

## 2010 - JCR Evaluation Form

SPECIES: Moose

PERIOD: 6/1/2010 - 5/31/2011

HERD: MO201 - ABSAROKA

HUNT AREAS: 8-9, 11

PREPARED BY: DOUG  
MCWHIRTER

	2005 - 2009 Average	2010	2011 Proposed
Population:	0	N/A	N/A
Harvest:	9	10	10
Hunters:	10	10	10
Hunter Success:	90%	100%	100 %
Active Licenses:	10	10	10
Active License Percent:	90%	100%	100 %
Recreation Days:	84	98	100
Days Per Animal:	9.3	9.8	10
Males per 100 Females	37	0	
Juveniles per 100 Females	24	0	

Population Objective:	0
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:	1/1/2011

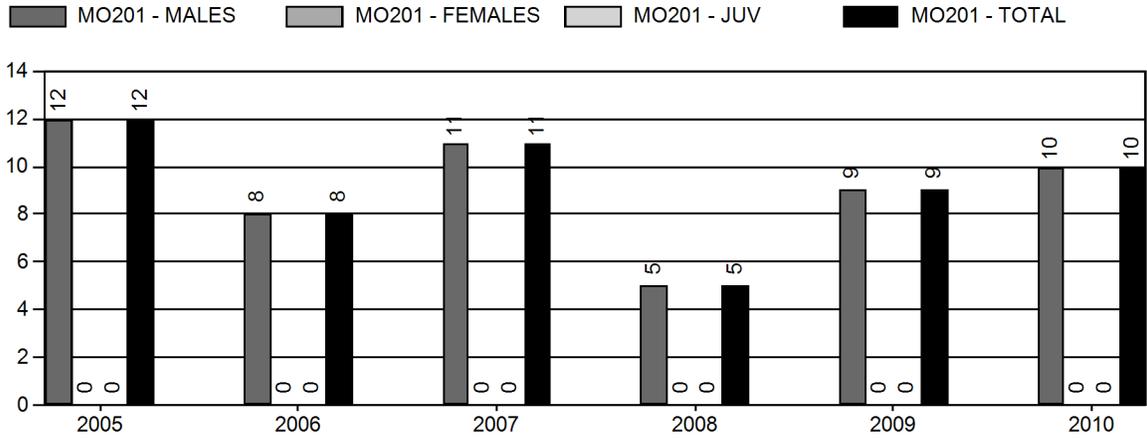
**Proposed harvest rates (percent of pre-season estimate for each sex/age group):**

