V 8/30/89



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

ELKO DISTRICT OFFICE

3900 E. Idaho Street P.O. Box 831 Elko, Nevada 89801



AUG 3 0 1989

Ms. Dawn Lappin, Director WHOA, Inc.
P.O. Box 555
Reno, NV 89504

Dear Ms. Lappin:

Enclosed is the North Butte Valley allotment evaluation for your input. Please provide me with your formal written comments and any additional information you may have by September 30, 1989. Your comments should be clear and concise and refer to specific pages and paragraphs within the evaluation.

Sincerely yours,

JOHN A. PHILLIPS, Manager Wells Resource Area

Enclosures: As stated above





ELKO DISTRICT, WELLS RESOURCE AREA NORTH BUTTE VALLEY ALLOTMENT EVALUATION

I. INTRODUCTION

The permittee in North Butte Valley Allotment is William and Elizabeth Dickinson. North Butte Valley is an "M" (maintain) allotment. Because the allotment has a grazing system, no priority for future planning or range improvements is assigned.

The evaluation period for this allotment is from 1983 to 1988.

II. INITIAL STOCKING LEVEL

A. Livestock Use

Dickinson's ten-year permit is described in Table 1. Since 1983, temporary non-renewable (TNR) has been issued twice (in 1984 and 1986). The average TNR for those two years is 41 AUMs.

TABLE 1. North Butte Valley Preference

Active Pref.	Susp. Pref.	Total Pref.	Fenced Fed. Range	Season of Use	stock	% Public Land
1,645	0	1,645	51	5/1 to 12/22	206 Cattle	100

A grazing system was initiated in North Butte Valley in 1979 and revised in 1983. The 1983 grazing agreement can be found in Appendix 1. Most years, this system was revised at the beginning of each grazing season. Actual grazing use can be found in Sec. IV.B. of this evaluation, and a summary of seasons of use, by pasture is in Appendix 2.

B. Wild Horse Use

There are portions of the Cherry Creek and Maverick-Medicine wild horse herds in North Butte Valley allotment (see map 1 in Appendix 3). The number of wild horses that actually use the allotment is dependent upon the time of year and feed and water availability. Generally, wild horses graze year-long in portions of the allotment. Although horse use is made mostly in the native pastures, they have been spotted in the Juniper and Palomino Seedings.

The Rangeland Program Summary (RPS) wild horse objective is to provide forage to sustain 480 AUMs of wild horse use.

C. Wildlife Use

The Wells Resource Management Plan (RMP) indicates that the allotment

is located in both mule deer summer and winter range (see map 2 in Appendix 3), and that reasonable numbers of mule deer exceed existing numbers. However, discussions with Nevada Department of Wildlife (NDOW) confirm that little use is made by mule deer in North Butte Valley Allotment.

The RPS wildlife objective is to provide 840 AUMs for mule deer.

III. ALLOTMENT PROFILE

A. <u>Description</u>

North Butte Valley is located within the Cherry Creek Resource Conflict Area (RCA), at the north end of the Cherry Creek Range (see Map 3 in Appendix 3). Table 2 lists land ownership by pasture.

In the mid-1970's the allotment was cross-fenced into three native and three seeded pastures (see Map 4 in Appendix 3). The Juniper Field seeding receives very little cattle use because of a lack of stock water.

The native pastures are characterized by saline meadows and saline bottom ecological sites that support rabbitbrush, greasewood and wild rye.

The fences surrounding the Juniper, North, and South pastures end either in the foothills of the Cherry Creek Mountains or in the West Buttes, and so do not totally restrict horse movements. The majority of their grazing use is made in the native pastures. The horses water at the slough areas of the Spring, North and South pastures in the summer months. A spring on the east bench of West Buttes, in the North pasture, is also used heavily by wild horses.

TABLE 2. Allotment Acreage

	Public	Unfenced Private		
Pasture	Acres	Acres	Total	
Lower	4,332	7	4,339	
Palomino	2,545	0	2,545	
Juniper	6,931	17	6,948	
Spring	4,806	0	4,806	
North	7,481	19	7,500	
South	4,813	240	5,053	
FFR	318	0	318	
TOTAL	31,226	283	31,509	

B. Objectives

de de

RPS Objectives

This section includes objectives identified in the RMP and the Rangeland Program Summary. General allotment objectives are covered by the following RPS and Key Area objectives.

The wildlife and livestock RPS objectives (numbers two and five below) have been modified slightly.

