Proposal 31  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

Recommendation: Neutral

<table>
<thead>
<tr>
<th>Northern Norton Sound AC</th>
<th>Support as Amended (13-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Norton Sound AC</td>
<td>Support as Amended (13-0)</td>
</tr>
<tr>
<td>Middle Yukon AC</td>
<td>TBD</td>
</tr>
<tr>
<td>Koyukuk River AC</td>
<td>TBD</td>
</tr>
</tbody>
</table>
Proposal 31  Muskox / Unit 22A, 21D and 24D

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 31  Muskox / Unit 22A, 21D and 24D

Seward Peninsula Muskox Population Survey Results
1970-2017

Minimum Count: 706 Muskox


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

Minimum Count: 706 Muskox
Minimum Count: 1432 Muskox

Minimum Count: 2688 Muskox
Proposal 31  Muskox / Unit 22A, 21D and 24D

Range Wide Population Estimate (Sew Pen All)
2,315 (85% CrI: 1,906 to 2,734)

Legend
Survey Area
- Sew Pen All
- Sew Pen Old
- Sew Pen New

2017 Seward Peninsula Muskox Population Survey
Survey Areas and Population Estimates

Proposal 31  Muskox / Unit 22A, 21D and 24D

Expanded Survey Area (Sew Pen New) Muskox Composition, 2012-2019

- Mature Bulls: 100 Cows
- Shortyearlings: 100 Cows

Mature Bulls 69 69 64 21 48 32 59 28
Shortyearlings 69 69 64 21 48 32 59 28

Yearly Population Counts
Proposal 31  Muskox / Unit 22A, 21D and 24D

Harvestable Surplus:
• Harvest Guidelines
  • ≤2% of the Population
  OR
  • ≤10% of the Mature Bulls

• Estimated Harvestable Surplus
  • 22A, 21D and 24D Combined
    • 9 Bulls

Management Considerations

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

• 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
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>
**Proposal 31  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

Recommendation: Neutral

- **Northern Norton Sound AC:** Support as Amended (13-0)
- **Southern Norton Sound AC:** Support as Amended (13-0)
- **Middle Yukon AC:** TBD
- **Koyukuk River AC:** TBD

**Proposal 30  Muskox / Unit 22**

Allow muskox hunts in Unit 22 to be eligible for hunting by proxy.

Public Proposal

Recommendation: Defer

- **Northern Norton Sound AC:** Support (13 – 0)
- **Southern Norton Sound AC:** Support (5 – 0)
Current Regulations

5 AAC 91.011 Taking of game by proxy.
(a) A resident hunter (the proxy) holding a valid resident hunting license may take specified game for another resident (the beneficiary) who is blind, at least 70% physically disabled, developmentally disabled, or 65 years of age or older, as authorized by AS 16.05.405 and this section.

... (k) Proxy hunting under this section is only allowed for
   (1) caribou;
   (2) deer;
   (3) moose in Tier II hunts, any-bull hunts, and antlerless moose hunts; and
   (4) emperor geese.

Proposed Regulations

5 AAC 91.011 Taking of game by proxy.
(a) A resident hunter (the proxy) holding a valid resident hunting license may take specified game for another resident (the beneficiary) who is blind, at least 70% physically disabled, developmentally disabled, or 65 years of age or older, as authorized by AS 16.05.405 and this section.

... (k) Proxy hunting under this section is only allowed for
   (1) caribou;
   (2) deer;
   (3) moose in Tier II hunts, any-bull hunts, and antlerless moose hunts; and
   (4) emperor geese; AND
   (5) muskoxen in Tier II hunts in Unit 22.
Proposal 30  Muskox / Unit 22

Unit 22 Muskox Tier II Hunt Areas

- Unit 22: 6 Tier II Hunts
  - 22B: TX105
  - 22C: TX095, TX096
  - 22D: TX102, TX103
  - 22E: TX104

Proposal 30  Muskox / Unit 22

Unit 22 Muskox Tier II Information

<table>
<thead>
<tr>
<th>Hunt</th>
<th>Amount Necessary for Subsistence (ANS)</th>
<th>Average Annual Applicants</th>
<th>5-year Average Permits Awarded</th>
<th>Hunter Success Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX095 (22C)</td>
<td>100 - 150, including 10 - 25 in Unit 22(E)</td>
<td>52</td>
<td>4</td>
<td>88%</td>
</tr>
<tr>
<td>TX096 (22C)</td>
<td>100 - 150, including 10 - 25 in Unit 22(E)</td>
<td>63</td>
<td>3</td>
<td>75%</td>
</tr>
<tr>
<td>TX102 (22D)</td>
<td>100 - 150, including 10 - 25 in Unit 22(E)</td>
<td>69</td>
<td>9</td>
<td>59%</td>
</tr>
<tr>
<td>TX103 (22D)</td>
<td>100 - 150, including 10 - 25 in Unit 22(E)</td>
<td>37</td>
<td>1</td>
<td>60%</td>
</tr>
<tr>
<td>TX104 (22E)</td>
<td>100 - 150, including 10 - 25 in Unit 22(E)</td>
<td>28</td>
<td>6</td>
<td>25%</td>
</tr>
<tr>
<td>TX105 (22B)</td>
<td>100 - 150, including 10 - 25 in Unit 22(E)</td>
<td>77</td>
<td>9</td>
<td>38%</td>
</tr>
</tbody>
</table>
**Proposal 30  Muskox / Unit 22**

Allow muskox hunts in Unit 22 to be eligible for hunting by proxy.

