

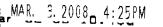
RCIIY

THIS IS A MILITARY LAND USE ISSUE AND INCLUDES A LIVE BOMBING RANGE FULL OF BOMB DEBRI AND TARGETS AS WELL AS NUMEROUS MILITARY TRAILS.

FBG CAN'T EVEN Meet THE (ZONE 5) ANTLERLESS MOOSE HARVEST QUOTA DUE TO OVER POPULATION OF MOOSE. THERE IS NOTHING RATIONAL ABOUT THIS PROPOSAL

Support As Ammended Close the area to all motorized vehicles "To keep this Bombing RANGE PRISTINE."

THANK YOU Abe HORSCHEL DELTA JCT. AK 9973 Re. Hort



P. 1 P. 1 907-822-41:NO. 7068

RCIIS

COMENTS ON PROPOSAL #86 My name is Robert Blake

I do not support this proposal

I have lived, hunted, fished, and trapped in this area for many years.

RECEIVED Min 0 3 2008 BOARDS This proposal would only help depress this small community further with little or no possibility of growth for the small business man, or prospect for the working family. I'm not saying this should be a trade off of wildlife for economics, but I feel the justification of this refuge is tainted by the special interests of the biologist that help put this all together!

There is the Paxson refuge not far from this area and not 2 years ago the Fish and Game biologist asked the Paxson game advisory board to vote on the disbandment of this refuge, saying there was no real need for it in this are and it was a finical burden on the department to keep signed and patrolled, and as a group we voted not to disband this area. In this I feel the request for this refuge is for the suppression of mining in the area, and not so much the protection of wildlife.

alle 134

PRINT TIME MAR. 2. 10:52AM

MAR. 3. 2008 4:25PM F&G BOARDS SUPPORT VO. 7068 Ρ 2 MAR 0 3 2008 BOARDS TO: Alaska Board of Game, Boards Support Section PO Box 115526 - Juneau, Alaska 99811-5526 FROM: Mary Jane Derendoff PO Box 84473 - Fairbanks, Alaska 99708 DATE: 25 February 2008 SUBJECT: PROPOSAL #94

I very much oppose the Proposal #94. Please do not eliminate the Koyukuk Controlled Use Area in Unit 21 and 24. And especially do not allow aircraft to fly in to this area for moose hunting. I don't want the moose to become extinct like what happened to the buffalo. It's bad enough that – people with high powered boats go and hunt the moose. This leaves village residents who rely on moose for subsistence and traditional life style to compete –most of the time unsuccessfullywith folks that have the money to hunt. People in the village barely can afford the gas prices. I strongly oppose allowing aircraft to hunt moose.

I hope this letter counts for something and is not mailed in vain.

Any questions from me please feel free to contact me. Thank you.



ATTN: BOG COMMENTS Alaska Dept. of Fish and Game Boards Support Section PO Box 115526 Juneau, AK 99811-5526

MAR 8 3 2008 BOARDS

RE: Proposal 86

Members of the Board of Game:

Please accept these brief comment, on behalf of the non-profit organization Cascadia Wildlands Project, as well as myself as an individual Alaska resident, and my family, in support of Proposal #86. We would very much like to see a Tangle Lakes Wildlife Refuge established. I'd like to ensure that my newborn daughter has the same opportunities there, that my wife and I have enjoyed.

As a family we have had several experiences with Tangle Lakes. My wife grew up in Anchorage, and remembers visiting it as a child. We live today in Cordova, well downstream of that place, but have still found a couple occasions to visit when we were camping upriver. I recall bringing a friend, a photographer, who was visiting from Outside, there, and I remember how excited he was with the spectacular scenery. We have friends upriver who hunt the caribou

herd there, and know through them how truly irreplaceable that subsistence tradition is. This is important so it bears repeating: the wildland values of Tangle Lakes are <u>irreplaceable</u>.

There are other sources of minerals, other jobs, and even other caribou herds. But there is only one Tangle Lakes.

Tangle Lakes is on the outside margins of the geographic area where Cascadia, a non-profit conservation organization, normally takes active interest. We are more coastal, and the proposed wildlife refuge is well upstream. However, Tangle Lakes is one of those unique, special places

and especially the wildlife habitat for the caribou, as one of the most productive biological systems in our bioregion. These systems are all interconnected.0 From a conservation perspective, a wildlife refuge at Tangle Lakes is a no-brainer.

Please take your service to future generations seriously. Please protect Tangle Lakes.

Sincerely, abriel Scott

42



ATTN: BOG COMMENTS Alaska Department of Fish and Game Boards Support Section P.O. Box 115526 Juneau, AK 99811-5526 Fax: 907-465-6094 NO. 7068 P. 6 RECEIVED FEB 2 9 2008

BOARDS

29 February 2008

Alaska Board of Game Members:

I strongly support proposal number 86 to create a state wildlife refuge in the area of the Tangle Lakes. This is a bountiful and beautiful area, one used for hunting for many centuries by humans, dating back to early inhabitants of this region. It is an important portion of the range of the caribou who frequent this and nearby regions. My family and I have enjoyed this area for nearly 30 years. We have utilized the Tangle Lakes and surrounding locales for hunting, wildlife viewing, photography, and fishing, as well as for canoeing and berry picking.

The area around the Tangle Lakes continues to be an important resource to the inhabitants of this area, as it has been, judging by the archeological record, for millennia. It is highly deserving of the designation of Tangle Lakes State Wildlife Refuge.

Thank you for your attention in this matter.

and T- welling

David T. Wellman HC60 Box 227 Copper Center, AK 99573 (907) 822-3418

#### RECEIVED TIME FEB. 29. 4:23PM

#### RC119

Dear Alaska Board of Game,

I would like to thank you for the opportunities of big game cold-weather hunting and encourage the board to keep or widen the use for other lunters because of the positive experiences I have had this winter while hunting moose and bison. The ability to properly care for the meat both while in the field and by properly aging it in a cooled environment (our garage) has made the prize (great tasting, tender meat) a real treat for the family. It has also allowed the fun of the hunt to be extended as family members (my three sons 11, 9, and 6) and hunting partners and their kids gather around to be part of the whole processing experience (making humburger, pepperoni, jerky etc.). Having the time to do this in the Fall is difficult if not impossible to do because of the many fall activities competing for my time such as great rainbow and salmon fishing; taking family to the fair, start of school, winterizing boats/RV's etc.

In short-- no meat flies, no heat spoiled meat, better tasting properly aged meat and time to enjoy the experience with family and friends are some of the benefits we have had from a cold weather hunt.

Thanks again for the opportunity.

Sincerely,

Doug Ohms Anchorage 345-2477

RC 1/20



#### DON KIELY

12 February 2008

ATTN: Board of Game Comments Alaska Department of Fish and Game Boards Support Section P.O. Box 115526 Juneau, Alaska 99811-5526 Fax: (907) 465-6094

Re: Proposal 86 Tangle Lakes State Wildlife Refuge

I am writing to urge the Board to support the proposal to create a Tangle Lakes State Wildlife Refuge. That area is a valuable resource for both recreation and wildlife, and a wildlife refuge would provide additional protection for the Nelchina caribou herd as well as the area's extensive wildlife.

I am an Alaskan living in Fairbanks and use the area extensively for boating and hiking, and value the area for its habitat for caribou and other wildlife.

PLEASE create the Tangle Lakes State Wildlife Refuge!

Sincerely, Don Kiely

P.O. BOX 63830 • FAIRBANKS, ALASKA • 99708 PHONE: (907) 455-6749 • donkiely@computer.org

RECEIVED TIME FEB. 12. 9:26PM

PRINT TIME FEB. 12. 9:27PM

RC 12/

#### Alaska Board of Game Region III Meeting Feb. 29 - March10, 2008

#### Sleetmute Traditional Council Proposal Comments

**Proposals 8, 9, 83, 99, 100, 103, 105, 112, 137, 138 - Supported.** The Sleetmute Traditional Council, (STC), supports proposals that encourage and increase the harvest of predators, due to the decline in moose stocks in GMU 19, and many other areas of the state. When advisory committees in an area sponsor these sort of proposals or proposals to start new comprehensive predator management plans, it is evident that predator management is needed there and STC supports them.

**Proposals 101 & 104 - Supported.** These proposals are to extend the 2 predator management programs for several years- in GMU 19 A, and 19D. These programs are working, but need more time.

**Proposals 102, 106, &113 – Opposed.** These proposals are attempts to terminate 3 predator management programs. These programs <u>are</u> effective and require more time. The state went through a long period with NO predator control for 11 or 12 years. It is unrealistic to expect there to be a large harvestable surplus in so short a time period

- All 3 claim they have not been effective in increasing moose harvest. In Prop 102, (19A), a closure and Tier II have been put in place. How could hunter harvest possibly have increased there??
- Also claimed is that these programs are too expensive. They are not when compared to what it would cost if the ban initiative were passed, and ADF&G personnel were required to do it!

**Proposals 12 & 14 ~ Opposed.** Both of these proposals eliminate antler restrictions and lengthen the moose season in 19B. The sponsor of Proposal 14 didn't get a moose. If these hunters are having trouble getting spike/fork moos in 19B, it is evident that the 19A moose closure needs to be extended into 19, as STC testified when it made the 19A/B closure proposal 2 years ago. There is no recent information on population density and composition in 19B. Keeping the spike/fork restriction is necessary to insure that some moose are left for recruitment.

**Proposal 13 - Supported.** (See STC comments on 12 and 14.) This Central Kuskokwim Advisory Committee, (CKAC), proposal speaks for itself, and is also supported by the comments made by the Stony Holitna Advisory Committee, (SHAC). This is what STC **Proposal 64** addressed at the Spring, 2006 BOG meeting 2 years ago.

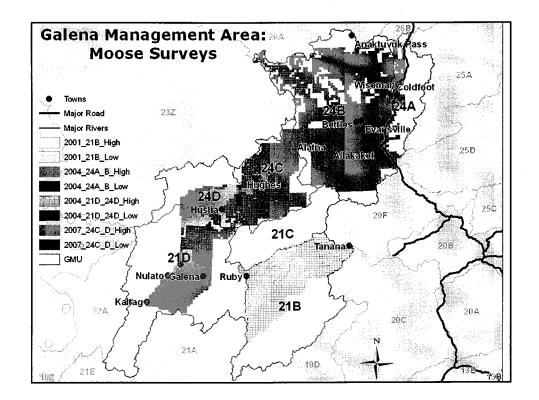
#### RECEIVED TIME FEB. 12. 12:33PM

**Proposal 87 – Supported.** The Holitna-Hoholitna Controlled Use Area is definitely NOT "a frivolous regulation" as its sponsor said. Hunters who live outside of 19A The people living within 19A use much smaller outboard motors for their transportation and hunting due to cost of larger motors, cost of fuel, and lack of jobs and income in the area. There is also no commercial fishing in 19A.

The SHAC comments on this proposal list most of the reasons the 40 hp limit was imposed in the first place.

Making a proposal like this - that would increase the amount of hunting pressure at the present time - when the resource is depleted to the point it is now - would work in opposition to moose population recovery.

#### RECEIVED TIME FEB. 12. 12:33PM



C122

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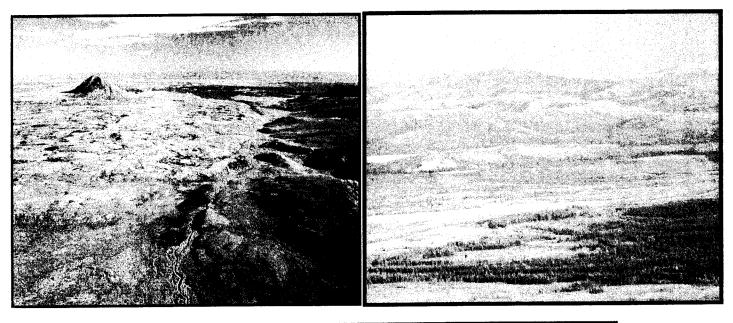
#### **PredPrey Input Values (Unit 24)** Number Grizzly Bears: 950 2,400 (@ 1 bear/10 mi.<sup>2</sup>) **Number Black Bears: PredPrey Input Values (Unit 21D)** Number Grizzly Bears: 200 **Number Black Bears:** 1,700 (@ 1 bear/7 mi.<sup>2</sup>) 1,800 (@ 1 bear/7 mi.<sup>2</sup>) 21B/C: **Harvest Rates and Sustainable Harvest** GMU24 @ 6-12% harv. rate = 144-288 black bears/year (est. harv. less than 80 black bears) GMU21D a 6-12% harv. rate = 100-200 black bears/year (est. harvest less than 50 black bears) GMU's 21B/21C (a) 6-12% harv. rate = 100-200 black bears/year

(est. harvest less than 25 black bears)

290 42080		Koyukuk-Middle Yukon census subarea		3,109
290	99999	6070	Allakaket *	133
290	53162	9999	New Allakaket CDP	36
290	1860	9999	Allakaket city	97
290	1305	6040	Alatna CDP *	35
290	99999	6490	Evansville *	71
290	6630	9999	Bettles city	43
290	23790	9999	Evansville CDP	28
290	16630	9999	Coldfoot CDP	13
290	26835	9999	Four Mile Road CDP	38
290	27530	6525	Galena city *	675
290	33910	6605	Hughes city *	78
290	34350	6610	Huslia city *	293
290	37430	6690	Kaltag city *	230
290	42050	6830	Koyukuk city *	101
290	56350	7130	Nulato city *	336
290	65590	7310	Ruby city *	188
290	75160	7540	Tanana city *	308
290	85610	9999	Wiseman CDP	21
290	99999	9999	Remainder of Koyukuk-Middle Yukc	385

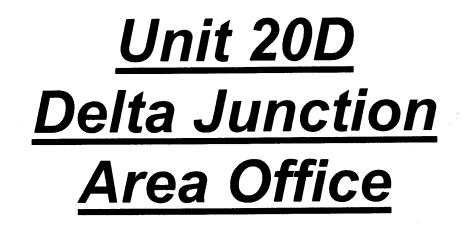


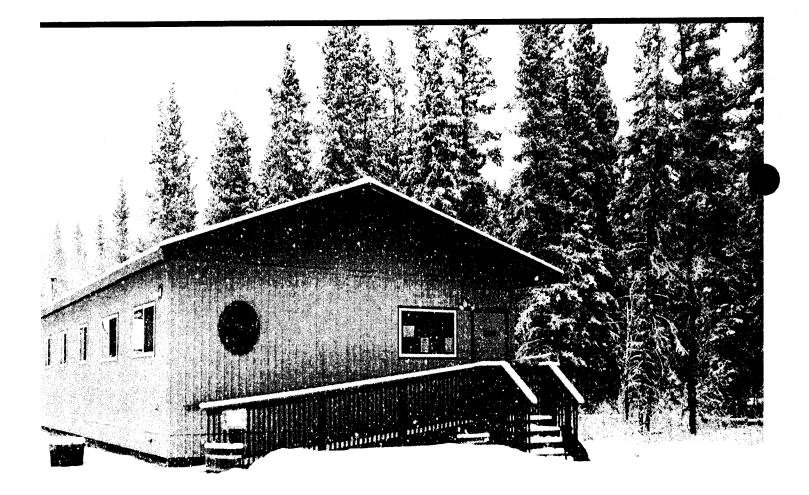
# RC123 2008 Unit 20D





# State of the Unit Address







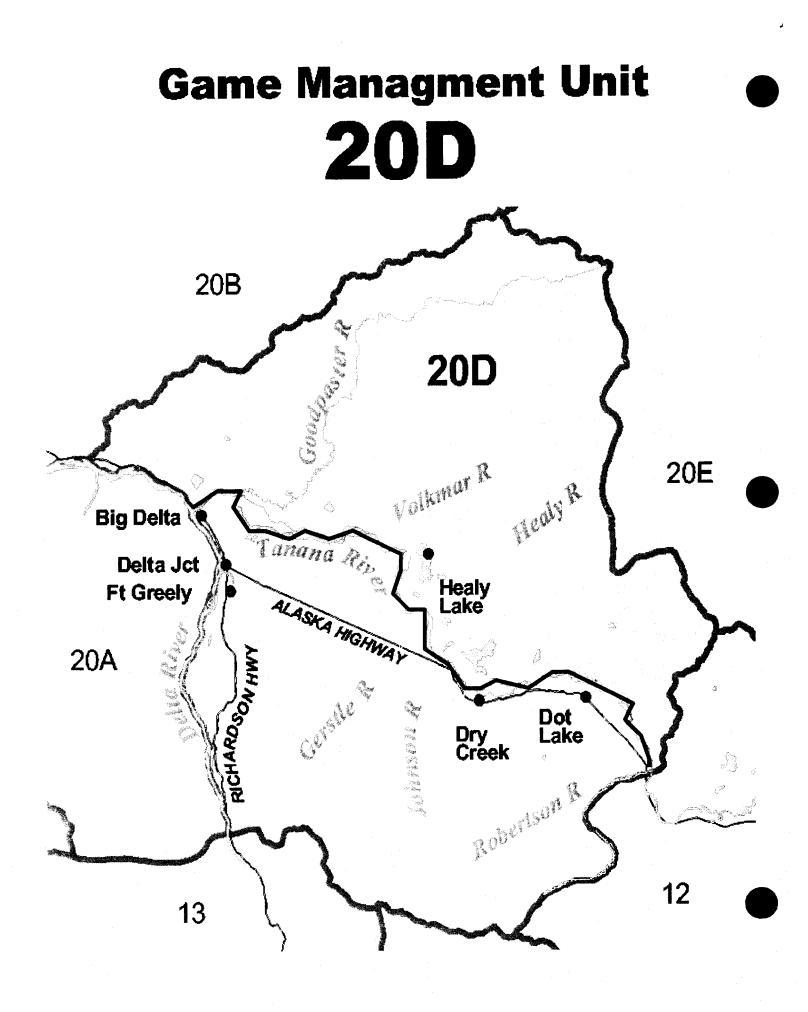


### Steve DuBois, Area Biologist

#### Ron Riesgaard, PS FWT 4, Bison Range Manager



#### Dave Davenport, PS FWT 3



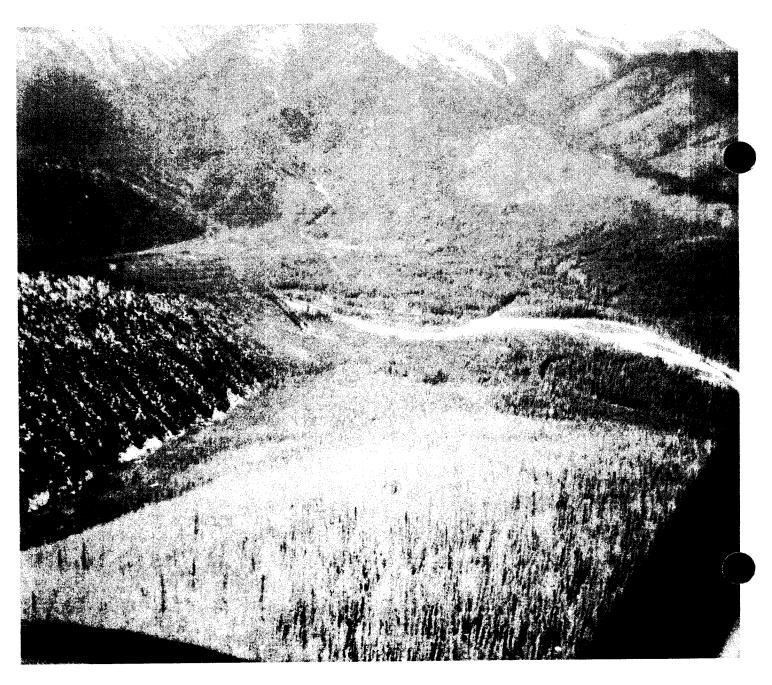
# Southern Unit 20D

- Mountains of eastern Alaska Range
- Lowlands of Tanana Rv valley

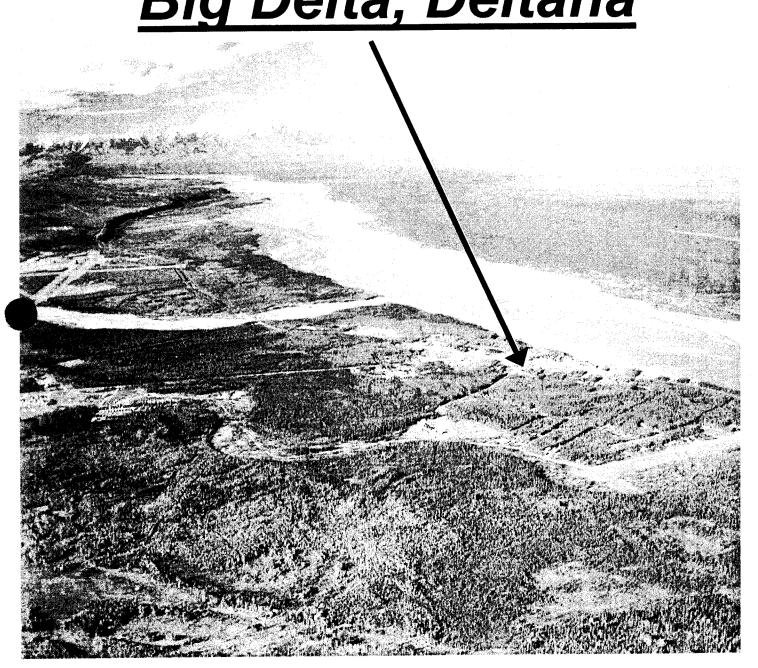


# Northern Unit 20D

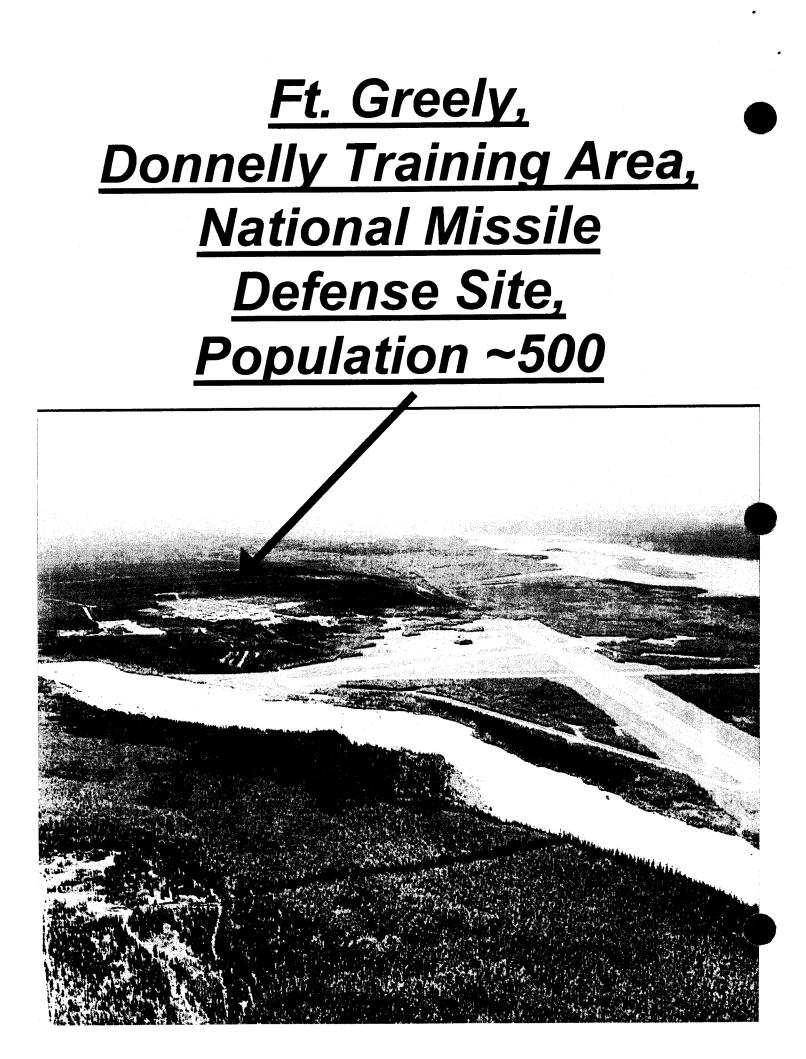
- Hills of Tanana uplands
- Lowlands of major river valleys

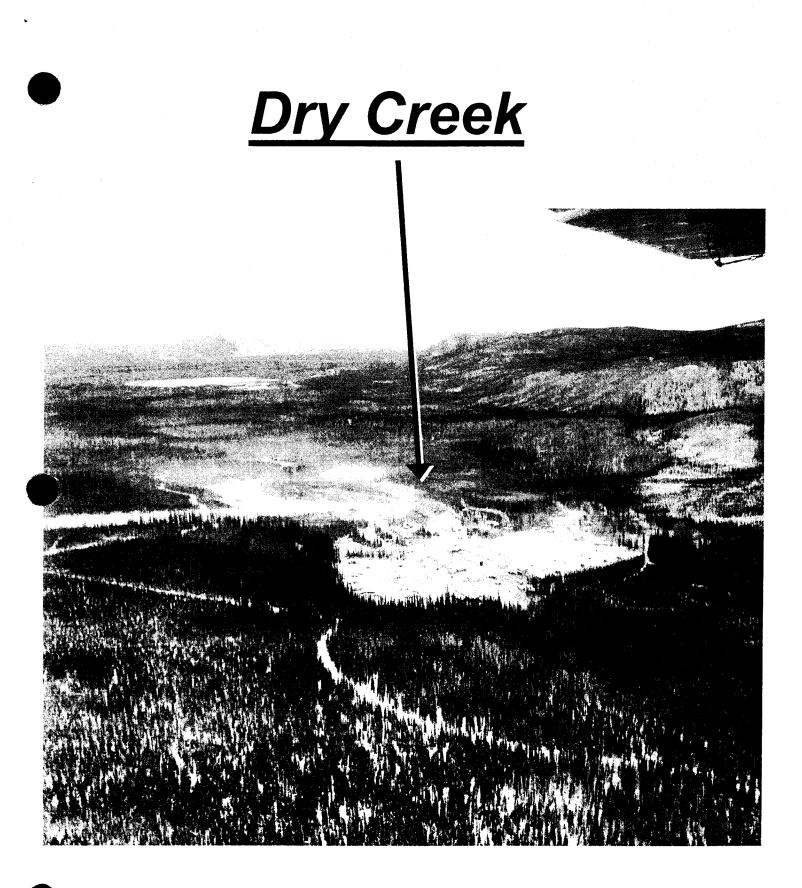




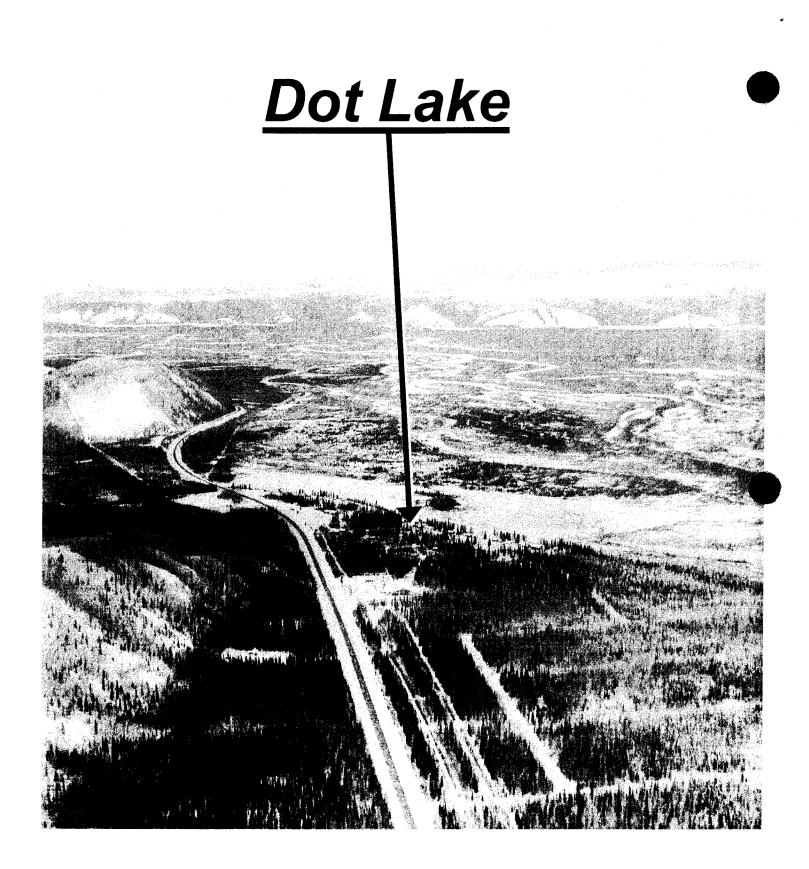


### Population ~3,200





### Population ~100

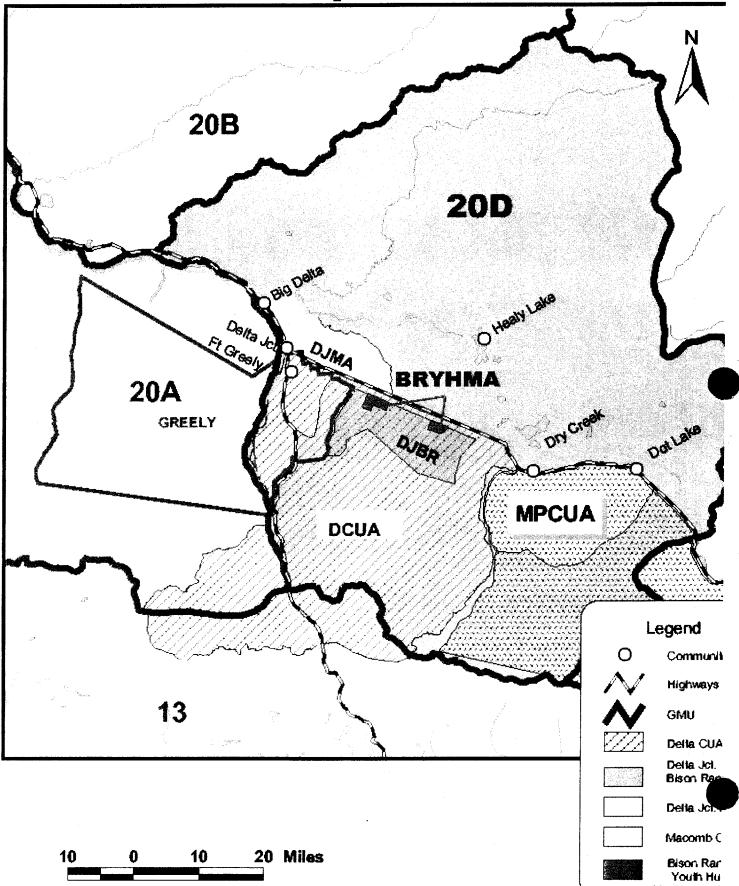


### Population ~80





### GMU 20D Special Use Areas

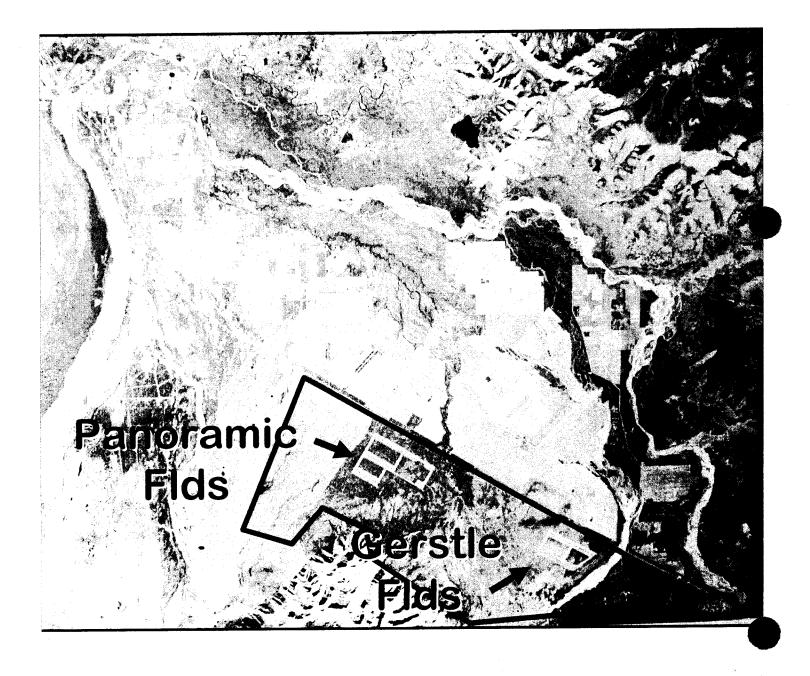


# <u>Delta Junction Bison</u>

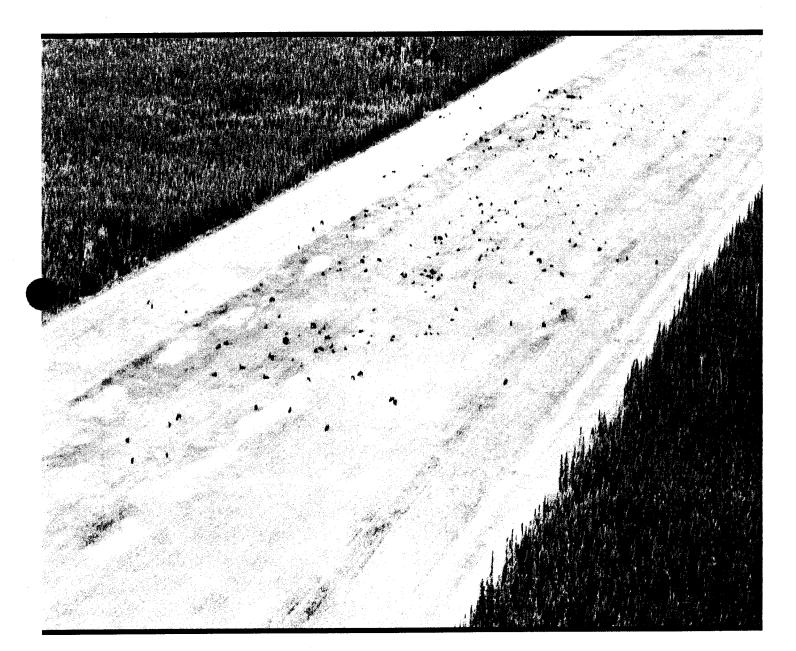
### <u>Range</u>

- Created 1979 by AK legislature to:
  - Perpetuate free-ranging bison
  - Diminish agricultural damage from bison
- ~90,000 acres
- ~2,700 acres bison forage

# <u>Delta Junction Bison</u> <u>Range</u>



# <u>Delta Junction Bison</u> <u>Range</u>



# 322 bison in Panoramic Fields

# <u>Delta Junction Bison</u> <u>Range</u>

# <u>Ruffed Grouse Habitat</u> <u>Management Area</u>



# Delta Junction Bison Range

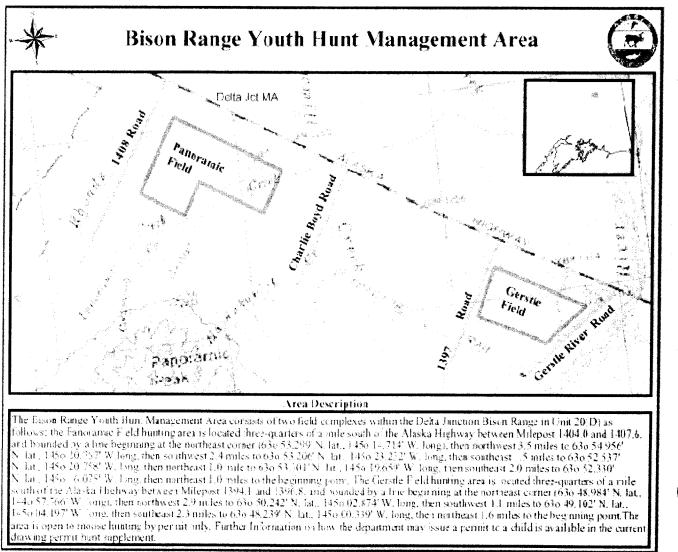
 Multiple use when compatible: hunting, fishing, camping, trapping, logging

 Muzzleloader Rendezvous



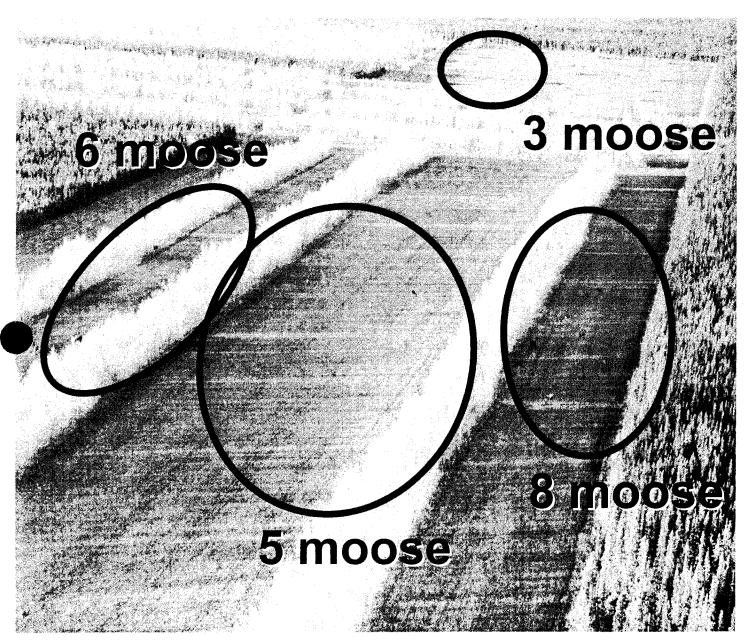
# Bison Range Youth Hunt Management Area

- BRYHMA estab. 2002 in DJBR fields
- 6,380 acres in fields only



a ngana dari nangarawa 16 maganangana saka saka sa 1931. Angangan

# <u>DBH; BRYHMA</u>



#### With bison forage management, more moose & hunters were attracted to the fields

- Goals were to:
  - 1) Improve ADFG's ability to meet
    - DJBR legislative mandates
    - Bison Management
       Plan objectives

–2) Benefit farmers by improving bison use of DJBR

 Objectives (cont.)

