2019</td>
<td>3</td>
<td>30%</td>
</tr>
<tr>
<td>average</td>
<td>3</td>
<td>29.8%</td>
</tr>
</tbody>
</table>
Proposal #62
Allocate 90% of Unit 21B draw permits (DM809/DM810/DM811) to resident hunters and...

Proponent – Member of the Public
ADF&G – Neutral
Ruby AC – Support  KRAC – Opposed

Proposal #63
Repeal Dalton Highway Corridor Management Area (DHCMA)

Proponent – Fairbanks AC
ADF&G – Support
KRAC – Opposed
Proposal #63

Regulations

- 5 AAC 92.530(7) - (DHCMA) - 1975 & 1983
- 5 AAC 92.990/5 AAC 92.004 (c) - (definitions)

Statutes

- AS 19.40.210 - (Highways) - 1980
- AS 16.05.789 - (Fish and Game) - 1980

Federal Regulations

- 43 CFR 8341.1 (d)(3)/ANILCA section 811(b)

State Regulations (DNR)

- 11 AAC 96.020
Multi-tiered Management
Aligning Restrictions/Exceptions

5 AAC 92.530
AS 19.40.210
AS 16.05.789
11 AAC 96.020
43 CFR 8341.1 / ANILCA § 811(b)

Proposal #63
Issue Summary

- Redundancy
- Confusion
  - Agencies
  - Public
- Enforcement Issues occurring (Regulation and Statute)
  - Examples
- Road uses have changed
- Road network has expanded
- Laws have evolved (expanded and misalignment)
- Repeal vs. Revise
- No biological issues
- Enforcement
Proposal #63

What happens if 5 AAC 92.530 is repealed?

• Less confusion for public; fewer layers of law, doesn’t require BOG alignment response (e.g. dual-management)
• Firearm prohibition for hunting; no change
• Off-road travel prohibited; no change
• Vehicles on exempted roads; no change
• Snowmachines (trapping) limited allowed; no change

Proposal #63

What happens if 5 AAC 92.530 is repealed?

• “Current Users” on non-exempted roads would be legalized for hunting; no effective change to what is being enforced

• “Potential Users” on non-exempted roads; Hwy. Veh. “loophole” eliminated, the limiting factor is still few roads, landowner controlled, … If not repealed, enforcement issues will occur, enforcement needed.
• Land managers responsible for habitat concerns; no change
Proposal #63
Repeal Dalton Highway Corridor Management Area (DHCMA)
Proponent – Fairbanks AC
ADF&G – Support
KRAC – Opposed

Proposal #64
Revise Dalton Highway Corridor Management Area (DHCMA)
Proponent – ADF&G
ADF&G – Support
KRAC – Support
Proposal #64

What happens if 5 AAC 92.530 is revised using ADFG option?

- Confusion for public; remains unresolved
- Firearm prohibition for hunting; no change
- Off-road travel prohibited; no change
- Vehicles on exempted roads; no change
- Snowmachines (trapping) limited allowed; no change

• “Current users” on non-exempted roads for hunting; more exempted roads, thus fewer enforcement issues on those roads.

• “Potential users” on non-exempted roads; limited use…few roads on State lands is still the limiting factor, landowner controlled… enforcement issues will occur, enforcement needed*

• Land managers responsible for habitat concerns; no change

*Statute Change needed: Add AS 19.40.210 (DHCMA) to the list of statutes with assigned penalties, AS 19.40.065.
Proposal #64
Revision Language - Key Points

• Management Area vs. Controlled Use Area
  • Hunting Regulation (NOT trapping)
• 1/4-mile corridor vs. 1-mile corridor exemption
• Exempted Road additions
• Haul Road description clarification
• Align language with statute (off-road vehicle)
• Simplify snowmachine use language

Proposal #64
What happens if 5 AAC 92.530 is revised using ADFG option?

• If revised, it will be important to clarify the management intent of the regulation, and why we would simply amend the regulation whenever a new egress road is developed.

• If revised, it will also be important for the Board to provide direction on which restrictions they intend to be enforced.
Proposal #64

Revise Dalton Highway Corridor Management Area (DHCMA)

Proponent – ADF&G
ADF&G – Support
KRAC – Support

Proposal 65

Increase the Resident Bag Limit for Ray Mountains Caribou Herd in Unit 20F

Tanana Rampart Manley Advisory Committee Proposal

Department Recommendation – Oppose
Koyukuk River AC – Oppose
Tanana Rampart Manley AC – Withdrew proposal
Proposal 65  Caribou / Unit 20F

**Current Regulations**
- 20F North of the Yukon River
- Residents: One caribou 10 August –31 March
- Nonresidents: One caribou 10 August –30 September

**Proposed Regulations**
- 20F North of the Yukon River
- Residents: Two caribou 10 August –31 March, only one can be taken before 1 November
- Nonresidents: One caribou 10 August –30 September
Proposal 65  
Caribou / Unit 20F

**Ray Mountains Caribou Herd Minimum Counts**  
(peak count used for each year)

- Most recent minimum count = 679 caribou (September)
- Highest 2019 count = 804 caribou (June)
- Using a 2–3% harvest rate should allow for a harvestable surplus of 15–20 caribou per year.
Proposal 65