Public Proposal

Recommendation: Defer

<table>
<thead>
<tr>
<th>Northern Norton Sound AC</th>
<th>Support (13 – 0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Norton Sound AC</td>
<td>Support (5 – 0)</td>
</tr>
</tbody>
</table>

**Proposal 32  Caribou / Unit 22E**

Modify the hunting season for caribou in Unit 22E to include that portion east of and including the Nuluk River drainage.

Public Proposal

Recommendation: Neutral

<table>
<thead>
<tr>
<th>Northern Norton Sound AC</th>
<th>Oppose (1 – 12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Norton Sound AC</td>
<td>Take no Action</td>
</tr>
</tbody>
</table>
Current Regulations

- 22E, that portion east of and including the Sanaguich River drainage
  - Residents: 5 caribou per day, up to 20 caribou total by registration permit (RC800)
  - Bulls: Jul. 1 – Jun. 30
  - Cows: Jul. 1 – Mar. 31
  - Nonresidents: One bull by harvest ticket (HT)
    - Aug. 1 – Sep. 30
- 22E, remainder
  - May be announced by emergency order

Proposed Expansion

- Proposed expanded area: 1,200 mi²
**Western Arctic Caribou Herd (WACH) Population**

- 2019 estimate: 244,000 caribou
- Stable

![Graph showing the population of Western Arctic Caribou Herd (WACH) from 1969 to 2019.](image)

**Western Arctic Caribou Herd (WACH) Distribution on the Seward Peninsula**

- Established pattern of winter use on Seward Peninsula of at least 40% of the herd from 2012 - 2017
- Medium- to High-density winter WAH caribou distribution extends 20mi west into currently closed hunt area to Ear Mountain
Proposal 32  
Caribou / Unit 22E

**Seward Peninsula Reindeer Grazing Areas**

- 15 permitted reindeer grazing areas,
- Only 4 active herding operations
- Active reindeer herds in western 22E and northwestern 22D

**Proposal 32  
Caribou / Unit 22E**

Modify the hunting season for caribou in Unit 22E to include that portion east of and including the Nuluk River drainage.

Public Proposal

Recommendation: Neutral

- Northern Norton Sound AC  
  Oppose (1 – 12)
- Southern Norton Sound AC  
  Take no Action
Proposal 33  Moose / Unit 22D Rem

Modify hunting seasons and require a registration permit for moose hunting in Unit 22D Remainder

Department Proposal

Recommendation: Support

Northern Norton Sound AC  Support (11-2)
Southern Norton Sound AC  Take No Action

Proposal 33  Moose / Unit 22D Rem

Legend
- Alaska GMU Subunit Boundaries
- GMU 22 Moose Hunting Areas
- RM640 Hunt Area
- Seward Peninsula Road System

36
**Proposal 33**  
**Moose / Unit 22D Rem**

**Current Regulations:**
- 5 AAC 85.045 (20)

<table>
<thead>
<tr>
<th>Units and Bag Limits</th>
<th>Resident Open Season (Subsistence and General Hunts)</th>
<th>Nonresident Open Season</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Remainder of Unit 22(D)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RESIDENT HUNTERS:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 bull moose; only antlered bull moose may be taken from Dec. 1-Jan. 31;</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>NONRESIDENT HUNTERS:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aug. 10-Sept. 14</strong></td>
<td>Oct. 1-Jan. 31</td>
<td>No open season</td>
</tr>
</tbody>
</table>

**Current Regulations:**
- C&T Determination: Unit 22 Moose, Positive
- ANS: Unit 22, 250-300 Moose
- RY2019 Harvestable Surplus: 313 moose
  - Average RY2005-RY2018: 311 moose
### Proposal 33  Moose / Unit 22D Rem

**Proposed Regulations:**

- 5 AAC 85.045 (20)

<table>
<thead>
<tr>
<th>Units and Bag Limits</th>
<th>Resident Open Season (Subsistence and General Hunts)</th>
<th>Nonresident Open Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remainder of Unit 22(D)</td>
<td>Aug. 10-Sept. 14 [Oct.] Dec. 1-Jan. 31 (May be Announced)</td>
<td>No open season</td>
</tr>
</tbody>
</table>

**Resident Hunters:**

1 bull moose by registration permit only; only antlered bull moose may be taken from Dec. 1-Jan. 31;

**Nonresident Hunters:**

No open season

---

### Proposal 33  Moose / Unit 22D Rem

**Effect of the Proposal:**

- Establish a registration permit
  - Improve harvest reporting
  - Allow the department to take management actions in order to maintain harvest at sustainable levels

- Eliminate the Oct. 1-Nov. 30 Season
  - Reduce the overall bull harvest

- Create a “May be Announced” Winter hunt
  - Dec. 1-Jan. 31
Unit 22D Population Information:
- 2018 Unit 22D Spring Recruitment Surveys
  - 977 Moose
  - 11% Recruitment

- 2014 Unit 22D GSPE Survey Results
  - 1106 Moose [95% CI: 1006 – 1205]
  - 14% Recruitment

- Unit 22D Moose Population
  - Stable/Declining
Previous Management Action:

- 2014: Eliminated Antlerless hunts
  - Bag limit during the Dec 1-Dec 31 season was changed to an antlered bull

- 2017: Closed the Non-Resident Season
  - RM855
  - Average Annual Non-Resident Harvest
    - RY2004-RY2016: 6 bulls
Aug. 10 – Sept. 14;
- One bull moose

Oct. 1 – Nov. 30;
- One bull moose

Dec. 1 – Jan. 31;
- One antlered bull moose

Household Subsistence Surveys
Results: 2000-2015

- Brevig Mission: Avg 18 Moose
- Teller: Avg 8 Moose

Average Annual Reported Harvest:
- RY2009-RY2018: 24 Moose
Proposal 33  Moose / Unit 22D Rem

Reported hunter participation:
Unit 22D Remainder, RY2000-RY2018

Since the start of RM840 in RY2004 the reported number of resident hunters in 22D Remainder has nearly tripled.

