APPENDIX G

MONITORING AND EVALUATION

APPENDIX G
MONITORING

Resource	Component	Location	Technique	Unit of Measure	Frequency	Variation from RMP Warranting Management Concern
Range	Trend	I, M, C allotments as needed.	Nested frequency plot method, photos	Percent frequency of key species; percent ground cover.	3-5 yr. intervals or one grazing cyle for rotation systems. Minimum 3 years.	Change to downward trend.
	Utilization	I, M, C allotments as needed	Key forage plant method	Percent utilization of forage	annually	Utilization greater than 65% % on key species1/
	Actual Use	All allotments monitored for utilization and climate.	Actual grazing use reports submitted by livestock operators Livestock compliance checks.	AUMs	Annually	Consider with climate to help determine why utilization is at monitored level.
	Climate	All allotments monitored for utilization & actual use.	Nat. Oceanic Atmospheric Administration reports2/	Inches of precipitation & degrees F.	Monthly during growing season. Summarize annually.	Consider with actual use to help determine why utilization is at monitored level.
	Condition	All allotments	Range condition guide outlined in Nat. Range Handbook.	Precent composition of all plant species compared to expected potential plant community.	Whenever a significant change in vegetative composition has taken place.	A decline of one condition class.
Wildlife	Bald Eagle	7 nests	Occupancy and production	Number of active nests & young produced.	Annually	Any decrease in occupancy and 0.2 average decrease in young produced.
		Winter roosts	Winter flights	Number observed.	Annually	15% decrease or greater for two consecutive years. Loss of roost trees.
	Peregrine Falcon	S. Fork - Buck Spr.	Prey base transects.	Density of passerine birds.	Biannually	20% decrease in density.
	Gray Wolf	Medicine Lodge Patelzik Creek Ck. area	Big game winter range condition and availability of cover patches.	Extensive browse transects and cover mapping.	Annually	Any downward trend in big game winter range. Loss of cover throughout range.
	Grizzly Bear	Henry's Lake	Recovery Plan			
	Astragalus ceramicus opus	Table Butte, Twin Buttes, 9 Mi. Knoll	100 m. sq. plots Plant condition	Number of plants	Every 3rd yr.	50% decrease in numbers Plant condition downward
	Oenothera psammophila	St. Anthony Sand Dunes	Tagged pop.	Number of plants	3 years	30% decrease in numbers
	Idaho Sensitive Species	Throughout RA	Observe representative sites during key periods.	Occupied sites and population levels.	Annually	10% loss of occupied sites and numbers/site.
	Elk	Sands, Tex Ck. Medicine Lodge calving	Aerial surveys, forage/cover surveys.	Number of animals seen Relative %.	Initially when logging is proposed in an area.	20% decrease in 60/40 ratio for unit.
		Summer/Fall	Wallows, rub areas, forage/cover.	Number observed Cover mapping	Initially and ongoing with logging.	25% decrease in use areas and when ratio approaches 60/40.

1/ Percent utilization warranting management concern may be less than 65% in allotments without rotation systems and/or in allotments located in less productive, low precipitation areas.

2/ Portable weather stations and/or rain gauges as needed.

