

2011 - JCR Evaluation Form

SPECIES: Moose

PERIOD: 6/1/2011 - 5/31/2012

HERD: MO545 - SNOWY RANGE

HUNT AREAS: 38, 41

PREPARED BY: WILL SCHULTZ

	2006 - 2010 Average	2011	2012 Proposed
Population:	0	N/A	N/A
Harvest:	37	46	60
Hunters:	40	53	60
Hunter Success:	92%	87%	100 %
Active Licenses:	40	53	60
Active License Percent:	92%	87%	100 %
Recreation Days:	249	389	450
Days Per Animal:	6.7	8.5	7.5
Males per 100 Females	105	98	
Juveniles per 100 Females	47	46	

Population Objective:	100
Management Strategy:	Special
Percent population is above (+) or below (-) objective:	N/A%
Number of years population has been + or - objective in recent trend:	0
Model Date:	None

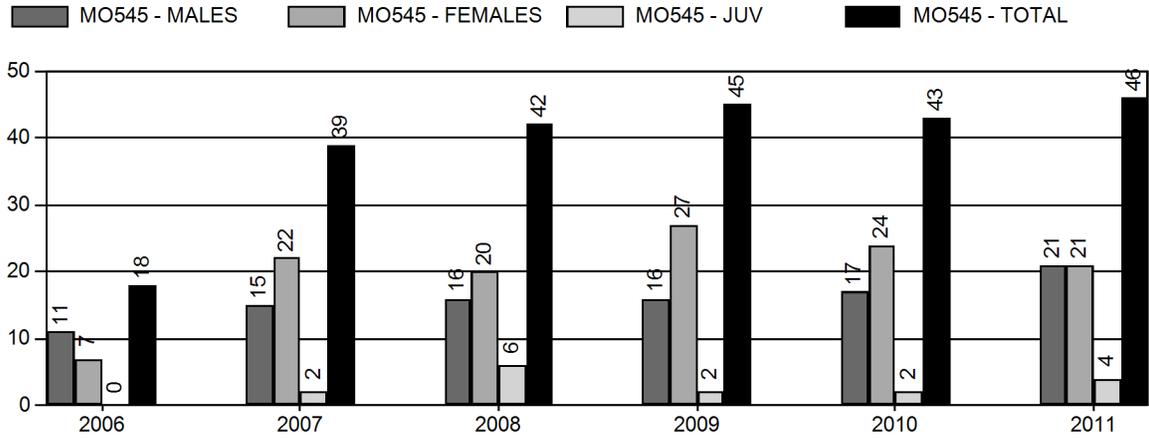
Proposed harvest rates (percent of pre-season estimate for each sex/age group):

	<u>JCR Year</u>	<u>Proposed</u>
Females ≥ 1 year old:	NA%	NA%
Males ≥ 1 year old:	NA%	NA%
Juveniles (< 1 year old):	NA%	NA%
Total:	NA%	NA%
Proposed change in post-season population:	NA%	NA%

