



DESCRIPTION, INVENTORY AND ANALYSIS OF ALLOTMENT

Class of stock Cattle & Sheep Stocking (AUs) 596 (AUMs) 7152

Season of grazing (Dates) March 1 to February 28

Character of topography Rolling hills - Some rugged - Arroyos

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 1-Spur-Boer-Mure	2040	6	2040		2040	
② 1-Boer-Bocu-Boer-ARIS-Nami	9600	27	9600		9600	
③ 1-Boer-Bohi-Boer-ARIS-Nami	21010	57.5	21010		21010	
④ 1-Boer-Bohi-Boer	2720	8	2720		2720	
1-BOU-T-Himw-Gusa	560	1	560		560	
1-Boer-Bohi-Boer	130	.3	130		130	
1-Boer-Boer-Mure-Gusa	90	.2	90		90	
Other						
Allotment Total	36150	100	36150	36150	36150	36150

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 1- Spwr-Bogr.-Mure.-.18

Species	Amount in cover 2/ (percent)	Forage value (Check one)				Utilization ave. (Perc't)	Start growth (date)	Development Flowering (date)	Seed ripe (date)	Regrowth Leaves (date)	3/ Flower stalks (date)
		Ex	Gd	Fr	Pr						
Grasses & Grass-like											
Spwr.	45			X		40	4-1	5-20	9-20	5-1	10-15
Bogr.	20	X				85	5-1	6-1	7-15	9-1	10-15
Mure.	25		X			60	4-15	5-15	7-20	7-1	10-1
Himu.	7		X			50	4-1	5-1	7-20	8-15	10-1
ARIS	7			X		20	4-1	6-1	7-10	9-1	10-15
Bohi.	7	X				80	5-1	5-20	7-15	9-1	10-15
Total	92										
Forbs											
ERIO	7			X		40	4-1	4-20	5-25	—	—
SOPH	7		X			50	3-1	3-20	5-1	—	—
Total	2										
Shrubs and trees 1/											
Snake weed	5				X	0	2-1	6-1	10-1	—	—
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 or culturally created area

Type or treated area (name) 2 - 1 - Bogr - Bocu - Boer - ARIS, Nomi - :17

Species	Amount in cover	Forage value				Utilization ave.	Start growth (date)	Flowering (date)	Seed ripe (date)	Regrowth leaves (date)	Regrowth (date)
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	(percent)	(check one)				(Per cent)	(date)	(date)	(date)	(date)	(date)
Bogr	5	X				80	5-1	6-1	7-15	9-1	10-15
Bocu	5		X			60	3-15	6-1	7-15	9-1	10-25
Boer	20	X				75	7-1	9-1	11-1	8-1	10-1
ARIS	30			X		20					
Mure	10		X			60	4-1	6-1	7-10	9-1	10-15
Himu	5			X		20	4-1	5-1	7-20	8-15	10-1
Total	75										
Forbs					X	10	2-15	5-20	6-25	-	-
SPHA	3				X	40	4-1	6-20	7-25	-	-
ERIO	2										
Other weeds	5										
Total	10										
Shrubs and tree					X	10	-	-	-	-	-
Nomi	5				X	0	2-1	6-1	10-1	-	-
Gusa	10										
Total	15										
Total	100										

1/ In the ...  
 2/ For ...  
 3/ How ...

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

Type or treated area (name) 31 - Bogr. - Bohi. - Boer. - ARIS - Nomi. - 18

Species	Amount in cover 2/ (percent)	Forage value (check one)				Utilization ave. (Per' t)	Start growth (date)	Development Flowering (date)	Seed ripe (date)	Regrowth Leaves - twigs (date)	3/ Flower stalks (date)
		Ex	Gd	Fr	Pr						
Grasses & Grass-like											
Bogr.	76	X	X			85	5-1	6-1	7-15	9-1	10-15
Bohi	10	X	X			80	5-1	5-20	7-15	9-1	10-15
ARIS	30			X		20	4-1	6-1	7-10	9-1	10-15
Boer	20			X		60	7-1	8-1	9-20	9-1	10-15
Himu.	5			X		50	4-1	5-1	7-20	8-15	10-1
Scbr.	10					20	4-1	4-20	5-20	9-1	10-15
Total											
Forbs											
SPOH	1			X		50	3-1	4-20	5-25	-	-
SPHA	1				X	10	2-15	5-20	6-25	-	-
ERIO	2			X		40	4-1	6-20	7-25	-	-
Total	4										
Shrubs and trees 1/											
Nomi.	1				X	10	-	-	-	-	-
Gusb.	4				X	0	2-1	6-1	10-1	-	-
Total	5										

1/ By including or excluding

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

3/ How late in spring can the species be grazed and still attain a desirable level of twigs or seed-producing flower stalks?