 -3) Reduce damage to bison forage crops from moose hunters

–4) Provide safer work environment for ADFG staff

5) Provide opportunity for youth hunters to be introduced to moose hunting with high opportunity for success.

- 10 draw permits for SF50 bull moose or cow w/o calf
- Hunting season = Sept 1-30
- Hunt Friday-Monday 1<sup>st</sup>
   three weekends in Sept.

-Each hunter has 4 days

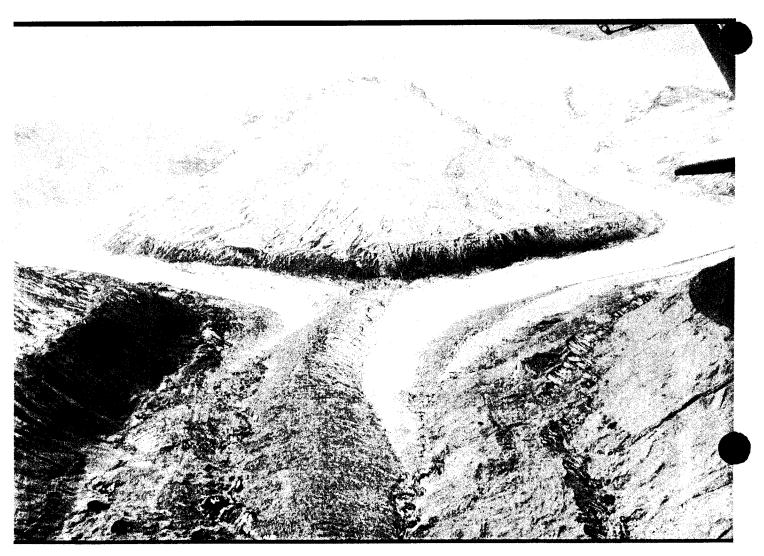
- Hunters assigned weekend and field
- No motorized vehicles

- BRYHMA hunt is meeting objectives:
  - Reduction in bison forage damage
  - Improved workplace safety resulting in more field work
    - Bison increased use of fields
       & less time on farms during
       moose hunting season
    - –Youth hunt successful
      - 2007 = 70% success

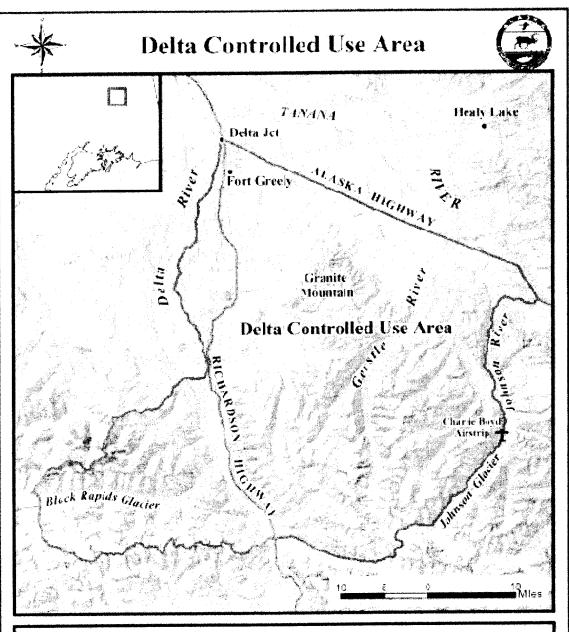
## <u>Delta Controlled Use</u> Area

### Estab. 1971 to meet sheep hunter desire for a walk-in hunting area

1,680 mi<sup>2</sup> in 20D, 20A, & 13B



# DCUA map



#### Area Description

The Delta Controlled Use Area consists of those portions of Units 13(B), 20(A), and 20(D) beginning at the confluence of Miller Creek and the Delta River then west to VABM Miller, then west to include all drainages of Augustina Creek and Black Rapids Glacier, then north and east to include all drainages of McGianis Creek to its confluence with the Delta River, then east in a straight line across the Delta River to the east bark of the Delta River, then north allog the cast bank to a point opposite the intersection of the Alaska and Richardson Highways, then east in a straight line to the intersection of the Alaska and Richardson Highways, then east along the Maska Highway to the west bank of the Johnson River, then south along the west bank of the Johnson River and Johnson Glacier to the head of the Canwell Glacier, then west along the use the bank of the Canwell Glacier, then south along the worth bank of the Canwell Glacier and Miller Creek to the Delta River.

# <u>Delta CUA</u>

Management goal:

#### -<u>Provide</u>:

- Uncrowded hunting
- Walk-in hunting
- By managing hunter numbers, access, & transportation

#### – <u>Harvest objective</u>:

 Harvest 35 full-curl rams/yr with mean horn length 36 in. & 8+ yrs old

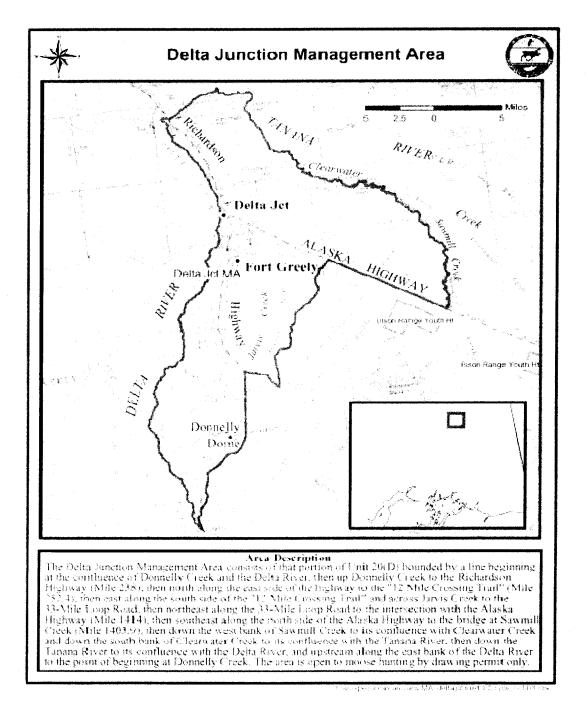
#### <u>Delta CUA</u>

- DCUA is hunt is conducted as 2 drawing permit hunts
- DS203 = Aug 10 25

   Nonmotorized
- DS204 = Aug 26 Sept 20
   Unrestricted access
- 2007 harvest
   DS203 = 21
   DS204 = 29

# <u>Delta Junction</u> Management Area

#### 278 mi<sup>2</sup> around Delta Jct

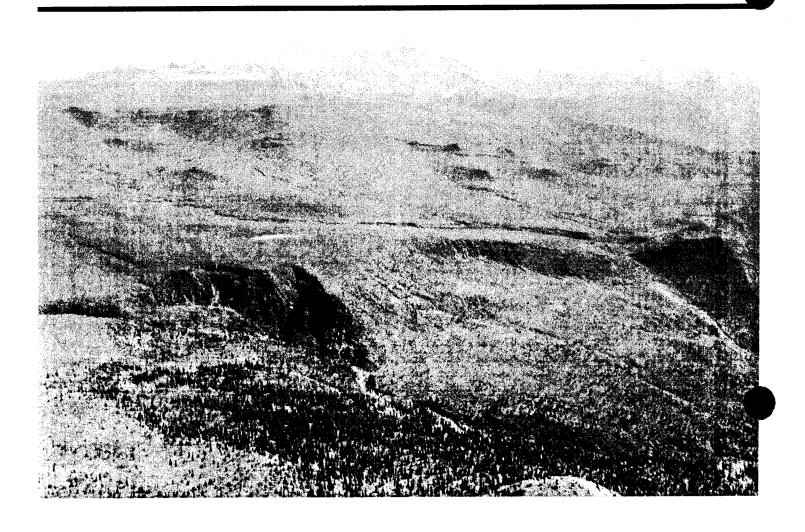


# <u>Delta Junction</u> Management Area

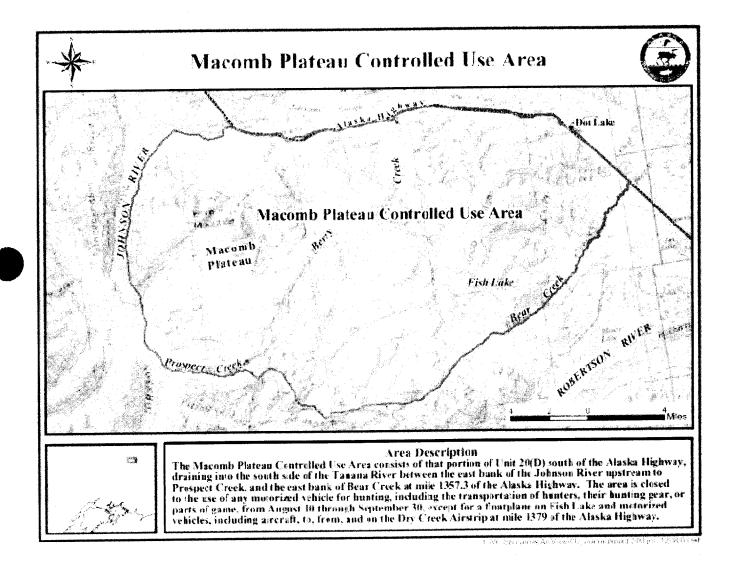
- Estab. 1974 at request of Delta AC to close hunting around Delta Jct. when moose low
  - Delta Junction Closed Area
- Reduced in size in 1991
- Renamed DJMA in 1996
  - First issued drawing permits
  - 10 permits for SF50 bull moose
- 2007 harvest = 6

# <u>Macomb Plateau</u> Controlled Use Area

- Created 1974 to:
  - Protect critical MCH habitat by restricting motorized vehicles from Aug 10-Sep 30
  - Regulate MCH harvest
- 304 mi<sup>2</sup>



# MPCUA



### Macomb Plateau CUA

- Meeting objectives to:

   Prevent habitat
   degradation from
   motorized vehicles
  - -Control harvest

–Provide nonmotorized hunting opportunity



#### ~100,000 acre (156 mi<sup>2</sup>) Hunting for bison (70%), waterfowl, sharp-tailed grouse, moose



# Delta Fish and Game Advisory Committee

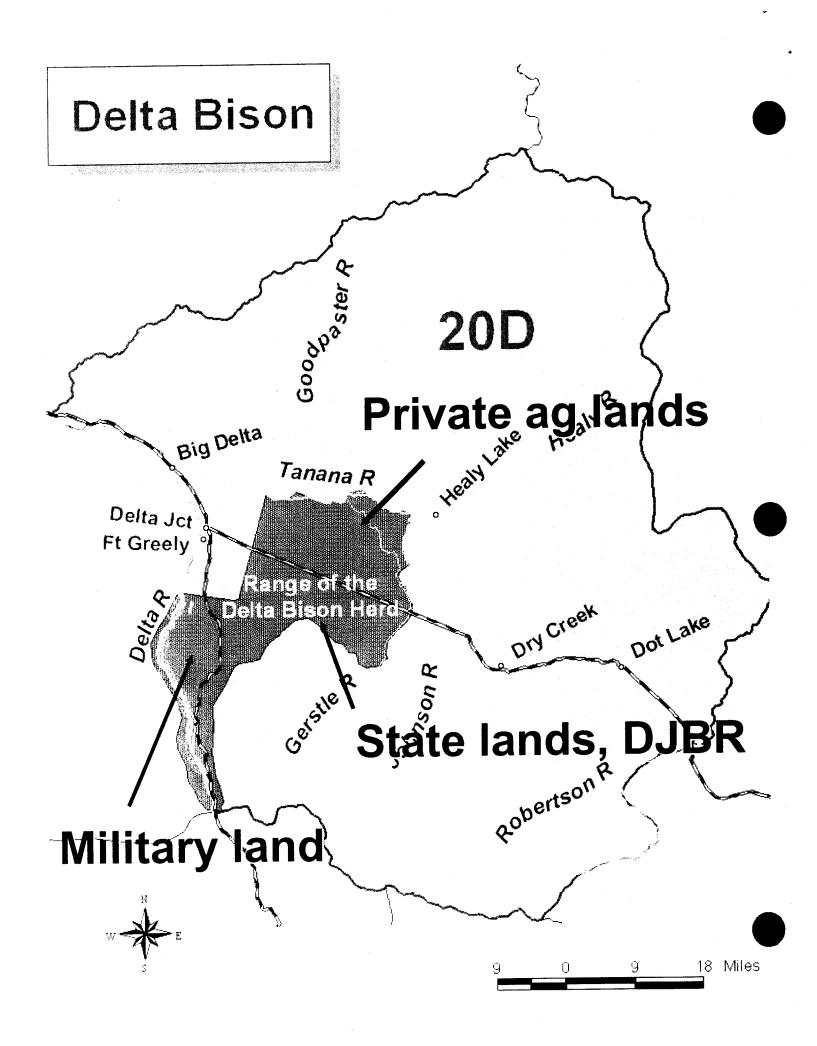
- Delta AC serves Delta Jct.
   & Dry Ck.
- Dot Lk. & Healy Lk. served by Upper Tanana Fortymile AC



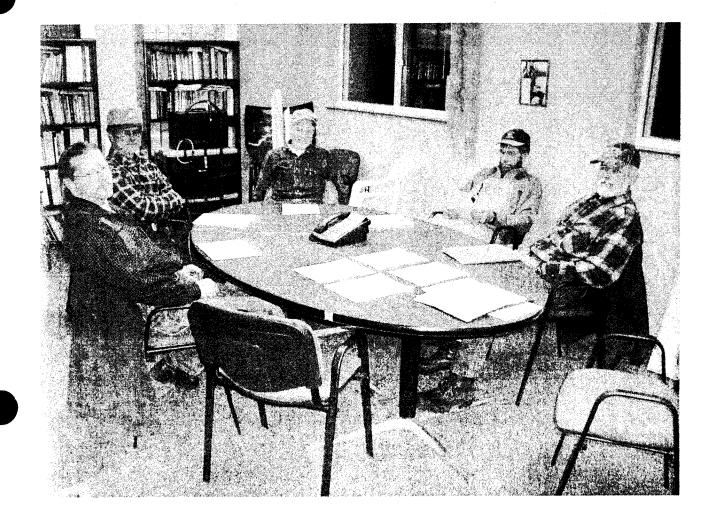
#### **Delta Bison Herd**



#### Herd ranges in SW 20D



 Management based on plan developed with Delta Bison Working Group
 Approved by Board



- DJBR managed to reduce bison-agriculture conflicts
- Herd size managed by drawing permit hunt
- 15,000+ applications/yr
- 60-155 permits/yr
- Season July 20-Mar 31
- Permits issued starting Oct 1
- ~75% hunter success

- Management Activities
  - -Aerial population estimate
  - -Ground based sexage composition counts
  - –Radio collars
  - -Serologic survey
  - –Manage bison forage on DJBR

–Administer drawing permit hunt

- <u>Issues</u>:
- Prevent damage to private agricultural crops while maintaining free-ranging herd

– Accomplished with DJBR & forage management

 Military training on bison summer & calving range

 Cooperating with military to minimize conflicts

- Issues:
- Bison starting to calve in agricultural lands
- Other Issues include:
  - -Retain access to private land for hunters
  - –Escape of domestic bison
  - –Livestock diseases

- Issues (rumor)
- Bison interbreeding with moose



#### **Black Bear**

- Accurate pop. est. not available but extrapolated to 750
- •Bears are plentiful
  - •Hunting and baiting is popular

#### •2007 Harvest = 20

#### <u>Black Bear</u>

- Management Activities
  - Seal bears
  - Register bait stations
  - Nuisance bears

#### Issues

Black bear baiting on
 Goodpaster River

#### <u>Brown Bear</u>

- Extrapolated population
   = 181-210 bears
- Harvest obj = 5-15/yr
- Current Regulations:
  - No resident tag fees
  - •Season = Aug 10-Jun

30

- •Bag limit = 1/yr
- Total mortality = 14/yr &

52% males

#### **Brown Bear**

#### Management Activities

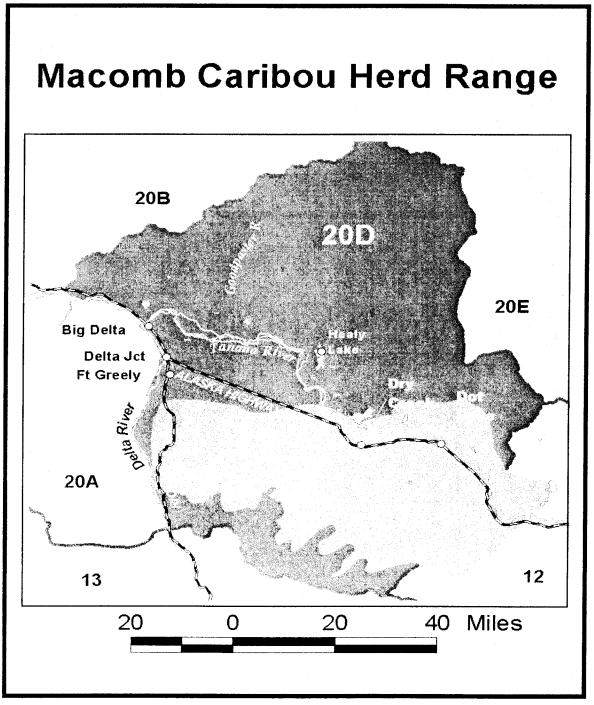
#### Seal bears

Nuisance bears

# Issues Role in Intensive Management

# Macomb Caribou Herd

#### MCH small herd in southern Unit 20D



# <u>Macomb Caribou Herd</u>

- Human consumption is highest use
- Identified for intensive management in 1995
- Positive C&T with amounts
   necessary = 10-40
- Pop. obj = 600-800
- Fall 2007 pop. = 1,305
   -29 calves:100 cows
   -68 bulls:100 cows

# Macomb Caribou Herd

- Harv obj. = 30-50/yr
- Hunting by registration permit during Delta CUA & Macomb Plateau CUA access restrictions
- Herd distribution shifted to west adjacent Richardson Hwy
  - Harvest frequently exceeded quota & many EO closures until boundary changed in 2004

### <u>Macomb Caribou Herd</u>

 Management Activities –Annual aerial population estimate & composition survey –Hunting season distribution survey -Radio collars -Registration permits

# Macomb Caribou Herd

Issue

 Meeting harvest objectives with current regulations

- –Will make 2008 season longer i.e.. Aug 10-27
  - 2 days with no motorized restrictions



#### **Furbearers**

- Species of importance include:
  - -Beaver
  - -Coyote
  - -Lynx
  - -Marten
  - -Red fox
  - -Wolverine

#### **Furbearers**

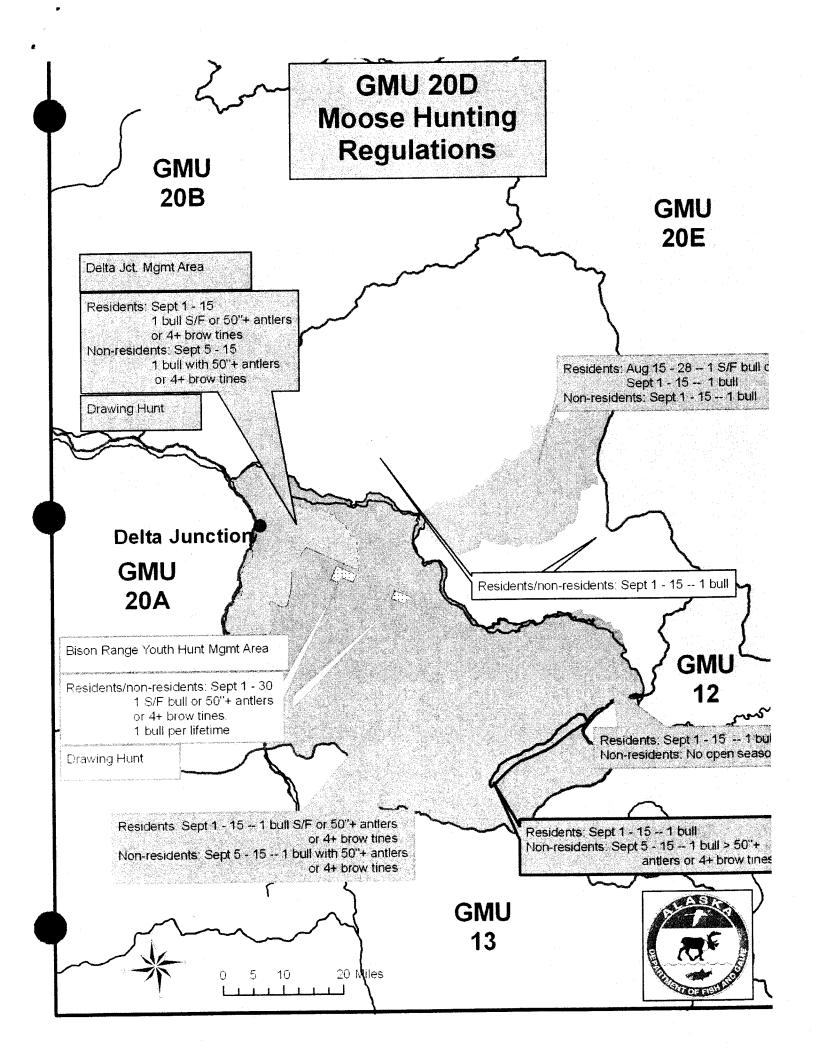
- Management Activities
  - -Seal furs
  - –Mail trapper questionnaire
  - –Annual snowshoe hare population survey
- Issues
  - -Coordinating lynx harvest tracking strategy
  - –Incidental trapping of moose & caribou

#### <u>Moose</u>

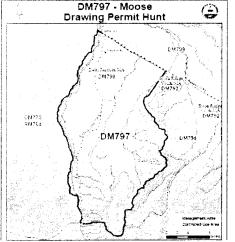
- Human consumption identified as highest use
- Intensive Mgmt adopted 1995
- Pop. objective = 8,000-10,000
- North of Tanana 2004

   –63% of area
   –2,411 moose
- South of Tanana 2006

   37% of area
   7,406 moose
- Harv. goal = 500-700
   3 yr. mean harv = 447/yr



#### 2007 SW20D Cow moose harvest



DM798 - Moose

**Drawing Permit Hunt** 

DM798

OM798

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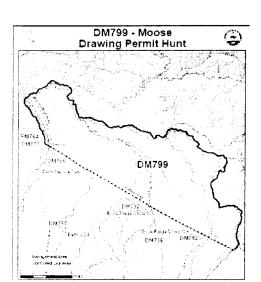
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ом78й



#### **DM798 = 180 permits**





#### **DM799 = 180 permits**

#### <u>Moose</u>

- Management Activities

   Annual GSPE
   population estimates in north or south
  - –Annual aerial twinning surveys
    - -Periodic browse

surveys

- –Regulatory signs
- -Public meetings

#### <u>Moose</u>

Issues

High density in SW Unit
20D & antlerless hunt
Antler restrictions
unpopular
High incidence of
vehicle collisions

# <u>Dall Sheep in</u> <u>Delta CUA</u>

 Sheep hunting divided into 2 permit hunts:

-DS 203 Aug 10-25

Walk-in only

- -DS 204 Aug 26-Sept 20
  - Unrestricted access
- 75 permits each hunt
- Average harvest = 51/yr last 3 yrs.
- Based on most recent questionnaire results, –81% hunters satisfied

# <u>Dall Sheep</u>

- Management Activities
  - -Plug horns
  - Conduct aerial surveys
     or population estimates
  - -Mail hunter
    - questionnaire
    - periodically
- Issues
  - Protecting habitat with development
  - Disease prevention

#### <u>Small Game</u>

- Important species:
   Sharp-tailed grouse
  - -Ruffed grouse
  - -Spruce grouse
  - -Snowshoe hares
- Popular hunting area for statewide hunters
- Grouse numbers currently moderate
- Hare numbers currently high

### <u>Small Game</u>

- Management Activities
  - –Ruffed grouse drumming surveys
  - –Monitor sharptailed grouse leks
  - -Ruffed grouse habitat management area on DJBR
- Issues

–Developing habitat mgmt techniques

### <u>Wolf</u>

- Wolf control implementation plan adopted in 1997
- Plan reauthorized in 2004
- **Pop. objective = 15-125**
- Fall 2006 pop est = 119-134 in 12 packs
  - -1:161 wolf:moose ratio south of Tanana
  - -1:25 north of Tanana

### <u>Wolf</u>

- Seasons:
  - -Hunting = Aug 10-May 31, bag limit = 5
  - -Trapping = Oct 15-Apr 30, no limit
- Harvest = 50 in 2006

### <u>Wolf</u>

- Management Activities
   –Seal pelts
  - Annual aerial surveys
     & trapper interviews to
     estimate population
     size
  - -Upper Yukon-Tanana Wolf Control Area includes a portion of northern Unit 20D

### <u>Other Issues</u>

 Forestry: Cooperating to improve wildlife habitat

-Timber sales, wildfire

- Mining: New road in N.
   20D to Pogo Mine
- Big game ranching: Bison, elk, yak, reindeer
- Domestic livestock & disease
- Enforcement: poaching

### Unit 20D Summary

- Bison
  - Herd slightly above objective
  - Damage to farm crops reduced
- Black Bear
  - Harvest objective met
- Brown Bear
  - -Harvest objective met
- Macomb Caribou Herd
  - -Population objective met

-Harvest below objective

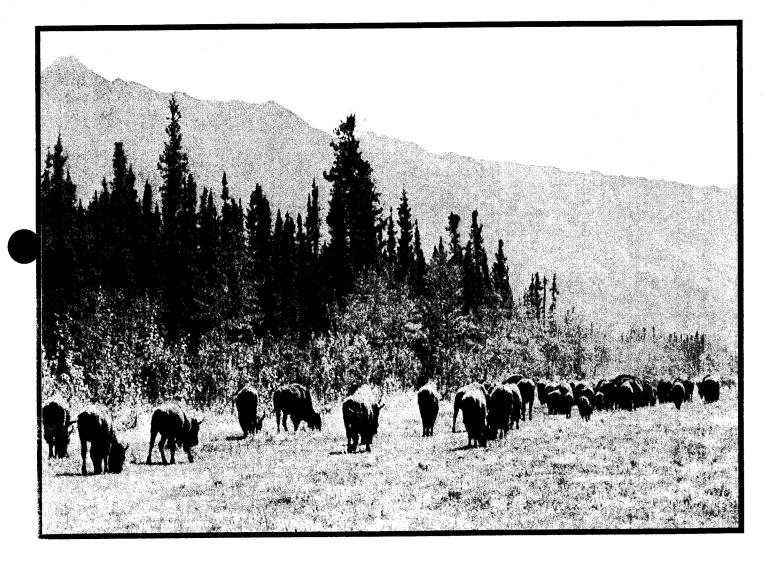
### <u>Summary</u>

### Moose

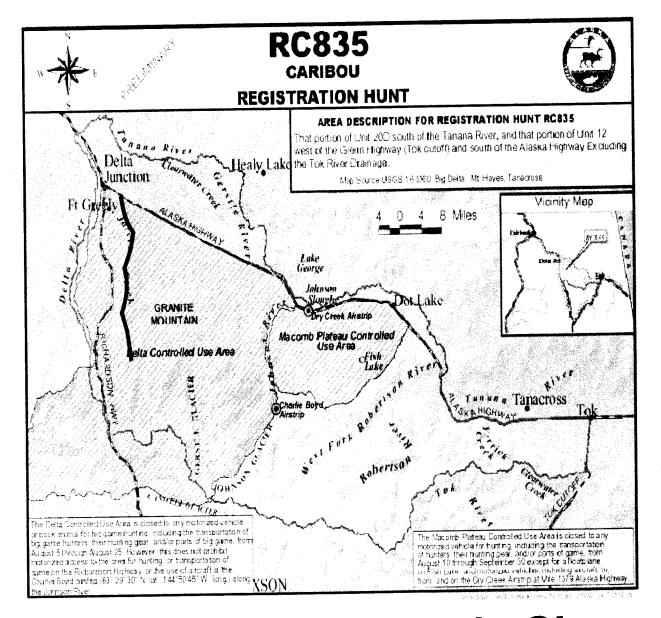
- Population objective met
- Harvest objective met in 2007
- Dall sheep
  - Population objective met
  - Harvest objective met
- Wolf

– Population objective met

### <u>The End</u>



### Macomb Caribou Herd



 Hunting east of Jarvis Ck (yellow line) by nonmotorized access via DCUA

# Unit 20D 2008 BOG Regulation Proposals



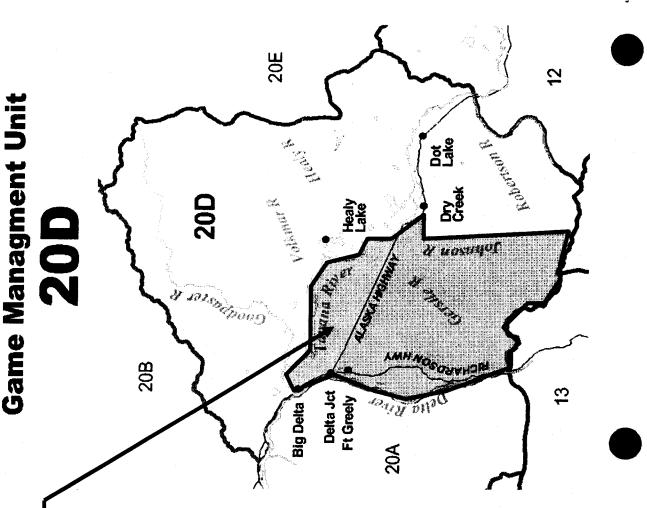
RCIZY

cow moose with out cally sis proposed in order to stabilize population growth and increase Proposal: Reauthorize the antlerless moose hi Rationale: High density population warrants <u>ADF&GRecommendation</u> Amended & Adopt antlerless moose registration permit hunt & a antierless hunt. Reautinorization of a hunt for in southwest Unit 20D, as well as create an harvest toward the intenerve management g must buil moose drawing permit hunt Issue: Antlerless moose · Submitted by: ADF&G reauthorized annually. narvest objective.

	Proposal 135	Proposal is to reauthorize drawing permit hunts in southwest Unit 20D for a cow not		<ul> <li>This is a season date change from Oct 1 – Nov</li> <li>15</li> </ul>	Create a registration permit hunt in southwest Unit 20D for a cow not	accompanied by a calf, from Oct 10 – Nov 25	Create a drawing permit hunt for 1 bull moose	<ul> <li>To create additional bull harvest if bull:cow ratio rises above 30 bulls:100 cows</li> </ul>	
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- Southwest Unit 20D -
- South of Tanana Rv
- West of Johnson Rv
- Location of highest moose density & population growth



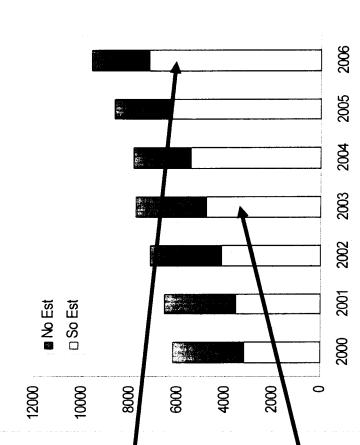


- Background
- management for Unit 20D moose in The BOG adopted intensive 1995
- Unit 20D IM moose population objective = 8,000-10,000
  - Unit 20D IM moose harvest objective = 500-700/year
- Unit 20D population ~5,600 moose
- ADFG & Delta AC have been working toward meeting the population and harvest objectives since

- population estimates include: Most recent Unit 20D moose
- Northern Unit 20D (2004) = 2,411 @ 0.8 moose/mi<sup>2</sup>
- Southern Unit 20D
- SW Unit 20D (2007) = 7,111 @ 5.6 moose/mi<sup>2</sup>
  - SE Unit 20D (2006) = 770 @ 1.3 mooose/mi<sup>2</sup>

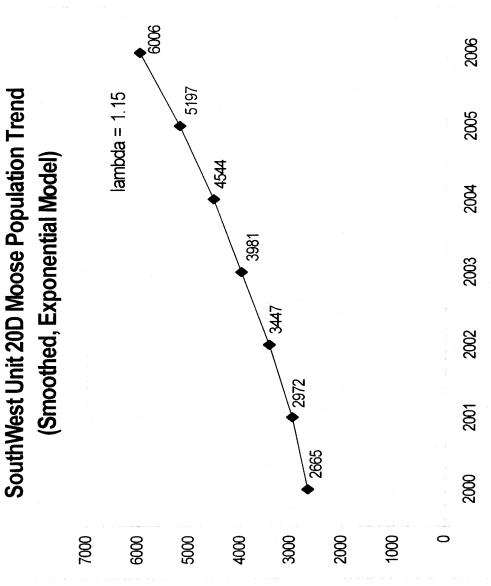
- Population meeting
  8,000-10,000
  0bjective since 2005
  & 2006
- No complete aerial survey in 2007
  - Growth is in southern Unit 20D
- Primarily in southwest Unit 20D

Unit 20D Observed Moose Population Estimates

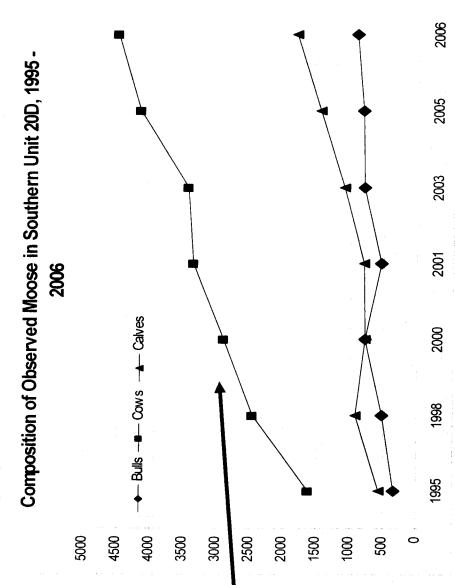




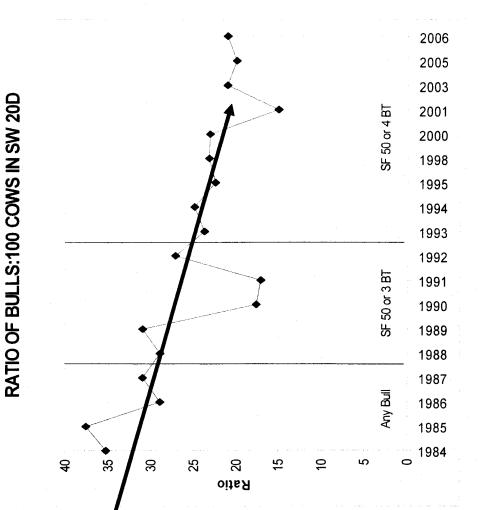
- From 2000-2006, SW 20D moose population had estimated 15% rate of growth
- Growth from several large wildfires, ag. land clearing, & high harvest of predators



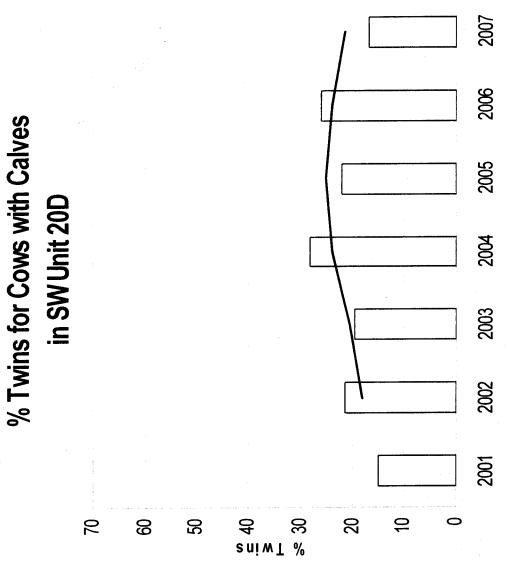
From 1995 – 2006 2006 population growth in growth in growth in SW20D SW20D of cow segment of population

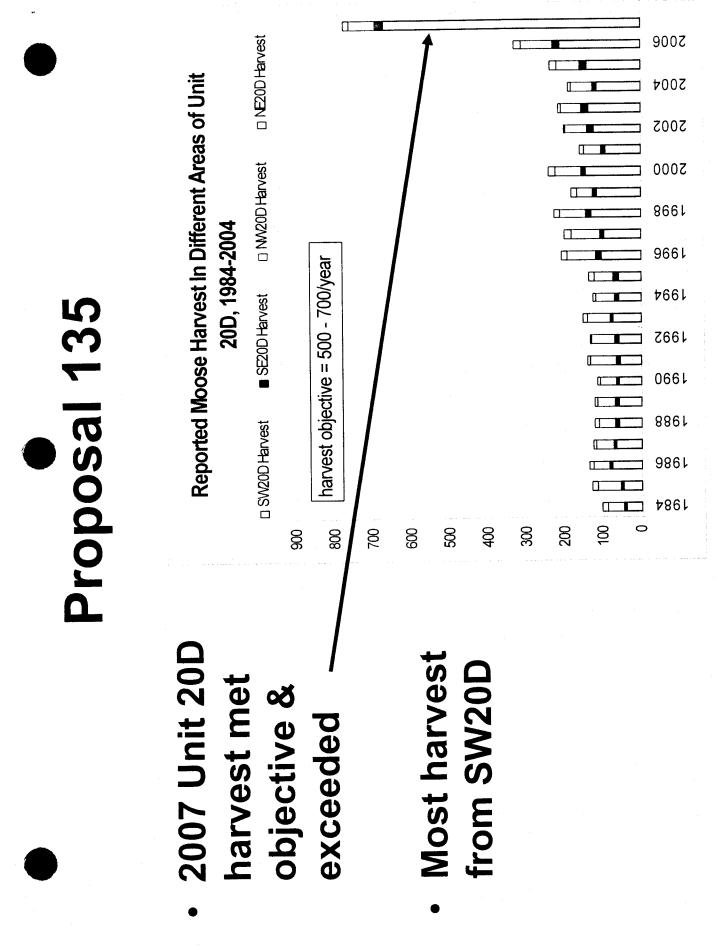


- Prior to antlerless hunt, bull:cow ratio declining even with progressively restrictive SHS
- Due in part to # cows
- SW 20D bull:cow ratio averaging low 20's even with spike-fork, 50", or 4 brow tine restrictions
  - Objective to keep bull:cow ratio >20:100

