

RC 113

To: Alaska Board Fish and Game

From: John H Ohmann

Box 874545

Wasilla, Ak 99687

Re: Changes in regulations regarding llamas as pack animals during hunting

Dear Sirs:

Having recently learned of the proposed changes,

I felt the need to write to you, as I find this very discouraging news. I have been a non-commercial packer with a llama train for over twenty years.

The number of llamas in Alaska are minimal, especially those that travel to the back country. What threat do they actually pose? They have less of an environmental impact than horses.

I use the llamas to get into an area, then travel into the high country alone. Therefore, my animals are not making deposits in the sheep habitat.

According to various studies in the United States and Canada, the Llama is not considered a "host" animal. These studies were brought to your attention through Phil Nuechterlein. If your decision is not based on current scientific studies, then I would assume that some sort of personal agenda is being played out.

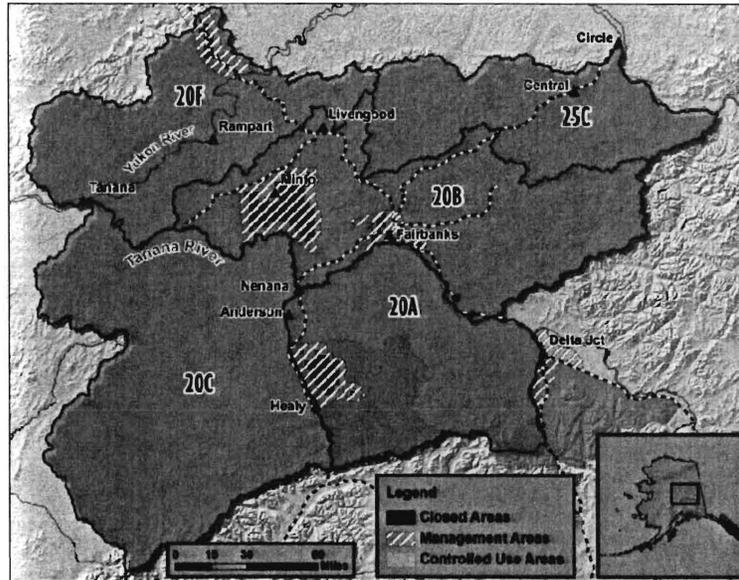
I do not like the idea of testing the animals primarily because of cost.

Therefore, I am asking you to reconsider 102a.

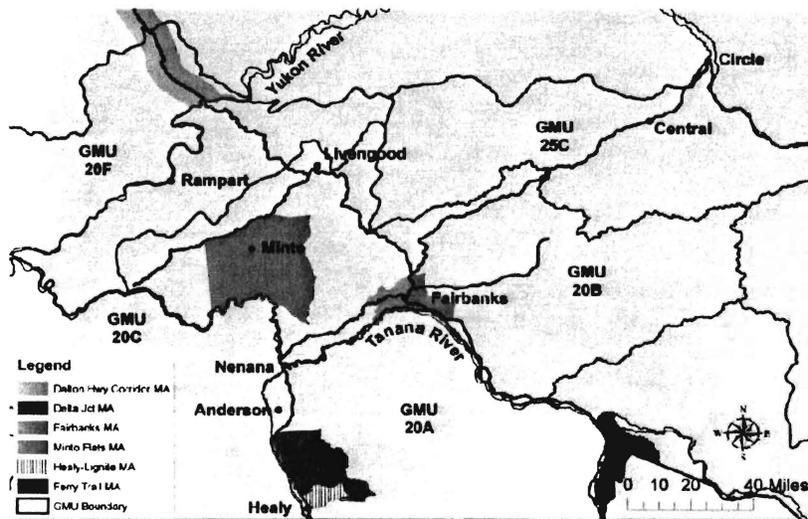
Sincerely,

John H. Ohmann

Fairbanks Area

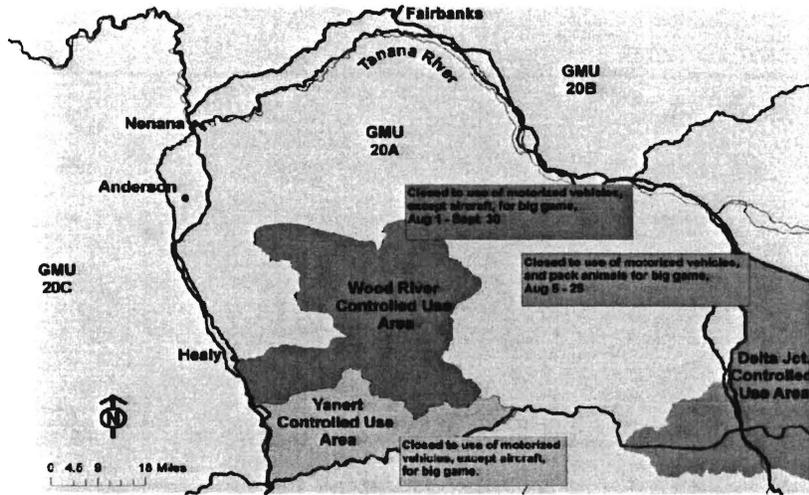


Management Areas



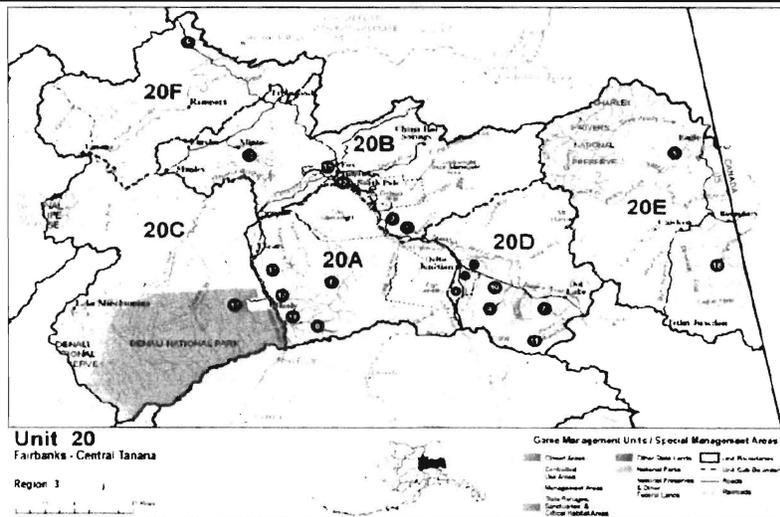
10 PROPOSALS: 4 FMA; 5 MFMA (4 moose, 1 beaver)

Controlled Use Areas

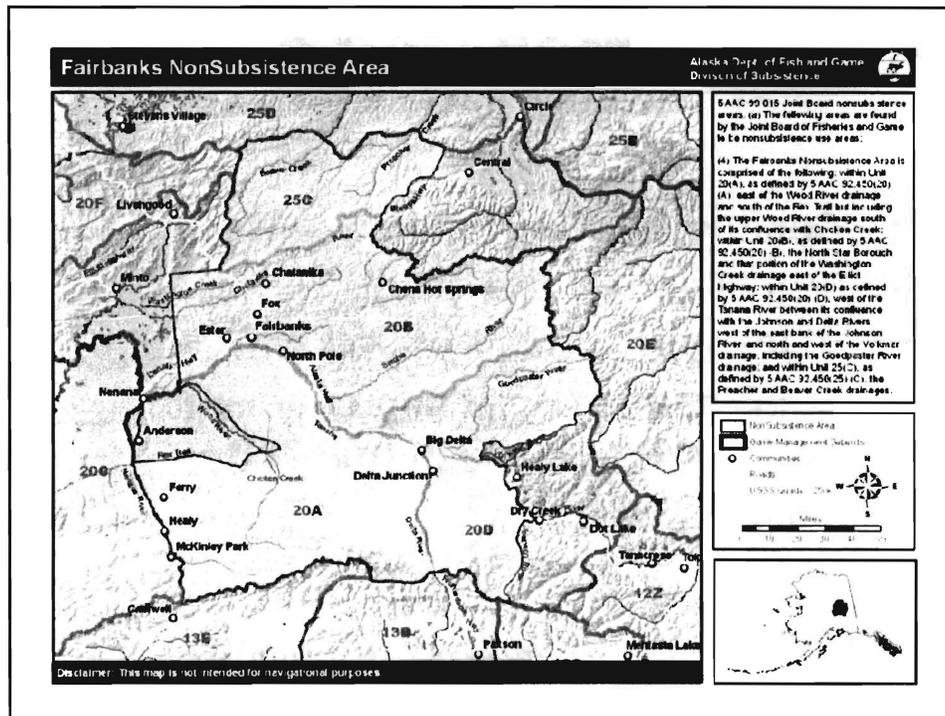
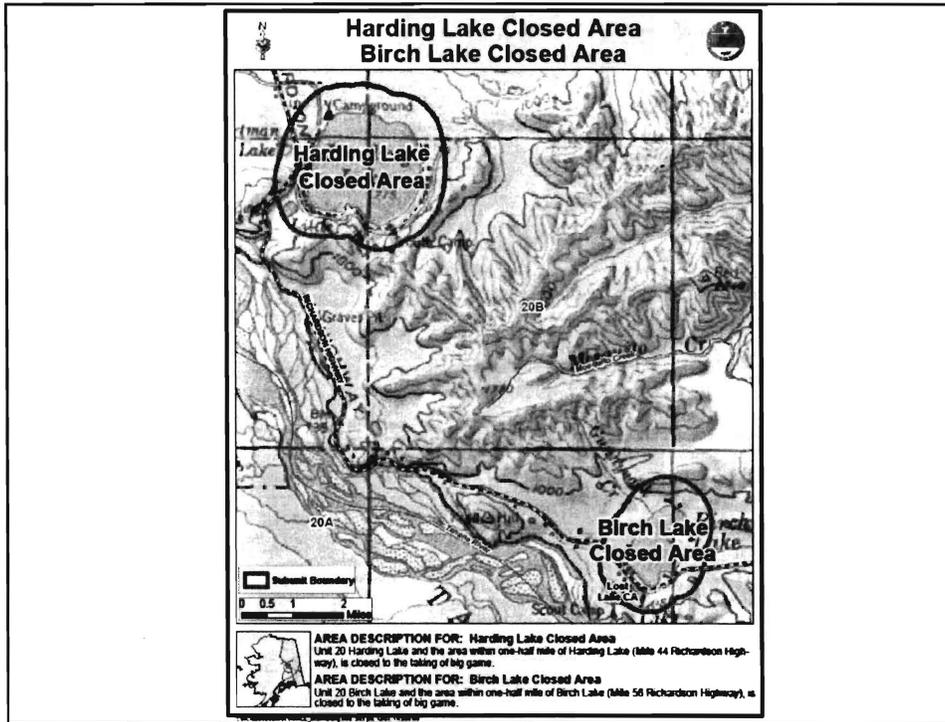


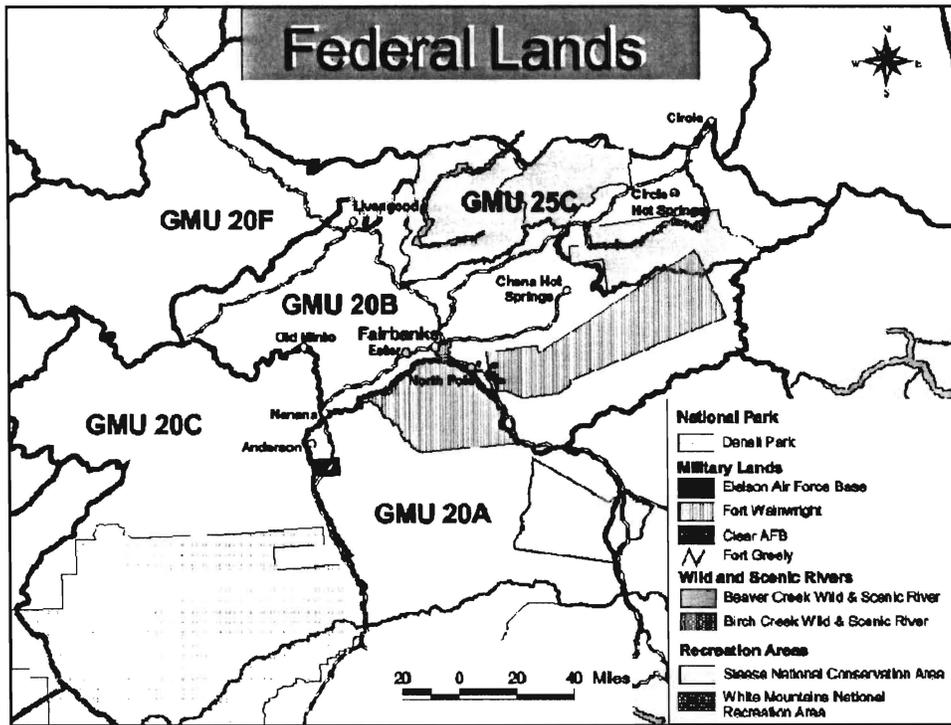
5 PROPOSALS: 1 WRCUA; 1 YCUA; 2 new CUAs 20A and 20C

Closed Areas



1 - Birch and Lost Lakes; 2 - Harding Lake

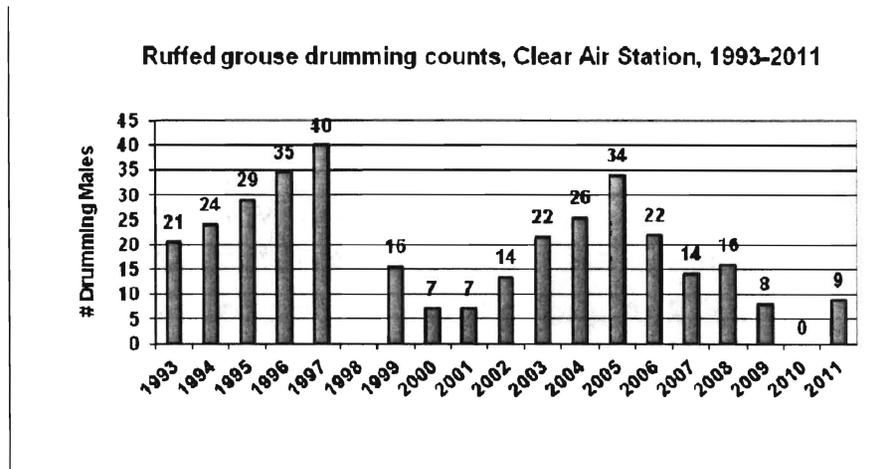




Small Game

- Conduct annual Ruffed Grouse drumming count surveys
- Ptarmigan surveys in Unit 25C
- Small-scale habitat improvement projects for grouse in Unit 20B
- No proposals

Small Game



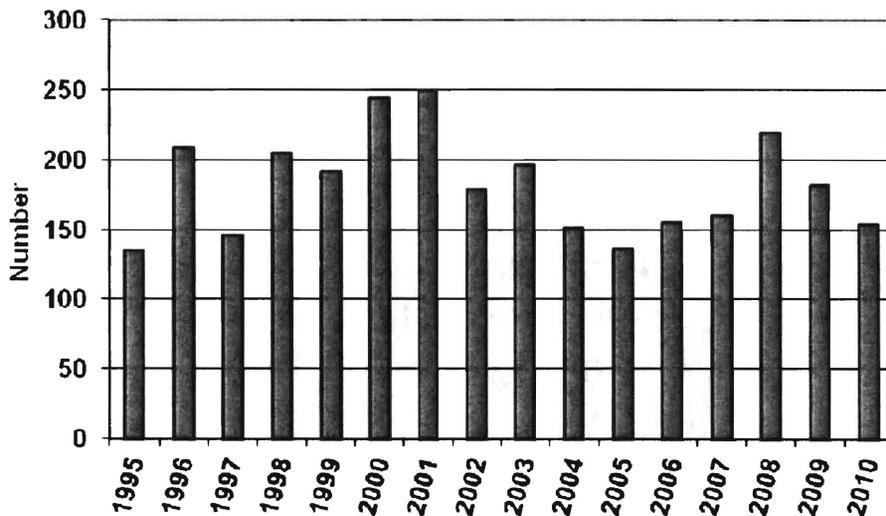
Furbearers

- Lower Chena River beaver management program: balance viewing and nuisances issues; successful
- Annual lynx/hare track surveys discontinued when lynx harvest tracking strategy discontinued
- 1 Proposal:
 - Relax beaver access restrictions MFMA

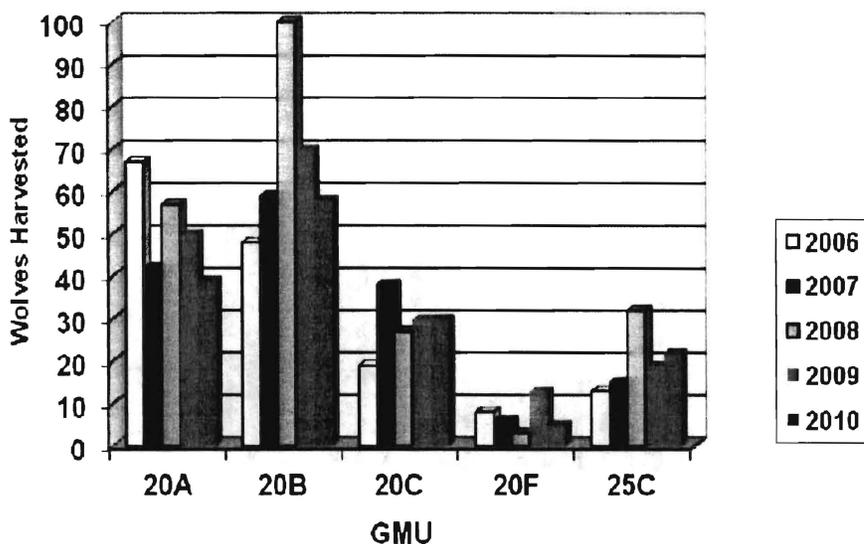
Wolf

- Highest harvests in Units 20A and 20B
- Harvest declining in Unit 20A
- Lower harvests in Units 20C, 20F and 25C
- Issues:
 - Lice identified in Unit 20A wolves in 2004; treatment program effective
- Units 20A and 20C population estimates scheduled spring 2012
- 1 proposal – Unit 20C wolf control