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

Type or treated area (name) (4) 1 - Bogr - Bohi - Boer - . 23

Species	Amount in cover (percent)	Forage value				Utilization ave. (%)	Start grow (date)	Flow-ering (date)	Seed ripe (date)	Development Leaves - twigs (date)	Regrowth flower (date)
		Ex	Gd	Fr	Pr						
Grasses & Grass-like											
Trpu	6				X	0	3-1	5-20	7-1	-	
Bogr	10	X				85	5-1	6-1	7-15	9-1	
Bghi	5	X				70	5-1	6-20	7-15	9-1	
Gimu	30		X			50	4-1	6-1	7-10	9-1	
Boer	10	X				60	7-1	8-1	9-20	9-1	
Spin				X		60	7-1	8-1	9-20	9-1	
Ardi	10				X	15	4-1	6-20	7-15	6-1	
Mure	4		X			40	4-15	5-15	7-20	7-1	
Total	80										
Forbs											
Annual weeds - Spring Season											
Total	0										
Shrub and tree											
Gusa	10					X	0	2-1	6-1	10-1	
Yuga	5					X	10	7-1	8-20	10-1	
Fapa	3			X		X	50	7-1	8-20	10-1	
Nomi	2					X	10	-	-	-	
Total	20										
Grand Total	100										

1/ Excluding cotton  
 2/ For trees and shrubs the only estimate was made in a range improvement program  
 3/ How late in spring can the species be grazed? (1) How late in spring can twigs or seed pods be grazed?

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

Type or treated area (name) 1- BOUT-Himu-Gusa-.22

Species	Amount in cover 2/ (percent)	Forage value				Utilization ave. (Per '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		Check one)									
Himu	25		X			50	4-1	5-1	7-20	8-15	10-1
Boki	10	X				80	5-1	6-20	7-15	9-1	10-15
Boer	20	X				70	7-1	8-1	9-20	9-1	10-15
Bogr	15	X				85	5-1	6-1	7-15	9-1	10-15
more	5		X			60	4-15	5-15	7-20	7-1	10-1
ARIS	7			X		20	4-1	6-1	7-10	9-1	10-15
Total	60										
Forbs											
SPHA	2			X	X	10	2-15	5-20	6-25	-	-
SPoH	1			X		50	3-1	4-20	5-25	-	-
ERIO	2			X		40	4-1	6-20	7-25	-	-
Some other annual weeds											
Total	5										
Shrubs and trees 1/											
GUSA	20				X	0	-	-	-	-	-
Nomi	15				X	10	-	-	-	-	-
Total	35										
Grand Total	100										

1/ Including corridors

2/ For trees and shrubs include estimate 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) 1- Bogr - Bohi - Boer - 21

Species	Amount in cover	Forage value				Utilization ave.	Start growth	Flow-ering	Development Seed ripe	Regrowth Leaves -twigs	3/ Flower stalks
		Ex	Gd	Fr	Pr						
Grasses & Grass-like	2/ (percent)	(check one)				(Per' t)	(date)	(date)	(date)	(date)	(date)
Bogr	15	X				85	5-1	6-1	7-15	9-1	10-15
Bohi	10	X				80	5-1	6-20	7-15	9-1	10-15
Boer	23	X				70	7-1	8-1	9-20	9-1	10-15
ARIS	20				X	20	4-1	6-1	7-10	9-1	10-15
Scbr	15				X	10	3-15	4-20	5-10	-	-
Himu	10		X			50	4-1	5-1	7-20	8-15	10-1
Total	93										
Forbs											
Annual Weeds in Season											
Total	0										
Shrubs and trees 1/											
Gusa	5					X 0	2-1	6-1	10-1	-	-
Nemi	2					X 10	-	-	-	-	-
Total	7										
Grand Total	100										

1/ Including conifers

2/ For trees and shrubs include estimate only for species that are included in a range improvement program.

