

2006 JOB COMPLETION REPORT

SPECIES : White-Tailed Deer
 HERD UNIT : POWDER RIVER
 HERD UNIT # : 303
 HUNT AREAS : 17,19,23-33,163,166,169

PERIOD COVERED : 06/01/2006 - 05/31/2007
 WYOMING PROJECT NO. : W-27-R
 PREPARED BY : TIMOTHY THOMAS

	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>
1. PREHUNT SEX AND AGE RATIO COUNT (per 100 females)					
Juveniles	0	0	0	0	0
Males	0	0	0	0	0
Yearling Males	0	0	0	0	0
Mature Males	0	0	0	0	0
Total Sample Size	0	0	0	0	0
Adequate Sample Size	0	0	0	0	0

2. HARVEST					
Adult Males	1,460	1,522	2,024	1,947	2,075
Yearling Males	0	0	0	0	0
Total Males	1,460	1,522	2,024	1,947	2,075
Females	1,086	1,215	1,303	1,916	2,624
Juveniles	206	208	252	495	409
Totals	2,752	2,945	3,579	4,358	5,108

	#	%	#	%	#	%	#	%	#	%
3. AGE STRUCTURE OF FIELD CHECKED ANIMALS										
Juvenile Female	6	9	6	5	5	4	15	10	5	4
Yearling Female	3	4	2	2	4	3	9	6	4	3
Adult Female	11	16	20	17	17	14	26	17	27	23
Juvenile Male	1	1	9	8	10	8	8	5	1	1
Yearling Male	5	7	8	7	16	13	12	8	10	9
Adult Male	43	62	70	61	71	58	82	54	70	60
Total Sample Size	69		115		123		152		117	

4. POSTHUNT SEX AND AGE RATIO COUNT (per 100 females)					
Juveniles	77	91	66	80	66
Males	30	28	25	33	28
Yearling Males	15	11	10	13	11
Mature Males	15	17	15	20	17
Total Sample Size	1,496	2,727	1,596	1,747	2,493
Adequate Sample Size	1,626	2,142	1,285	1,790	1,244

5. POPULATION TRENDS					
Trend Count Dates:					
Trend Count:	0	0	0	0	0
Herd Model Pop Est:	12,643	13,970	16,264	14,881	11,643
Line Trans Pop Est:	0	0	0	0	0

SEX AND AGE COUNT REPORT

SPECIES : **White-Tailed Deer**

HERD UNIT : **POWDER RIVER**

YEAR : **2006**

PREPARED BY : **TIMOTHY THOMAS**

POSTHUNT CLASSIFICATION DATES : NOV. - DEC.

Hunt Area	----- MALES -----			Females	Juveniles	Total
	Yearlings	Adults	Total			
023	15	22	37	220	128	385
024	28	58	86	379	233	698
026	40	35	75	264	161	500
027	9	30	39	133	99	271
029	20	33	53	158	119	330
030	29	33	62	117	99	278
033	2	6	8	15	8	31
Total Sample	143	217	360	1,286	847	2,493
Adequate Sample			180	641	422	1,244
Precision	@	80	C.L.			

Juveniles / 100 Females : 66 ± 3
Total Males / 100 Females : 28 ± 2
Adult Males / 100 Females : 17
Yearlings / 100 Females : 11

SPECIES : **White-Tailed Deer**

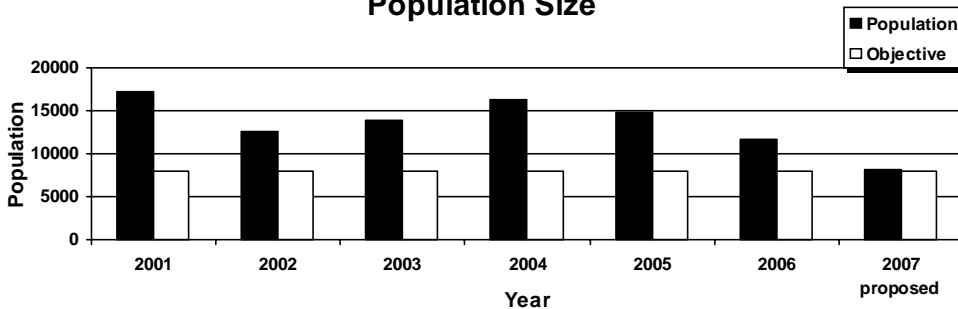
MODEL DATE :

