PALMER AREA PROPOSALS

Board of Game Meeting February 8 – 15, 2013



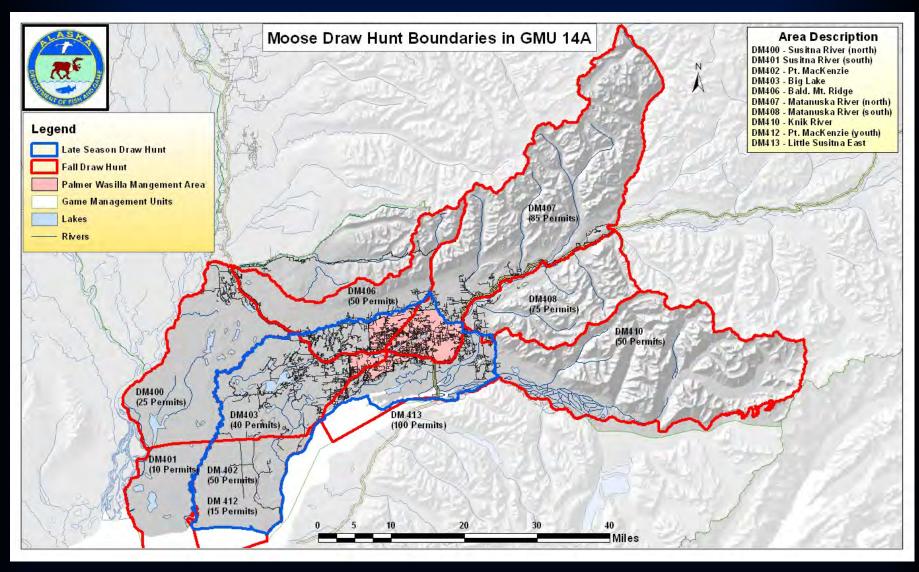
Effect of Proposal: Reauthorize antlerless moose hunts for Unit 14A.

Department Recommendation: Adopt

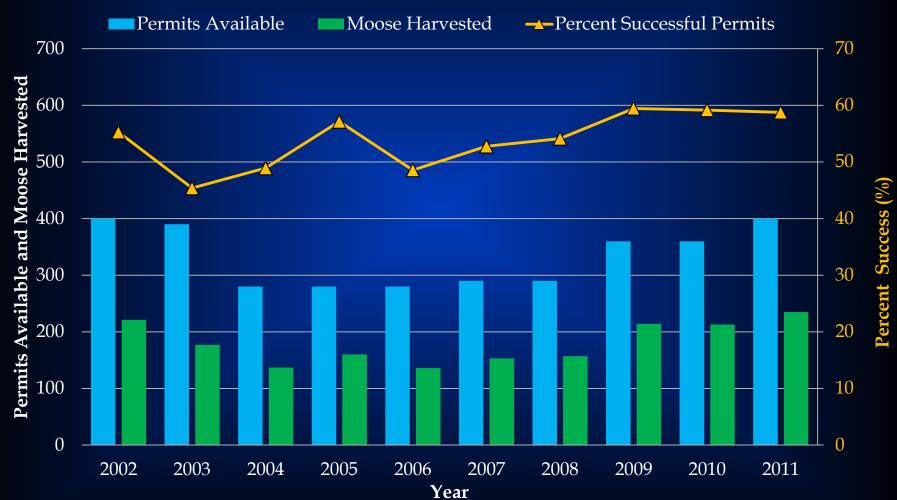


Moose Population Status

		<u>2011</u>	2012	
GMU	Objective	Estimate	Bull/100 Cows	Calves/100 Cows
14A	(6,500-7,500)	8,000	26	28



GMU 14A Antlerless Permits





Effect of Proposal: Reauthorize antlerless moose hunts for Unit 14A.

Department Recommendation: <u>Adopt</u>



Effect of Proposal: Reduce the general resident and nonresident moose season 5 days by closing Sept. 20 and remove the spike-fork component of the bull harvest in sub-unit 14A.

Department Recommendation: <u>Take No Action</u>

Rationale: The department would like to withdraw this proposal based on the results of a composition survey of moose in subunit 14A that was conducted in November 2012.

14A Bull Ratio Objective: 20-25

<u>Year</u>	Bulls:100 Cows	
2011	19	
2012	26	

Effect of Proposal: Reduce the general resident and nonresident moose season 5 days by closing Sept. 20 and remove the spike-fork component of the bull harvest in sub-unit 14A.

Department Recommendation: <u>Take No Action</u>

Effect of Proposal: Require lower jaw and antlers of bull moose harvested in unit 14A to be brought in to an ADF&G office for aging and measuring.

Department Recommendation: **Do Not Adopt**

Rationale:

- ▹ Moose Harvest in 14A average 478 (2007-2010).
- The data collected will not provide answers to questions posed in the proposal.
- Some enforcement value, but may increase wildlife waste and decrease harvest reports when moose are sublegal moose.

Effect of Proposal: Require lower jaw and antlers of bull moose harvested in unit 14A to be brought in to an ADF&G office for aging and measuring.

Department Recommendation: **Do Not Adopt**

Effect of Proposal:

- Reauthorize the antlerless hot-spot hunt in 14A
- Establish a winter antlerless hot-spot hunt in unit 14B
- Allows the use of archery equipment.

Department Recommendation: Adopt

Hot-spot Hunt

- The Hot-spot hunt is designed to allow registration permit holders to selectively harvest moose that pose a threat to public safety and moose that are likely to die as a result of an injury.
- > Two basic hunt types
 - Nuisance, Injured, or Depredation Moose
 - Moose Collision Reduction Zone

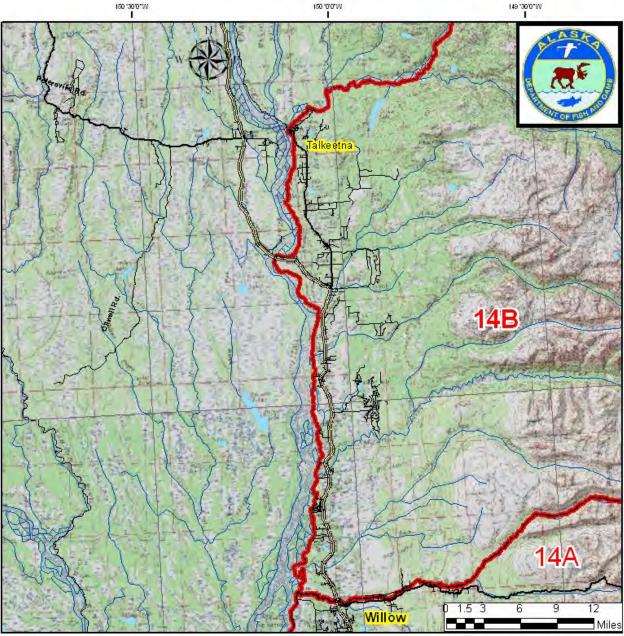
RM415 (Hotspot Hunt)	2011	*2012
Applicants	432	204
Permits Issued	50	93
Harvested Moose	44	62
Cows	34	51
Bulls	10	11

* Current as of Jan 27, 2013

Legend Road classification HIGHWAY MAJOR MEDIUM MINOR Unit 14 Boundries Lakes Rivers



62"0"N -



Effect of Proposal:

- Reauthorize the antlerless hot-spot hunt in 14A
- Establish a winter antlerless hot-spot hunt in unit 14B
- Allows the use of archery equipment.

