

State: Utah

April 4, 1967

District: Vernal

Allotment Name: Donkey Flat = *Diamond Mt*

STATUS OF REST-ROTATION GRAZING ALLOTMENTS

Supplemental information on each rest-rotation allotment:

1. Is the rest-rotation system in operation? No.
2. Date of start of first grazing season: 5-1-67
3. Is the form of management in effect or to be applied the same as the one reviewed or suggested by Mr. Hormay? Yes

In cases where rest-rotation grazing has been in effect for one year or more, please comment briefly on the prospects, merits or deficiencies of the system. It is a little too early to fully judge the system, but your comments will be helpful in pointing up future grazing training programs.

For administrative reasons, the allotment name and pasture names have been changed as follows:

Old Names

New Names

Diamond Mountain Allotment
Pasture No. 1
Pasture No. 2
Pasture No. 3

Donkey Flat Allotment
Little Creek Pasture
Red Fleet Pasture
Pothole Pasture

KEY SPECIES LIST

<u>Vegetative Type</u>	<u>Key Species</u>
1 - Agcr	Agcr, Agsm
2 - Agcr	Agcr, Atca
3 - Agcr, Artr	Agcr, Agsm
20 - JUNI, Artr	Orhy, Arno
21 - JUNI, Artr	Cemo, Arno
22 - Artr, Hija	Hija, Agin
23 - Artr, Atco ¹	Atco ¹ , Hija, Orhy
24 - Artr, Hija	Hija, Agsp
27 - SALI, Artr	POA spp.
74 - Agcr	Agcr

DESCRIPTION, INVENTORY AND ANALYSIS OF ALLOTMENT

Class of stock cattle Stocking (AUs) 200 (AUMs) 400
 and
 Season of grazing (Dates) 5-1 to 5-31 ~~xxxx~~ 12-1 to 12-31
 Character of topography 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)
1 - Agcr	2000	35	2000	2000	2000	2000
2 - Agcr	400	7	400	400	400	400
3 - Agcr, Artr	400	7	400	400	400	400
20 - JUNI, Artr	410	7	410	410	410	410
21 - JUNI, Artr	1072	18	800	800	1072	1072
22 - Artr, Hija	170	3	140	140	170	170
23 - Artr, Atco ¹	386	7	386	386	386	386
24 - Artr, Grsp	149	3	110	110	149	149
27 - SALL, Artr	173	3	40	40	173	173
74 - Agcr	570	10	570	570	570	570
	<u>5730</u>					
Other						

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

Type or treated area (name) 1 - Ager

Species	Amount in cover	Forage value				Utili- zation ave.	Start growth	Flow- ering	Development Seed ripe	Regrowth Leaves -twigs	3/ Flower stalks
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	<u>2/</u> (percent)	Check one)				(Perc 't)	(date)	(date)	(date)	(date)	(date)
Agropyron cristatum	68		x			60	4-1	5-25	7-15	6-15	6-5
Oryzopsis hymenoides	2	x				70	4-20	6-10	9-1	7-5	6-25
Agropyron Smithii	5		x			60	4-5	5-31	8-1	7-1	6-20
Bromus tectorum	3				x	25	4-1	4-15	6-1	5-25	5-15
Hilaria Jamesii	<u>2</u>		x			50	4-25	6-15	8-15	7-5	6-25
Total	80										
Forbs											
Misc. Forbs	<u>10</u>				x	10	4-1	5-1	6-15	-	-
Total	10										
Shrubs and trees <u>1/</u>											
Atriplex canescens	2		x			50	4-1	8-1	10-15	5-10	5-1
Cercocarpus Montanus	1		x			50	5-1	6-1	7-10	5-10	5-1
Artemisia tridentata	4				x	25	4-1	8-1	10-15	5-10	5-1
Artemisia nova	1		x			50	4-1	8-1	10-15	5-10	5-1
Chrysothamnus nauseosus	<u>2</u>			x		40	4-1	8-1	10-1	5-10	5-1
Total	<u>10</u>										
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?