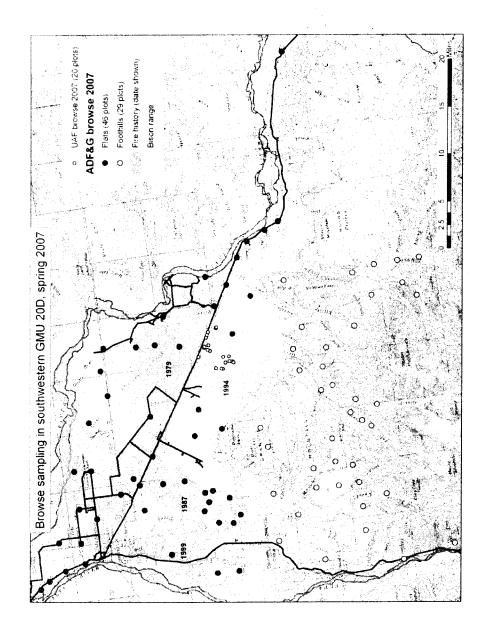


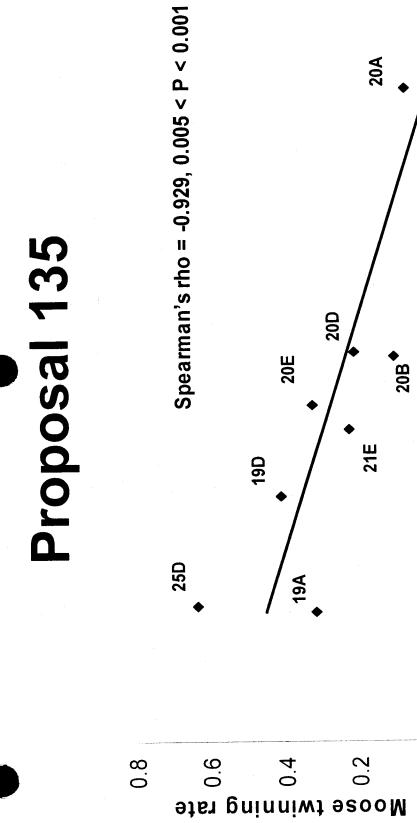
% twins in SW 20D is averaging 21% for the last 2 years but was 16.7% in 2007





- Map shows burns
- Extensive browse survey in spring 2007 2006 – 2007
  - 2006 2007 overwinter browse removal was high in SW 20D
    - 22.3 % in flats
- 30.4 % in foothills
  - 37.3% in recent burn
- Brooming index was high
  - 62% in flats
- 75% in foothills
  - 87% in recent burn







0.5

0.4

0.3

0.2

0.1

0

0

Proportional browse removal (mean plant)

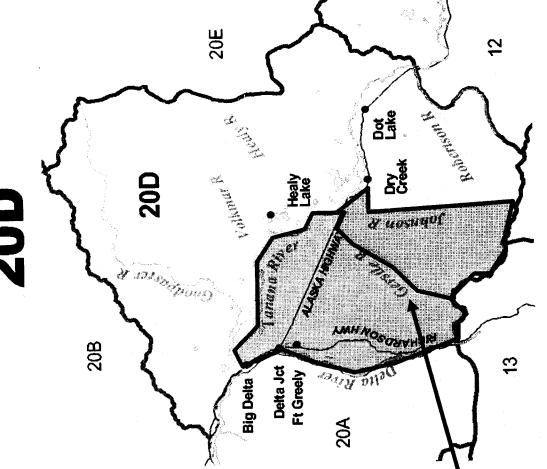
- First SW 20D antlerless harvest in 2006
- "break the ice" & implement cow moose hunt Goal of this very conservative harvest was to in SW20D
- BRYHMA = 8
- DM793 = 50 cows killed from 65 permits 1

- Working with Delta AC for 2007, decided to slow rate of population growth in SW20D
- AC's desire was to take a significant harvest in 1 year rather than extend the harvest over several years because of:
  - High density of 5.6 moose/mi<sup>2</sup>
- moose were likely having a negative impact on Relatively low twinning rates 21% indicating forage
- Browse surveys indicating significant browse removal



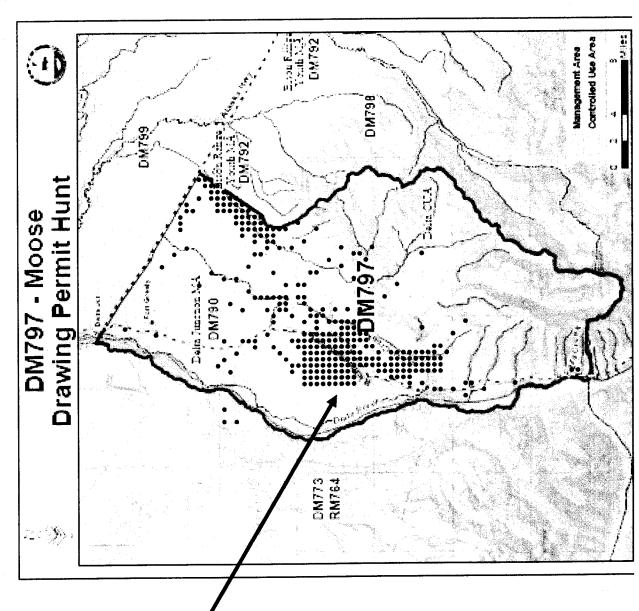
- Results of 2007
   decision to have
   liberal antlerless
   moose harvest
- 3 drawing permit hunts created in location of highest moose density
- Southwest Unit 20D
- South of Tanana Rv
- West of Gerstle Rv

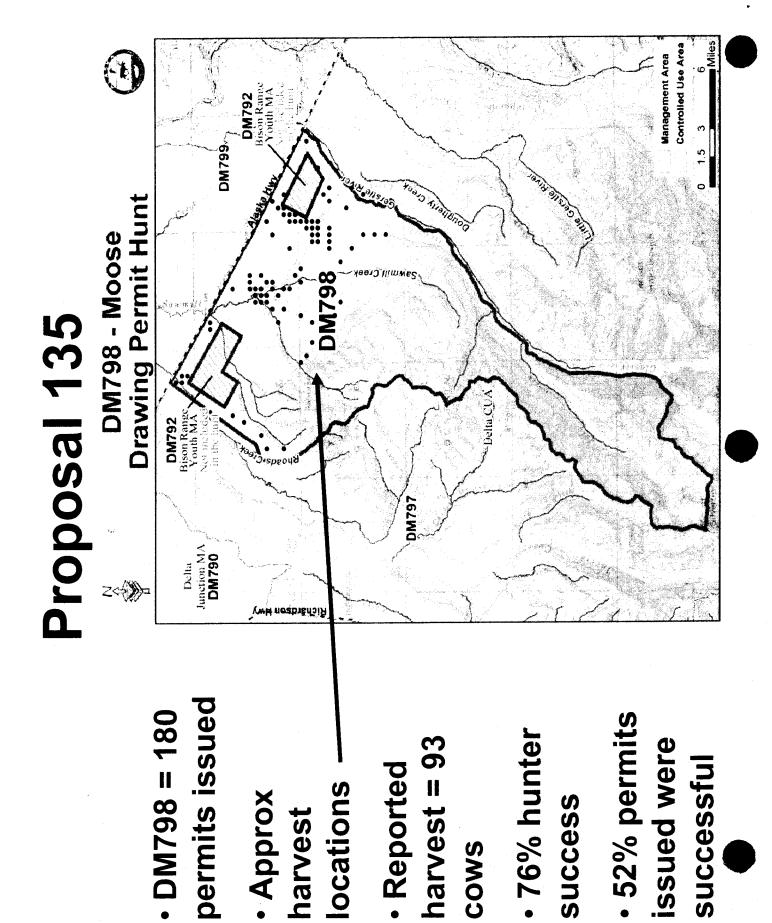






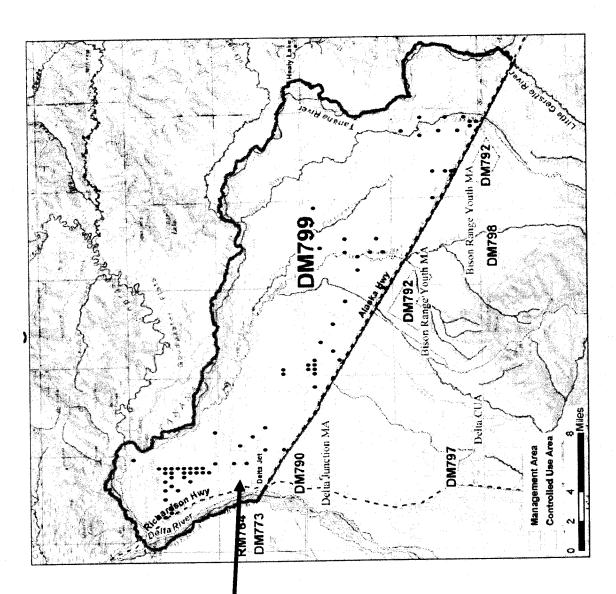
- 2007 DM797 = 541 permits issued
- Approx harvest locations -Harvest concentrated along road & trail systems
- Reported harvest = 320 moose
- Hunter success
   77%
- 59% of permits issued were successful

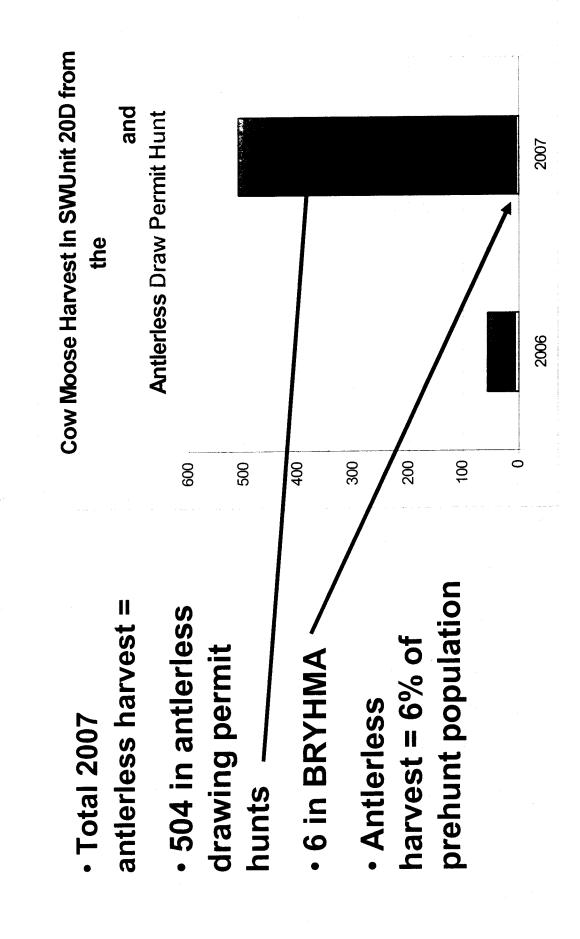






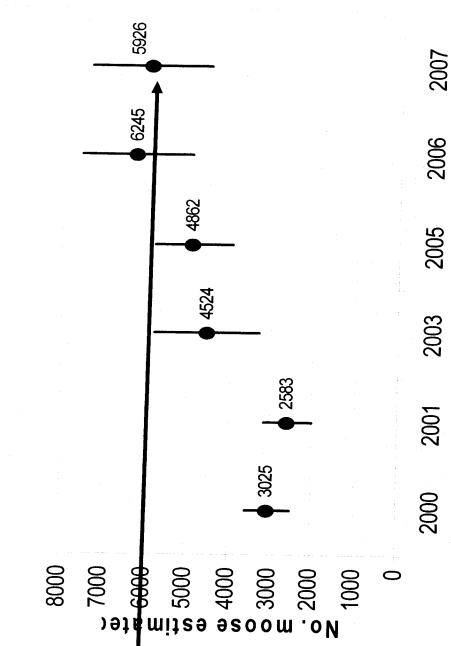
- DM 799 = 180 permits issued
- Approx harvest locations
- Reported
   harvest = 91
- Hunter success = 70%
- 51% of permits issued were successful







After 2007 antlerless hunt, SW20D observed observed population estimate declined 319 moose, however with large overlap in confidence intervals

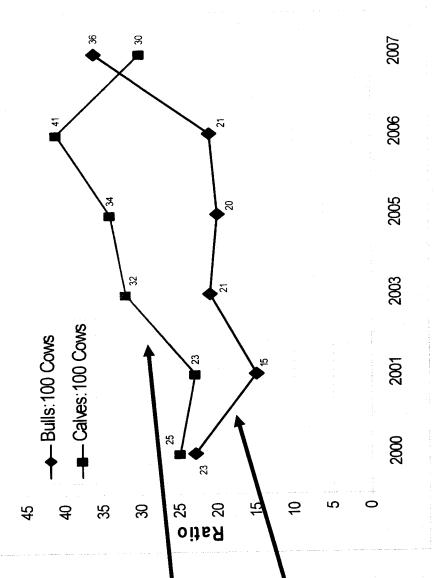


Moose Population Estimates for "Observed" Moose in Unit 20D Southwest



- After 2007 antlerless hunt in SW 20D,
- calf:cow ratio
   decreased
   unexpectedly
- bull:cow ratio increased as expected

Southwest Unit 20D Bull:100 Cow and Calf:100 Cow Ratios From GSPE Surveys



- guidelines based on indices of moose density Planning for 2008 antlerless moose hunt we developed population growth and harvest
- For Unit 20D, primary density indicies are
- Moose density
- Twinning rates
- Overwinter browse removal

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20D P(	elines
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- to density-dependent nutritional limitation to guard against Fanana River) for optimal population size based on indices starvation from overabundance. Moose populations will be moose populations independently (north and south of the Intensively manage the northern and southern Unit 20D eventual site-specific long-term range damage and managed for:
- (1): increasing population growth when the average 2-year prior twinning rate exceeds 20%, but a reduced rate of growth as this twinning rate average approaches 20%,
- (2) stable population size when the 2-year prior twinning rate averages 11%-20%, and
- (3) decreasing population growth when the 2-year prior twinning rate averages ≤10%.
- or decreasing reproductive indices other than twinning rates An attempt will be made to use at least 1 additional index to browse removal rates, decreasing late-winter calf weights, verify the respective increases in nutritional limitation implied by steps (1.) to (3.) above, such as increasing



- Harvest the northern and southern Unit 20D moose population (north and south of the Tanana River) independently.
- liberal for an area with a ratio of >30 bulls:100 cows for ≥2 years, regulations will be adopted to restrict bull harvest the maximum number of bulls. The bull bag limit will be any portion of Unit 20D for a sustainable harvest to take The bull segment of the population will be managed in consecutive years. If, in any area, the bull:cow ratio decreases to <30 bulls:100 cows for ≥2 consecutive sufficient to maintain a ratio of >20 bulls:100 cows.
- Antlerless moose harvest will be implemented as needed to manage for increasing population growth, no growth, or decreasing population growth as described in the population guidelines.

#### Interim Population Guidelines Proposal 135

Population		Current
Trend	<u>Guideline</u>	<u>Status</u>
Increasing	2-yr twinning rates	SW 201
	>20%; slow growth	= 21%
	as approach 20%	growth

D 2-yr twinning rate

= slow population

n rate

Stable 2-yr twinning rate = 11-20%

Decreasing 2-yr twinning ≤10%

Try to use 1 additional index, i.e. browse removal rates

Spr 2007 Browse Removal Lowlands = 22% Uplands = 30%

#### Interim Harvest Guidelines Proposal 135

<u>Harvest Guideline</u> Sustainable harvest for

Bag limit liberal if >30

bulls:100 cows for 2yr Restrict bull harvest if <30 bulls:100 cows for 2-yr Further harvest restrictions if needed to maintain >20 bull:100 cows

Antlerless harvest as needed to meet population growth guidelines

**Current Status** 

2006 & 2007 bull:cow ratio = 29:100 = maintain current SF/50 or 4 BT bull harvest restrictions

Antlerless harvest to slow population growth rate



- Concern is Oct 1
- season opening is during peak of rut
- Interference with breeding could result in cows being breed in later estrous
- Results in later born calves with lower survival
- Impact on 2008 calving?
- Delta AC adjusted season opening to start hunt later on Oct 10

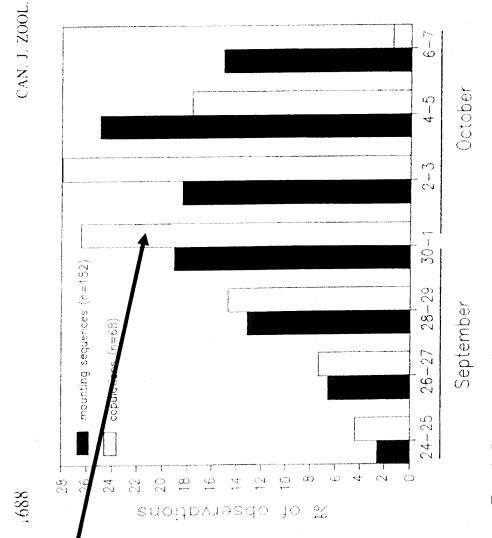
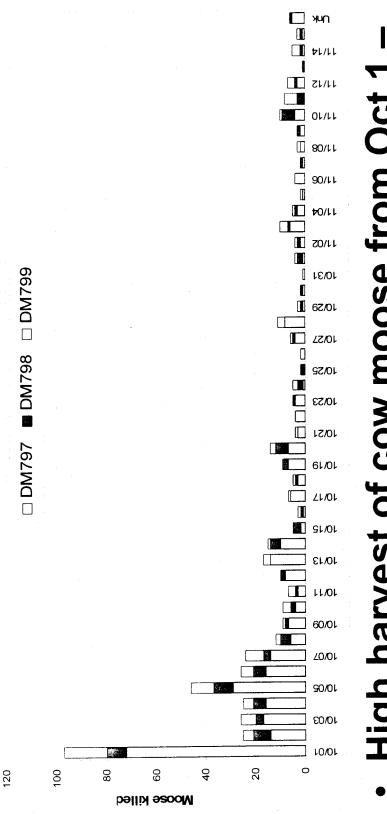


FIG. 1. Percentage of mounting sequences and copulations of moose by 2-day intervals observed during the breeding season in central Alaska.

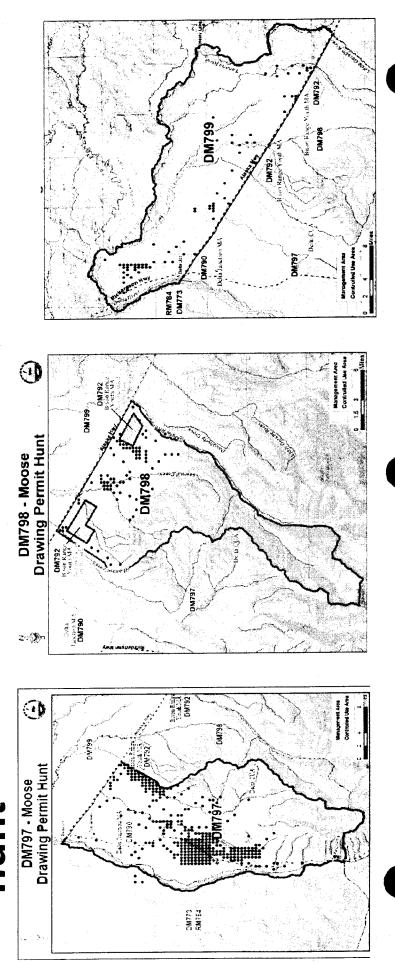


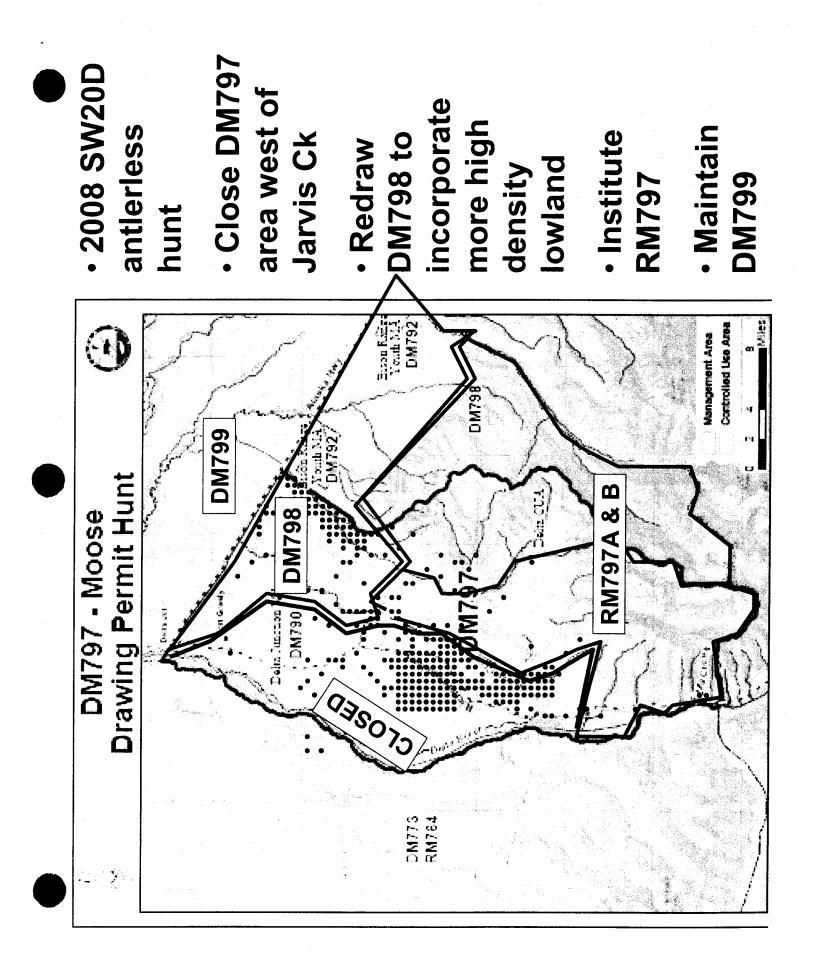
#### 2007 Harvest Chronology for DM797, 798, & 799 from Oct 1 - Nov 15

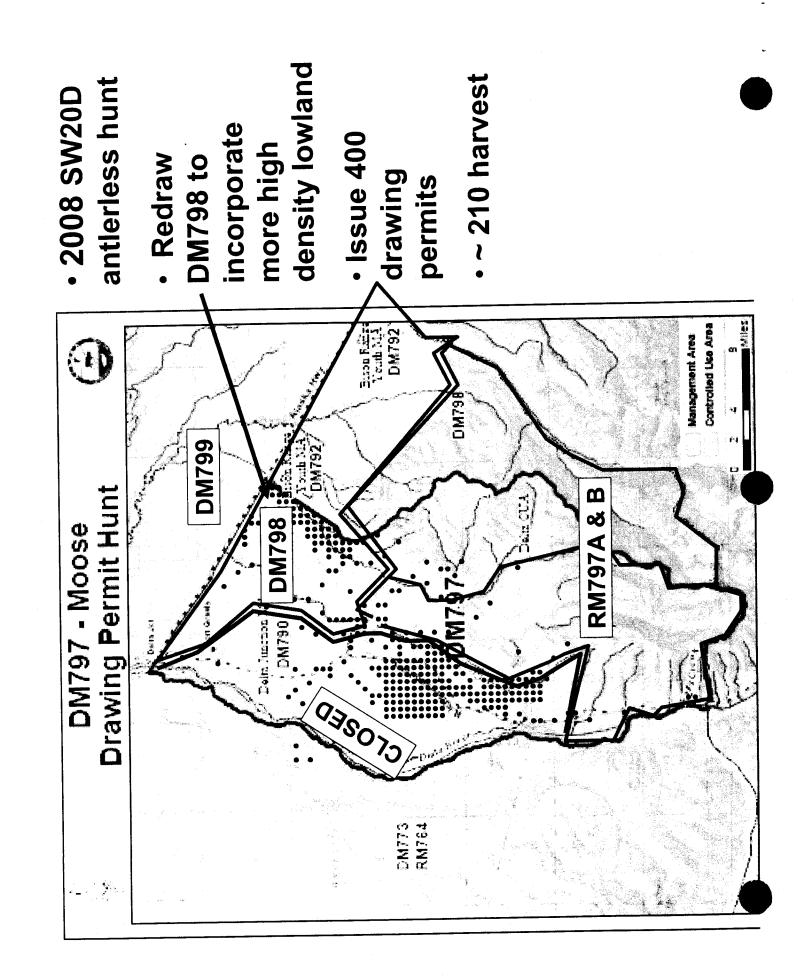


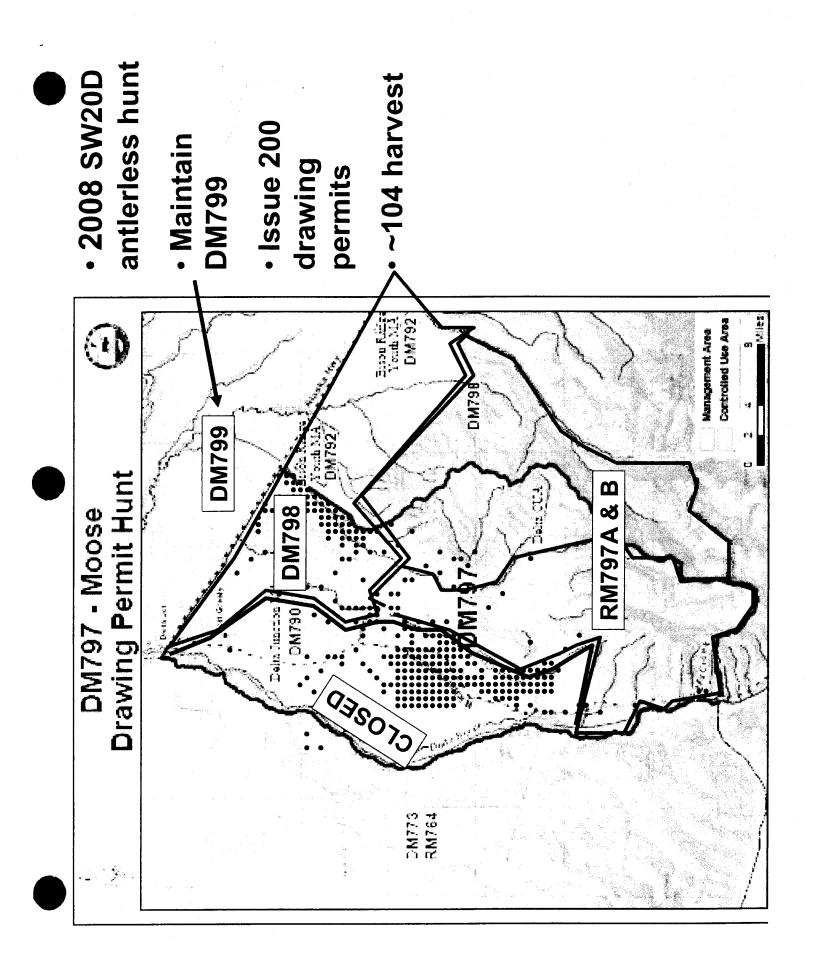
Oct 7, 2007 corresponding to peak of rut High harvest of cow moose from Oct 1

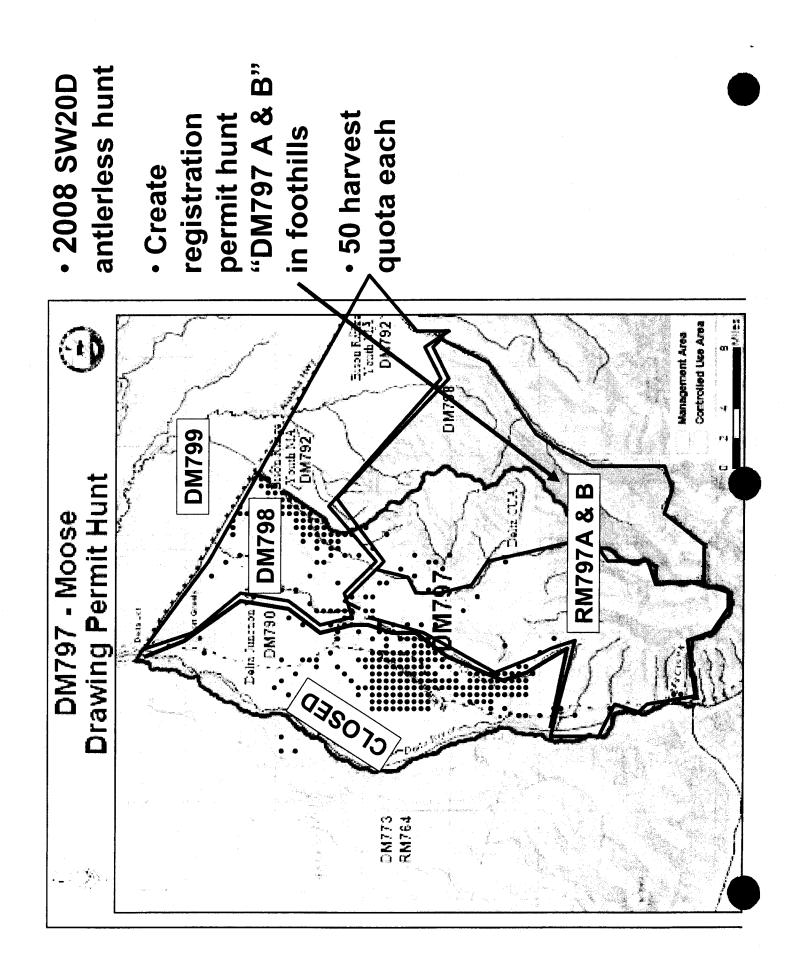
restructure permit hunt boundaries & -After reviewing 2007 antlerless hunt possibly create a registration permit ADFG & Delta AC decided to hunt

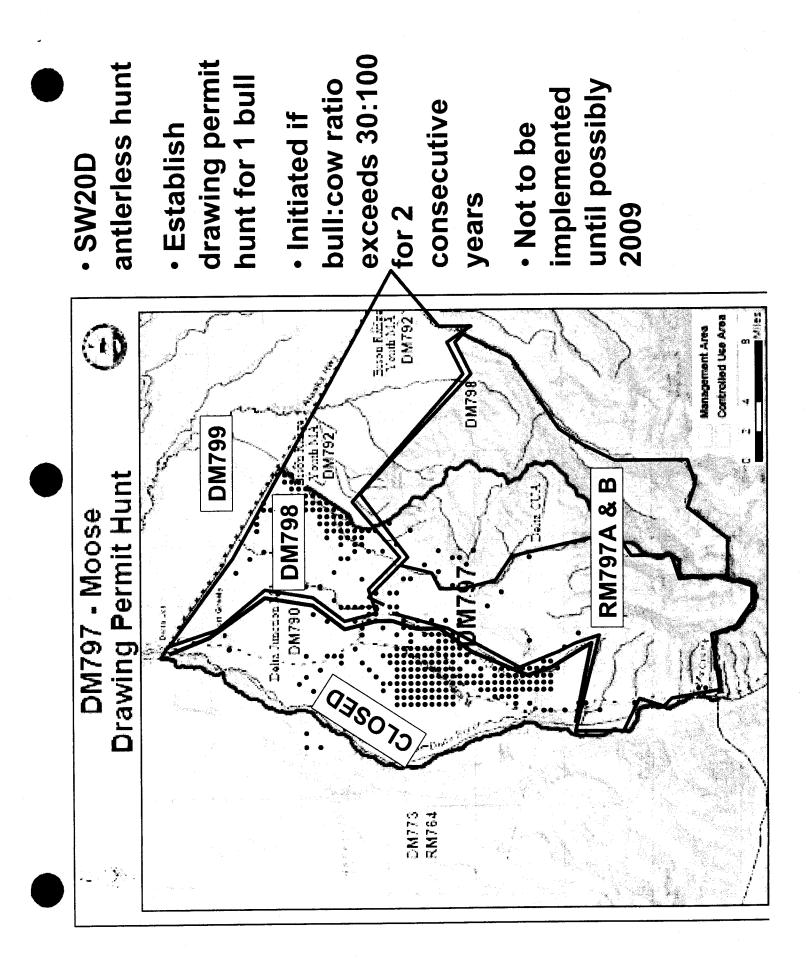












Proposal 135 Summary	SW20D moose population remains very high density = 5.6 moose/mi <sup>2</sup>	2007 hunt of 510 cows & 162 bulls may have stabilized population growth	<ul> <li>Most harvest concentrated along Richardson Hwy</li> </ul>	Two yr average twinning rate = 21%	growth	Browse removal rates relatively high	
L L	SW20     high d	<ul> <li>2007 h</li> <li>have s</li> </ul>	– Most Rich	• Two y	- Guia	• Brows	

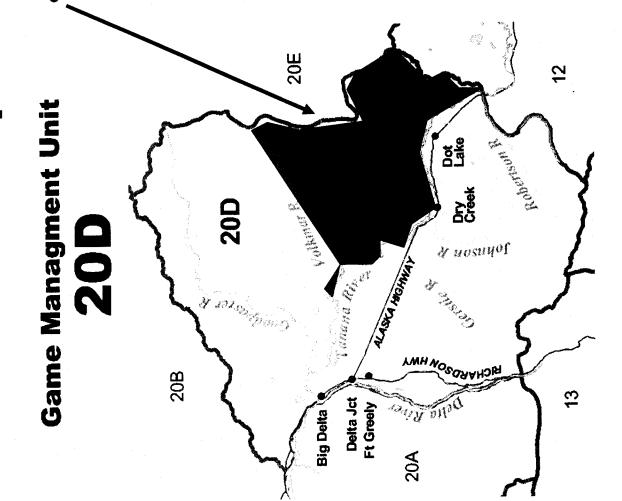
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# Proposal 135 Summary

- accompanied by a calf, from Oct 10 Nov 25, hunts in southwest Unit 20D for a cow not Proposal is to reauthorize drawing permit and ...
- This is a season date change from Oct 1 Nov 15
- accompanied by a calf, from Oct 10 Nov 25 Create a registration permit hunt in southwest Unit 20D for a cow not
  - Create a drawing permit hunt for 1 bull moose

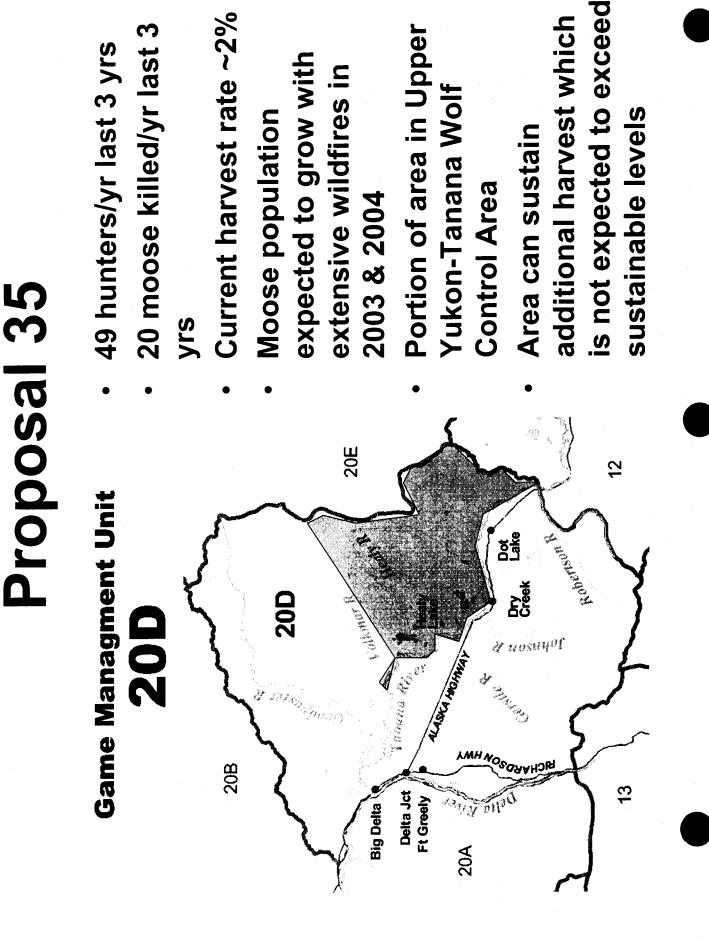
### Questions?