Increase the Resident Bag Limit for Ray Mountains Caribou Herd in Unit 20F

Tanana Rampart Manley Advisory Committee Proposal

Department Position – Oppose

Koyukuk River AC – Oppose

Tanana Rampart Manley AC – Withdrew proposal
Proposal 66

Reduce the Bag Limit and Extend the Season Dates for Caribou in Unit 24A
Remainder for Residents

Public Proposal

Department Recommendation – Oppose

KRAC – Oppose
Proposal 66  

**Caribou / Unit 24A**

### Current Regulations
- Residents: 10 caribou/year; 1 July–30 April
- Nonresidents: 2 bulls/year; 1 August – 30 September

### Proposed Regulations
- Season dates and bag limits would not align with PCH or any other caribou herd in the area.
  - Residents: 5 caribou/year; 1 July–15 May (15 additional days of opportunity, 5 less caribou per year)
  - Nonresidents: 2 bulls/year; 1 August – 30 September
Proposal 66

Porcupine Caribou Population Size, 1977–2018

- PCH abundance stable or increasing

Hodzana Hills Caribou Minimum Count, 2005–2019

- HHH abundance likely declining
### Proposal 66  Caribou / Unit 24A

- **PCH**: Low hunting pressure, <3% harvest
  - In Unit 24A remainder average annual reported harvest = 3 caribou (RY16–RY18)

- **HHH**: Low hunting pressure, 1.2 caribou/year (RY09–RY18)
  - Total harvest 24A remainder = 2 caribou (RY16–RY18)

---

### Proposal 66  Caribou / Unit 24A

- **PCH**
  - Positive C&T finding (Units 25A, 25B, 25D, 26B and 26C)
  - ANS of 1,250–1,550 for this herd

- **HHH**
  - No C&T finding

- **GMH, WMH, RMH**
  - Positive C&T finding (Units 20F, 21B, 21C, 21D and 24)
  - ANS of 150–200 for these three herds combined
Proposal 66

Caribou / Unit 24A

- Changing the regulation will create confusion
- Seasons and bag limits should reflect the range of the PCH because that is the herd that is primarily in that range

Proposal 66

Reduce the Bag Limit and Extend the Season Dates for Caribou in Unit 24A Remainder for Residents

Public Proposal

Department Position – Oppose

KRAC – Oppose
Proposal 67

Increase the Bag Limit for Brown Bears in Unit 21D

Middle Yukon Fish and Game Advisory Committee Proposal

Department Recommendation – Support
MYAC – Support
KRAC – Support
Ruby AC – Support
## Proposal 67

### Current Regulations
- Both residents and nonresidents
  - ONE bear
  - 10 August – 30 June
  - Hide and skull salvage required
  - Sealing required within 30 days of kill.
  - Spring and fall baiting allowed

### Proposed Regulations
- Both residents and nonresidents
  - TWO bears
  - 10 August – 30 June
  - Hide and skull salvage required
  - Sealing required within 30 days of kill.
  - Spring and fall baiting allowed
  - Brown bear hides (with claws attached) and skulls may be sold after sealing.

### Proposal 67

#### Harvest is below management objective: 3-year mean harvest of at least 25 bears (50% male) combined for 21BCD
- Average of 17 bears per year, 63% male harvest
  - 2016-2017: 16 bears (8 males, 8 females)
  - 2017-2018: 18 bears (13 males, 5 females)
  - 2018-2019: 17 bears (11 males, 6 females)
- Average age 8.5 years
### Proposal 67

**Brown Bear / Unit 21D**

- Unit 21D, currently has low annual brown bear harvest
  - Average of 10 bears per year, 67% male harvest
    - 2016-2017: 11 bears (6 males, 5 females)
    - 2017-2018: 9 bears (7 males, 2 females)
    - 2018-2019: 10 bears (7 males, 3 females)
  - Average age 8.6 years

---

### Proposal 67

**Brown Bear / Unit 21D**

- 21D: Harvest of brown bears at bait stations approved in 2012
  - April 15–June 30
  - August 1–September 30
  - 3 brown bears harvested over bait
### Proposal 67
**Brown Bear / Unit 21D**

- Nearby Units with 2 bear bag limits demonstrate that most hunters do not take 2 bears.
- If approved, harvest could increase by up to 5 bears
  - 3 of 35 hunters (all nonresident) in unit 19A harvested 2 bears
  - 0 of 24 hunters in 19D harvested 2 bears
  - 5 of 99 hunters (all residents) in 20E harvested 2 bears

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### Proposal 67
**Brown Bear / Unit 21D**

- No conservation concerns if approved for 21D
  - Currently low annual harvest from hunting
  - Estimated population 350–400 bears in Units 21BCD
  - Using a conservative 5–6% harvest rate, harvestable surplus is at least 18–24 bears per year for Units 21BCD
  - Positive C&T finding, 20–25 ANS (combined with Unit 22)
  - If passed, the sale of brown bear hides (with claws attached) and skulls from bears may be sold after sealing.
Proposal 67