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

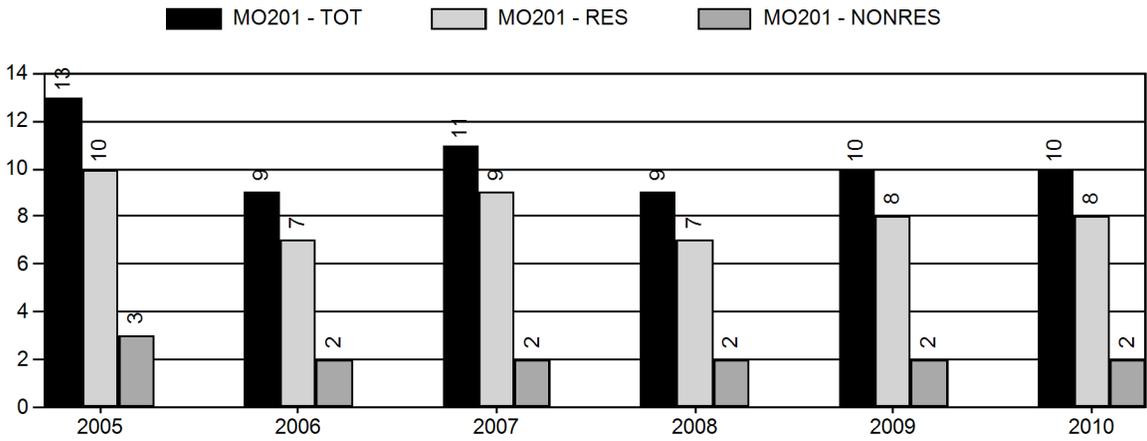
## Population Size - Postseason



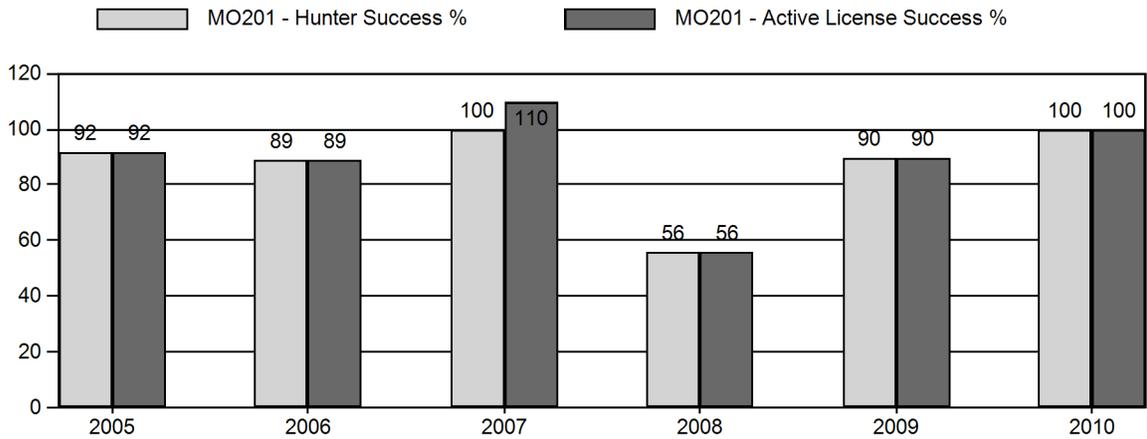
# Harvest



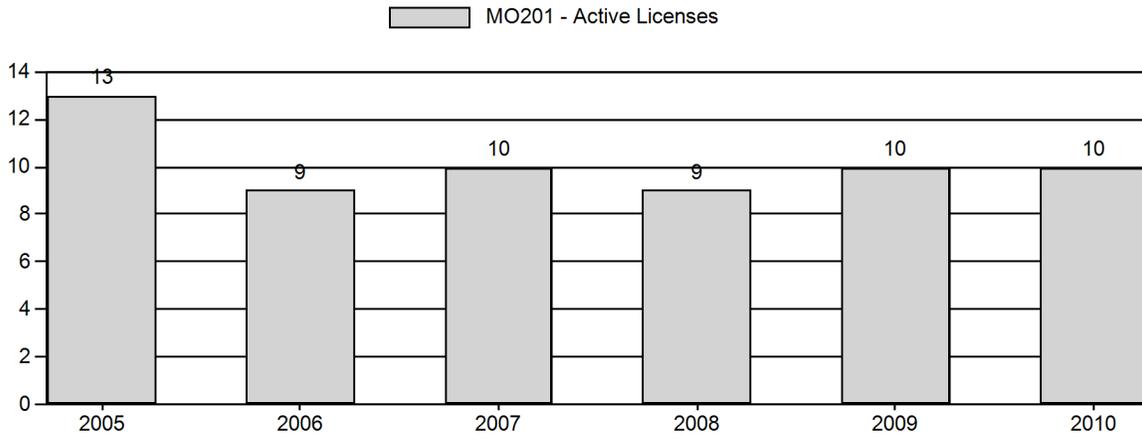
# Number of Hunters



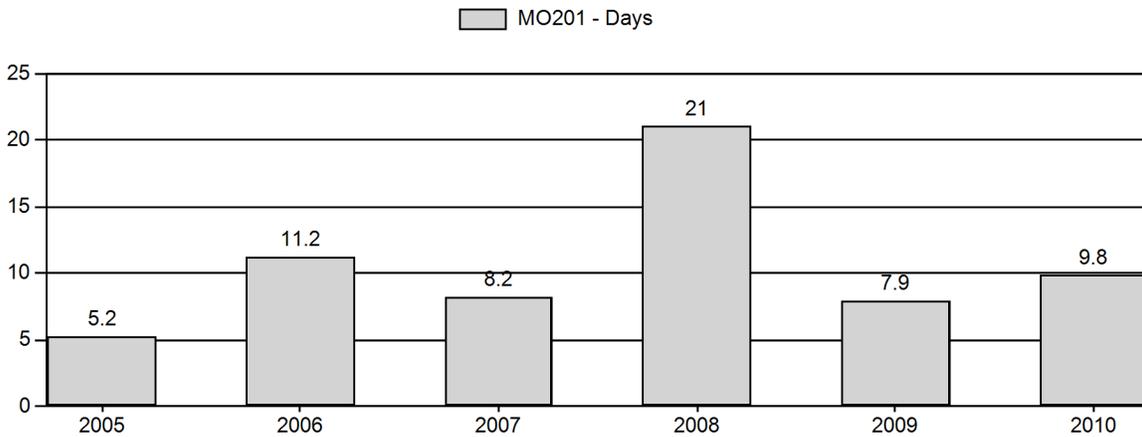
# Harvest Success



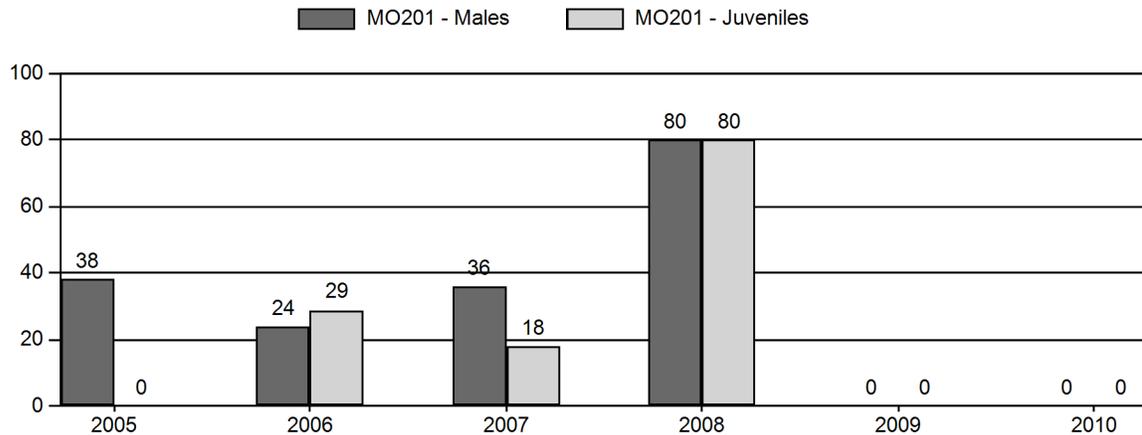
# Active Licenses



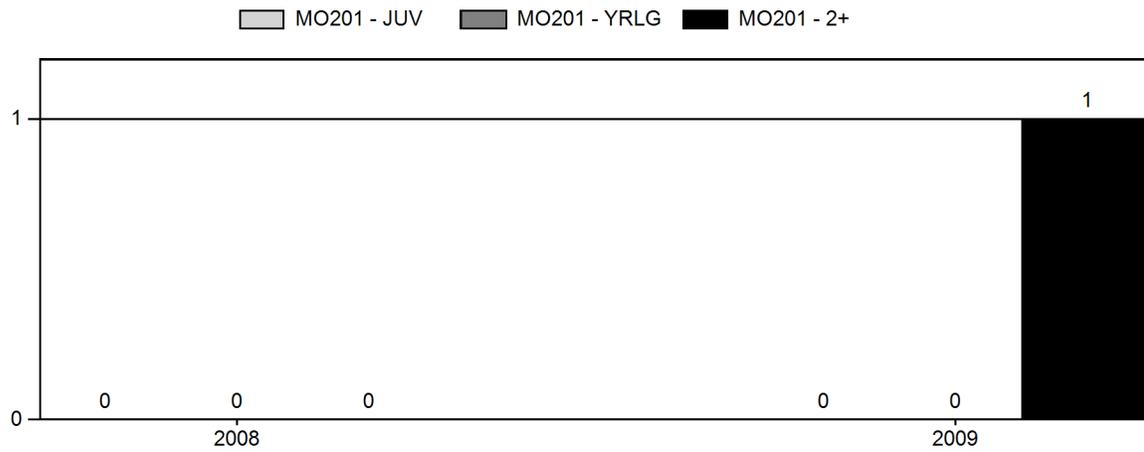
# Days per Animal Harvested



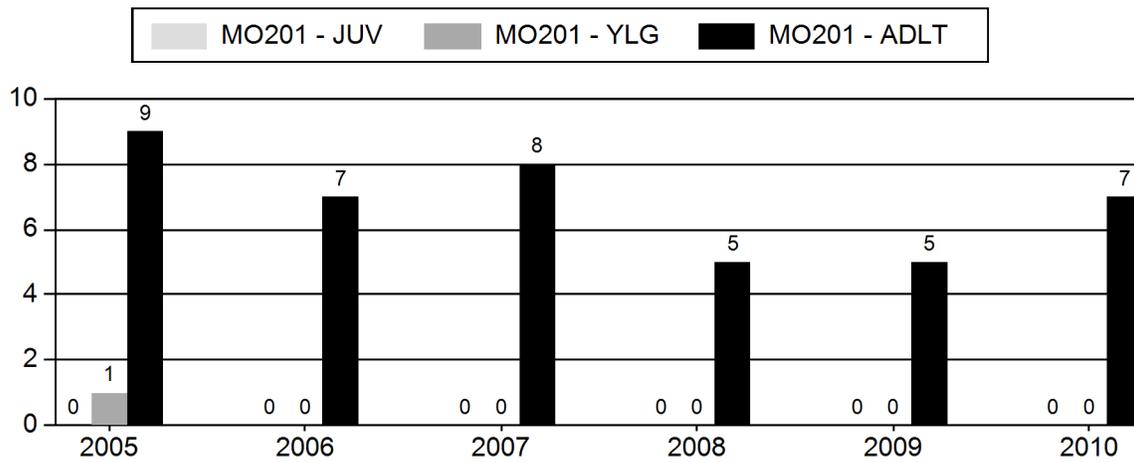
# Postseason Animals per 100 Females



## Age Structure of Field Checked Males



## Age Structure Data (Field and Laboratory) - Male



2005 - 2010 Postseason Classification Summary

for Moose Herd MO201 - ABSAROKA

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
2005	0	1	4	5	28%	13	72%	0	0%	18	0	8	31	38	± 0	0	± 0	0
