

DESCRIPTION, INVENTORY AND ANALYSIS OF ALLOTMENT

Class of stock Cattle & Horses Stocking (AUs) ^{14 Horses} 240 Cattle (AUMs) 752

Season of grazing (Dates) MAY 16 to SEPTEMBER 15

Character of topography LATERAL & TERMINAL MORaine - ROCKY & ROLLING

Table 1. Area of natural vegetation types and culturally treated areas grazed by livestock and by game

Vegetation types and culturally treated areas <u>1/</u>	Total area of type		Area grazed by livestock		Area grazed by game	
			At present	30 years from now <u>2/</u>	At present	30 years from now <u>2/</u>
(name)	(acres)	(per-cent)	(acres)	(acres)	(acres)	(acres)
4- SAGEBRUSH - GRASS	3918	82%	3918	3918	3918	3918
1- ACRYLON CRISTATUM - STIP	735	15%	735	735	735	735
1- ACRYLON SPICATUM - STIP	150	3%	150	150	150	150
Other						
Allotment Total	4803	100				

1/ List culturally treated areas under appropriate vegetation types.
2/ Under improved management.

Table 2. Composition, value, use and development of plant species in natural vegetation type or culturally treated area

Type or treated area (name) 1 - AGROPHYRON SPICATUM - Stipa lettermanii (Sprayed 1964)

Species	Amount in cover	Forage value				Utilization ave.	Start growth	Development Flowering	Seed ripe	Regrowth Leaves - twigs	3/ Flower stalks
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	2/ (percent)	Check one)				(Perc 't)	(date)	(date)	(date)	(date)	(date)
* AGROPHYRON spicatum	29	x				55	4/20	6/13	6/30	6/30	7/5
* Stipa lettermanii	12		x			50	4/20	6/20	7/25	6/30	7/10
Poa sp.	5		x			50	4/10	5/30	6/5	6/15	6/15
Poa secunda	10			x		50	4/10	6/5	6/25	6/20	6/30
Koeleria cristata	3				x	30	4/20	6/10	6/20	6/15	6/20
Carex filifolia	2				x	10	4/10	5/30	6/15	6/5	6/10
Total	60										
Forbs											
PHLOX HOODII	12										
ERIOGONUM sp.	6			x		15	5/10	6/15	6/30	6/10	6/15
LUPINUS sp.	1										
SEBUM sp.	7										
ANTENNARIA ROSEA	6										
Total	25%										
Shrubs and trees 1/											
ARTEMESIA tridentata	10				x	10	5/1	5/30	6/30	6/10	6/10
PERSHIA tridentata	5		x			20	5/15	6/15	7/10	7/5	7/5
CHRYSOTHAMNUS viscidiflorus	7										
SYMPHORICARPUS sp.	7										
Total	15%										
Grand Total	100										

- 1/ Including conifers
- 2/ For trees and shrubs include estimates only for species that can be changed or removed in a range improvement program.
- 3/ How late in spring can the species be grazed and still produce grazable leaves or twigs or seed-producing flower stalks?

* Key species

Table 2. Composition, value, use and development of plant species in natural vegetation type or culturally treated area

Type or treated area (name) 1- AGROPYRON CRISTATUM - STIP Type W-31.

Species	Amount in cover (percent)	Forage value				Utilization ave. (Per cent)	Start growth (date)	Development Flow-ering (date)	Seed ripe (date)	Regrowth Leaves -twigs (date)	Regrowth Flow stalks (date)
		Ex	Gd	Fr	Pr						
Grasses & Grass-like		(Check one)									
* AGROPYRON CRISTATUM	40	x				50	4/20	6/10	6/25	6/5	6/15
* AGROPYRON SPICATUM	3	x				55	4/20	6/13	6/30	6/30	7/5
Stipa lettermanii	9		x			50	4/20	6/20	7/1	6/30	7/5
SITANION hystrix	3			x		40	4/20	5/30-6/15	6/5-6/25	6/5	6/20
ORYZOPSIS hymenoides	T										
Total	55%										
Forbs											
PHLOX hoodii	10					-					
FRICCONUM sp.	4					x					
ANTENNARIA ROSEA	6					-					
Total	20%										
Shrubs and trees ^{1/}											
Artemisia tridentata	24					x	5/1	5/30	6/30	6/10	6/10
Chrysothamnus viscidiflorus	1					x					
heptodactylon pungens	T					-					
Total	25%										
Grand Total	100%										

1/ Including conifers

2/ For trees and shrubs include estimates only for species that can be changed or removed in a range improvement program.