Increase the Bag Limit for Brown Bears in Unit 21D

Middle Yukon Fish and Game Advisory Committee Proposal

Department Position – Support
MYAC – Support
KRAC – Support
Ruby AC – Support

Proposal 68

Establish a Fall Bear Baiting Season in Unit 21C from August 1–September 30

Public Proposal

Department Recommendation – Support
MYAC – Support
KRAC – Support
Proposal 68

Current Regulations
- Both residents and nonresidents
  - One bear
  - 10 August – 30 June
  - Hide and skull salvage required
  - Sealing required within 30 days of kill.
  - Spring baiting allowed (15 April – 30 June)

Proposed Regulations
- Both residents and nonresidents
  - One bear
  - 10 August – 30 June
  - Hide and skull salvage required
  - Sealing required within 30 days of kill.
  - Spring (15 April – 30 June) and fall (1 August – 30 September) baiting allowed
<table>
<thead>
<tr>
<th>Proposal 68</th>
<th>Bear Baiting/ Unit 21C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Regulations</strong></td>
<td><strong>Proposed Regulations</strong></td>
</tr>
<tr>
<td>o Both residents and nonresidents</td>
<td>o Both residents and nonresidents</td>
</tr>
<tr>
<td>o Three bears</td>
<td>o Three bears</td>
</tr>
<tr>
<td>o No closed season</td>
<td>o No closed season</td>
</tr>
<tr>
<td>o Meat salvage required (January 1–May 31)</td>
<td>o Meat salvage required (January 1–May 31)</td>
</tr>
<tr>
<td>o Meat or hide (with claws attached) salvage required (June 1–December 31)</td>
<td>o Meat or hide (with claws attached) salvage required (June 1–December 31)</td>
</tr>
<tr>
<td>o No sealing requirement</td>
<td>o No sealing requirement</td>
</tr>
<tr>
<td>o Spring baiting allowed (15 April –30 June)</td>
<td>o Spring (15 April –30 June) and fall (1 August–30 September) baiting allowed</td>
</tr>
</tbody>
</table>

Proposal 68

| 21C: Harvest of brown bears at bait stations approved in 2017 |
| o April 15–June 30 |
| o 2 open seasons since approval, 2 brown bears harvested over bait |

| 21D: Harvest of brown bears at bait stations approved in 2012 |
| o April 15–June 30 |
| o August 1–September 30 |
| o 3 brown bears harvested over bait |

| 24C, 24D: Harvest of brown bears at bait stations approved in 2014 |
| o April 15–June 30 |
| o August 1–September 30 |
| o 2 brown bears harvested over bait |
2012 Approved
Black & Brown Bear Baiting
Spring: 15 April – 30 June
Fall: 1 August – 30 September
Black & Brown Bear Baiting

Proposal 68 Bear Baiting/ Unit 21C

- Harvest is below management objective: 3-year mean harvest of at least 25 bears (50% male) combined for 21BCD
  - Average of 17 bears per year, 63% male harvest
    - 2016-2017: 16 bears (8 males, 8 females)
    - 2017-2018: 18 bears (13 males, 5 females)
    - 2018-2019: 17 bears (11 males, 6 females)
  - Average age 8.5 years
Proposal 68

- Unit 21C, currently has low annual brown bear harvest
  - Average of 6 bears per year, 63% male harvest
    - 2016-2017: 3 bears (2 males, 1 females)
    - 2017-2018: 9 bears (6 males, 3 females)
    - 2018-2019: 7 bears (4 males, 3 females)
  - Average age 9.4 years

Proposal 68

- Current Black Bear Baiting Seasons in 21C
  - Spring: 15 April – 30 June

- No conservation concerns if approved for 21C
  - Average of ~6 bear black bear bait sites registered annually (2012–2018).
  - Currently low annual harvest from hunting
Proposal 68
Establish a Fall Bear Baiting Season in Unit 21C from August 1–September 30

Public Proposal

Department Position – Support
MYAC– Support
KRAC – Support

Proposal 69
Establish a Fall Bear Baiting Season in Unit 21C from August 1–September 30

Fairbanks AC proposal

Department Recommendation – Support

MYAC– Support
KRAC – Support
**Proposal 69**

**Brown Bear / Unit 21C**

**Current Regulations**
- Both residents and nonresidents
  - One bear
  - 10 August – 30 June
  - Hide and skull salvage required
  - Sealing required within 30 days of kill.
  - Spring baiting allowed (15 April – 30 June)

**Proposed Regulations**
- Both residents and nonresidents
  - One bear
  - 10 August – 30 June
  - Hide and skull salvage required
  - Sealing required within 30 days of kill.
  - Spring (15 April – 30 June) and fall (1 August – 30 September) baiting allowed
### Proposal 69
#### Bear Baiting/ Unit 21C

#### Current Regulations
- Both residents and nonresidents
  - Three bears
  - No closed season
  - Meat salvage required (January 1–May 31)
  - Meat or hide (with claws attached) salvage required (June 1–December 31)
  - No sealing requirement
  - Spring baiting allowed (15 April –30 June)