2006	0	0	4	4	15%	17	65%	5	19%	26	0	0	24	24	± 0	29	± 0	24
2007	0	0	4	4	24%	11	65%	2	12%	17	0	0	36	36	± 0	18	± 0	13
2008	0	0	4	4	31%	5	38%	4	31%	13	0	0	80	80	± 0	80	± 0	44
2009	0	0	0	0	0%	0	0%	0	0%	0	0	0	0	0	± 0	0	± 0	0
2010	0	0	0	0	0%	0	0%	0	0%	0	0	0	0	0	± 0	0	± 0	0

# 2010 HUNTING SEASONS

MO201 - ABSAROKA

<u>Hunt Area</u>	<u>Add'l Hunt Areas</u>	<u>Type</u>	<u>Quota</u>	<u>Season Dates</u>	<u>Limitations</u>
9		ARCH		09/01 - 09/30	Refer to Section 3 of this Chapter
9		Type 1	5	10/01 - 10/31	Antlered
11		ARCH		09/01 - 09/09	Refer to Section 3 of this Chapter
11		Type 1	5	09/10 - 11/10	Antlered

Area	Type	Active Lic/Htrs	Bull	Cow	Calf	Total	Success	Days/Harvest	Days	Lic Sold	
<b>2010</b>											
<b>9 GREYBULL-OWL CREEK</b>											
	Type 1	5	5	0	0	5	100%	8.4	42	5	
	Pooled Total	5	(5)*	5	0	0	5	100% (100%)*	8.4	42	
	Pooled Resident	4		4	0	0	4	100%	9	36	