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

Type or treated area (name) 2 - Agcr

Species	Amount in cover <u>2/</u> (percent)	Forage value (Check one)				Utili- zation ave. (Perc't)	Start growth (date)	Flow- ering (date)	Development Seed ripe (date)	Regrowth Leaves -twigs (date)	3/ Flower stalks (date)
		Ex	Gd	Fr	Pr						
Grasses & Grass-like											
Agropyron cristatum	74		x			60	4-1	5-25	7-15	6-15	6-5
Orhyzopsis hymenoides	2	x				70	4-20	6-10	9-1	7-5	6-25
Bromus tectorum	<u>4</u>				x	25	4-1	4-15	6-1	5-25	5-15
Total	80										
Forbs											
Misc. Forbs	<u>15</u>				x	10	4-1	5-1	6-15	-	-
Total	15										
Shrubs and trees <u>1/</u>											
Atriplex canescens	3		x			50	4-1	8-1	10-15	5-10	5-1
Artemisia tridentata	<u>2</u>				x	25	4-1	8-1	10-15	5-10	5-1
Total	5										
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?

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

Type or treated area (name) 3 - Agr, Artr

Species	Amount in cover	Forage value				Utili- zation ave.	Start growth	Develop- ment Flow- ering	Seed ripe	Regrowth Leaves -twigs	Flower stalks
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	<u>2/</u> (percent)	(check one)				(Perc't)	(date)	(date)	(date)	(date)	(date)
Agropyron cristatum	40		x			60	4-1	5-25	7-15	6-15	6-5
Oryzopsis hymenoides	3	x				70	4-20	6-10	9-1	7-5	6-25
Bromus tectorum	4				x	25	4-1	4-15	6-1	5-25	5-15
Agropyron Smithii	20		x			60	4-5	5-31	8-1	7-1	6-20
Hilaria Jamesii	5		x			50	4-25	6-15	8-15	7-5	6-25
Total	72										
Forbs											
Misc. Forbs	<u>10</u>										
Total	10										
Shrubs and trees <u>1/</u>											
Atriplex canescens	3		x			50	4-1	8-1	10-15	5-10	5-1
Artemisia tridentata	13				x	25	4-1	8-1	10-15	5-10	5-1
Chrysothamnus spp.	2					40	4-1	8-1	10-1	5-10	5-1
Total	<u>18</u>										
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?

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

Type or treated area (name) 20 - JUNI, Artr

Species	Amount in cover	Forage value				Utili- zation ave.	Start growth	Development			Regrowth 3/ Flower stalks
		Ex	Gd	Fr	Pr			Flow- ering	Seed ripe	Leaves -twigs	
	<u>2/</u> (percent)	(check one)				(Per' t)	(date)	(date)	(date)	(date)	(date)
Grasses & Grass-like											
Agropyron spicatum	7	x				60	4-15	5-31	8-1	7-1	6-20
Stipa comata	2		x			50	4-15	5-31	8-15	6-25	6-15
Oryzopsis hymenoides	10	x				70	4-20	6-10	9-1	7-5	6-25
Bromus tectorum	2				x	25	4-1	4-15	6-1	5-25	5-15
Sitanian hystrix	3			x		45	4-10	5-15	8-15	7-5	6-25
Hilaria Jamesii	3		x			50	4-25	6-15	8-15	7-5	6-25
Total	27										
Forbs											
Misc. Forbs	10				x	10	4-1	5-1	6-15	-	-
Total	10										
Shrubs and trees <u>1/</u>											
Artemisia tridentata	18				x	25	4-1	8-1	10-15	5-10	5-1
Juniperus osteosperma	30				x	0	-	-	-	-	-
Atriplex confertifolia	1			x		15	4-1	8-1	10-15	5-10	5-1
Artemisia nova	9		x			50	4-1	8-1	10-15	5-10	5-1
Grayia spinosa	1				x	15	3-20	6-1	7-15	4-25	4-15
Cercocarpus Montanus	1		x			50	5-1	6-1	7-10	5-25	5-15
Chrysothamnus spp.	1	XXXXX		x		40	4-1	8-1	10-1	5-10	5-1
Ephedra spp.	2	XXXXXXXXXXXXX	x			60	4-1	7-1	8-15	4-25	4-15

1/ Including conifers 63

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?