Resource	Component	Location	Technique	Unit of Measure	Frequency	Variation from RMP Warranting Management Concern
	Mule Deer	Summer Range	Census routes	Number of animals	4 times between 6/1-9/30	50% decrease.
			Habitat mapping	Acres of cover and distribution.	Ongoing by allotment.	35% decrease in cover.
			Springs/water.	Number available.	Ongoing	30% loss of distribution
	Pronghorn Antelope	Fawning	Aerial	Number counted	3 yr. cycle	25% decrease.
			Cover/habitat mapping.	Acres suitable.	Ongoing due to fires,projects	25% decrease.
		Summer/general	Springs/water	Number available	Ongoing	30% loss of distribution.
			Frequency	Frequency of key forbs		20% decrease in key species
		Winter	Extensive browse method	Browse age & form class	3 yr. cycle	20% increase in unsatisfactory browse.
			Aerial	Numbers counted	Annual	30% of stand in unsatisfactory condition.
	Moose	All streams in MA 1, Sand Cr. 3 Mi. Cr.,Rattlesnake Cr.	Ground & aerial photo transects line transects	Willow % cover	3 yr. cycle	If no improvement or continued downward trend.
		Teton,Game, Willow, Tex Cr.	Ground transect	Desirable shrub cover	3 yr. cycle	Any downward trend.
	Big Game	Winter Range	Extensive browse techniques.	Age & Form Class, utilization.	3 yr. cycle	
			Pellet transects.	Big game days/acre	Annually	25% decrease in #'s.
			Utilization of grasses in key elk ranges.	%	Annually	Over 40% utilization prior to winter.
	Sage Grouse	Selected leks	Observe leks during breeding season.	Number of males attending ground.	Annually	Population levels below 1981 levels.
		Wintering habitat	Photo,toe-point	% cover of shrubs and forbs	3 yr. cycle	20% decrease in key forbs and browse species.
		Brood rearing	Photo,toe-point	% cover of forbs and visual view of foliage height.	Annually	Any decrease in forb composition until areas are back into satisfactory condition.
		Nesting	Photo,toe-point	% cover of sagebrush and amount of nesting material available.	3 yr. cycle	10% variation from sage grouse guidelines.
	Sharptailed Grouse	Junipers, Second Sands, Willow Cr.	Livestock utilization	% use	Annually	Utilization above 40%.
			Toe-point	% cover	3 yr. cycle	Brush density over 30%.
			Photo	Visual record of foliage height	Annually	Average grass height less than 4 inches.
		Dancing Grounds (Selected)	Observe during breeding season.	Number birds counted	Annually	25% decrease from baseline day of 1982.
	Waterfowl	S. Fork,N.Fk., Main Snake	Nest search inventory	Number of nests	Annually	10% decrease from 1980 data.
			Photo goose rearing pastures	Visual	2 yr. cycle	When bare ground is visible in 5% of the picture.
	Pheasants/Huns	Identified tracts	Transects	Number of birds	Annually	20% decrease.
			Toe-point	% shrub cover	3 yr. cycle	35% or less cover.
	Old Growth Wildlife Species	Each MA with timber	Cover mapping	Acres-10% or 100 ac. minimum	Ongoing	12% remaining or less than 120 acres.

Resource	Component	Location	Technique	Unit of Measure	Frequency	Variation from RMP Warranting Management Concern
Water/ Water Quality	Sedimentation	Streams under intensive management plans	Ocular		3-5 years	Increase in sediment above existing. Lack of response to management.
	Riparian	Riparian areas under intensive management plans.	Ocular, aerial photos	cover	3-5 years	Decline in cover from existing

Resource	Component	Location	Technique	Unit of Measure	Frequency	Variation from RMP Warranting Management Concern
Recreation	Visitor Use	Planning Area	Observation, traffic counters and visitor questionnaires.	Visitor Days	Annually	25% increase from anticipated levels.
	ORV	Sand Dunes, Stinking Springs-Kelly Canyon area & Willow Creek.	Observation, photography & erosion transects.	% ground cover affected/increases in soil loss.	Annually	10% increase in erosion rates and 10% difference from ORV designations.
	Nature Trails	Cress Creek & N. Menan Butte	Observation, visitor registration, traffic counters.	Visitor Days	Annually	25% increase from anticipated levels.
Wilderness	Wilderness Characteristics	Sand Mountain and Snake River Islands WSAs	Observation, photographs		Biannually	Any changes not consistent with BLM's Interim Management Policy.
Cultural	Large caves/ rock shelters	Area wide	Patrols, photo records, site record form comparison.	% of site disturbed/ undisturbed	Annually, 3 year cycle.	Active vandalism, illegal site excavation, litter accumulation unplanned recreational or other use.
	Large, open tool & flake scatters	Area wide	Patrols, photos site form comparison.	% of site disturbed/ undisturbed	Annually, 3 year cycle.	Increased site disturbance, vegetation changes/damage, new vehicle or livestock trails, intensive recreational or other use.
	Prehistoric rock structures	Area wide	Patrols, photos & site form comparison.	Any observed rock removal or displacement	Annually or biannually, 3 or 5 yr. cycle.	Active, repeated rock removal or displacement, for any purpose or reason.
	Rock art sites	Area wide	Patrols, photos & site form comparison.	Any change from original recorded condition	Annually, 3 yr cycle.	Active, repeated rock art removal, attempted removal, or defacement.
	Small flakes & tool scatters	Area wide	Patrol, photo & site record form comparison.	% of site disturbed/ undisturbed.	As warranted, 3 or 5 year cycle.	Increased, active site disturbance, vegetation damage, new vehicle or livestock trails, increased unplanned site use.
	Historic sites & trails	Area wide	Patrol, photo & site record form comparison	Overall site condition percent of site intact or standing.	Annually, 3 yr cycle	Active vandalism or increased, observed natural deterioration, increased unplanned use of site or site vicinity.
Soils	Erosion	Loamy & sandy loam soils	Spirit level 1/2" rebar	Tons/acre/year	Selected allotments annually.	If soil erosion exceeds 5 tons per acre.
Fire	Trend	On prescribed & wildfire areas as needed.	Photos, nested frequency plot method.	% ground cover, % frequency	Annually until reestablished, then on 5 year cycle. Dependent on type of grazing system.	Downward trend. Nonresponse of desired species.