- Manage livestock grazing to sustain 1,645 AUMs active grazing preference.
- 2. Maintain or improve the present ecological status and trend.
- 3. Improve livestock distribution in Juniper pasture.
- 4. Manage rangeland habitat to provide forage to sustain 480 AUMs of wild horse use.
- 5. Improve or maintain mule deer summer and winter range to good or excellent condition to provide forage and habitat capable of supporting reasonable numbers of 819 mule deer with a forage demand of 840 AUMs.
- 6. Facilitate big game movements by evaluating and modifying existing fences to Bureau standards if necessary.
- 7. Protect, enhance, or develop one spring, seep, and/or wet meadow for its wildlife values.
- 8. Improve crucial deer winter habitat by cutting pinyon and juniper.

Key Area Objectives

This section outlines the specific key area objectives identified in the North Butte Valley Allotment Monitoring Plan.

L001 -- Palomino Seeding. 1. Improve Crested wheatgrass production to 3.0 acres/AUM. 2. Do not exceed a combined, annual utilization of 60% on Crested wheatgrass (combined use includes livestock, wildlife and wild horses).

<u>L002 -- Lower Seeding</u>. 1. Improve Crested wheatgrass production to 3.0 acres/AUM. 2. Do not exceed a combined, annual utilization of 60% on Crested wheatgrass (combined use includes livestock, wildlife and

wild horses).

<u>L003</u> -- South Pasture. 1. Improve from current mid-seral ecological status to late-seral stage by 2004. 2. Do not exceed a combined, annual utilization of 50% on native key species (combined use includes livestock, wildlife and wild horses).

<u>L004 -- North Pasture</u>. 1. Maintain current late-seral stage. 2. Do not exceed a combined, annual utilization of 50% on native key species (combined use includes livestock, wildlife and wild horses).

L005 -- Spring Pasture. 1. Improve from current mid-seral status to late-seral by 2004. 2. Do not exceed a combined, annual utilization of 50% on native key species (combined use includes livestock, wildlife and wild horses).

L006 -- Juniper Seeding. 1. Establish reseeded vegetation and achieve 3.0 acres/AUM production. 2. Do not exceed a combined, annual utilization of 60% on Crested wheatgrass (combined use includes livestock, wildlife and wild horses).

C. Key Species Identification

Listed in Table 3 are the key species for each key area in the allotment.

TABLE 3. Key species by key area

<u>Key Area</u>	Key Species	
L001	Crested wheatgrass (AGCR)	
L002	Crested wheatgrass (AGCR)	
L003	Alkali sacaton (SPAI), Creeping wildrye (ELTR3)	
L004	Alkali sacaton (SPAI), Basin wildrye (ELCI2)	
L005	Basin wildrye (ELCI2), Mat muhly (MURI)	

IV. MANAGEMENT EVALUATION

- A. The purpose of this evaluation is to determine whether the multipleuse objectives are being achieved and to support recommendations for any needed management changes.
- B. Summary of Studies Data

The following are summaries of data in table and narrative form.

1. Actual Use and Key Area Utilization

Listed below in Table 4 is a summary of actual use and key area utilization data. A summary of periods of use, by pasture can be found in Appendix 2.

TABLE 4. Actual Use and Key Area Utilization

		North Pasture	е		South Pasture			ring sture	
	Actual	KA	Adj.	Actual	KA	Adj.	Actual	KA	Adj.
	<u>Use</u>	Util.	Util.	<u>Use</u>	Util.	Util.	<u>Use</u>	Util.	Util.
1983	223	27*	47	439	70	121	0	0	0
1984	357	26	51	275	80	158	127	46	91
1985	383	5 4	53	288	57	56	201	33	3 2
1986	357	3 6	42	343	62	73	233	45	5 3
1987	426	53	47	282	59	52	0	0	0
1988	379	50	32	359	63	37	292	39	25

* Utilization at this key area was made by wild horses. All other readings are for cattle.

KA Util. = highest key species utilization (of current years growth) at key area.

Adj. Util. = actual key area util. x crop yield index

		Junipe: Pastur			Palomin Pasture			wer sture		
	Actual	KA	Adj.	Actual		Adj.	Actual	KA	Adj.	
	Use	Util.	Util.	<u>Use</u>	Util.	Util.	<u>Use</u>	Util.	Util.	
1983	0	0	0	546	40	69	336	26	45	
1984	0	0	0	334	29	57	590	51	100	
1985	0	0	0	412	51	50	261	68	67	
1986	0	0	0	357	52	61	399	54	63	
1987	109	5	4	213	35	31	542	55	48	
1988	0	0	0	305	61	38	393	49	31	

KA Util. = percent utilization of current years growth of Crested wheatgrass at key area.