	Pooled Nonresident	1		1	0	0	1	100%	6	6	
<b>11 ABSAROKA</b>											
	Type 1	5	5	0	0	5	100%	11.2	56	5	
	Pooled Total	5	(5)*	5	0	0	5	100% (100%)*	11.2	56	
	Pooled Resident	4		4	0	0	4	100%	13.2	53	
	Pooled Nonresident	1		1	0	0	1	100%	3	3	
	2010 Hunt Area Tota	10	(10)*	10	0	0	10	100% (100%)*	9.8	98	10
	2010 Herd Total	10	(10)*	10	0	0	10	100% (100%)*	9.8	98	10
*Active Licenses											

## 2005 - 2010 Harvest Age Structure

### for Moose Herd MO201 - ABSAROKA

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	
2005	0	1	10%	9	90%	10	0	0	10	0	0	0%	0	0%	0	0	0	0	10
2006	0	0	0%	7	100%	7	0	0	7	0	0	0%	0	0%	0	0	0	0	7
2007	0	0	0%	8	100%	8	0	0	8	0	0	0%	0	0%	0	0	0	0	8
2008	0	0	0%	5	100%	5	1	0	6	0	0	0%	0	0%	0	0	0	0	6
2009	0	0	0%	5	100%	5	0	1	6	0	0	0%	0	0%	0	0	0	0	6
2010	0	0	0%	7	100%	7	0	0	7	0	0	0%	0	0%	0	0	0	0	7