HERD UNIT : **POWDER RIVER**

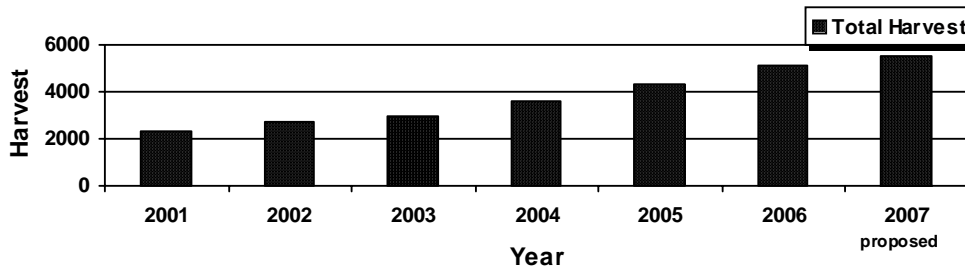
YEAR : **2006**

	Averages 2001 - 2005	2006	Proposed 2007	Objective
Population (Est.)	15,006	11,643	8,200	8,000
Harvest	3,187	5,108	5,500	
Hunters	4,867	6,653	7,000	
Hunter Success	65.5%	76.8%	78.6%	
Active Licenses	5,347	7,543	8000	
Active Licenses Success	59.6%	67.7%	68.8%	
Recreation Days	21,017	32,712	33,000	
Days/Animal	6.6	6.4	6.0	