Reported wolf harvest Units 20A, 20B, 20C, 20F and 25C.
regulatory years 1995-2010



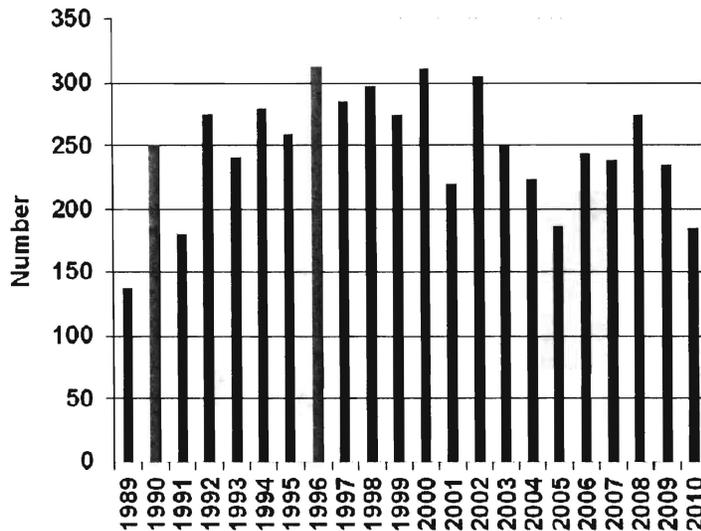
Reported harvest of wolves stratified by Unit, 2006-2010



Black Bear

- Common in all units
- Completed population estimate, Unit 20A, 2010 ($153 \geq 1$ year-old/1000 mi²)
- Issues:
 - Slight declines in harvest (possibly due to military deployments)
- 2 proposals:
 - 1 to allow trapping Unit 20C
 - 1 to increase bag limit Unit 25C

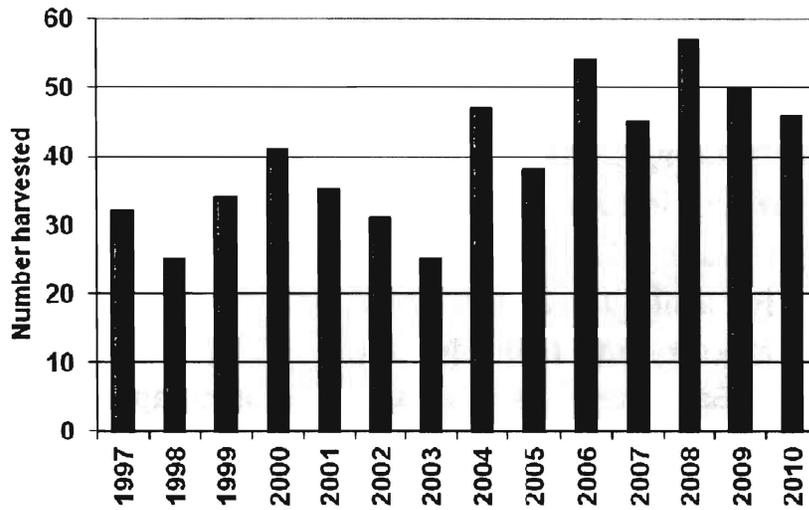
Reported black bear harvest, Units 20A, 20B, 20C and 20F, regulatory years 1989-2010



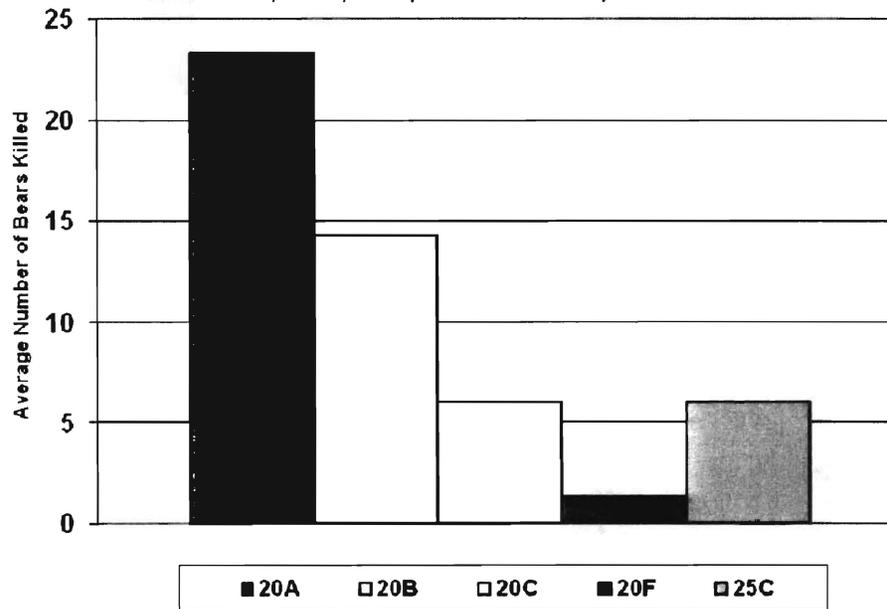
Brown Bear

- **Common in all units**
- **Highest densities Alaska Range (Units 20A and 20C)**
- **Issues:**
 - **Potential overharvest in Units 20A and 20B due to high moose hunter densities**
- **4 proposals:**
 - **Bear control Unit 20C**
 - **Allow take over black bear bait stations (2)**
 - **Align seasons in Unit 20**

Reported grizzly bear harvest in Units 20A, 20B, 20C, 20F and 25C, regulatory years 1997-2010

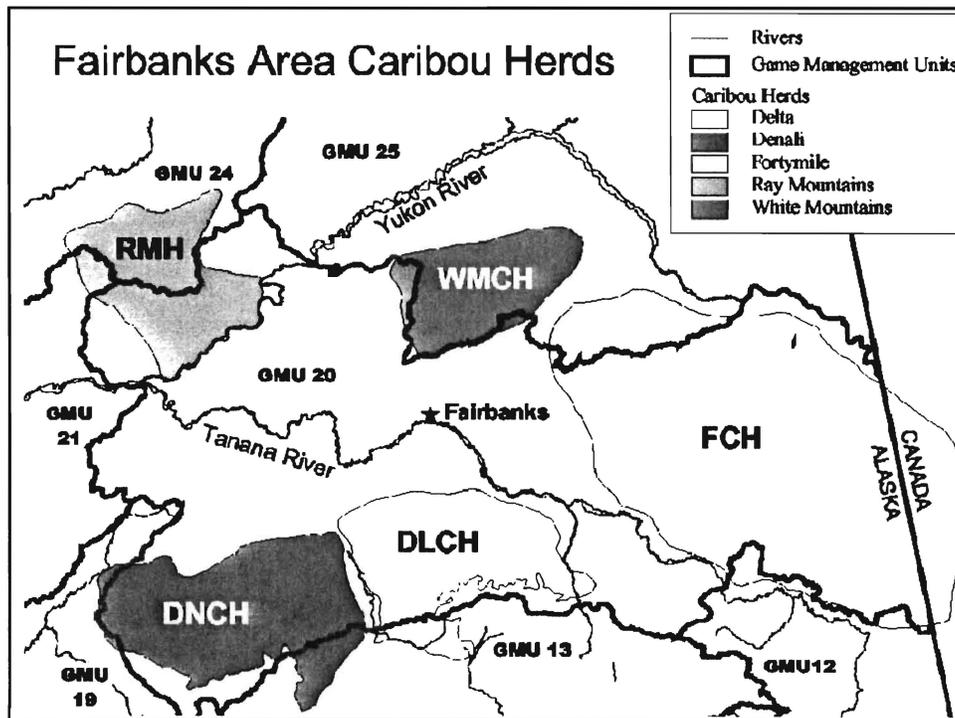


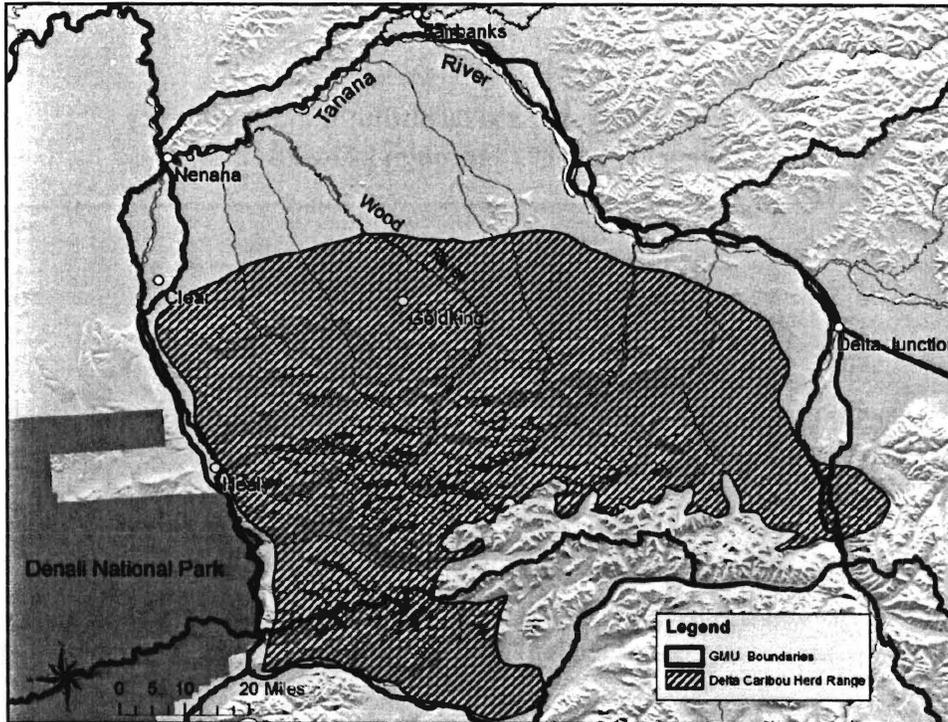
3-year average reported harvest of grizzly bears in Units 20A, 20B, 20C, 20F and 25C, 2008-2010



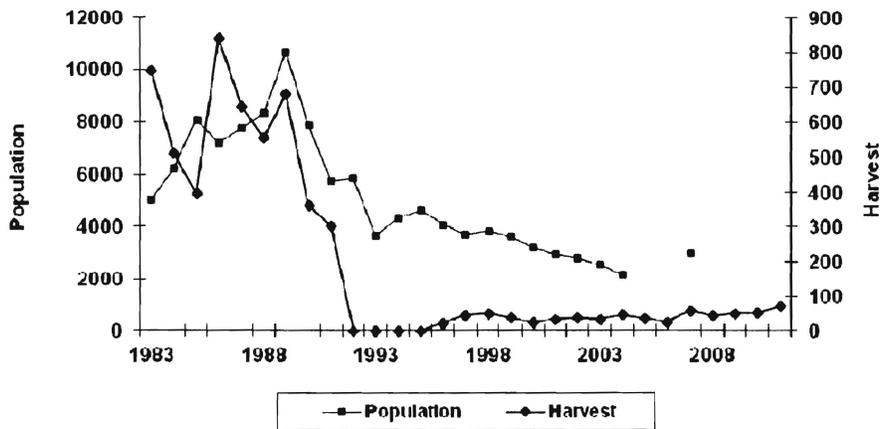
Caribou

- Delta, Denali and White Mountains herds
Fairbanks Area management responsibility
- Relatively small herds < 3000 animals
- Harvest is low
- Issues: Delta herd
 - Relatively low numbers
 - Mixing with Nelchina herd
 - Estimating herd size & trend problematic
 - Vulnerable to overharvest in Unit 13
- No proposals

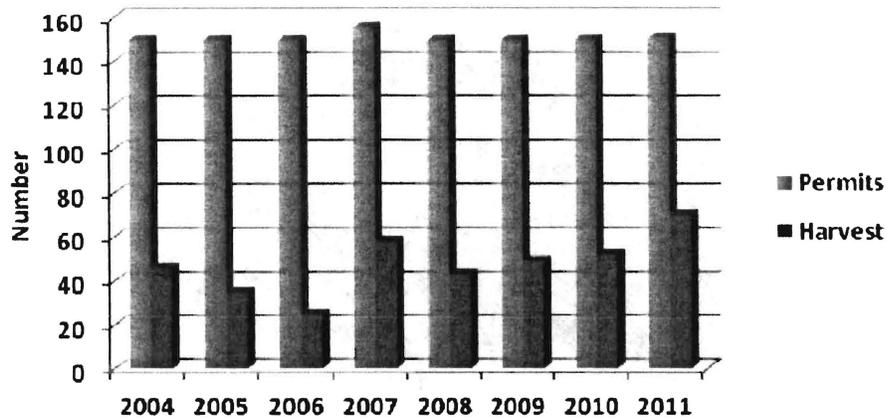




Population size and harvest, Delta Caribou Herd, 1983-2011

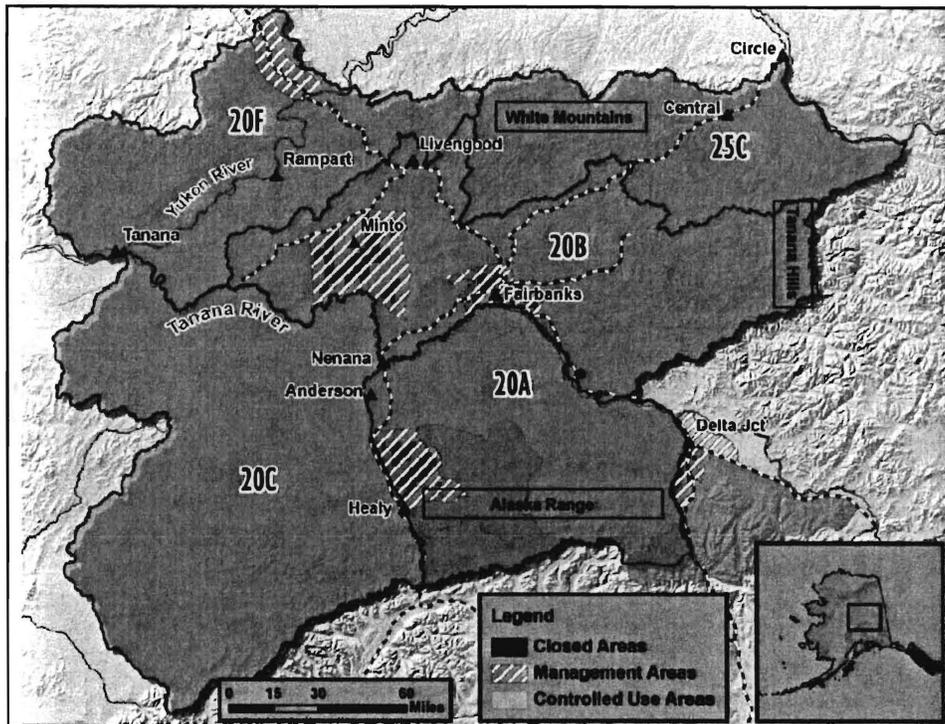


Delta caribou harvest data by permit hunt, regulatory years 1996–1997 through 2011-2012

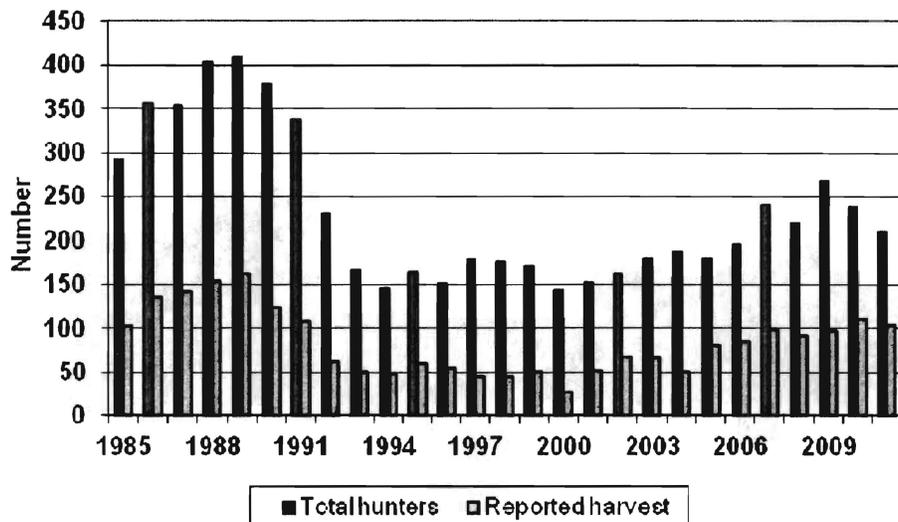


Sheep

- Populations appear to be stable to slightly increasing
- Units 25C (White Mountains) and 20B (Tanana Hills) – effort and harvest relatively low
- Unit 20A (Alaska Range) - effort and harvest increasing through 2009
- 1 area proposals (Unit 20A)