\* 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

## 2011 HUNTING SEASON Absaroka Moose Herd Unit (MO201)

HUNT AREA	TYPE	Season Dates		LIMITATIONS
		OPENS	CLOSES	
8		CLOSED		
9	1	Oct 1	Oct 31	Limited quota; 5 licenses antlered moose
11	1	Sept 10	Nov 10	Limited quota; 5 licenses antlered moose
9		Sept 1	Sept 30	Archery season; Refer to Section 3
11		Sept 1	Sept 9	Archery season; Refer to Section 3

### SUMMARY OF PROPOSED CHANGES IN LICENSE NUMBER

Area	Type	Change from 2010
9, 11		No Change
<b>Total</b>		
<b>MO201</b>		<b>No Change</b>

### JUSTIFICATION

Hunt Areas 11, 12, 13, and 31 were combined to form Hunt Area 11 in 2008. Together with Hunt Areas 8 and 9, they form the Absaroka Moose herd unit.

In 2010, 5 bulls were taken in Hunt Area 11 by 5 hunters for a success rate of 100%. These hunters expended an average of 11.2 days per moose killed and the average age obtained from 3 known age bulls was 3.5 years (range 2.5 - 4.5).

The current season structure employed in Hunt Area 11 is addressing moose management goals. Moose densities have declined over the last 25 years and are currently quite low. The current level of harvest allows some moose hunting opportunity while encouraging moose numbers to grow. It is recommended that 5 permits be issued for Hunt Area 11 for 2010, and this should result in the harvest of 4-5 bull moose.

Hunt Area 9 hunter success in 2010 was 100%, with all 5 hunters harvesting a moose. Since 1982, annual license quotas have varied between 5 and 10. Hunter success has consistently remained high, while days/animal harvested has varied (Table 2). The average age of harvested moose has remained favorable over the past 5 years. It appears most hunters are finding and selecting for older aged bulls.

Very limited cow harvest (1 in 2001) has occurred over the past 10 years, and field personnel and public perceptions are that moose numbers have declined and remained at very low densities in recent years. Aerial moose trend counts were conducted in this hunt area in May of 2000, 2001, and 2005-2009, resulting in 44, 38, 12, 14, 26, 17, and 13 moose being observed,

respectively. Based on these trend counts, it appears moose numbers declined sometime after 2001, when 38 moose were observed. The average annual number of moose observed since 2005 is 14, which represents about a 66% decline compared to the number of moose seen in 2000 and 2001. Observations of calf moose in this herd unit have been very limited and have declined in recent years. This, along with the effects of drought, reduced habitat conditions and possible increased predation over the past several years has caused this moose population to decline.

No changes for the 2011 season are being proposed for Hunt Area 9. Until moose numbers start to show an increase, license numbers will likely remain static and limited to antlered moose hunting. Season length is again recommended to be the entire month of October, with 5 Type 1 licenses. This season structure should again result in the harvest of 4-5 bull moose.