Proposal 33  Moose / Unit 22D Rem

Reported transport into the field:
Resident Hunters, Unit 22D Remainder, RY2000-RY2018

Then...

Now...
Hunt Administration:
- Expand RM840
  - Include Unit 22D Remainder
  - Harvest Quota: 18 bulls
  - 3 day reporting requirement
- Permit Availability
  - Online
  - License vendors in Nome, White Mountain, Golovin, Brevig Mission and Teller
- “May be Announced” Winter hunt
  - RM849

Modify hunting seasons and require a registration permit for moose hunting in Unit 22D Remainder

Department Proposal
Recommendation: Support
Proposal 34  Moose / Unit 22D Rem

Create a Non-resident draw permit for moose in Unit 22D Remainder

Public Proposal

Recommendation: Neutral

Northern Norton Sound AC: Oppose (0-13)
Southern Norton Sound AC: Take No Action

Proposal 34  Moose / Unit 22D Rem

Legend:
- Unit 22 Non-resident Hunt Areas
- Unit 22D Remainder
- Seward Peninsula Road System
### Proposal 34  Moose / Unit 22D Rem

#### Current Regulations:
- 5 AAC 85.045 (20)

<table>
<thead>
<tr>
<th>Units and Bag Limits</th>
<th>Resident Open Season (Subsistence and General Hunts)</th>
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<td>Oct. 1-Jan. 31</td>
</tr>
<tr>
<td><strong>NONRESIDENT HUNTERS:</strong></td>
<td></td>
<td>No open season</td>
</tr>
</tbody>
</table>

#### Proposed Regulations:
- 5 AAC 85.045 (20)

<table>
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<tr>
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<td>Aug. 10-Sept. 14</td>
<td>Oct. 1-Jan. 31</td>
</tr>
<tr>
<td><strong>NONRESIDENT HUNTERS:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 bull with 50-inch antlers of antlers with 4 or more brow tines on one side, by drawing permit only; up to 8 permits may be issued</td>
<td></td>
<td>[No Open Season]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sept 1-Sept 14</td>
</tr>
</tbody>
</table>
Proposal 34  Moose / Unit 22D Rem

Unit 22D Population Information:

- 2018 Unit 22D Spring Recruitment Surveys
  - 977 Moose
  - 11% Recruitment

- 2014 Unit 22D GSPE Survey Results
  - 1106 Moose [95% CI: 1006 – 1205]
  - 14% Recruitment

- Unit 22D Moose Population
  - Stable/Declining
Previous Management Action:

- 2014: Eliminated Antlerless hunts
  - Bag limit during the Dec 1-Dec 31 season was changed to an antlered bull

- 2017: Closed the Non-Resident Season
  - RM855
  - Average Annual Non-Resident Harvest
    - RY2004-RY2016: 6 bulls
**Average Annual Reported Harvest:**

RY2009-RY2018: 24 Moose

**Household Subsistence Survey Results:**

- Brevig Mission: Avg 18 Moose
- Teller: Avg 8 Moose

---

**Reported hunter participation:**

Unit 22D Remainder, RY2000-RY2018

Since the start of RM840 in RY2004 the reported number of resident hunters in 22D Remainder has nearly tripled
### Proposal 34  Moose / Unit 22D Rem

Create a Non-resident draw permit for moose in Unit 22D Remainder

Public Proposal

Recommendation: Neutral

<table>
<thead>
<tr>
<th>Northern Norton Sound AC</th>
<th>Southern Norton Sound AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oppose (0-13)</td>
<td>Take No Action</td>
</tr>
</tbody>
</table>

### Proposal 35  Moose / Unit 22

Limit the availability of Unit 22 Moose Registration permits

Public Proposal

Recommendation: Neutral

<table>
<thead>
<tr>
<th>Northern Norton Sound AC</th>
<th>Southern Norton Sound AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support As Amended (13-0)</td>
<td>Support As Amended (5-0)</td>
</tr>
</tbody>
</table>
Current Regulations:

5 AAC 92.050 Required permit hunt conditions and procedures

(4) Permit issuance:

(B) A successful applicant shall obtain the permit within the time specified by the department in a notification
Proposal 35
Moose / Unit 22

Effect of the Proposal:

Limit the availability of Unit 22 Moose Registration permits

Option 1

• ALL Unit 22 registration moose hunts
• At license vendors within Unit 22
• July 15-July 31
• No On-line issuance
• Not including Non-Resident registration moose hunts

Option 2

• ONLY registration moose hunt, RM840
• 22D Remainder (Proposal 33)
• At license vendors within Unit 22
• July 15-July 31
• No On-line issuance

AC Recommendations

NNSAC

• Support as Amended
• Option 2 Only
  • Limit permit availability for registration permit hunts in Unit 22B West, 22C, and 22D
  • Permits available at license vendors within Unit 22 June 1-July 15

SNSAC

• Support as Amended
• Option 2 Only
Proposal 35  

Effect of the Proposal: Option 1

- Registration Permits Affected
  - RM843
  - RM849
  - RM841
  - RM844

- Limiting permit availability as outlined in the proposal may be unnecessarily restrictive or in conflict with current hunt administration in some instances.