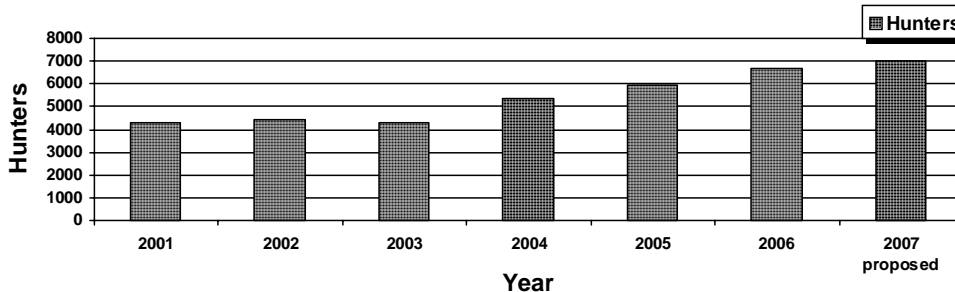
Population Size

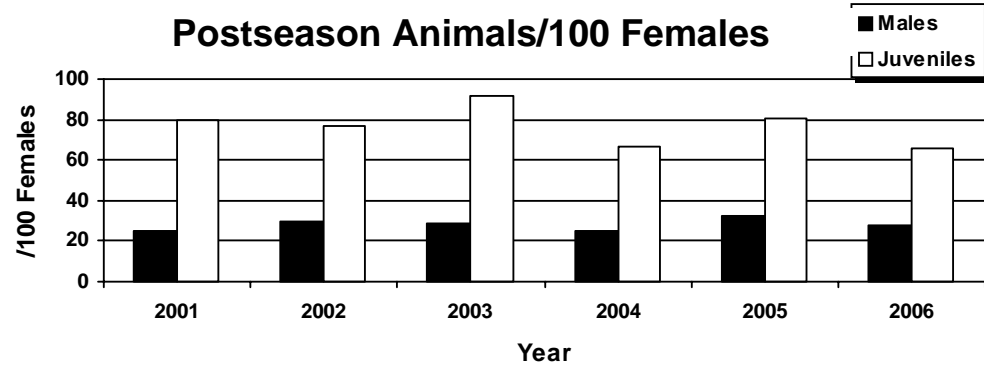
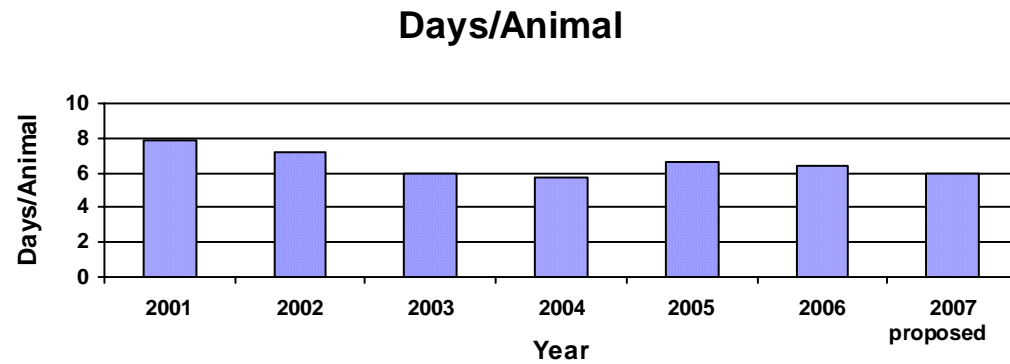
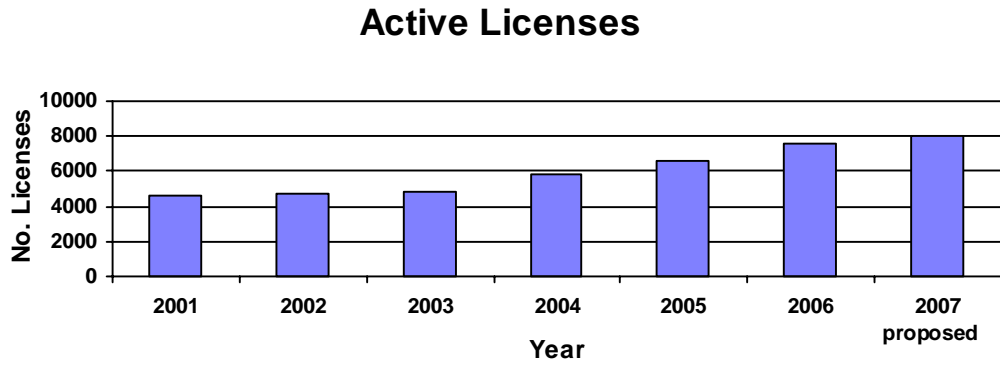
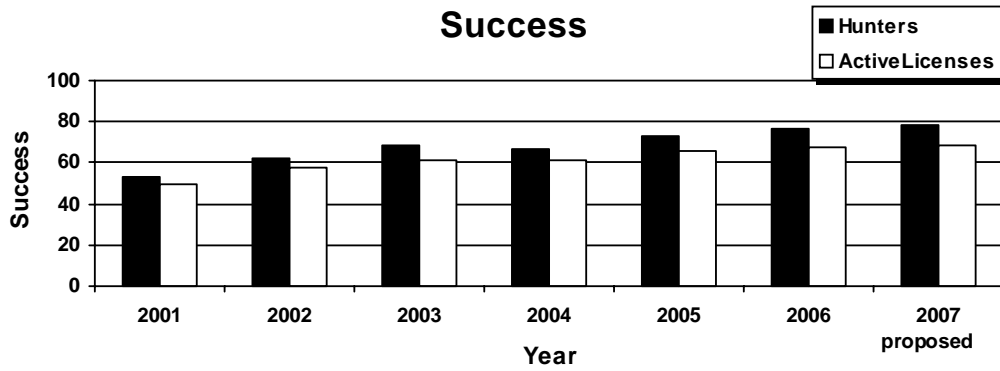