- Proposal: Extend the moose hunting season in northeast Unit 20D
- Submitted by: Delta AC
- hunter effort, & low harvest & can sustain igobe 2 brend flori Amend 2 adopt Issue: This area has poor accessiblity, low additional effort & harvest
- ed bluchs ('narvest, Proposed boundary should be Rationale: This area can sustain additional escompedia villa villa ville presse
- regulation boundaries in the area

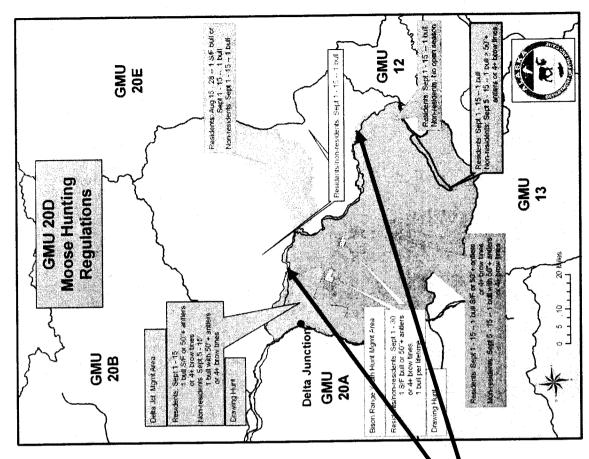


- Northeast Unit 20D east of the Volkmar Rv drainage & north of Tanana Rv
  - Moose density in 2004 0.8 moose/mi<sup>2</sup>
    - ~1,200 mi<sup>2</sup> in area = ~ 1,000 moose

al 35	<ul> <li>Current hunting season is Sept 1 - 15, bag limit = 1 bull</li> <li>Healy Rv drainage season also has Aug 15 - 28, bag limit 1 sf bull, residents only</li> <li>Proposal 35 is Sept 1 - 20</li> </ul>
Proposal 35	Game Managment Unit Bar Managment Dan

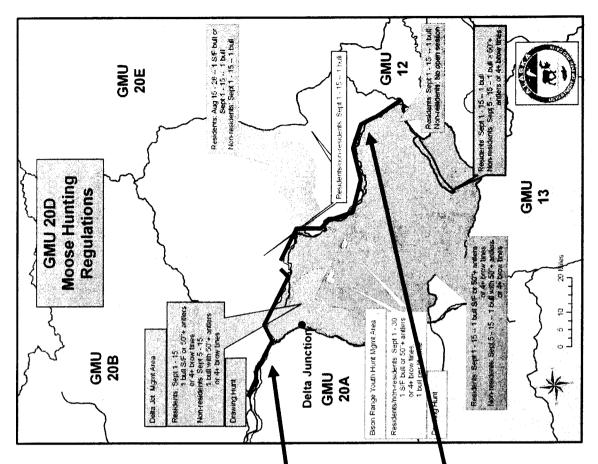


- Amend boundary because:
- Sept. moose hunting regulations in Unit 20D are very complex & complicated
  - ADFG receives many "comments" about complexity of the regulations
- Moose hunting regulations & mgmt are currently divided at north bank of Tanana Rv



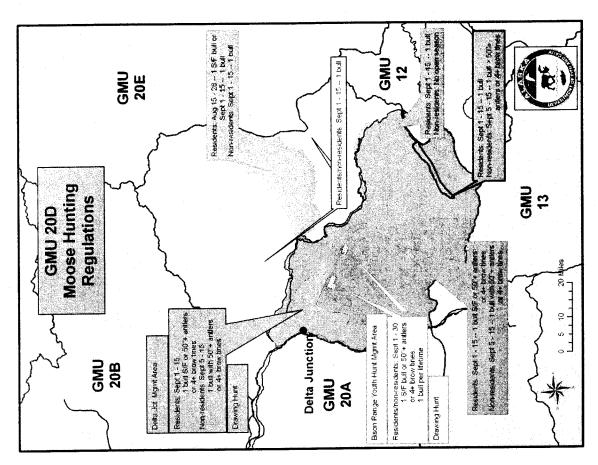


- Adopting this proposal as written will further complicate regulations
- The north bank of Tanana Rv will be – boundary for part of unit
  - The south bank of Tanana Rv will be – boundary for remainder of unit





- This boundary change will further complicate regulations in Unit 20D
- Hunter confusion
   will result in
   enforcement issues
- Recommend amending proposa to north bank of Tanana Rv



# Proposal 35 Summary

- NE Unit 20D has low hunting effort & harvest due to poor access except several large lakes and creeks
- Much of area burned in 2003 2004
- Area can sustain additional harvest
- Recommend amending boundary to north bank of Tanana Rv to simplify regulations and enforcement



### Questions?

Macomb caribou permit hunt RC 835 from 50 Proposal: Increase the allowable harvest for ACK DO

<u>Issue</u>: Macomb herd harvest limit currently Submitted by CADF&G

set at 50 caribou & herd may be able to sustain higher harvest in the future <u>ADF&GRecommendation</u>: Adopt Rationaler The Macomb cardout herd is above its population objective and can sustain additional harvest

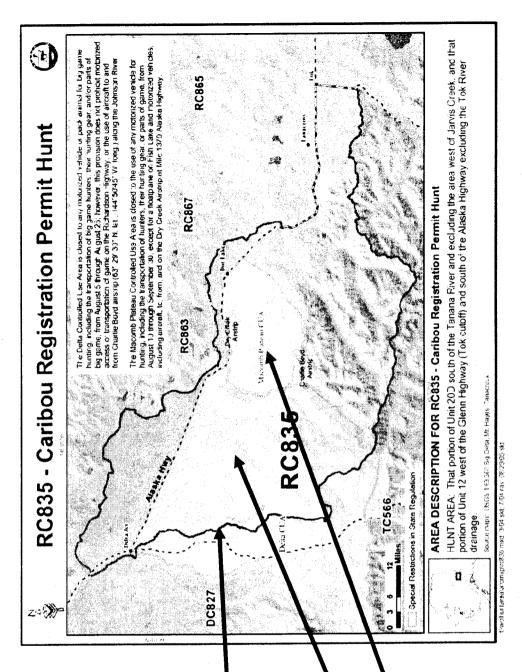
Resident Open Season (Subsistence and General Hunts ) ... Unit 20 (D) south of the Tanana River RESIDENT HUNTERS 1 bull by registration permit only; up to [50] <u>100</u> bulls may be taken in combination with Unit 12 in that portion west of the Glenn Highway (Tok Cutoff) and south of the Alaska Highway, excluding the Tok River drainage.

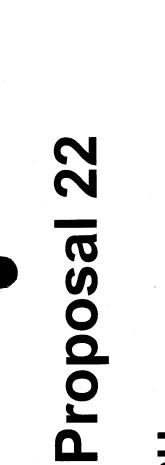
No nonresident season

Aug. 10-Sept. 30

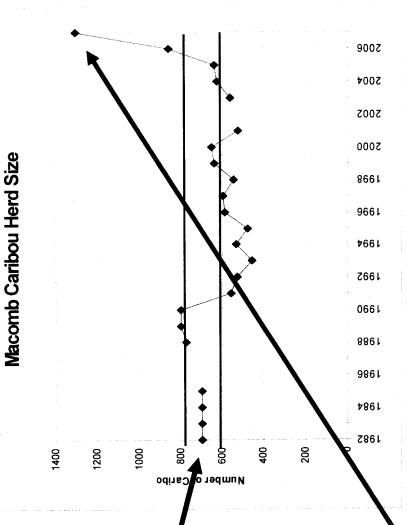


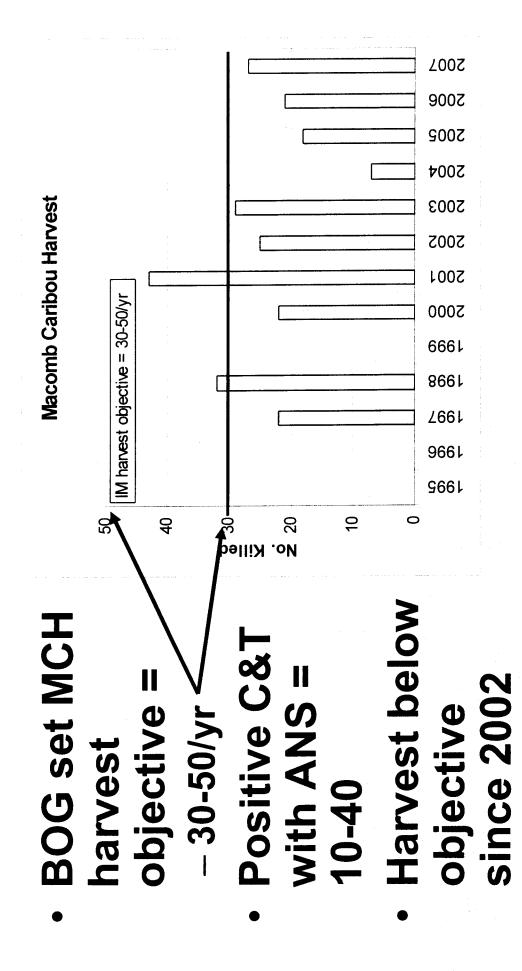
- MCH hunt is RC835; Aug 10-25; registration permit
- Unit 20D S. of Tanana Rv, east Jarvis Ck & portion of Unit 12
  - DCUA & MPCUA restrict motorized access





- BOG set MCH population objective = - 600-800
- Herd below obj from 1990-2005
- Fall 2007 population estimate = 1,305





- Current regulations limit harvest to 50 caribou.
- next several years, it may be possible If MCH population stays high for the to harvest more than 50 caribou/yr
- This proposal will allow the flexibility to take additional bull caribou as appropriate

Proposal 22	<ul> <li>Current hunting season is Aug 10-25 by registration permit</li> </ul>	<ul> <li>For 2008 will extend current registration permit hunt to Aug 10 - 27</li> </ul>	<ul> <li>Current hunt is basically nonmotorized in Unit 20D</li> </ul>	<ul> <li>– Aug 26-27 will allow motorized access from Richardson &amp; Alaska Hwys for 2 days and I anticipate taking an additional 20-25 caribou in 2 days.</li> </ul>	
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# Proposal 22 Summary

- MCH current season is 15 days, basically nonmotorized
- Herd size is above objective
- Harvest is below objective
- Will add 2 days of motorized hunting in 2008 for anticipated 20 – 25 additional caribou harvested
- provide management flexibility in the future Increasing allowable harvest to 100 will

### Questions?

- between the Salcha and Tanana Rivers after 3:00 a.m. following the day of use Proposal: Restrict airboat use until
- Submitted by: Delta AC
- Issue: Airboat use is increasing for hunting moose in previously inaccessible areas
- ADF&G Recommendation: No

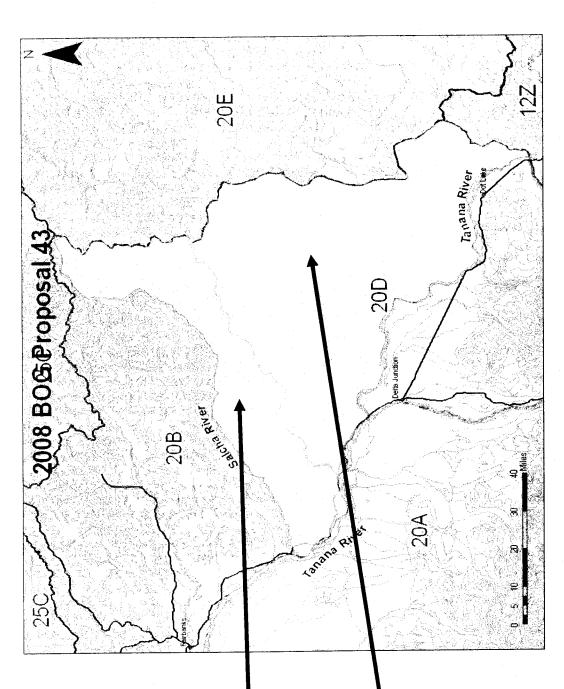
recommendation

Rationale: Allocation issue

- outside of navigable waters until after someone hunting more than 1/4 mile 3:00 a.m. following the day hunter Hunters may not hunt or assist traveled by airboat
- Does not affect jet boat, stern drive boat, paddle or float boat



- Proposed
   regulation
   boundary
   Init 200
- Unit 20B
   south of
   Salcha Rv
- Unit 20D north of Tanana Rv



- Reported airboat use is currently light in this area
- Moose killed/yr by airboat hunters in last 3 years
- 20B = 9 moose/yr by 24 hunters – 20D = 5 moose/yr by 7 hunters

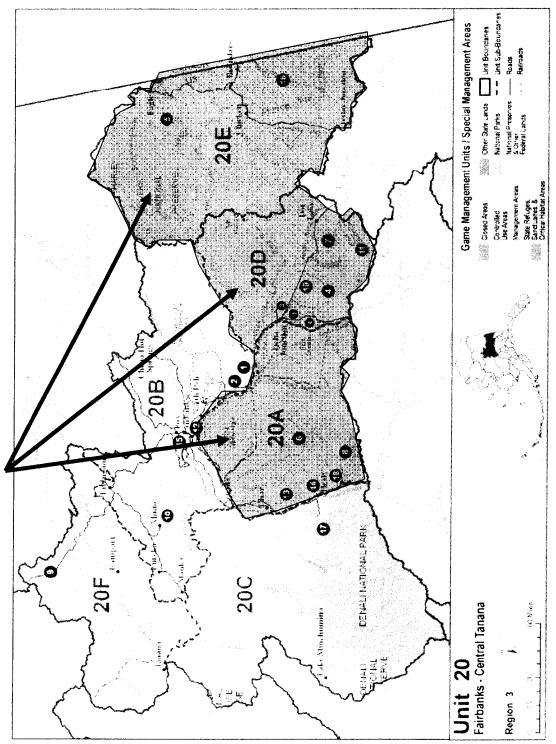
# Proposal 43 Summary

Airboat hunter effort and harvest is low in this area

### Questions?

- established trails in Units 20A, 20D, & motorized land vehicles off of Proposal: Establish same day restrictions for hunters using 20E
- · Submitted by: Public
- Issue: Negative effects by unrestricted use of motorized land vehicles for hunting
- ADF&G Recommendation: No recommendation
- Rationale: Allocation issue

Proposal applies to Units 20A, 20D, & 20E



- hunting big game until 3:00 a.m. of the day following riding a motorized land vehicle off an established trail above Proposal is to restrict hunters from the normal high-water mark of any stream, from Aug 1-Sept 30.
  - "Established trail" is not defined

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ole 0				
990 990	s foi	977 81 2006		
e K	d land	5		
3-4 inc	I Vel	5002		
y sl	Lanc 2007 g mot			
	<b>zed  </b> 90-2	2002 <sup>3</sup>		
444	<b>it 19</b> Li, 19			
Proposal 44 of <u>moose</u> hunters using 3-4 wheelers ncreased substantially since 1990 reliminary	% of Moose Hunters Using Motorized Land Vehciles for Hunting in Units 20A, D, and E; 1990-2007 sing motorized land vehicles → - % hunters using motorized land vehicl	5000		
S3 hun sub	Usin , D, å			
	ters 20A			
Propo of <u>moose</u> ncreased reliminary	Hun Jnits land v	<b>138</b>		
	<b>j in l</b>			
	of Mo ntinç g mote			
d % is	<b>Hu</b> Hu			
an ⁄s h ata	Number and % of Moose Hunters Using Motorized Land Vehciles for Hunting in Units 20A, D, and E; 1990-2007 No. hunters using motorized land vehicles % hunters using motorized land vehicles	514 1992		
	No. hu			
Number and % and ATVs has i * 2007 data is p	Nur	• <sup>1</sup> / <sub>16</sub>		
* and A Nu				
• •		No. Hunters		

# Proposal 44 Summary

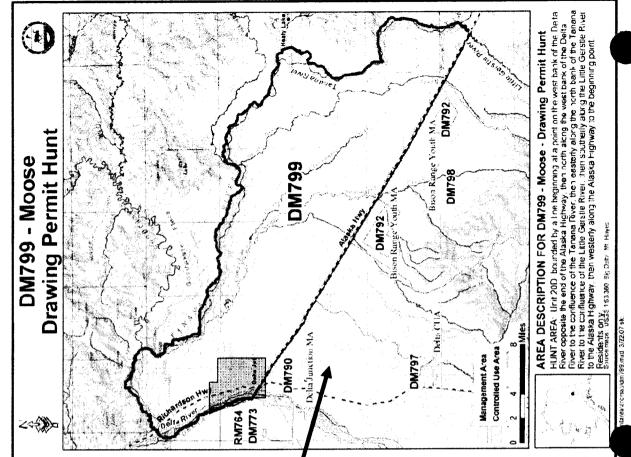
- motorized" until after 3:00 a.m. of day This proposal is to restrict motorized land vehicles for hunting "same day traveled off established trails
- "Established trails" is not defined
- these issues on a case by case basis May be more appropriate to address rather than broadscale

## Questions?

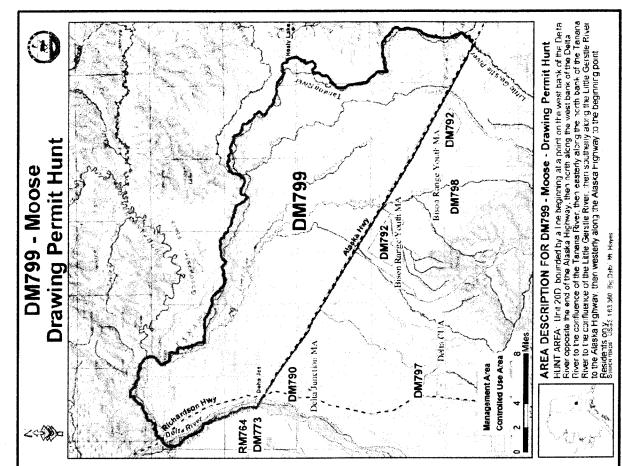
- Proposal: Close the city limits of Delta Junction to big game hunting
- Submitted by: City of Delta Junction
- Issue: Public concerns that antlerless dangerous public safety situation moose hunt DM799 creates a
  - ADF&G Recommendation: No recommendation
- Rationale: Public safety issue



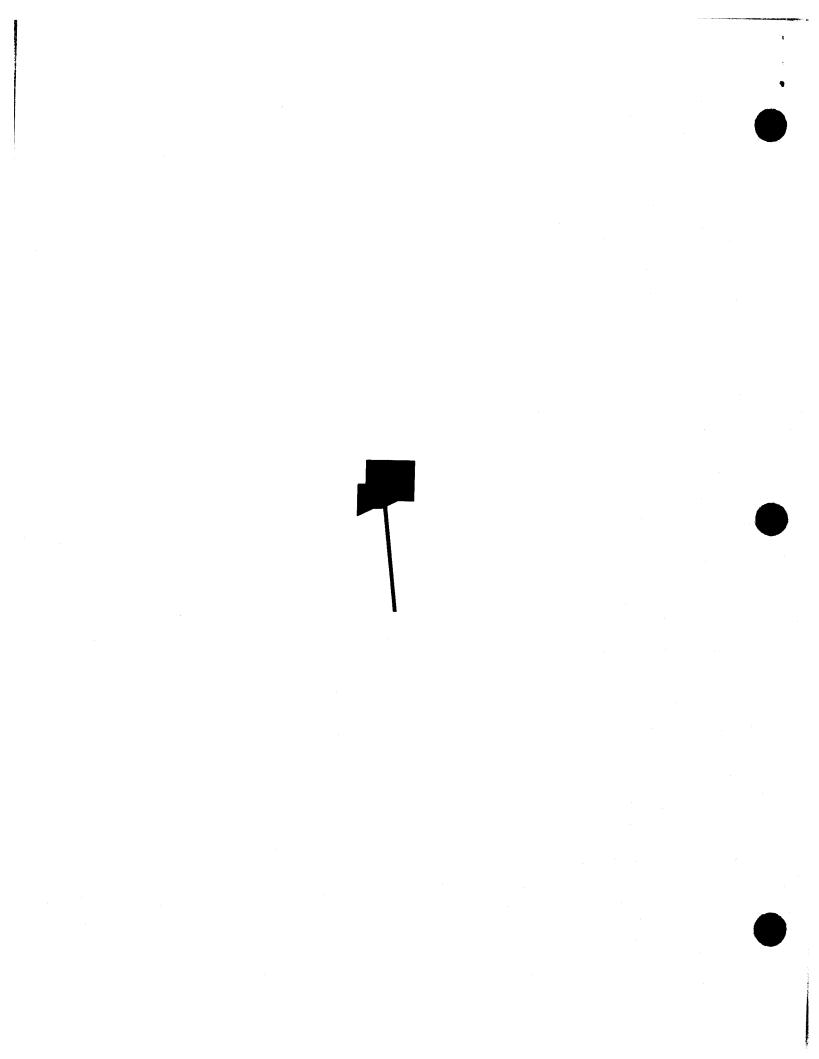
- DJ city limits in red
- Human population ~950
- Much of DM799 populated
- Delta Junction Closed Area created in 1974
- DJCA changed to DJMA in 1996 & bull hunting by drawing permit
- Delta Junction city limits currently has 2 open moose seasons
  - DM790 (DJMA)
- Sept 1 15, 10 draw
   permits for SF50/4BT bull
  - DM799 (antierless)
    - Created 2007
- 180 permits for cows w/o calves



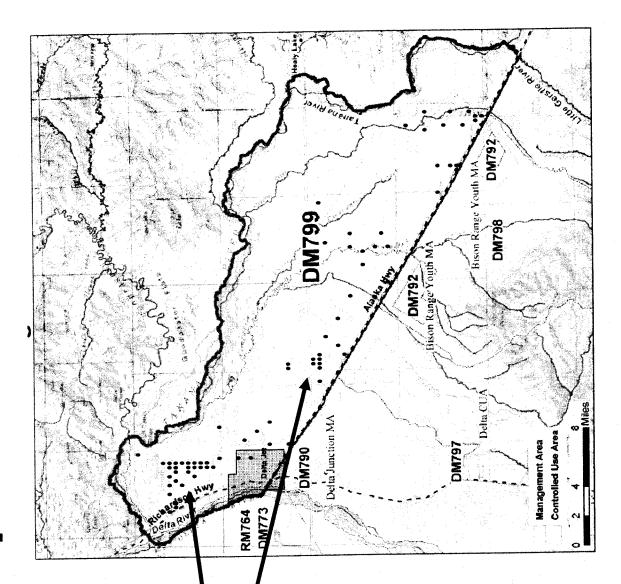
- The Delta Junction city limits are a small portion of the DM799 permit hunt area for antlerless moose
- City limits also open to other big game hunting, primarily bears
- City limits open to small game hunting



t wohintareatsionaption 799, mot 3/22,07 sk:



- - ~1-2 killed inside city limits
- No DM790 bulls killed inside city limits



	Proposal 45
•	City of Delta Junction has been reluctant to
	address concern by prohibiting discharge of
	firearms on principle and because they have no
	enforcement authority
•	Closing the city limits to hunting via BOG will
	provide enforcement through Alaska Wildlife
	Iroopers
•	Closing city limits to hunting will have little overall
	reduction in moose hunting opportunity
•	Public safety concern will go away when DM799
	hunting stops
•	Home ranges of most moose inside city limits
	probably extends outside of city limits and they
	would be available for hunting outside

- game hunting will have a negative effect on **Closing the Delta Junction city limits to big** control of bears in city limits, although the cities concern is with cow moose hunters
- **Currently city residents can shoot nuisance**  Bears killed annually in city limits is low (0 – 2) bears with a hunting license or DLP
- This regulation would make DLP only legal way to kill bears in the city limits

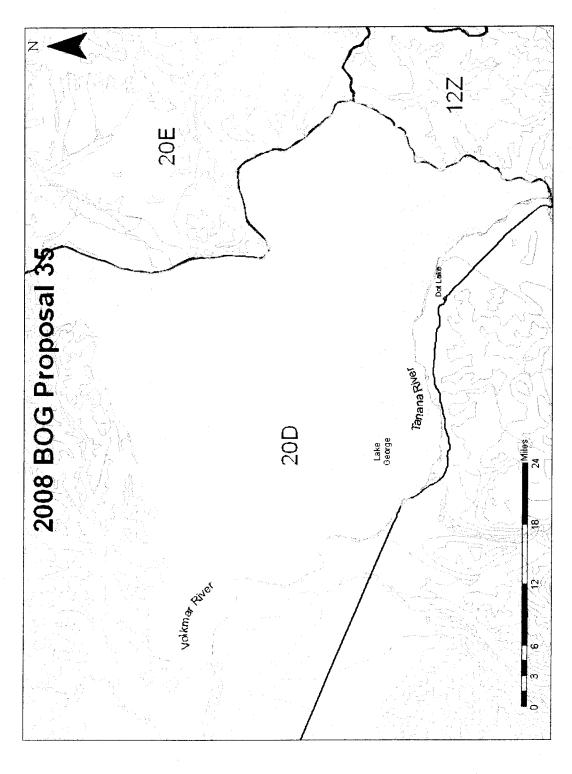
#### hunting because of public safety concern Will complicate dealing with nuisance Proposal is for all big game hunting Proposal 45 Summary City wants BOG to close big game with cow moose hunters

bears in the city limits

#### **Questions?**

#### Lagniappe

- 32 - 	<ul> <li>Fairbanks</li> <li>Nonsubsistence Area</li> </ul>	<ul> <li>North bank of Tanana is boundary of Fai.</li> <li>Nonsubsistence Area</li> </ul>	<ul> <li>Proposal 35 is south bank of Tanana Rv where adjacent to FNA</li> </ul>	<ul> <li>Amend proposal to north bank of Tanana Rv to align with Fairbanks Nonsubsistence Area</li> </ul>
Proposal 35	Game Managment Unit 20D		THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE	1 00



Southwest Unit 20D Moose Population Estimates

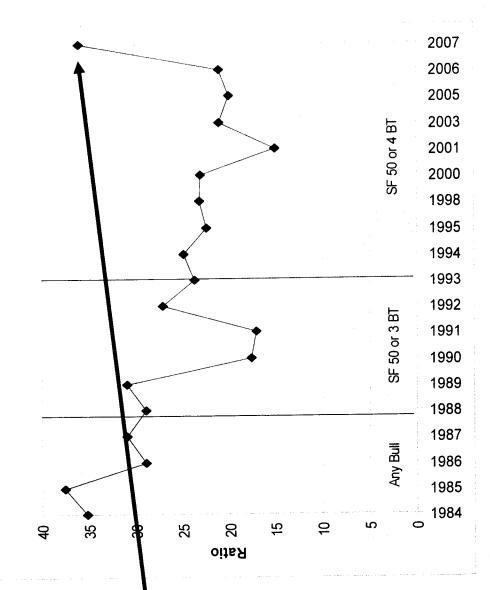
(corrected for sightability)

\$

After 2007 antlerless hunt in SW 20D, population growth growth stabilized primarily in cow segment of population

After the 2007 antlerless hunt SW 20D bull:cow ratio increases to 36 bull:100 cows

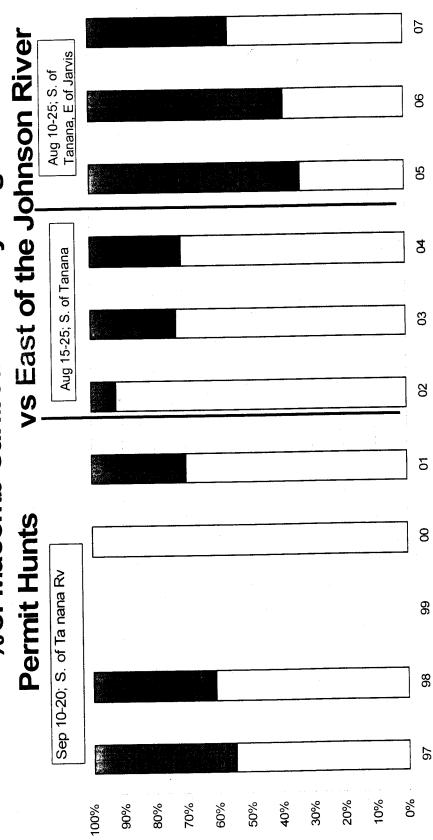
RATIO OF BULLS:100 COWS IN SW 20D





đ

# % of Macomb Caribou Killed by Registration



- Most of harvest has shifted to east of Johnson Rv with boundary change to E of Jarvis Ck
  - Adding Aug 26 27 will allow additional motorized opportunity west of Johnson Rv

KC125

**PROPOSAL 135 - 5AAC 85.045(a)(18). HUNTING SEASONS AND BAG LIMITS FOR MOOSE.** Reauthorize the antlerless moose hunting season in Unit 20D, create an antlerless registration hunt in the same area.

#### 5 AAC 85.045. Hunting seasons and bag limits for moose. (a) ...

Resident Open Season (Subsistence and General Hunts)

Nonresident Open Season

**Units and Bag Limits** 

(18)

...

. . .

Unit 20(D), that portion lying west of the west bank of the Johnson River and south of the north bank of the Tanana River, except the Delta Junction Management Area and the Bison Range Youth Hunt Management Area

RESIDENT HUNTERS: 1 bull with spike-fork or 50-inch antlers or antlers with 4 or more brow tines on one side; or

#### <u>1 bull by drawing permit;</u> or;

1 antlerless moose by drawing permit only; up to 1,000 permits may be issued in combination with that portion in the Delta Junction Management Area; a person may not take a calf or a cow accompanied by a calf, <u>or;</u>

<u>1 antierless moose by</u> registration permit only; a person may not take a calf or a cow accompanied by a calf

NONRESIDENT HUNTERS:

Sept. 1–Sept. 15 (General Hunt Only)

<u>Sept. 1–Sept. 15</u> (General Hunt Only)

<u>Oct. 10 – Nov. 25</u> (General Hunt Only)

<u>Oct. 10 – Nov. 25</u> (General Hunt Only) 1 bull with 50-inch antlers or antlers with 4 or more brow tines on one side

Unit 20(D), that portion within the Bison Range Youth Hunt Management Area

1 bull, with spike-fork or 50inch antlers or antlers with 4 or more brow tines on one side; or 1 antlerless moose, per lifetime of a hunter, by drawing permit only; up to 10 permits may be issued; a person may not take a calf or a cow accompanied by a calf

Unit 20(D), that portion within the Delta Junction Management Area

RESIDENT HUNTERS: 1 bull with spike-fork or 50-inch antlers or antlers with 4 or more brow tines on one side by drawing permit only; up to 30 permits may be issued; or

1 antlerless moose by drawing permit only; up to 1,000 permits may be issued in combination with that portion lying west of the west bank of the Johnson River and south of the north bank of the Tanana River; a person may not take a calf or a cow accompanied by a calf **or**;

<u>1 antlerless moose by</u> registration permit only; a person may not take a calf or a cow accompanied by a calf

NONRESIDENT HUNTERS: 1 bull with 50-inch antlers or Sept. 5-Sept. 15

Sept. 1 – Sept. 30 (General Hunt Only) Sept. 1 – Sept. 30

Sept. 1 – Sept. 15 (General Hunt Only)

<u>Oct. 10 – Nov. 25</u> (General Hunt Only)

<u>Oct. 10 – Nov. 25</u> (General Hunt Only) antlers with 4 or more brow tines on one side by drawing permit only; up to 30 permits may be issued

...

**ISSUE:** Antlerless moose hunting seasons must be reauthorized annually. Reauthorization of a limited drawing permit for cow moose without calves is proposed in order to begin stabilizing population growth in this area, and increase harvest toward the intensive management harvest objective. The density of moose in Unit 20D south of the Tanana River and west of the Johnson River is high, about 5.6 moose/mi<sup>2</sup> in 2006. The Unit 20D moose population has reached its intensive management population objective of 8,000 to 10,000, with most population growth and highest densities occurring in this southwestern portion of Unit 20D. The moose population in this area is increasingly demonstrating the effects of increased competition for food; e.g. twinning rates are at moderately low levels of 21%. Also, browse surveys indicate that moose are consuming moderately high quantities (25%) of available browse over the winter. Unit 20D antlerless moose hunts should be conducted as drawing permit hunts in road accessible areas. However, it would be advantageous to have the option of establishing registration permits hunts in the more remote, roadless areas where moose browsing pressure is greatest, and to direct hunting pressure there through the incentive of a registration permit.

Changing the opening date of the antlerless moose hunting season from October 1 to October 10 moves the hunting pressure out of the peak of rutting activity. Changing the closing date of the hunt from November 15 to November 25 replaces the 10 days that were removed from the beginning of the season.

Harvesting cow moose from the southwest Unit 20D moose population may result in the bull:cow ratio increasing. Interim Unit 20D moose harvest guidelines recommend liberalizing bull harvest if the bull:cow ratio exceeds 30 bull:100 cows for 2 consecutive years. Providing a drawing permit hunt for 1 bull will provide additional hunting opportunity for bull moose without resulting in an over harvest of bull moose.

Adding the term "general hunt only" to the resident season hunts is a housekeeping correction. All hunts in nonsubsistence areas, such as this portion of Unit 20D, should include this language to designate them as nonsubsistence hunts. This designation was inadvertently left out of the codified language.

WHAT WILL HAPPEN IF NOTHING IS DONE? The moose population in southwest Unit 20D will continue to increase in size and may over browse its habitat, and the Unit 20D intensive management harvest objective will not be met.

WILL THE QUALITY OF THE RESOURCE HARVESTED OR PRODUCTS PRODUCED BE IMPROVED? Passage and implementation of this proposal will improve the ability of moose habitat in southwest Unit 20D to support the current moose population. It will also allow hunters to increase moose harvest toward meeting the Unit 20D intensive management harvest objective without further reducing the bull-to-cow ratio.

**WHO IS LIKELY TO BENEFIT?** The moose population will benefit by having a moose density compatible with their habitat. Moose hunters will benefit by increasing harvest of moose from this area to meet the harvest objective.

WHO IS LIKELY TO SUFFER? Those people who are opposed to intensive management harvest strategies.

OTHER SOLUTIONS CONSIDERED? No antlerless permits or more antlerless permits.

**PROPOSED BY:** Alaska Department of Fish and Game (HQ-08S-G-)

26

PROPOSAL 35 - 5 AAC 95.045. Hunting seasons and bag limits for moose. Extend the

moose season in Unit 20D as follows:

side; or

Resident **Open Season** (Subsistence and Nonresident **General Hunts**) **Open Season Units and Bag Limits** . . . Unit 20 (D), that portion lying south of the north bank of the Tanana River and east of the west bank of the Johnson River, except that portion within the Robertson River drainage south of the confluence of the east and west forks, and within one mile west of the west fork No open season Sept. 1 – Sept 15 1 bull Unit 20 (D), that portion within the Robertson River drainage south of the confluence of the east and west forks, and within one mile west of the west fork **RESIDENT HUNTERS:** Sept. 1 - Sept. 15 1 bull Sept. 5 - Sept. 15 NONRESIDENT HUNTERS: 1 bull with 50-inch antlers or antlers with 4 or more brow tines on one side Unit 20 (D), that portion lying west of the west bank of the Johnson River and south of the north bank of the Tanana River, except the Delta Junction Management Area and the Bison Range Youth Hunt Management Area **RESIDENT HUNTERS** Sept. 1 – Sept. 15 1 bull with spike-fork or 50-inch antlers or antlers with 4 or more brow tines on one

1 antlerless moose by drawing permit only, up to 1,000 permits may be issued in combination with that portion in the Delta Junction Management Area; a person may not take a calf or a cow accompanied by a calf

NONRESIDENT HUNTERS: 1 bull with 50-inch antlers or antlers with 4 or more brow tines on one side

Unit 20 (D), that portion within the Bison Range Youth Hunt Management Area

1 bull with spike-fork or 50-inch antlers or antlers with 4 or more brow tines on one side; or 1 antlerless moose, per life-time of a hunter, by drawing permit only; up to 10 permits may be issued; a person may not take a calf or a cow accompanied by a calf

Unit 20 (D), that portion within the Delta Junction Management Area

RESIDENT HUNTERS 1 bull with spike-fork or 50-inch antlers or antlers with 4 or more brow tines on one side by drawing permit only; up to 30 permits may be issued; or

1 antlerless moose by drawing permit only; up to 1,000 permits may be issued in combination with that portion lying west of the west bank of the Johnson River and south of the north bank of the Tanana River; a person may not take a calf or a cow accompanied by a calf

NONRESIDENT HUNTERS: 1 bull with 50-inch antlers or antlers with 4 or more brow tines on one side by drawing permit Sept. 5 – Sept. 15

Sept. 1 – Sept. 30

Sept. 1 – Sept. 30

Sept. 1 – Sept. 15

Oct. 1 – Nov. 15

Sept. 5 - Sept. 15

only; up to 30 permits may be issued

Unit 20 (D), that portion within the Healy River drainage

**RESIDENT HUNTERS** 1 spike-fork bull or 1 bull

Aug. 15 – Aug. 28 Sept. 1 – Sept. 15

NONRESIDENT HUNTERS 1 bull

Sept. 1 – Sept. 15

<u>Sept. 1 – Sept 20</u>

Unit 20 (D), that portion lying north of the north bank of the Tanana River and draining into the Volkmar River east to include the Billy Creek drainage

<u>Sept 1 – Sept 20</u>

Remainder of Unit 20 (D) 1 bull

Sept. 1 – Sept 15

Sept. 1 – Sept. 15

VO. 7068 P. 3

Alaska Board of Game P. O. Box 115526 Juneau, Alaska 99811-5526

February 26, 2008

To whom it may concern.

#### RECEIVED MAR 0 3 2008 BOARDS

#### Does a season on full curled rams select for small-horned rams?

Horn-growth is expressed maximally under exceptionally favorable food conditions, when rams grow to their genetic maximum in body size. Then and only then is the length of the horn a function of heredity. That is, differences in horn-size then relate to habitability of horn length, and the horn length reflects the true genetic potential for horn growth by each ram.

Note: do you have Dall's rams of maximum genetic size (300 pounds and up), anywhere on your mountains?

If not, if your rams run about 180-220 lbs then the size of the ram's horns is disconnected from its genetics for horn-size. Horn size is very sensitive to environment and not very sensitive to heredity. Consequently, in rams of average body mass horn growth has little relationship to its genetics. Maximum horn size then is a function of a few good summers plus the good luck of not being killed by predators or an accident.

Moreover, rams from different home range groups of females are likely to be discrepant for horn growth, because phenotypic development of sheep differs for different female home range groups. When rams born and raised in different home range groups mix in ram groups, as they do, a ram with rapid horn growth may be inferior genetically in horn growth to ram originating in another home range group with poorer body development. An understanding of gene/environment interaction is mandatory for understanding the shaping of any organ by natural (or artificial!) slection.