Department Recommendation: Adopt

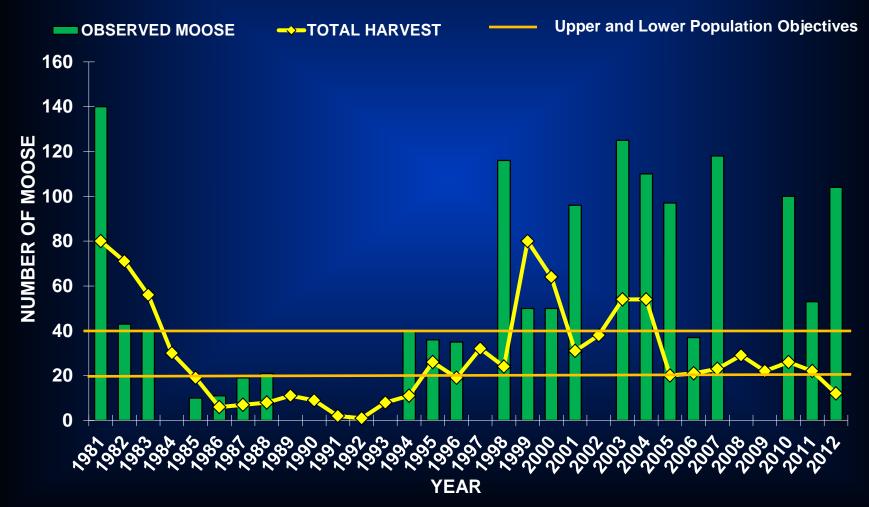


Effect of Proposal: Reauthorize antlerless moose hunt on Kalgin Island in unit 16B.

Department Recommendation: Adopt

Mat Valley AC: Pass 13-0-0

Proposal 97 KALGIN ISLAND MOOSE POPULATION SIZE AND HARVEST 1981 to 2012





Effect of Proposal: Reauthorize antlerless moose hunt on Kalgin Island in unit 16B.

Department Recommendation: Adopt

Mat Valley AC: Pass 13-0-0

Effect of Proposal: Modifies the season dates for general resident and non-resident moose hunting in unit 16A.

- Closes the season between Aug 10 Aug 30.
- Adds a season for residents only Dec. 9 to Dec. 15. for spike/fork bulls.
- Adds 5 days to the September season (Sept. 1 Sept. 30)

Department Recommendation:

<u>No Recommendation – Eliminate the August Season and establish a December season</u>

Do Not Adopt – Extend the Fall Season

Population and Bull Composition Estimates

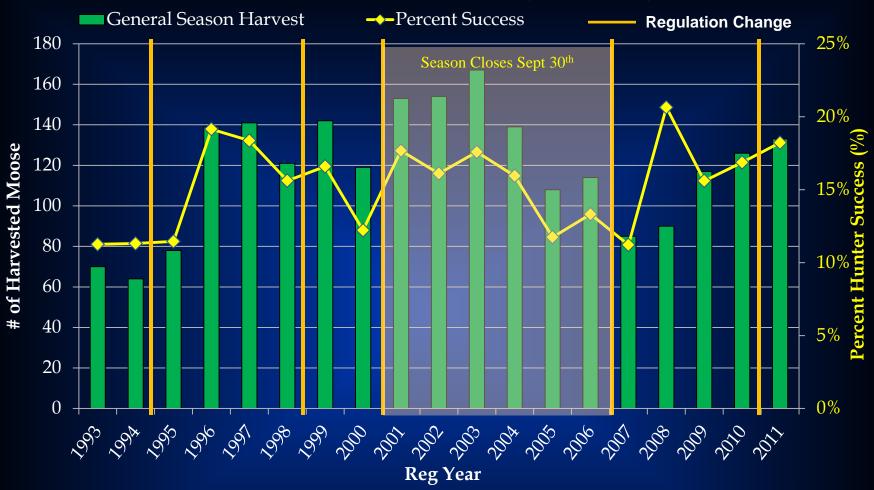
<u>GMU</u>	<u>Objective</u>	2009 Estimate	Bull/100 Cows
16A	(3,500-4,500)	2,600	26

No Recommendation – Eliminate the August Season and establish a December season

Harvest

<u>Year</u>	<u>Hunt Dates</u>	Average Harvest
(2006-2011)	Aug 10-31	13
(1999-2000)	Dec 1-15	18

Unit 16A Moose Harvest (1993-2011)



1993-1994 Aug 20–Sep 20 (SF/50)

1995-1998 Aug 10–17 (bow), Aug 20–Sep 20 (Gen.SF/50/3 BT), Nov 20–Dec 15 (SF-only)

1999-2000 Aug 10–17 (bow), Aug 20–Sep 25 (Gen.SF/50/3 BT), Dec 5–15 (SF-only)

2001-2006 Aug 10–17 (bow), Aug 20–Sep 30 (Gen.SF/50/3 BT)

2007-2010 Aug 10–17 (bow), Aug 20–Sep 20 (Gen.SF/50/3 BT)

2011 Aug 10–17 (bow), Aug 20–Sep 25 (Gen.SF/50/3 BT)

Effect of Proposal: Modifies the season dates for general resident and non-resident moose hunting in unit 16A.

- Closes the season between Aug 10 Aug 30.
- Adds a season for residents only Dec. 9 to Dec. 15. for spike/fork bulls.
- Adds 5 days to the September season (Sept. 1 Sept. 30)

Department Recommendation:

No Recommendation – Eliminate the August Season and establish a December season

Do Not Adopt – Extend the Fall Season

Effect of Proposal: Review and modify the unit 16 intensive management program.

Department Recommendation: Adopt



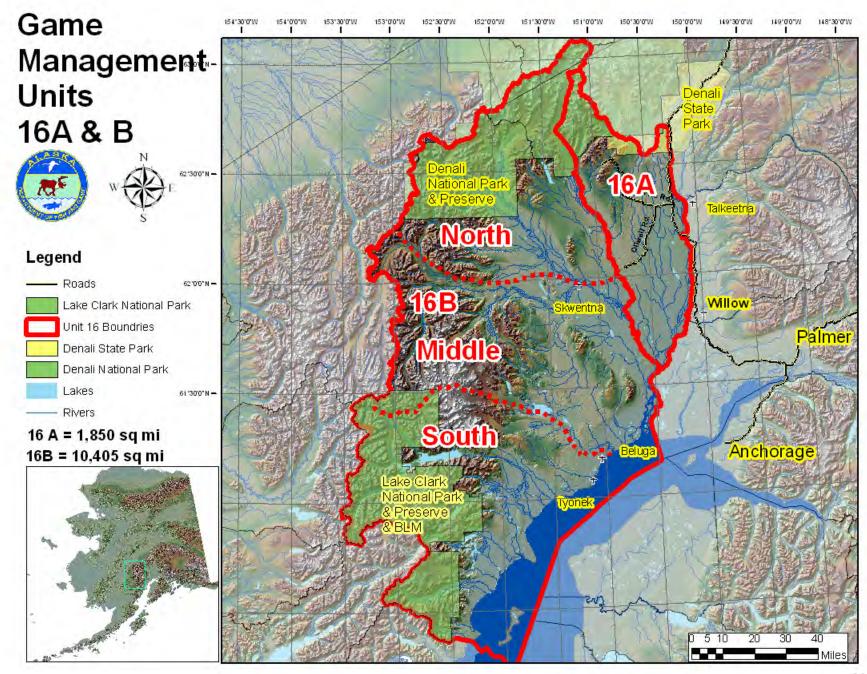
Proposed department amendments to clarify or improve the existing Unit 16 IM program 92.125(d) regulation, now 92.122