Harvest



of Hunters





**POWDER RIVER WHITE-TAILED DEER
(WTD 303)
Hunt Areas 17, 19, 23 - 33, 163, 169
2006 Hunting Seasons**

HUNT AREA	TYPE	SEASON DATES		LIMITATIONS
		OPENS	CLOSES	
17,19		Oct. 1	Oct. 22	General license; antlered deer off private land, any deer on private land
17		Nov. 1	Nov. 30	General license; any white-tailed deer
10, 17,18, 19, 20,21	6	Oct. 1	Oct. 31	Limited quota; 800 licenses doe or fawn valid on private land
23,26		Oct. 1	Oct. 14	General license; antlered deer off private land, any deer on private land
		Nov. 1	Nov. 30	General license; any white-tailed deer
	6	Oct. 1	Dec. 17	Limited quota; 750 licenses doe or fawn valid on private land
	7	Oct. 1	Dec. 17	Limited quota; 750 licenses doe or fawn white-tailed deer
24		Oct. 15	Oct. 31	General license; antlered deer off private land, any deer on private land
		Nov. 1	Nov. 30	General license; any white-tailed deer
		Dec. 1	Dec. 17	General license; antlerless white-tailed deer
	6	Sept. 1	Dec. 17	Limited quota; 500 licenses doe or fawn valid on private land
	7	Sept. 1	Dec. 17	Limited quota; 2,500 licenses doe or fawn white-tailed deer
25		Oct. 15	Oct. 31	General license; antlered deer
27		Oct. 15	Oct. 31	General license; any deer
		Nov. 1	Nov. 30	General license; any white-tailed deer
		Dec. 1	Dec. 17	General license; antlerless white-tailed deer
	6	Oct. 15	Dec. 17	Limited quota; 100 licenses doe or fawn
	7	Oct. 15	Dec. 17	Limited quota; 500 licenses doe or fawn white-tailed deer
28		Oct. 15	Oct. 31	General license; antlered deer
29		Oct. 1	Oct. 14	General license; antlered deer off private land, any deer on private land
		Nov. 1	Nov. 15	General license; any white-tailed deer
		Nov. 16	Nov. 30	General license; antlerless white-tailed deer
	6	Oct. 1	Nov. 30	Limited quota; 300 licenses doe or fawn valid on private land

HUNT AREA	TYPE	SEASON DATES		LIMITATIONS
		OPENS	CLOSES	
30	6	Oct. 15	Oct. 31	General license; any deer
		Nov. 1	Nov. 30	General license; any white-tailed deer
		Oct. 15	Nov. 30	Limited quota; 300 licenses doe or fawn valid on private land
31		Oct. 1	Oct. 10	General license; antlered deer
32,33		Oct. 15	Oct. 31	General license; any deer
		Nov. 1	Nov. 15	General license; any white-tailed deer
32	7	Oct. 15	Nov. 15	Limited quota; 50 licenses doe or fawn white-tailed deer
33	6	Oct. 15	Nov. 15	Limited quota; 200 licenses doe or fawn
163		Oct. 15	Oct. 21	General license; antlered mule deer 4 points or more either antler or any white-tailed deer
		Nov. 1	Nov. 15	General license; any white-tailed deer
169		Oct. 15	Oct. 21	General license; antlered mule deer 4 points or more either antler or any white-tailed deer
		Nov. 1	Nov. 15	General license; any white-tailed deer
ARCHERY All Areas		Sept. 1	Sept. 30	General license; any deer Limited quota; Refer to Section 3 of this Chapter.

HARVEST REPORT

SPECIES **White-Tailed Deer**

HERD UNIT : **POWDER RIVER**

YEAR : **2006**

PERIOD COVERED :