APPENDIX H

ECONOMICS

Table H-1
Gross Output Multipliers
BEA Economic Area 152 (1)

Industry	WRC Sector (2)		Multiplier
Agriculture	(03)	Meat Animals, misc. livestock	2.547
	(08)	Vegetables, sugar, crops	2.496
Manufacturing	(19)	Meat Products	2.677
	(24)	Fluid milk	2.526
	(27)	Frozen meats and vegetables	2.072
	(34)	Other food products	2.240
	(38)	Lumber and wood products	2.215
	(46)	Stone, clay and glass	2.083
Government	None		--
Retail Trade	(54)	Wholesale and retail trade	2.208
Services	(56)	Services	2.217
Wholesale Trade	(54)	Wholesale and retail trade	2.208
Agricultural Services	(12)	Agric., forestry, fish. serv.	2.382
Construction	(18)	General contractors-bldg.	1.948
Finance, Ins., Real Est.	(55)	Finance, Ins., Real Estate	1.704
Trans. and Pub. Util.	(53)	Transp., Comm., Pub. Utilities	1.901
Mining	(16)	Nonmetallic minerals	1.824
	(17)	Chemical and fertilizer	1.878

SOURCE: U.S. Water Resources Council 1977
(1) Bureau of Economic Analysis economic area that includes the RMP area.
(2) WRC Sectors-May include several Standard Industrial Classifications.

Table H-2
Earnings/Gross Output Ratios
Region 152

Industry	Calculation	Ratio
03	$\frac{1}{2.547}(.158) + (1 - \frac{1}{2.547})(.3008)$	0.2447
08	$\frac{1}{2.496}(.511) + (1 - \frac{1}{2.496})(.3008)$	0.3850
12	$\frac{1}{2.382}(.441) + (1 - \frac{1}{2.382})(.3008)$	0.3597
16	$\frac{1}{1.824}(.272) + (1 - \frac{1}{1.824})(.3008)$	0.2850
17	$\frac{1}{1.878}(.272) + (1 - \frac{1}{1.878})(.3008)$	0.2855
18	$\frac{1}{1.948}(.289) + (1 - \frac{1}{1.948})(.3008)$	0.2947
19	$\frac{1}{2.677}(.095) + (1 - \frac{1}{2.677})(.3008)$	0.2239
24	$\frac{1}{2.526}(.132) + (1 - \frac{1}{2.526})(.3008)$	0.2340
27	$\frac{1}{2.072}(.138) + (1 - \frac{1}{2.072})(.3008)$	0.2222
34	$\frac{1}{2.240}(.220) + (1 - \frac{1}{2.240})(.3008)$	0.2647
38	$\frac{1}{2.215}(.239) + (1 - \frac{1}{2.215})(.3008)$	0.2729
46	$\frac{1}{2.083}(.317) + (1 - \frac{1}{2.083})(.3008)$	0.3086
53	$\frac{1}{1.901}(.311) + (1 - \frac{1}{1.901})(.3008)$	0.3062
54	$\frac{1}{2.208}(.513) + (1 - \frac{1}{2.208})(.3008)$	0.3969
55	$\frac{1}{1.704}(.160) + (1 - \frac{1}{1.704})(.3008)$	0.2182
56	$\frac{1}{2.217}(.487) + (1 - \frac{1}{2.217})(.3008)$	0.3848