The beanbag approach to genetics is flawed!

To minimize any possibility of hunters selecting against horn size, the best strategy is to harvest a fraction of the full curled rams, while keeping a tab on both, the average size of horns in rams taken by hunters as well as the average age. Both functions should be more or less constant.

Longstanding trial and error management for large antler size has shown that removing all large-antlered males leads to an exhaustion of young males and subsequently to a significant decrease in their body and horn growth. We have some evidence that this also happens to rams.

2

The fraction of full-curled rams can be determined accurately only when the old rams have moved to their rutting areas. Timing here is crucial as the old rams are the last to move to female ranges to breed and are the first to depart. This is not a task for quick judgment from a rapidly moving helicopter over rapidly moving sheep! Accurate methods of census are crucial.

You have in the past with the full curl rule harvested only a fraction of the legal rams – as it should be!

The fear, that taking a large fraction of full curled rams will diminish horn growth potential, is well meaning, but unfounded. It would be a different matter if rams were severely harvested at the <sup>3</sup>/<sub>4</sub> curl stage

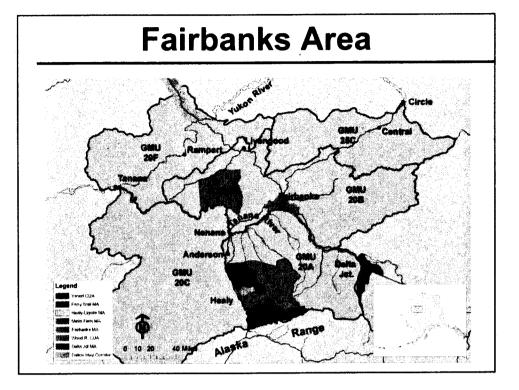
Sincerely,

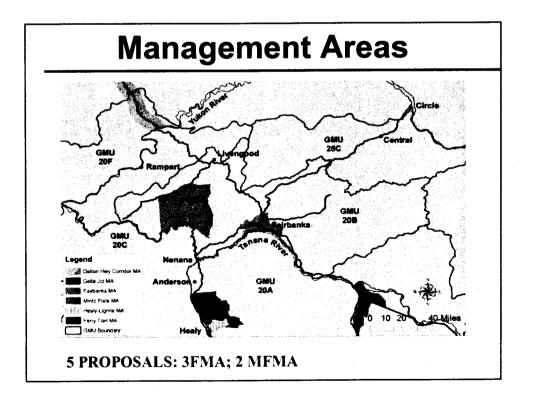
Valerius Geist PhD., P. Biol. Professor Emeritus of Environmental Science The University of Calgary <u>kendulf@shaw.ca</u> 250-723-7436

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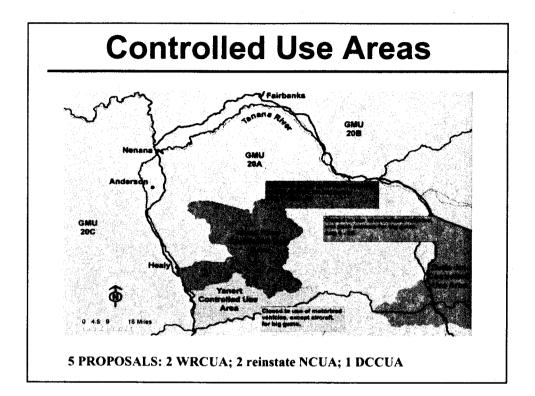
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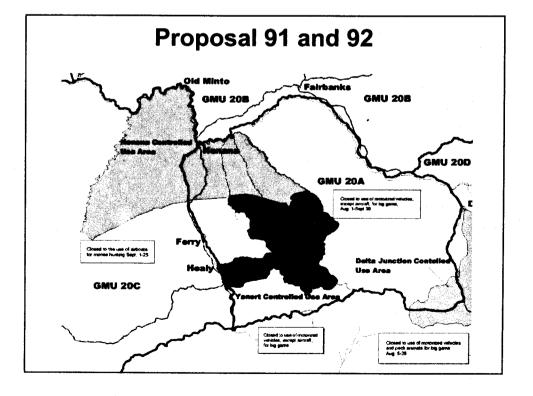
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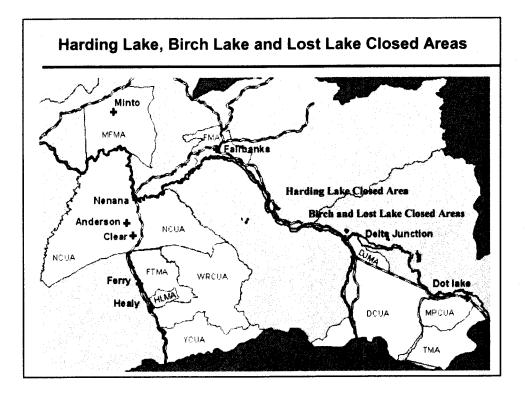


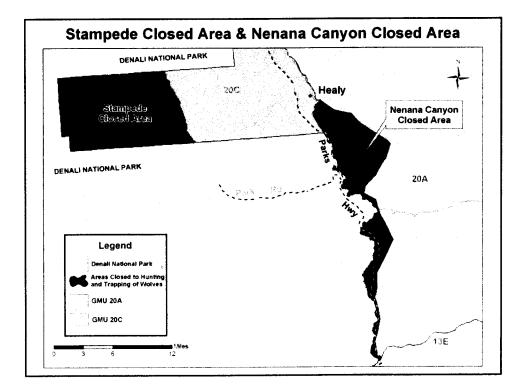


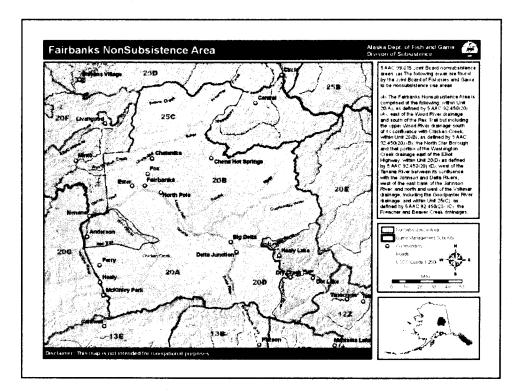
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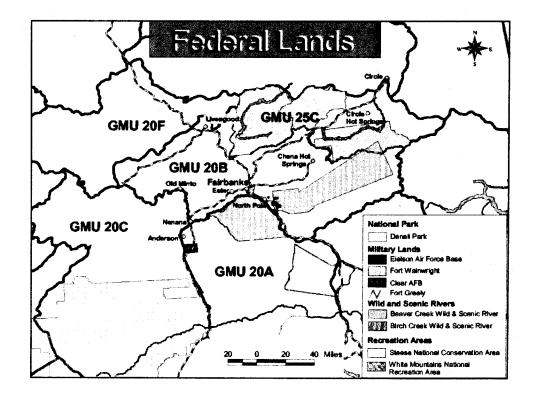


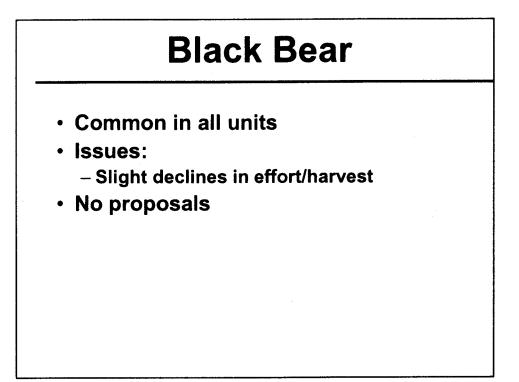


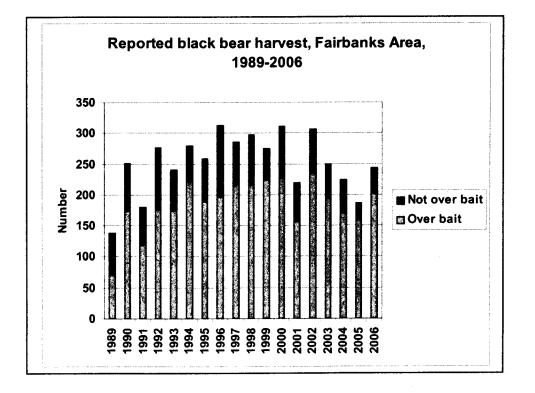


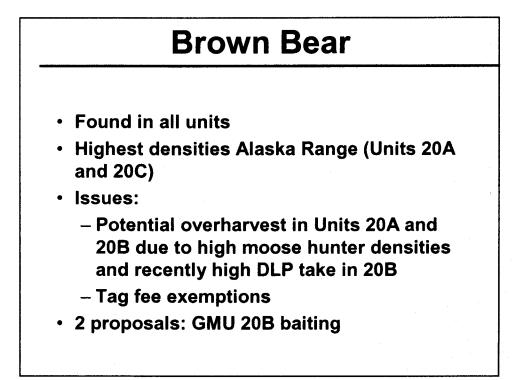


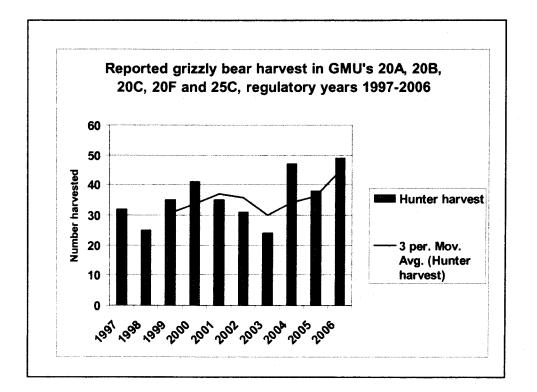


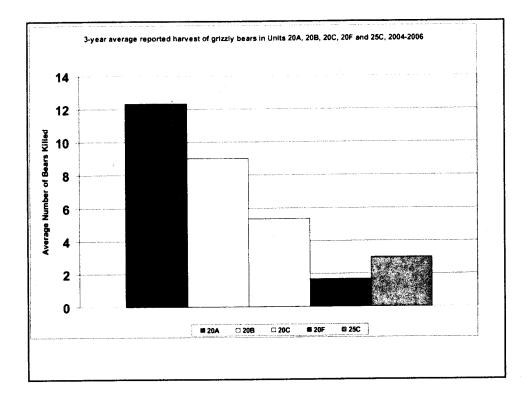


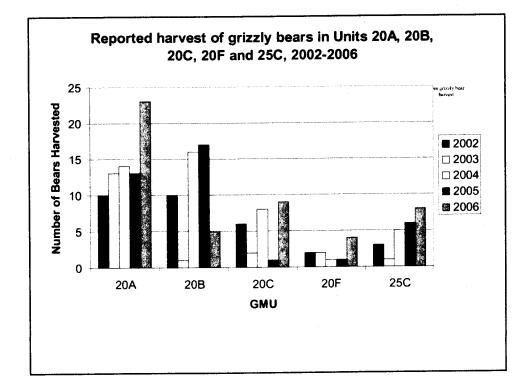


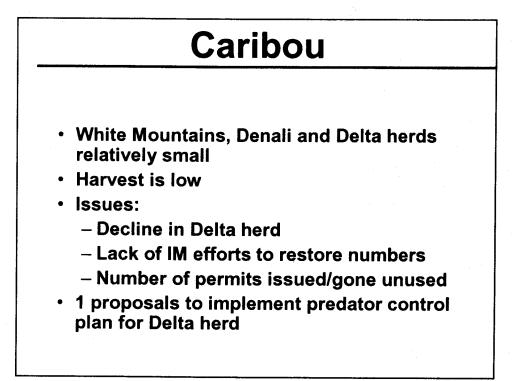


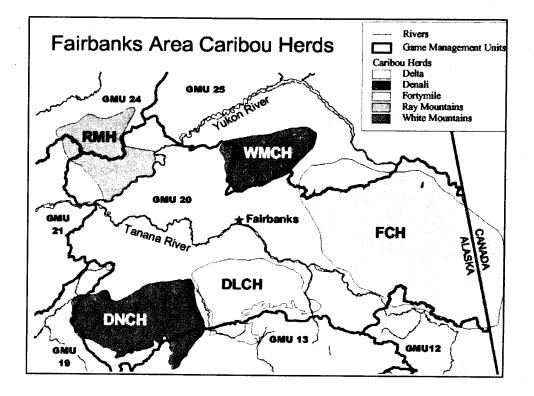


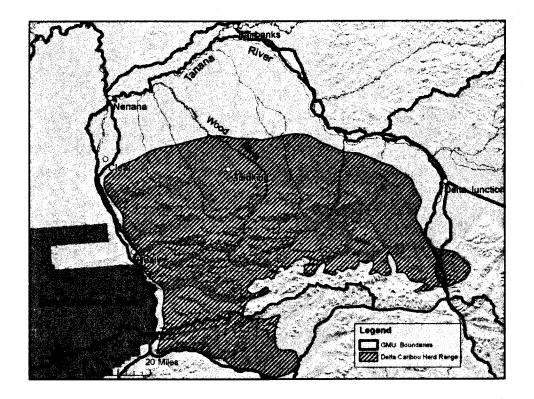


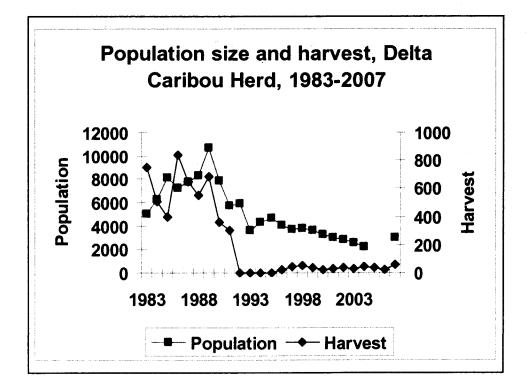






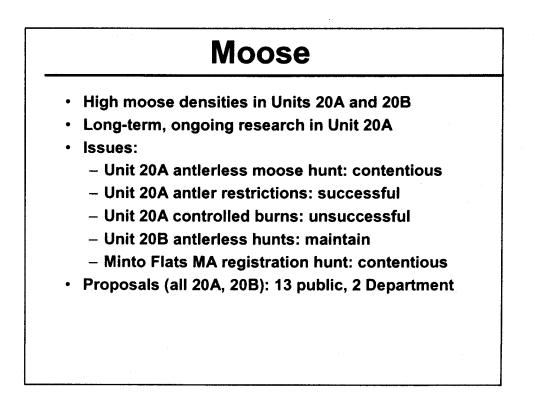


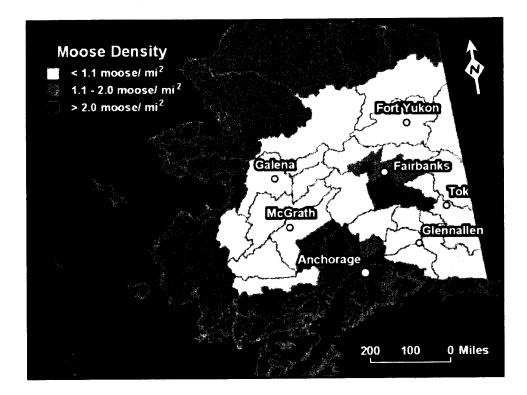


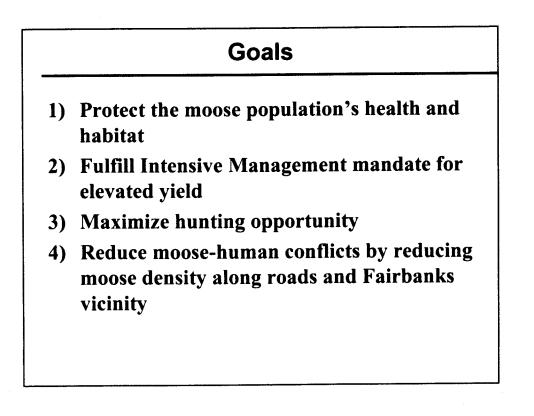


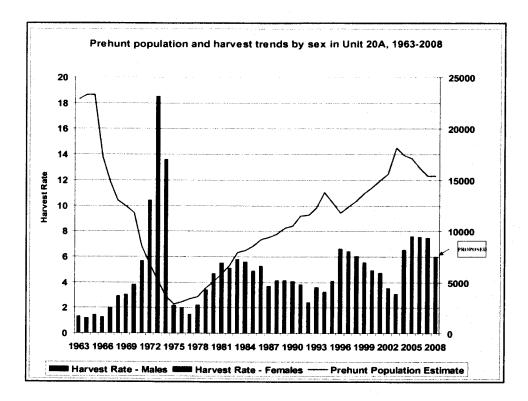
## **Furbearers**

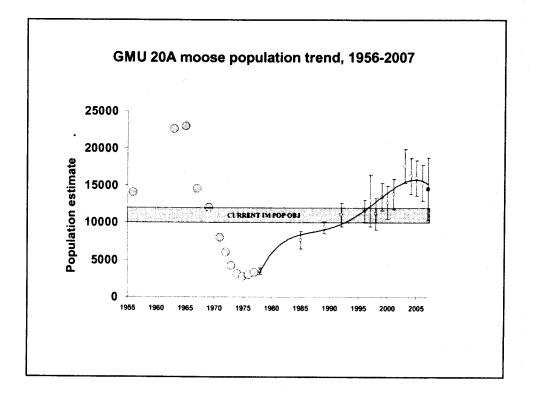
- Conduct annual lynx/hare track surveys (1 proposal)
- Lower Chena River beaver management program: successful
- ADF&G Regional proposal: simplify and liberalize beaver seasons and bag limits

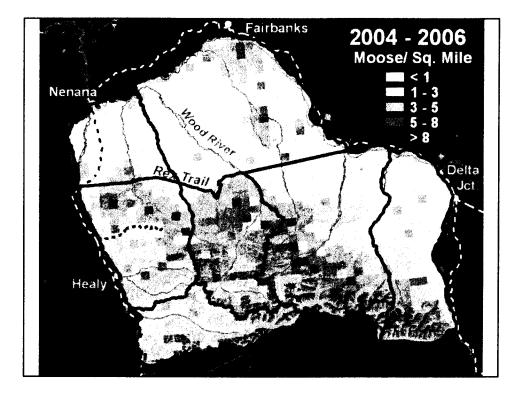




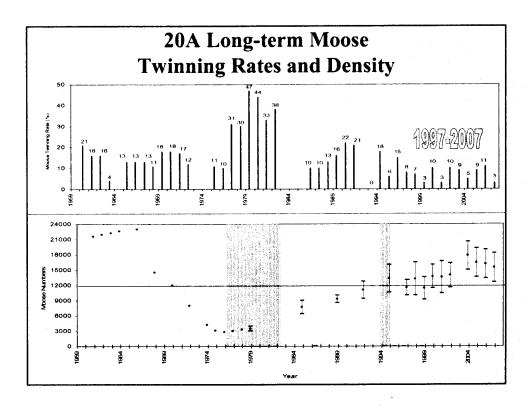


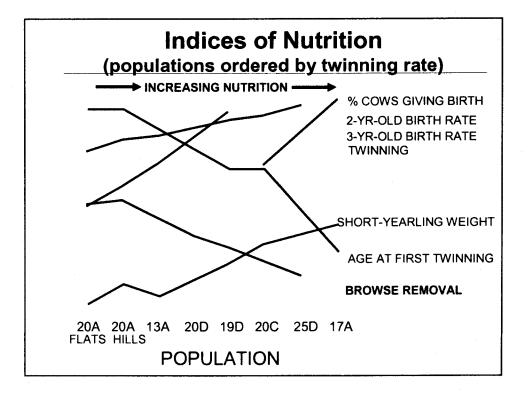


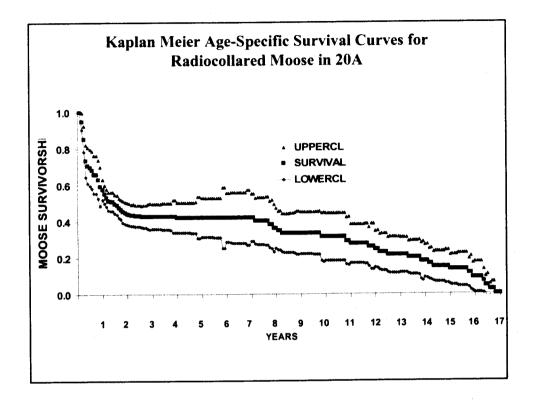


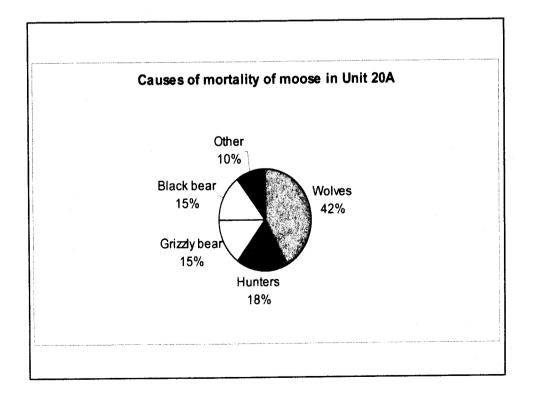


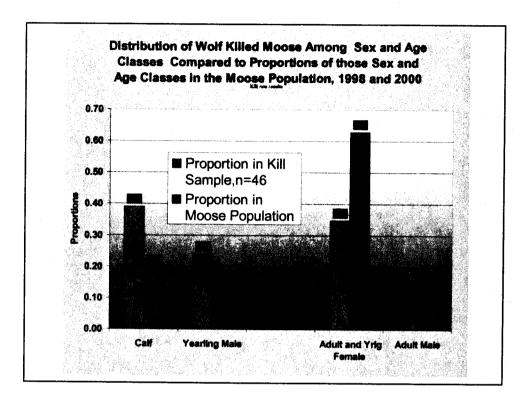




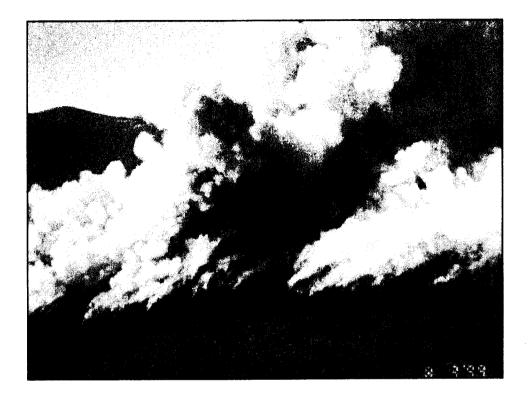


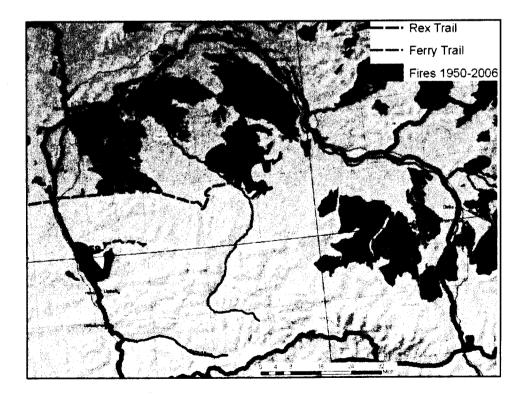


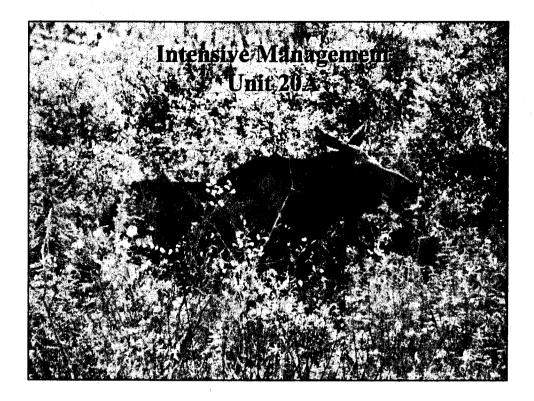


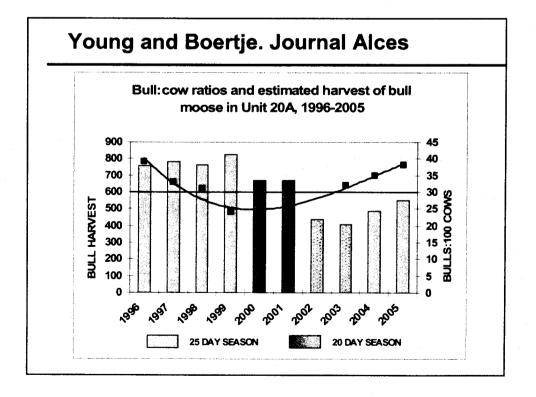


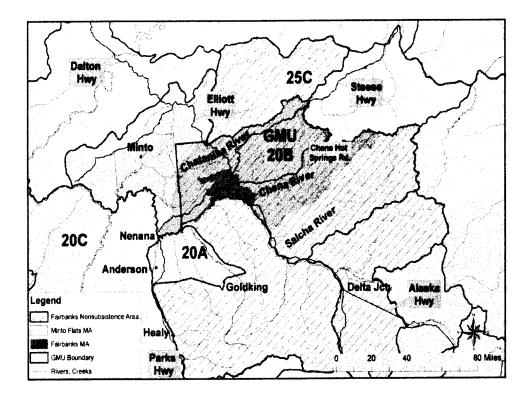






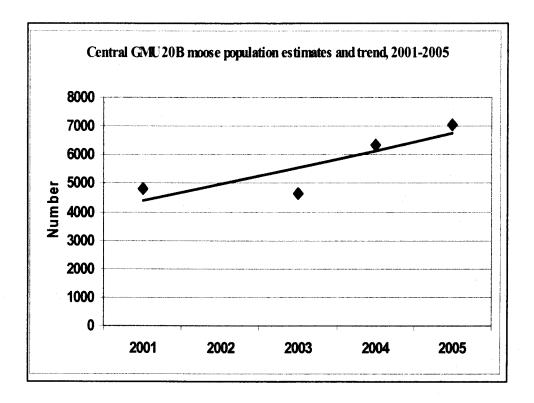


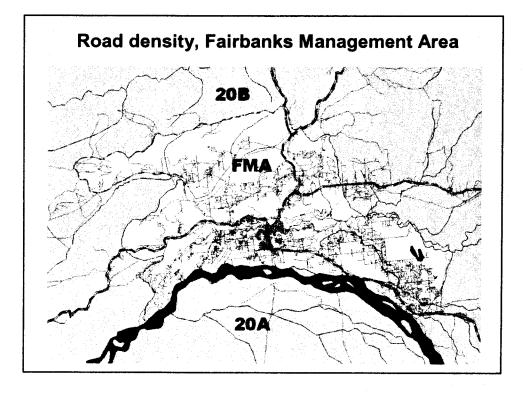


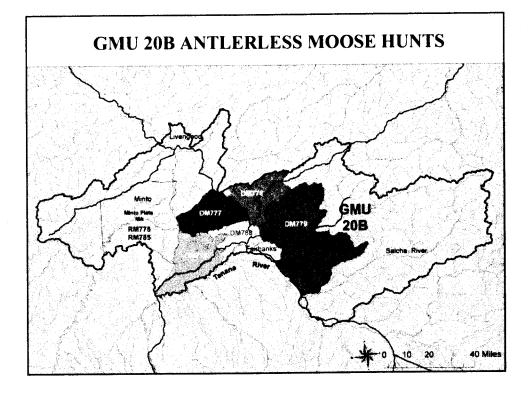


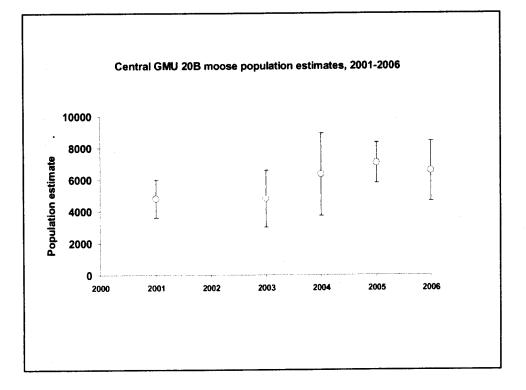
# Moose fall composition counts and estimated population size in central GMU 20B, 2001-2005

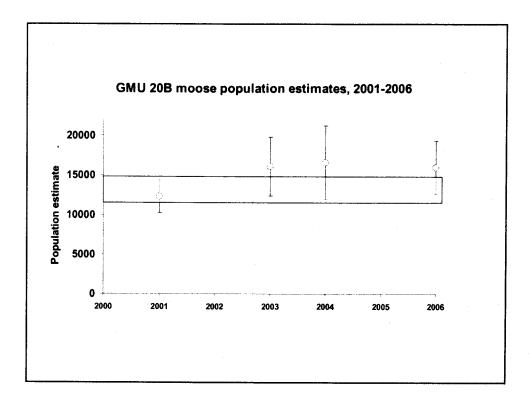
Regulatory	Bulls:	Yearlings:	Calves:		Population size	
year	100 Cows	100 Cowsª	100 Cows	Moose/mi <sup>2</sup>	(90% CI)	SCF=1.2
2001	27	13	34	1.0 <sup>b</sup>	4005 (±25%)	4806
2003	26	21	35	1.0 <sup>b</sup>	3883 (±39%)	4660
2004	33	22	46	1.4 <sup>b</sup>	5276 (±41%)	6331
2005	26	26	40	1.5 <sup>b</sup>	5881 (±18%)	7057
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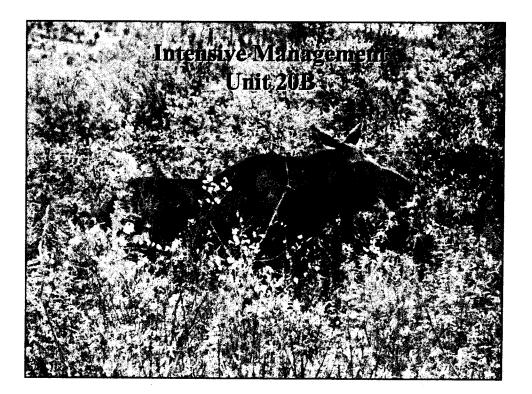


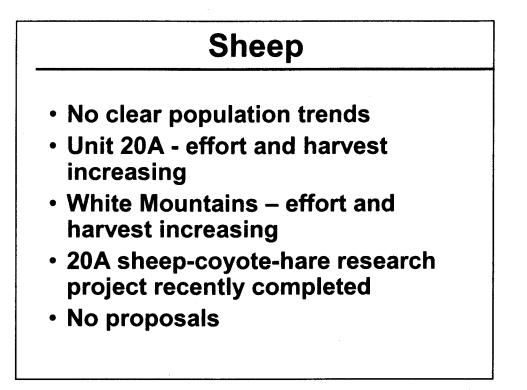


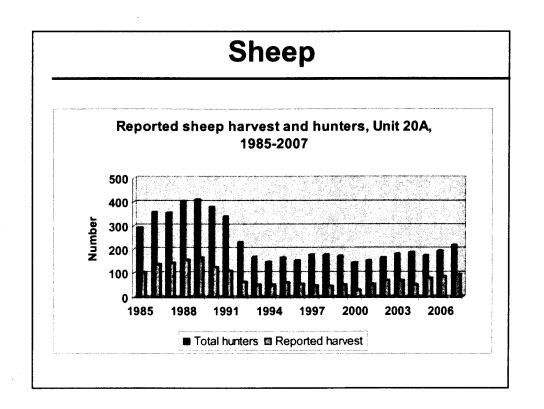


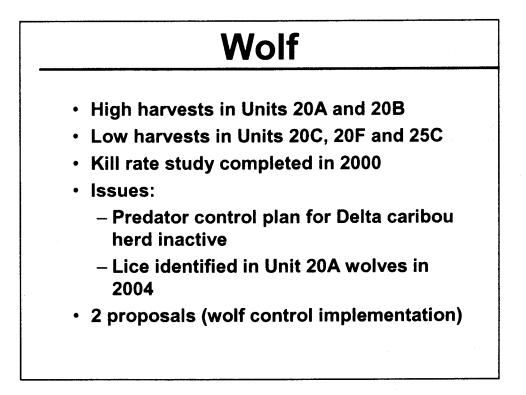


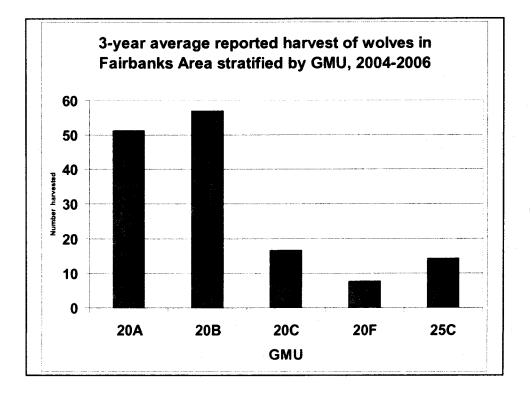


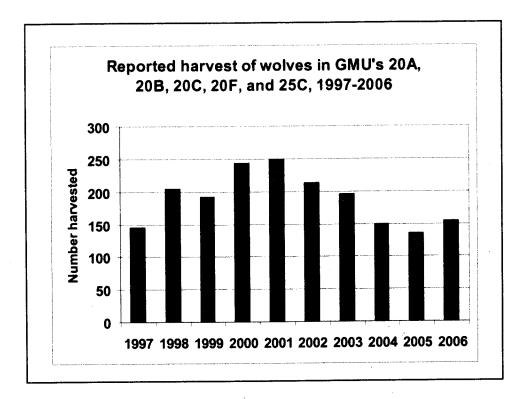


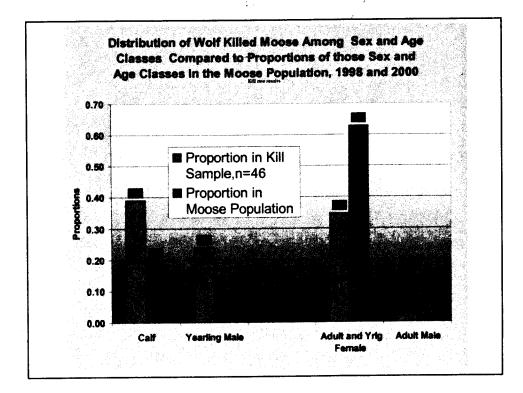


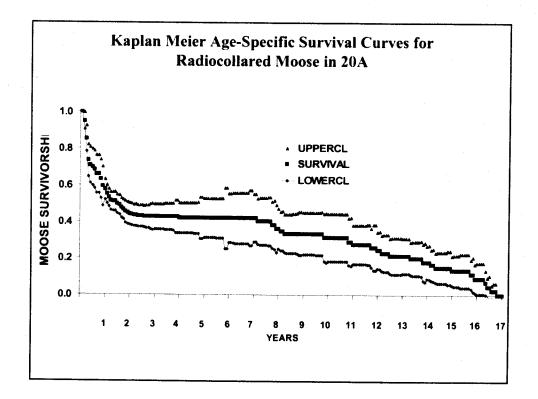


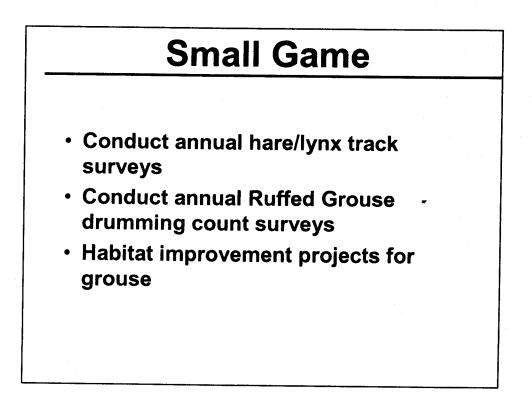


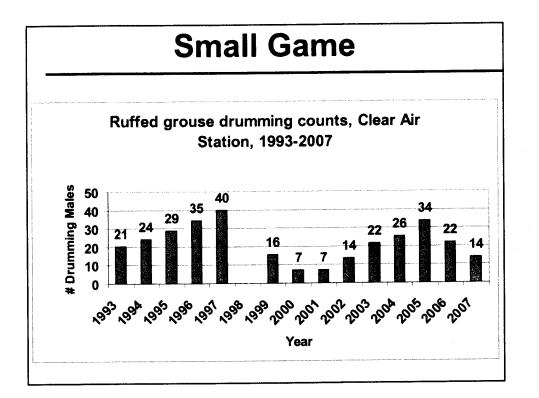












## Proposal 130 – GMU 20A Moose

#### EFFECT OF THE PROPOSAL:

#### •Reauthorize antlerless hunt

--Change antierless bag limit to "may not shoot a calf or cow accompanied by a calf"

KC 129

1

 Redistribute harvest and hunting pressure away from high access areas (e.g., roads, trails, river corridors)

•Increase "up to" language for "any bull" permits from 500 to 1000

### **DEPARTMENT RECOMMENDATION:** Staff proposal

Supported by all affected AC's

## Proposal 130 – GMU 20A Moose

#### RATIONALE:

Population exceeding IM objective

Population nutritionally stressed

•Liberal antlerless harvest important

(biologically and to meet IM mandates)

•Hunt provides considerable hunting opportunity

•Total harvest below IM objective

#### Proposal 130 – GMU 20A Moose

#### Overview:

Population trend and nutritional limitation

#### •Conservative antierless drawing hunt (1996-2003)

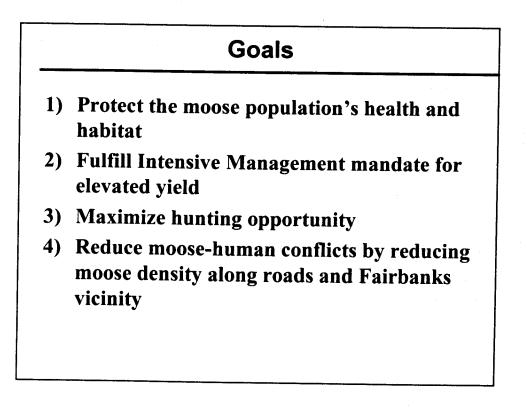
•Liberal antlerless registration hunt (2004-2007)