Prepared By : **TIMOTHY THOMAS**

Hunt Area	License Type	L.Q. Licenses	No. Hunters	Ylg. Males	Adult Males	Females	Juveniles	Total	Percent Success	Days/Animal Taken
163	Resident	0	4	0	0	0	0	0	0.0	0.0
	Non-Resident	0	6	0	0	0	0	0	0.0	0.0
	Total	0	10	(10)*	0	0	0	0	0.0 (0.0)*	0.0
169	Resident	0	4	0	0	0	0	0	0.0	0.0
	Non-Resident	0	0	0	0	0	0	0	0.0	0.0
	Total	0	4	(4)*	0	0	0	0	0.0 (0.0)*	0.0
17	Resident	0	234	0	68	18	43	129	55.1	5.0
	Non-Resident	0	63	0	19	0	0	19	30.2	6.3
	Total	0	297	(319)*	0	87	18	43	49.8 (46.4)*	5.2
19	Resident	0	23	0	0	0	0	0	0.0	0.0
	Non-Resident	0	6	0	3	0	0	3	50.0	5.7
	Total	0	29	(29)*	0	3	0	3	10.3 (10.3)*	28.3
23	Resident	0	564	0	156	190	16	362	64.2	7.3
	Non-Resident	0	187	0	59	20	8	87	46.5	5.4
	Total	0	751	(853)*	0	215	210	24	449	59.8 (52.6)*
24	Resident	0	2,109	0	608	1,241	129	1,978	93.8	7.2
	Non-Resident	0	717	0	247	422	18	687	95.8	3.7
	Total	0	2,826	(3403)*	0	855	1,663	147	2,665	94.3 (78.3)*
25	Resident	0	129	0	25	0	0	25	19.4	9.4
	Non-Resident	0	41	0	19	0	0	19	46.3	7.5
	Total	0	170	(170)*	0	44	0	0	44	25.9 (25.9)*
26	Resident	0	412	0	157	90	29	276	67.0	7.7
	Non-Resident	0	153	0	56	47	8	111	72.5	5.4
	Total	0	565	(650)*	0	213	137	37	387	68.5 (59.5)*
27	Resident	0	762	0	203	309	65	577	75.7	8.2
	Non-Resident	0	304	0	69	92	51	212	69.7	5.4
	Total	0	1,066	(1245)*	0	272	401	116	789	74.0 (63.4)*
28	Resident	0	183	0	67	0	0	67	36.6	8.3
	Non-Resident	0	66	0	41	0	0	41	62.1	3.7
	Total	0	249	(249)*	0	108	0	0	108	43.4 (43.4)*
29	Resident	0	138	0	42	51	13	106	76.8	4.2
	Non-Resident	0	101	0	31	12	4	47	46.5	4.8
	Total	0	239	(287)*	0	73	63	17	153	64.0 (53.3)*
	Resident	0	156	0	60	35	8	103	66.0	3.8

HARVEST REPORT

SPECIES **White-Tailed Deer**

HERD UNIT : **POWDER RIVER**

YEAR : **2006**

PERIOD COVERED :

Prepared By : **TIMOTHY THOMAS**

Hunt Area	License Type	L.Q. Licenses	No. Hunters		Ylg. Males	Adult Males	Females	Juveniles	Total	Percent Success	Days/Animal Taken
30	Non-Resident	0	106		0	22	6	3	31	29.2	8.7
	Total	0	262	(279)*	0	82	41	11	134	51.1 (48.0)*	4.9
	Resident	0	5		0	5	0	0	5	100.0	1.0
31	Non-Resident	0	9		0	0	0	0	0	0.0	0.0
	Total	0	14	(14)*	0	5	0	0	5	35.7 (35.7)*	3.6
	Resident	0	19		0	9	2	0	11	57.9	13.6
32	Non-Resident	0	27		0	6	14	0	20	74.1	3.9
	Total	0	46	(46)*	0	15	16	0	31	67.4 (67.4)*	7.4
	Resident	0	201		0	59	48	14	121	60.2	3.4
33	Non-Resident	0	160		0	44	27	0	71	44.4	4.4
	Total	0	361	(380)*	0	103	75	14	192	53.2 (50.5)*	3.8
	Resident	0	4,734		0	1,459	1,984	317	3,760	79.4	7.1
Total	Non-Resident	0	1,919		0	616	640	92	1,348	70.2	4.5
	Total	0	6,653	(7543)*	0	2,075	2,624	409	5,108	76.8 (67.7)*	6.4