1. Calculation Routine described in U.S. Water Resources Council 1977, p. 16.

APPENDIX I

WILDLIFE HABITAT

WILDLIFE AUMS
By Management Area
Existing Situation

Management Area	Species	Allotment(s)	AUMs	Management Area	Species	Allotment(s)	AUMs
1	Antelope	Bench, Canyon	90	1	Antelope	Thunder Gulch,	72
		Edie Creek	90			Patelzik Creek	
		Dry Creek, Peterson	25			Crooked Creek	714
		Three Springs	331			Hot Springs	135
		Rattlesnake Pt.,Reno Pt.	214			Ellis, Gneiting, Wright	36
		Lake Hollow, Weber Cr.	108			Cole Canyon, Fritz Cr.	54
		Horse Creek Pasture,	78			Middle Creek	36
		Warm Creek Hills				Indian Cr.,E.Indian Cr.,	65
						Indian Cr. Butte	
1	Elk	Crooked Creek	513	1	Elk	Lake Hollow, Weber Cr.	70
		Cole Canyon, Fritz Cr.	201			Horse Creek Pasture,Warm	75
		Middle Creek	150			Creek Hills	
		Edie Creek	275			Indian Cr.,E. Indian Cr.,	150
		Bench, Canyon	15			Indian Creek Butte	
		Thunder Gulch, Patelzik	151			Dry Creek, Peterson	90
		Creek					
1	Moose	Crooked Creek	205	1	Moose	Ellis, Gneiting, Wright	84
		Lake Hollow, Weber Cr.	50			Cole Canyon, Fritz Cr.	24
		Horse Cr. Pasture, Warm	15			Middle Creek	61
		Creek Hills				Edie Creek	61
		Indian Cr.,E.Indian Cr.,	77			Bench, Canyon	9
		Indian Creek Butte				Thunder Gulch,Patelzik Cr	77
		Dry Creek, Peterson	175				
1	Mule Deer	Crooked Creek	150	1	Mule Deer	Three Springs	37
		Ellis, Gneiting, Wright	25			Lake Hollow, Weber Creek	115
		Cole Canyon, Fritz Cr.	27			Horse Creek Pasture,	27
		Middle Creek	74			Warm Creek Hills	
		Edie Creek	88			Indian Cr., E.Indian Cr.,	75
		Bench, Canyon	8			E. Indian Creek Butte	
		Thunder Gulch, Patelzik	75			Dry Creek, Peterson	39
		Creek					
1	Big Horn Sheep	Crooked Creek	4				
1	Mtn. Goat	Horse Creek Pasture,	2	1	Mtn. Goat	Middle Creek	1
		Warm Creek Hills					
2	Antelope	Twin Buttes, S. of	113	2	Antelope	Blue Stem, Berrett, South	14
		Highway 33				of Blue Stem.	
		Oram, Savage, W. Hamer,	84			Allot. IV, N. Mickelson	64
		Twin Buttes N. of Hwy 33				Mesa, Valley,Buck Springs	122
		Southwest, Cinder Butte,	92			Sulfer Lakes	26
		East Lake				Cedar Butte, North Butte	265
		Needle Butte	168			Camas Butte	258
		Dutch Flat	73			West Dubois	72
2	Mule Deer	Valley, Buck Springs	20	2	Mule Deer	Oram, Savage, W. Hamer,	20
						Twin Buttes N. of Hwy 33	
3	Antelope	Hump Ditch, Garner Lake,	10	3	Antelope	3 Mile, Spencer	3
		E. Beaver, Beaver Cr.				Rattlesnake,Camas Meadows	8
		Ching Cr.,Antelope Ridge	7			Antelope Valley	2
		Sheridan	24			Smith, Two Counties, 3	10
		18 Mile, Junction	3			Mile Butte	
		Blue Bunch	2			Elkhorn	8
		Jacoby Ranch	2			Dubois	17
		Airport, Railroad	68			Experiment Stn.,E.Dubois	20
		Morgans Crater	2			Big Grassy, Big L, Needle	108
		High Bridge, Obsidian	43			Grass, N. Well, West Well	
3	Elk	Spencer, 3 Mile	53	3	Elk	Rattlesnake,Camas Meadows	226
		Button Butte,Cottonwood	55			Sheridan Ridge,	150
		Ching Creek, Antelope,	75			Sheridan Allotment	
		Ridge, Antelope Valley					

