#### MOOSE CAMP CREEK REST ROTATION MANAGEMENT PLAN

Submitted to Mr. Hormay in August, 1965.

Subject: Follow up report summary

A. First Year

Although the fencing program was not complete in time to receive maximum benefits, the scheduled rest pasture received full rest and about 75% of the deferred pastures received part of a seasons deferment.

Vigor and forage production in the rest pasture increased markedly. Some regrowth occured in the early spring pastures.

Cattle conditions seemed improved over previous years.

B. Second Year

Due to poor moisture there has been <u>very little</u> new growth on pastures below 6,000 feet in elevation.

On the pastures above 6,000 feet growth is slow but progressing. Most noticeable is the growth in the rest pasture (6,200 to 7,000 ft.) The growth here is about 25 to 50% greater than in the other pastures above 6,000 feet.

Due to the droughthy conditions the users asked for and were allowed one week of use (from May 21 to May 28) in one of this years deferred use pastures. This was to allow one of the early spring pastures an extra week of growth before grazing.

Use may or may not be made on the deferred pasture depending on the conditions later this summer and fall.

## SUPPLEMENTAL DATA: MOOSE-CAMP CREEK COMMUNITY ALLOTMENT REST-ROTATION GRAZING SYSTEM

- A. Grazing System Optimum
  - 1. A rest-rotation is being initiated during the 1965 grazing season.

The grazing unit contains five rotational pastures, one of which will be rested each year. The system has been coordinated as much as possible with the U.S.F.S. rest-rotation plan for the Moose-Camp allotment on the Deerlodge National Forest. (See enclosed pasture and rotation plans).

- 2. Movement within the system will be based on proper use and the maturity of the key forage species, i. e.:
  - a. Agropyron spicatum
  - b. Festuca idahoensis

(See enclosure #3 for maturity dates)

- 3.\* Spring grazing will begin about May 21st. All livestock will be removed from the allotment about September 30th.
- 4. Sequence of treatment.

a.	Year	Pasture No. 2	Pasture No. 4	Pasture No. 1	Pasture No. 3	Pasture No.5
	1965	Rest	Early	Early	Late**	Late*
	1966	Late*	Rest	Early	Early	Late**
	1967	Late**	Late*	Rest	Early	Early
	1968	Early	Late**	Late*	Rest	Early
	1969	Early	Early	Late**	Late*	Rest

\*Late use, seed trampling. \*\*Late use, seedling establishment

Early use - beginning about May 21st Late Use - use beginning after seed maturity of key forage species

- b. Subsequent years may be a repeat of the above schedule. However, it is very likely a field inspection at the end of the first rotation cycle will indicate that a modification of the initial treatment is needed.
  - \*Note: About July 8th 949 cattle are moved from the BLM allotment to the Forest allotment.

- At the present time the users are hauling water to pasture No.

   This practice will continue as long as necessary. The BLM
   is planning to develop artificial watersheds on this pasture
   in the near future.
- B. Grazing System Modified
  - 1. Poor range condition is general throughout the allotment. To initiate a grazing system based on the maturity of the key species would require a large reduction in stocking.

The range users desired to help make the plan a success and chose to take a 20% reduction.

Rather than impose a larger reduction on the range users it was believed that a modified rotation plan along with our proposed sagebrush control project would still result in an upward trent in range condition.

- 2. The plan was therefore modified as follows:
  - a. Movement within the system, for at least the first rotation cycle, will be based on proper utilization. As proper utilization is reached in the early use pastures the livestock will be moved into the late use pastures.
  - b. All livestock will be removed from the allotment at the time proper utilization is reached on the late use pastures or by September 30th, whichever is first.
  - c. No use will be made on the rest pasture.
- C. Additional Information
  - 1. Fencing. Fence lines were located giving consideration to topography, vegetation, and livestock grazing habits.
  - 2. Sequence of rest and rotation.
    - a. Pasture No. 2 was rested first as it contained a large percent of spray area. It also had the best potential for response to treatment.
    - b. Pasture No. 4 was rested next for the same reason.
    - c. Pasture No. 1 was rested next as it was poor in condition and also required water hauling.
    - d. Pasture No. 3 was rested next as it was also in a poor condition.
    - e. Pasture No. 5 was left until last as it started the cycle in the best condition and could stand the increase in grazing pressure.

3. Estimated grazing capacity at end of program

Pasture	No.	1	-	990	AUMs
Pasture	No.	2	-	1,070	AUMs
Pasture				875	AUMs
Pasture	No.	4	-	950	AUMs
Pasture	No.	5	-	1,020	AUMs

4. Grazing capacities were taken from 1952 Missouri River Basin Studies. Since part of the area was planned for rehabilitation no resurvey was conducted. 14

5. Studies.

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1. Table

- a. Trend photo plots  $(2^{1} \times 2^{1} \text{ frame})$  will be located in key areas throughout the allotment.
- b. Production and utilization studies will be conducted on each pasture each year.
- c. Actual use will be recorded each year and made part of the allotment records.