Department Recommendation Summary:

- 1. Bull harvest should be liberalized in sub-unit 16B.
- 2. Allow the moose population to grow.
- 3. No cow hunts at this time.
- 4. The wolf control program should continue until the harvest objectives for the entire unit are met.
- 5. Suspend the wolf control program in 16B-South and consider suspending in 16B-Middle to inform operational planning.
- 6. Suspend the bear control programs.

Moose





Survey Unit	Population Objective per area (and midpoint)	Current Estimate	Percent Recovery to Objective Midpoint
Subunit 16B	6,500–7,500 (7,000)	6,664	95%
16B-North	1,820–2,100 (1,960)	834	43%
16B-Middle	3,120–3,600 (3,360)	3,458	103%
16B-South	1,560–1,800 (1,680)	2,372	141%

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Moose Harvest

GMU 16B

Harvest Objective

Current Harvest

310 - 600

198

Bull/100 Cows Surplus Bull Estimate

52

300 - 400

Department Recommendation: Moose

- 1. Bull harvest should be liberalized in sub-unit 16B
 - Continue to offer fall and winter hunting opportunity. A winter hunt of some type should continue if harvest objectives are to be achieved.
 - Consider the addition of an a fall drawing hunt with a bag limit of any bull.
 - Consider the addition of youth hunting opportunity (any-bull draw hunt).

Department Recommendation: Moose

- 2. Allow the moose population to grow. Continue to monitor moose populations, overwinter survival, and nutritional indices.
- 3. No cow hunts should be considered until the population reaches the upper end of the objective.
 - If the population reaches the upper end of the objective and the mid-point of the harvest objectives is not met, cow hunts should be implemented but the population should be allowed to grow.
 - If a declining trend in nutritional condition of moose (e.g. twinning rates) is observed, cow hunts should be implemented to stabilize the population until nutritional status stabilizes.

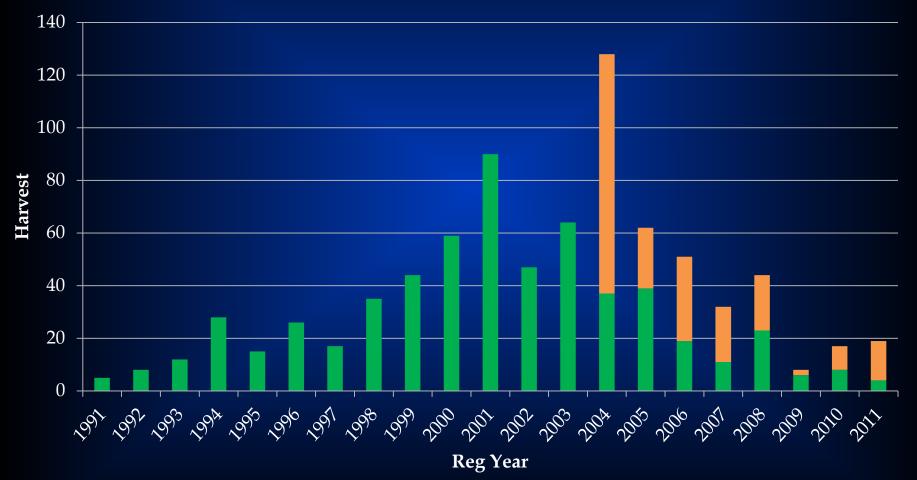
Wolf



Unit 16 Wolf Harvest (1991-2011)

Pred Control

Non-Pred Control



Subunit 16B moose population estimates and objectives subdivided into survey units

Survey Unit	Population Objective per area (and midpoint)	Current Estimate	Percent Recovery to Objective Midpoint
Subunit 16B	6,500–7,500 (7,000)	6,664	95%
16B-North	1,820–2,100 (1,960)	834	43%
16B-Middle	3,120–3,600 (3,360)	3,458	103%
16B-South	1,560–1,800 (1,680)	2,372	141%

Department Recommendation: Wolf Control

- 4. The wolf control program should continue until the harvest objectives for the entire unit are met.
- 5. The wolf control program in 16B-South should be suspended.
- Suspension of the wolf control program in 16B-Middle should be considered when objectives meet the midpoint.

Bear







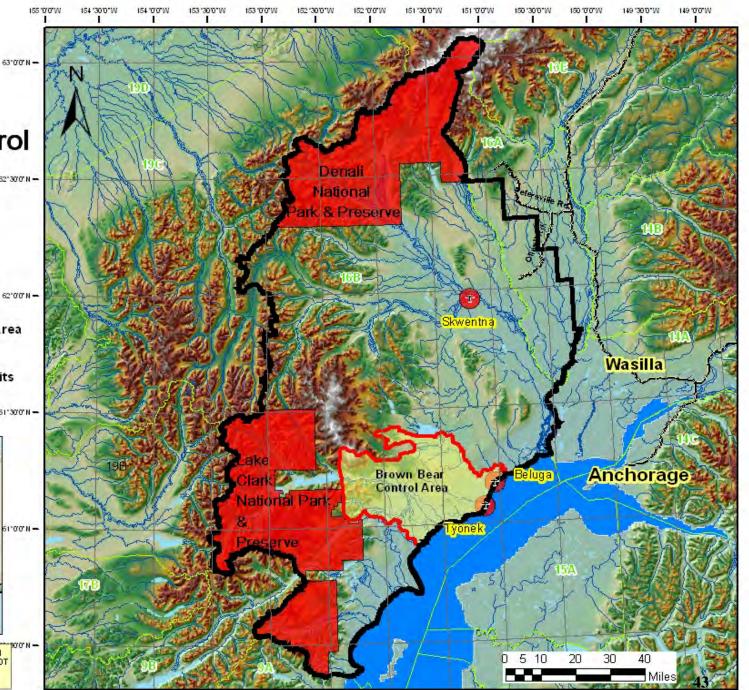
Predator Control Areas GMU 16

Legend





Map Projection: Alaska Albers Nad83 (WG S84) Data Sources: ADFG, USGS, BLM, AK DNR, DOT Alaska Department of Fish & Game Date: January 14, 2013