Proposal 35  

- RM840 (RY2014-RY2018)
  - Alaska Residents
  - Non-Residents: 22C
  - Season: Sept 1-Sept 14
  - Permit Availability
    - Online
    - Vendors in Nome, Teller, White Mountain and Golovin
  - July 24-Sept 14
### Proposal 35

**Moose / Unit 22**

#### RM840, RY2014-RY2018

**RM840 Hunt Participation by Residency, RY2014-RY2018**

<table>
<thead>
<tr>
<th>Year</th>
<th>Non-Local Residents</th>
<th>Local Residents</th>
<th>Non-residents</th>
<th>Unknown</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>33 (9%)</td>
<td>348 (91%)</td>
<td>1 (&lt;1%)</td>
<td>0 (0%)</td>
<td>382</td>
</tr>
<tr>
<td>2015</td>
<td>48 (13%)</td>
<td>322 (84%)</td>
<td>1 (&lt;1%)</td>
<td>11 (3%)</td>
<td>382</td>
</tr>
<tr>
<td>2016</td>
<td>36 (10%)</td>
<td>310 (89%)</td>
<td>0 (0%)</td>
<td>1 (&lt;1%)</td>
<td>347</td>
</tr>
<tr>
<td>2017</td>
<td>47 (13%)</td>
<td>324 (87%)</td>
<td>0 (0%)</td>
<td>0 (0%)</td>
<td>371</td>
</tr>
<tr>
<td>2018</td>
<td>43 (11%)</td>
<td>344 (87%)</td>
<td>4 (1%)</td>
<td>5 (1%)</td>
<td>396</td>
</tr>
<tr>
<td>Average:</td>
<td>41 (11%)</td>
<td>330 (88%)</td>
<td>1 (&lt;1%)</td>
<td>(&lt;1%)</td>
<td>376</td>
</tr>
</tbody>
</table>

**RM840 Harvest by Residency, RY2014-RY2018**

<table>
<thead>
<tr>
<th>Year</th>
<th>Non-Local Residents</th>
<th>Local Residents</th>
<th>Non-residents</th>
<th>Unknown</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>12 (17%)</td>
<td>59 (83%)</td>
<td>0 (0%)</td>
<td>0 (0%)</td>
<td>71</td>
</tr>
<tr>
<td>2015</td>
<td>18 (22%)</td>
<td>64 (77%)</td>
<td>1 (1%)</td>
<td>0 (0%)</td>
<td>83</td>
</tr>
<tr>
<td>2016</td>
<td>8 (10%)</td>
<td>73 (90%)</td>
<td>0 (0%)</td>
<td>0 (0%)</td>
<td>81</td>
</tr>
<tr>
<td>2017</td>
<td>13 (17%)</td>
<td>63 (83%)</td>
<td>0 (0%)</td>
<td>0 (0%)</td>
<td>76</td>
</tr>
<tr>
<td>2018</td>
<td>11 (17%)</td>
<td>52 (80%)</td>
<td>1 (2%)</td>
<td>1 (2%)</td>
<td>65</td>
</tr>
<tr>
<td>Average:</td>
<td>12 (17%)</td>
<td>62 (83%)</td>
<td>&lt;1 (&lt;1%)</td>
<td>&lt;1 (&lt;1%)</td>
<td>75</td>
</tr>
</tbody>
</table>

  - Non-Local Residents: 29%
  - Local Residents: 19%
### Proposal 35

#### Moose / Unit 22

#### RM840, RY2014-RY2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Quota</th>
<th>Harvest</th>
<th>EO Closure</th>
<th>Season Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>20</td>
<td>20</td>
<td>Yes</td>
<td>8 days</td>
</tr>
<tr>
<td>2015</td>
<td>20</td>
<td>22</td>
<td>Yes</td>
<td>6 days</td>
</tr>
<tr>
<td>2016</td>
<td>23</td>
<td>24</td>
<td>Yes</td>
<td>9 days</td>
</tr>
<tr>
<td>2017</td>
<td>23</td>
<td>25</td>
<td>Yes</td>
<td>7 days</td>
</tr>
<tr>
<td>2018</td>
<td>23</td>
<td>21</td>
<td>Yes</td>
<td>6 days</td>
</tr>
</tbody>
</table>

#### 22C

<table>
<thead>
<tr>
<th>Year</th>
<th>Quota</th>
<th>Harvest</th>
<th>EO Closure</th>
<th>Season Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>9</td>
<td>10</td>
<td>Yes</td>
<td>2 days</td>
</tr>
<tr>
<td>2015</td>
<td>9</td>
<td>15</td>
<td>Yes</td>
<td>2 days</td>
</tr>
<tr>
<td>2016</td>
<td>11</td>
<td>17</td>
<td>Yes</td>
<td>2 days</td>
</tr>
<tr>
<td>2017</td>
<td>11</td>
<td>15</td>
<td>Yes</td>
<td>2 days</td>
</tr>
<tr>
<td>2018</td>
<td>16</td>
<td>15</td>
<td>Yes</td>
<td>2 days</td>
</tr>
</tbody>
</table>

#### 22D Southwest and 22D Kuzitrin

<table>
<thead>
<tr>
<th>Year</th>
<th>Quota</th>
<th>Harvest</th>
<th>EO Closure</th>
<th>Season Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>37</td>
<td>41</td>
<td>Yes</td>
<td>8 days</td>
</tr>
<tr>
<td>2015</td>
<td>37</td>
<td>46</td>
<td>Yes</td>
<td>10 days</td>
</tr>
<tr>
<td>2016</td>
<td>30</td>
<td>39</td>
<td>No</td>
<td>14 days</td>
</tr>
<tr>
<td>2017</td>
<td>22</td>
<td>36</td>
<td>Yes</td>
<td>5 days</td>
</tr>
<tr>
<td>2018</td>
<td>22</td>
<td>29</td>
<td>Yes</td>
<td>3 days</td>
</tr>
</tbody>
</table>