#### Proposed Regulations
- Both residents and nonresidents
  - Three bears
  - No closed season
  - Meat salvage required (January 1–May 31)
  - Meat or hide (with claws attached) salvage required (June 1–December 31)
  - No sealing requirement
  - Spring (15 April –30 June) and fall (1 August–30 September) baiting allowed

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### Proposal 69
#### Bear Baiting/ Unit 21C

- **21C:** Harvest of brown bears at bait stations approved in 2017
  - April 15–June 30
  - 2 open seasons since approval, 2 brown bears harvested over bait

- **21D:** Harvest of brown bears at bait stations approved in 2012
  - April 15–June 30
  - August 1–September 30
  - 3 brown bears harvested over bait

- **24C, 24D:** Harvest of brown bears at bait stations approved in 2014
  - April 15–June 30
  - August 1–September 30
  - 2 brown bears harvested over bait
2012 Approved
Black & Brown Bear Baiting
Spring: 15 April – 30 June
Fall: 1 August – 30 September
2014 Approved
Black & Brown Bear Baiting
Spring: 15 April – 30 June
Fall: 1 August – 30 September

2017 Approved
Black & Brown Bear Baiting
Spring: 15 April – 30 June
Proposal 69

**Bear Baiting/ Unit 21C**

- Harvest is below management objective: 3-year mean harvest of at least 25 bears (50% male) combined for 21BCD
  - Average of 17 bears per year, 63% male harvest
    - 2016-2017: 16 bears (8 males, 8 females)
    - 2017-2018: 18 bears (13 males, 5 females)
    - 2018-2019: 17 bears (11 males, 6 females)
  - Average age 8.5 years
**Proposal 69**

**Bear Baiting/ Unit 21C**

- Unit 21C, currently has low annual brown bear harvest
  - Average of 6 bears per year, 63% male harvest
    - 2016-2017: 3 bears (2 males, 1 females)
    - 2017-2018: 9 bears (6 males, 3 females)
    - 2018-2019: 7 bears (4 males, 3 females)
  - Average age 9.4 years

**Proposal 69**

**Bear Baiting/ Unit 21C**

- Current Black Bear Baiting Seasons in 21C
  - Spring: 15 April – 30 June
  - No conservation concerns if approved for 21C
    - Average of ~6 bear black bear bait sites registered annually (2012–2018).
    - Currently low annual harvest from hunting
Proposal 69
Establish a Fall Bear Baiting Season in Unit 21C from August 1–September 30
Fairbanks AC proposal
Department Position – Support
MYAC – Support
KRAC – Support

Proposal 70
Extend the Season Dates for Brown Bears in Unit 24A
Public proposal
Department Recommendation – Support
KRAC – Oppose
Current brown bear season
10 August–30 June

Current Regulations
- Residents and nonresidents
  - One bear
  - 10 August–30 June
  - Hide and skull salvage required.
  - Sealing required within 30 days of kill

Prop. 70

Proposed Regulations
- Residents and nonresidents
  - One bear
  - 25 July –30 June
  - Hide and skull salvage required.
  - Sealing required within 30 days of kill
Proposed brown bear season
25 July–30 June

Proposal 70
Brown Bear / Unit 24A

- Harvest is below management objectives for Unit 24
Proposal 70

Management objective for the northern portion of the unit (north of Allakaket): 3-year mean harvest of at least 20 bears

Harvest: 3-year mean of 14 bears, 64% male (RY16-RY18)

Proposal 70

Management objective for the southern portion of the unit (south of Allakaket): 3-year mean harvest of at least 15 bears

Harvest: 1 bear, 100% male (RY16-RY18)
Proposal 70

Brown Bear / Unit 24A

- Unit 24A, currently has low annual brown bear harvest
  - Average of ~11 bears per year, 59% male harvest
    - 2016-2017: 15 bears (10 males, 5 female)
    - 2017-2018: 11 bears (5 males, 6 females)
    - 2018-2019: 6 bears (4 males, 2 females)
  - Average age 8.4 years

Proposal 70

Brown Bear / Unit 24A

- Northern Unit 24 estimated population size ~450 bears
- Southern Unit 24 estimated population size 320–480
- Using a 5-6% harvest rate, a minimum annual harvest of 39–56 bears can be sustained for all of Unit 24
- Positive C&T finding for Unit 24
- 25–35 bears ANS for Unit 24 combined with Units 23 and 26
  - Unit 24A could support additional harvest, there is no biological concern
  - Need to proceed with caution due to the accessibility of Unit
Proposal 70
Extend the Season Dates for Brown Bears in Unit 24A

Public proposal

Department Position – Support
KRAC – Oppose

Proposal 71
Establish a Spring Brown Bear Baiting Season in Unit 24A

Public Proposal

Department Recommendation – Support
KRAC – Support
Prop. 71 Brown Bear / Unit 24A

Current Regulations
- Residents and nonresidents
  - One bear
  - 10 August–30 June
  - Hide and skull salvage required.
  - Sealing required within 30 days of kill