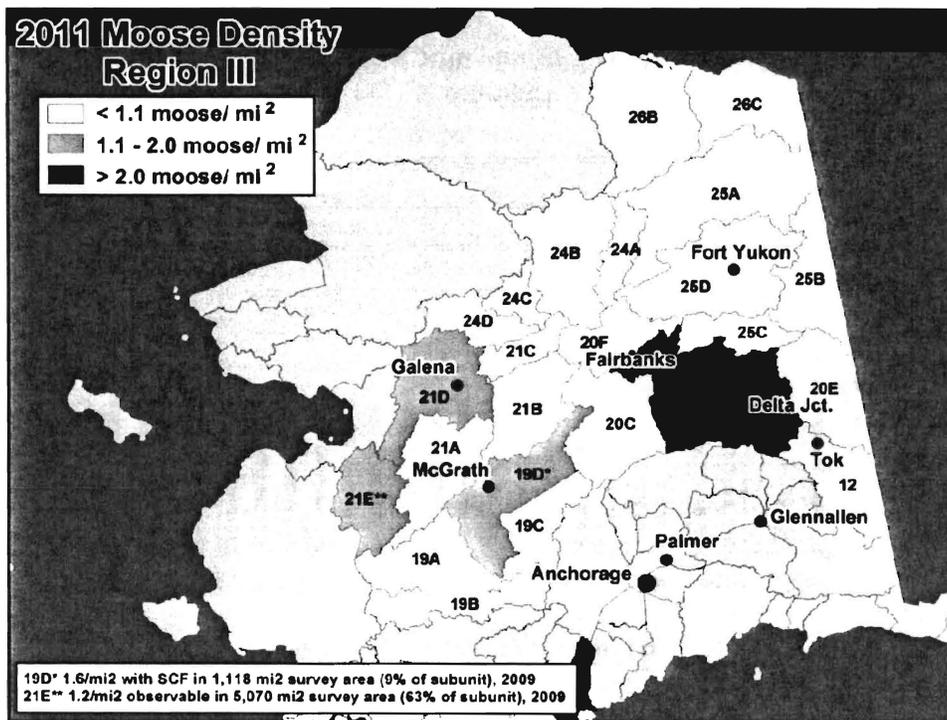


Reported sheep harvest and hunters, Unit 20A, 1985-2011



Moose

- High moose densities in Units 20A and 20B
- Long-term, ongoing research in Unit 20A
- Issues:
 - Intensive Management - Units 20A and 20B:
 - Prescribed fire – Not viable tool
 - Moose numbers/distribution – public skepticism
 - IM harvest mandates – public not well informed
 - Role of calf harvest in elevating harvest (yield)
 - Unit 20B
 - Moose population growth; population regulation; harvest
 - Moose/vehicle collisions high, especially in Fairbanks MA
 - Minto Flats MA registration hunt permit distribution
- Proposals (20A, 20B, 20C): 2 Department; 19 public



During 1997-2005, GMU 20A moose exhibited the lowest nutritional status reported to date for wild, noninsular, North American populations

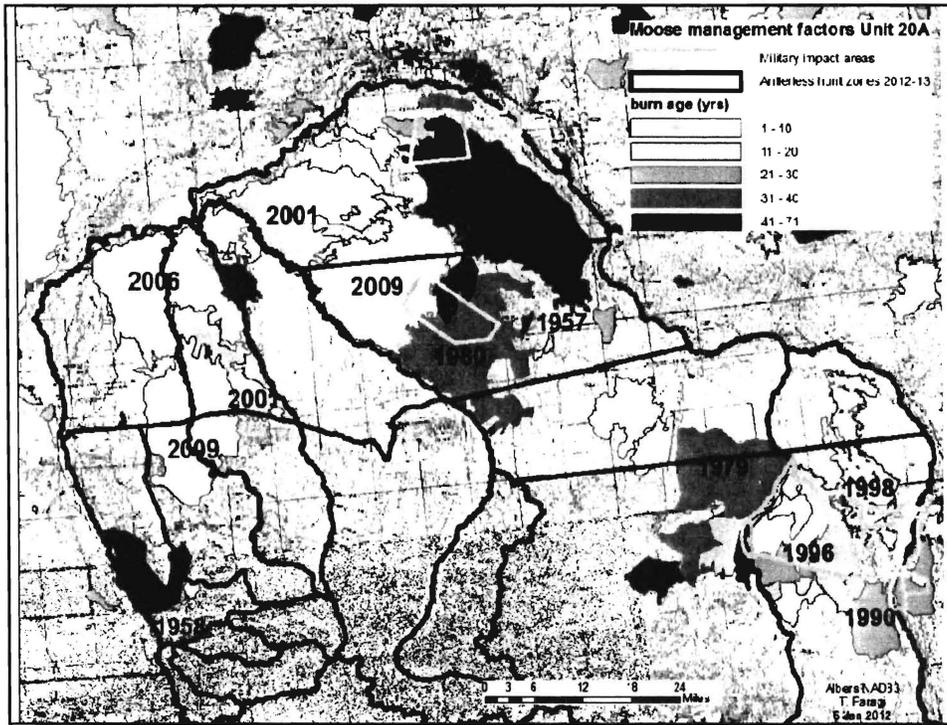
- Delayed reproduction until \geq 36 months
- Lowest parturition rate among 36-month-old moose (29%)
- Lowest average multi-year twinning rates (7%)
- Delayed twinning until \geq 60 months
- Lowest female, short-yearling weights (155 kg)
- Highest browse biomass removal rates (42%)



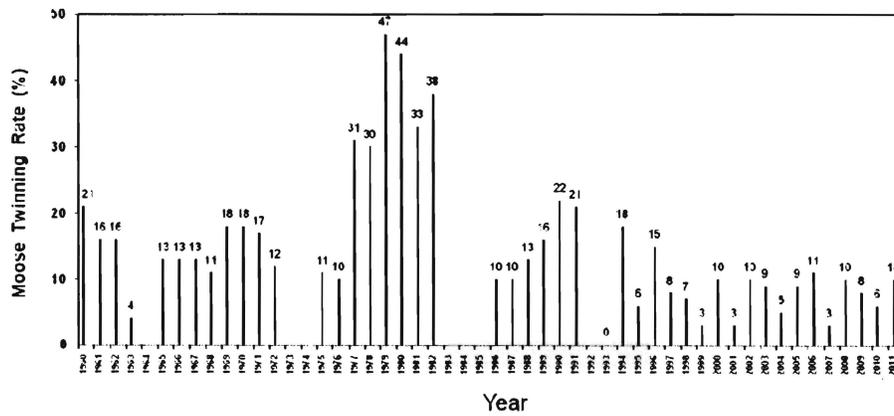
BOERTJE, R.D., K. A. KELLIE, C. T. SEATON, M. A. KEECH, D. D. YOUNG, B. W. DALE, L. G. ADAMS, and A. R. ADERMAN. 2007. Ranking Alaska moose nutrition: signals to begin liberal antlerless harvests. *Journal of Wildlife Management* 71: 1494-1506.

Intensive Management - Units 20A and 20B

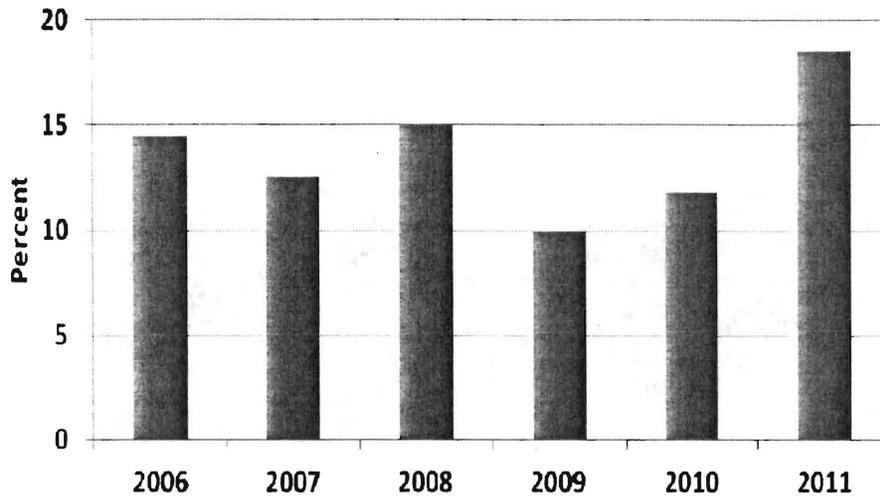




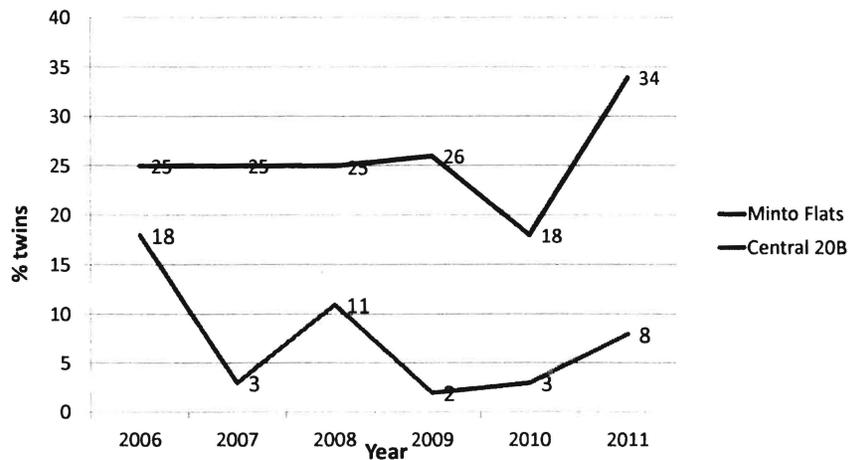
Moose twinning rates, central Unit 20A, 1960-2011

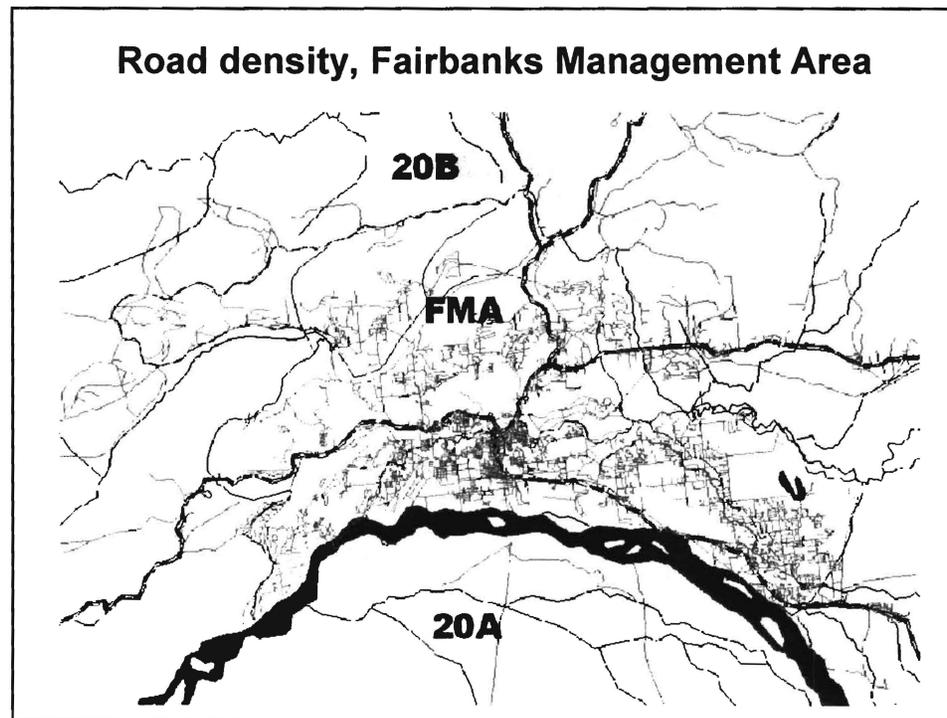
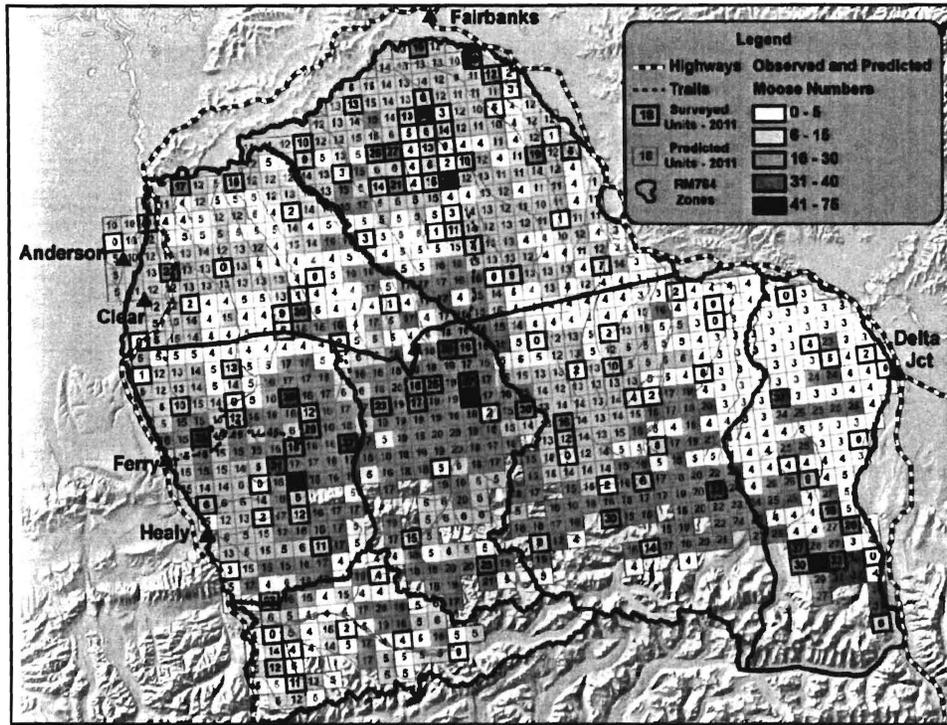


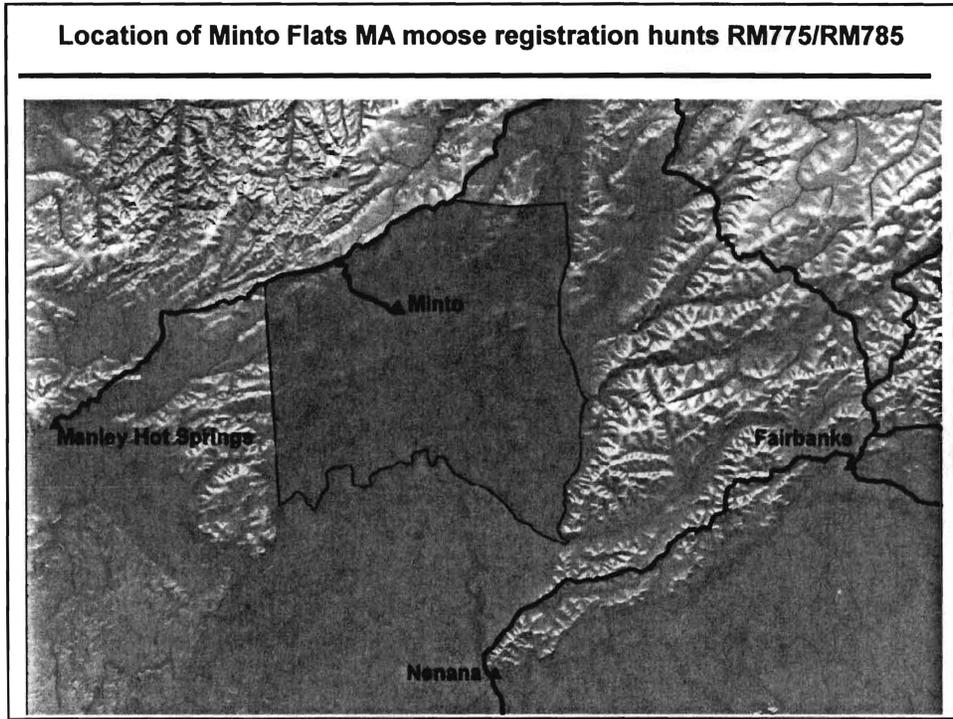
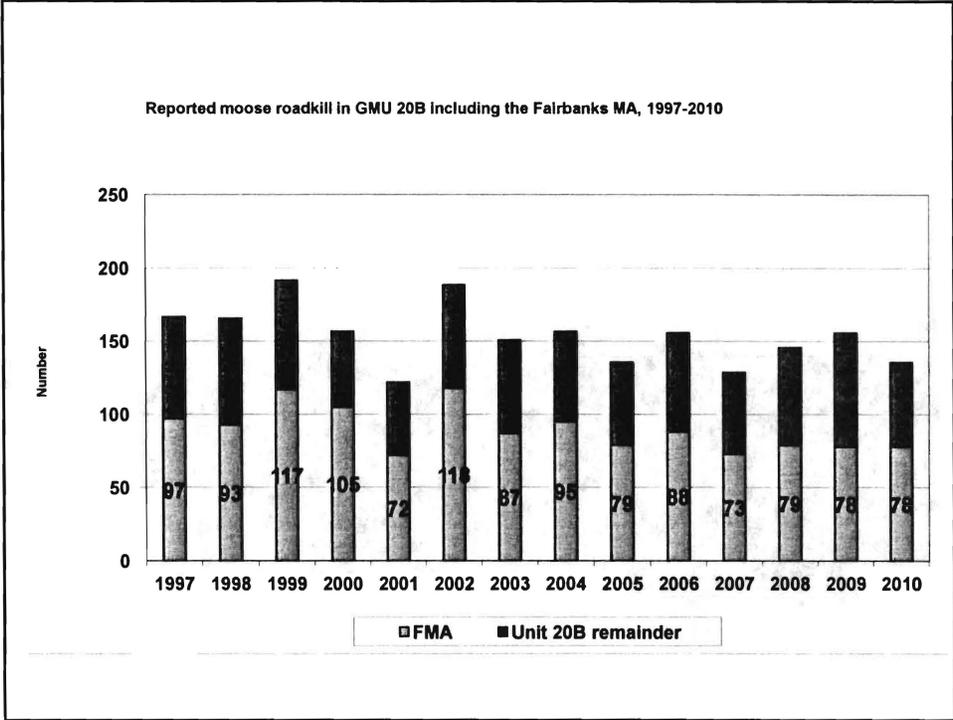
Twinning rates on the Tanana Flats, Unit 20A, 2006-2011