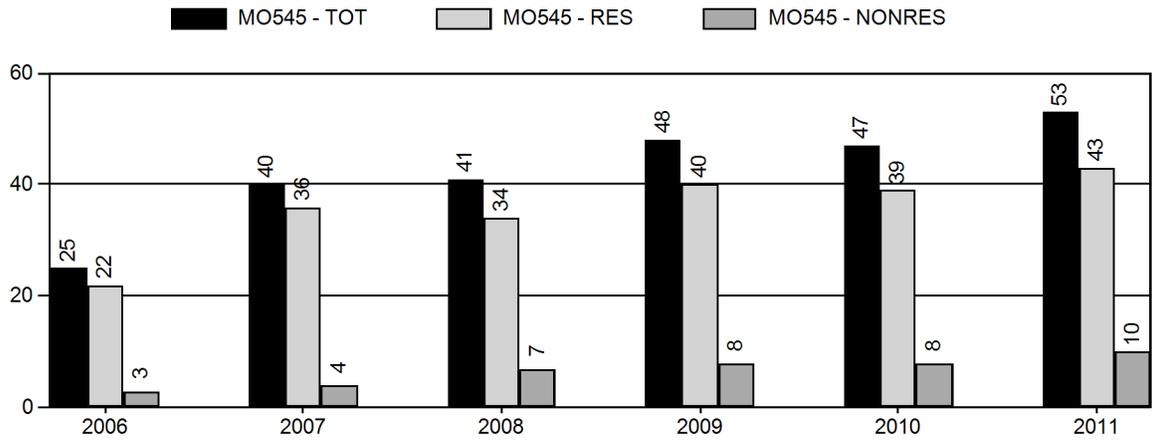
Population Size - Postseason



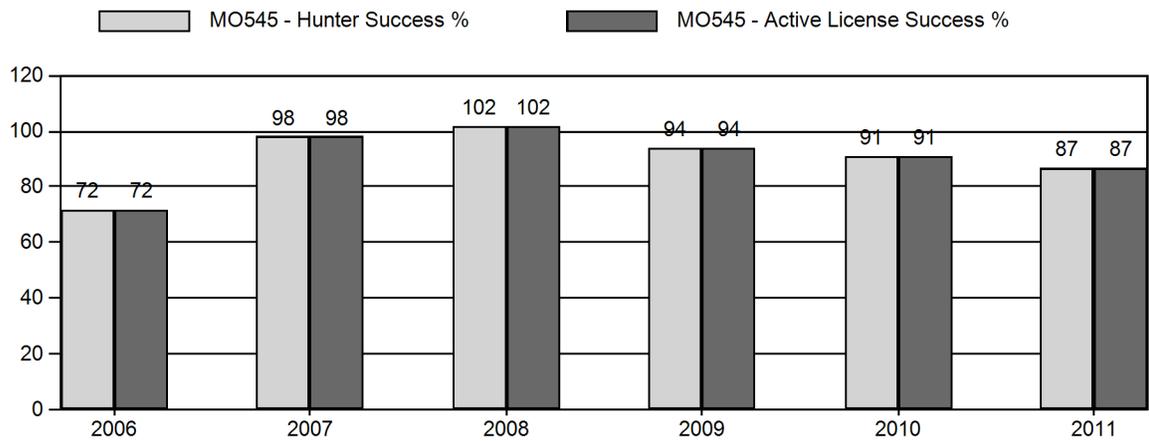
Harvest



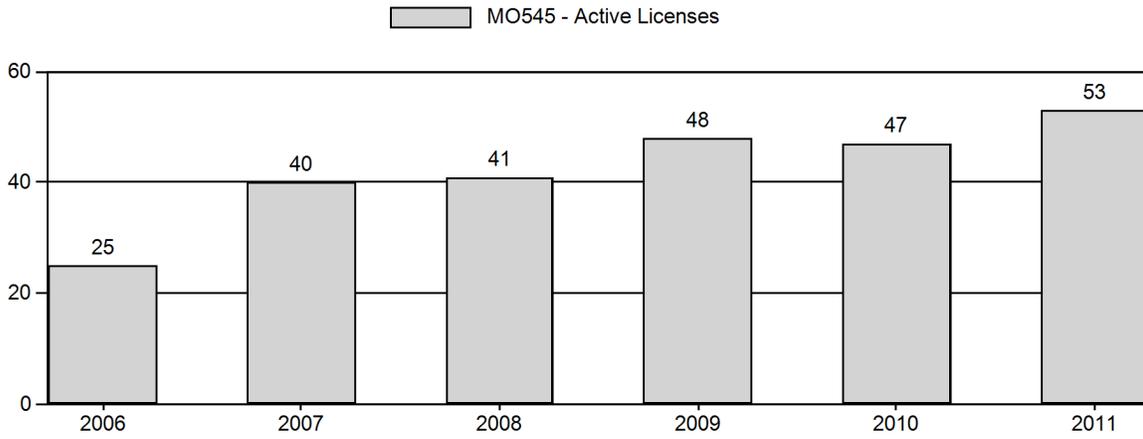
Number of Hunters



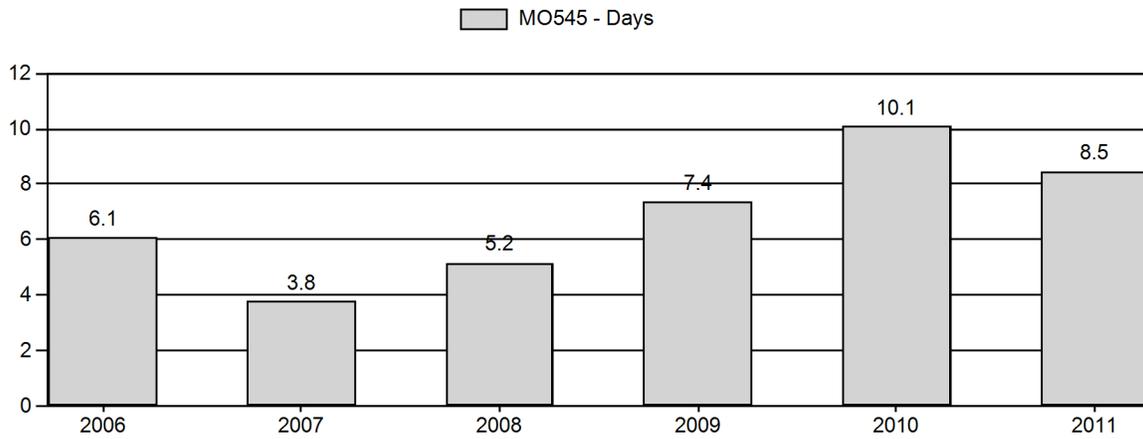
Harvest Success



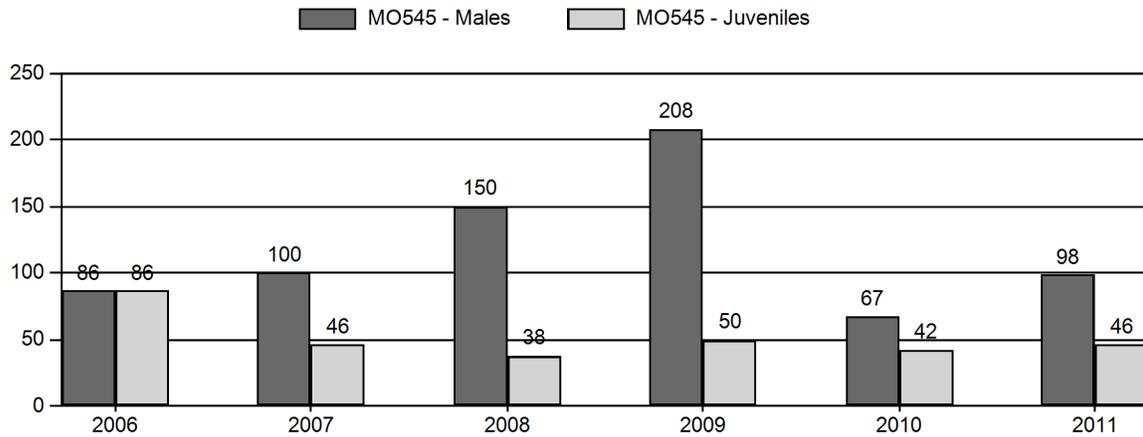
Active Licenses



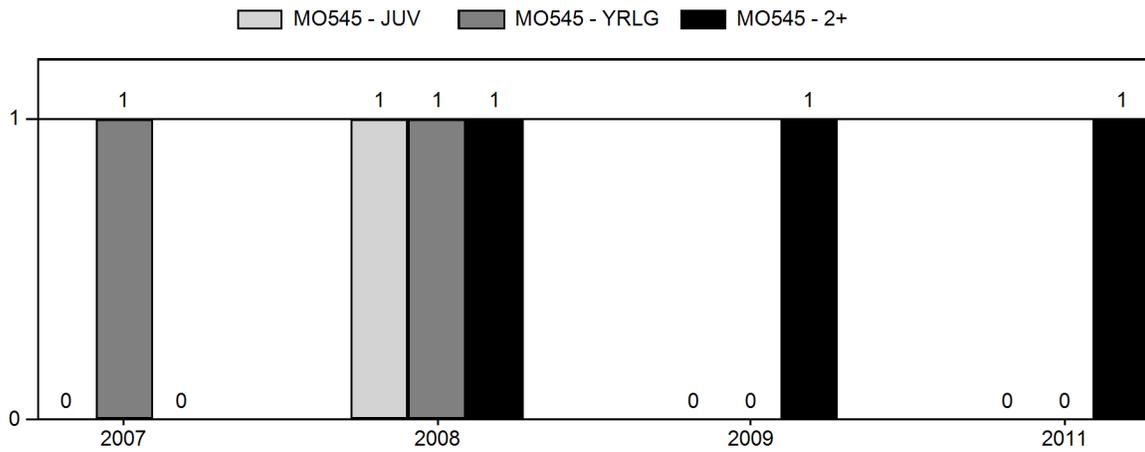
Days per Animal Harvested



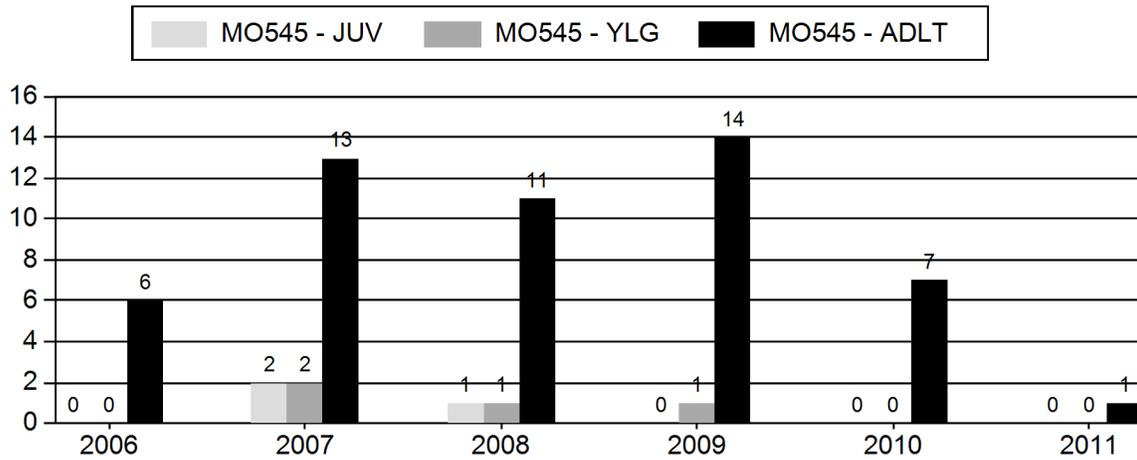
Postseason Animals per 100 Females



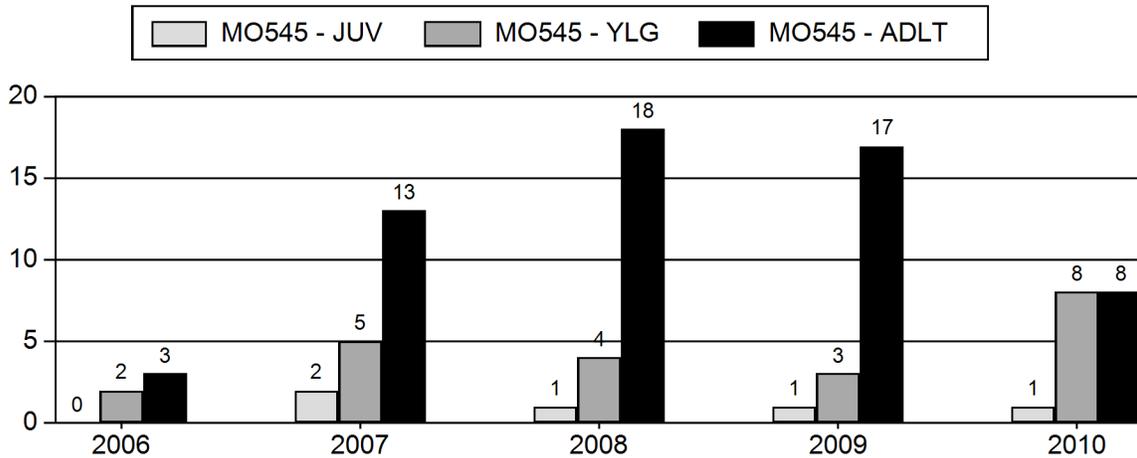
Age Structure of Field Checked Males



Age Structure Data (Field and Laboratory) - Male



Age Structure Data (Field and Laboratory) - Female



2006 - 2011 Postseason Classification Summary

for Moose Herd MO545 - SNOWY RANGE