#### ADF&G Alternative:

- Limiting the availability of Unit 22 Moose Registration permits
  - Available in person at vendors in Unit 22 July 15-July 31
  - No On-line issuance
- Dramatic shift in RM840 permit availability
  - May be unnecessarily restrictive
- Department Recommended Alternative
  - Small incremental restriction of RM840 permit availability
    - No Online Issuance
    - Available only at vendors in Unit 22 July 25-August 25
Proposal 35  Moose / Unit 22

ADF&G Alternative:
- No Online Issuance

<table>
<thead>
<tr>
<th></th>
<th># of Permits</th>
<th>In Person</th>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Residents</td>
<td>1648</td>
<td>93%</td>
<td>7%</td>
</tr>
<tr>
<td>Non-Local Residents</td>
<td>206</td>
<td>65%</td>
<td>35%</td>
</tr>
<tr>
<td>Non-Resident</td>
<td>6</td>
<td>67%</td>
<td>33%</td>
</tr>
</tbody>
</table>
## Proposal 35
**Moose / Unit 22**

Limit the availability of Unit 22
Moose Registration permits

Public Proposal

Recommendation: Neutral

<table>
<thead>
<tr>
<th>Northern Norton Sound AC</th>
<th>Support As Amended (13-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Norton Sound AC</td>
<td>Support As Amended (5-0)</td>
</tr>
</tbody>
</table>

### Northern Norton Sound AC
- Support As Amended (13-0)

### Southern Norton Sound AC
- Support As Amended (5-0)

---

## Proposal 36
**Moose / Unit 22**

Limit the availability of Unit 22
Moose Registration permits

Public Proposal

Recommendation: Neutral

<table>
<thead>
<tr>
<th>Northern Norton Sound AC</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Southern Norton Sound AC</td>
<td>Take No Action</td>
</tr>
</tbody>
</table>

### Northern Norton Sound AC
- Take No Action

### Southern Norton Sound AC
- Take No Action

---
Current Regulations:

5 AAC 92.050 Required permit hunt conditions and procedures

(4) Permit issuance:

(B) A successful applicant shall obtain the permit within the time specified by the department in a notification
### Proposal 36  Moose / Unit 22

**Effect of the Proposal:**

- This proposal seeks to limit the availability of all moose registration permits administered in Unit 22
  - Permits would only be available at license vendors in Unit 22 July 15-July 31
  - Permits would no longer be available online

### Proposal 36  Moose / Unit 22

**Effect of the Proposal:**

- Registration Permits Affected
  - RM840
  - RM843
  - RM849
  - RM841
  - RM844
  - RM855

- Limiting permit availability as outlined in the proposal may be unnecessarily restrictive or in conflict with current hunt administration in some instances.
### Proposal 36  
**Moose / Unit 22**

**Limit the availability of Unit 22 Moose Registration permits**

Public Proposal

**Recommendation: Neutral**

<table>
<thead>
<tr>
<th>Northern Norton Sound AC</th>
<th>Southern Norton Sound AC</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Take No Action</td>
<td>Take No Action</td>
<td>81</td>
</tr>
</tbody>
</table>

### Proposal 37  
**Moose / Unit 22C**

**Eliminate the non-resident season for moose in Unit 22C**

Public Proposal

**Recommendation: Neutral**

<table>
<thead>
<tr>
<th>Northern Norton Sound AC</th>
<th>Southern Norton Sound AC</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Support (13-0)</td>
<td>Take No Action</td>
<td>82</td>
</tr>
</tbody>
</table>
**Units and Bag Limits**

**Resident Open Season (Subsistence and General Hunts)**

- **Unit 22(C)**
  - Resident Hunters:
    - 1 bull moose by registration permit only; or
    - 1 antlered bull by registration permit only; during the period Jan. 1-Jan. 31 a season may be announced by emergency order.

- **Nonresident Open Season**
  - September 1-September 14
  - January 1-January 31
  - (To be announced)

**Current Regulations**

5 AAC 85.045 (20)

**Units and Bag Limits**

- **Unit 22(C)**
  - Resident Hunters: 1 bull with 50-inch antlers or antlers with 4 or more brow tines on one side, by registration permit only
  - Nonresident Hunters: September 1-September 14
### Proposed Regulations

5 AAC 85.045 (20)

<table>
<thead>
<tr>
<th>Units and Bag Limits</th>
<th>Resident Open Season (Subsistence and General Hunts)</th>
<th>Nonresident Open Season</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit 22(C)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RESIDENT HUNTERS:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 bull moose by registration permit only; or</td>
<td>Sept. 1-Sept. 14</td>
<td></td>
</tr>
<tr>
<td>1 antlered bull by registration permit only; during the period Jan. 1-Jan. 31 a season may be announced by emergency order</td>
<td>Jan. 1-Jan. 31 (To be announced)</td>
<td></td>
</tr>
<tr>
<td><strong>NONRESIDENT HUNTERS:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[1 bull with 50-inch antlers or antlers with 4 or more brow tines on one side, by registration permit only]</td>
<td>[Sept. 1-Sept. 14]</td>
<td>No Open Season</td>
</tr>
</tbody>
</table>

---

**GMU 22C Moose Population Survey Results 1995-2016**

![Graph showing population survey results for GMU 22C Moose from 1995 to 2016](image.png)
Proposal 37  Moose / Unit 22C

Unit 22C, RM840 2014-2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Quota</th>
<th>Harvest</th>
<th>EO Closure</th>
<th>Season Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>9</td>
<td>10</td>
<td>Yes</td>
<td>2 days</td>
</tr>
<tr>
<td>2015</td>
<td>9</td>
<td>15</td>
<td>Yes</td>
<td>2 days</td>
</tr>
<tr>
<td>2016</td>
<td>11</td>
<td>17</td>
<td>Yes</td>
<td>2 days</td>
</tr>
<tr>
<td>2017</td>
<td>11</td>
<td>15</td>
<td>Yes</td>
<td>2 days</td>
</tr>
<tr>
<td>2018</td>
<td>16</td>
<td>15</td>
<td>Yes</td>
<td>2 days</td>
</tr>
</tbody>
</table>