Management Area	Species	Allotment(s)	AUMs	Management Area	Species	Allotment(s)	AUMs
3	Moose	Rattlesnake, Spencer, 3 Mile	96	3	Moose	Camas Meadows	80
		Ching Cr.,Antelope Ridge Antelope Valley	198			Button Butte, Cottonwood, Sheridan	45
		Morgans Crater, Radar Hill, 18 Mile	5			Beaver Cr.,E.Beaver Cr., Garden Lake, Hump Ditch, Hump Lake	103
		Dubois, E. Dubois, Experiment Station	8			Elkhorn, Lava E. Camas	15
						North Well, Needle Grass, Obsidian, Big Grassy, High Bridge, Sandy Butte	44
							108
3	Mule Deer	Antelope Ridge, Ching Cr., Antelope Valley	40	3	Mule Deer	Sheridan	35
		3 Mile	3			Smith, Two Counties	8
		Camas Meadow,Rattlesnake	24			Cottonwood, Button Butte	3
		Beaver Cr.,E. Beaver	5			Spencer, 3 Mile	10
		Experiment Stn,E.Dubois, Dubois	5			Hump Ditch, Hump Lake, Radar Hill,Morgans Crater	4
		Elkhorn, Lava E. Camas	21			Jacoby Ranch,High Bridge	7
		Obsidian, Big Grassy Ridge, Bitterbrush	69			Junction, 18 Mile, Blue Bunch, Lucky Strike, West Crater	2
		Jenkins Well, Big L, Sandy Butte, W. Well	18				
4	Elk	Donut Hole Area	14	4	Elk	Henrys Lake Area	42
		Monida Pass Area	60			Victor-Canyon Creek	806
4	Moose	Donut Hole Area	10	4	Moose	Henrys Lake Area	15
		Monida Pass Area	15			Victor-Canyon Creek Area	392
4	Antelope	Donut Hole Area	10	4	Antelope	Henrys Lake Area	15
		Monida Pass Area	72			Kettle Butte Area	71
4	Mule Deer	Henrys Lake Area	28	4	Mule Deer	Monida Pass Area	5
		Victor-Canyon Creek Area	50				
5 & 6 Sands HMP	Antelope	Chokecherry,Sandy Butte, Jenkins Well	54	5 & 6 Sands HMP	Antelope	Ice Caves, Checkerboard, Gas Caves, Dry Lakes, Split Butte	35
		5 Monuments, White Sands	27			Last Chance	13
		Spring Cr., Sander Cr., Pine Creek,	7			Riverside	6
		Shotgun Valley	40			Saurey, Nine Mile	37
		Gerber Field	6			S. Hawgood, Rigby, Grassy Ridge	30
		N. Hawgood, Horsebrush, Poleline	48			Park, House, Driveways, Sage Jct. N.	9
5	Elk	E.half S. Hawgood,Rigby, E.half Grassy, E. Grassy Ridge	860	5	Elk	W.half Grassy Ridge, Horsebrush, Poleline,Nine Mile S. of Poleline Rd.	1313
		Nine Mile N. of Poleline Rd.,Saurey, S.half West Ridge	942			Junipers Allot.around the Junipers	2459
		NW crnr. Junipers Allot. W.half Sandy Butte, High Bridge, Obsidian	130			S.half Chokecherry,SE crnr. Lava E. Camas, Big Sage, Grassy Road	1209
		Big Sage, Crooked Road, Gas Caves, 5 Monuments, Dry Lakes, Swensons Knoll, Checkerboard,Ice Caves, Red Road	1008			Elkhorn, lucky Strike, E.half Sandy Butte, Jenkins Well	208
						Pine Butte	31
						White Sands, Rudd Well	23
		Sage Junction	766			Box Canyon,W.Rattlesnake, Cool Canyon, Blue Cr., Pine Cr.,Fogg Butte, Crystal Butte, Split Butte, Snowshoe Butte, Pine Cr., Sand Cr.,Willow Cr.	868
		Butte Canal	1667				
		Sage Jct.N.,Park, House, Trailing area,N.Hawgood, Gerber Field,W. half S. Hawgood	88				
						Shotgun Valley, McCrea	113
		Sheridan Ridge,Green Canyon	56			Two Counties, Pine Butte, 3 Mile Butte	36

Management Area	Species	Allotment(s)	AUMs	Management Area	Species	Allotment(s)	AUMs
5	Moose	Egin Lakes	225	5	Moose	Junipers	150
		Rudd Well	50			9 Mile	22
		2nd Sands	56			White Sands	43
		W. Rattlesnake, Box Can.	68			Blue Creek	95
		Fogg Butte	13			Pine Cr.,Spring Cr.,Sand Cr.	20
		Shotgun & Associated BLM tracts.	60				
5	Mule Deer	Chokecherry	10	5	Mule Deer	Egin Lakes	167
		South Hawgood-Rigby	20			Juniper, Big Grassy	260
		Butte Canal,Menan Buttes	428			Meyers	76
		The Menan Buttes	25			Sage Junction	37
		Grassy Ridge, E. Grassy Ridge	13			Plano, Nine Mile	81
		Red Rd. to Gap in Sand (Unallocated land)	167			Unallocated lands from Egin Lakes to Red Road	20
		Fogg Butte,Crystal Butte	13			Gap in Sand to Sand Creek Rd. (Unallocated land)	111
		Pine Creek, Two County	30			Shotgun Valley & all associated tracts	25
		Sheridan Ridge, Antelope Valley	12			Blue Creek, Pine Creek	24
		Cool Creek	6			Box Canyon, W & E Willow Cr.,W.Rattlesnake,Cool Cr	134
		Pine Cr.,Spring Cr.,Sand Creek	155			White Sands, 5 Monuments	10
		F&G-BLM Land around Sand Creek HQ.	63			Juniper-West Ridge	758
7 INEL	Antelope	Twin Buttes (INEL)	99				
8	Elk	Tex-Willow Cr. Area	3656	8	Mule Deer	Tex-Willow Cr. Area	2307
8	Moose	Tex-Willow Cr. Area	243				
9	Elk	Snake River	0	9	Mule Deer	Snake River	0
	Moose	Snake River	0		Whitetail Deer	Snake River	0