# RANGE INVENTORY, ANALYSIS, AND MANAGEMENT PLAN

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Allotment Moose-Camp Creek Common	Whit Rochester
District Dillon	State Montana
Name of Permittee Moose-Camp Creek S	Stock Association members
Field Examination (Date) Summer 1964	<b>+</b>
Personnel: <u>Name</u>	<u>Position</u>
Oscar E. Anderson	Range Conservationist
Henry J. Bauman	Range Technician
Kenneth R. Kuhlman	Range Conservationist

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

	Amount	-		rage		Utili-		Dev	elopme	ntRegro	wth 3/
Species	in cover	Ex.		lue. Fr	Pr			L TOM-	2660	Leaves -twigs	L TOME
Grasses & Grass-like Stco	<b>2/</b> (percent) 15		hici	c one	)	(Peac 't 60		(data)			<b>(date)</b> 6/10
Bogr	42			x		40	6/10	Juły	8/15	8/5	7/15
Kocr	10		х	-		50	5/1	June	7/20	6/20	6/10
Agsp	10	k .				75	4/ <b>2</b> 0	June	8/10	8/15	7/10
Cael Pose <b>Tote</b> l	5 5 87		х.) Х.)	x		50 40	4/20 4/20		7/20 6/30	7/30 6/30	5/20 6/5
Porbs											
ANNU	6			<b>X</b>		20					-
Total	. 6			X		20					
Shrubs and trees 1/ Artr / Arfr /						10 0-5	•				-
Chna 🖌 Gusaj 🖌 Chvi	7				X	0 0 0	5/1	July	8/15		
Total Grand Total											

1/ Including conifers

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

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

# DESCRIPTION, INVENTORY AND ANALYSIS OF ALLOTMENT Class of stock <u>Cattle</u>, horses Stocking (AUs) <u>1,658</u> (AUMs) <u>3,297</u> Season of grazing (Dates) <u>May 21</u> to <u>September 30</u> Character of topography Foothills and mountainous

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

Vegetation types and	Total	ares	Area gra by lives		Area gr by game	azed
culturally treated areas 1/	of typ		At present	30 years from now 2/	At present	30 years from now 2/
(name)	(acres)	(per- cent)	(acres)	(acres)	(acres)	acres)
7 T Timber	2.345	9	230	230	780	780
*4 Sagebrush	16,814	62	11.896	14.396	1.800	1.700
l Grass (Area 1)	922	3	922	922		<u> </u>
l Grass (Area 2)	1,840	7	1.100	1.840	180	180
5 Mountain shrub	5,250	19	2,625	5,000	5.250	5.250
8,115 acres treated by aeri	al spray	. Carı	ving capa	city est	timated t	improv
from 7.3 A/AUM to 4.0 A/AUM						
<b></b>						
Other						1.
Allotment Total 1/ List culturally treated	27,171	1000	16,773	22,388	8,010	7.910

 $\frac{2}{2}$  / Under improved management.

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

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Type or treated area (name) \_\_\_\_\_ Grass (2)

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3/ How late in spring can the species be grazed and still produce grazable leaves or twigs or seed-producing flower stalks? Table 2. Composition, value, use and development of plant species in natural vegetation type or culturally treated area

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Pose	15			x		35	4/20	June	6/30	6/20	6/5
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Agsp	20	x				75	4/20	June	8/10	8/15	7/10
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Type or treated area (name) \_\_\_\_\_4 - Sagebrush

1/ Including conifers

 $\frac{2}{2}$  For trees and shrubs include estimates only for species that can be changed or removed in a range improvement program.

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

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

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

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

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

Vegetation type or treated areal/	Use of total tonnage of forage in type	Vigor of forage species	Ratio of good to poor forage	Density of forage	4	eet sion
	(percent)	_	species (per- cent) <u>3</u> /	(percent of poten- tial)	Depth (Inches)	Extent (Percent of groun area)
7 T Timber	-	-	-	-	-	-
4 Sagebrush	60	x	40-60	33	2	80
l Grass (1)	80	x	25-75	50	1	25
l Grass (2)	45	M	45-55	75	Less 1	25
5 Mountain Shrub	50	H	25-75	85	Less 1	10
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lotment average	59 🗸		34-66	61	1	35
List treated areas (r L = low, M = moderate From Table 2 Excelle hat percent of the lives	e, H = high. ent and good	species	= good; fa	ir and poor	÷	

		-	Artificial	reseeding	
Vegetation type		Capacity	Capacity 30 due to	yrs. hence	Effect of cultural
to be treated	Area	at present	Grazing management	Cultural treatment	treatment (6) minus (4
(name)	Acres	Ac/AUM AUMs (1) (2)	Ac/AUM AUMs (3) (4)	Ac/AUM AUMs (5) (6)	
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Total			Į		

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# Table 6. Effect of planned cultural treatments on grazing capacity

Spraying or other treatment

								_	
Grass (1)	922	6.5	142	4.5	205			4	
Grass (2)	1,840	5.2	354	4.5	408				
Sagebrush	8,115	7.3	1,112			4.0	2,029		<b>2</b> 89
Sagebrush	8,699	7.3	1,192	5.0	1,740			}	
Mountain shrub	5,250	17.9	293	10.0	525				
7 T Timber	2,345	0	-		-	-	-		
							``		
									1 *
Total	27,171		3,093		2,878		2,029		

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



ROTATION PLAN MODSE-CAMP CREEK COMMUNITY ALLOTMENT

KRK 4-1-65



# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ATTACHMENT 2



ROTATION PLAN HOOSE-CAMP CREEK COMMUNITY ALLOTMENT

KRK 4-1-65

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT





- Jackrabbit 1.
- Maloney-Klondike 2.
- King-Queen 3.
- 4. Wickeyup
- Soap Gulch 5.