3/ How late in spring can the species be grazed and still produce grazable leaves or twigs or seed-producing flower stalks?

* Key species

Table 2. Composition, value, use and development of plant species in natural vegetation type or culturally treated area

Type or treated area (name) 4- SAGEBRUSH - GRASS (All vegetative types except w-1 and w-31)

Species	Amount in cover	Forage value				Utilization ave.	Start growth	Development Flow-ering	Seed ripe	Regrowth Leaves -twigs	Flower stalk
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	2/ (percent)	x (check one)				(Perc 't)	(date)	(date)	(date)	(date)	(date)
* <i>Aeropyron spicatum</i>	6	x				60	4/20	6/13	6/25-6/30	6/30	7/5
<i>Aeropyron dasystachyum</i>	1		x			50	5/1	6/20	7/25	6/30	7/10
* <i>Stipa lettermanii</i>	14		x			55	4/20	6/20	7/1	6/30	7/5
<i>Poa sp.</i>	2			x		50	4/10	5/30	6/15	6/15	6/15
<i>Poa secunda</i>	6			x		30	4/10	6/15	6/25	6/20	6/30
<i>Koeleria cristata</i>	1				x	20	4/10	5/30	6/15	6/5	6/10
<i>Carex filifolia</i>	T				x	-				6/5	6/10
<i>Bromus tectorum</i>	T			x		40	5/1	6/5	6/20	6/5	6/10
<i>Oxyopsis hymenoides</i>	T					-					
Total	30%										
Forbs											
<i>PHLOX HOODII</i>	6				x	-	5/10	6/15	6/30	6/10	6/15
<i>Eriogonum sp.</i>	4			x		-					
<i>Antennaria rosea</i>	9				x	-					
<i>Astragalus sp.</i>	T				x	-					
<i>Aplopappos sp.</i>	T				x	-					
<i>Sedum sp.</i>	T				x	-					
<i>Lupinus sp.</i>	T				x	-					
Total	20%										
Shrubs and trees 1/											
<i>Artemisia tridentata</i>	42				x	10	5/1	5/30	6/30	6/10	6/10
<i>Purshia tridentata</i>	6		x			20	5/15	6/15	7/10	7/5	7/5
<i>Leptodactylon pungens</i>	T				x	-					
<i>Chrysothamnus viscidiflorus</i>	2				x	-					
<i>Artemisia frigida</i>	T				x	-					
<i>Symphoricarpos sp.</i>	T			x		10					
Total	50%										
Grand Total	100%										

- 1/ Including conifers
- 2/ For trees and shrubs include estimates only for species that can be changed or removed in a range improvement program.
- 3/ How late in spring can the species be grazed and still produce grazable leaves or twigs or seed-producing flower stalks?

* Key species

Table 4. Estimated utilization of available forage in natural vegetation types and culturally treated areas and condition of range

Vegetation type or treated area ^{1/}	Use of total tonnage of forage in type (percent)	Range condition				
		Vigor of forage species (L, M, H) ^{2/}	Ratio of good to poor forage species (per- cent) ^{3/}	Density of forage (percent of poten- tial)	Sheet Erosion	
					Depth (Inches)	Extent (Percent of ground area)
4- Sagebrush - Grass		a-m	1:4	50	2	90%
1- Agropyron cristatum		m	1:3	65	1 1/2	95
1- Agropyron spicatum		m-H	1:3	65	1 1/2	95
Allotment average	✓					

1/ List treated areas (reseeded, sprayed, etc.) under appropriate vegetation types.
 2/ L = low, M = moderate, H = high.
 3/ From Table 2. Excellent and good species = good; fair and poor species = poor.

What percent of the livestock forage on the range is used by game? 20%

What are the principal foraging game animals? Deer, Antelope

PROPOSED FORMULA - BOUSMAN REST-ROTATION MANAGEMENT PLAN

	1967	1968	1969	1970	1971	
SODA LAKE PASTURE	REST C	Rest A	Rest B	REST C	Rest A	5/16 - 6/30 7/1 - 8/15
CRESTED WHEATGRASS PASTURE	Rest A	REST B	Rest C	Rest A	Rest B	5/16 - 6/30 7/1 - 8/15
BOULDER LAKE PASTURE	Rest B	REST C	Rest A	Rest B	REST C	5/16 - 6/30 7/1 - 8/15