Year	Post Pop	MALES				FEMALES		JUVENILES		Tot Cls	Cls Obj	Males to 100 Females				Young to		
		Ylg	Adult	Total	%	Total	%	Total	%			YIng	Adult	Total	Int	100 Fem	Conf Int	100 Adult
2006	0	1	5	6	32%	7	37%	6	32%	19	142	14	71	86	± 57	86	± 57	46
2007	0	3	10	13	41%	13	41%	6	19%	32	152	23	77	100	± 45	46	± 26	23
2008	0	1	11	12	52%	8	35%	3	13%	23	144	12	138	150	± 0	38	± 0	15
2009	0	4	21	25	58%	12	28%	6	14%	43	0	33	175	208	± 0	50	± 0	16
2010	0	7	17	24	32%	36	48%	15	20%	75	0	19	47	67	± 0	42	± 0	25
2011	0	3	46	49	40%	50	41%	23	19%	122	0	6	92	98	± 0	46	± 0	23

2011 HUNTING SEASONS

MO545 - SNOWY RANGE

<u>Hunt Area</u>	<u>Add'l Hunt Areas</u>	<u>Type</u>	<u>Quota</u>	<u>Season Dates</u>	<u>Limitations</u>
38	41	Type 1	20	10/01 - 11/14	any moose, except cow moose with calf at side