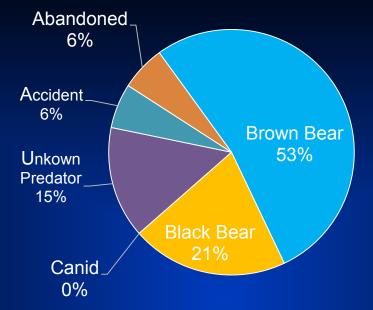


Unit 16 Black Bear Harvest by Permit Type, 1991-2011

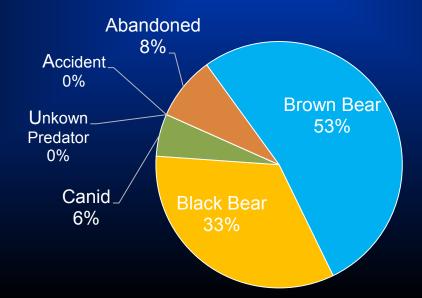
Control General Harvest ---- % Control Take Jul 1st -June 30th Aug 10th - May 25th Sept 1st - May 25th Aug 10th - May 30th 1 bear in 4 yrs) 1 bear / yr) (2/yr)Control/ Snaring 160 25 140 20 120 # Harvested Percent (%) 100 15 80 10 60 40 5 20 0 0 1991 1992 1992 1994 1995 1996 1991 1998 1999 200 200 2002 2004 2005 2006 2001 2008 2012 2012 2012 **Reg Year**

Unit 16B Brown Bear Harvest by Permit Type (1991-2011)

16B - Proportion of Known Moose Calf Mortality by Cause (:



U 16B - Proportion of Known Moose Calf Mortality by Cause (2



Department Recommendation: Bear Control

7. The bear reduction programs should be suspended.

Department Recommendation:

8. Further investigation into the lack of response to predator control in 16B-North is warranted.

Department Recommendation Summary:

- 1. Bull harvest should be liberalized in sub-unit 16B.
- 2. Allow the moose population to grow.
- 3. No cow hunts at this time.
- 4. The wolf control program should continue until the harvest objectives for the entire unit are met.
- 5. Suspend the wolf control program in 16B-South and consider suspending in 16B-Middle to inform operational planning.
- 6. Suspend the bear control programs.

Effect of Proposal: Review and modify the unit 16 intensive management program.

Department Recommendation: Adopt

Mat Valley AC: Pass 10-1-2

Effect of Proposal: Suspend/relax the intensive management of wolves in unit 16.

Department Recommendation: Take No Action

Rationale: Based on action taken on proposal 103.

Mat Valley AC: Fail 0-13-0

Effect of Proposal: Align the non-resident moose season in unit 16B with the resident season of Aug. 20 to Sep 25.

Department Recommendation: No Recommendation

This is an allocation issue.

Mat Valley AC: Pass 10-0-3

Moose Population Status

GMU 16B

(310 - 600)	200	300 - 400
Harvest Objective	Current Harvest	Sustainable Bull Harvest Est.
(6,500 - 7,500)	6,700	52
Population Objective	Estimate	Bull/100 Cows

- Current Non-resident season dates Aug. 25 Sept. 15
- Proposed Non-resident season dates Aug. 20 Sept. 25

ANS Regulation

ANS 199 - 240 for all 16B

Hunting Regulation

- < 199 moose, Tier II only</p>
- ≥ 199 to < 241 Tier II and Resident Hunting</p>
- > > 240 Tier II, resident, and nonresident hunting

Effect of Proposal: Align the non-resident moose season in unit 16B with the resident season of Aug. 20 to Sep 25.

Department Recommendation: No Recommendation

Rationale: This is an allocation issue and should be determined by the BOG.

Mat Valley AC: Pass 10-0-3

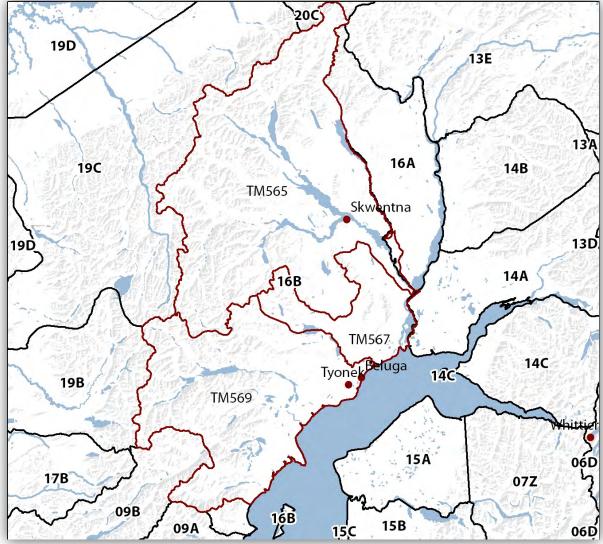
<u>The Seasonality of Moose Hunting in Game</u> <u>Management Unit 16B</u>

<u>Davin Holen</u> <u>Subsistence Program Manager</u>

> Southcentral/Southwest Region Meeting February 8-15, 2013



Subunit 16B and Tier II Moose Hunting





State Subsistence Procedures

Board Findings for 16B Moose

- Is there Customary and Traditional Use of 16B Moose?
 - Yes, positive finding in 1983; readopted in 1993.
- Is there a "Harvestable Surplus" of 16B Moose?
 Yes, 300-400 bulls based on biological information.



State Subsistence Procedures

Board Findings for Subunit 16B Moose

- What is the Amount reasonably Necessary for Subsistence?
 - Unit 16(B) (Kalgin Island) 2
 - Unit 16(B) (Redoubt Bay drainages) 10
 - Unit 16(B), that portion south of the Beluga River and north of Redoubt Bay 29-37
 - Unit 16(B), that portion north of the Beluga River 160-180
- Does the harvestable surplus allow for all or only some uses?
 - This is a Board determination

Harvest and Use Patterns

Outline:

- GMU 16B moose hunt history.
- Population of 16B communities.
- Overall harvest by major resource categories, 2005-2006.
- Hunting effort, Tyonek and Beluga, 2005-2006.
- Moose harvest, Tyonek and Beluga, 2005-2006.
- Hunting area by season, Tyonek and Beluga, 2005-2006.
- Harvest of moose by season, 2005-2006.
- Harvest of moose over time by season, TM569.
- Harvest of moose over time by season, TM 567 & 569.



GMU 16B moose hunt history

- Winter hunt available until the mid-1970s in GMU 16B.
 - Hunt was stopped due to increased pressure by urban hunters.
- 1980 Tyonek Village Council sent a letter to Division of Subsistence which said "My people have a hard time getting moose to eat."
 - Mt. Yenlo Fish and Game Advisory Committee also identified moose as an issue.
- 1981-1983: Division of Subsistence spent 2 years studying moose hunting patterns in Tyonek and Skwentna.
 - 1983: Positive C & T finding made.
 - Winter hunt established in March 1983.
 - Hunt by registration permits available in Tyonek and Skwentna
 - 200 other permits available by random draw.
- 1992: Tier II hunt established for winter hunt.
 - Hunt established based on decline of moose populations beginning in the late 1990s.
- 1999: Current Tier II/Tier I program with triggers for when to apply Tier II only versus Tier I and Tier II vs Tier II, Tier I and general harvest.