Proposed Regulations
- Residents and nonresidents
  - One bear
  - 10 August–30 June
  - Hide and skull salvage required.
  - Sealing required within 30 days of kill
  - Spring baiting (15 April–June 30) allowed
Proposal 71  Brown Bear / Unit 24A

- 21D: Harvest of brown bears at bait stations approved in 2012
  - April 15–June 30
  - August 1–September 30
  - 3 brown bears harvested over bait

- 24C, 24D: Harvest of brown bears at bait stations approved in 2014
  - April 15–June 30
  - August 1–September 30
  - 2 brown bears harvested over bait

- 21C: Harvest of brown bears at bait stations approved in 2017
  - April 15–June 30
  - 2 open seasons since approval, 2 brown bears harvested over bait
2012 Approved
Black & Brown Bear Baiting
Spring: 15 April – 30 June
Fall: 1 August – 30 September

2014 Approved
Black & Brown Bear Baiting
Spring: 15 April – 30 June
Fall: 1 August – 30 September
**2017 Approved**
Black & Brown Bear Baiting
**Spring: 15 April – 30 June**

**2020 Proposed**
Black & Brown Bear Baiting
**Spring: 15 April – 30 June**
**Fall: 1 August – 30 September**
Proposal 71

Brown Bear / Unit 24A

- Unit 24A, currently has low annual brown bear harvest
  - Average of ~11 bears per year, 59% male harvest
    - 2016-2017: 15 bears (10 males, 5 female)
    - 2017-2018: 11 bears (5 males, 6 females)
    - 2018-2019: 6 bears (4 males, 2 females)
  - Average age 8.4 years
## Proposal 71

**Brown Bear / Unit 24A**

- Northern Unit 24 estimated population size ~450 brown bears
- Southern Unit 24 estimated population size 320–480 brown bears
- Using a 5-6% harvest rate, a minimum annual harvest of 39–56 bears can be sustained for all of Unit 24
- Positive C&T finding for Unit 24
- 25–35 bears ANS for Unit 24 combined with Units 23 and 26
  - Unit 24A could support additional harvest, there is no biological concern

### Proposal 71

**Establish a Spring Brown Bear Baiting Season in Unit 24A**

Public Proposal

**Department Position – Support**

KRAC – Support
Proposal 72

Increase the Resident Bag Limit for Brown Bears in Unit 24B

Public Proposal

Department Recommendation – Neutral on allocative aspects, Support expanded opportunity

KRAC – Support
### Proposal 72

**Brown Bear / Unit 24B**

#### Current Regulations
- Residents and nonresidents
  - One bear
  - 10 August–30 June
  - Hide and skull salvage required.
  - Sealing required within 30 days of kill

#### Proposed Regulations
- Residents
  - TWO bears
  - 10 August–30 June
  - Hide and skull salvage required.
  - Sealing required within 30 days of kill
  - Brown bear hides (with claws attached) and skulls may be sold after sealing.

---

**Proposal 72**

- Harvest is below management objectives for Unit 24
Proposal 72

Brown Bear / Unit 24B

- Management objective for the northern portion of the unit (north of Allakaket): 3-year mean harvest of at least 20 bears
- Harvest: 3-year mean of 14 bears, 64% male (RY16-RY18)

Proposal 72

Brown Bear / Unit 24B

- Management objective for the southern portion of the unit (south of Allakaket): 3-year mean harvest of at least 15 bears
- Harvest: 1 bear, 100% male (RY16-RY18)
## Proposal 72
### Brown Bear / Unit 24B

- 51% of the harvest was by residents between RY16–RY18.
- If approved, harvest could increase by up to 5 bears
  - 3 of 35 hunters (all nonresident) in Unit 19A harvested 2 bears
  - 0 of 24 hunters in Unit 19D harvested 2 bears
  - 5 of 99 hunters (all residents) in Unit 20E harvested 2 bears

### Northern Unit 24 estimated population size ~450 bears
### Southern Unit 24 estimated population size 320–480

- Using a 5-6% harvest rate a minimum annual harvest of 39–56 bears can be sustained for all of Unit 24
- Positive C&T finding for Unit 24
- 25–35 bears ANS combined with Units 23 and 26
- No biological concern with brown bear harvest in Unit 24B
Proposal 72

Increase the Resident Bag Limit for Brown Bears in Unit 24B

Public Proposal

Department Recommendation – Neutral on allocative aspects, Support expanded opportunity

KRAC – Support

Proposal 73

Eliminate the RB601 Subsistence Brown Bear Permit for Units 21D and 24

Public Proposal

Department Recommendation – Neutral

KRAC – Support

Ruby AC – Support
Proposal 73 Brown Bear / Units 24 and 21D

- RB601 subsistence brown bear permit is seldom utilized by residents of Units 21D and 24.
  - Only 1 bear harvested from 2009–2018 under this permit
  - 26 bears harvested by residents under general season regulations from 2009–2018
- Opportunity remains under general season regulations
- Confusion about regulation would be eliminated
- However, the regulations will no longer reflect customary and traditional uses recognized by the board.