20B Twinning rates



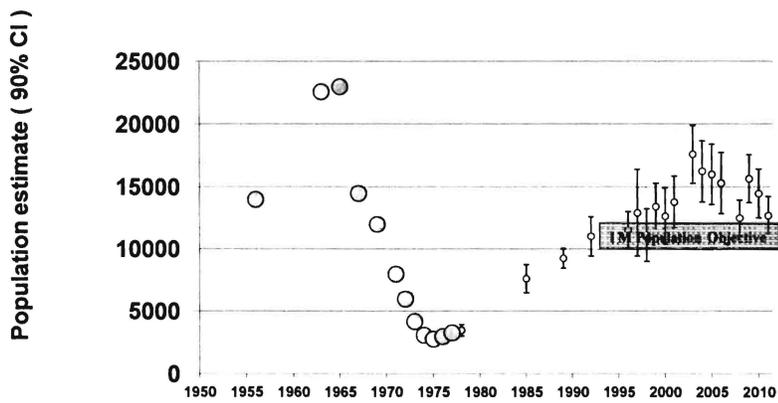


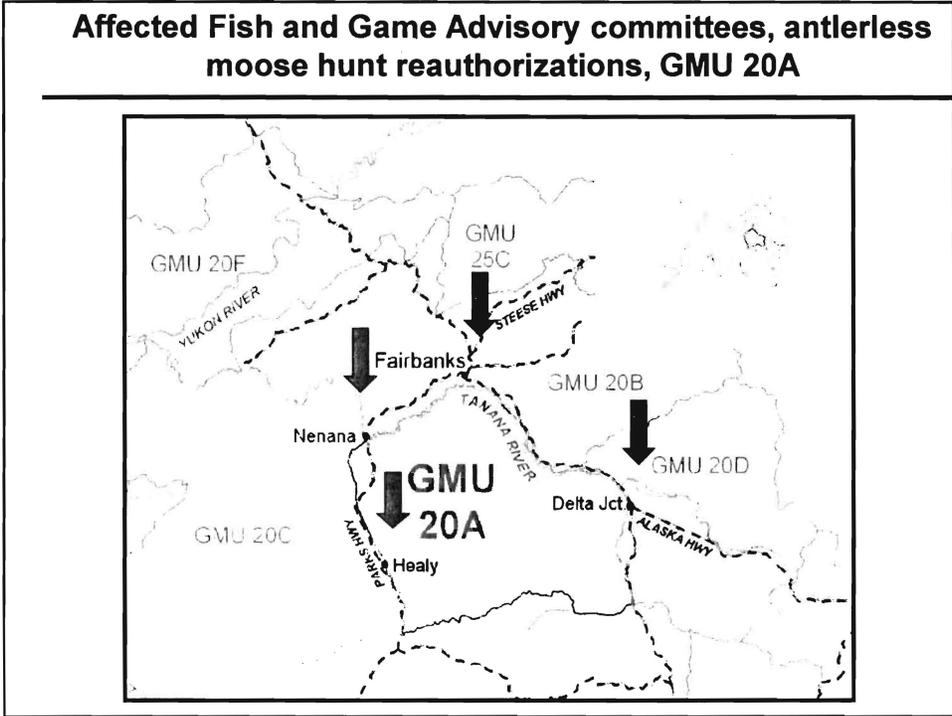
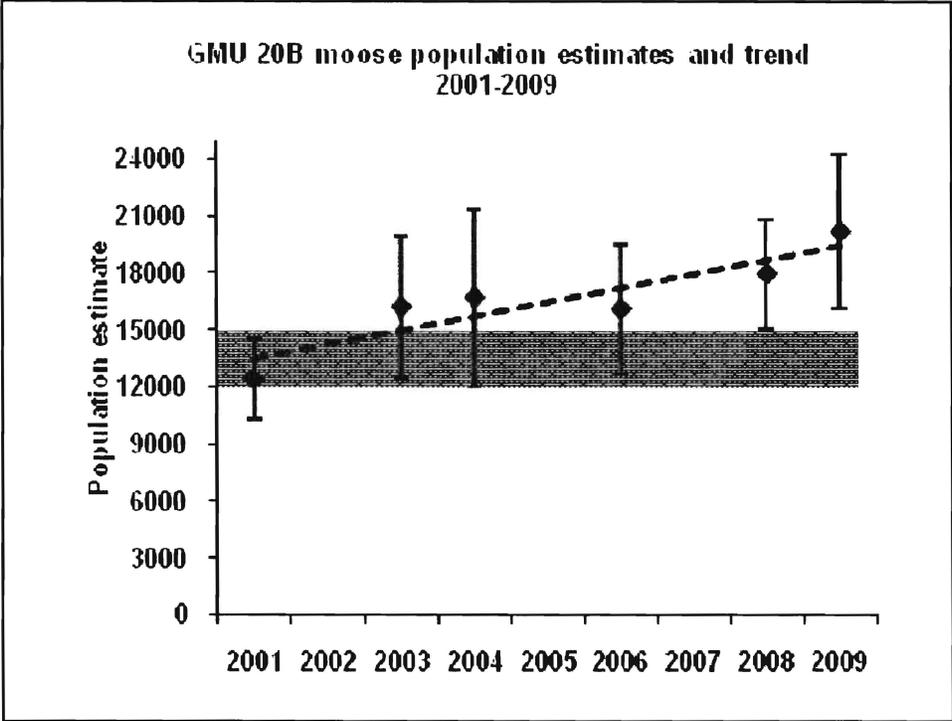


Minto Flats MA registration hunt permit distribution, Fairbanks, August 2006



GMU 20A moose population trend, 1956-2011





Proposal 204 A– Unit 20A Moose

EFFECT OF THE PROPOSAL:

- Increase the Intensive Management (IM) population objective for moose in Unit 20A from 10,000-12,000 to 12,000-15,000
- Decrease the IM harvest objective from 1,400-1,600 to 900-1,000

DEPARTMENT RECOMMENDATION:
Amend and Adopt

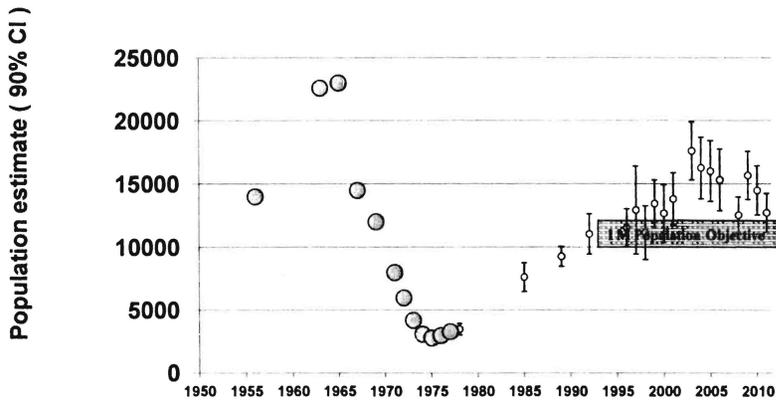
Proposal 204 A– Unit 20A Moose

DEPARTMENT RECOMMENDATION: Amend and Adopt

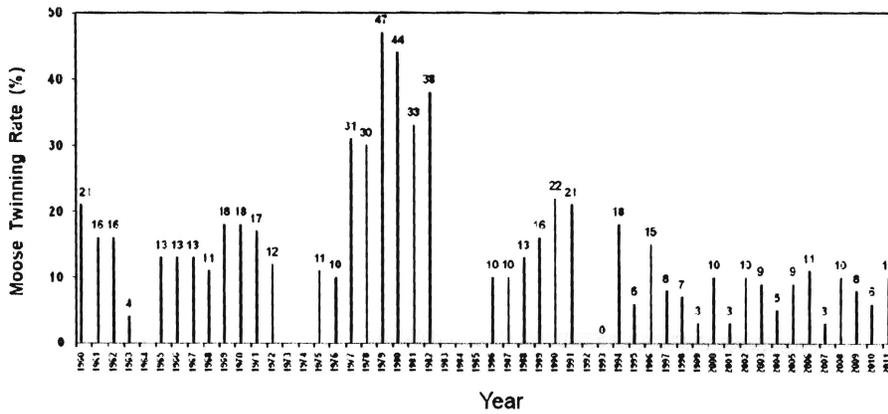
RATIONALE:

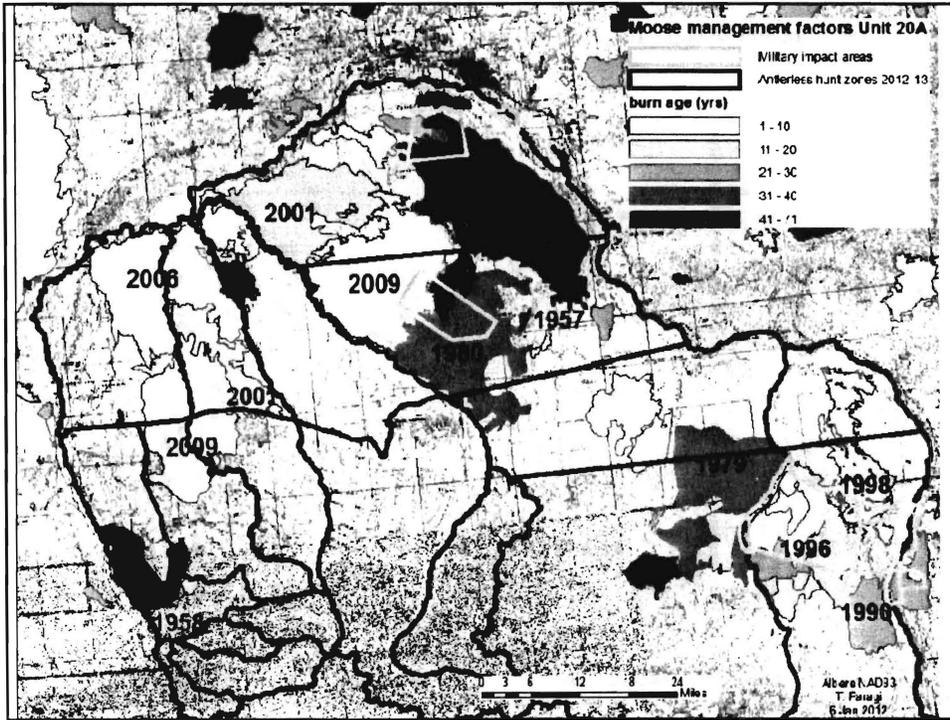
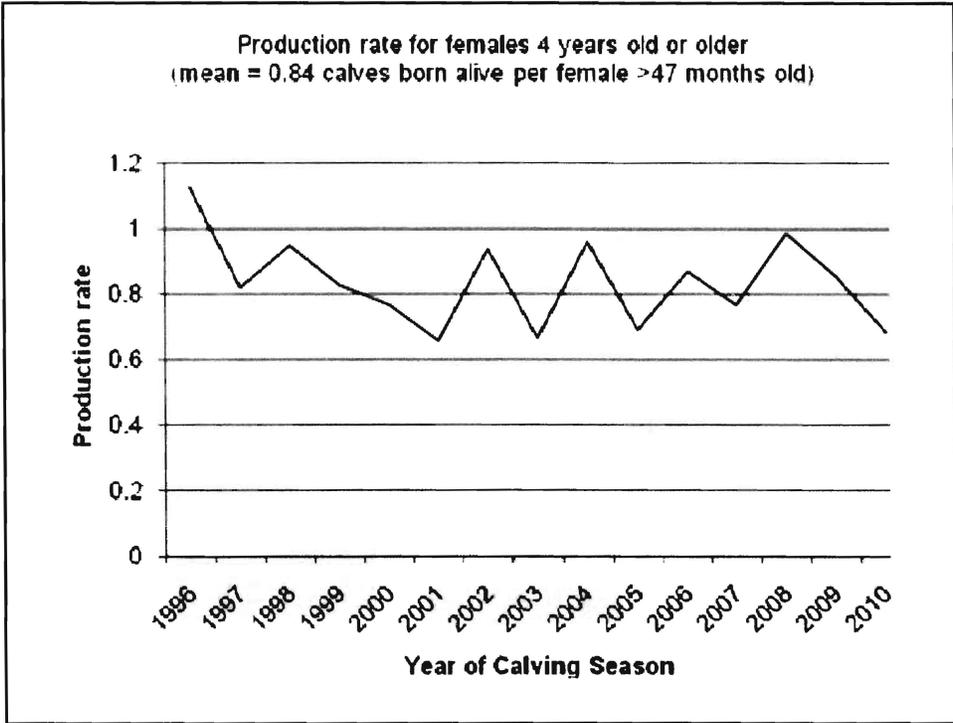
- Population reduced from estimated 17,000-18,000 moose to 13,000-14,000, 2004-2007
- Female harvest rates were reduced beginning in 2008 in an attempt to stabilize the population at 13,000–14,000 moose
- At that level, no further declines in moose productivity has been detected
- Landscape-scale habitat improvement (~500,000 acres burned), 2001-2009

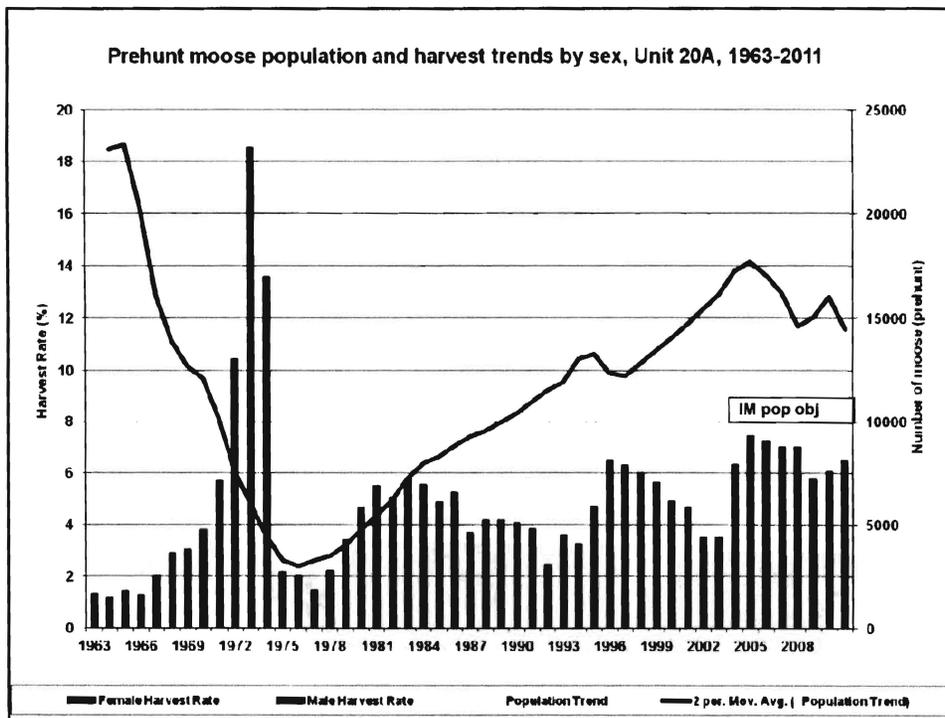
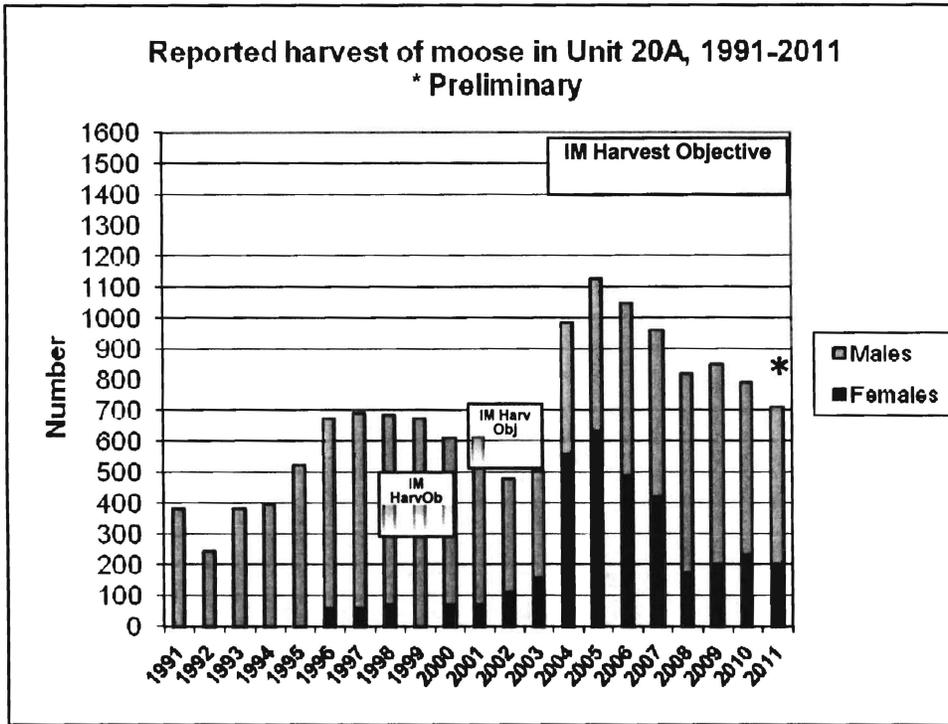
GMU 20A moose population trend, 1956-2011



Moose twinning rates, central Unit 20A, 1960-2011







Proposal 204 A– Unit 20A Moose

EFFECT OF THE PROPOSAL:

- Increase the Intensive Management (IM) population objective for moose in Unit 20A from 10,000-12,000 to 12,000-15,000
- Decrease the IM harvest objective from 1,400-1,600 to 900-1,000