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

Type or treated area (name) 21 - JUNI, Artr

Species	Amount in cover	Forage value				Utili- zation ave.	Start growth	Flow- ering	Development Seed ripe	Regrowth Leaves -twigs	3/ Flower stalks
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	<u>2/</u> (percent)	Check one)				Perc 't	(date)	(date)	(date)	(date)	(date)
Oryzopsis hymenoides	2	x				70	4-20	6-10	9-1	7-5	6-25
Agropyron spicatum	2	x				60	4-5	5-31	8-1	7-1	6-20
Bromus tectorum	4				x	25	4-1	4-15	6-1	5-25	5-15
Stipa comata	2		x			50	4-15	5-31	8-15	6-25	6-15
Hilaria Jamesii	4		x			50	4-25	6-15	8-15	7-5	6-25
Agropyron Smithii	1		x			60	4-5	5-31	8-1	7-1	6-20
	<u>15</u>										
Total											
Forbs											
Misc. Forbs	<u>10</u>				x	10	4-1	5-1	6-15	-	-
Total	10										
Shrubs and trees <u>1/</u>											
Juniperus osteosperma	23				x	0	-	-	-	-	-
Artemisia tridentata	15				x	25	4-1	8-1	10-15	5-10	5-1
Cercocarpus Montanus	18		x			50	5-1	6-1	7-10	5-25	5-15
Artemisia nova	14		x			50	4-1	8-1	10-15	5-10	5-1
Ephedra spp.	2		x			60	4-1	7-1	8-15	4-25	4-15
Amelanchier alnifolia	1		x			50	5-1	6-1	7-10	5-25	5-15
Chrysothamnus	XXXX 1			x		40	4-1	8-1	10-1	5-10	5-1
Grayia spinosa	XXXXXXXXXX 1				x	15	3-20	6-1	7-15	4-25	4-15
	<u>75</u>										

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?

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

Type or treated area (name) 22 - Artr, Hija

Species	Amount in cover	Forage value				Utili- zation ave.	Start growth	Flow- ering	Development Seed ripe	Regrowth Leaves -twigs	3/ Flower stalks
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	(percent)	(check one)				(Per' t)	(date)	(date)	(date)	(date)	(date)
Hilaria Jamesii	10		x			50	4-25	6-15	8-15	7-5	6-25
Agropyron spicatum	1	x				60	4-5	5-31	8-1	7-1	6-20
Sitanian hystrix	2			x		45	4-10	5-15	8-15	7-5	6-25
Agropyron inerme	4	x				60	4-5	5-31	8-1	7-1	6-20
Stipa comata	2		x			50	4-15	5-31	8-15	6-25	6-15
Oryzopsis hymenoides	1	x				70	4-20	6-10	9-1	7-5	6-25
Total	20										
Forbs											
Misc. Forbs	8				x	10	4-1	5-1	6-15	-	-
Salsola kali	2				x	10	4-1	5-1	6-15	-	-
Total	10										
Shrubs and trees <u>1/</u>											
Artemisia tridentata	60				x	25	4-1	8-1	10-15	5-10	5-1
Sarcobatus vermiculatus	8				x	5	4-1	8-1	10-15	5-10	5-1
Chrysothamnus	1			x		40	4-1	8-1	10-1	5-10	5-1
Juniperus osteosperma	1				x	0	-	-	-	-	-
Total	70										
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?