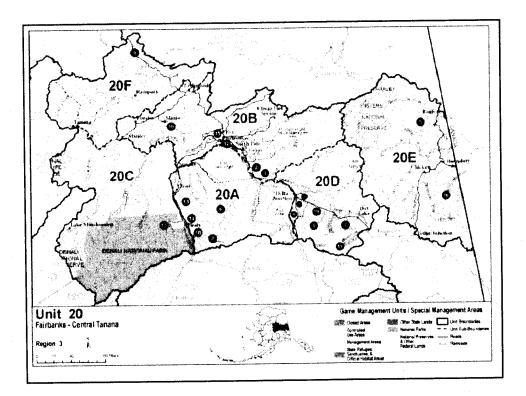
- -Hunt design
- -Harvest statistics
- -Harvest distribution

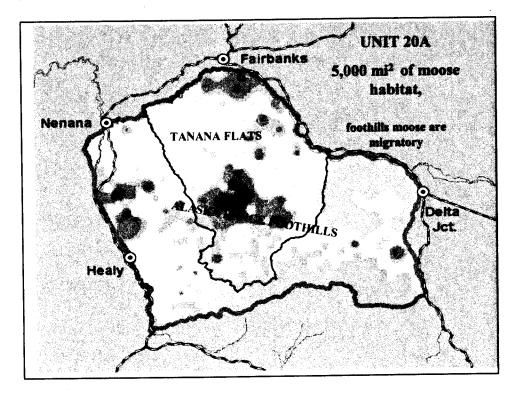
#### •Proposed changes

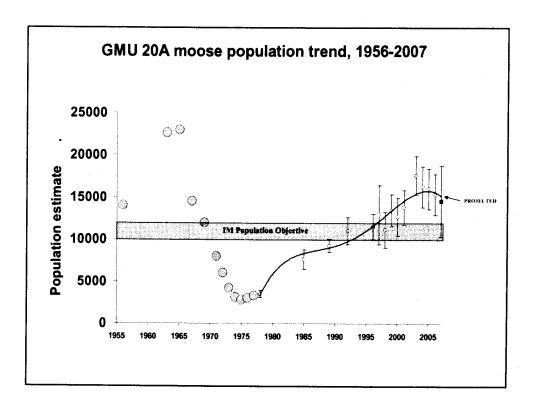
-Bag limit "may not take a calf or cow accompanied by calf"

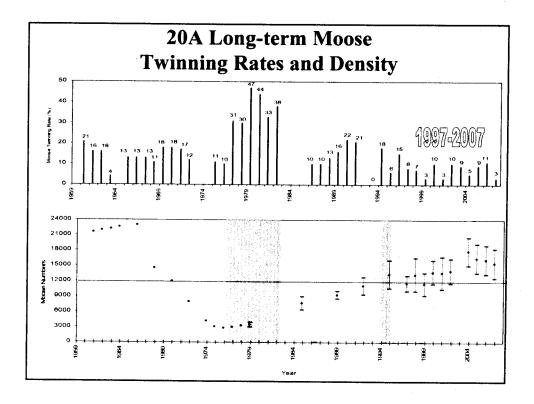
-Redistribute harvest and hunting pressure away from high access areas (e.g., roads, trails, river corridors) -Increase "up to language" for "any bull" permits from 500 to 1000

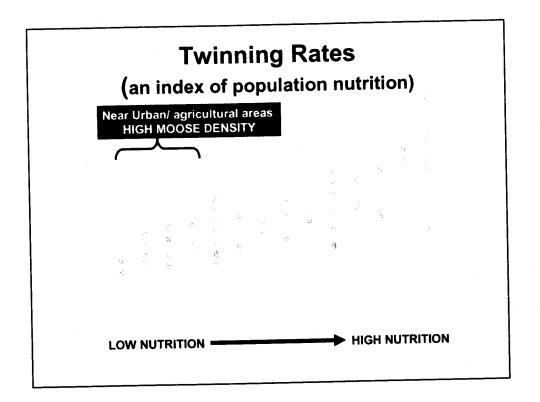


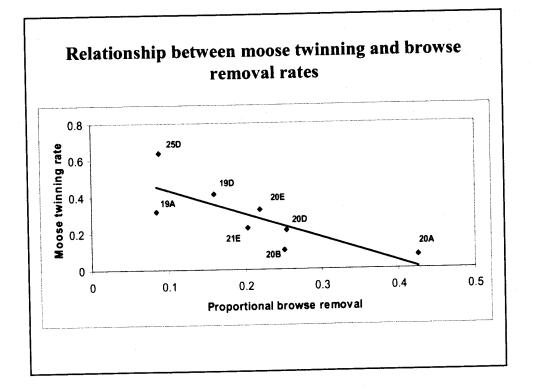


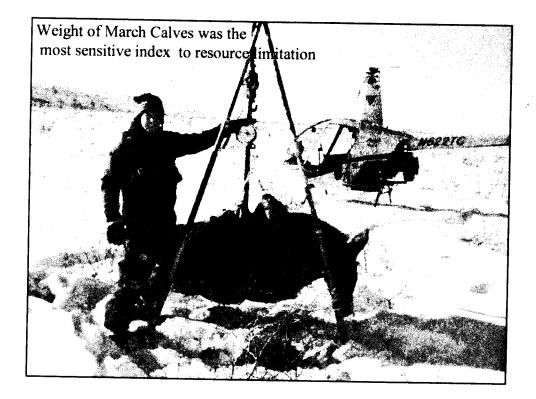


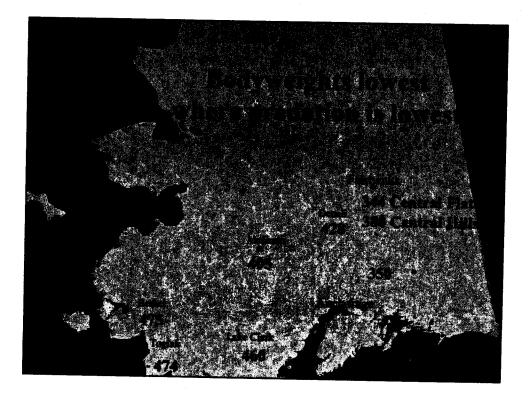


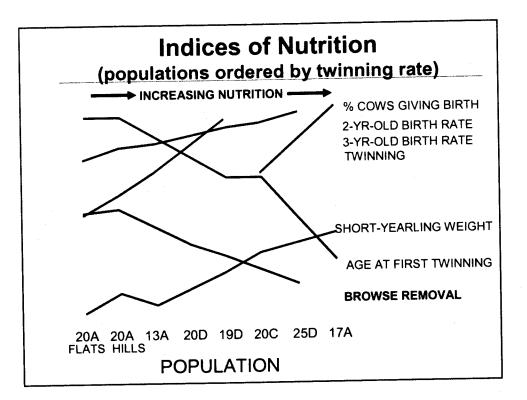


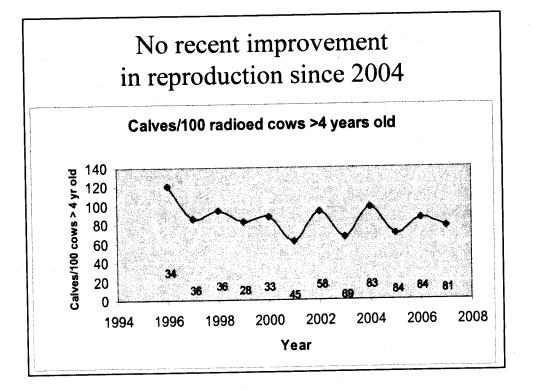






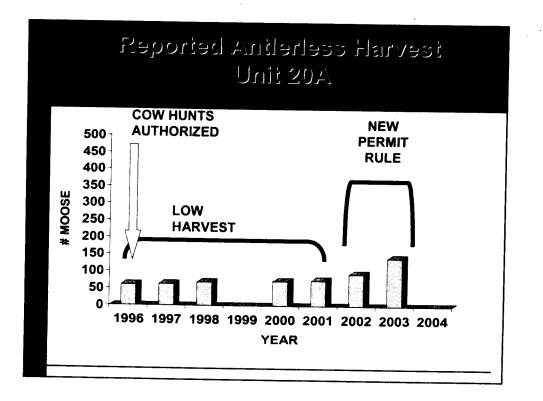


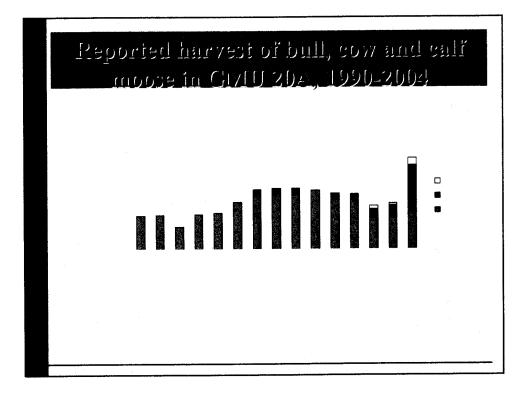


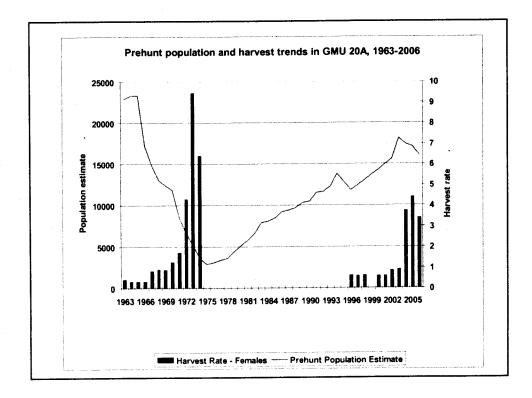


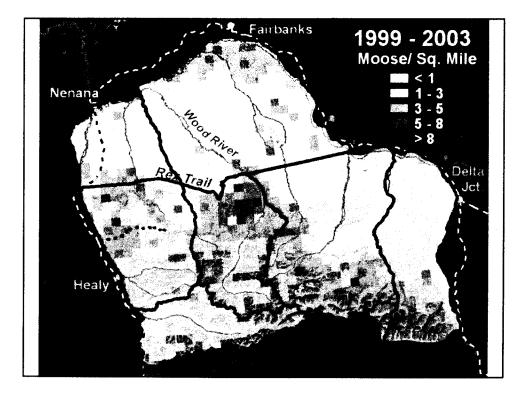
# **Nutritional Limitation Summary**

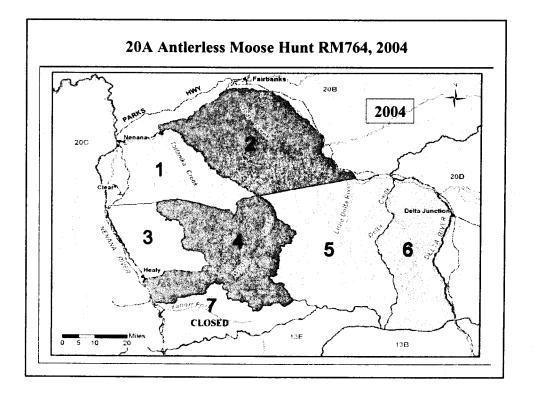
- Twinning and overall reproduction, bodyweights, and browse surveys indicate a low level of nutritional status in central 20A relative to elsewhere in Alaska.
- Bodyweights are most sensitive indicator of nutrition, but we observed <u>no</u> <u>improvement</u> yet with the reduction from 17,000 to 14,500 moose.
- o 300 females should be harvested to keep the population from increasing.
- If the population grows, we expect nutritional condition will decline; range damage will increase; and the <u>risk</u> of disease, starvation and predation, particularly during severe winters, will increase (i.e., population setback).

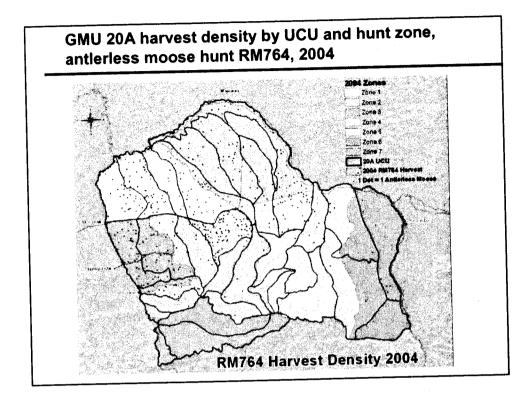


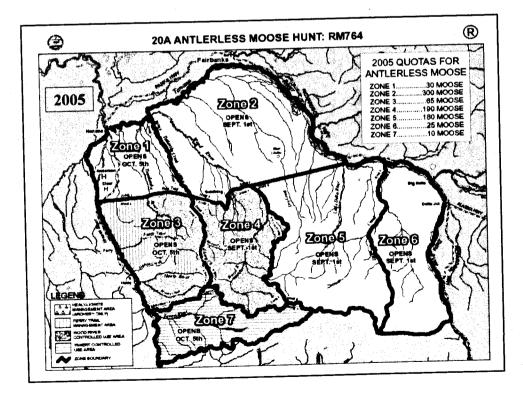


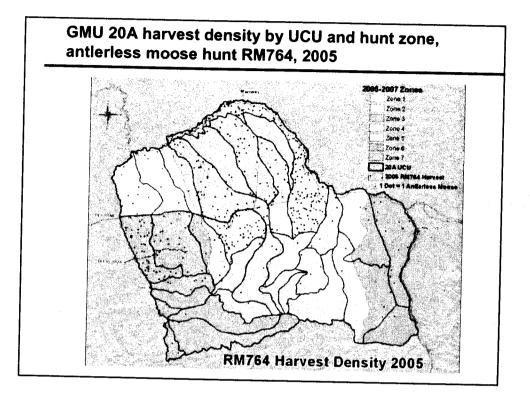


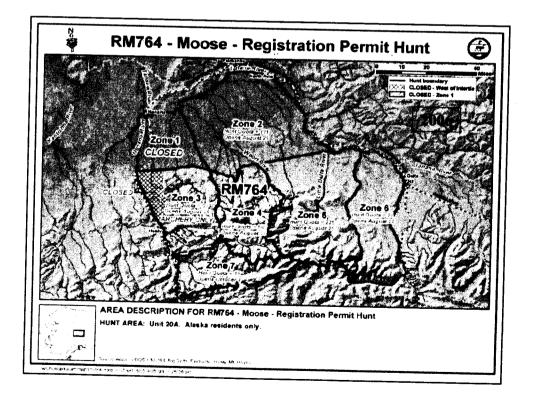


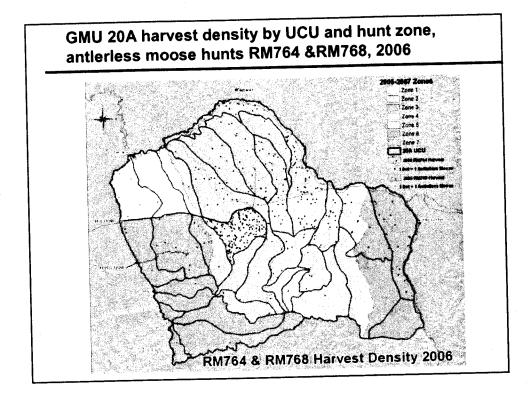


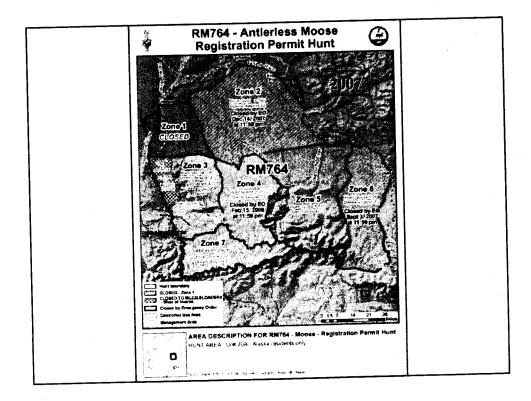


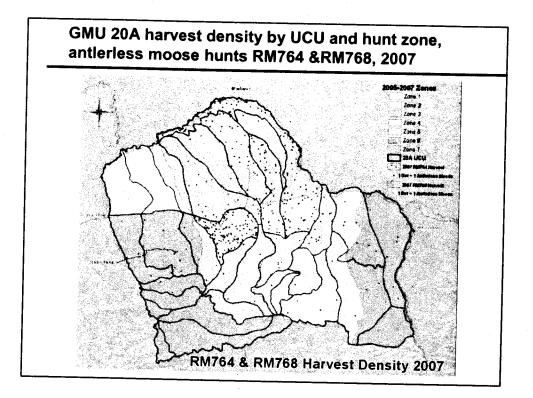


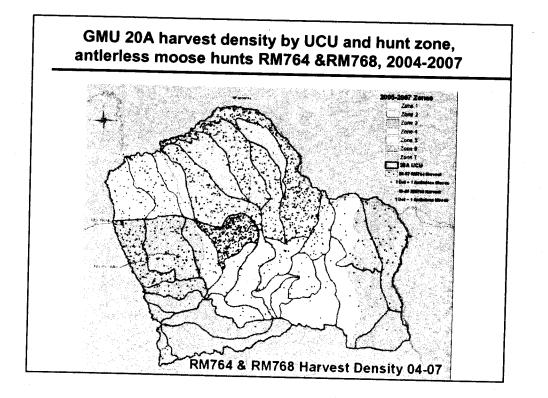




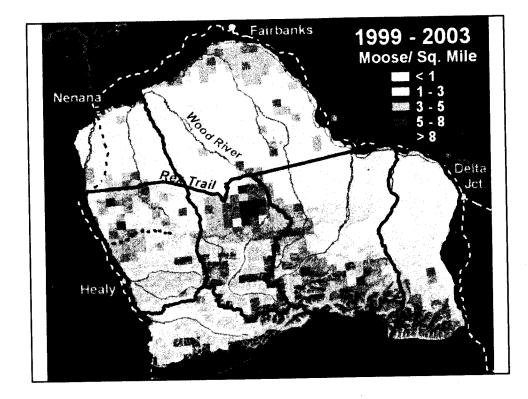




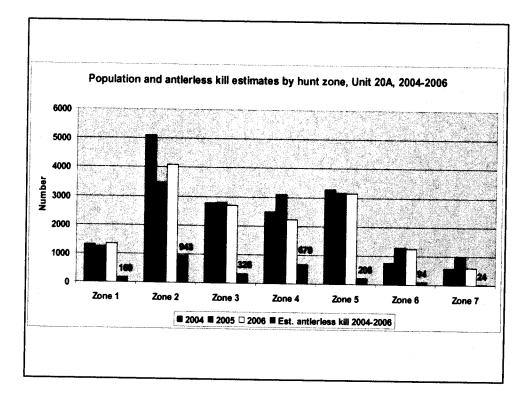


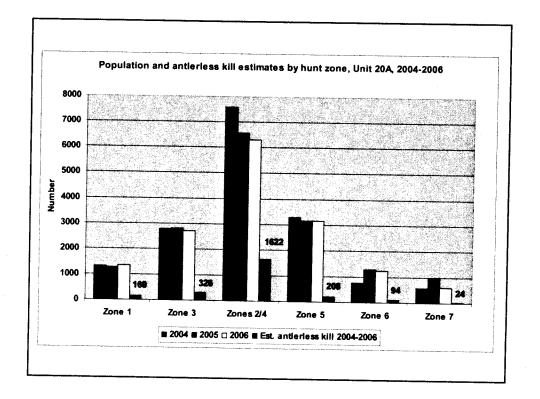


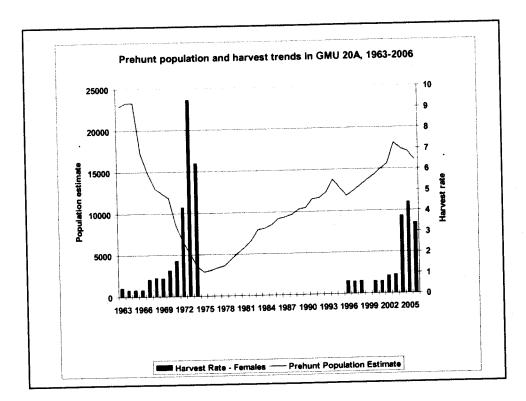
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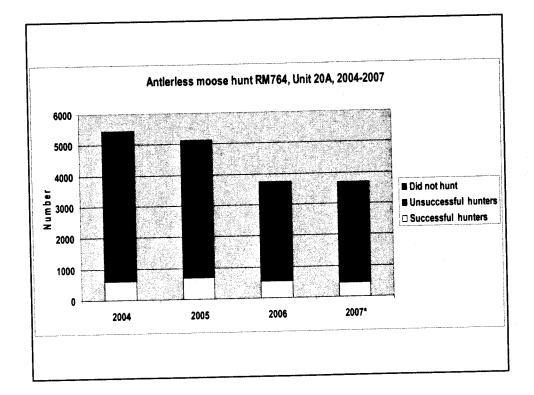


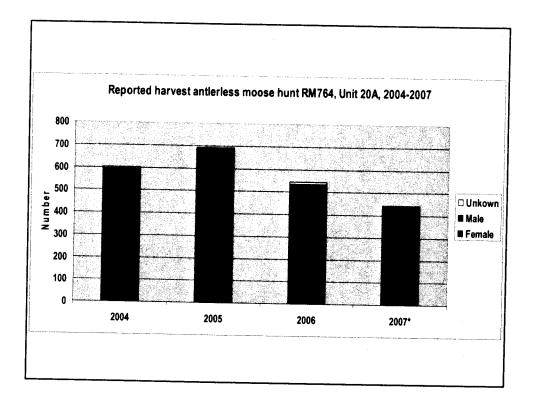
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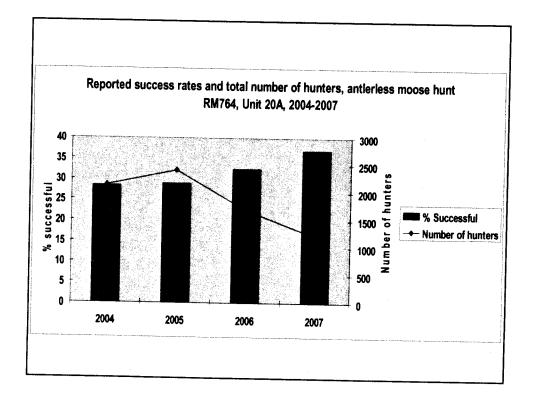


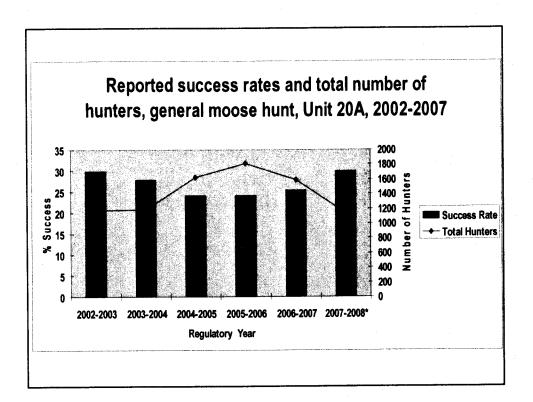


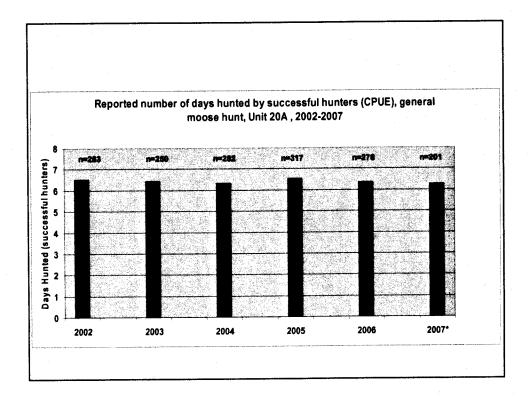


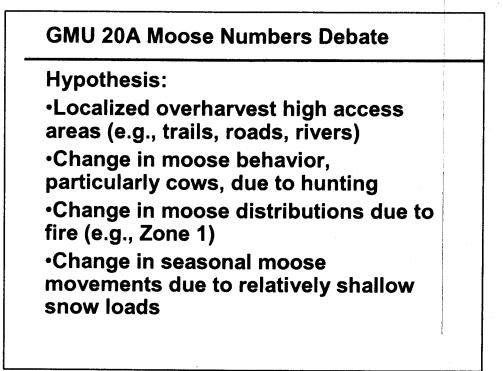


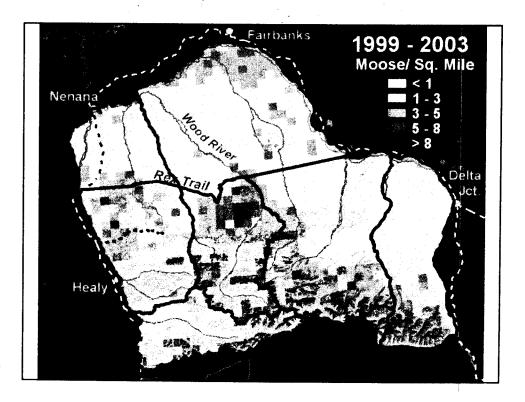


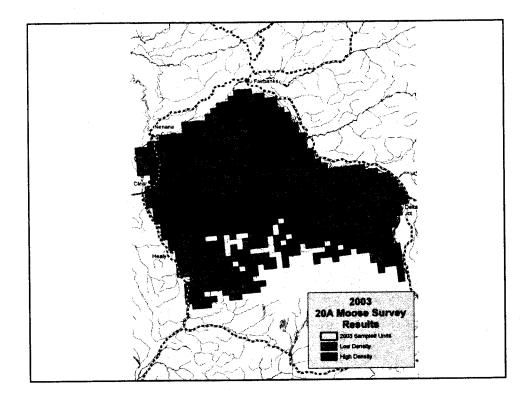


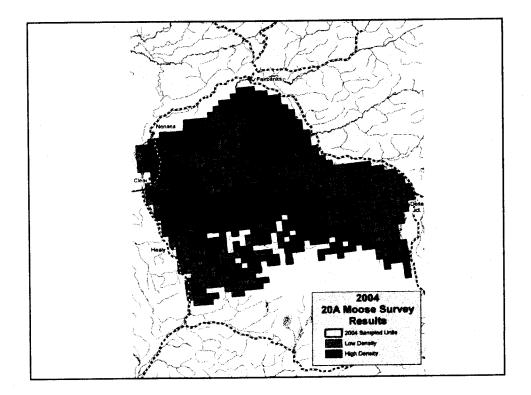


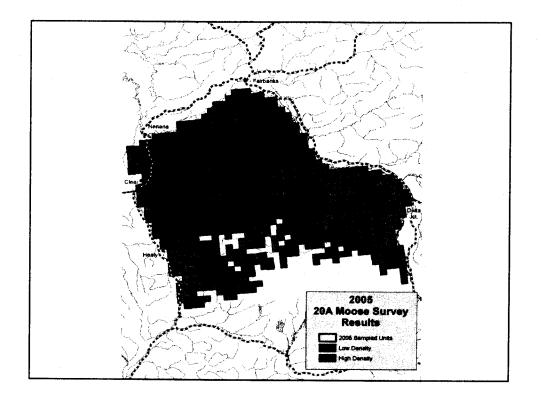


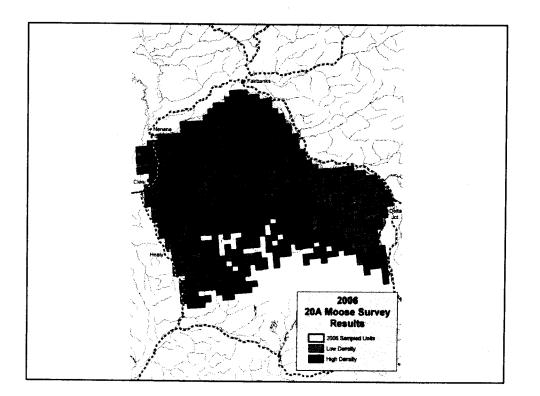


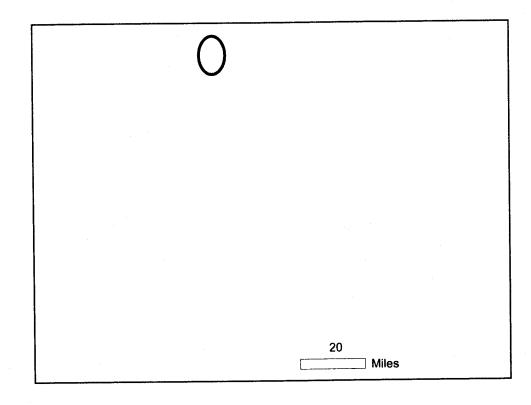


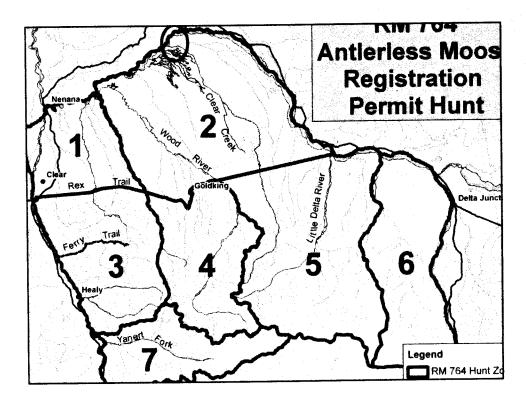


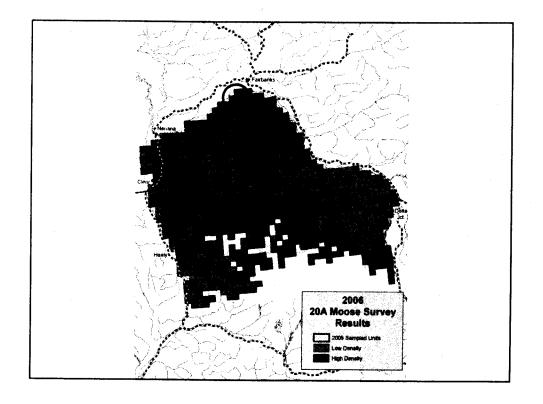


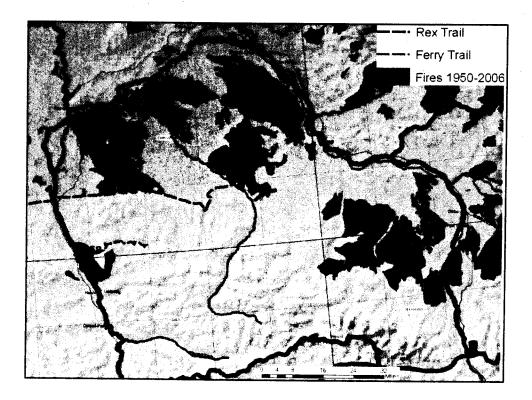


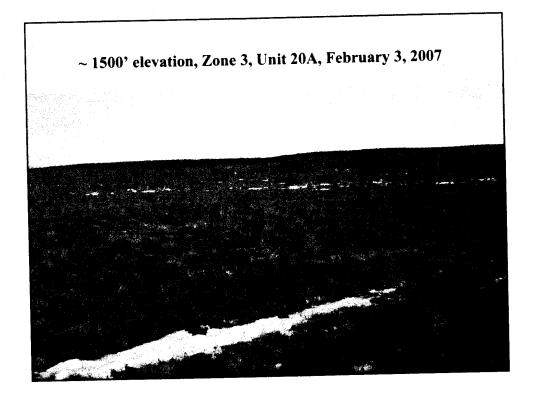


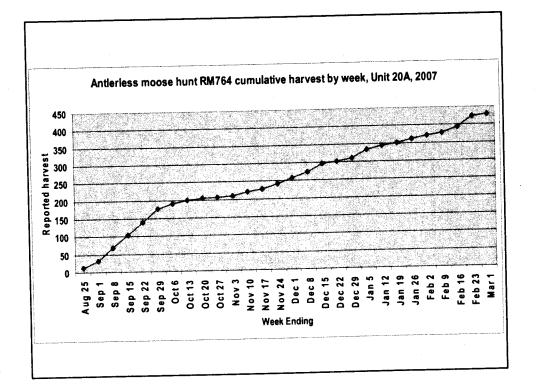


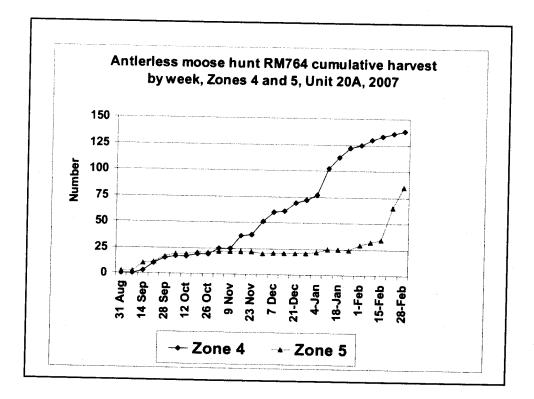


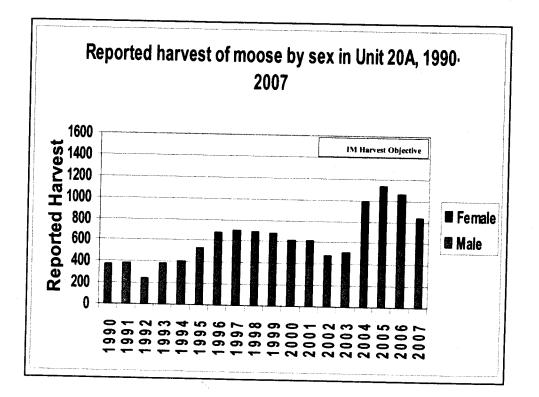


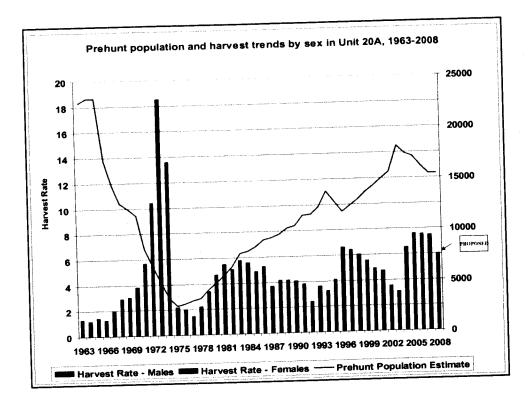


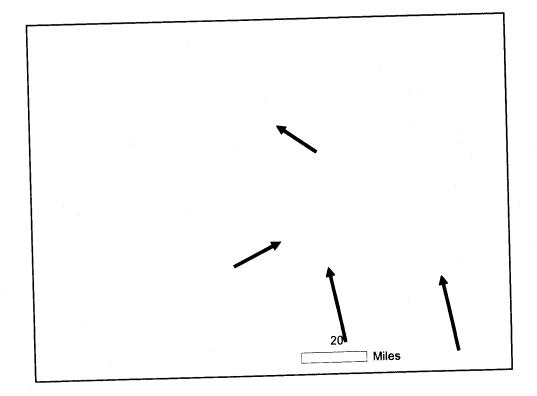


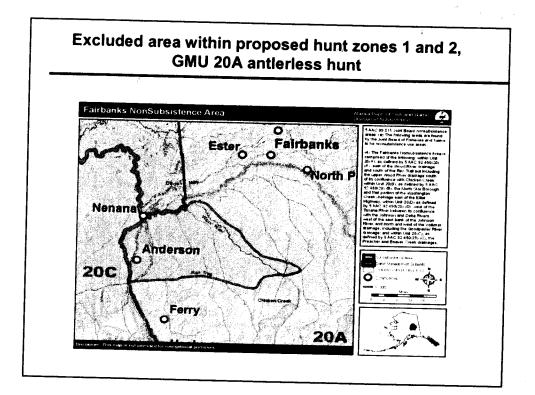


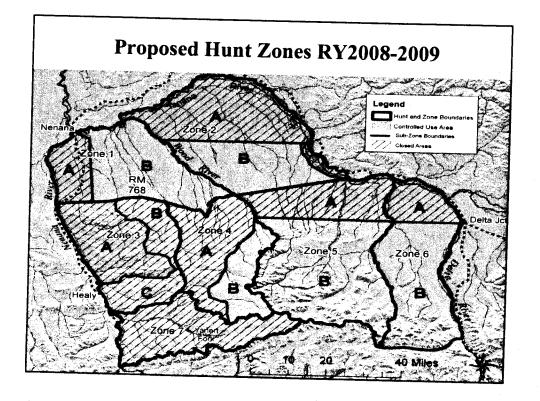


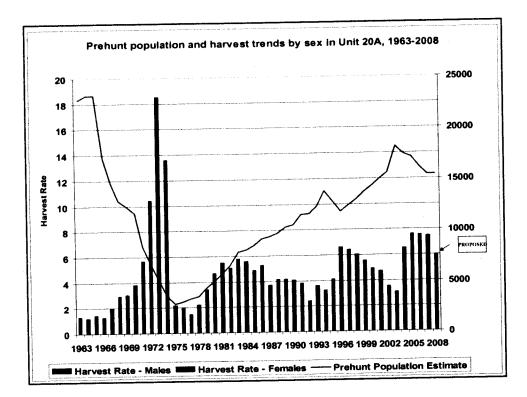


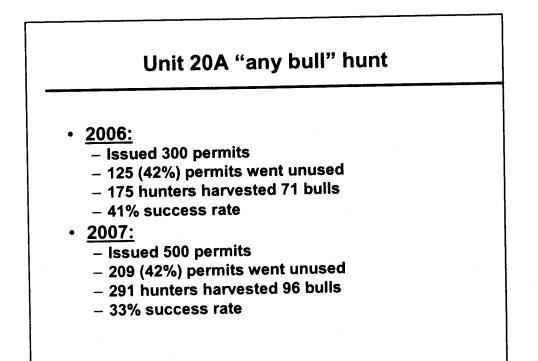






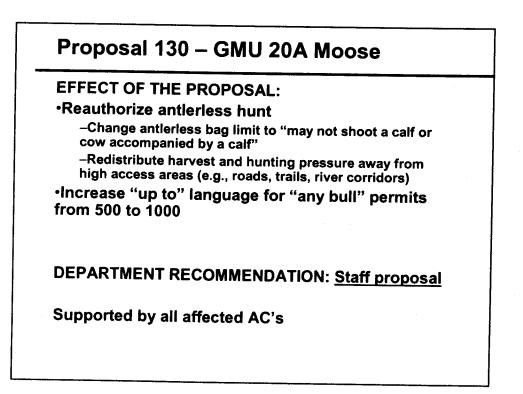






#### GMU 20A Harvest Strategy

- <u>Antler restrictions</u> limit harvest of bull moose; reduce hunting pressure; retain longer seasons
- <u>"Any bull" drawing permits</u> maximize harvest; optimize harvest distribution; meet IM mandate for high harvests
- <u>Antlerless harvest</u> population regulation; meet IM mandate for high harvests