DEPARTMENT RECOMMENDATION:
Amend and Adopt

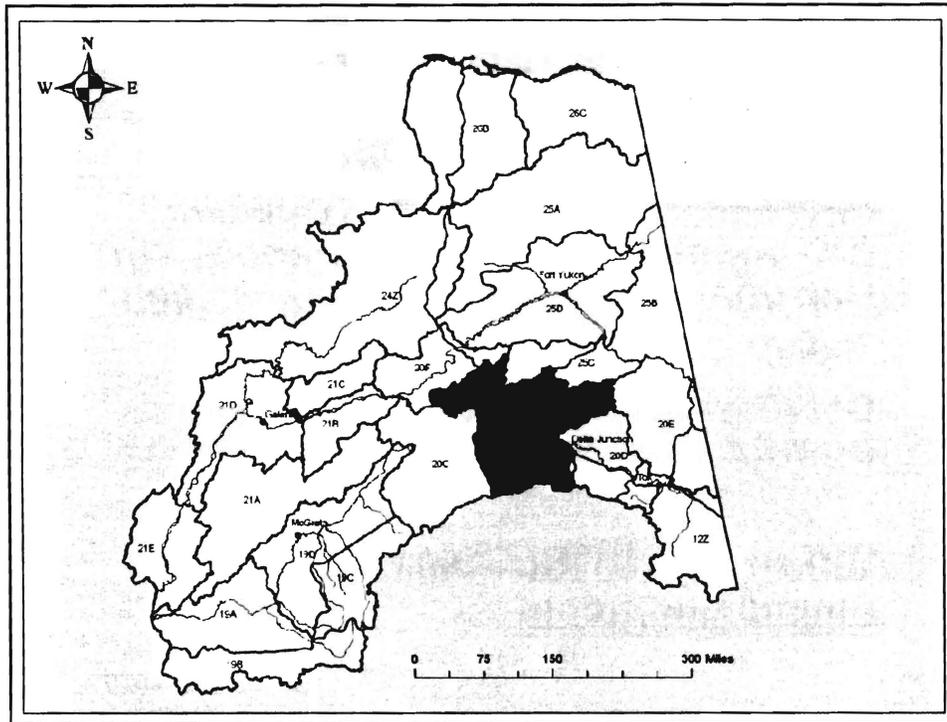
Proposal 205 – GMU 20A and 20B Moose

EFFECT OF THE PROPOSAL:

Allow take of moose calves in antlerless moose permit hunts in Units 20A and 20B

DEPARTMENT RECOMMENDATION: Do Not Adopt

- Amended position (i.e., from Adopt) in response to recent antlerless reauthorization agreement with Fairbanks AC and discussion with Middle Nenana AC



Harvest of calf moose - Issues

- **Personal Values** – Department respects personal values, but feels responsibility to inform public of all related issues
- **Biological**
 - Calf harvest more compensatory than adults
 - Calf harvest more resilient to overharvest than that of adult cows (i.e., mortality more additive)
 - More effective management strategy is to allow calf harvests in high-density areas (e.g., IM areas; 20A, 20B), but protect calves in areas of concern (e.g., low density areas)
- **Intensive Management**
 - To optimized yield harvest of calves is necessary (e.g., Scandinavia - harvest ~40% calves, British Columbia, Ontario)
 - ~50 bulls:20 cows:30 calves recommended harvest ratio to optimize yield in Canadian studies
- **Enforcement**
 - Prohibition on take of calves not enforceable due to overlap in size between calves & yearlings

Harvest of calf moose - Issues

- **Regulatory**
 - In 2004, Board rescinded statewide moratorium on take of calves that had been adopted in 2002
 - Legal to take bull calves statewide in hunts with "bull" bag limit
 - Take of calves allowed in antlerless hunts in most of the rest of the state
 - Confusion (e.g., in FMA, DM788 may take calf, but in general hunt may not; in adjacent antlerless drawing hunt may not take calf, but in general hunt may take bull calf; in MFMA RM775/785 hunts may take calf; in 20A may not take a calf in antlerless hunts)
 - No analogous prohibition on taking calves or fawns (e.g., caribou or deer)

Harvest of calf moose - Issues

- **Other**
 - Would allow take of an orphaned calf in cases where a cow accompanied by a calf is mistakenly taken
 - Harvest of calves likely to increase success rates and reduce the length of antlerless seasons, which in turn reduces conflicts with the public and other users, especially trappers
 - Likely to reduce the number of antlerless bulls taken in winter hunts

Proposal 205 – GMU 20A and 20B Moose

EFFECT OF THE PROPOSAL:

Allow take of moose calves in antlerless moose permit hunts in Units 20A and 20B

DEPARTMENT RECOMMENDATION: Do Not Adopt

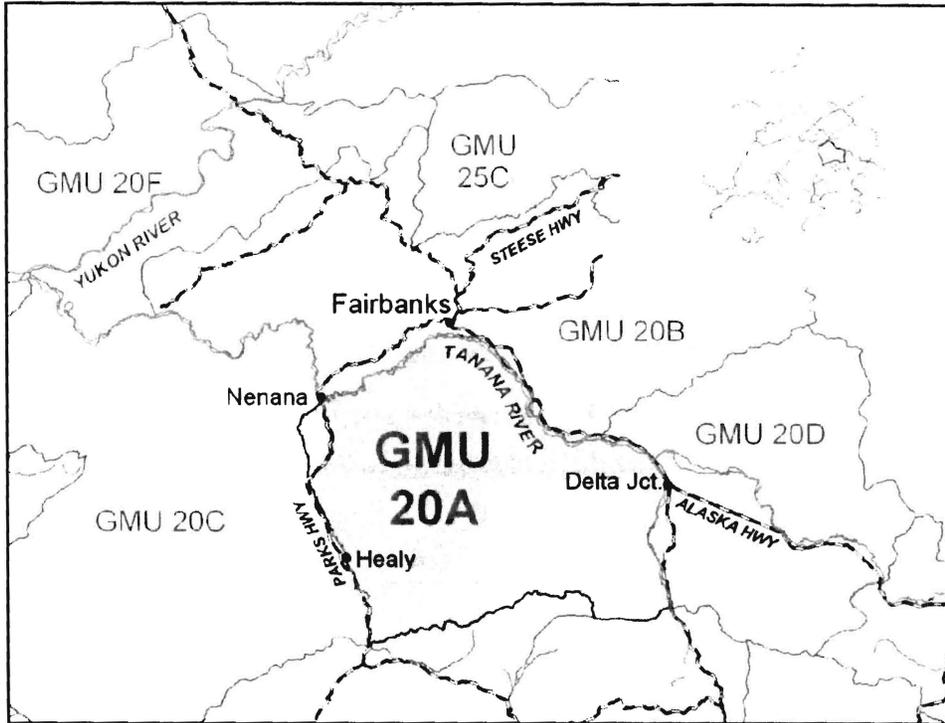
- **Amended position (i.e., from Adopt) in response to recent antlerless reauthorization agreement with Fairbanks AC and discussion with Middle Nenana AC**

Proposal 206 A – Unit 20A Moose

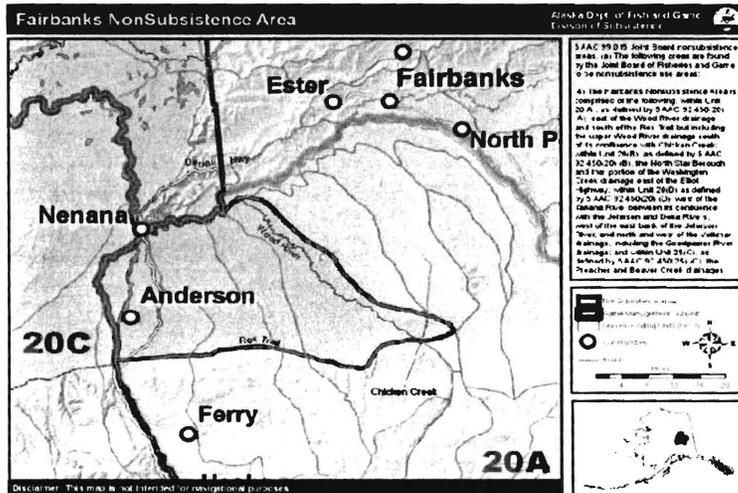
EFFECT OF THE PROPOSAL:

- **Reauthorize antlerless hunt**
- **Shorten registration hunt season in the Fairbanks Non-subsistence Area of Unit 20A from Oct. 1-Feb. 28 to Oct. 1-November 30 (under discretionary permit hunt authority)**
- **Fairbanks AC recommended shorter season in all of Unit 20A**

DEPARTMENT RECOMMENDATION: Amend and Adopt



Portion of Unit 20A outside of the Fairbanks Nonsubsistence Area with more restrictive bag limit

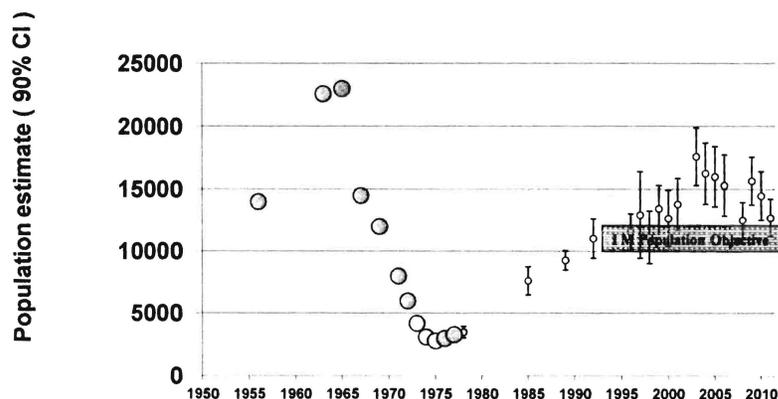


Proposal 206 A – GMU 20A Moose

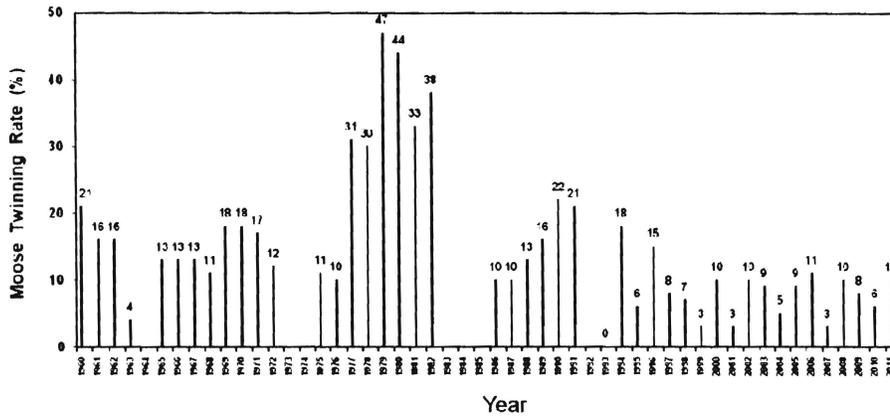
RATIONALE:

- Population at or above IM population objective
- Population remains nutritionally stressed
- Liberal antlerless harvest important:
 - Biologically: Limit/regulate population growth
 - IM: meet mandate for elevated yield

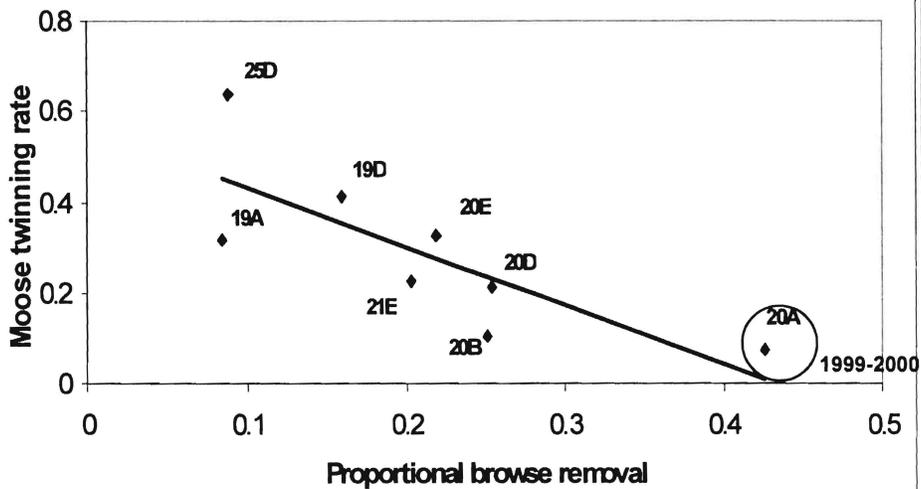
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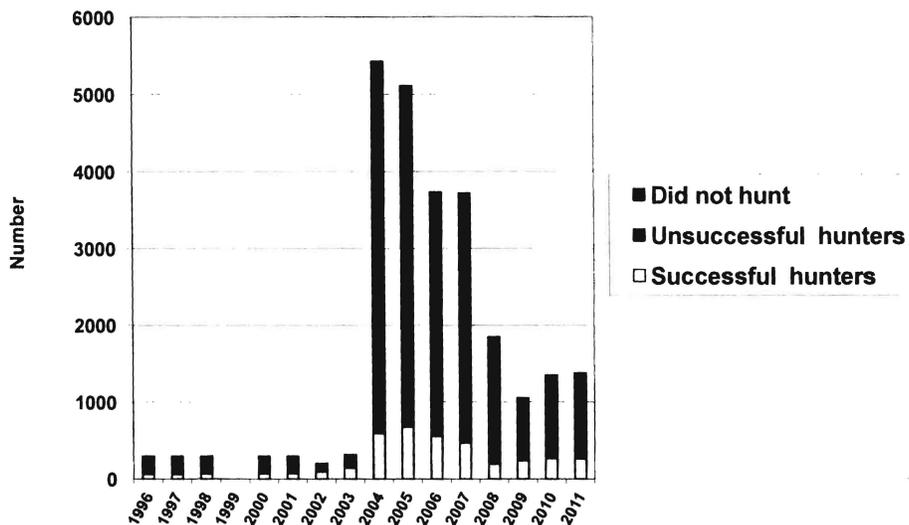
Moose twinning rates, central Unit 20A, 1960-2011



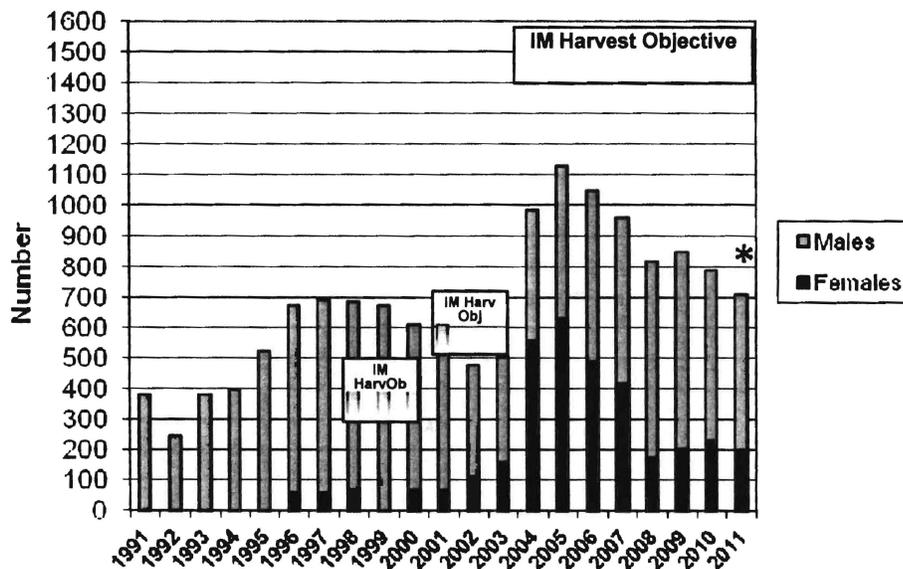
Relationship between moose twinning and browse removal rates