- Average Annual Harvest: 15 moose
- Nonresident Participation
  - 6 Permit Holders RY2014-RY2018
- Nonresident Harvest
  - 2 Moose RY2014-RY2018
### Proposal 37  
**Moose / Unit 22C**

**Eliminate the non-resident season for moose in Unit 22C**

**Public Proposal**

**Recommendation: Neutral**

<table>
<thead>
<tr>
<th>AC</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Norton Sound AC</td>
<td>Support (13-0)</td>
</tr>
<tr>
<td>Southern Norton Sound AC</td>
<td>Take No Action</td>
</tr>
</tbody>
</table>

89

### Proposal 38  
**Moose / Unit 22A**

**Extend the Unit 22A Central resident fall RM841 and winter RM844 moose season and change the fall bag limit to “one bull”**.

**Department Proposal**

**Recommendation: Support season extension  
Neutral fall bag limit change**

<table>
<thead>
<tr>
<th>AC</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Norton Sound AC</td>
<td>Take No Action</td>
</tr>
<tr>
<td>Southern Norton Sound AC</td>
<td>Support as Amended (5 – 0)</td>
</tr>
</tbody>
</table>

90
Proposition 38

Moose / Unit 22A

Current Regulations

- Residents: Registration Hunt
  - RM841 (Fall)
    - Sep. 1 – Sep. 20
    - 1 Antlered Bull
  - RM844 (Winter)
    - Season may be Announced
    - Dec. 1 – Dec. 31
    - 1 Antlered Bull
  - Permits available online or at license vendors in Unalakleet

- Nonresidents
  - No Open Season

22A Central Federal Hunt

- Shared quota between federal and state permits

- Season:
  - Aug. 15 – Sep. 14
  - 1 Bull by Federal registration permit (FM2201)

- Federal public lands:
  - Open to Unalakleet residents only
Proposal 38  Moose / Unit 22A

Proposed Regulations

- Residents: Registration Hunt
  - RM841 (Fall)
    - Sep. 1 – [Sep. 20]  **Sep. 30**
    - 1 [Antlered] Bull
  - RM844 (Winter)
    - Season may be Announced
    - Dec. 1 – [Dec. 31]  **Jan. 31**
    - 1 Antlered Bull

Unit 22A Central Moose Population

- 2017 estimate: 840 moose
- 9% annual rate of increase between 2012 – 2017
- 2016 composition results: 123 Bulls: 100 Cows

[Graph showing Unit 22A (Unalakleet Survey Area) Moose Population Survey Results from 1989-2017]
Proposal 38

Moose / Unit 22A

RM841/RM844 Harvest

- RM841 (Fall)
  - RY14 – RY18: Average 74 hunters
  - 5-year average harvest: 24 moose
  - 5-year average hunter success rate 32%

- RM844 (Winter)
  - RY2012: 0 hunters
  - RY2017: 7 hunters, 0% success

RM841/RM844 Season Extensions

- Fall Season Extension (RM841)
  - Requested and authorized RY2011-RY2015 and RY2018

- Winter Season (RM844)
  - Opened RY2012 and RY2017, extended to Jan 31 in RY2017

<table>
<thead>
<tr>
<th>RY</th>
<th>Quota</th>
<th>Harvest</th>
<th>Season</th>
<th>RM844</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>14</td>
<td>15</td>
<td>Sept 1-14</td>
<td></td>
</tr>
<tr>
<td>2009</td>
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<td>15</td>
<td>Sept 1-14</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>14</td>
<td>14</td>
<td>Sept 1-13</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>14</td>
<td>16</td>
<td>Sept 1-17</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>22</td>
<td>16</td>
<td>Sept 1-20</td>
<td></td>
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<tr>
<td>2013</td>
<td>22</td>
<td>21</td>
<td>Sept 1-20</td>
<td></td>
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<tr>
<td>2014</td>
<td>22</td>
<td>21</td>
<td>Sept 1-20</td>
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<td>2015</td>
<td>22</td>
<td>24</td>
<td>Sept 1-17</td>
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<td>2016</td>
<td>22</td>
<td>25</td>
<td>Sept 1-9</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>34</td>
<td>34</td>
<td>Sept 1-20</td>
<td>Dec 1-Jan 31</td>
</tr>
<tr>
<td>2018</td>
<td>34</td>
<td>34</td>
<td>Sept 1-30</td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>34</td>
<td>32</td>
<td>Sept 1-20</td>
<td></td>
</tr>
</tbody>
</table>
Proposal 38  Moose / Unit 22A

SSNAC Requested Amendment

- 22A North:
  - Unit 22A, that portion north of [and including the Tagoomenik and Shaktoolik River] the Egavik Creek drainage

- Requested by the Village of Shaktoolik, supported unanimously by SNSAC

Summary

- RM841 (Fall)
  - 10-day season extension
  - Bag limit change to “One Bull”

- RM844 (Winter)
  - 31-day season extension

- Department would maintain emergency order authority if quota is reached earlier than proposed closing date
Proposal 38  Moose / Unit 22A

Extend the Unit 22A Central resident fall RM841 and winter RM844 moose season and change the fall bag limit to “one bull”.