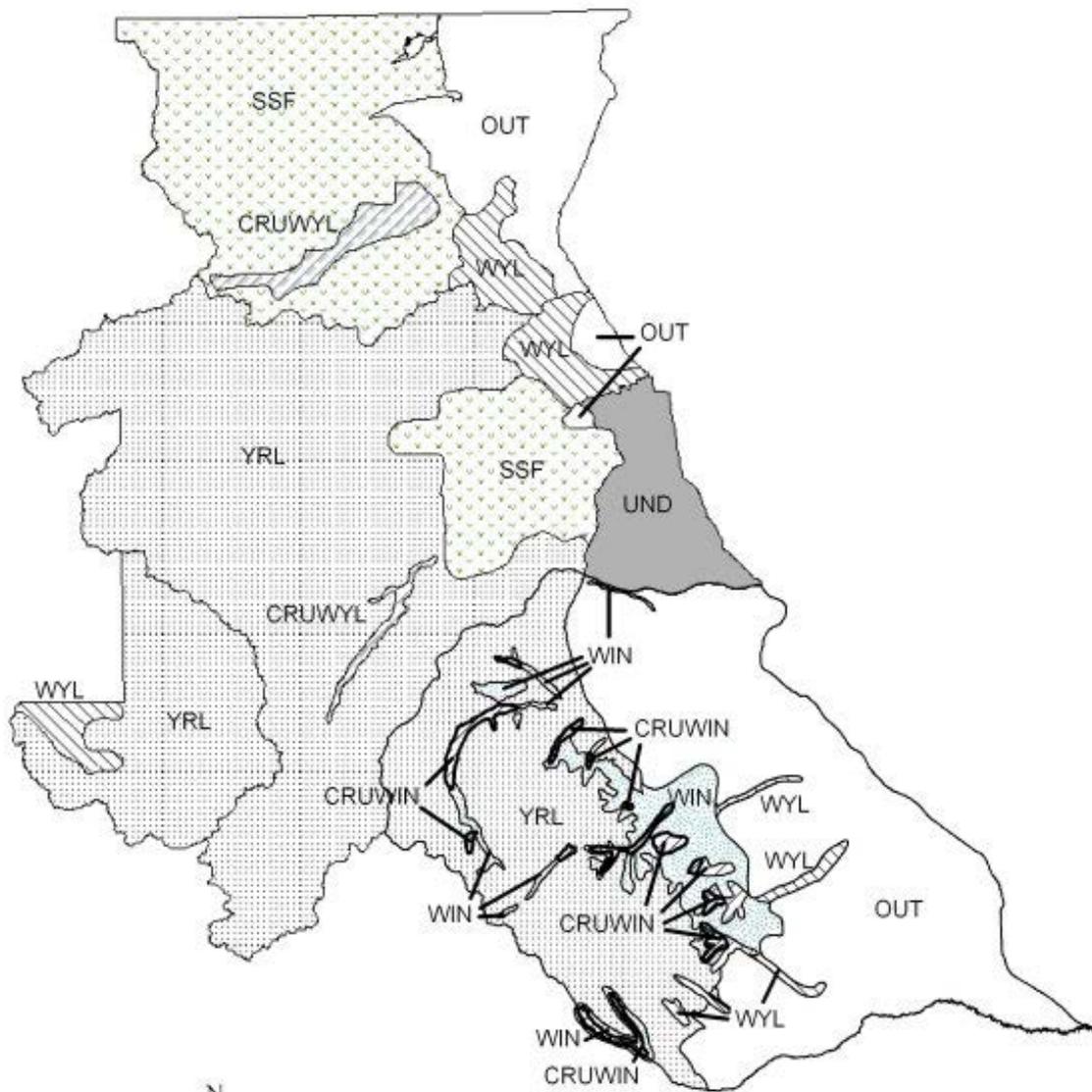
Table 1. Moose harvest parameters for Hunt Area 11 (previously Hunt Areas 11, 12, 13, and 31), 1958-2010.

	1958	1959-60	1961-62	1963-65	1966-67	1968	1969-70	1971	1972-3
# Licenses	8	12	32	40	44	40	16	13	5
Bull Harvest	6	5	23	22.7	17.5	17	9.0	7	4.5
% Success	75.0%	40.9%	77.6%	62.9%	43.8%	50.0%	67.3%	58.3%	100.0%
Days/Moose	-	-	2.5	3.5	5.7	5.9	4.7	7.0	4.3
Avg # Seen	-	-	-	-	4.8	4.3	2.9	8.1	10.0

	1974	1975	1976-80	1981-94	1995-97	1998-2002	2003-2009	2010
# Licenses	10	15	20	25	20	15	5	5
Bull Harvest	9	13	18.6	21.1	16.7	13.0	4.2	5
% Success	90.0%	86.7%	79.6%	87.6%	91.8%	87.9%	85.8%	100%
Days/Moose	3.8	3.6	7.0	5.7	7.1	8.5	10.3	11.2
Avg # Seen	9.1	7.8	-	-	10.3	9.8	11.3	15.8

Table 2. Average harvest parameters for Hunt Area 9 of the Absaroka Herd Unit, 1982-2010.

	1982-1992	1993-1996	1997-1998	1999-2002	2003-2009	2010
# Licenses	5	10	5	10	5	5
Bull Harvest	4.8	9.7	5	8.7	4.3	5
% Success	100%	100%	100%	87.5%	87.1%	100%
Days/Moose	4.7	6.7	2.4	6.8	7.9	8.4
Average Age					5.4	6.8
Avg # Seen			10.6	9.5	8.2	10.2



Moose (M201) - Absaroka  
 HA 8, 9, 11-13, 31  
 Revised 2/05

□ Partition Areas