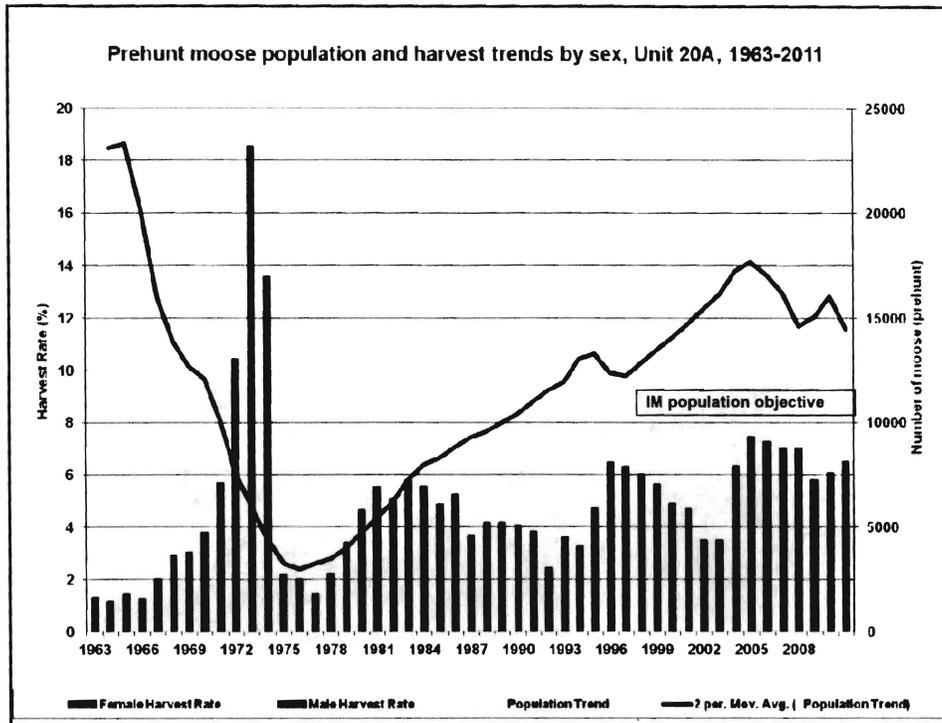


Antlerless moose hunts, Unit 20A, 1996-2011



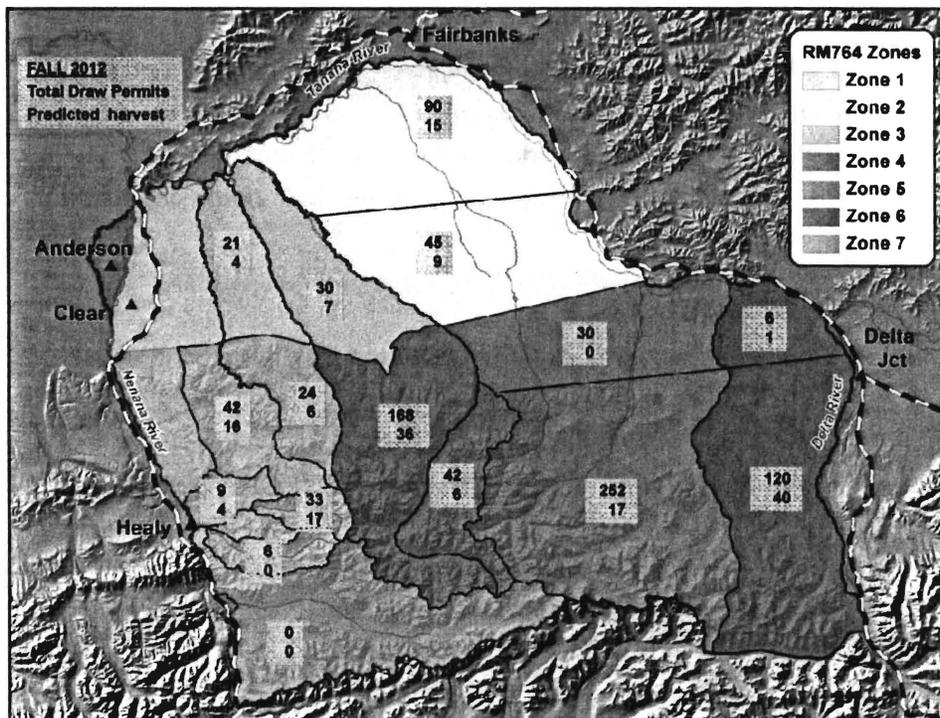
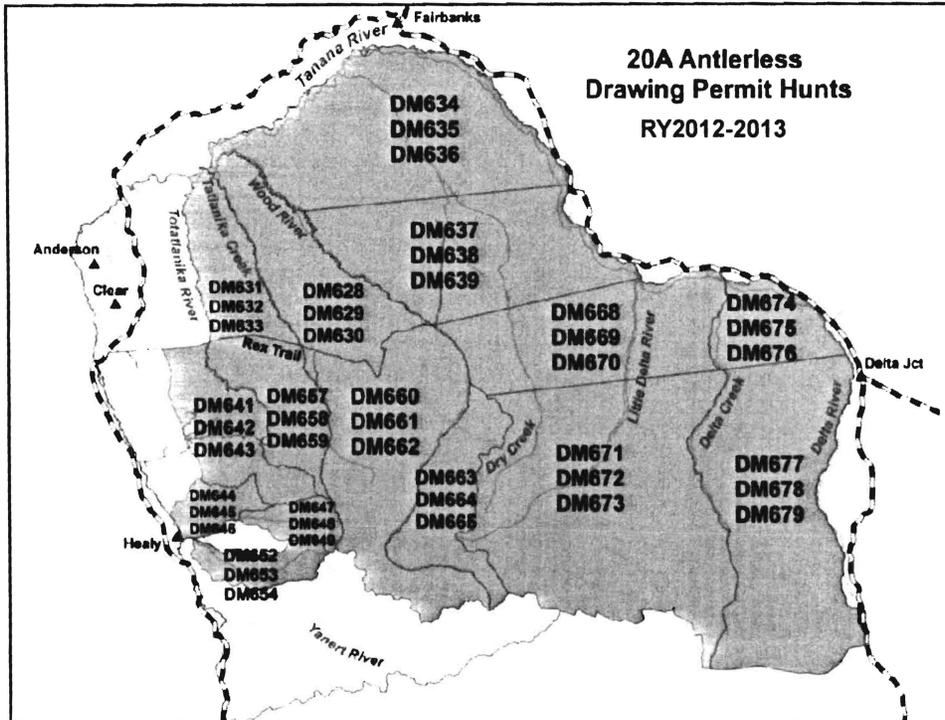
Reported harvest of moose in Unit 20A, 1991-2011 * Preliminary

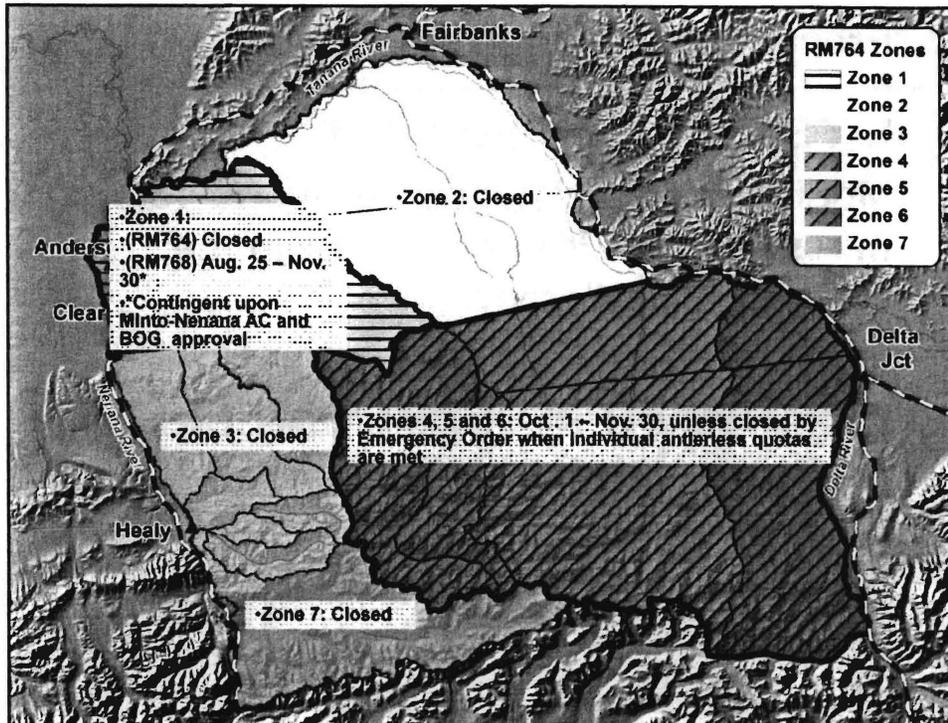




2012-2013 Recommendations

- Calculate Unit 20A antlerless harvest goals using:
 - Lower 90% CI (11,156 moose) rather than point estimate (12,724 moose)
 - 2.0% (223 antlerless moose) rather than 2.5% (279 antlerless moose)
- Reduce Zone 2 antlerless harvest from 2.5% (43) to 1.5% (26) of lower 90% CI (1727 moose)
- Close registration hunt RM764 in Zone 2
- Conduct registration hunt RM764 only in foothills (Zones 4, 5, 6), if needed, to meet harvest goals in those zones
- End antlerless registration hunt RM764 by Nov. 30
- Retain registration subsistence hunt RM768 (50 permits) in western Tanana Flats (Aug 25-Feb 28)





Proposal 206 A – Unit 20A Moose

EFFECT OF THE PROPOSAL:

- Reauthorize antlerless hunt
- Shorten registration hunt season in the Fairbanks Non-subsistence Area of Unit 20A from Oct. 1-Feb. 28 to Oct. 1-November 30 (under discretionary permit hunt authority)
- Fairbanks AC recommended shorter season in all of Unit 20A

DEPARTMENT RECOMMENDATION: Amend and Adopt

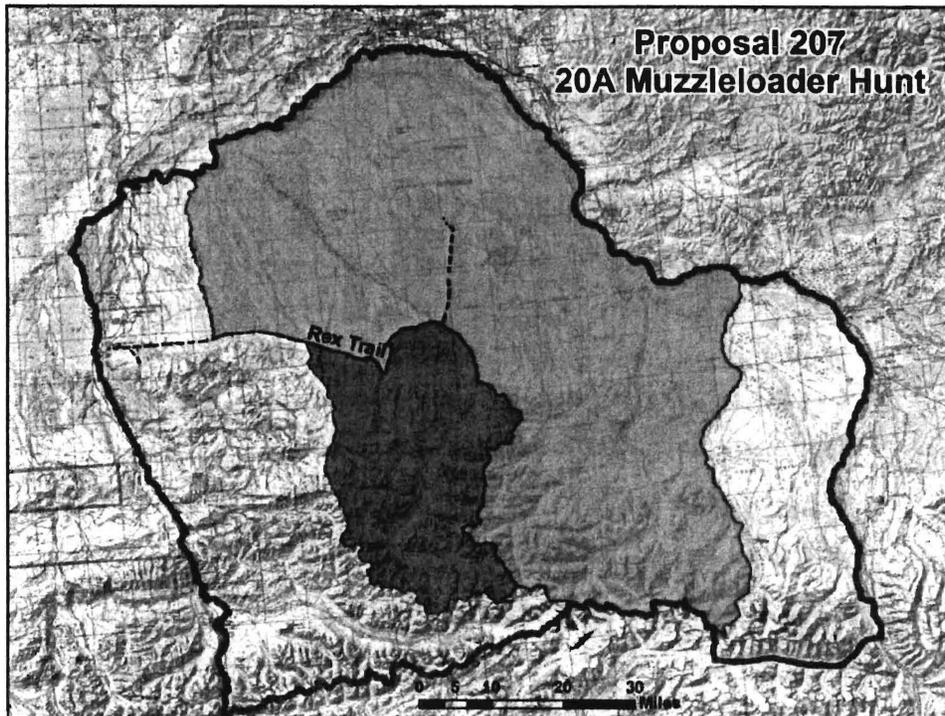
Proposal 207 – Unit 20A Moose

EFFECT OF THE PROPOSAL:

Modify the muzzleloader hunt area for moose in Unit 20A (i.e., revert to the “original” hunt area)

DEPARTMENT RECOMMENDATION:

No Recommendation



Proposal 207 – Unit 20A Moose

RATIONALE:

- This is an allocation/user conflict issue
- Current November muzzleloader hunt (DM766) is small-scale (up to 75 permits) with average annual harvest of 15 (range 8-25) bulls
- Conflicts between hunters, trappers and local residents have been reported
- Department may conduct hunt in “original hunt area” under discretionary permit hunt authority

Proposal 207 – Unit 20A Moose

EFFECT OF THE PROPOSAL:

Modify the muzzleloader hunt area for moose in Unit 20A (i.e., revert to the “original” hunt area)

DEPARTMENT RECOMMENDATION:

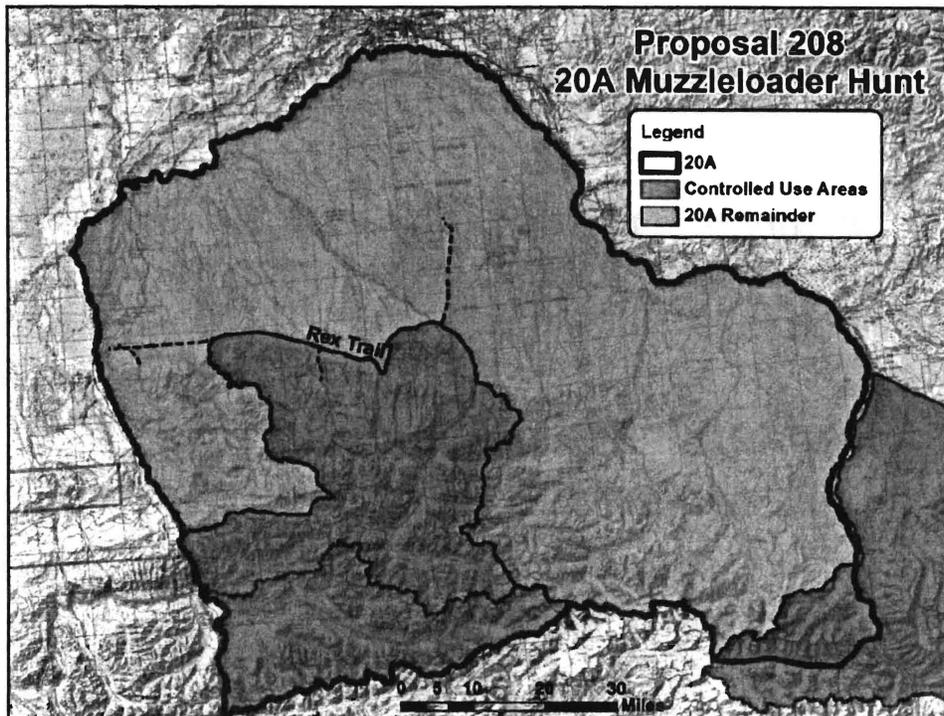
No Recommendation

Proposal 208 – Unit 20A Moose

EFFECT OF THE PROPOSAL:

- Establish a new muzzleloader hunt in the remainder of Unit 20A, outside controlled use areas
- “any moose” bag limit
- Nov 1- Dec 30 season dates
- Up to 75 permits

DEPARTMENT RECOMMENDATION:
No Recommendation



Proposal 208 – Unit 20A Moose

RATIONALE:

- This is an allocation issue
- Hunt bull moose with a muzzleloader under general hunt and drawing hunt regulations during September
- Hunt antlerless moose in portions of Unit 20A under RM764 hunt
- Conflicts with season closing date for antlerless hunt RM764 (30 November)
- Not a conservation concern

Proposal 208 – Unit 20A Moose

EFFECT OF THE PROPOSAL:

- Establish a new muzzleloader hunt in the remainder of Unit 20A, outside controlled use areas
- “any moose” bag limit
- Nov 1- Dec 30 season dates
- Up to 75 permits

DEPARTMENT RECOMMENDATION:
No Recommendation

Proposal 209– Unit 20A Moose

EFFECT OF THE PROPOSAL:

Require hunters to attach a locking tag at the kill site [and keep the antlers visible during transport from the field]

DEPARTMENT RECOMMENDATION:

Take No Action

Based on action taken on Proposal 52 at statewide BOG meeting, January, 2012

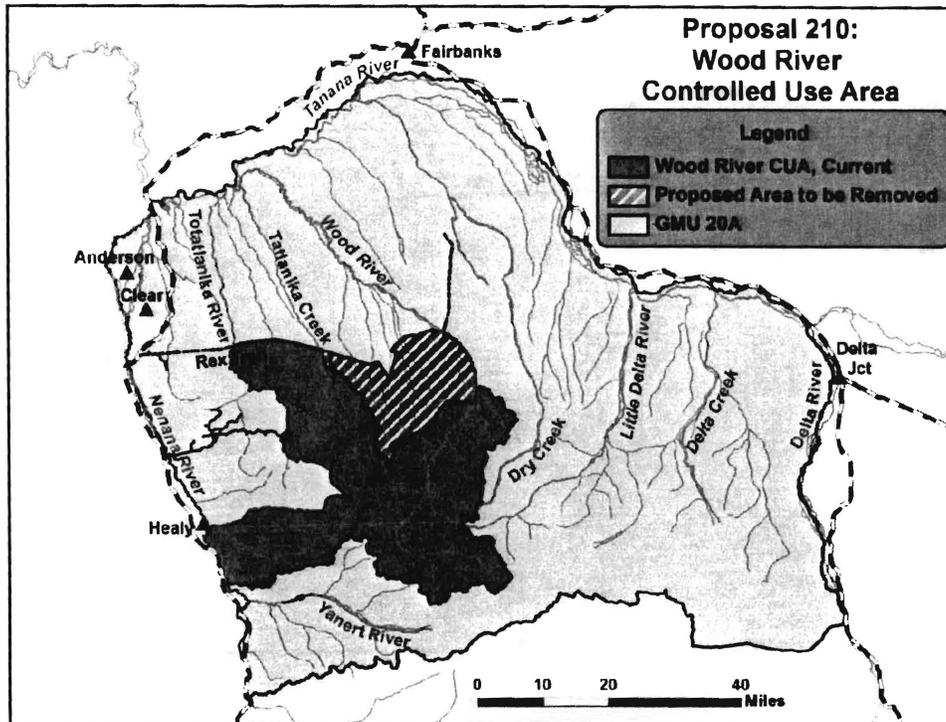
Proposal 210 – Unit 20A Controlled Use Area

EFFECT OF THE PROPOSAL:

Move the northern boundary of the Wood River Controlled Use Area (WRCUA)

DEPARTMENT RECOMMENDATION:

