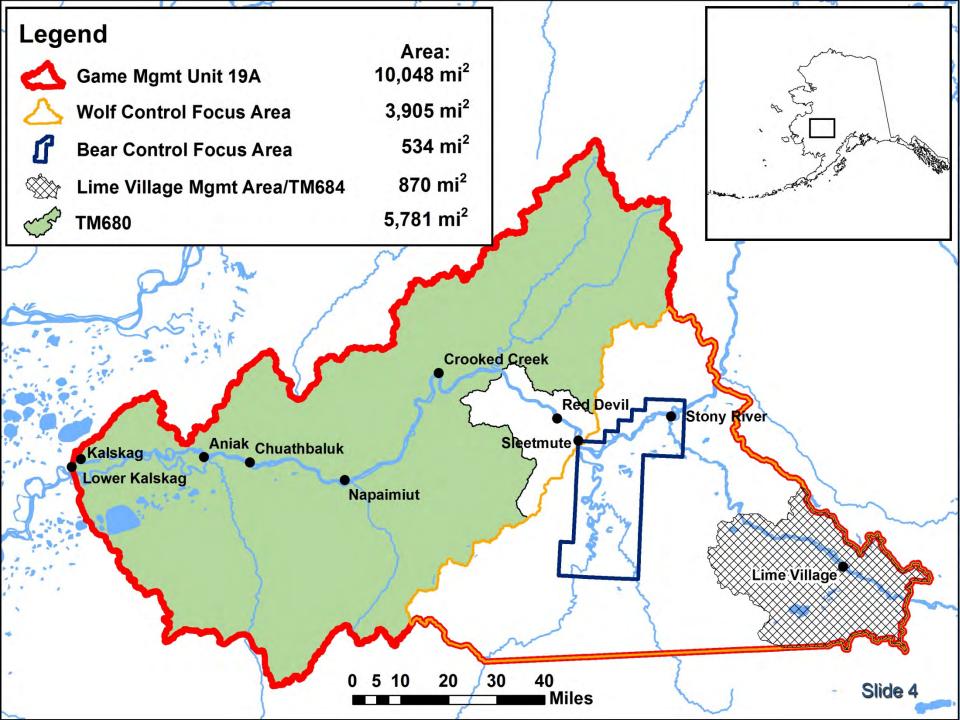
# Unit 19A Black and Brown Bear Predation Control

Black and brown bear lethal removal to enhance moose survival



- Moose seasons reduced/eliminated
- Wolf Predation control
- Moose surveys inconclusive
- Implementation of bear control
- Preliminary moose data

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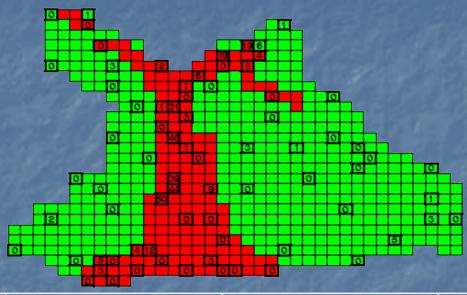


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- Moose seasons reduced/eliminated
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  - Wolf numbers successfully reduced by more than 60% of precontrol levels

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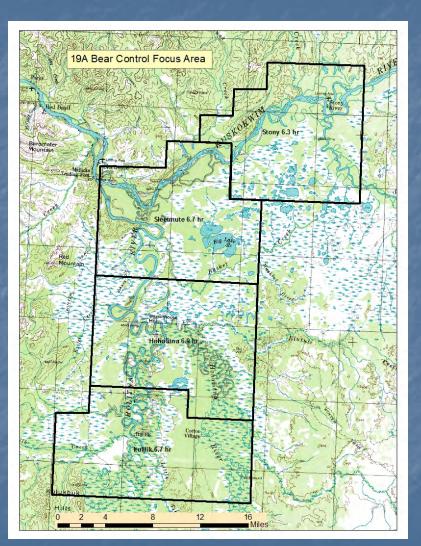
## Moose survey results - density (3874 mi²)