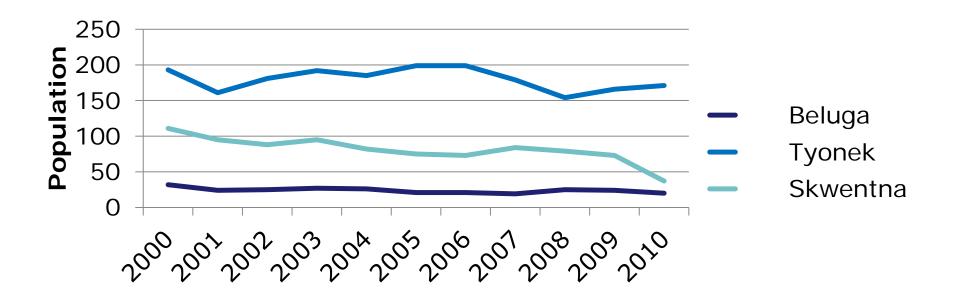
Populations of communities in GMU 16B, 2000-2010

Year	2000	2006ª	2010
Beluga	32	39	20
Tyonek	193	202	171
Skwentna	111	73 ^b	37

Source: U.S. Census Bureau 2011

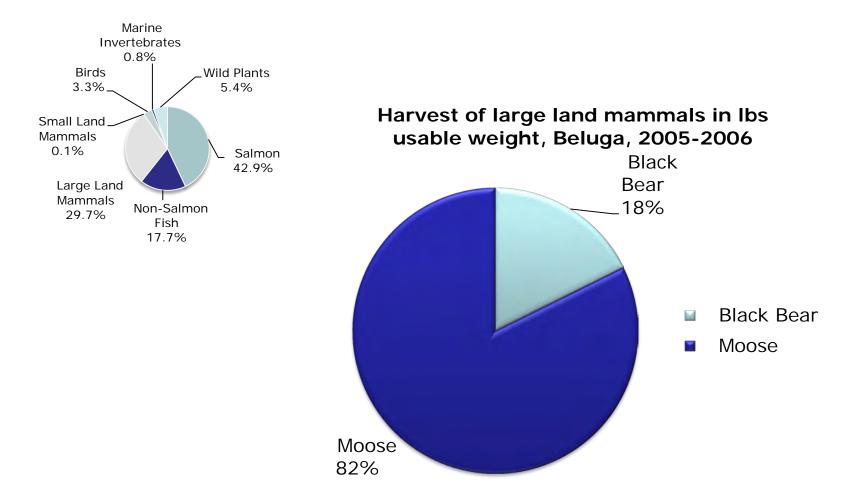
^a Community Subsistence Information System (CSIS) 2011