<table>
<thead>
<tr>
<th>Brown Bear Regulation</th>
<th>Required for General Season</th>
<th>Required for RB601</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealing</td>
<td>Yes</td>
<td>No (unless leaves GMU or Commercial Tanning)</td>
</tr>
<tr>
<td>Hide Salvage</td>
<td>Yes</td>
<td>No (unless sealed)</td>
</tr>
<tr>
<td>Skull Salvage</td>
<td>Yes</td>
<td>No (unless sealed)</td>
</tr>
<tr>
<td>Meat Salvage</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Permit</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Tag Fee</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Trophy Destruction</td>
<td>No</td>
<td>Yes (if leaves GMU or Commercial Tanning)</td>
</tr>
<tr>
<td>Aircraft</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Season</strong></td>
<td>Aug 10–June 30</td>
<td>Aug 10–June 30</td>
</tr>
<tr>
<td><strong>Bag Limit</strong></td>
<td>1 bear per Regulatory Year</td>
<td>1 bear per Regulatory Year</td>
</tr>
</tbody>
</table>
**Proposal 73**

**Brown Bear / Units 24 and 21D**

- Most notable difference is the sealing requirement

<table>
<thead>
<tr>
<th>Brown Bear Regulation</th>
<th>Required for General Hunt</th>
<th>Required for RB601</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealing</td>
<td>Yes</td>
<td>No (unless leaves GMU or Commercial Tanning)</td>
</tr>
<tr>
<td>Hide Salvage</td>
<td>Yes</td>
<td>No (unless sealed)</td>
</tr>
<tr>
<td>Skull Salvage</td>
<td>Yes</td>
<td>No (unless sealed)</td>
</tr>
<tr>
<td>Meat Salvage</td>
<td>No (unless baited)</td>
<td>Yes</td>
</tr>
<tr>
<td>Permit</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Tag Fee</td>
<td>No</td>
<td>No</td>
</tr>
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<td>Trophy Destruction</td>
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<td>No</td>
</tr>
<tr>
<td>Season</td>
<td>Aug 10–June 30</td>
<td>Aug 10–June 30</td>
</tr>
<tr>
<td>Bag limit</td>
<td>1 bear per Regulatory Year</td>
<td>1 bear per Regulatory Year</td>
</tr>
</tbody>
</table>

**Proposal 73**

**Brown Bear/ Unit 24 and 21D**

**General Season Requirements**

- Permit does not have to be obtained in advance
- Meat does not have to be salvaged
- No trophy destruction

**RB601 Requirements**

- Must obtain permit prior to hunting
- Meat salvage requirement
- If the bear harvested under the RB601 permit is removed from the subsistence area, skin of the head and front claws are removed and kept by the Department
### Proposal 73

**Brown Bear/ Units 24 and 21D**

**General Season Requirements**
- Skull and hide sealing requirement

**SAME IN BOTH**
- Bag limit of 1 bear
- Season Date of 10 August – 30 June
- No tag fee

**RB601 Requirements**
- The Department provides broad flexibility to accommodate limited access to sealers in rural communities
- Removing the skull from the field may be contrary to customary and traditional practices

### Subsistence implications

  - 5 AAC 92.012(c) (brown bear tag fee requirement and
  - 5 AAC 92.165 (bear sealing requirement)

- As a result, sealing, salvaging meat, and salvaging hides are distinctions that should be addressed in any proposal and in the public hearing that would be held when considering adoption of a change in regulation.
Proposal 73

Eliminate the RB601 Subsistence Brown Bear Permit for Units 21D and 24

Public Proposal

Department Recommendation – Neutral

KRAC – Support

Ruby AC – Support

Proposal 74  Muskox / Unit 22A, 21D and 24D

Provide a muskox hunting opportunity in Units 22A, 21D and 24D, Feb 1-Apr 30

Middle Yukon Advisory Committee

Department Recommendation: Neutral

Northern Norton Sound AC  Support as Amended (13-0)
Southern Norton Sound AC  Support as Amended (13-0)
Middle Yukon AC  Support
Regulatory History:

- Customary and Traditional Use Determination (C&T)
  - Negative (1995)
  - Positive (1998)
  - “(9) Musk Oxen... Unit 22 and Unit 23 south and west of the Kobuk River Drainage”

- Amount Reasonably Necessary for Subsistence Use’s (ANS)
  - 100-150, including 10-25 in Unit 22E

- A C&T for Units 21D and 24D has not been made
Population Information:

- Source Population
  - Nunivak Island

- Initial Transplant
  - 1970
  - 36 Muskox
  - Feather River

- Supplemental Transplant
  - 1981
  - 35 Muskox
  - Port Clarence
Proposal 74  Muskox / Unit 22A, 21D and 24D


Legend
- Reintroduction Locations
- Minimum Count Survey Area
- Group Observations

Minimum Count: 706

171

Proposal 74  Muskox / Unit 22A, 21D and 24D


Legend
- Reintroduction Locations
- Minimum Count Survey Area
- Group Observations

Minimum Count: 1432

172
Abundance Estimate:
2353 (95% CI: 1908 - 2936)
Harvestable Surplus:
- Harvest Guidelines
- ≤2% of the Population
  OR
- ≤10% of the Mature Bulls