* Active Licenses

2006 AGE STRUCTURE OF FIELD CHECKED ANIMALS

SPECIES : **White-Tailed Deer**
 HERD UNIT : **POWDER RIVER**

PREPARED BY : **TIMOTHY THOMAS**

Hunt Area	Sex	Young	1+	2+	3+	4+	5+	6+	7+	Older	Unaged Adults *	Total
17	Male	0	0	0	0	0	0	0	0	0	6	6
	Female	0	0	0	0	0	0	0	0	0	0	0
23	Male	0	0	0	0	0	0	0	0	0	3	3
	Female	0	0	0	0	0	0	0	0	0	0	0
24	Male	0	5	2	0	0	0	0	0	0	22	29
	Female	0	0	0	0	0	0	0	0	0	9	9
25	Male	0	0	0	0	0	0	0	0	0	1	1
	Female	0	0	0	0	0	0	0	0	0	0	0
26	Male	0	2	0	0	0	0	0	0	0	5	7
	Female	0	0	0	0	0	0	0	0	0	4	4
27	Male	1	1	1	0	0	0	0	0	0	20	23
	Female	4	2	1	0	0	0	0	0	0	5	12
29	Male	0	1	0	0	0	0	0	0	0	2	3
	Female	0	0	2	0	0	0	0	0	0	2	4
30	Male	0	0	0	0	0	0	0	0	0	3	3
	Female	0	0	0	0	0	0	0	0	0	0	0
33	Male	0	1	0	0	0	0	0	0	0	5	6
	Female	1	2	0	0	0	0	0	0	0	4	7
Totals :	Male	1	10	3	0	0	0	0	0	0	67	81
	Female	5	4	3	0	0	0	0	0	0	24	36

* Unaged animals older than yearlings

Total Aged : 117

POWDER RIVER WHITE-TAILED DEER
(WTD 303)
Hunt Areas 17, 19, 23 - 33, 163, 169
2007 Season Recommendations

HUNT AREA	TYPE	SEASON DATES		LIMITATIONS
		OPENS	CLOSES	
17		Oct. 1	Oct. 20	General license; antlered deer off private land, any deer on private land
		Nov. 1	Nov. 30	General license; any white-tailed deer
17,18, 19,20,21	6	Oct. 1	Oct. 31	Limited quota; 1,000 licenses doe or fawn valid on private land
19		Oct. 1	Oct. 20	General license; antlered deer off private land, any deer on private land
23		Oct. 1	Oct. 14	General license; antlered deer off private land, any deer on private land
		Nov. 1	Nov. 30	General license; any white-tailed deer
23,26	3	Nov. 1	Nov. 30	Limited quota; 50 licenses any white-tailed deer
	6	Oct. 1	Dec. 16	Limited quota; 1,000 licenses doe or fawn valid on private land
	7	Oct. 1	Dec. 16	Limited quota; 750 licenses doe or fawn white-tailed deer
24		Oct. 15	Oct. 31	General license; antlered deer off private land, any deer on private land
		Nov. 1	Nov. 30	General license; any white-tailed deer
		Dec. 1	Dec. 16	General license; antlerless white-tailed deer
	6	Sept. 1	Dec. 16	Limited quota; 1,000 licenses doe or fawn valid on private land
	7	Sept. 1	Dec. 16	Limited quota; 2,000 licenses doe or fawn white-tailed deer
24,27	3	Nov. 1	Nov. 30	Limited quota: 100 licenses any white-tailed deer
25		Oct. 15	Oct. 31	General license; antlered deer
26		Oct. 1	Oct. 14	General license; antlered deer off private land, any deer on private land
		Nov. 1	Nov. 30	General license; any white-tailed deer
27		Oct. 15	Oct. 31	General license; any deer
		Nov. 1	Nov. 30	General license; any white-tailed deer
		Dec. 1	Dec. 16	General license; antlerless white-tailed deer
	6	Oct. 15	Dec. 16	Limited quota; 200 licenses doe or fawn
	7	Oct. 15	Dec. 16	Limited quota; 700 licenses doe or fawn white-tailed deer
28		Oct. 15	Oct. 31	General license; antlered deer

HUNT AREA	TYPE	SEASON DATES		LIMITATIONS
		OPENS	CLOSES	
29		Oct. 1	Oct. 14	General license; antlered deer off private land, any deer on private land
	6	Nov. 1	Nov. 15	General license; any white-tailed deer
		Oct. 1	Nov. 30	Limited quota; 300 licenses doe or fawn valid on private land
	7	Oct. 1	Nov. 30	Limited quota; 300 licenses doe or fawn white-tailed deer
30		Oct. 15	Oct. 31	General license; any deer
	6	Nov. 1	Nov. 30	General license; any white-tailed deer
		Oct. 15	Nov. 30	Limited quota; 300 licenses doe or fawn valid on private land
31		Oct. 1	Oct. 10	General license; antlered deer
32		Oct. 15	Oct. 31	General license; any deer
		Nov. 1	Nov. 15	General license; any white-tailed deer
32,33	7	Oct. 15	Nov. 15	Limited quota; 150 licenses doe or fawn white-tailed deer
33		Oct. 15	Oct. 31	General license; any deer
	6	Nov. 1	Nov. 15	General license; any white-tailed deer
		Oct. 15	Nov. 15	Limited quota; 200 licenses doe or fawn
163		Oct. 15	Oct. 21	General license; antlered mule deer or any white-tailed deer
		Nov. 1	Nov. 15	General license; any white-tailed deer
169		Oct. 15	Oct. 21	General license; antlered mule deer or any white-tailed deer
		Nov. 1	Nov. 15	General license; any white-tailed deer
ARCHERY				
All Areas		Sept. 1	Sept. 30	General license; any white-tailed deer Limited quota; refer to Section 4 of this Chapter.