Initial turnout

Rest pasture



ROTATION PLAN HOOSE-CAMP CREEK COMMUNITY ALLOTHENT

KRK 4-1-65

Proper use will be determined by a visual estimate of grazing use in the allotment using the following guide:

	Guide to Proper Range Use	
	Description	
Unused	No. Livestock use	

Slight	Practically undisturbed. Only choice areas and choice forage grezed.					
Moderate	Most of the range is grazed. Little or no use of poor forage, Little trailing to grazing					
Full	All fully accessible areas are grazed. The major sites have key forage species properly utilized.					
Close	All accessible range plainly shows use and major sections are closely cropped. The range has a "swept-clean" look.					
Severe	Key forage species almost completely used. Low-value forage carrying grazing load. Trampling damage is widespread in accessible areas					
Extreme	Range appears stripped of vegetation. Key torage species are weak from continued grazing of regrowth. Poor quality forage closely grazed. Livestock trail great distances for forage.					

Utilization will be estimated for each unit on the basis of the available and accessible forage within the boundaries of the unit. Key forage species and proper utilization of them is specified as follows:

Key Forage Species:

Bluebunch wheatgrass Idaho fescue

Note: This guide edepted from the Soil Conservation Service guide to proper use.

Meximum Range use under the three (3) pasture rest rotation system:

1, Early use pasture - Full or Close

- 2. Rest No use
- 3. Late use pasture Moderate or full

Maximum Range use under the five (5) pasture rest rotation system:

- 1. Early use pasture Full or Close use
- 2. Rest No use
- 3. Seed trampling pasture Moderate use
- 4. Seedling establishment pasture Muderate use
- 5. Nid-seeson use pesture Moderate use

ATTACIMENT 3

# AMENDMENT

### Moose-Camp Creek Allotment Agreement

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### II. Grazing Schedule

11.11

The grazing schedule is amended to the following:

te state sta	Pasture	Pasture	Pasture	Pasture	Pasture
Year	No. 1	No. 2	No. 3	No. 4	<u>No.5</u>
1966	Late use	Late use	Early use	Rest	Early use
1967	Rest	Early use	Late use	Late use	Early use
1968	Late use	Early use	Rest	Early use	Late use
1969	Early use	Late use	Late use	Early use	Rest
1970	Early use	Rest	Early use	Late use	Late use

Early use - Use starting May 21

Late use - Use after proper use is reached on the early use pasture.

If at all possible, try to stay in the early use pasture until it is time to turn on the Forest allotment, July 1st to July 8th. Then, the remainder of the livestock could go to one of the late use pastures. This would leave the other late use pasture for use if necessary after August 15th.

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ATTACHMENT 2



1966

\* one week of turnont use was made on this postare to allow aweek of extra growth In Pasture 15 (See Marative)

BP HB HL Redfern Unit LC

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FOREST SERVICE ALLOTMENT BP = Burton Park HB = Humbug HL = Highland LC = Little Camp

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- KQ = King-Queen
- 8 = Beef
- BLM ALLOTMENT
- Jackrabbit 1.
- 2. Maloney-Klondike King-Queen
- 3. 4. Wickeyup
- Soap Gulch 5.



Rest pasture

1967

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ROTATION PLAN MODSE-CAMP CREEK COMMUNITY ALLOTMENT

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ATTACHMENT 2



6-12.

FOREST SERVICE ALLOTMENT BP = Burton Park HB = Humbug HL = Highland LC = Little Camp

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- KQ = King-Queen
- 8 = Beef

## BLM ALLOTMENT

- 1. Jackrabbit
- Maloney-Klondike 2.

Initial turnout

Rest pasture

- 3. King-Queen
- 4. Wickeyup
- 5. Soap Gulch



ROTATION PLAN MOOSE-CAMP CREEK COMMUNITY ALLOTMENT

min pertos

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KERO

0833

IN REPLY REFER TO:

XERO

Moose Comp Cieck Allotment Sept 16 1966 Dillon District

Community allutment 6 or 7 permittee Tom Conner, Glen Chairmon, Secretory Livestock GAle Con calves some yearings Vegetation Dominantly buncheross types Rough to pography but easily traversed by cattle

Formula 5 transmont In use B Vigor Sec. 1 C Kigor Scedings  $\mathcal D$ Vigor Smallings E

Suggested ngir V/E Vigor Viger Mags

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v by ALH aster looking at allottment







BLM- Moose Comp Geek Community Alterant Dillos Montong 1968