- Estimated Harvestable Surplus
  - 22A, 21D and 24D Combined
    - 9 Bulls
Proposition 74  Muskox / Unit 22A, 21D and 24D

Management Considerations

- Proposed Season Dates: Feb 1-Apr 30
  - Calving: Late April-Mid June
  - Calving Complications
    - Abandonment

- Within 50 miles: 357 muskox
- Within 10 miles: 107 muskox
AC Recommendations

NNSAC
- Support as Amended
- Season Dates:
  - February 1-March 15th
- Discussion
  - Expand the C&T
  - Maintain continuity across GMU boundaries

SNSAC
- Support as Amended
- Season Dates:
  - February 1-March 15th
- Discussion
  - Expand the C&T
  - Maintain continuity across GMU boundaries
**Proposal 74  Muskox / Unit 22A, 21D and 24D**

**AC Recommendations**

5 AAC 99.025 (9) Muskoxen

<table>
<thead>
<tr>
<th>Species &amp; Unit</th>
<th>Finding</th>
<th>Amount Reasonably Necessary for Subsistence Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 22 [AND], Unit 23, that portion south and west of the Kobuk River drainage, Unit 21D, west of the west bank of the Yukon and Koyukuk River and Unit 24D that portion west of the west bank of the Koyukuk River below and including the Dakli River drainage.</td>
<td>Positive</td>
<td>100-150, including 10-25 in Unit 22(E)</td>
</tr>
</tbody>
</table>

Middle Yukon Advisory Committee

**Department Recommendation: Neutral**

- Northern Norton Sound AC: Support as Amended (13-0)
- Southern Norton Sound AC: Support as Amended (13-0)
- Middle Yukon AC: Support
Proposal #76

Establish a Predation Control Plan for the Galena Mountain Caribou Herd

Proponent – Member of the Public
ADF&G – Neutral
MYAC – Support  KRAC – Support

GMH Predation Control – 76-1

Proposal 76 – GMH Predation Control

Management concerns:
• Season CLOSED for GMH since 2004
• Conservation Concern
• Risk of losing the herd

GMH and WMH Caribou IM Objectives

<table>
<thead>
<tr>
<th>Herd</th>
<th>Finding</th>
<th>Population Objective</th>
<th>Harvest Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMH</td>
<td>Negative</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WMH</td>
<td>Negative</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

GMH Predation Control – 76-2
Galena Mountain Herd Minimum Counts
(peak count for each year)

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td># of Caribou</td>
<td>180</td>
<td>190</td>
<td>200</td>
<td>210</td>
<td>220</td>
<td>230</td>
<td>240</td>
<td>250</td>
<td>260</td>
<td>270</td>
<td>280</td>
<td>290</td>
<td>300</td>
<td>310</td>
<td>320</td>
<td>330</td>
<td>340</td>
<td>350</td>
<td>360</td>
<td>370</td>
<td>380</td>
<td>390</td>
<td>400</td>
<td>410</td>
<td>420</td>
<td>430</td>
<td>440</td>
<td>450</td>
<td>460</td>
<td>470</td>
<td>480</td>
<td>490</td>
<td>500</td>
<td>510</td>
<td>520</td>
<td>530</td>
<td>540</td>
<td>550</td>
</tr>
</tbody>
</table>
Wolf Mountain Herd Minimum Counts
(peak count for each year)

# of Caribou

Year


GMH Predation Control – 76-8
Galena Mountain Caribou Herd

Implementation Strategy

- BOG directs ADF&G to assess feasibility
- Caribou/Habitat Data (Phase 1)
- Feasibility Assessment
- Implementation (Phase 2)
- BOG Predation Control Plan
- Implementation (Phase 3)

Experimental approach

- Phase 1 – Pre-treatment assessment (3 yr)
  - Habitat conditions
  - Caribou pop. dynamics
  - Mortality factors
- Phase 2 – Prescribed burn (3 yr)
  - Monitor caribou/habitat response
- Phase 3 – Predator Control (5 yr)
  - Monitor caribou/habitat response
Proposal #76

Establish a Predation Control Plan for the Galena Mountain Caribou Herd

Proponent – Member of the Public

ADF&G – Neutral

MYAC – Support

KRAC – Support

GMH Predation Control – 76-21

Proposal #75

Establish an Intensive Management Predation Control Plan for Units 21D and 24

Proponent – Member of the Public

ADF&G – Neutral

KRAC – Support

Units 21D & 24 Predation Control – 75-1
Proposal #75

Proponent Concerns

- Concern about sustainable moose populations
- Request for ADF&G to complete a feasibility assessment
- Concern about the ability of local subsistence users to meet their needs
- Concern about the high numbers of bears and wolves in Unit 24 and 21D
- Request for liberalized regulations for wolves and bears
- Concern about public safety related to predators
### Proposal 75 – Predation Control in Units 21D and 24