38	41	Type 4	35	10/01 - 11/14	antlerless moose, except cow moose with calf at side

Area	Type	Active Lic/Htrs	Bull	Cow	Calf	Total	Success	Days/Harvest	Days	Licenses Sold
2011										
38 SNOWY RANGE										
	Type 1	21	21	0	0	21	100%	8.6	180	20
	Type 4	31	0	21	3	24	77.40%	8.3	199	32
	Pooled Total	52 (52)*	21	21	3	45	86.50% (86.5%)*	8.4	379	
	Pooled Resident	42	14	18	3	35	83.30%	9	316	
	Pooled Nonresident	10	7	3	0	10	100%	6.3	63	
41 SIERRA MADRE										
	Type 4	1	0	0	1	1	100%	10	10	0
	Pooled Total	1 (1)*	0	0	1	1	100% (100%)*	10	10	
	Pooled Resident	1	0	0	1	1	100%	10	10	
	Pooled Nonresident	0	0	0	0	0	0	0	0	
	2011 Hunt Area Tota	53 (53)*	21	21	4	46	86.80% (86.8%)*	8.5	389	52
	2011 Herd Total	53 (53)*	21	21	4	46	86.80% (86.8%)*	8.5	389	52
	*Active Licenses									

2006 - 2011 Harvest Age Structure

for Moose Herd MO545 - SNOWY RANGE

Year	Males									Females									Herd Tot
	Juv	1	% *	2 ^	% **	Tot Aged ++	Not Aged +++	Unk	Tot Chkd	Juv	1	% *	2 ^	% **	Tot Aged ++	Not Aged +++	Unk	Tot Chkd	
2006	0	0	0%	6	100%	6	0	0	6	0	2	40%	3	60%	5	0	0	5	11
2007	2	2	13%	13	87%	17	0	0	17	2	5	28%	13	72%	20	0	0	20	37
2008	1	1	8%	11	92%	13	0	2	15	1	4	18%	18	82%	23	0	1	24	39
2009	0	1	7%	13	93%	14	1	0	15	1	3	15%	16	84%	20	1	3	24	39
2010	0	0	0%	7	100%	7	0	0	7	1	8	50%	8	50%	17	0	0	17	24
2011	0	0	0%	1	100%	1	0	0	1	0	0	0%	0	0%	0	0	0	0	1

* Percent of aged animals (including unaged adults but excluding juveniles) 1 1/2 years old

^ Number of animals two years old and older. Animals aged older than two (excluding unaged adults) are lumped into this two plus category