Recommendation: Support season extension
Neutral fall bag limit change

Department Proposal

Northern Norton Sound AC  Take No Action
Southern Norton Sound AC  Support as Amended (5 – 0)

Proposal 40  Brown Bear/ Unit 22C

Create a brown bear registration permit hunt for residents in Unit 22C

Department Proposal

Recommendation: Support

Northern Norton Sound AC  Opposed (2-11)
Southern Norton Sound AC  Take No Action
Resident Open Season
(Subsistence and General Hunts)

Unit 22(C)

RESIDENT HUNTERS:
One bear every regulatory; or
One Bear every regulatory year by subsistence permit (RB699)

Nonresident Open Season

Aug. 1-Oct 31
Apr. 1-May 31
Aug. 1-Oct 31
Apr. 1-May 31
**Proposal 40**

**Brown Bear/ Unit 22C**

**Regulatory History:**
- **RY1997-RY2011**
  - 1 bear every four regulatory years
  - Fall Season: Aug. 1-Oct. 31
  - Spring Season: May 10-May 31
- **RY2012**
  - Spring Season: May 1-May 31
- **RY2014**
  - 1 bear every regulatory years
- **RY2017**
  - Spring Season: April 1-May 31

![Chart showing Unit 22 Reported Brown Bear Harvest RY1998-RY2018](chart.png)
Proposed Regulations:

• 5 AAC 85.020 (20)

### Units and Bag Limits

<table>
<thead>
<tr>
<th>Unit 22(C)</th>
<th>Resident Open Season (Subsistence and General Hunts)</th>
<th>Nonresident Open Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>One bear every regulatory by registration permit; or</td>
<td>Apr. 1-May 31</td>
<td>Apr. 1-May 31</td>
</tr>
<tr>
<td>One Bear every regulatory year by subsistence permit (RB699)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Proposal 40  
**Brown Bear/ Unit 22C**

#### Effect of the Proposal:
- Maintain the current level of hunting opportunity
  - Spring hunting opportunity
- Improve hunt monitoring
  - Participation
  - Effort
  - Success Rates
- Provide to tools to maintain harvest at historic levels
  - Average Annual Harvest RY2012-RY2018
    - 25 Bears per year
    - 25 bears/year harvest limit

#### Management Considerations:
- Muskox Conflicts
  - Maintain harvest at or below 25 bears/year
  - Evaluate possible mitigating effects of bear harvests
- Wildlife Viewing
  - Reports from the public
    - High level of harvest in RY2017
    - Fewer bears visible on the landscape
    - Expressed a desire to place limits on overall harvest
  - Allow for non-consumptive uses
Proposal 40  Brown Bear/ Unit 22C

Management Considerations

Muskox Conflict Mitigation

Wildlife Viewing

Create a brown bear registration permit hunt for residents in Unit 22C

Department Proposal

Recommendation: Support

Northern Norton Sound AC  Opposed (2-11)
Southern Norton Sound AC  Take No Action
Proposal 41  Brown Bears / Unit 22BC

Add 15 days to the nonresident DB685 and 30 days to the resident spring brown bear hunt in Units 22B and 22C.

Public Proposal

Recommendation: Neutral

Northern Norton Sound AC  Oppose (0 – 13)
Southern Norton Sound AC  Support (5 – 0)

Proposal 41  Brown Bears / Unit 22BC

Current Regulations: 22B

Season and Bag Limit

- August 1 – May 31
- Residents: 2 bears every regulatory year
- Residents (subsistence): 2 bears every regulatory year by registration permit (RB699)
- Nonresidents: 1 bear every regulatory year by drawing permit (DB685)

Some road access
- Access by snowmachine, 4-wheeler, boat, airplane, highway vehicle
Proposal 41

Brown Bears / Unit 22BC

**Current Regulations: 22C**

- **Residents:**
  - Aug 1 – Oct 31 (Fall)
  - Apr 1 – May 31 (Spring)
  - Bag limit: 1 bear every regulatory year
  - Bag limit (subsistence): 1 bear every regulatory year by registration permit (RB699)
- **Nonresidents:**
  - Aug 1 – Oct 31 (Fall)
  - Apr 1 – May 31 (Spring)
  - 1 bear every regulatory year by drawing permit (DB685)

- Road access
- Access by highway vehicle, snowmachine, 4-wheeler

---

Proposal 41

Brown Bears / Unit 22BC

**Proposed Regulations: 22B**

**Residents:**
- Season: August 1 – [May 31] June 30
- Proposed season dates would resemble some of the most liberal brown bear hunting seasons in the state

**Nonresidents:**
- Season: August 1 – [May 31] June 15
**Proposal 41**

**Brown Bears / Unit 22BC**

**Proposed Regulations: 22C**

**Residents:**
- Fall: Aug 1 – Oct 31
- Spring: Apr 1 – [May 31] **June 30**

**Nonresidents:**
- Fall: Aug 1 – Oct 31
- Spring: Apr 1 – [May 31] **June 15**
  - Road access
  - Access by highway vehicle, snowmachine, 4-wheeler

**Unit 22B Brown Bear Harvest**
- Average 5-year annual 22B harvest: 28 bears
- 2 bears/yr bag limit has been in effect for 2 years
  - 6 hunters RY17
  - 4 hunters RY18

**Unit 22B Reported Brown Bear Harvest**
- Spring
- Fall
- DLP

2017: Board liberalized 22B bag limit
2 bears/RY
Proposal 41

Unit 22C Brown Bear Harvest

- Average annual 22C harvest since RY98: 18 bears
- 5-year average 22C harvest: 28 bears
- Spring season extension has been in effect for two years

![Graph showing reported brown bear harvest from 2000 to 2018](image)

- RY17 spring season extension in 22C
  - RY17: 17 bears harvested in April (59% of total spring harvest)
  - RY18: 6 bears harvested in April (67%)

![Graph showing 22C brown bear spring harvest chronology](image)
### Proposal 41  
**Brown Bears / Unit 22BC**

Add 15 days to the nonresident DB685 and 30 days to the resident spring brown bear hunt in Units 22B and 22C.