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

Type or treated area (name) 23 - Artr, Atco

Species	Amount in cover	Forage value				Utilization ave.	Start growth (date)	Development			Regrowth 3/ Leaves Flower stalks (date)
		Ex	Gd	Fr	Pr			Flow-ering (date)	Seed ripe (date)	Leaves (date)	
Grasses & Grass-like	<u>2/</u> (percent)		<u>(check one)</u>			(Per' t)	(date)	(date)	(date)	(date)	(date)
Stipa comata	1		x			50	4-15	5-31	8-15	6-25	6-15
Agropyron spicatum	2	x				60	4-5	5-31	8-1	7-1	6-20
Oryzopsis hymenoides	3	x				70	4-20	6-10	9-1	7-5	6-25
Hilaria Jamesii	5		x			50	4-25	6-15	8-15	7-5	6-25
Sitanian hystrix	1			x		45	4-10	5-15	8-15	7-5	6-25
Bromus tectorum	2				x	25	4-1	4-15	6-1	5-25	5-15
	<u>14</u>										
Total											
Forbs											
Misc. Forbs	10				x	10	4-1	5-1	6-15	-	-
Opuntia	1				x	0	-	-	-	-	-
Eriogonum spp.	1					0	-	-	-	-	-
	<u>1</u>										
Total	12										
Shrubs and trees ^{1/}											
Atriplex confertifolia	29		x			15	4-1	8-1	10-15	5-10	5-1
Tetradymia spinescens	1				x	0	4-1	8-1	10-15	5-10	5-1
Juniperus osteosperma	9				x	0	-	-	-	-	-
Artemisia tridentata	30				x	25	4-1	8-1	10-15	5-10	5-1
Grayia spinosa	1				x	15	3-20	6-1	7-15	4-25	4-15
Chrysothamnus spp.	1			x		40	4-1	8-1	10-1	5-10	5-1
Amelanchier alnifolia	1	x				50	5-1	6-1	7-10	5-25	5-15
Sarcobatus vermiculatus	2				x	5	4-1	8-1	10-15	5-10	5-15
XXXXXX Total	<u>74</u>										

^{1/} Including conifers Grand Total 100

^{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?

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

Type or treated area (name) 24 - Artr, Hija

Species	Amount in cover	Forage value				Utili- zation ave.	Start growth	Development			Regrowth 3/ Flower stalks
		Ex	Gd	Fr	Pr			Flow- ering	Seed ripe	Leaves -twigs	
	^{2/} (percent)	(check one)				(Per' t)	(date)	(date)	(date)	(date)	(date)
Grasses & Grass-like											
Sitanion hystrix	3			x		45	4-10	5-15	8-15	7-5	6-25
Bromus tectorum	2				x	25	4-1	4-15	6-1	5-25	5-15
Hilaria jamesii	5		x			50	4-25	6-15	8-15	7-5	6-25
Agropyron spicatum	<u>2</u>	x				60	4-5	5-31	8-1	7-1	6-20
Total	12										
Forbs											
Misc. Forbs	<u>8</u> 8				x	10	4-1	5-1	6-15	-	-
Total											
Shrubs and trees ^{1/}											
Artemisia tridentata	69				x	25	4-1	8-1	10-15	5-10	5-1
Chrysothamnus spp.	2			x		40	4-1	8-1	10-1	5-10	5-1
Grayia spinosa	4				x	15	3-20	6-1	7-15	4-25	4-15
Sarcobatus vermiculatus	2				x	5	4-1	8-1	10-15	5-10	5-15
Atriplex confertifolia	1			x		15	4-1	8-1	10-15	5-10	5-1
Atriplex canescens	<u>1</u>		x			50	4-1	8-1	10-15	5-10	5-1
Total	80										
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?

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

Type of treated area (name) 27 - SALI, Artr

Species	Amount in cover	Forage value				Utili- zation ave.	Start growth	Flow- ering	Development Seed ripe	Regrowth Leaves -twigs	3/ Flower stalks
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	<u>2/</u> (percent)	(check one)				(Per' t)	(date)	(date)	(date)	(date)	(date)
Poa spp.	8		x			60	4-20	5-20	8-10	7-5	6-25
Distichlis stricta	6			x		40	4-25	6-15	8-15	7-5	6-25
Elymus spp.	3			x		25	4-15	5-31	8-10	7-5	6-25
Hilaria jamesii	2		x			50	4-25	6-15	8-15	7-5	6-25
Agropyron smithii	2	x				60	4-5	5-31	8-1	7-1	6-20
Bromus tectorum	1				x	25	4-1	4-15	6-1	5-25	5-15
Calamagrostis rubescens	<u>3</u>	x				60	4-20	5-20	8-10	7-5	6-25
Total	25										
Forbs											
Misc. Forbs	<u>10</u>				x	10	4-1	5-1	6-15	-	-
Total	10										
Shrubs and trees <u>1/</u>											
SALI spp.	31				x	10	4-1	4-25	5-20	-	-
Rosa spp.	10				x	10	5-1	6-1	7-10	5-10	5-1
Chrysothamnus spp.	6			x		40	4-1	8-1	10-1	5-10	5-1
Artemisia tridentata	12				x	25	4-1	8-1	10-15	5-10	5-1
Populus fremontii	1				x	5	4-1	4-25	5-20	-	-
Sarcobatus vermiculatus	<u>5</u>				x	5	4-1	8-1	10-15	5-10	5-15
Total	<u>65</u>										
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?