Year	Moose/mi <sup>2</sup>	90% CI	Range
2005	0.28	± 17%	897–1270
2008	0.44	± 28%	1225–2181
2011	0.25	± 18%	789–1135
2011 w/scf	0.43	± 36%	1066–2266

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- Methods
- Bear estimate
- Lethal removal
- Removal tallies
- Meat distribution
- Costs and impacts



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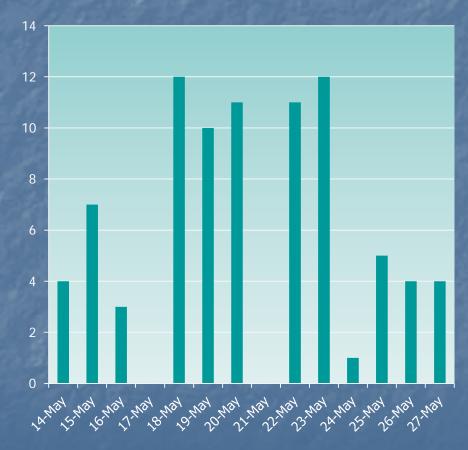
#### **Bears removed**



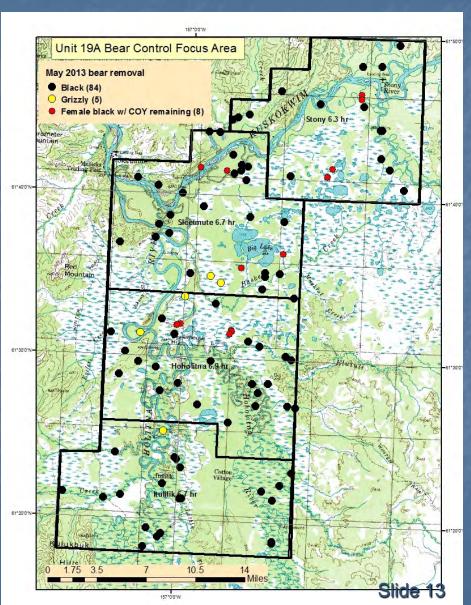
#### Methods

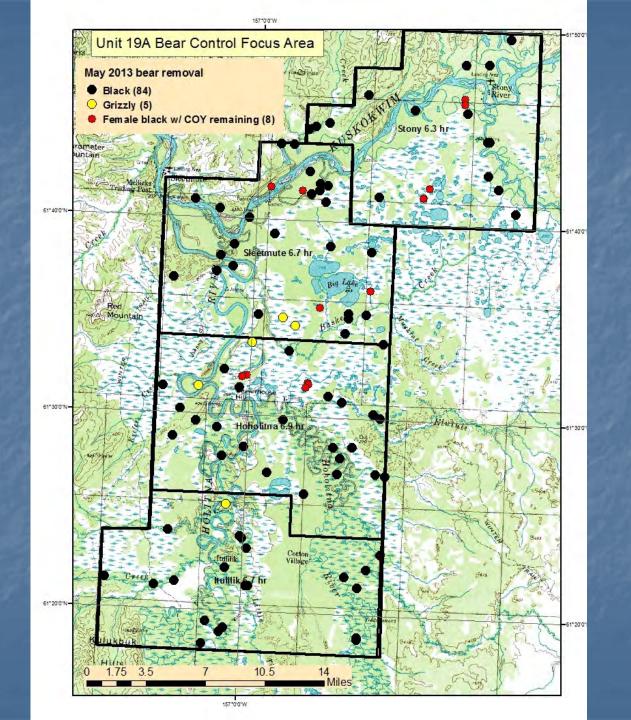
- Bear estimate preliminary
  - 94 independent bears
    - SE=1.9; 95% CI = 92 102)
    - Relative precision4% @ 95% CI