We recommend the following changes for the 2007 season: remove Area 10 from the pool of Type 6 licenses; close Areas 17 and 19 on October 20; increase the Areas 17, 18, 19, 20, 21 Type 6 licenses by 200; add an Areas 23,26 Type 3 licenses valid for any white-tailed deer during November; increase Areas 23,26, Type 6 licenses by 250; close Areas 23, 26, Type 6 and 7 licenses on December 16; increase Area 24, Type 6 license by 500; decrease Area 24, Type 7 license by 500; close Area 24 general - antlerless deer, Type 6 and Type 7 license on December 16; add an Areas 24,27 Type 3 license valid during November for any white-tailed deer; increase Area 27, Type 6 licenses by 100; increase Area 27, Type 7 license by 200; closed Area 27 general - antlerless deer, Type 6 and Type 7 license on December 16; in Area 29, eliminated the late November General License season; add an Area 29, Type 7 license valid during October and November; increase Area 32, Type 7 licenses by 100 and make them also valid in Area 33; and remove the 4-point restriction on mule deer in Areas 163 and 169.

MANAGEMENT EVALUATION

Current Post-season Objective: 8,000

2006 Post-season Population Estimate: ~ 11,650 (+145 % of objective)

2007 Post-season Population Estimate: ~ 8,200

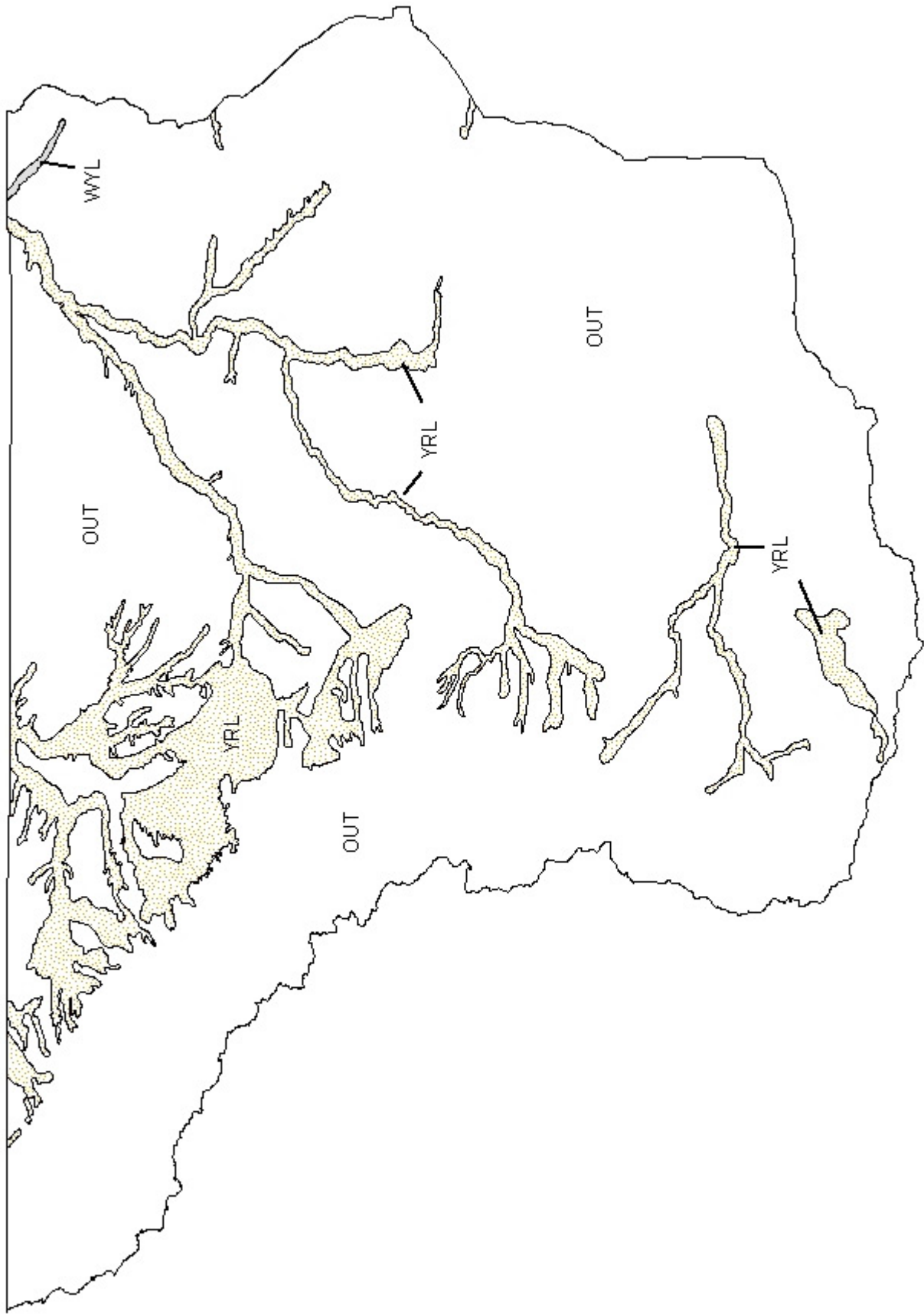
Current Population Trend: This population of white-tailed deer experienced explosive growth during the 1990's and early 2000's despite significant localized mortalities due to occasional outbreaks of epizootic hemorrhagic disease (EHD) and increase harvest. This herd remains significantly above the postseason population management objective of 8,000 deer. Under the proposed season strategy this population should decrease. The postseason population management objective is unattainable based on the size of the herd unit and restricted hunting opportunity. The POP-II population simulation model for this herd was updated in 2003 with recommended standardized model parameters. The model reasonably simulates the observed populations dynamics of this herd unit.