3/ How late in spring can the species be grazed and still produce a palatable leaf 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) 1- Bogr - Boer - Mure - Gusa - 23

Species	Amount in cover <sup>2/</sup> (percent)	Forage value				Utilization ave. (Per't)	Start growth (date)	Flow-ering (date)	Seed ripe (date)	Development Leaves - twigs (date)	Regrowth <sup>3/</sup> Flower stalks (date)
		Ex	Gd	Fr	Pr						
Grasses & Grass-like											
Mure	15			X		60	4-15	5-15	7-20	7-1	10-1
Himo	10			X		50	4-1	5-1	7-20	8-15	10-1
Bogr	30		X			85	5-1	6-1	7-15	9-1	10-15
Boer	15		X			70	7-1	8-1	9-20	9-1	10-15
ARIS	5				X	20	4-1	6-1	7-10	9-1	10-15
Total	75										
Forbs											
Annual Weeds in Season											
Total	0										
Shrubs and trees <sup>1/</sup>											
Gusa	15				X	0	2-1	6-1	10-1	-	-
Nami	10				X	10	-	-	-	-	-
Total	25										
Grand total	100										

<sup>1/</sup> Including coriaria

<sup>2/</sup> For trees and shrubs include estimate only for species that can be grazed in a range improvement program.

<sup>3/</sup> 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 <sup>1/</sup>	Use of total tonnage of forage in type (percent)	Range condition				
		Vigor of forage species (L, M, H) <sup>2/</sup>	Ratio of good to poor forage species (percent) <sup>3/</sup>	Density of forage (percent of potential)	Sheet Erosion	
					Depth (Inches)	Extent (Percent of ground area)
1- Spwr - Bogr - Mure	40	M	48	90	4	10
1- Bogr - Bocu - Boer - ARS - Nomi	60	M	56	60	1	10
1- Bogr - Bohi - Boer - ARS - Nomi	60	M	46	60	4	10
1- Bogr - Bohi - Boer	60	M	48	70	3	80
1- BOUT - Himu - Gusa	50	M	67	80	0	0
1- Bogr - Bohi - Boer	70	M	53	40	2	70
1- Bogr - Boer - Mure - Gusa	65	M	58	70	1	50
Allotment average	60 ✓	M	52	67	2	33

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 goats? 2.70

What are the principal foraging animals? Deer & Antelope

Table 6. Effect of planned cultural treatments on grazing capacity

Vegetation type to be treated (name)	Area Acres	Artificial reseeding				Effect of cultural treatment (6) minus (4) AIMs (7)
		Capacity at present		Capacity 30 yrs. hence due to:		
		Ac/AIM (1)	AIMs (2)	Grazing management Ac/AIM (3)	Cultural treatment Ac/AIM (4)	
Total						

Grazing capacity (AIMs)

Total						

State New Mexico  
District Roswell  
Allotment Name Circle F

Date 4-3-67

### STATUS OF REST-ROTATION GRAZING ALLOTMENTS

Supplemental information on each rest-rotation allotment:

1. Is the rest-rotation system in operation? Yes  No .
2. Date of start of first grazing season March 1, 1966.  
(Actual date for allotments under management. Planned date for allotments not yet in operation.)
3. Is the form of management in effect or to be applied the same as the one reviewed or suggested by Mr. Hormay?  
Yes  No . If not, supply the following information:
  - a. Diagram of grazing formula in use or planned.
  - b. Map showing pasture layout.
  - c. Map diagrams showing movement of livestock between pastures for one grazing cycle.

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.

While this system was initiated in March, 1966 actual rotation was delayed, as witnessed by Mr. Hormay in November, due to fences being washed out. At this time, 2 of the 8 pastures have been rested during the growing season. Utilization and trend studies are currently being conducted  
(4-3-67)

F.D. Leonard Encl. 1

CIRCLE F ALLOTMENT RANGE TYPE MAP

R.18E R.19E.

R.19E. R.20E.

T.4S.  
T.5S.



Legend

- 1-Sper-Boegr-Mure-28
- 1-Boegr-Bacu-Boegr-ARI & Nomi-37
- 1-Boegr-Ichhi-Boegr-ARIS-Nomi-18
- 1-Boegr-Bahi-Boegr-23
- 1-BOUT-Himu-Guse-22
- 1-Boegr-Bahi-Boegr-21
- 1-Boegr-Boegr-Mure-Gusa-23
- Pasture No.