#### **Bears removed**



- Methods
- Bear estimate
- Lethal removal
- Removal tallies
- Meat distribution
- Costs and impacts

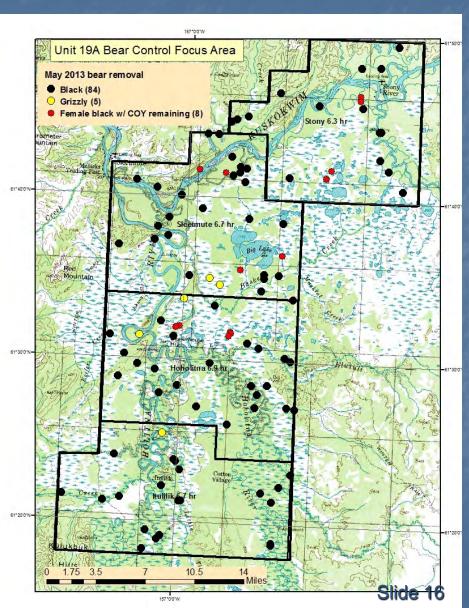




- Methods
- Bear estimate
- Lethal removal
- Removal tallies
- Meat distribution
- Costs and impacts

- 84 black bears
- 5 brown bears
- 8 black bear sows with cubs passed

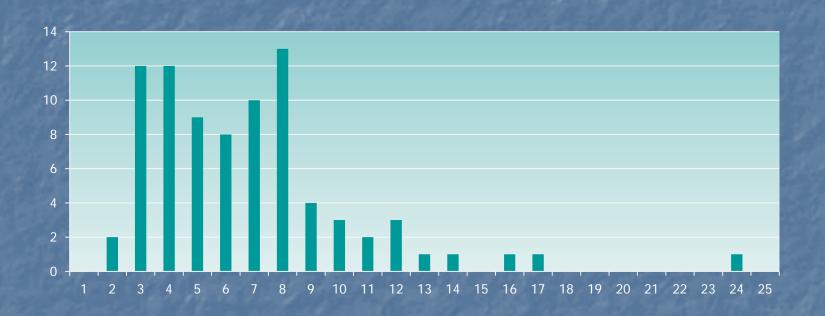
- Methods
- Bear estimate
- Lethal removal
- Removal tallies
  - 89% black bear removal
    - **(82 91%; 95% CI)**



- Methods
- Bear estimate
- Lethal removal
- Removal tallies

Total	Males	Females		% of total w/cubs
99	38	53	8	8%
	62 males:100 females			

#### Black bear age distribution



- Methods
- Bear estimate
- Lethal removal
- Removal tallies
- Meat distribution
- Costs and impacts

89/20/2013 19:2E

9875265235

LINE VILLAGE TRAD

BACE

Lime Village Traditional Council
PO Box LVD – Lime Village VIA
McGrath, Alaska 99627-8099
Phone: 907-526-5236 Fear 907-526-5235 Email: limevillage@gmail.com

May 31, 2013

Dese Fish & Game,

We would like to thank you for the black bear and brown bear meat you brought up to Lime Village Residents. The people sure were thankful for the meat, the meat was well taken care of and very clean.

Thank You Lime Village Residents

fick & Tally Breekheimer

Cather Keme

Courselles Thank You

- Methods
- Bear estimate
- Lethal removal
- Removal tallies
- Meat distribution
- Costs and impacts

- Methods
- Bear estimate
- Lethal removal
- Removal tallies
- Meat distribution
- Costs in dollars and impacts on the region

- Regional impacts
- Monetary impacts
- Opportunity impacts
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#### Preliminary moose data

Composition



Year	Bulls:	Calves:
	100	100
	cows	cows
2005	8	24
2007	35	45
2008	34	27
2009	51	36
2010	48	19
2011	38	31
2013	55	50