WILDLIFE HABITAT
ACRES AND CONDITION

ALTERNATIVE A SUMMARY

Species	Season	BLM-Managed Habitat Satisfactory Acres	%	Unsatisfactory Acres	%	Total Acres	% Change in Acres*	Net Change Habitat Condition
Antelope	General	437,753	74%	153,665	26%	591,418		
	Winter	32,203	92%	2,942	8%	35,145		
	Fawning	46,326	78%	13,325	22%	59,651		
	Spring/Summer/Fall	53,941	81%	12,809	19%	66,750		
Sage Grouse	General	506,687	73%	189,632	27%	696,319		
	Strutting/Nesting	19,824	91%	1,980	9%	21,804		
	Winter	25,698	90%	2,867	10%	28,565		
	Brood rearing	13,377	60%	8,828	40%	22,205		
Elk	Calving	33,408	81%	7,952	19%	41,360		
	Summer	21,565	91%	2,015	9%	23,580		
	Spring/Fall	61,387	85%	10,450	15%	71,837		
Big Game	Winter	136,433	87%	19,701	13%	156,134		
Bald Eagle	Nesting	5,820	62%	3,500	38%	9,320		
Peregrine Falcon	Spring/Summer/Fall/For	8,987	90%	977	10%	9,964		
Big Horn Sheep	Winter/Spring	13,638	80%	3,409	20%	17,047		
Mtn. Goat	Winter/Spring	890	100%	0	0	890		
Grizzly Bear	Spring/Summer	5,872	53%	5,208	47%	11,080		
Other Upland Game	Yearlong	13,569	78%	3,745	22%	17,314		
Northern Rocky Mtn. Timber Wolf	Spring/Winter/Fall	28,346	52%	25,957	48%	54,303		
Forest Grouse	Yearlong	23,549	80%	5,772	20%	29,321		
Sharp-tailed Grouse	Yearlong	26,567	90%	3,043	10%	29,610		
Wild Turkey	Yearlong	3,872	90%	438	10%	4,310		
White-tailed Deer	Yearlong	4,210	93%	327	7%	4,537		

ALTERNATIVE B SUMMARY

Species	Season	BLM-Managed Habitat Satisfactory Acres	%	Unsatisfactory Acres	%	Total Acres	% Change in Acres*	Net Change Habitat Condition
Antelope	General	338,654	58%	242,519	42%	581,173	- 2%	- 16%
	Winter	21,127	66%	10,958	34%	32,085	- 9%	- 26%
	Fawning	32,372	56%	25,439	44%	57,811	- 3%	- 22%
Sage Grouse	General	413,301	60%	271,973	40%	685,274	- 2%	- 13%
	Strutting/Nest	12,919	60%	8,785	40%	21,704	0	- 31%
	Winter	18,129	68%	8,716	32%	26,845	- 6%	- 22%
	Brood rearing	8,934	50%	9,019	50%	17,953	- 19%	- 10%
Elk	Calving	26,884	65%	14,236	35%	41,120	- 1%	- 16%
	Spring/Fall	45,454	64%	25,583	36%	71,037	- 1%	- 21%
	Summer	17,808	78%	4,927	22%	22,735	- 4%	- 13%
Big Game	Winter	97,947	63%	56,801	37%	154,748	- 1%	- 24%
Bald Eagle	Nesting	4,843	52%	4,477	48%	9,320	0	- 10%
Peregrine Falcon	Foraging	7,316	73%	2,645	27%	9 961	0	- 17%
Big Horn Sheep	Winter/Spring	11,421	67%	5,626	33%	17,047	0	- 13%
Mtn. Goat	Winter/Spring	890	100%	0	0	890	0	0
Grizzly Bear	Spring/Summer	5,011	48%	5,434	52%	10,445	- 3%	- 5%

Species	Season	BLM-Managed Habitat Satisfactory Acres	%	Unsatisfactory Acres	%	Total Acres	% Change in Acres*	Net Change Habitat Condition
Other Upland Game	Yearlong	7,508	62%	4,690	38%	12,198	- 30%	- 16%
N.R.M.Timber Wolf	Fall/Winter/Spring	22,083	42%	31,060	58%	53,143	- 2%	- 10%
Forest Grouse	Yearlong	18,018	64%	9,933	36%	27,951	- 5%	- 16%
Sharp-tailed Grouse	Yearlong	17,675	60%	11,935	40%	29,610	0	- 30%
Wild Turkey	Yearlong	2,422	63%	1,423	37%	3,845	- 11%	- 27%
White-tailed Deer	Yearlong	2,891	71%	1,181	29%	4,072	- 10%	- 22%