Public Proposal

Recommendation: Neutral

- **Northern Norton Sound AC**: Oppose (0 – 13)
- **Southern Norton Sound AC**: Support (5 – 0)

### Proposal 39  
**Brown Bears / Unit 22DE**

Add 15 days to the resident and nonresident spring brown bear hunt and raise the resident bag limit to 2 bears per regulatory year in Units 22D and 22E.

Recommendation: Neutral

Public Proposal

- **Northern Norton Sound AC**: Support as Amended (13 – 0)
- **Southern Norton Sound AC**: Take No Action
Proposal 39  Brown Bears / Unit 22DE

Current Regulations:  

22D

Season and Bag Limit

- August 1 – May 31
- Residents: 1 bear every regulatory year
- Residents (subsistence): 1 bear every regulatory year by registration permit (RB699)
- Nonresidents: 1 bear every regulatory year by drawing permit (DB690)

Some road access

Access by snowmachine, highway vehicle, 4-wheeler, boat, or ORV

Proposal 39  Brown Bears / Unit 22DE

Current Regulations:  

22E

Season and Bag Limit

- August 1 – May 31
- Residents: 1 bear every regulatory year
- Residents (subsistence): 1 bear every regulatory year by registration permit (RB699)
- Nonresidents: 1 bear every regulatory year by drawing permit (DB690)

No road access

70 – 100 miles from Nome

Access mostly by snowmachine
Proposed Regulations: 22D and 22E

- **Season**
  - Aug 1 – [May 31] **Jun 15**

- **Resident Bag Limit**
  - [1 bear] **2 bears** every regulatory year
  - [1 bear] **2 bears** every regulatory year by subsistence permit (RB699)

Unit 22D Brown Bear Harvest

- Average annual 22D harvest RY00 – RY18: 17 bears
  - 5-year average: 14 bears annually
  - 13% of 5-year Unit 22 brown bear harvest
Proposal 39  Brown Bears / Unit 22DE

Unit 22E Brown Bear Harvest

- Average annual 22E harvest since RY98: 5 bears
- 5-year average: 7% of the overall Unit 22 brown bear harvest

Unit 22E Reported Brown Bear Harvest
RY2000 - RY2018

Proposal 39  Brown Bears / Unit 22DE

Unit 22D/E Harvest Chronology

- 22D
  - Fall: 47%
  - Spring: 53%

- 22E
  - Fall: 22%
  - Spring: 78%
Proposal 39  Brown Bears / Unit 22DE

Unit 22 Brown Bear Management Objectives

- Objective: 3-year average harvest composition > 50% Boars

Unit 22 Brown Bear 3-Year Mean of % Males Harvested
RY1990-RY2018

Proposal 39  Brown Bears / Unit 22DE

Unit 22: 2 Brown Bears/RY Bag Limit

- 22A
  - Adopted by the Board beginning RY06
  - 18 hunters utilized 2 bear/RY bag limit
    - Range 0 – 6 annually

- 22B
  - Adopted by the Board beginning RY17
  - 10 hunters utilized 2 bear/RY bag limit
    - 6 hunters in RY17
    - 4 hunters in RY18
### Proposal 39  
**Brown Bears / Unit 22DE**

#### Advisory Committee Amendments

- NNSAC (Supports 13-0 as amended)
  - Supports increased bag limit only
  - June season poses concerns of brown bear hide quality
- SNSAC
  - Take no action

---

### Proposal 39  
**Brown Bears / Unit 22DE**

Add 15 days to the resident and nonresident spring brown bear hunt and raise the resident bag limit to 2 bears per regulatory year in Units 22D and 22E.

Public Proposal

Recommendation: Neutral

- **Northern Norton Sound AC**  
  Support as Amended (13 – 0)
- **Southern Norton Sound AC**  
  Take No Action
Proposal 42  Brown Bears / Unit 22

Allow hunters to use a snowmachine to position brown bears for harvest in Unit 22.

Public Proposal

Recommendation: Neutral

Northern Norton Sound AC  Oppose (0 – 13)
Southern Norton Sound AC  Oppose (0 – 5)

Current Regulations:

- 5 AAC 92.080 (4) Unlawful methods of taking game; exceptions.
  - In Unit 22, a snowmachine may be used to position a caribou, wolf, or wolverine for harvest, and caribou, wolves, or wolverines may be shot from a stationary snowmachine.
  - In bear control implementation areas, a snowmachine may be used to select an individual bear for harvest, and bears may be shot from a stationary snowmachine.
  - Throughout the state, no regulation exists that permits hunters to use a snowmachine to position a bear for harvest.
Proposal 42  
Brown Bears / Unit 22

Proposed Regulations:

- 5 AAC 92.080 (4) Unlawful methods of taking game; exceptions.
  - In Unit 22, a snowmachine may be used to position a brown bear, caribou, wolf, or wolverine for harvest, and brown bears, caribou, wolves, or wolverines may be shot from a stationary snowmachine.

Unit 22 Snowmachine Use

- Unit 22 Brown Bear Hunters: Average 32% hunted by snowmachine during RY2000-RY2018
  - Resident Brown Bear Hunters: 38%
  - Nonresident Brown Bear Hunters: 28%
Proposal 42  Brown Bears / Unit 22

Allow hunters to use a snowmachine to position brown bears for harvest in Unit 22.

Public Proposal

Recommendation: Neutral

Northern Norton Sound AC  Oppose (0 – 13)
Southern Norton Sound AC  Oppose (0 – 5)