** Percent of aged animals (not including juveniles or unaged adults) two years old or older

++ includes juveniles

+++ Unaged adults - unaged animals older than yearlings

**Snowy Range Moose (MO545)
 Hunt Areas 38, 41
 2012 Season Recommendations**

Hunt Area	Type	Date of Seasons		Limitations
		Opens	Closes	
38, 41	1	Oct. 1	Nov. 14	Limited quota; 20 <u>25</u> licenses any moose, except cow moose with calf at side
	4	Oct. 1	Nov. 14	Limited quota; 35 licenses antlerless moose except cow moose with calf at side
Archery				Refer to Section 4 of this Chapter

Summary of Proposed Changes in License Numbers

Hunt Area	Type	Change From 2011
38, 41	1	+5

Management Evaluation

Traditionally there has been no allocation of funding in this herd unit to collect moose classification data. Moose classification data was collected incidentally during annual mule deer and elk classification surveys. However, in 2011 an additional 8 hours of helicopter time was allocated to collect moose classification data in the Snowy Range herd unit. The 2011 postseason classification sample (n=122) produced total bull ratios of 98/100 cows. Calf ratio were 46/100 cows. This was the largest classification sample ever collected in the Snowy Range herd unit. A POP-II population model has not been developed for this moose herd unit. However, it is assumed the population is stable to decreasing in trend.

Harvest

In 2011, 53 hunters harvested 21 bulls, 21 cows and 4 calves. A total of 3 illegally harvested moose were documented this year, compared to 1 moose documented in 2010. Male lab-aged tooth samples (n=20) indicated this year's median age and percentage of the bull harvest ≥ 5 years of age, were within the "prime-age bull" class (Figures 1, 2 and 3) (Thomas 2008). Age class distribution from female lab-aged tooth samples (n=20) indicated 55% of the antlerless moose harvest were ≤ 2 years old (Figure 4).

Figure 1. Median age of bulls harvested for the Snowy Range Moose Herd Unit (MO545), Wyoming 2011.

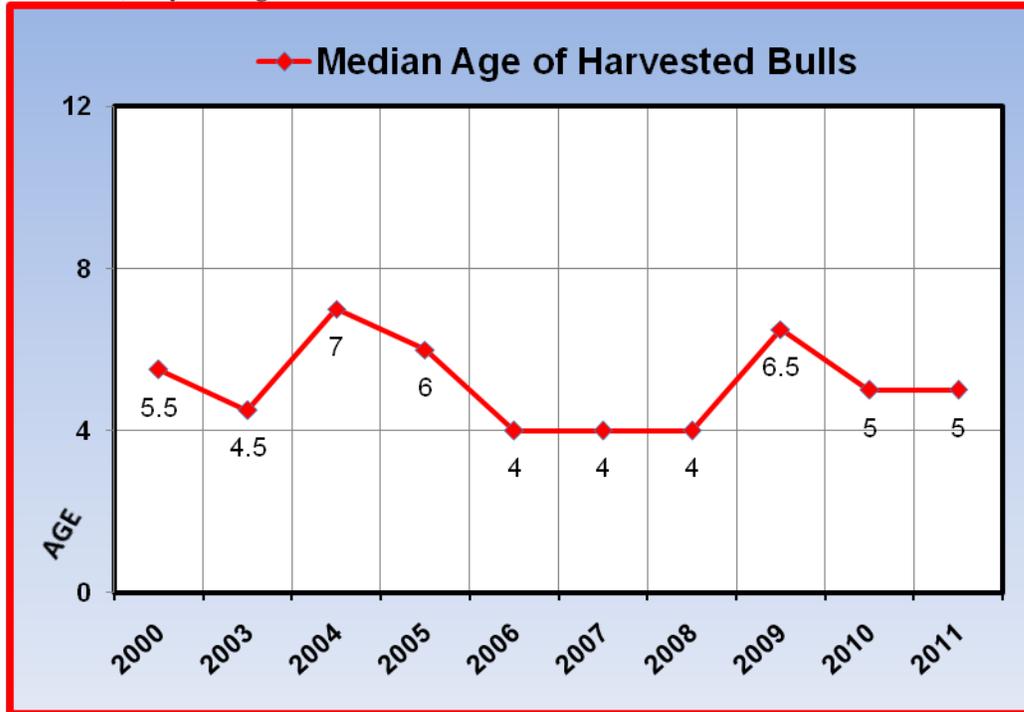


Figure 2. Average (3-year running) median age of bulls harvested for the Snowy Range Moose Herd Unit (MO545), Wyoming 2011.