# Proposal 131 – GMU 20B Moose

EFFECT OF THE PROPOSAL:

•Reauthorize antlerless hunts in Fairbanks area and **Minto Flats MA** •Change antierless bag limit to "may not shoot a calf or cow accompanied by a calf" (Central Unit 20B hunts only)

DEPARTMENT RECOMMENDATION: Staff proposal

**RATIONALE:** 

 Moose populations in central GMU 20B at high densities and were increasing

Slow population growth

•Provide additional hunting opportunity

•Potentially reduce road kill in Fairbanks area

# Proposal 131 – GMU 20B Moose

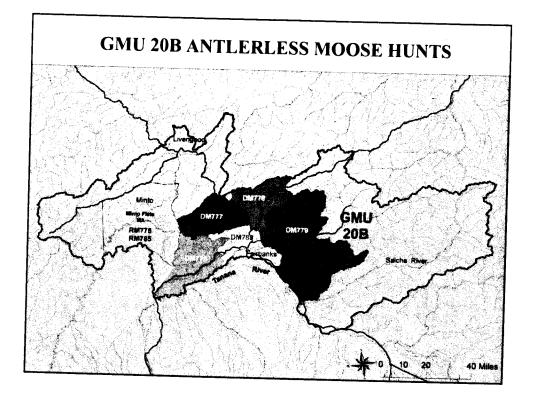
**Overview**:

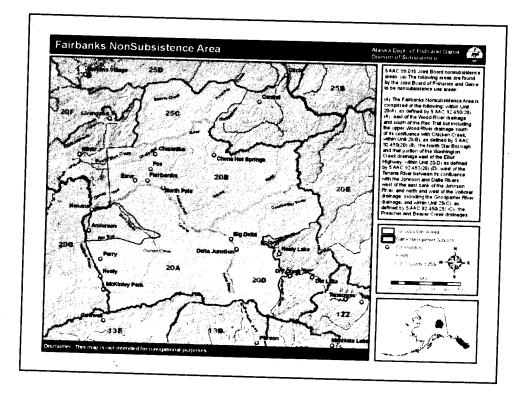
•Unit 20B population trend, IM population and harvest objectives

•Central Unit 20B antlerless hunts

•Fairbanks Management Area (FMA)

Minto Flats Management Area (MFMA)

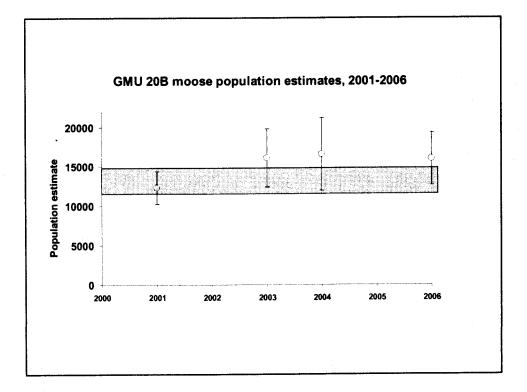






#### **OBJECTIVES**

- Population objective 12,000 15,000 moose
- Harvest objective 600 1,500 moose
- Manage for 30 bulls:100 cows (posthunt)



#### Proposal 131 – GMU 20B Moose

**EFFECT OF THE PROPOSAL:** 

•Reauthorize antlerless hunts by drawing permit in central portion of Unit 20B (Sept 1-30; up to 300 permits)

•Change antierless bag limit to "may not shoot a calf or cow accompanied by a calf" (Central Unit 20B hunts only)

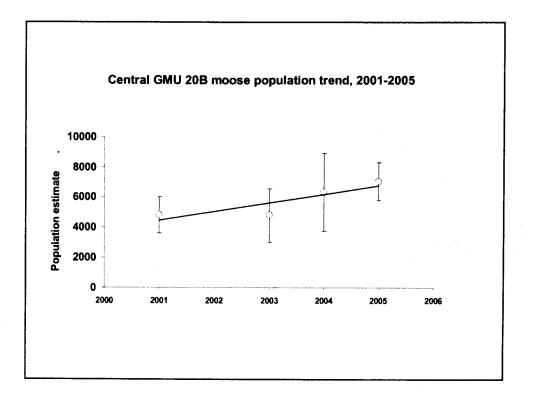
#### **RATIONALE:**

•Moose population in central Unit 20B at high density and increasing

•Hunts aimed at slowing population growth

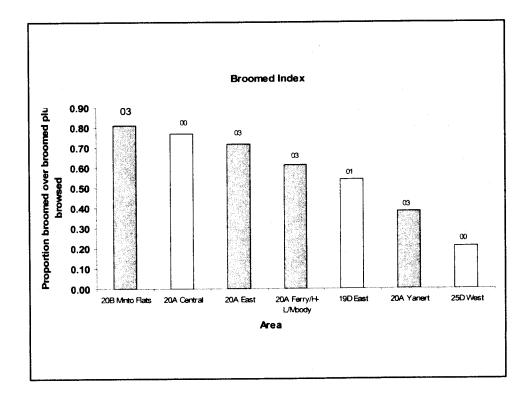
Provide additional hunting opportunity

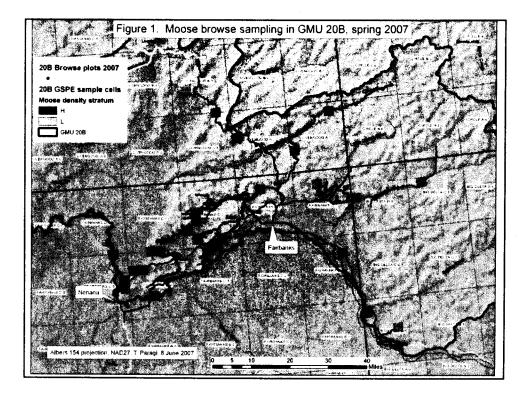
•Potentially reduce road kill in Fairbanks area

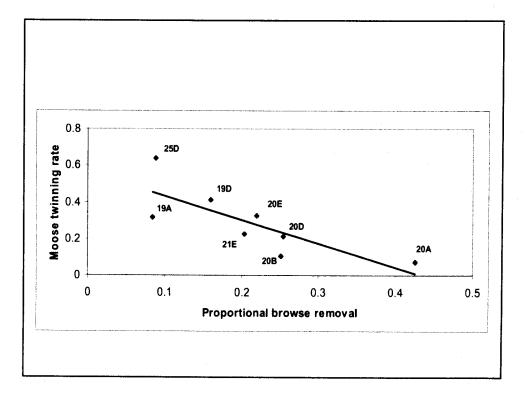


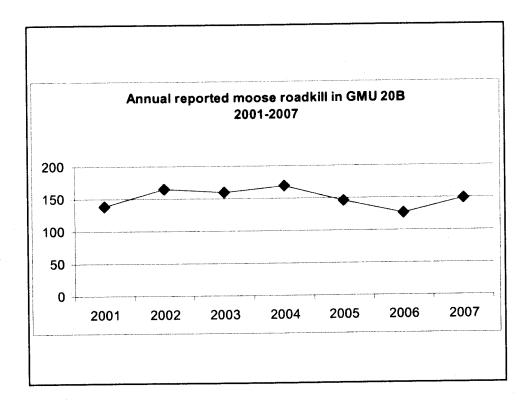
# Moose fall composition counts and estimated population size in central GMU 20B, 2001-2005

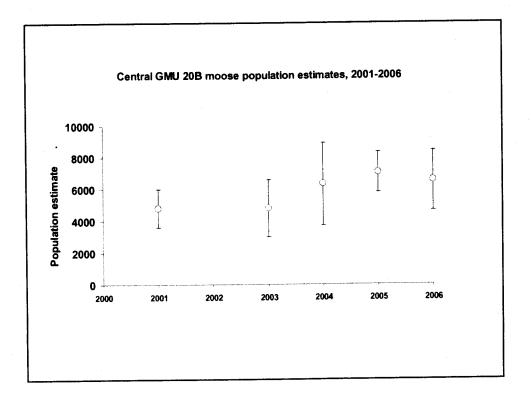
Regulatory	Bulls:	Yearlings:	Calves:	Population size		
year	100 Cows	100 Cows <sup>a</sup>	100 Cows	Moose/mi²	(90% CI)	SCF=1.2
2001	27	13	34	1.0 <sup>b</sup>	4005 (±25%)	4806
2003	26	21	35	1.0 <sup>b</sup>	3883 (±39%)	4660
2004	33	22	46	1.4 <sup>b</sup>	5276 (±41%)	6331
2005	26	26	40	1.5 <sup>b</sup>	5881 (±18%)	7057

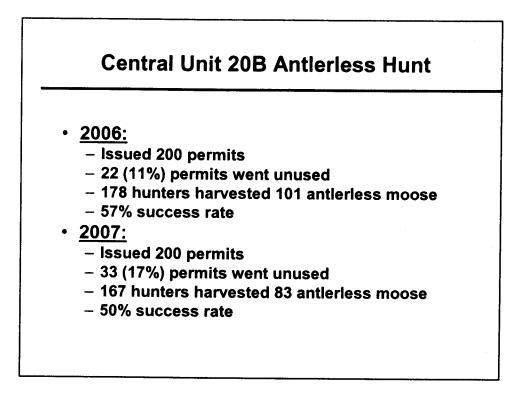


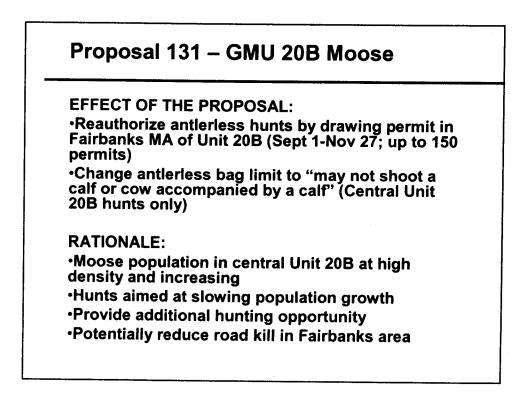


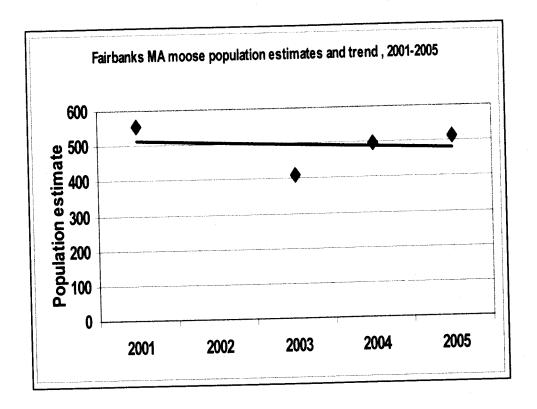


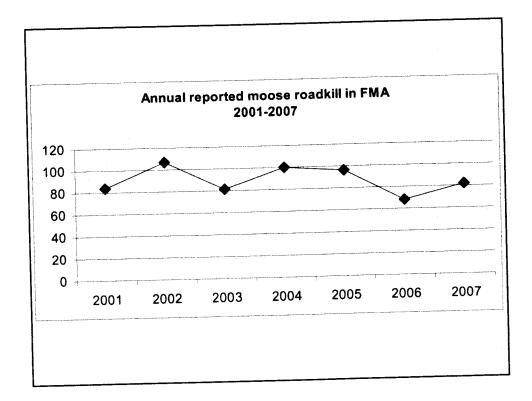


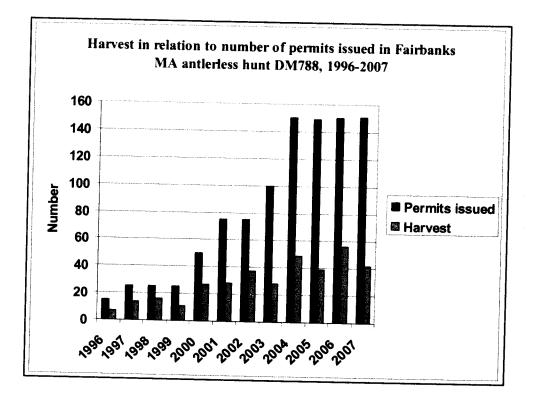


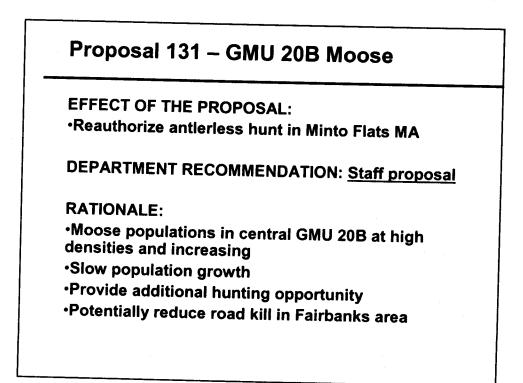


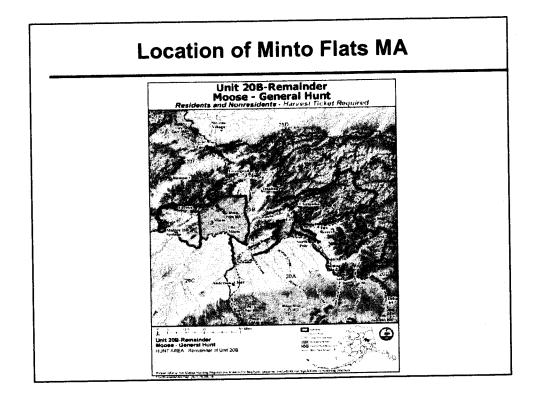




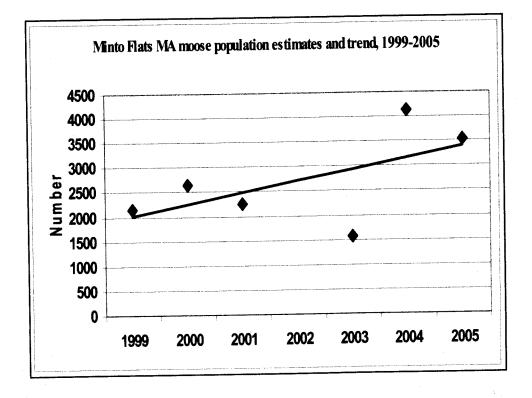


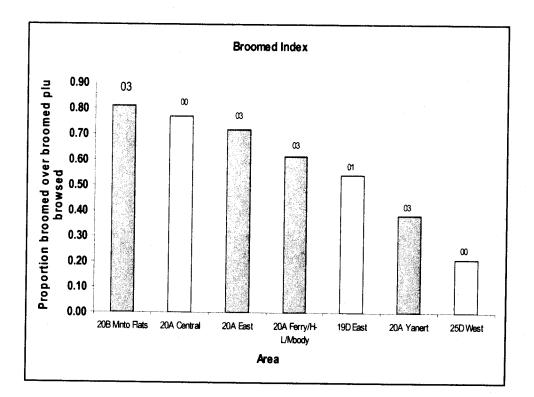


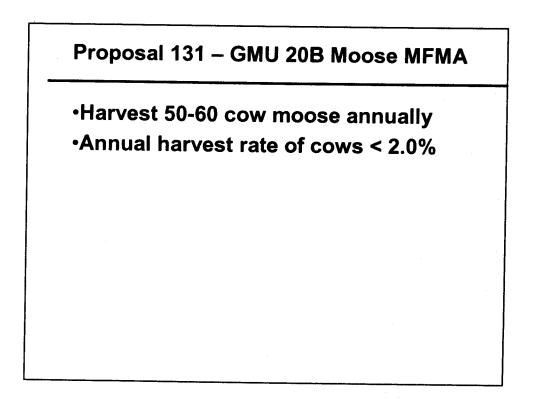




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## Proposal 131 – GMU 20B Moose

EFFECT OF THE PROPOSAL:

•Reauthorize antierless hunts in Fairbanks area and Minto Flats MA •Change antierless bag limit to "may not shoot a calf or cow accompanied by a calf" (Central Unit 20B hunts only)

DEPARTMENT RECOMMENDATION: Staff proposal

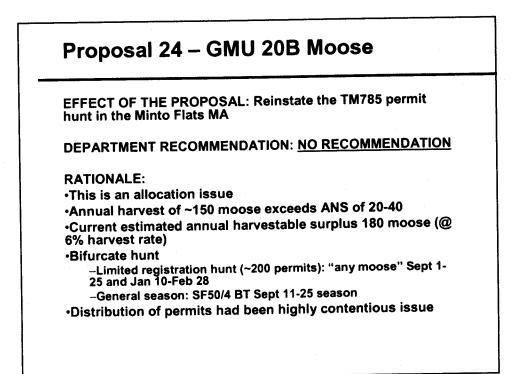
RATIONALE:

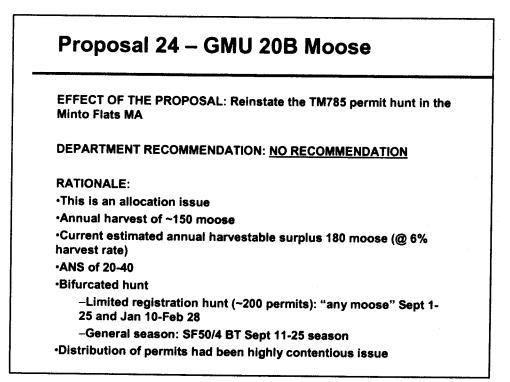
•Moose populations in central GMU 20B at high densities and were increasing

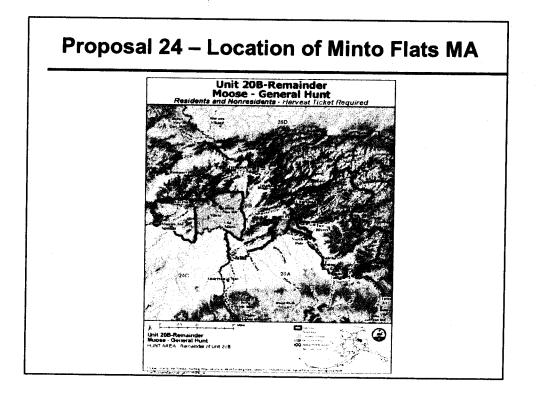
Slow population growth

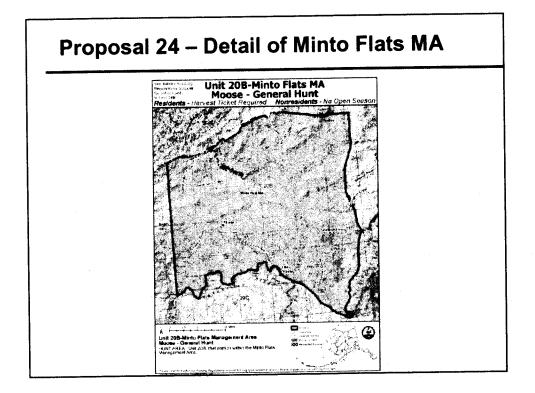
Provide additional hunting opportunity

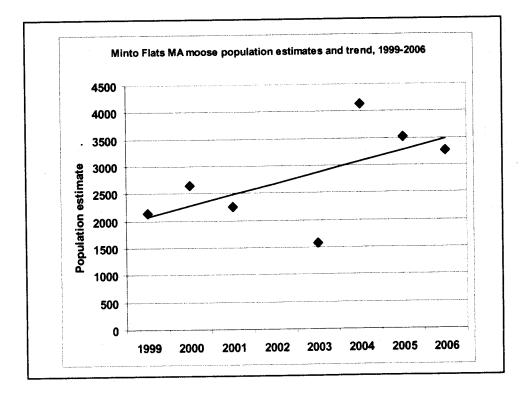
•Potentially reduce road kill in Fairbanks area

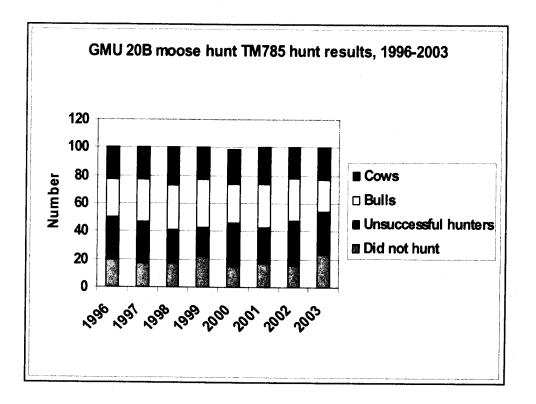


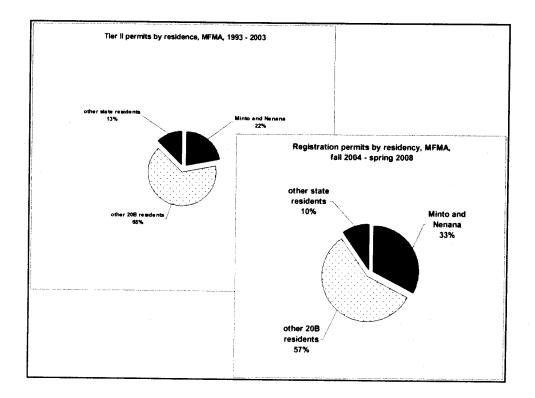


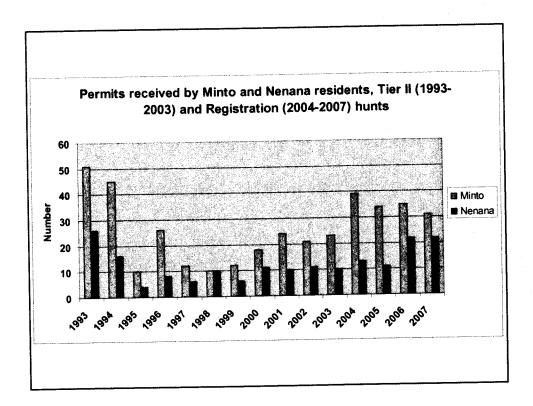


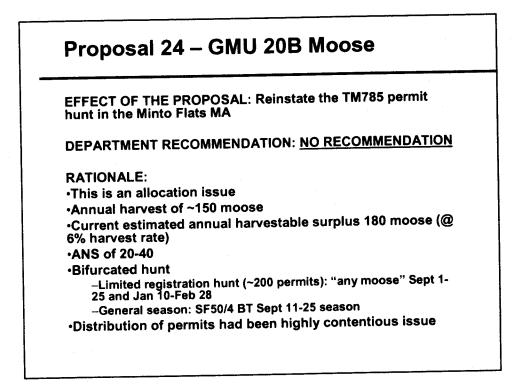












## Proposal 25 – GMUs 20A, B Moose

**EFFECT OF THE PROPOSAL:** 

•Eliminate the antlerless hunts in Units 20A and 20B

DEPARTMENT RECOMMENDATION: TAKE NO ACTION

**RATIONALE: See staff proposals 130 and 131.** 

Proposal 27 – GMUs 20A, B Moose

**EFFECT OF THE PROPOSAL:** 

•Eliminate the antlerless hunts in Units 20A and 20B

DEPARTMENT RECOMMENDATION: TAKE NO ACTION

**RATIONALE: See staff proposals 130 and 131.** 

# Proposal 28 – GMUs 20A, B Moose

**EFFECT OF THE PROPOSAL:** 

•Eliminate the antlerless hunts in Units 20A and 20B

DEPARTMENT RECOMMENDATION: TAKE NO ACTION

RATIONALE: See staff proposals 130 and 131.

# Proposal 36 – GMUs 20A, B, D Moose

EFFECT OF THE PROPOSAL:

•Eliminate the antierless hunts in Units 20A, 20B and 20D

DEPARTMENT RECOMMENDATION: <u>TAKE</u> NO <u>ACTION</u>

RATIONALE: See staff proposals 130, 131 and 135.

## Proposal 19 - GMU 20 Moose

EFFECT OF THE PROPOSAL: •Shift seasons to open later in GMUs 20A,B,C,D,E and F

DEPARTMENT RECOMMENDATION: DO NOT ADOPT

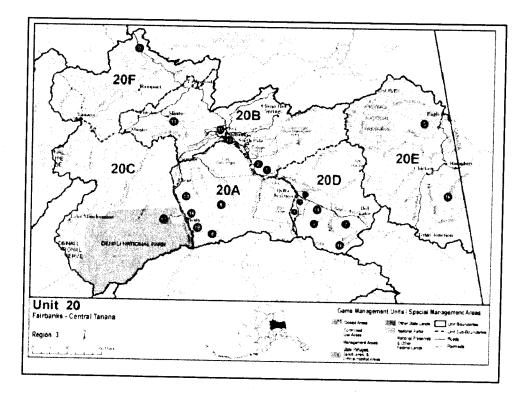
#### **RATIONALE:**

•Unit 20 is a large, geographically diverse area

•Season dates vary considerably across the unit

•Many factors considered when setting season dates

•Moving season dates back based only on apparent changing weather patterns while ignoring other factors may raise other biological or allocative issues



## Proposal 19 – GMU 20 Moose

EFFECT OF THE PROPOSAL: •Move moose seasons back in GMUs 20A,B,C,D,E and F

DEPARTMENT RECOMMENDATION: DO NOT ADOPT

#### RATIONALE:

•Unit 20 is a large, geographically diverse area
•Season dates vary considerably across the unit.
•Many factors considered when setting season dates.
•Moving season dates back based only on apparent changing weather patterns while ignoring other factors may raise other biological or allocative issues.
•This proposal would be better addressed at regional or

•This proposal would be better addressed at regional o statewide level at a later date.

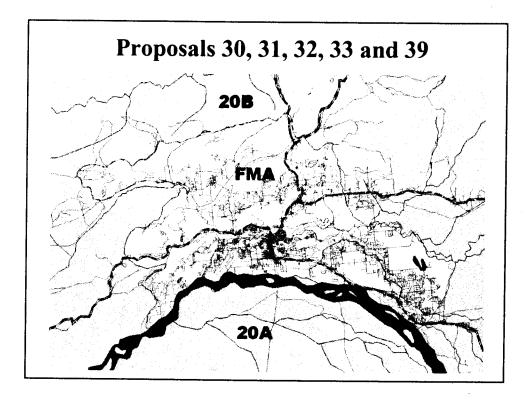
## Proposal 29 and 34

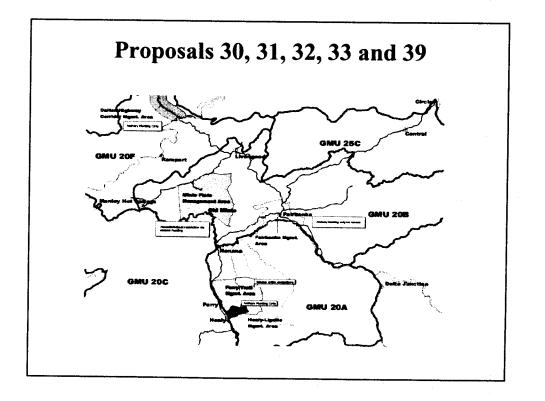
•EFFECT OF PROPOSAL: Move moose season later due to warming weather

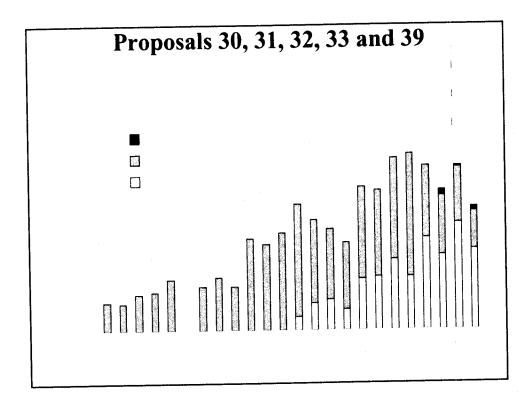
DEPARTMENT RECOMMENDATION: <u>Take No Action</u>

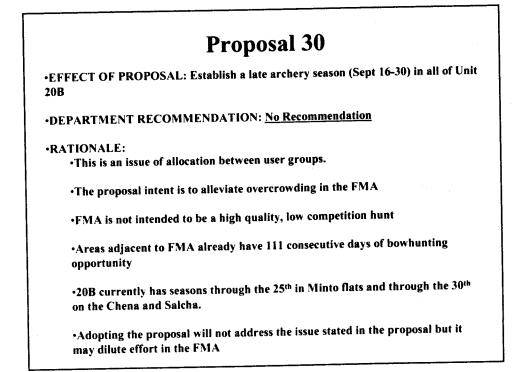
**•RATIONALE:** 

•Proposal 19 covers this issue for a broader geographic area









## **Proposal 39**

•EFFECT OF PROPOSAL: Establish a late archery season (Sept 1-30) in all of Unit 20B

•DEPARTMENT RECOMMENDATION: Take No Action

•RATIONALE: •Proposal 30

## **Proposal 31**

•EFFECT OF PROPOSAL: Shorten the archery bull season in the FMA from 37 days to 10.

•DEPARTMENT RECOMMENDATION: No Recommendation

**•RATIONALE:** 

•This is an issue of allocation between user groups.

•The proposal intent is to alleviate overcrowding in the FMA and reduce moose-vehicle collisions

•FMA is not intended to be a high quality, low competition hunt

•Adopting the proposal would reduce the season by 73%, and will not address the issue stated in the proposal

# Proposal 32

•EFFECT OF PROPOSAL: Make a borough-wide cow permit hunt in 20B Sept 1-15, that turns into late archery season (Sept 16-30) for cow moose.

•DEPARTMENT RECOMMENDATION: No Recommendation

#### •RATIONALE:

•This is an issue of allocation between user groups.

•The proposal intent is to alleviate overcrowding in the FMA

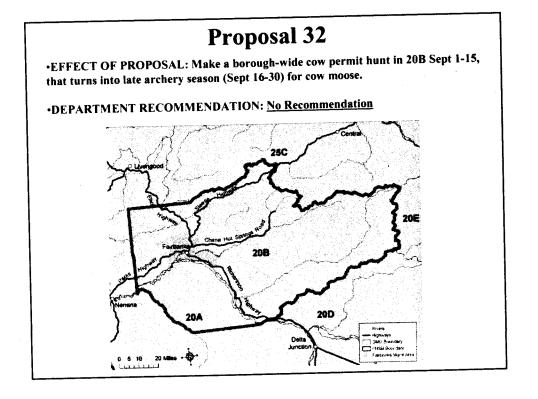
•FMA is not intended to be a high quality, low competition hunt

•Much of southwestern Unit 20A had 188 days of bowhunting-only seasons in 2007

•Adopting the proposal will not address the issue stated in the proposal

•The borough boundary would be difficult for hunters and law enforcement to follow because it is not easily identifiable in the field.

•Already cow hunts by drawing permit in the same area with good boundaries within which archery is allowed.



## **Proposal 33**

•EFFECT OF PROPOSAL: Restrict winner of drawing permits for moose within the FMA to only hunt in the FMA

•DEPARTMENT RECOMMENDATION: No Recommendation

#### **•RATIONALE:**

•This is an issue of allocation between user groups.

•Proposal is vague, but intent might be to decrease the number of permit applicants for the FMA antlerless hunt

•Taking away the freedom to hunt moose statewide for a regulatory year is unprecedented.

•The proposal would likely reduce the number of applicants, but is unlikely to increase the number of moose taken

•In 2007, 150 permit holders reported taking 42 moose

## Proposal 23 – GMU 20 Moose

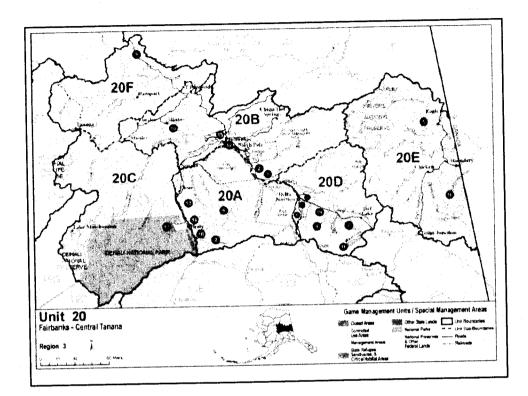
EFFECT OF THE PROPOSAL: •Eliminate the spike-fork season in GMUs 20A,B, and D

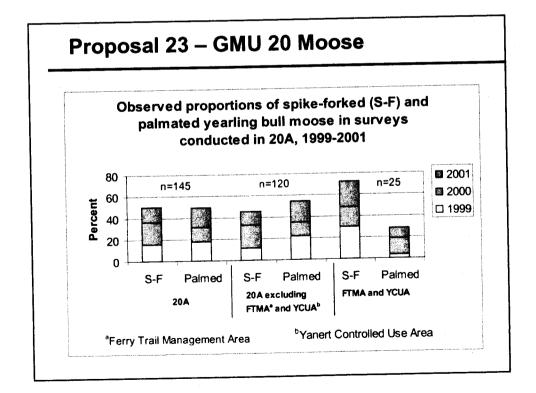
DEPARTMENT RECOMMENDATION: DO NOT ADOPT

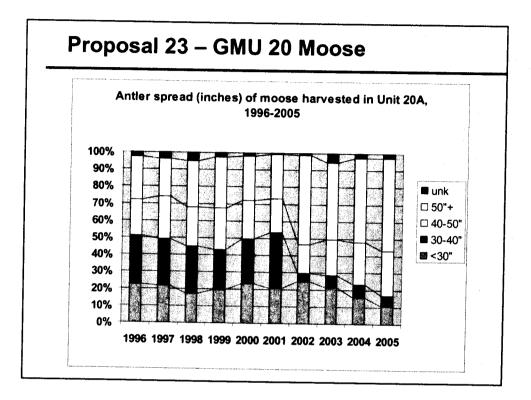
#### **RATIONALE:**

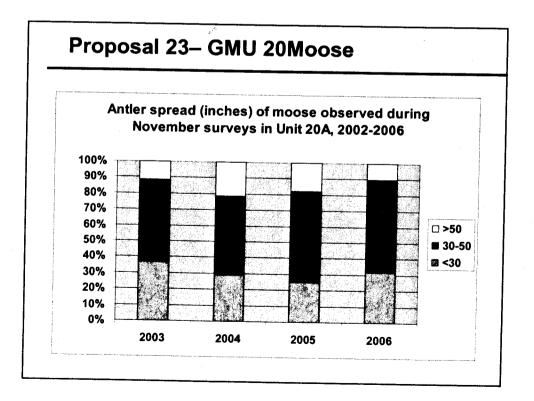
•No biological reason to eliminate harvest of spike-fork bulls •SHS, which include spike-fork component, proven management tool for regulating bull harvests and recovering and/or maintaining desired bull:cow ratios •Proven highly effective in Unit 20A

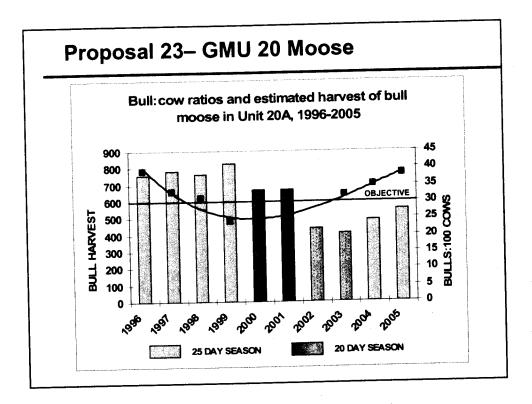
•Hunter harvest of yearlings tends to be more compensatory, increasing sustained yield