^b Alaska Department of Labor and Workforce Development, 2011

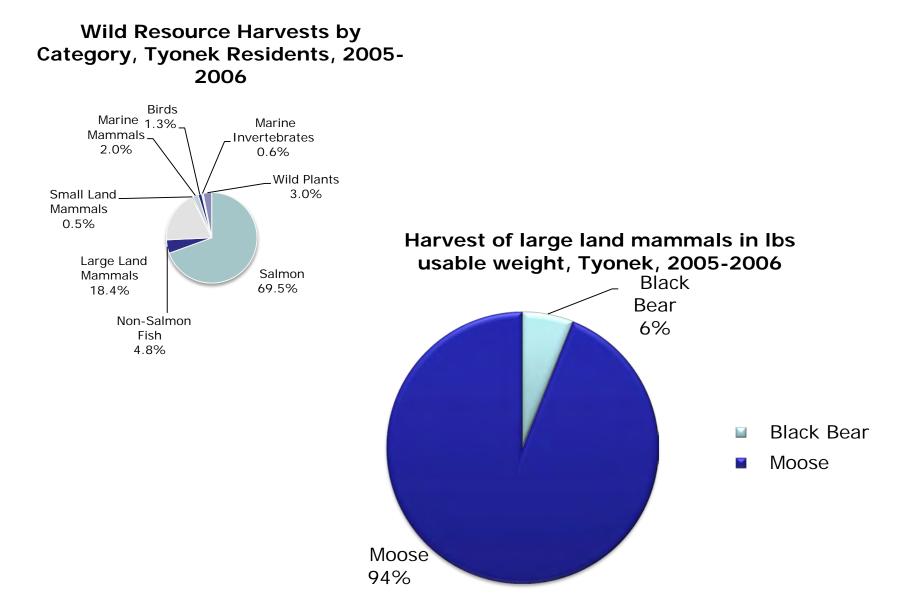






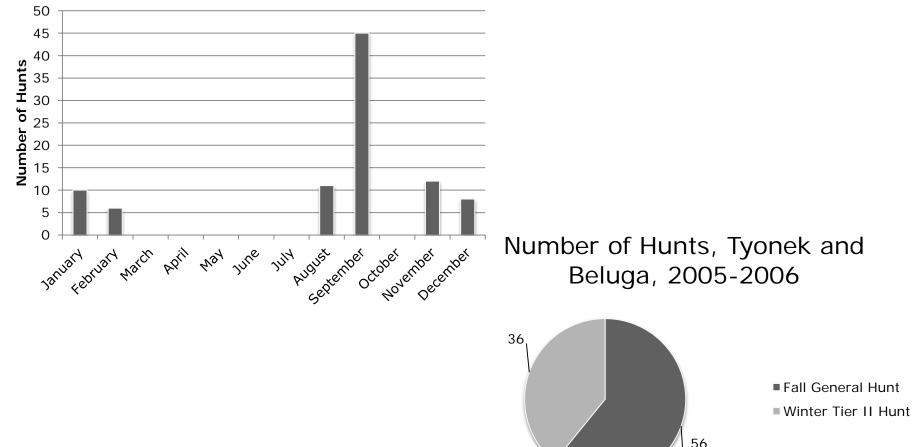






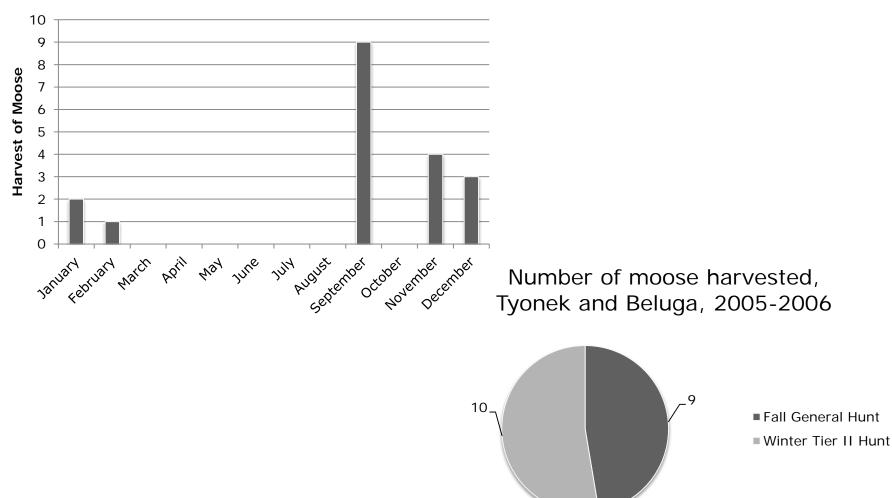


Hunting effort, Tyonek and Beluga combined 2005-2006

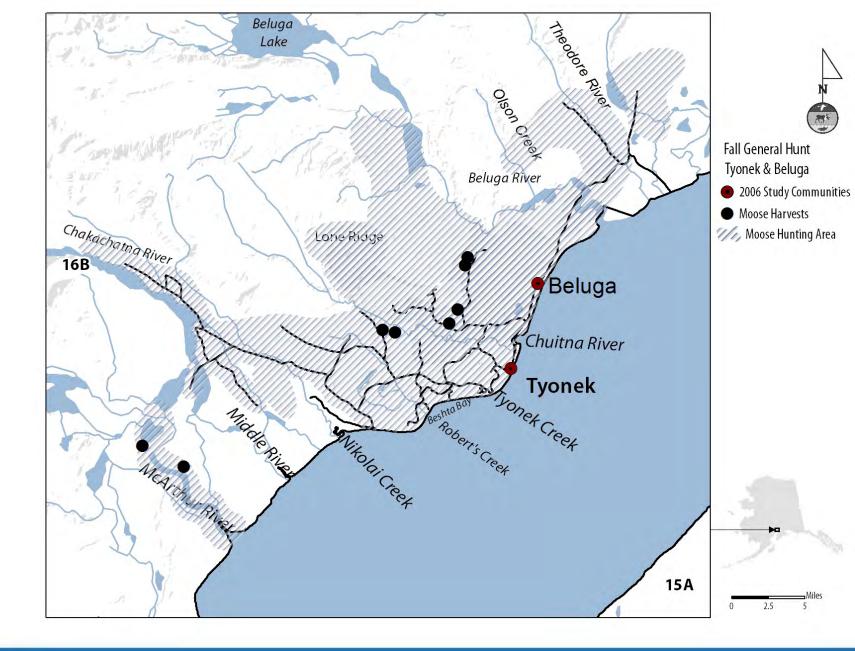




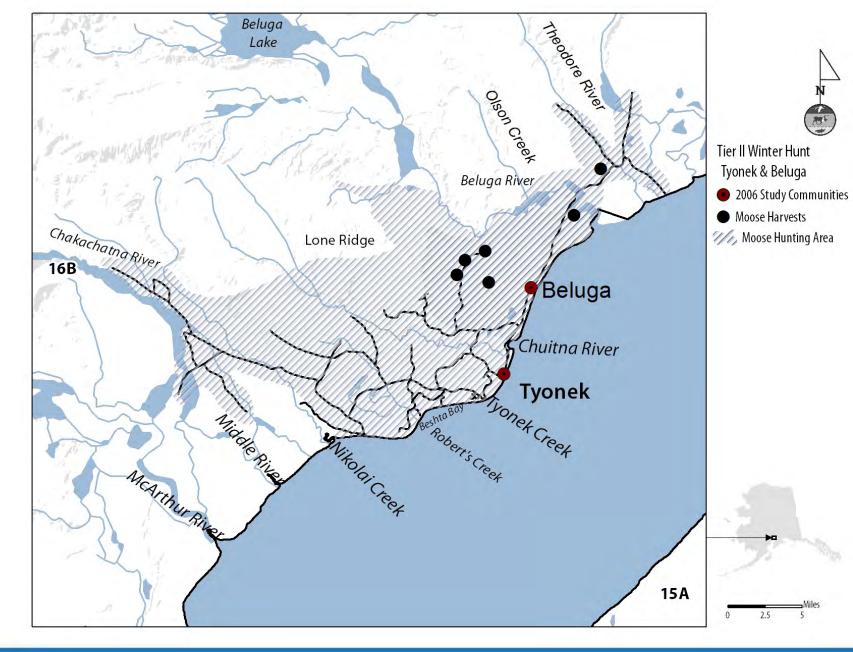
Moose harvest, Tyonek and Beluga, 2005-2006