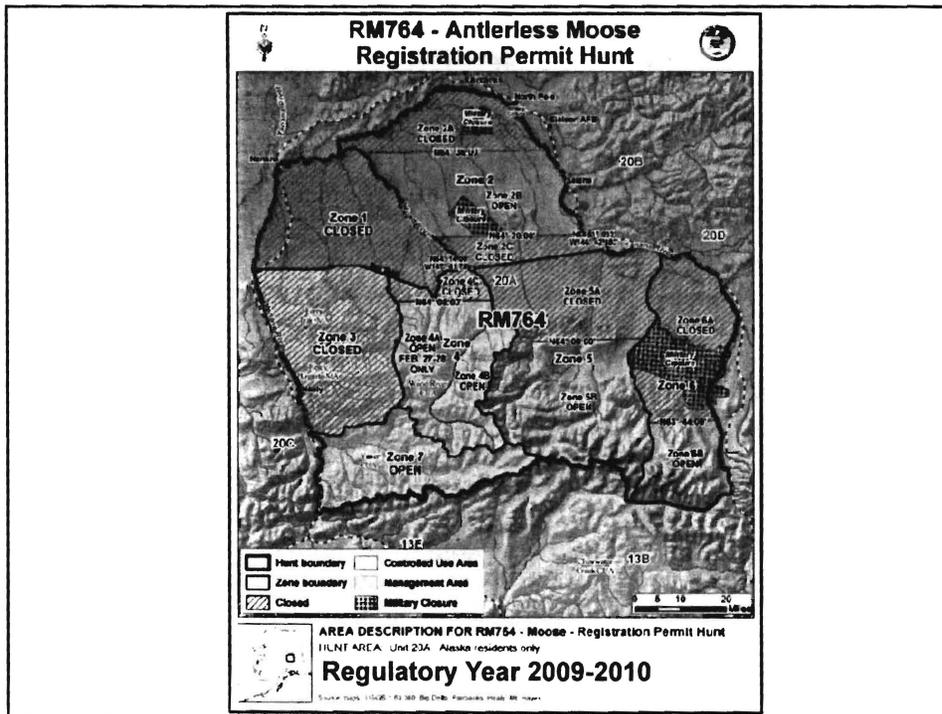
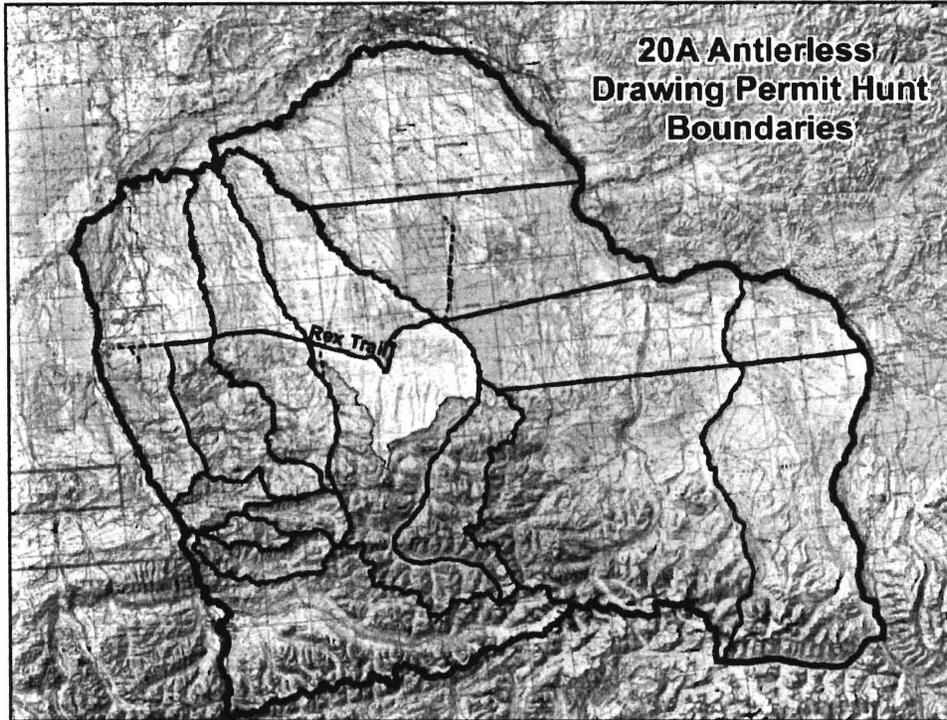
No Recommendation



Proposal 210 – Unit 20A Moose

RATIONALE:

- This issue is primarily one of conflict between aircraft and ATV users
- A portion of the WRCUA covered under this proposal was open to motorized access in the early 2000s after the Board passed a proposal by the Middle Nenana Fish and Game Advisory Committee. Within 2 years, that same committee proposed that vehicle restriction be reinstated in that area and the board accommodated their request
- Not supported by AWT as it would be difficult to enforce
- Opening the area to motorized access in September would likely increase the harvest of antlerless moose and help meet harvest objectives for that area (Zone 4). However, during September, antlerless hunts in this area are by drawing permit only, thus, increases in antlerless harvest would likely be modest



Proposal 210 – Unit 20A Controlled Use Area

EFFECT OF THE PROPOSAL:

**Move the northern boundary of the
Wood River controlled Use Area**

DEPARTMENT RECOMMENDATION:

No Recommendation

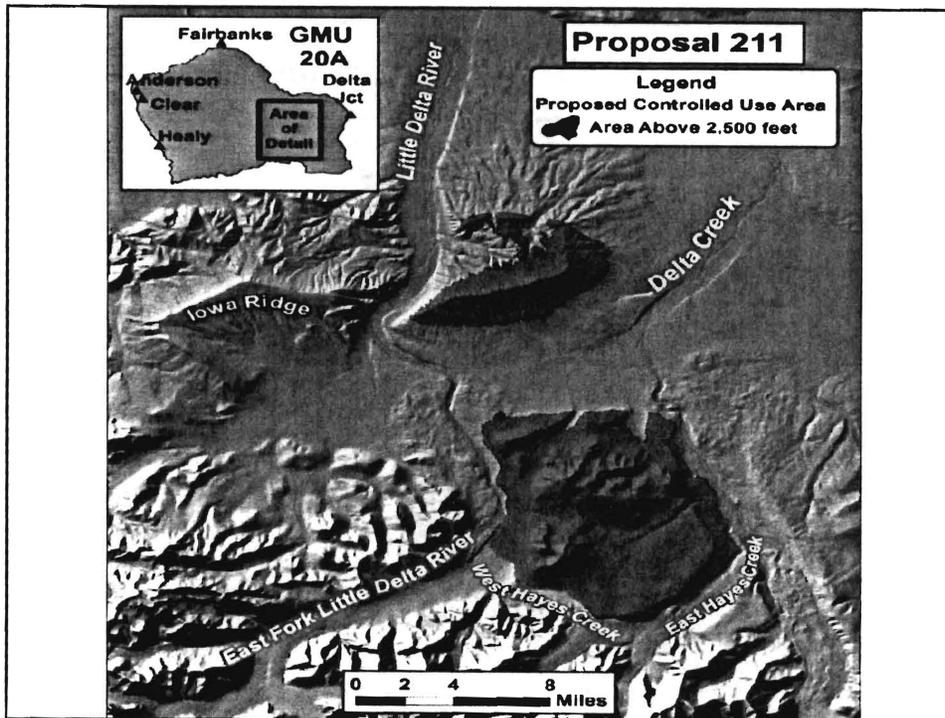
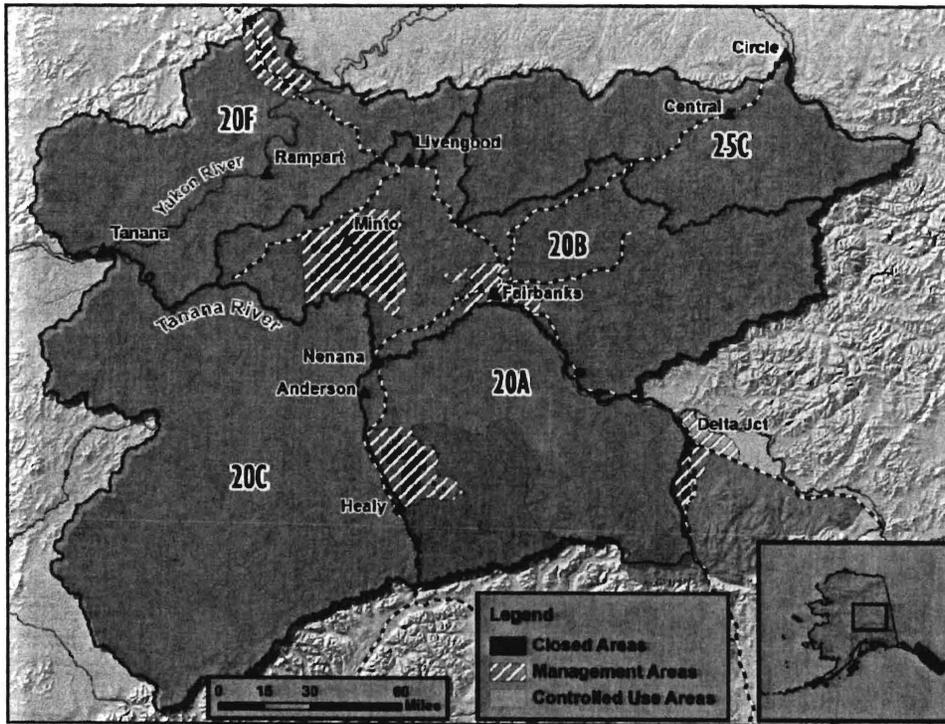
Proposal 211 – Unit 20A Controlled Use Area

EFFECT OF THE PROPOSAL:

**Establish a Controlled Use Area above
2500' in the eastern portion of Unit 20A**

DEPARTMENT RECOMMENDATION:

No Recommendation



Proposal 211 – Unit 20A Controlled Use Area

RATIONALE:

- This is an allocation issue
- Habitat and environmental degradation are land management issue under authority of both DNR and the Board of Game (5 AAC 92.004)
- 2500' boundary difficult for AWT to enforce
- Current game regulations are adequate to manage moose harvests in this portion of Unit 20A

Proposal 211 – Unit 20A Controlled Use Area

EFFECT OF THE PROPOSAL:

Establish a Controlled Use Area above 2500' in the eastern portion of Unit 20A

DEPARTMENT RECOMMENDATION:

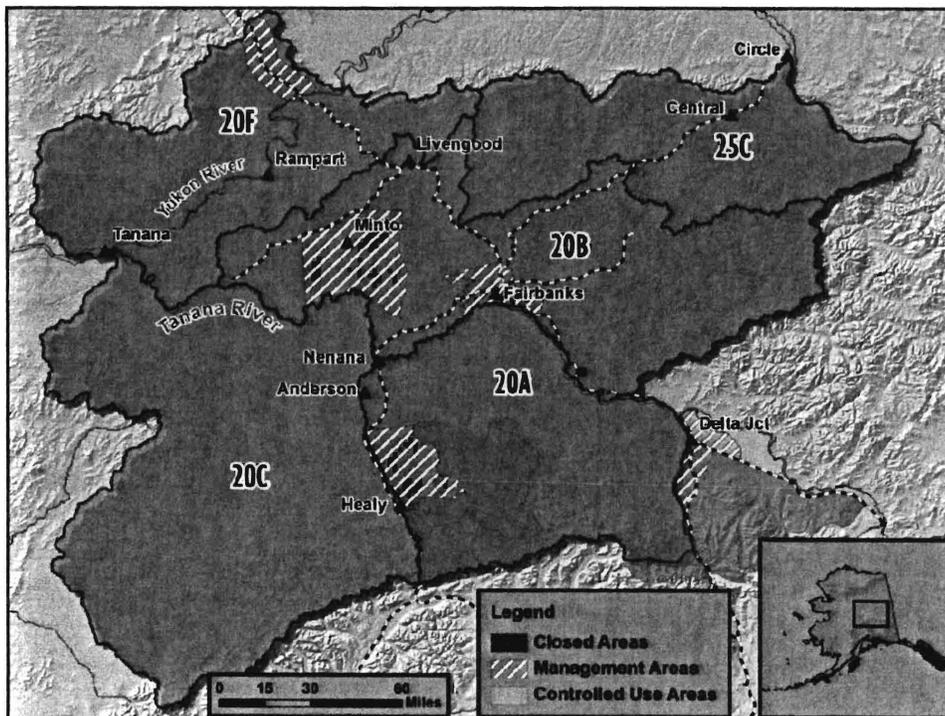
No Recommendation

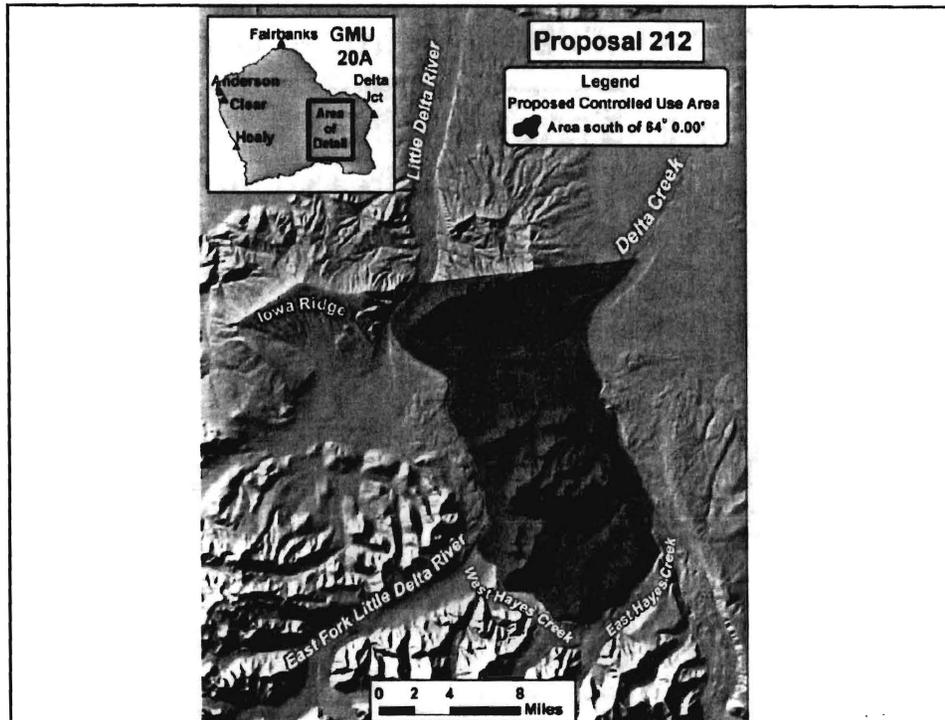
Proposal 212 – Unit 20A Controlled Use Area

EFFECT OF THE PROPOSAL:

Establish a Controlled Use Area south of 64° between Delta Creek and the East fork of the Little Delta River up to and including the west bank of Hayes Creek in the eastern portion of Unit 20A

DEPARTMENT RECOMMENDATION: No Recommendation





Proposal 212 – Unit 20A Controlled Use Area

RATIONALE:

- This is a user conflict issue
- Habitat and environmental degradation are land management issue under authority of both DNR and the Board of Game (5 AAC 92.004)
- Current game regulations are adequate to manage moose harvests in this portion of Unit 20A

Proposal 212 – Unit 20A Controlled Use Area

EFFECT OF THE PROPOSAL:

Establish a Controlled Use Area south of 64° between Delta Creek and the East fork of the Little Delta River up to and including the west bank of Hayes Creek in the eastern portion of Unit 20A

DEPARTMENT RECOMMENDATION: No Recommendation

Proposal 213– Unit 20A Controlled Use Area

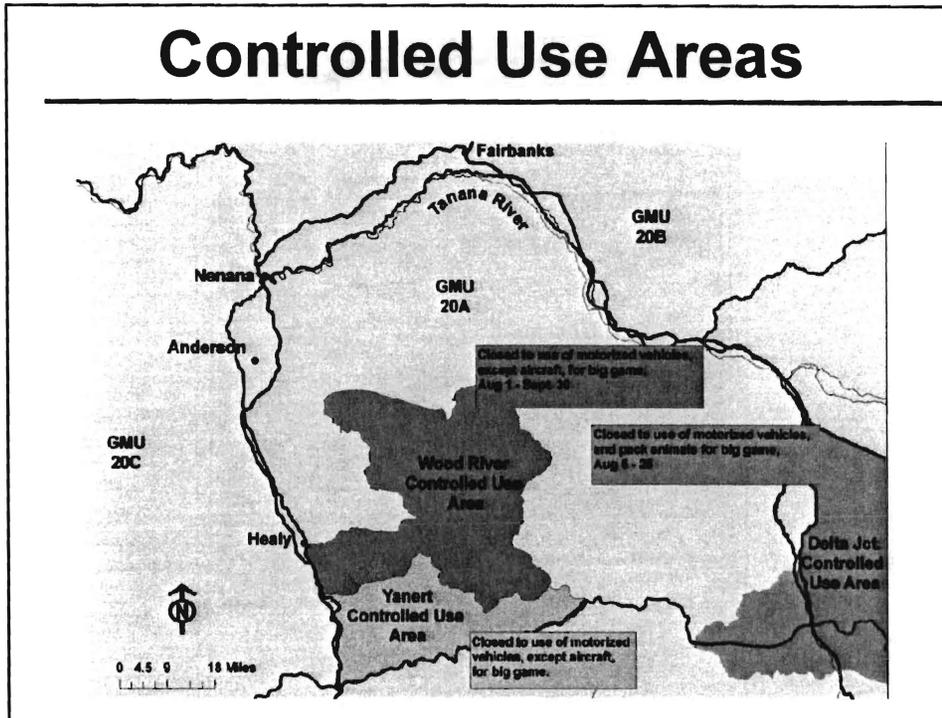
EFFECT OF THE PROPOSAL:

Allow motorized vehicle access for the taking of big game in the Yanert Controlled Use Area in Unit 20A October 1-July 31

DEPARTMENT RECOMMENDATION: No Recommendation

- **Fairbanks AC – Submitted proposal; currently not supported**
- **Middle Nenana River AC - Opposed**