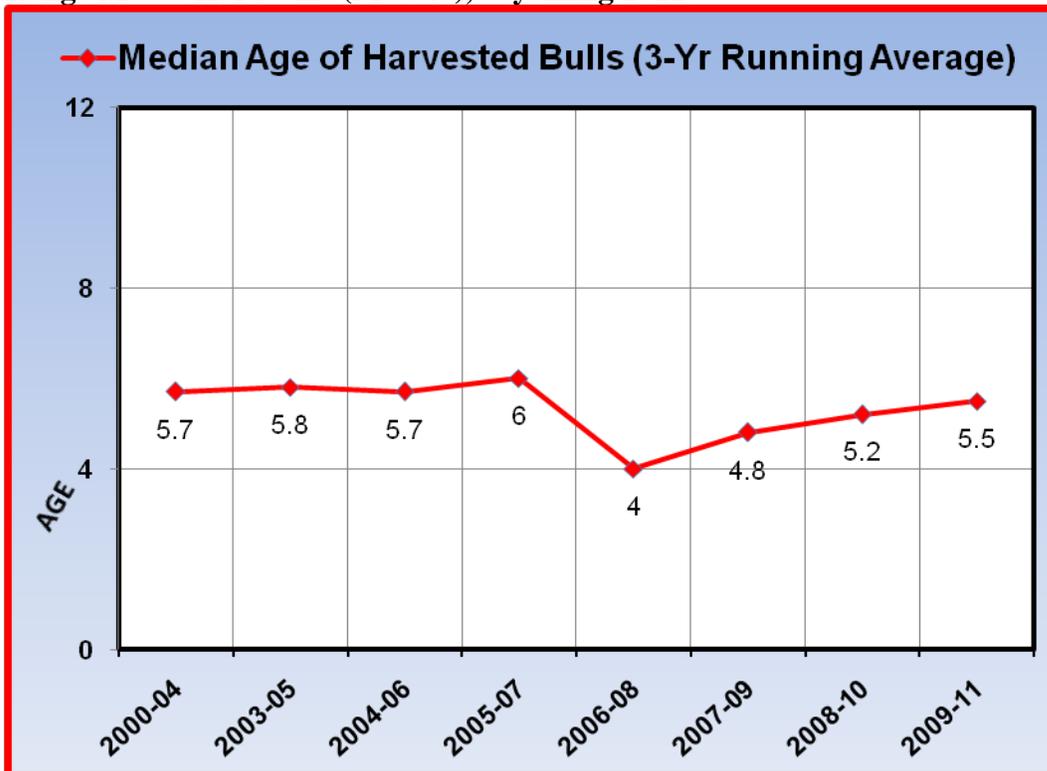


Figure 3. Annual Percentages of the bull harvest \geq 5-years in age from Snowy Range Moose Herd Unit (MO545), Wyoming 2011.