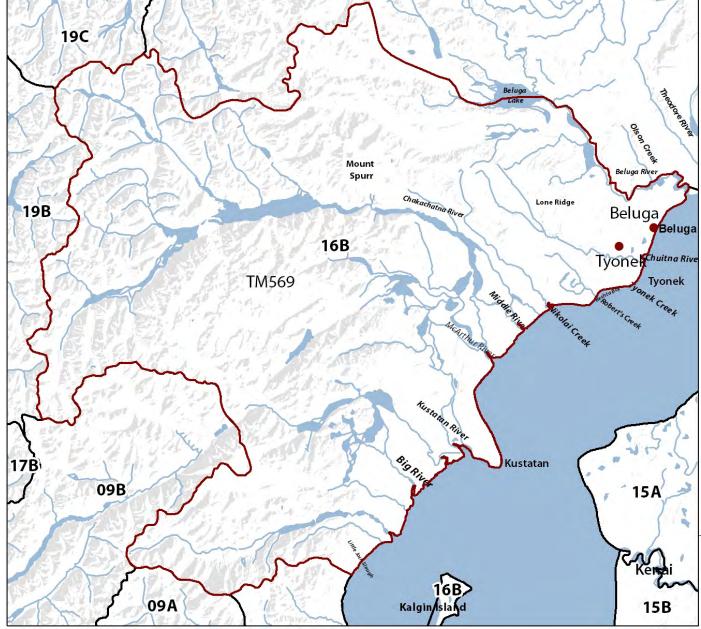






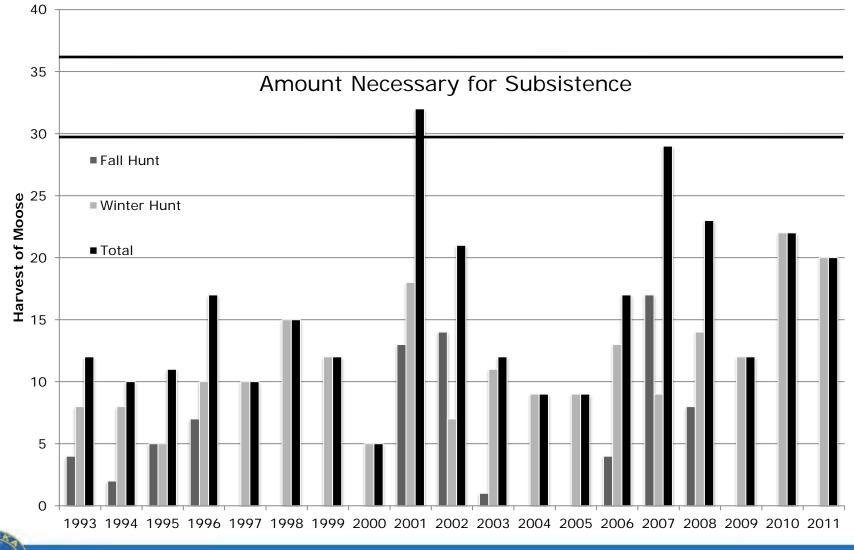


TM569, Unit 16B south of the Beluga River



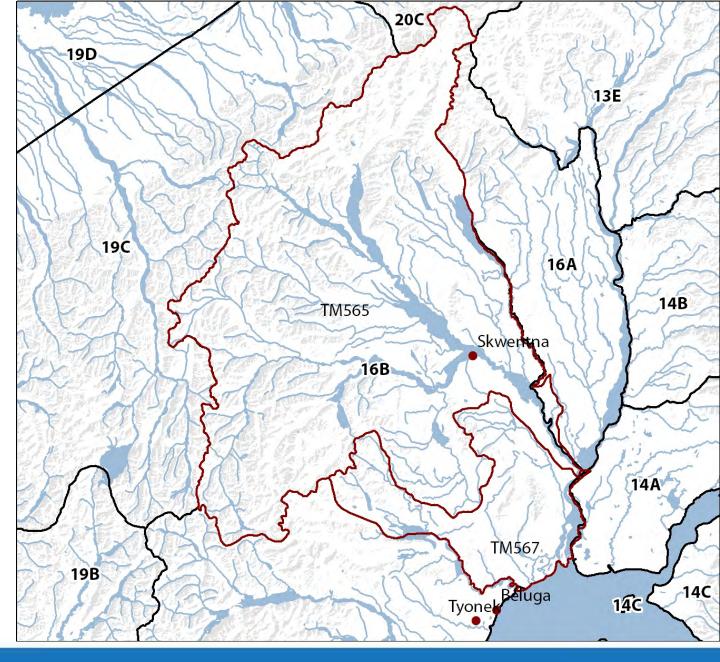


Harvest of moose in TM569, Unit 16B south of the Beluga River



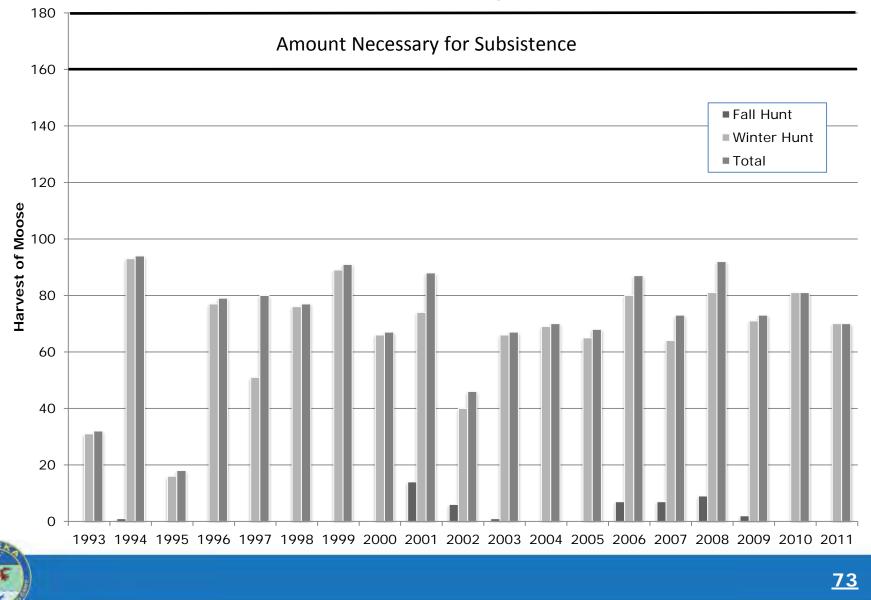
<u>71</u>

TM565 & TM567, Unit 16B north of the Beluga River





Harvest of moose in TM565 and TM567, Unit 16B North of the Beluga River



Considerations:

- Customary and traditional use patterns persist in Tyonek. No new study in Skwentna since 1983.
 - Study in progress in Swentna and Alexander Creek/Susitna for study year 2012.
- Over 50% of Tyonek and Beluga residents report fairly steady harvest since 2006.
- In 2010 and 2011 all reported harvests are from the winter hunt.
- Tyonek residents continue to focus hunting effort on the McArthur River area in the fall.
- Road system hunting near Tyonek is also important in the fall.
- However, there is greater success in the winter hunt.
- Fall hunts also include a moose hunting culture camp in Tyonek.



Tyonek Moose Hunting Culture Camp



Fall culture camp, 2012



Effect of Proposal: Close the predator control portion of units 16A and 16B to non-resident moose hunting.

Department Recommendation: <u>Take No Action</u>

Rationale: Take no action based on actions taken on Proposal 99.

Mat Valley AC: Fail 0-13-0

Effect of Proposal: Prohibit hunting with off road vehicles in unit 16B until 3:00 am following the day riding.

Department Recommendation: No Recommendation

Allocates opportunity based on transportation method.

Mat Valley AC: Fail 0-13-0

- ▶ Few moose (2%) are harvested by ORV users in 16B.
- Currently no biological concerns for game species have been identified in association with ORV use for the purpose of hunting in this area.

Effect of Proposal: Prohibit hunting with off road vehicles in unit 16B until 3:00 am following the day riding.

Department Recommendation: No Recommendation

Allocates opportunity based on transportation method.

Mat Valley AC: Fail 0-13-0

Effect of Proposal: Prohibit the snaring of bears in Central/Southwest Region.

Department Recommendation: <u>Take No Action</u>

Rationale: For unit 16 - based on the action taken on proposal 103; for the other units mentioned, snaring is currently not allowed.

Effect of Proposal: Prohibit the snaring of bears in Central/Southwest Region.

Department Recommendation: <u>Take No Action</u>

Rationale: Based on board action on proposal 104.



Effect of Proposal: Open unit 16 to brown bear baiting for residents and non-residents.

Department Recommendation: No Recommendation

Mat Valley AC: Pass 11-2-0

- Currently authorized in the Brown Bear Predator Control area.
- Proposal would allow brown bear baiting in all of Unit16.
 - > Opens brown bear baiting for both resident and nonresidents.
 - > Allows up to 3 bait stations per resident hunter.
 - > Nonresidents still require a guide.
 - > Guides can register up to 10 bait stations per guide use area.

- Proposal could increase the annual harvest of brown bears in Unit16, particularly by guided nonresidents.
- Department believes that the Brown bear population can be managed on a sustained yield basis at higher harvest levels (no immediate biological concerns).
- Brown bear baiting is not expected to reduce bear predation on moose calves in Unit 16.

Effect of Proposal: Open unit 16 to brown bear baiting for residents and non-residents.

Department Recommendation: No Recommendation

Mat Valley AC: Pass 11-2-0

Effect of Proposal : Retains the current no closed season for brown bears in the remainder of unit 16B.

Issue: Current regulation will sunset unless further action is taken by the Board

Department Recommendation:

No Recommendation



- The "No closed season" regulation will expire and revert to the former dates of "August 10th – May 31st" if the Board does not reauthorize the season.
- With the exception of "within one mile of the mouth of Wolverine Creek", the current season for the remainder of 16B is "No closed season".
- In Sub-unit 16A, the "No closed season". will also revert to the "August 10th – May 31st" season dates if not reauthorized.

The department believes that the Brown bear population can be managed on a sustained yield basis at higher harvest levels (no immediate biological concerns) if the year-round season is retained.