#### Unit 24 and 21D Moose IM Objectives

<table>
<thead>
<tr>
<th>Unit</th>
<th>Population Objective</th>
<th>Moose Population Estimate</th>
<th>Harvest Objective</th>
<th>Avg. Annual Harvest (rept + est. unrept)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24A</td>
<td>1,200–1,500</td>
<td>790±250</td>
<td>75–125</td>
<td>36 (19+16)</td>
</tr>
<tr>
<td>24B</td>
<td>4,000–4,500</td>
<td>3,203±850</td>
<td>150–250</td>
<td>65 (35+30)</td>
</tr>
<tr>
<td>24C</td>
<td>1,000–1,500</td>
<td>562 (±130)</td>
<td>50–125</td>
<td>37 (20+17)</td>
</tr>
<tr>
<td>24D</td>
<td>5,000–6,000</td>
<td>4,380 (±477)</td>
<td>225–425</td>
<td>179 (97+82)</td>
</tr>
<tr>
<td>21D</td>
<td>7,000–10,000</td>
<td>10,478 (±1,572)</td>
<td>450–1,000</td>
<td>412 (287+125)</td>
</tr>
</tbody>
</table>

### Proposal 75 – Predation Control in Units 21D and 24

#### Unit 24 and 21D Caribou IM Objectives

<table>
<thead>
<tr>
<th>Herd</th>
<th>Finding</th>
<th>Population Objective</th>
<th>Harvest Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMH</td>
<td>Negative</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>RMH</td>
<td>Negative</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>WAH</td>
<td>Positive</td>
<td>At least 200,000</td>
<td>12,000 – 20,000</td>
</tr>
</tbody>
</table>
### Proposal 75 – Predation Control in Units 21D and 24

**Unit 24 – Harvestable Surplus**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Prescribed Harvest rate</th>
<th>Avg annual harvest (rept+ est. unrept)</th>
<th>Moose Population Estimate</th>
<th>Can Population Provide for Current level of harvest</th>
<th>Harvestable surplus</th>
</tr>
</thead>
<tbody>
<tr>
<td>24A</td>
<td>5% of observed</td>
<td>35 (19+16)</td>
<td>3,993±1,101</td>
<td>yes</td>
<td>200</td>
</tr>
<tr>
<td>24B</td>
<td>5% of observed</td>
<td>65 (35+30)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24C</td>
<td>5% of observed</td>
<td>37 (20+17)</td>
<td>562±130</td>
<td>yes</td>
<td>28*</td>
</tr>
<tr>
<td>24D</td>
<td>5% of observed</td>
<td>179 (97+82)</td>
<td>4,380±477</td>
<td>yes</td>
<td>219</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>316 (171+145)</td>
<td>8,935±1,708</td>
<td>yes</td>
<td>447</td>
</tr>
<tr>
<td>Combined ANS</td>
<td></td>
<td>170-270</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Units 21D & 24 Predation Control – 75-8**

### Proposal 75 – Predation Control in Units 21D and 24

**Unit 21 – Harvestable Surplus**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Prescribed Harvest rate</th>
<th>Avg annual harvest (rept+ est. unrept)</th>
<th>Moose Population Estimate</th>
<th>Can Population Provide for Current level of harvest</th>
<th>Harvestable surplus</th>
</tr>
</thead>
<tbody>
<tr>
<td>21A</td>
<td>5% of observed</td>
<td>70 (30 + 40)</td>
<td>2,442</td>
<td>yes</td>
<td>120</td>
</tr>
<tr>
<td>21B</td>
<td>5% of observed</td>
<td>101 (76 + 25)</td>
<td>2,317 ±417</td>
<td>yes</td>
<td>95*</td>
</tr>
<tr>
<td>21C</td>
<td>5% of observed</td>
<td>27 (22 + 5)</td>
<td>900-1300 extrapolated est. (0.25-0.35 moose/mi²)</td>
<td>yes</td>
<td>45</td>
</tr>
<tr>
<td>21D</td>
<td>5-7% of observed</td>
<td>412 (287 + 125)</td>
<td>10,478 ±1,572</td>
<td>yes</td>
<td>445</td>
</tr>
<tr>
<td>21E</td>
<td>4% of estimate with scf</td>
<td>210 (180 + 30)</td>
<td>9,777</td>
<td>yes</td>
<td>390</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>820 (595 + 225)</td>
<td></td>
<td></td>
<td>1,095</td>
</tr>
<tr>
<td>Combined ANS</td>
<td></td>
<td>600-800</td>
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</tbody>
</table>

**Units 21D & 24 Predation Control – 75-9**
Middle Yukon/Koyukuk - Reported Moose Harvest
2001-2018

- Local Harvest
- Total Harvest
- Census Data


Units 21D & 24 Predation Control – 75-10

### Proposal #75
#### Summary

- Large area with a variety of population dynamics
- High proportion of Federal Lands, especially Unit 24D
- Unit 21D moose estimate meets IM population objective
- Unit 24 moose estimate below IM population objective
- Local village moose harvest stable
- Several concerns identified have non-specific objectives

Units 21D & 24 Predation Control – 75-11
Proposal #75

Establish an Intensive Management Predation Control Plan for Units 21D and 24

Proponent – Member of the Public
ADF&G – Neutral
KRAC – Support

Units 21D & 24 Predation Control – 75-12