Proposed 2007 Harvest: The projected harvest for 2007 includes 2,000 bucks, 3,000 does, and 500 fawns for a total estimated harvest of 5,500 white-tailed deer. The proposed harvest would be the highest harvest ever recorded in this herd unit. Since the majority of white-tailed deer hunting occurs on private lands, hunting access, and thus harvest, is currently controlled primarily by landowners. Current and proposed harvest strategies are designed to encourage increased antlerless harvest. Hunters can purchase up to 4 doe or fawn licenses as well as an any white-tailed deer licenses. Antlerless seasons run up to 107 days in some hunt areas.

Management Challenges: Problems associated with the management of this herd include hunter access, urban development which limits safe firearm hunting opportunities, and artificial feeding of deer. Access for antlerless harvest is reasonable and generally available for hunters willing to ask permission. Access for antlerless harvest seems to be restricted by safe hunting opportunity or landowners with a desire to "protect" white-tailed deer.

There are high white-tailed deer populations in and around subdivisions. This is creating problems with dogs chasing deer, deer caught in fences, increased deer - vehicle collisions, and damage to ornamental shrubs and gardens. Harvest options in these areas are limited due to safety concerns, restriction on firearm discharge/hunting, and/or public desire to protect the deer. Current survey methods result in inconsistent data and the population objective is unrealistically low for the size of this herd unit.

We incorporated the area between North and South Piney Creeks into Hunt Area 24 starting with the 2006 season. This area had been excluded from a deer hunt area for over 50 years, allowing white-tailed deer populations to flourish in this area and acts as a reservoir to fill adjacent areas which are hunted. The 2006 resulted in some deer harvested with without any significant problems.



White-tailed Deer (WT303) - Powder River
HA 17, 19, 23-33, 163, 169
Revised 4/87