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

Type of treated area (name) 74 - Agr

Species	Amount in cover	Forage value				Utilization ave.	Start growth	Development Flow-ering	Seed ripe	Regrowth 3/ Leaves -twigs	Flower stalks
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	<u>2/</u> (percent)	(check one)				(Perc 't)	(date)	(date)	(date)	(date)	(date)
Agropyron cristatum	93	x				60	4-1	5-25	7-15	6-15	6-5
Bromus tectorum	<u>2</u>				x	25	4-1	4-15	6-1	5-25	5-15
Total	95										
Forbs											
Misc. Forbs	1				x	10	4-1	5-1	6-15	-	-
Salsola kali	<u>2</u>				x	10	4-1	5-1	6-15	-	-
Total	3										
Shrubs and trees <u>1/</u>											
Artemisia tridentata	<u>2</u>				x	25	4-1	8-1	10-15	5-10	5-1
Total	<u>2</u>										
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?

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 (percent) ^{3/}	Density of forage (percent of potential)	Sheet Erosion	
					Depth (Inches)	Extent (Percent of ground area)
1 - Agcr	60	M	64% G 36% P	70	-	-
2 - Agcr	60	M	50% G 50% P	70	-	-
3 - Agcr, Artr	50	M	63% G 37% P	70	-	-
20 - JUNI, Artr	25	M	47% G 53% P	60	1/8	10%
21 - JUNI, Artr	25	M	60% G 40% P	60	1/8	10%
22 - Artr, Hija	30	M	42% G 58% P	60	-	-
23 - Artr, Atco ¹	30	M	38% G 62% P	60	-	-
24 - Artr, Hija	30	M	27% G 73% P	60	-	-
27 - SALI, Artr	15	M	29% G 71% P	60	-	-
74 - Agcr	60	M	20% G 80% P	60	-	-
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? 15

What are the principal foraging game animals? Deer

Grazing Formula

State Utah Agency BLM District Vernal

Allotment Diamond Mt Acres 5730 Kind stock Cattle

AUs 200 AUMs 400 Season May 1-31 to Dec 1-31

Forage use % Key species Acr

Plant develop.	Start growth	Flowering	Seed ripe	Regrowth (seed)
Org.	Apr 20	June 10	Sept 1	
Acr. Date:	April 1	May 25	July 15	May 5

District Plan - Treatments

				Rest									

May June July Aug Sept Oct Nov Dec

Suggested Plan - Treatments

Above plan OK.												