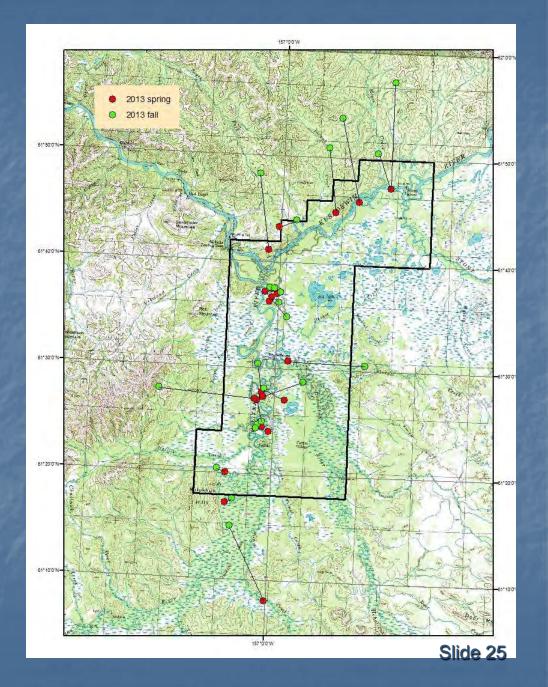
## Preliminary moose data

-22 cow-calf groups located during spring and fall surveys

-Overall 18/35 calves
51% survival
-Outside BCFA 6/18 calves
33% survival
-Within BCFA 12/17 calves
71% survival

-50 calves: 100 cows

-Survival advantage for those calves with cows that remained within the bear control focus area.



#### **Future plans**

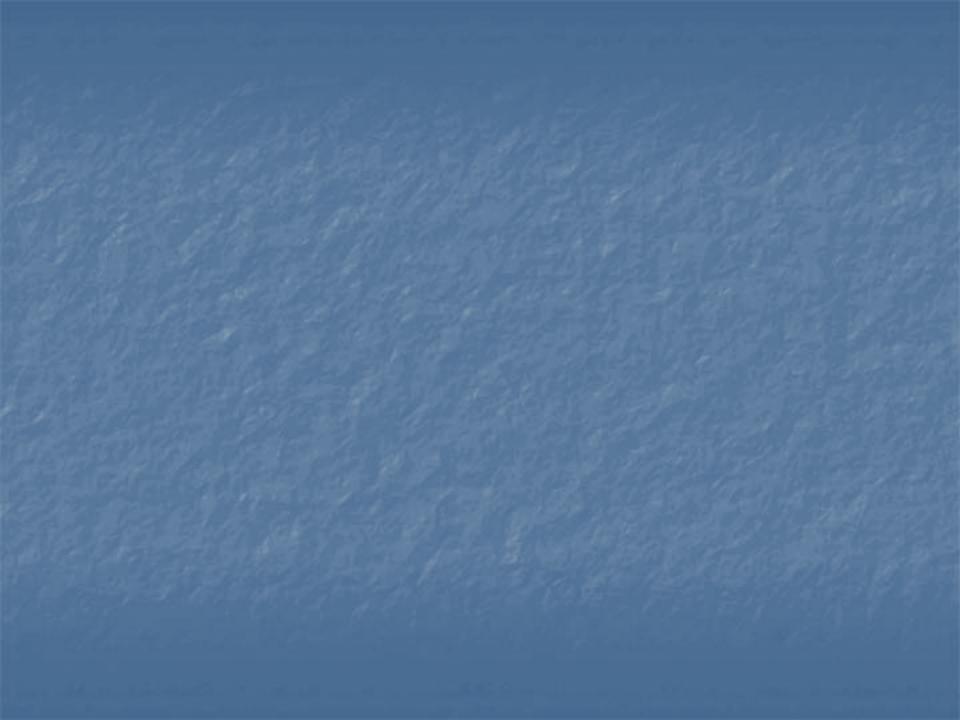
- March 2014
  - GSPE moose estimate within the BCFA
- May 2014
  - Year 2 of bear control
  - Twinning data
  - Calf survival

## END









#### Land ownership