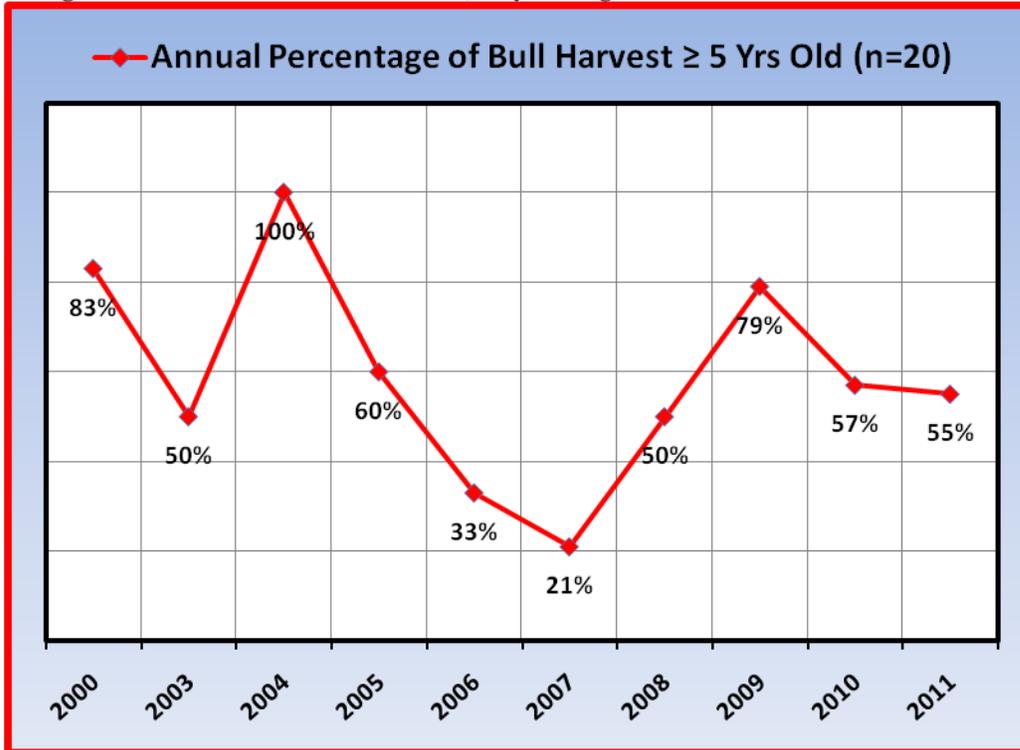
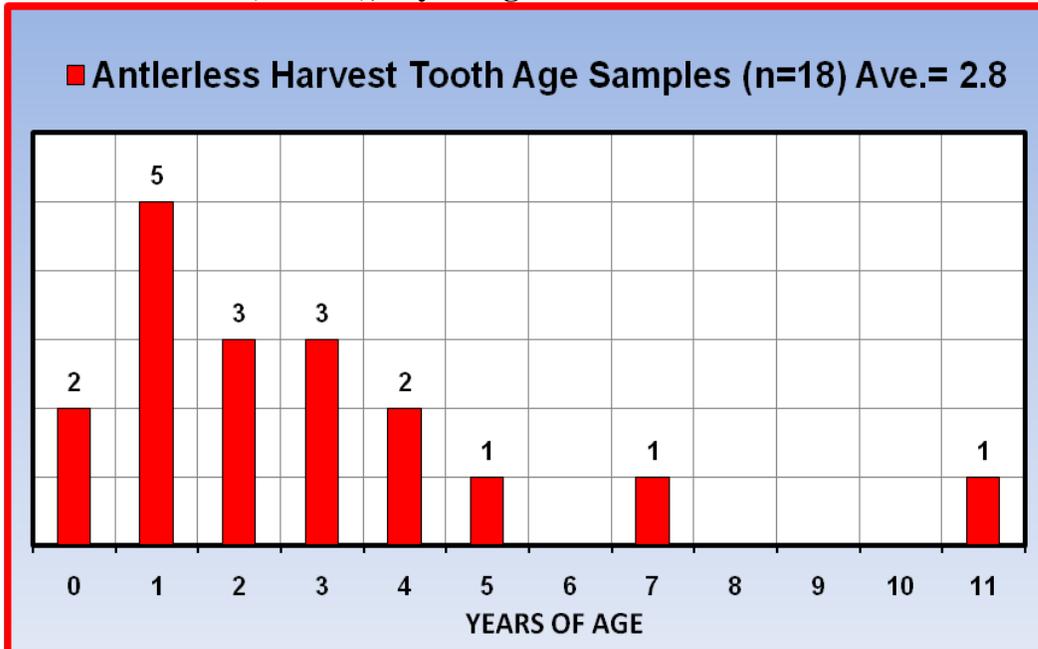


Figure 4. Age class distribution for antlerless moose harvested from Snowy Range Moose Herd Unit (MO545), Wyoming 2011.



2012 Season Proposal

The proposed increase of Type 1 licenses will continue to provide most hunters with an opportunity to harvest mature bulls, while maintaining the number of Type 4 licenses will continue to provide some measure of population control. Age data collected from the 2012 harvest will assist managers in determining future harvest potential for the Snowy Range Herd Unit.

Literature Cited

Thomas, T. P. 2008. Moose Population Management Recommendations. Wyoming Game and Fish Department, Cheyenne. 17 pp.

Moose (M545) -- Snowy Range/Sierra Madre
HA 38, 41
Revised 6/2004