Principal vegetation types Acr ART

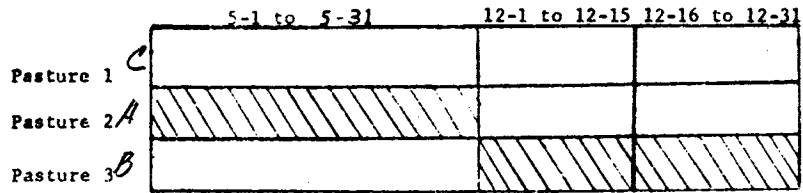
Topography Rolling Date

Elevation range to ft. Name

REST ROTATION DIAMOND MOUNTAIN ALLOTMENT

GRAZING SCHEDULE

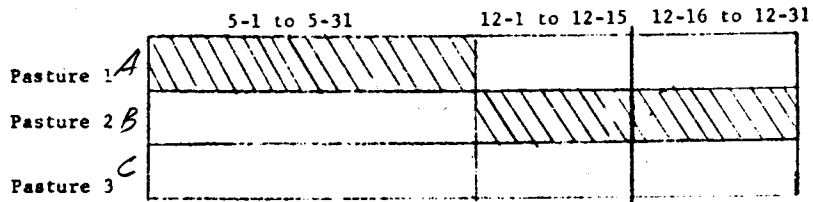
1967



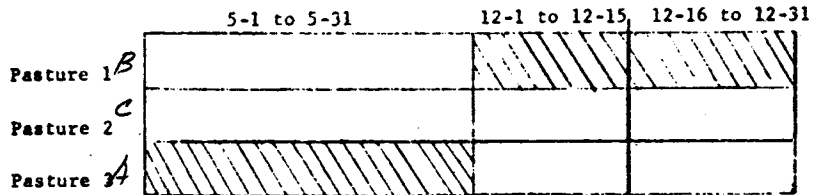
19

ABC
BCA
CAB

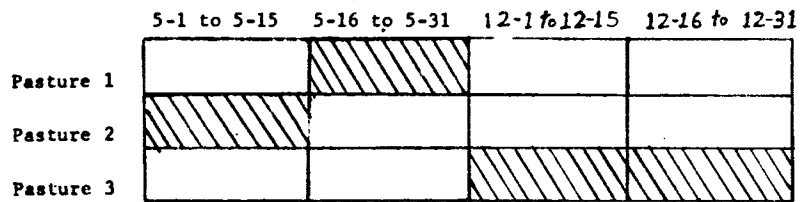
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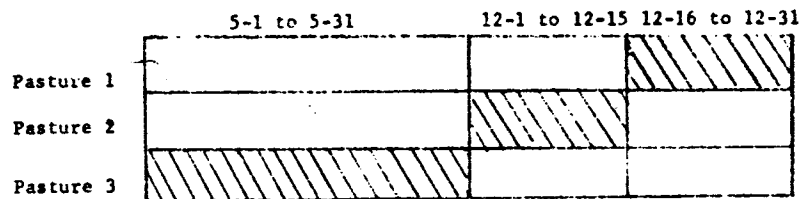
1969



1970



1971



Grazed



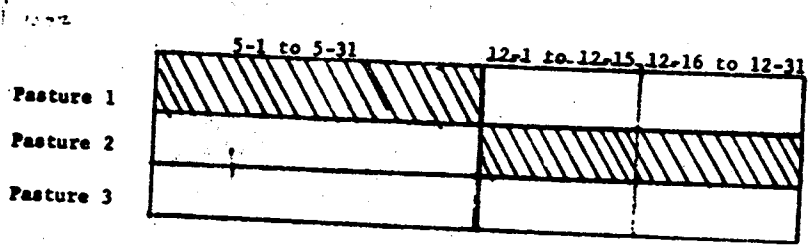
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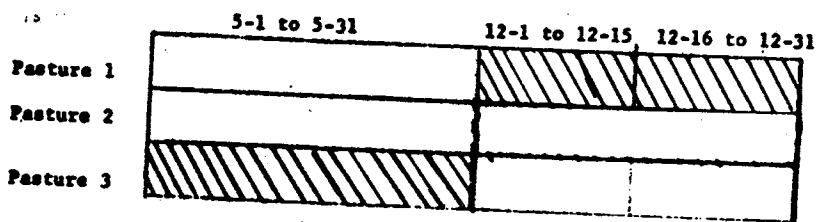
REST ROTATION DIAMOND MOUNTAIN ALLOTMENT