ALTERNATIVE C SUMMARY

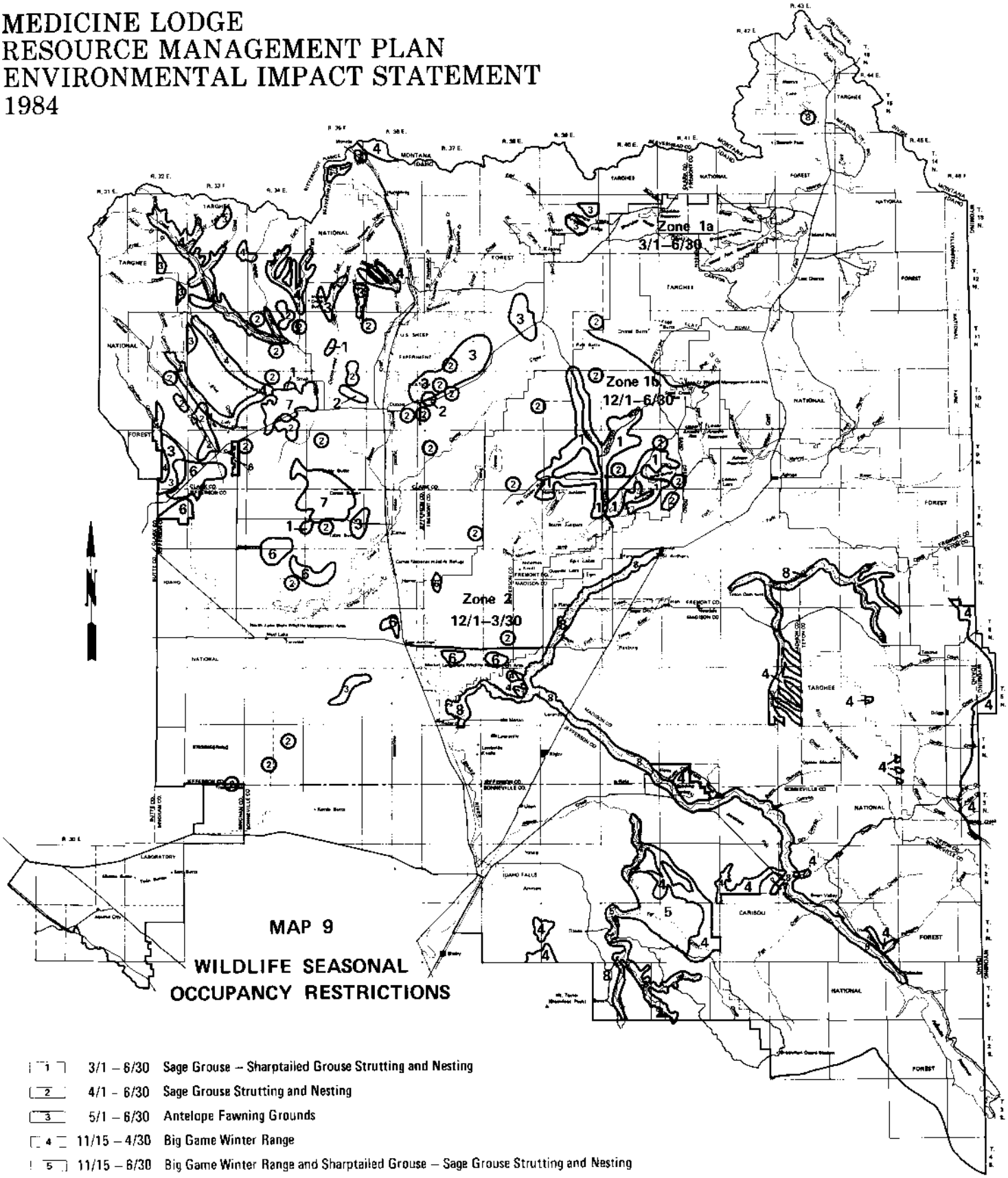
Species	Season	BLM-Managed Habitat Satisfactory Acres	%	Unsatisfactory Acres	%	Total Acres	% Change in Acres*	Net Change Habitat Condition
Antelope	General	417,444	71%	167,790	29%	585,234	- 1%	- 3%
	Fawning	45,127	77%	13,779	23%	58,906	- 1%	- 1%
	Winter	30,694	94%	1,936	6%	32,630	- 7%	+ 2%
Sage Grouse	General	494,461	72%	196,913	28%	691,374	- 1%	- 1%
	Strutting/Nesting	19,684	91%	1,980	9%	21,664	- 1%	0
	Winter	25,046	92%	2,211	8%	27,257	- 5%	+ 2%
	Brood Rearing	15,779	75%	5,186	25%	20,965	- 6%	+ 15%
Elk	Calving	32,780	79%	8,580	21%	41,360	0	- 2%
	Spring/Fall	60,262	85%	10,950	15%	71,212	- 1%	0
	Summer	20,940	91%	2,015	9%	22,955	- 3%	0
Big Game	Winter	140,917	91%	14,177	9%	155,094	- 1%	+ 4%
Bald Eagle	Nesting	6,437	69%	2,883	31%	9,320	0	+ 7%
Peregrine	Foraging	9,482	95%	482	5%	9,964	0	+ 5%
Bighorn Sheep	Winter/Spring	16,365	96%	682	4%	17,047	0	+ 16%
Mountain Goat	Winter/Spring	890	100%	0	0	890	0	0
Grizzly Bear	Spring/Summer	6,106	57%	4,639	43%	10,745	- 6%	+ 4%
Other Upland Game	Yearlong	1,280	78%	3,553	22%	16,354	- 6%	0
N.R.M. Timber Wolf	Fall/Winter/Spring	32,820	60%	21,483	40%	54,303	0	+ 8%
Forest Grouse	Yearlong	22,983	80%	5,638	20%	28,621	- 2%	0
Sharp-tailed Grouse	yearlong	26,567	90%	3,043	10%	29,610	0	0
Wild Turkey	Yearlong	3,872	90%	438	10%	4,310	0	0
White-tailed Deer	Yearlong	4,537	100%	0	0	4,537	0	+ 7%