Unit 16 - Brown bears harvested between June 1 st – Aug 9 th				
Reg. Year	General Season	Control	Total	% of Annual Harvest
2010	24	2	26	16%
2011	21	7	28	22%
2012*	11	0	11	26%

* Harvest to date.

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Department Recommendation:

No Recommendation



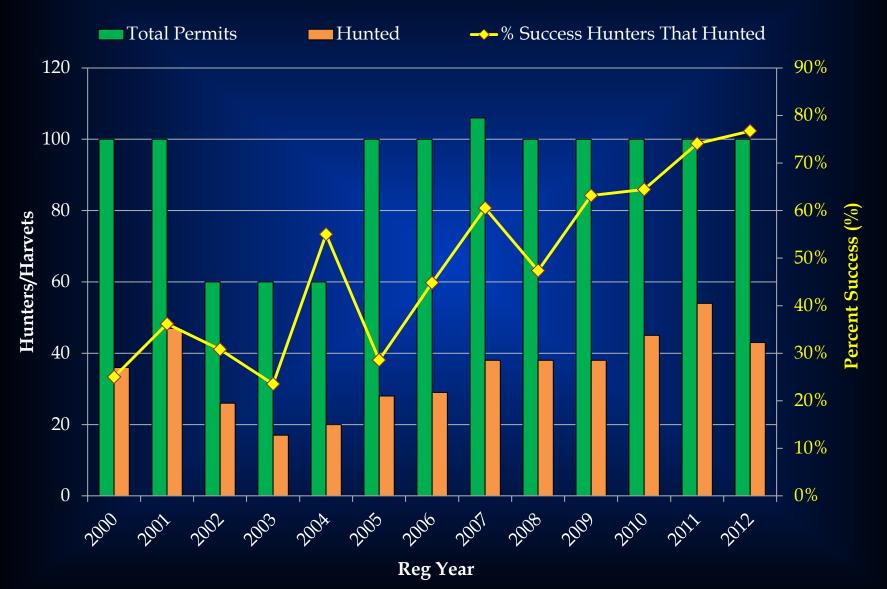
Effect of Proposal: Liberalizes hunting opportunity in the Western Talkeetna Mountains.

- Expands the draw hunt DC590 for caribou in the Western Talkeetna Mountains into sub-unit 14A.
- Adds a winter season that can be offered when harvest opportunity exists.
- Increases the limit of available permits.

Department Recommendation: <u>Amend & Adopt</u>

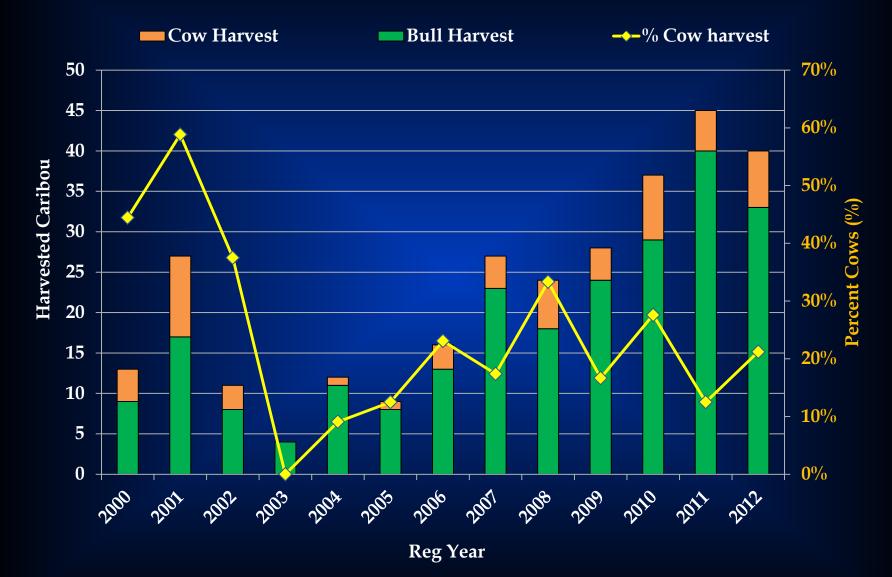
> Amend the bag limit from 1 bull caribou back to 1 caribou.

Mat Valley AC: Pass 8-4-1

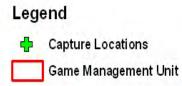


14B Western Talkeetna Hunt Participation (2000-2012)

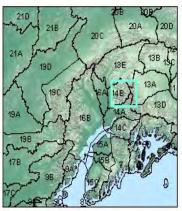
14B Western Talkeetna Caribou Harvest (2000-2012)



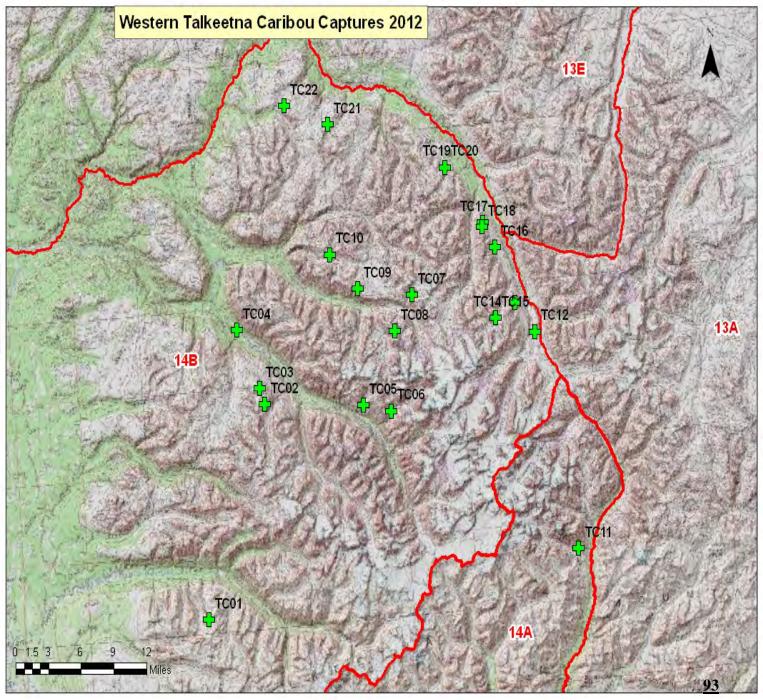




This map shows the locations of caribou captured on 16 and 17 April 2012 for the study of population dynamics of caribou inhabiting the western Talkeetna Mountains in Game Management Unit 14B.



Created 1/10/13 by Tim Peltier, ADF&G from ADF&G sources. Projection 1983 Alaska Albers



Effect of Proposal: Liberalizes hunting opportunity in the Western Talkeetna Mountains.

- Expands the draw hunt DC590 for caribou in the Western Talkeetna Mountains into sub-unit 14A.
- Adds a winter season that can be offered when harvest opportunity exists.
- Increases the limit of available permits.

Department Recommendation: <u>Amend & Adopt</u>

> Amend the bag limit from 1 bull caribou back to 1 caribou.

Mat Valley AC: Pass 8-4-1

Thank You