GRAZING SCHEDULE

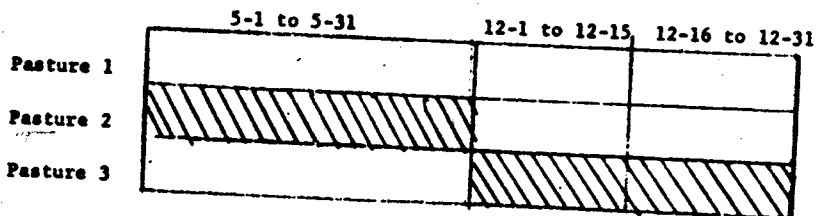
1972



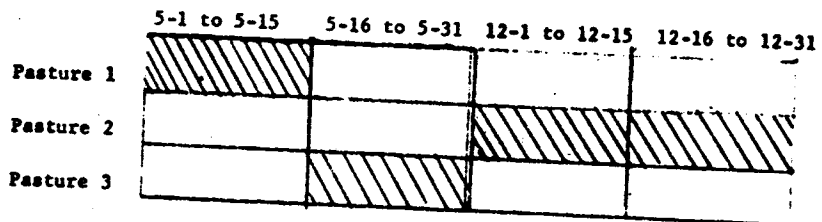
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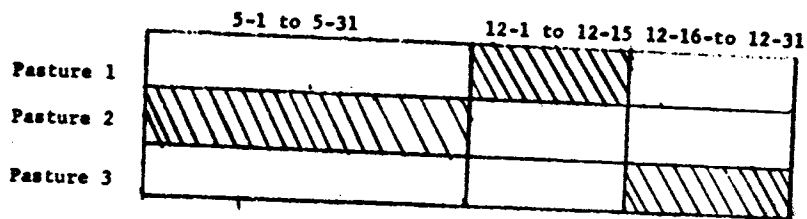
1974



1975



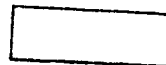
1976



Grazed

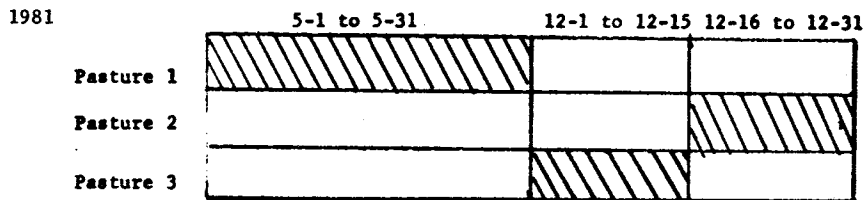
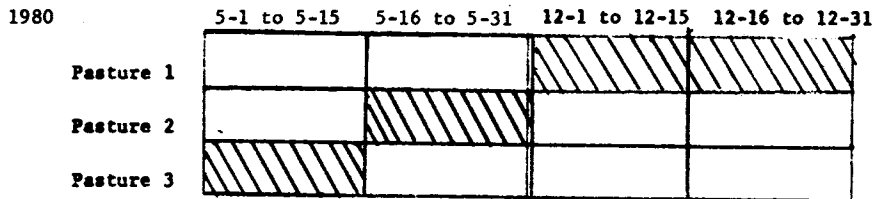
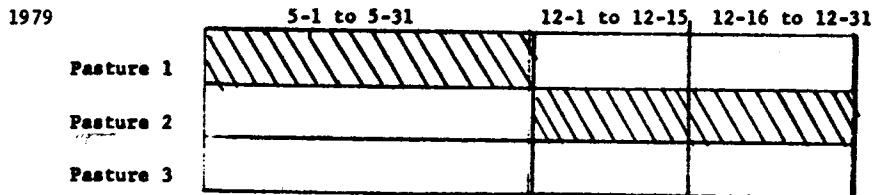
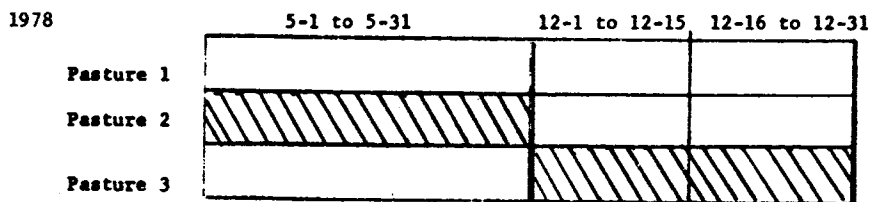
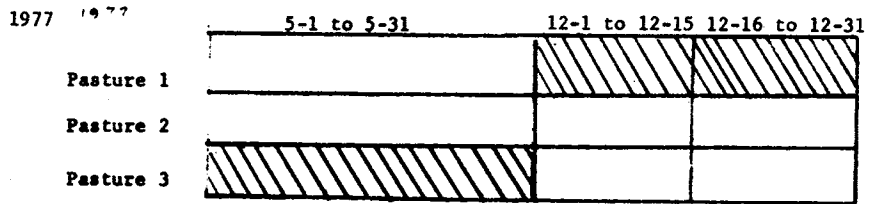