ALTERNATIVE E SUMMARY

Species	Season	BLM-Managed Habitat Satisfactory Acres	%	Unsatisfactory Acres	%	Total Acres	% Change in Acres*	Net Change Habitat Condition
Antelope	General	478,846	81%	112,572	19%	591,418	0	+ 7%
	Fawning	47,587	80%	12,064	20%	59,651	0	+ 2%
	Winter	33,424	95%	1,721	5%	35,145	0	+ 3%

		BLM-Managed Habitat						Net Change
		Satisfactory		Unsatisfactory		Total	% Change	Habitat
Sage Grouse	General	544,483	78%	151,836	22%	696,319	0	+ 5%
	Strut/Nest	20,034	92%	1,690	8%	21,724	0	+ 1%
	Winter	26,330	92%	2,235	8%	28,565	0	+ 2%
	Brood Rearing	19,298	87%	2,907	13%	22,205	0	+ 27%
Elk	Calving	37,458	91%	3,902	9%	41,360	0	+ 10%
	Spring/Fall	64,595	90%	7,142	10%	71,737	− 1%	+ 5%
	Summer	21,562	91%	2,018	9%	23,580	0	0
Big Game	Winter	142,042	91%	13,532	9%	155,574	0	+ 4%
Bald Eagle	Nesting	6,437	69%	2,883	31%	9,320	0	+ 7%
Peregrine	Foraging	9,527	96%	437	4%	9,964	0	+ 6%
Bighorn Sheep	Winter/Spring	16,365	96%	682	4%	17,047	0	+ 16%
Mountain Goat	Winter/Spring	890	100%	0	0	890	0	0
Grizzly Bear	Spring/Summer	7,091	64%	3,989	36%	11,080	0	+ 11%
Other Upland Game	Yearlong	14,337	83%	2,977	17%	17,314	0	+ 5%
N.R.M. Timber Wolf	Fall/Winter/Spring	37,304	69%	16,999	31%	54,303	0	+ 17%
Forest Grouse	Yearlong	24,952	85%	4,369	15%	29,321	0	+ 5%
Sharp-tailed Grouse	Yearlong	26,567	90%	3,043	10%	29,610	0	0
Wild Turkey	Yearlong	3,872	90%	438	10%	4,310	0	0
White-tailed Deer	Yearlong	4,537	100%	0	0	4,537	0	+ 7%

MEDICINE LODGE RESOURCE MANAGEMENT PLAN ENVIRONMENTAL IMPACT STATEMENT 1984



MAP 9

WILDLIFE SEASONAL OCCUPANCY RESTRICTIONS

1	3/1 – 6/30	Sage Grouse – Sharptailed Grouse Strutting and Nesting
2	4/1 – 6/30	Sage Grouse Strutting and Nesting
3	5/1 – 6/30	Antelope Fawning Grounds
4	11/15 – 4/30	Big Game Winter Range
5	11/15 – 6/30	Big Game Winter Range and Sharptailed Grouse – Sage Grouse Strutting and Nesting
6	12/1 – 3/30	Antelope Winter Range
7	12/1 – 6/30	Antelope Winter Range – Sage Grouse Strutting and Nesting
8	NSO	Threatened and Endangered Species – Major Fisheries and Waterways
		Sands Habitat Management Plan (HMP) Boundary

0 6 12 18 24

Scale in Miles

U.S. GOVERNMENT PRINTING OFFICE: 1984—793-054/3501 REGION NO. 8