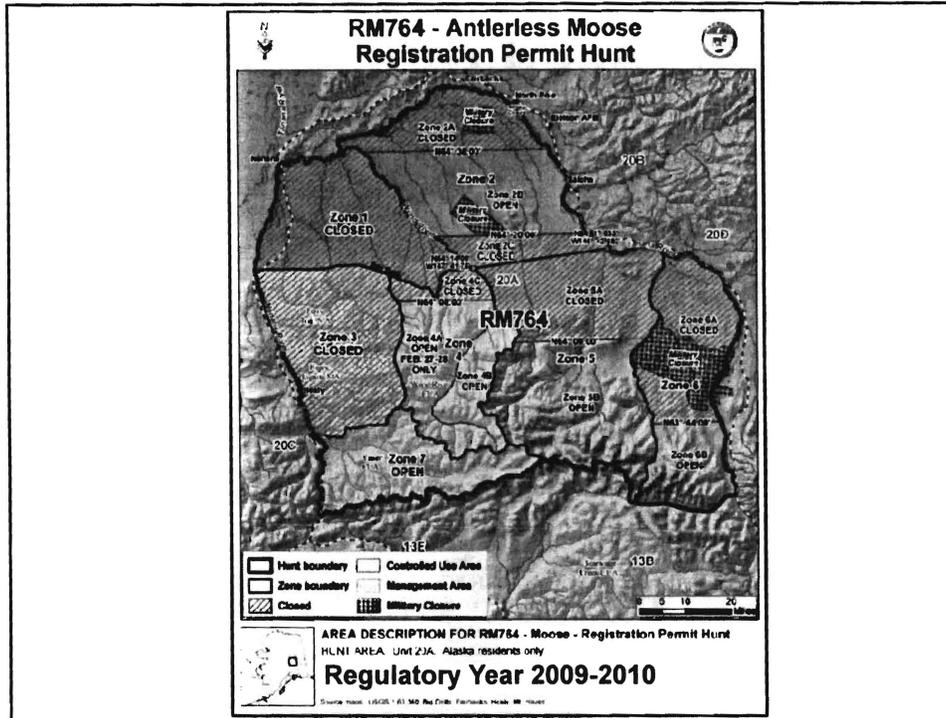
Controlled Use Areas



Proposal 213– Unit 20A Controlled Use Area

RATIONALE:

- This is an allocation/user conflict issue
- Provide motorized alternate location for November muzzleloader hunt (DM766, up to 75 permits); average annual harvest 15 bulls (range 8-25 bulls)
- Provide additional harvest of ~10-15 cow moose annually
- Align closure dates with Wood River Controlled Use Area



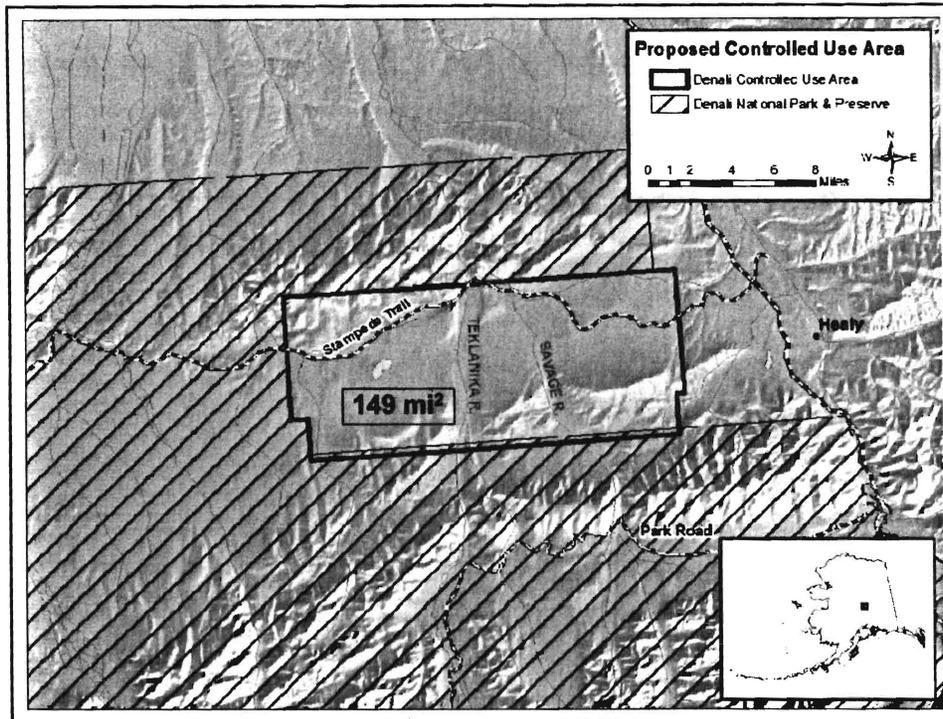
Proposal 213– Unit 20A Controlled Use Area

EFFECT OF THE PROPOSAL:

Allow motorized vehicle access for the taking of big game in the Yanert Controlled Use Area in Unit 20A October 1-July 31

DEPARTMENT RECOMMENDATION: No Recommendation

- Fairbanks AC – Submitted proposal; currently not supported
- Middle Nenana River AC - Opposed



Proposal 233 – Unit 20C Controlled Use Area

DEPARTMENT RECOMMENDATION: No Recommendation

RATIONALE:

- This is an user conflict issue
- Controlled use areas function primarily to address conflicts between groups that use different modes of transportation for hunting
- This proposal does not identify user conflicts that need to be addressed nor does it make recommendations regarding potential solutions
- It is not clear which species (e.g., caribou, moose, black bear, grizzly bear, wolves, wolverine, etc.), if any, are being impacted
- Additional information is needed to adequately evaluate this proposal

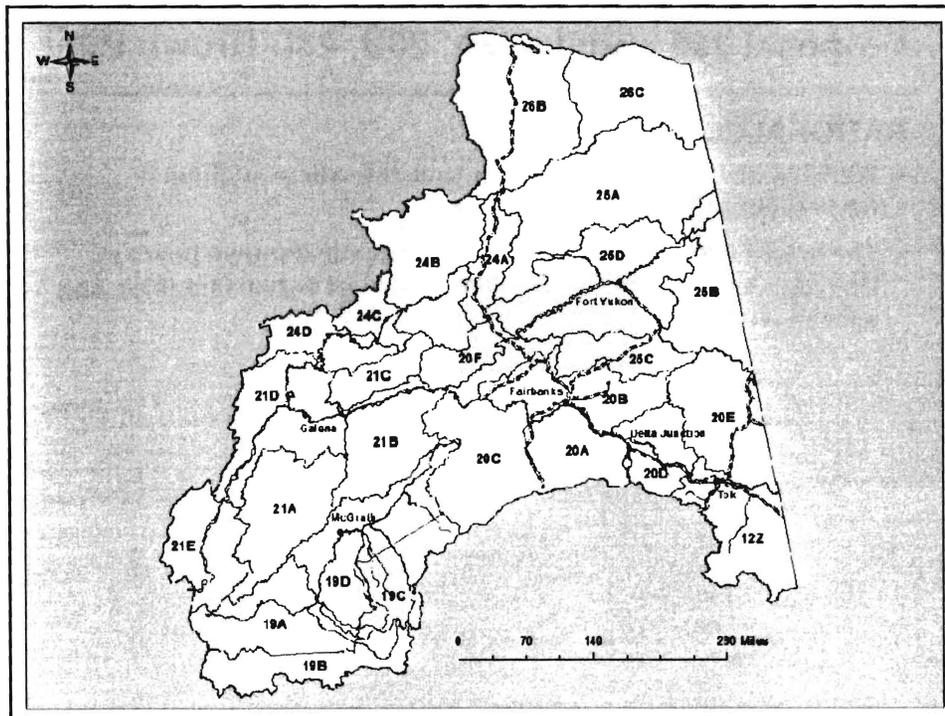
Proposal 236 – Units 20A, 20B, 25C Brown Bear

EFFECT OF THE PROPOSAL:

Allow limited harvest of brown bears at
black bear bait stations

DEPARTMENT RECOMMENDATION:

- Units 20A and 20B - Do Not Adopt
- Unit 25C - No Recommendation



Proposal 236 – Units 20A, 20B, 25C Brown Bear

RATIONALE:

- The department estimates 120–161 independent brown bears in Unit 20A, a sustainable harvest of 10–13 bears (8%), and a mean reported harvest of 23 bears (2008–2010)
- For Unit 20B, we estimate 57–127 independent brown bears, a maximum sustainable harvest of 4–10 bears (8%), and a mean reported harvest of 14 bears (2008–2010)
- Because harvests may have been exceeding estimated sustainable take in Units 20A and 20B and allowing brown bears to be taken over black bear bait stations would likely result in higher harvests, the department does not recommend allowing baiting of brown bears in these Units
- The current harvest is being closely monitored and more conservative seasons may be necessary

Proposal 236 – Units 20A, 20B, 25C Brown Bear

RATIONALE:

- We have no recommendation for Unit 25C where additional harvest could likely be sustainable
- The department estimates 66–133 independent brown bears in Unit 25C, a maximum sustainable harvest of 5–10 bears (8%), and a mean reported harvest of 6 bears (2008–2010).

Proposal 236 – Units 20A, 20B, 25C Brown Bear

RATIONALE:

- **The Fairbanks Non-Subsistence Area (FNSA) includes portions of the units addressed by this proposal.**
- **The Board has previously determined that there are not customary and traditional uses (C&T) of brown bears in Units 25C.**

Proposal 236 – Units 20A, 20B, 25C Brown Bear

RATIONALE:

- **The proponent recommends that the bag limit be restricted to 1 brown bear every four years.**
- **However, if this proposal is adopted, the Department recommends a 1 brown bear every regulatory year bag limit (i.e., the same as the general season bag limit in these units).**
- **We also recommend that brown bears be added to 5 AAC 92.044 (Permit for hunting black bear with the use of bait or scent lures) to allow us discretionary permit authority to closely monitor the harvest so the season can be closed by emergency order if necessary.**

Proposal 236 – Units 20A, 20B, 25C Brown Bear

DEPARTMENT RECOMMENDATION:

- **Units 20A and 20B - Do Not Adopt**
- **Unit 25C - No Recommendation**

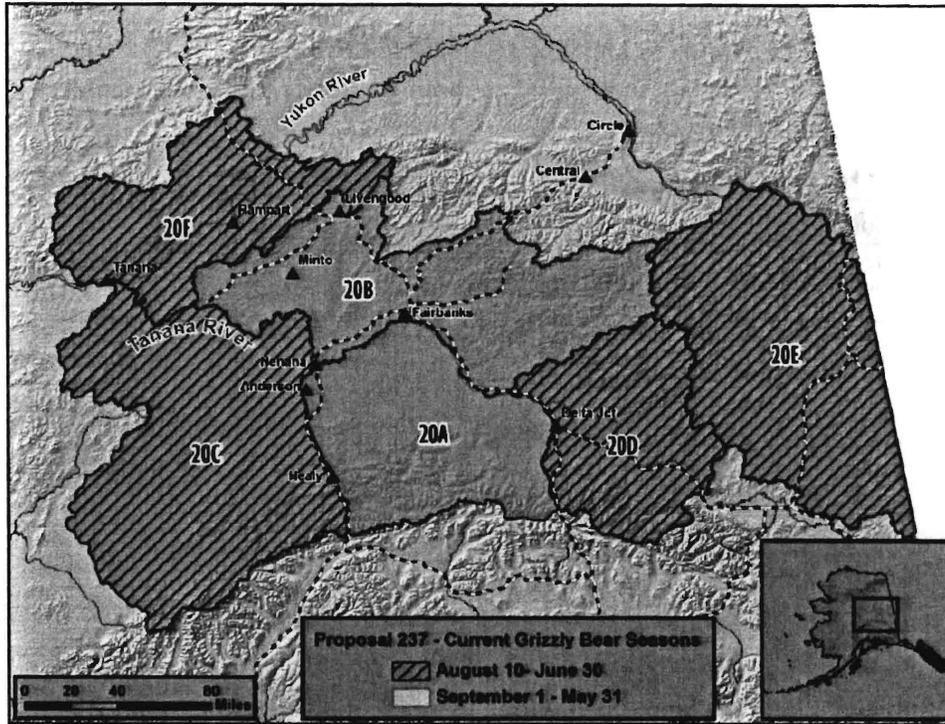
Proposal 237– Unit 20 Brown Bear

EFFECT OF THE PROPOSAL:

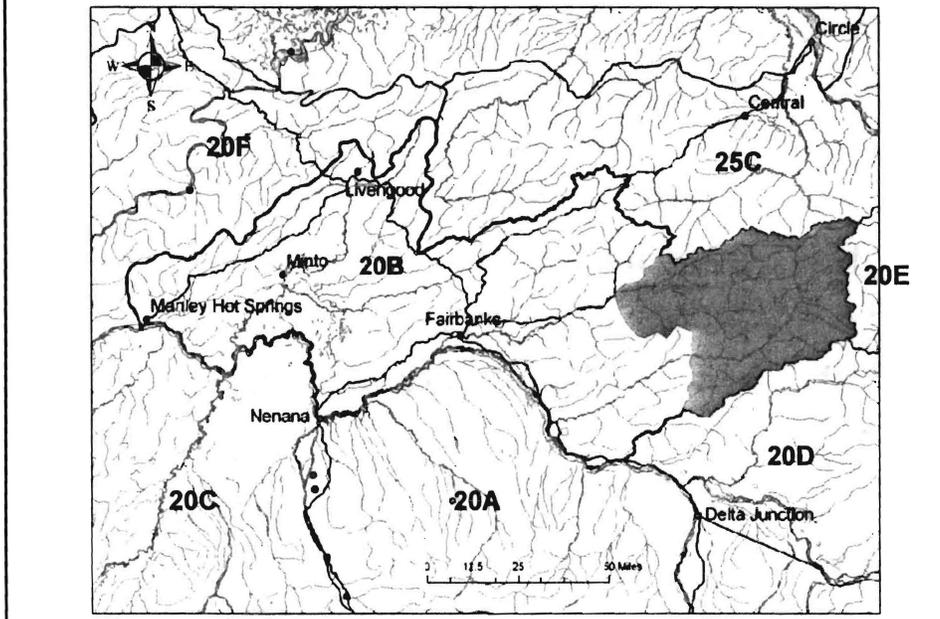
Align brown bear seasons in all of Unit 20 to August 10-June 30

DEPARTMENT RECOMMENDATION: Amend and Adopt:

- **Middle Fork of the Chena River and upper Salcha River drainages in Unit 20B: August 10–June 30**
- **Remainder of Unit 20B and Unit 20A: retain Sep 1 – May 31**



Proposal 237— Unit 20 Brown Bear



Proposal 237– Unit 20 Brown Bear

RATIONALE:

That portion of Unit 20B including the Middle Fork of the Chena River and upper Salcha River drainages

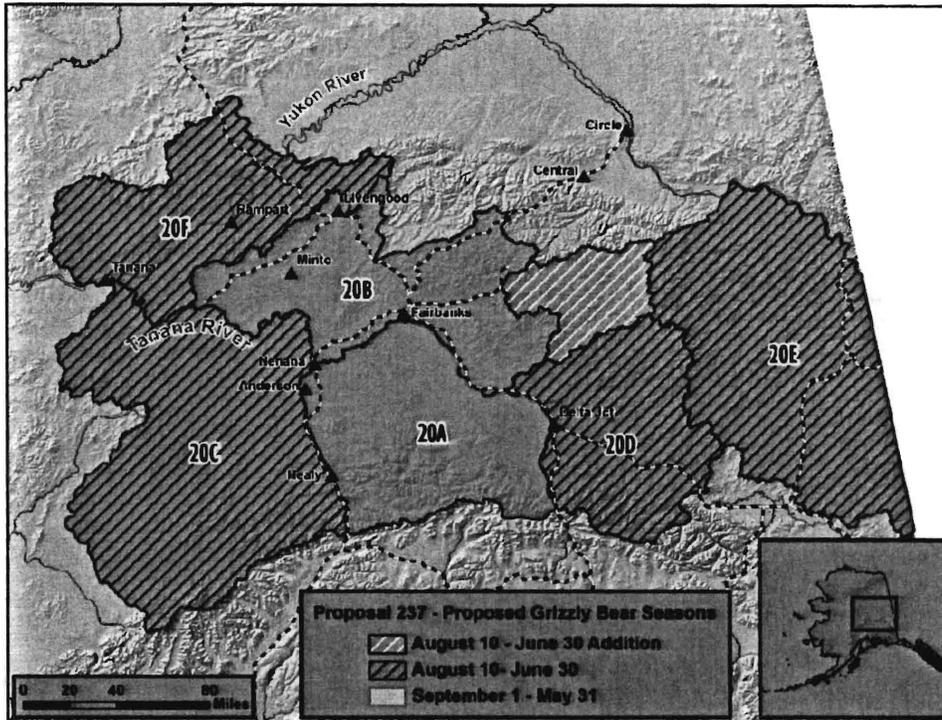
- Lengthen season from Sep 1-May 31 to Aug 10-June 30
- Area has poor access
- Low hunter densities
- Minimal risk of overharvest
- Align season with adjacent Units 20D and 20E

Proposal 237– Unit 20 Brown Bear

RATIONALE:

Remainder of Unit 20B and Unit 20A

- Retain Sep 1-May 31 season
- Area has good access
- High hunter densities
- Increased risk of overharvest
- Estimated sustainable harvests being exceeded



Proposal 237– Unit 20 Brown Bear

DEPARTMENT RECOMMENDATION: Amend and Adopt:

- Middle Fork of the Chena River and upper Salcha River drainages in Unit 20B:
August 10–June 30
- Remainder of Unit 20B and Unit 20A:
Sep 1 – May 31

RC 116

Hello,

My name is Ken Michaelis and I wanted to comment on Proposal 210.

I oppose this proposal based on the fact that there are plenty of air strips in those areas. The Tatlanika alone has 5 strips that I know of, St. George has 3 and Fish Creek has one. There is also access by foot and horseback. Plenty people are getting to that area including guides. I have been in that area for over 12 years now and enjoy it much more without motorize vehicle. Please Keep the Wood River Controlled Use Area intact.

Thanks,

Ken Michaelis

907-388-8251

kenmichaelis44@gmail.com

A handwritten signature in cursive script, appearing to read "Ken Michaelis".