Ungrazed



REST ROTATION DIAMOND MOUNTAIN ALLOTMENT

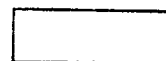
GRAZING SCHEDULE



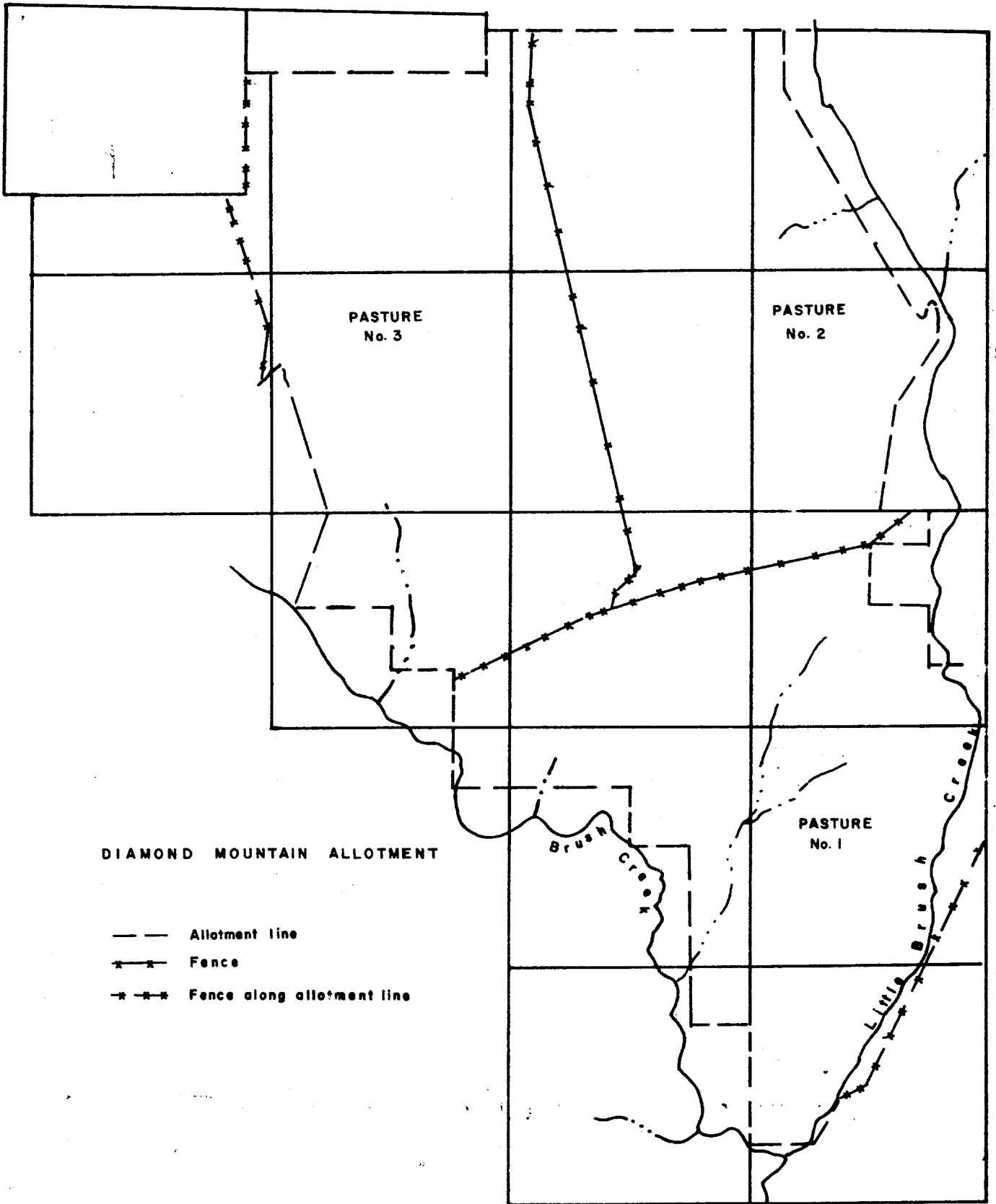
Grazed



Ungrazed



R 22 E



DIAMOND MOUNTAIN ALLOTMENT

- Allotment line
- x-x- Fence
- x-x- Fence along allotment line

R 22 E