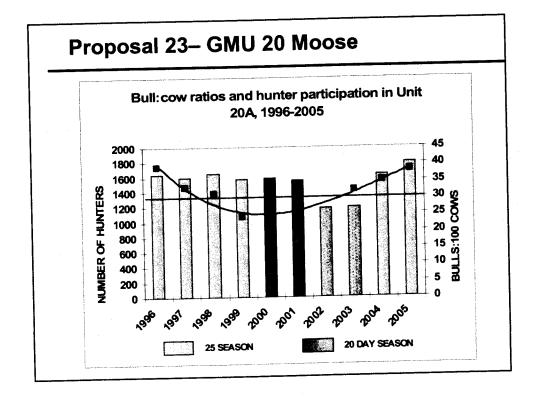


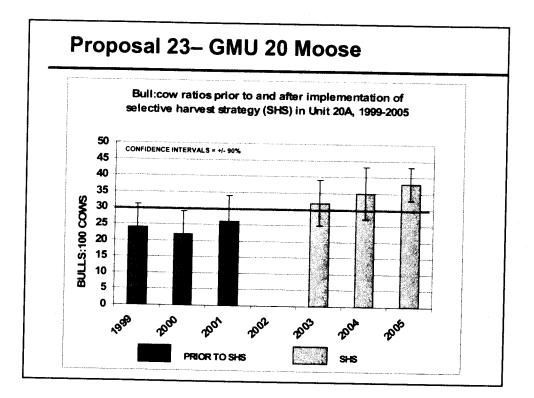


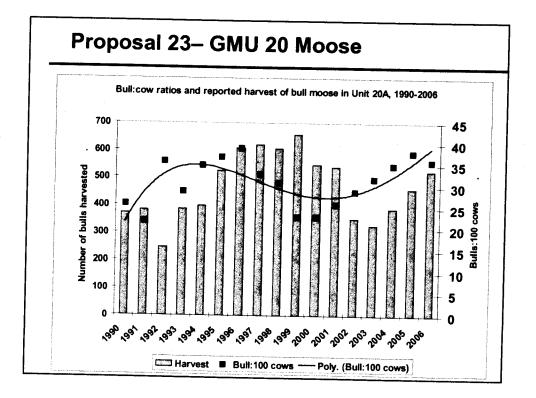


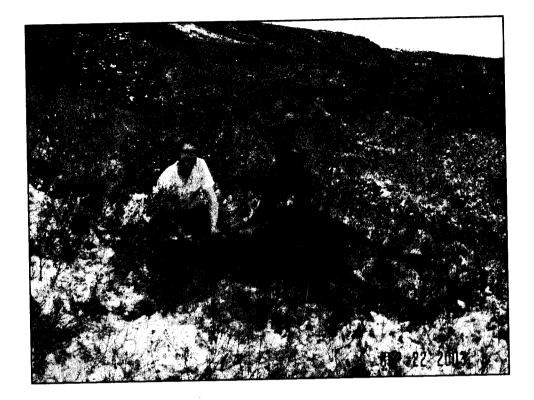


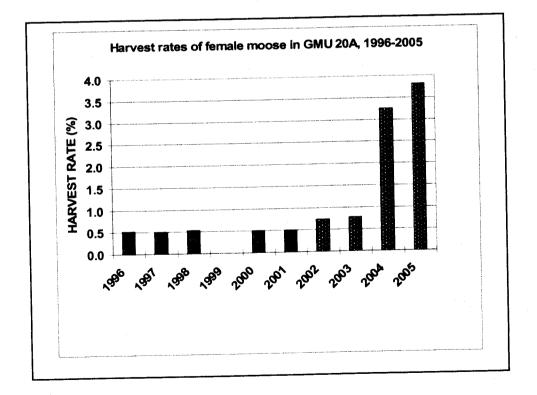


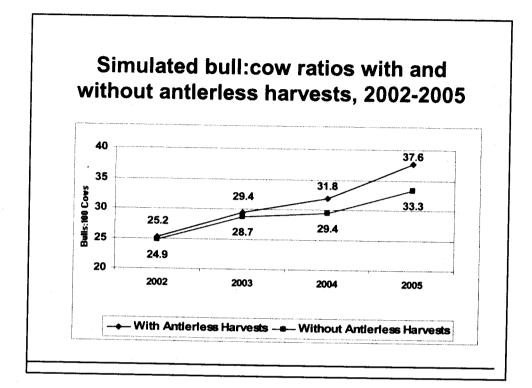


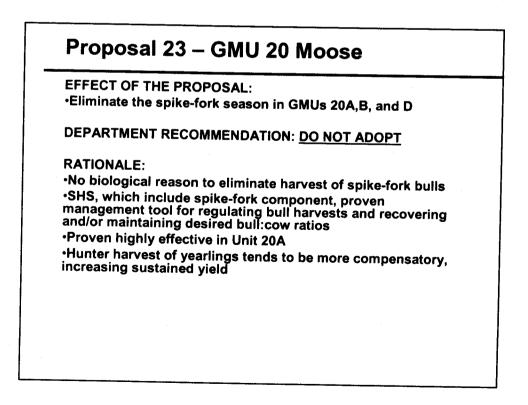












## Proposal 26 – GMU 20A Moose

**EFFECT OF THE PROPOSAL:** 

•Modify antler restrictions to spike-fork/36" 3 brow tines in Unit 20A

DEPARTMENT RECOMMENDATION: DO NOT ADOPT

Opposed by Fairbanks and Middle Nenana River Advisory Committees

## Proposal 26 – GMU 20A Moose

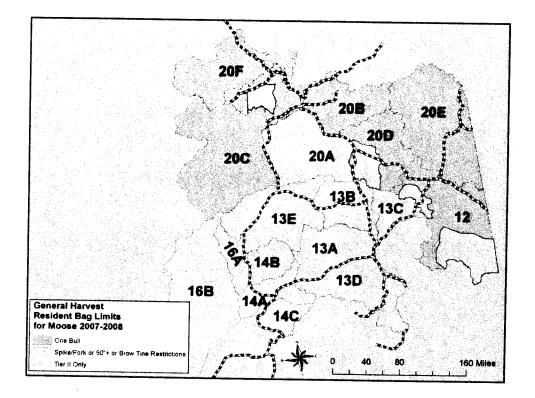
## **RATIONALE:**

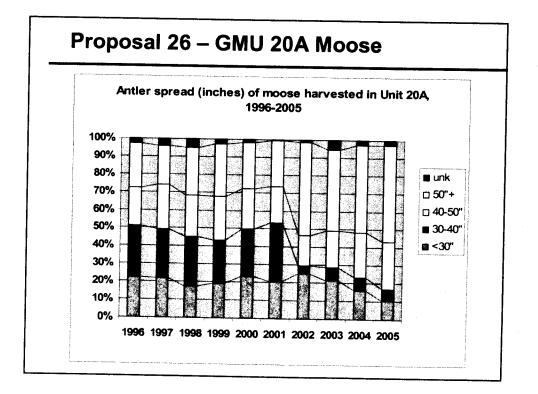
•SF/36" strategy inconsistent with statewide SF/50" SHS

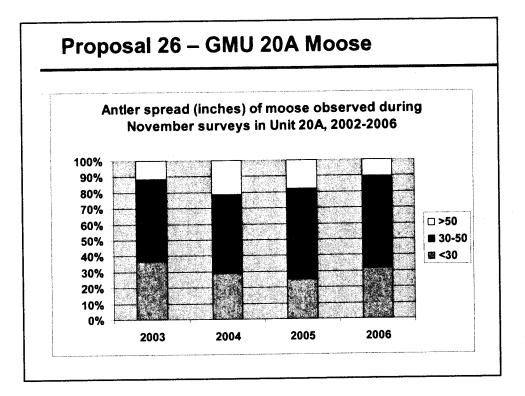
Predict overharvest of bulls

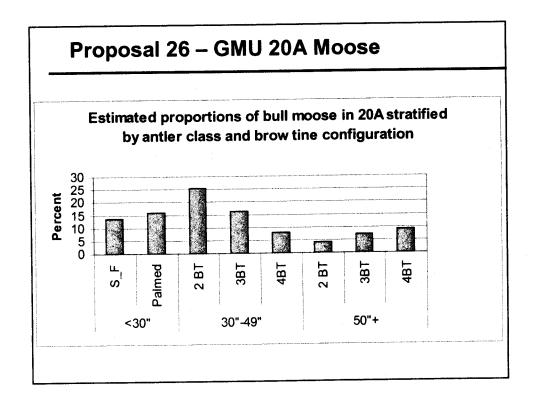
•Attract more hunters to Unit 20A resulting in additional hunter and land use conflicts

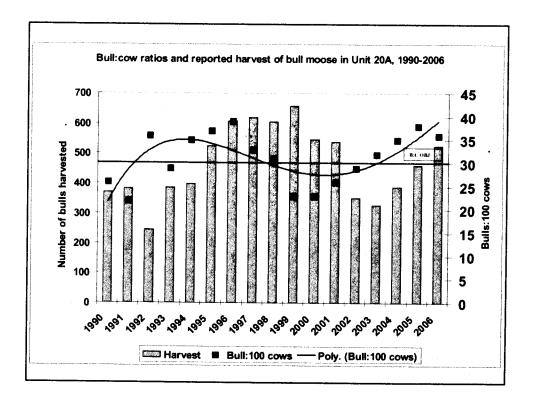
•Current SHS with additional drawing permit hunts for "any bull" more effective management strategy

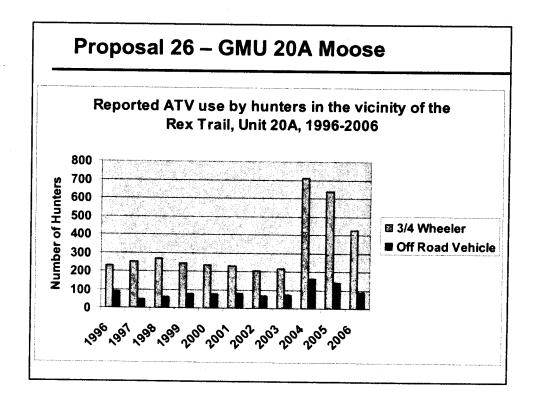


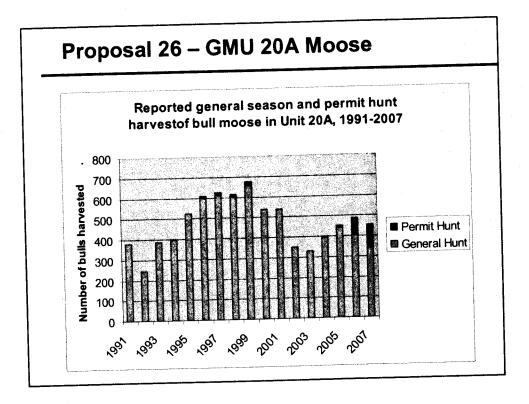


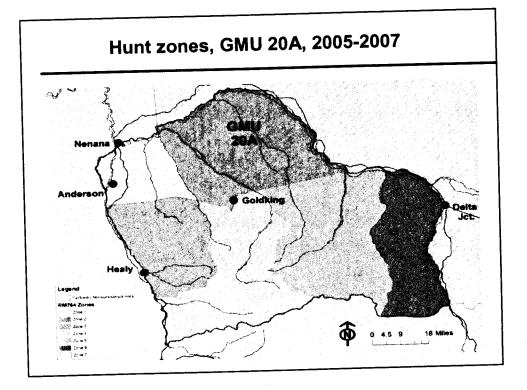












## Proposal 26 – GMU 20A Moose

## **RATIONALE:**

•SF/36" strategy inconsistent with statewide SF/50" SHS

Predict overharvest of bulls

•Attract more hunters to Unit 20A resulting in additional hunter and land use conflicts

•Current SHS with additional drawing permit hunts for "any bull" effective management strategy

Proposal 108 - GMU 20A Moose

EFFECT OF THE PROPOSAL:

•Modify Unit 20A predation control plan for caribou to include moose

DEPARTMENT RECOMMENDATION: DO NOT ADOPT

**Opposed by Middle Nenana AC** 

## Proposal 108 – GMU 20A Moose

### RATIONALE:

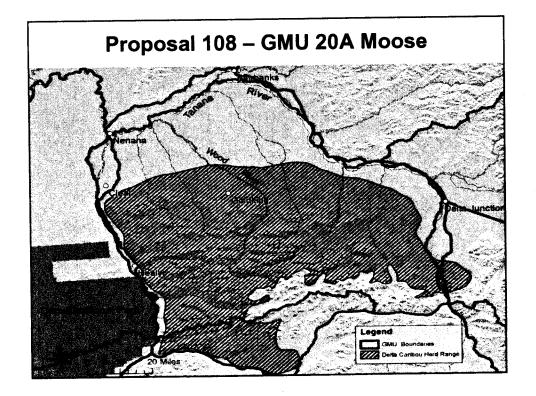
•Unit 20A predator control plan addresses the decline of the Delta caribou herd

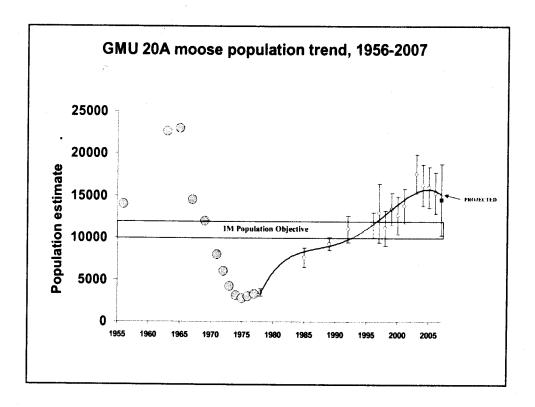
 Implementation would lead to moose population growth in the absence of liberal antierless harvests

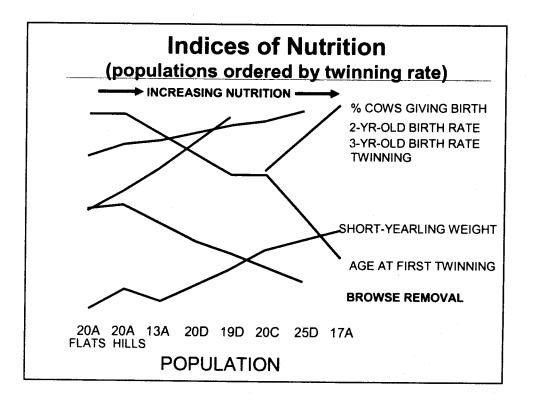
•Future of antierless moose hunts is uncertain

•Without liberal antierless hunts, moose numbers would increase risking further declines in nutritional status and habitat quality of the moose population

•Thus, implementing predator control plan at this time not recommended







## Proposal 108 – GMU 20A Moose

**RATIONALE:** 

•Unit 20A predator control plan addresses the decline of the Delta caribou herd

•Implementation would lead to moose population growth in the absence of liberal antlerless harvests

•Future of antierless moose hunts is uncertain

•Without liberal antlerless hunts, moose numbers would increase risking further declines in nutritional status and habitat quality of the moose population

•Thus, implementing predator control plan at this time not recommended

Proposal 109 – GMU 20A Moose

EFFECT OF THE PROPOSAL:

 Increase Intensive Management moose population objective for Unit 20A

DEPARTMENT RECOMMENDATION: DO NOT ADOPT

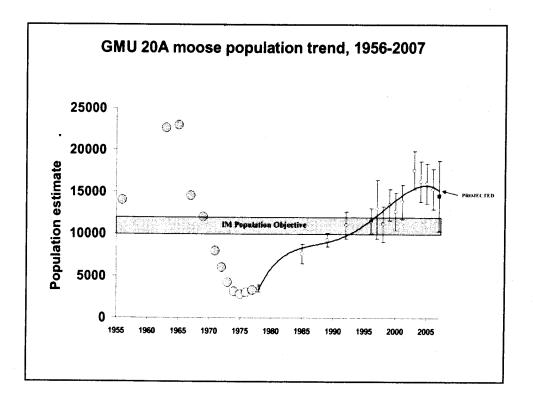
## Proposal 109 – GMU 20A Moose

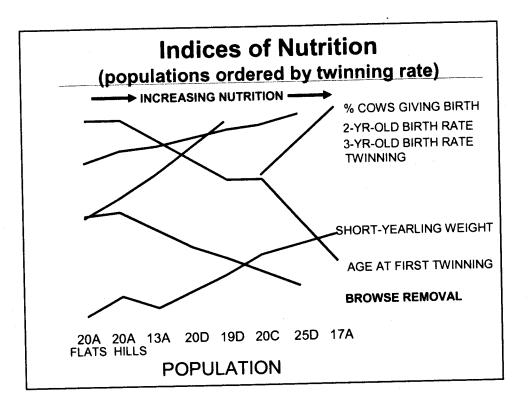
#### **RATIONALE:**

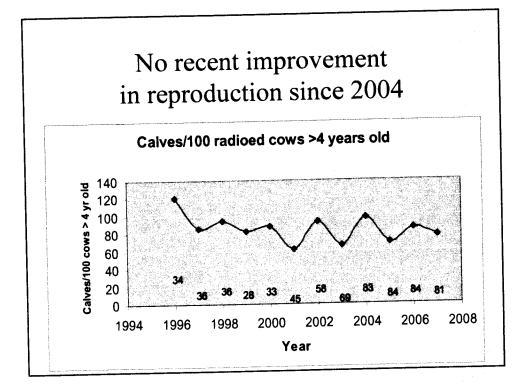
•The moose population has been reduced from an estimated 17,000 -18,000 moose in 2003 to 14,500 moose in 2007, and we predict the 2008 population to be 13,000- 14,000 moose.

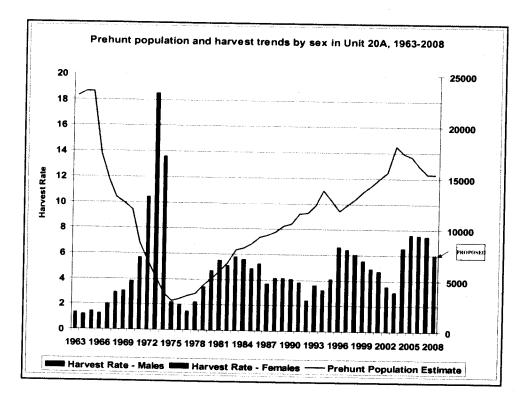
•At this lower population level, we have not yet detected improvements in the nutritional status of the moose population.

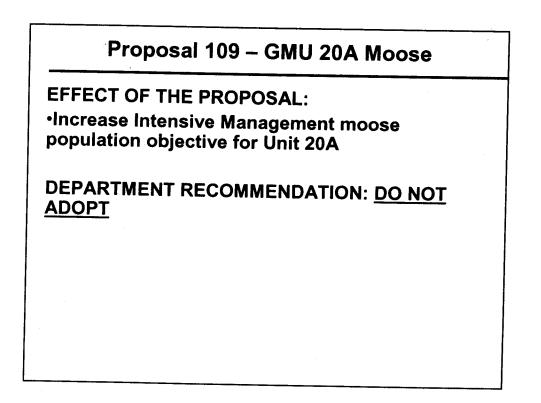
•The Department proposes to reduce harvest rates in 2008 in order to stabilize the population at 13,000-14,000 moose, while continuing to monitor nutritional status and obtaining public input concerning population and harvest objectives.











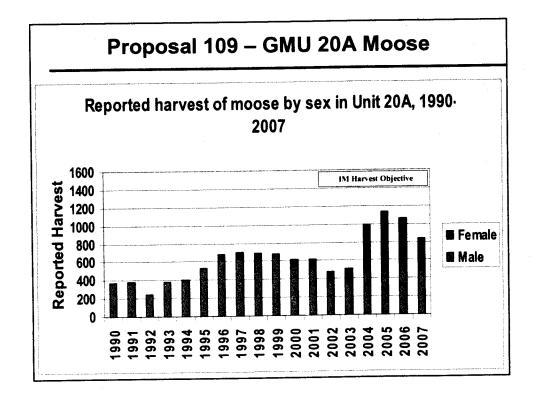
## Proposal 109 – GMU 20A Moose

#### **RATIONALE:**

•The moose population has been reduced from an estimated 17,000 -18,000 moose in 2003 to 14,500 moose in 2007, and we predict the 2008 population to be 13,000- 14,000 moose.

•At this lower population level, we have not yet detected improvements in the nutritional status of the moose population.

•The Department proposes to reduce harvest rates in 2008 in order to stabilize the population at 13,000-14,000 moose, while continuing to monitor nutritional status and obtaining public input concerning population and harvest objectives.



# Proposal 110 – GMU 20A Delta Caribou Herd Predator Control Plan

EFFECT OF THE PROPOSAL:

•Implement the predator control plan for the Delta caribou herd

DEPARTMENT RECOMMENDATION: DO NOT ADOPT

**Opposed by Middle Nenana AC** 

## Proposal 110 – GMU 20A Caribou

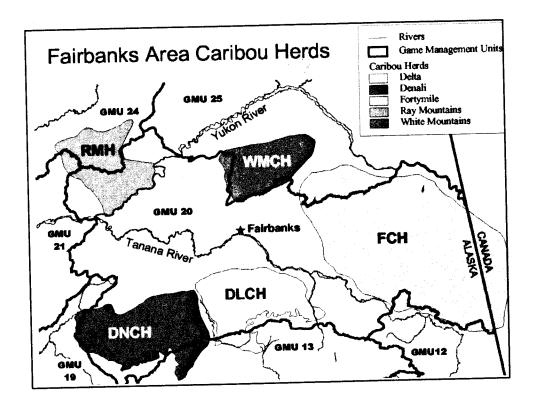
## RATIONALE:

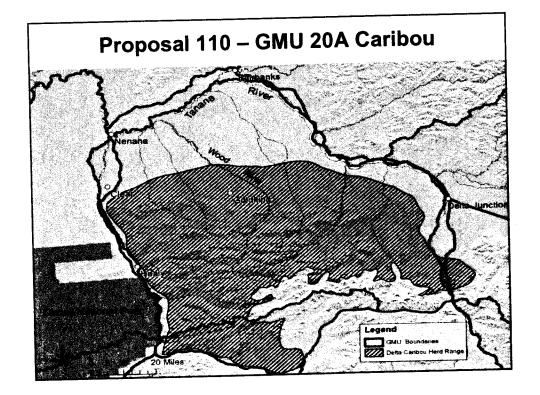
•Would lead to moose population growth in the absence of liberal antlerless harvests

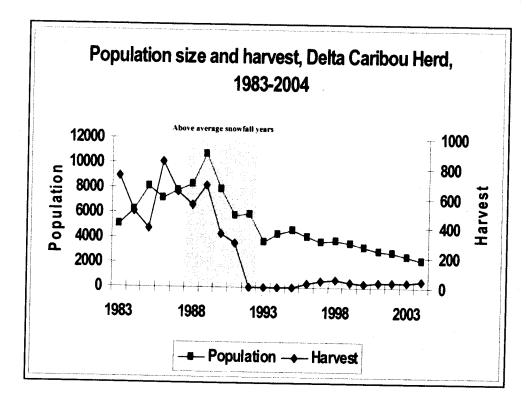
•Future of antlerless hunts is uncertain

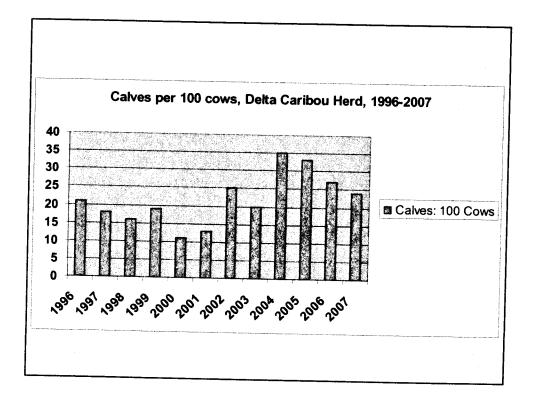
•Without liberal antierless hunts, moose numbers would increase risking further declines in nutritional status and habitat quality of the moose population

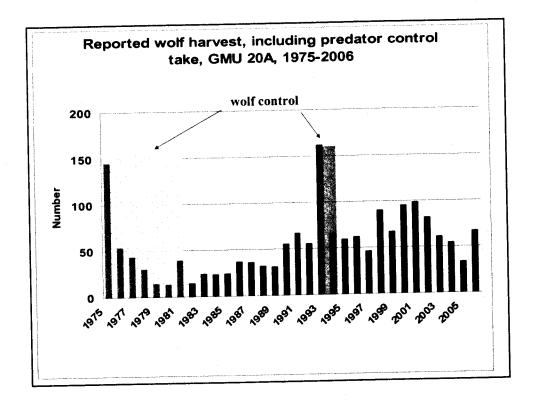
•Thus, implementing predator control plan at this time not recommended

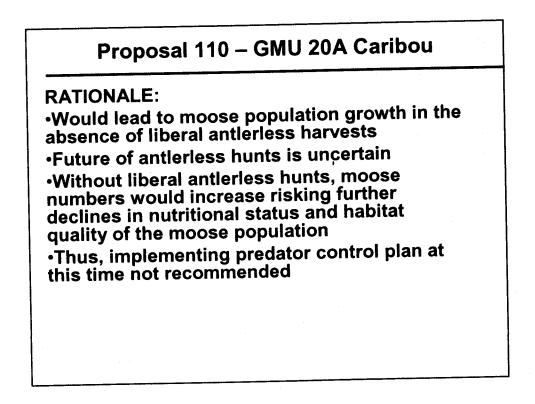












# Proposal 89 – GMU 20A Controlled Use Area

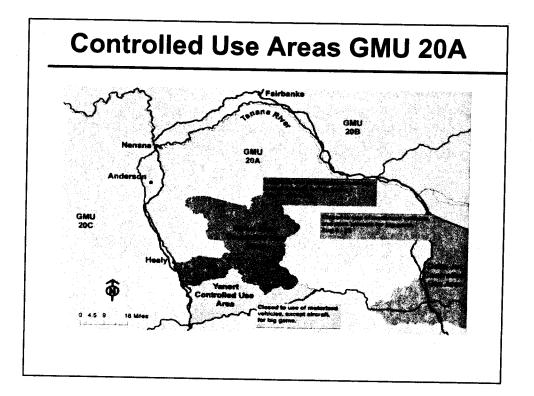
**EFFECT OF THE PROPOSAL:**  Modify dates of closure for Wood River Controlled Use Area from Aug 1 - Sept 30 to Aug 1 - Aug 31

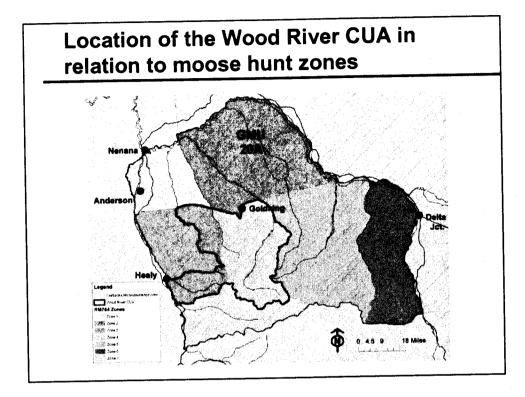
DEPARTMENT RECOMMENDATION: NO RECOMMENDATION

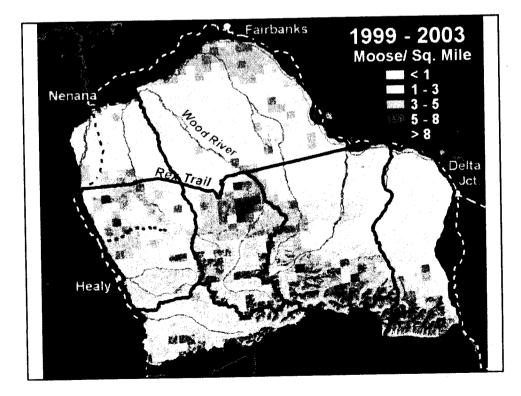
**RATIONALE:** 

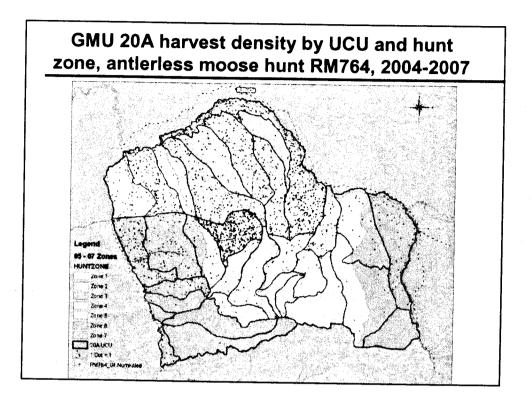
- •This is an allocation/user conflict issue
- •Fairbanks & Middle Nenana ACs oppose
- Moose harvest objectives can be met more effectively with extended antierless moose season

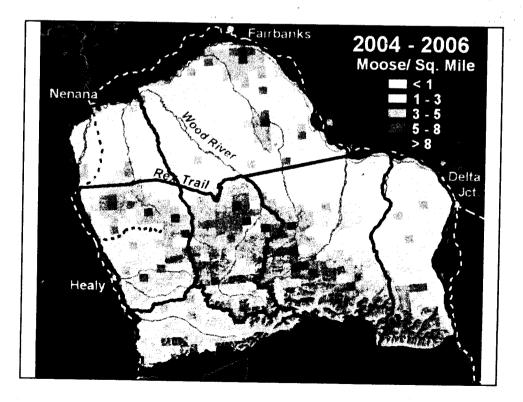
•Exacerbate damage to Rex Trail

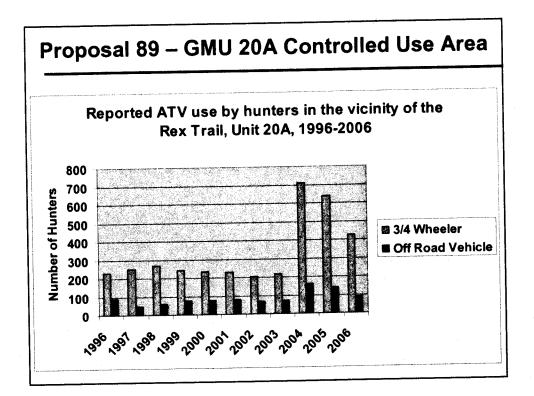


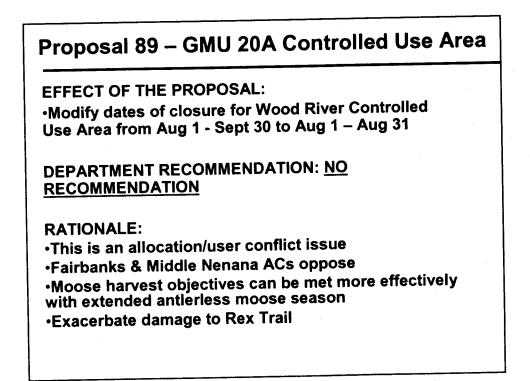












## Proposal 90 – GMU 20A Controlled Use Area

EFFECT OF THE PROPOSAL:

•Eliminate Wood River Controlled Use Area

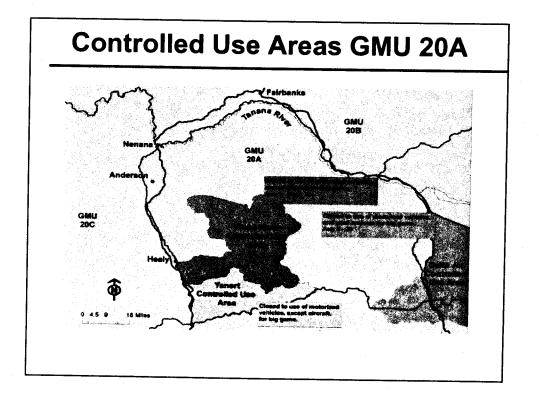
DEPARTMENT RECOMMENDATION: NO RECOMMENDATION

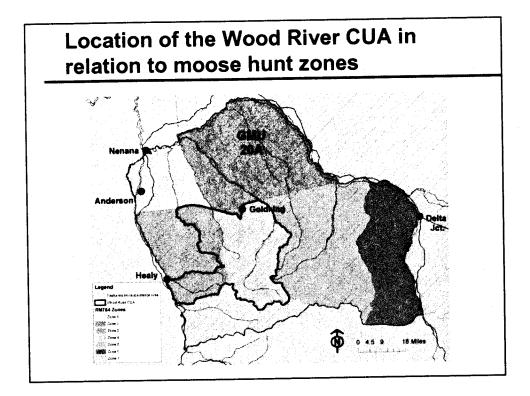
**RATIONALE:** 

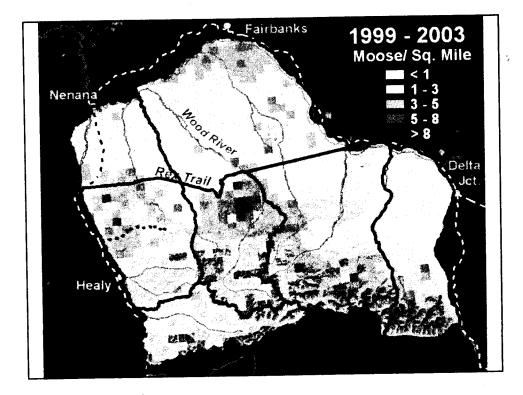
•This is an allocation/user conflict issue

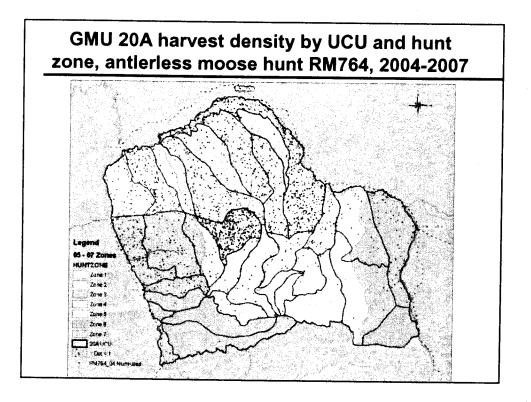
 Fairbanks & Middle Nenana ACs oppose
 Moose harvest objectives can be met more effectively with extended antlerless moose season

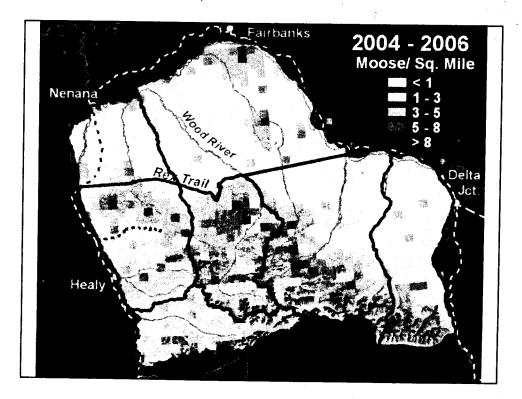
•Exacerbate damage to Rex Trail

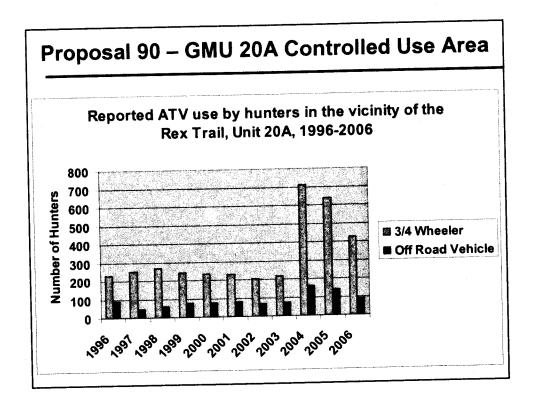


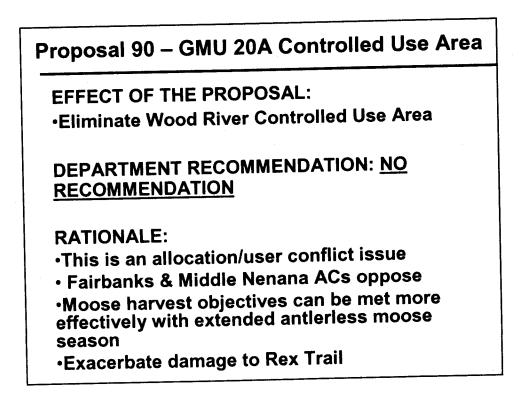




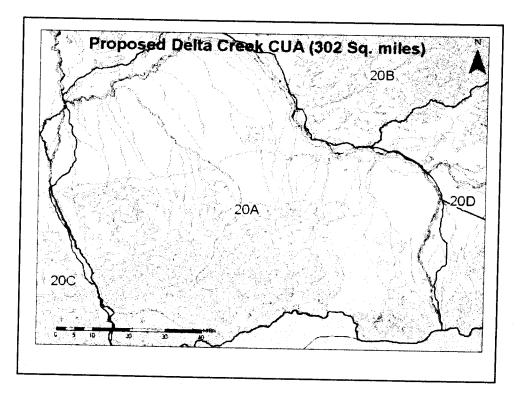


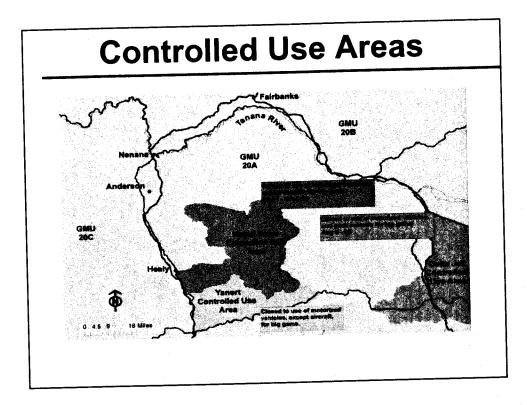


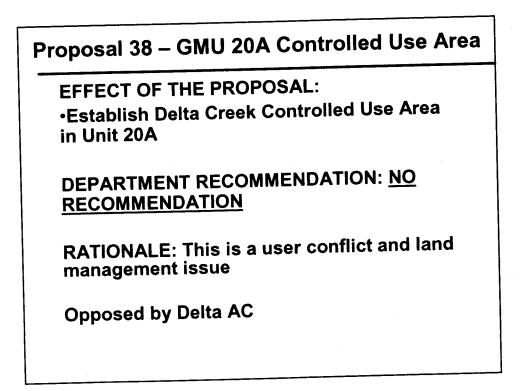




# Proposal 38 – GMU 20A Controlled Use AreaEFFECT OF THE PROPOSAL:<br/>•Establish Delta Creek Controlled Use Area<br/>in Unit 20ADEPARTMENT RECOMMENDATION: NO<br/>RECOMMENDATIONRATIONALE: This is a user conflict and land<br/>management issueOpposed by Delta AC







# Proposal 91 and 92

•EFFECT OF PROPOSAL: Reinstate Nenana Controlled use area and/or stop airboat traffic on the Kantishna river

•DEPARTMENT RECOMMENDATION: No Recommendation

#### **•RATIONALE:**

Allocation issue

•Existed 1996 - 2004

•2419 mi<sup>2</sup>

•Outside the Fairbanks nonsubsistence area

•Established to reduce conflicts between airboating moose hunters and other moose hunters

•Was closed to airboats September 1-25 for moose hunters

•Did not restrict airboat use on major 20C rivers after 1998

Controversial

Proposal 9	1 and 92	
	Mean 14	
Mean 6		