Key area utilization is generally representative of the average pasture utilization. (South pasture is the exception, where key area utilization appears to be heavier than average pasture utilization.) However, actual use and utilization are poorly correlated with the exception of Palomino pasture. An overall negative relationship between actual use and utilization existed

in North and Spring pastures (as actual use increased, utilization decreased).

2. Use Pattern Maps

Use pattern maps exist for most pastures for 1986, 1987 and 1988 (see Appendix 4). Utilization of the Palomino Seeding for these years is mostly heavy or moderate. Lower Seeding received mostly moderate use. Because of its lack of water, Juniper pasture received only slight, incidental livestock use (trail or with open gates to adjacent pasture).

All three native pastures received mostly moderate and light use. The sloughs comprise a small percentage of the native fields, but receive consistently heavy use.

3. Trend and Ecological Status

Summarized below in Table 5 is a summary of frequency and ecological status data.

TABLE 5. Trend and ecological status

			Frequen	су		Lbs./Ac.	Production	
Key Area	Key Species	1983	1988	Chg.*	1983	1987	Chg.	
L003	SPAI	25	19.5	-5.5	52	489	437	
(South)	ELTR3	37.5	42	NSC	132	279	147	
			Ecolog	ical			625	
			Status	Rating	27	46		
							100	
L004	SPAI	62	60.5	NSC	89	223	134	
(North)	ELCI 2	16.5	12.5	NSC	13	145	132	
			Ecolog	ical				
			_	Rating	61	55		
L005	ELCI 2	35	43.5	8.5	74	1756	1682	
(Spring)	MURI	24	26.5	NSC	27	0	- 27	
			Ecolog	ical				
			Status	Rating	37	63		

NSC = No Significant Change

Production at all native key areas increased dramatically in 1988 (production and species composition can be found in Appendix 5). This increase may be attributed to a number of things. In 1983 ten production hoops were clipped or estimated, while in 1988, 15 hoops were sampled. The increased sample size may have resulted in the difference in production. In addition, production in 1983 was estimated in August or early September. In 1988, production was read in mid-June. Rubber rabbitbrush, wildrye and basin big sage production is adjusted 10 to 20 times its green weight when clipped early in the year. Lastly, the crop yield index for 1983 nearly halved production. The 1988 index greatly increased production.

Except for the Spring Pasture key area, the 1988 production calculations best fit the ecological site description. Normal year production on ecological sites at the key areas range from 1,000 to 2,500 pounds per acre.

Great basin wildrye production in the Spring pasture was most likely over-estimated in 1988 because of its phenological

^{*} The significance of change of key species remained the same at both the 5 and 10% confidence level.

adjustment. However, key area L005 would remain in late-seral, even if wildrye production is adjusted down to a more reasonable figure by using a lower phenological adjustment factor.

Frequency data at L003, South pasture, indicate that the frequency of occurrence of key species is slightly down or static, while ecological status improved 19 points. The significant decrease in SPAI in the frequency study versus substantial increase in the production of SPAI remains unexplained. However, aspects of the general improvement in ecological status can be explained. In the 1983 ecological status rating, wildrye species were lumped under ELTR3 and credited 5 points. In 1988 the two wildrye species, ELCI2 and ELTR3, were differentiated, allowing for 10 points for wildrye. In addition, in 1983 10 plots were estimated, while in 1988 15 plots were estimated. Additional plots tend to better estimate shrub production. In this case, shrub production declined in 1988 and grass production increased as a result.

The statistical analysis of frequency data is in Appendix 5.

4. Crested Wheatgrass Production

Listed below in Table 6 is a summary of production data.

TABLE 6. Crested wheatgrass production

	Lbs./Ac	oduction	Acres/	AUM*
Key Area	1986	1988	1986	<u>1988</u>
L001 (Palomino)	302	560	4.4	2.4
L002 (Lower)	261	398	5.1	3.4

^{*} Acres/AUM calculated at 60% utilization and 800 lbs. production per AUM. Production was adjusted by crop yield index.

5. Precipitation

Listed below is a summary of precipitation data from Ruby Lake Recording Station. The long-term annual mean for that station is 13.14 inches.

TABLE 8. Precipitation

per ce

7.78	10 91	40 04	110	
	10.84	10.84	11.2	ND
.97	.98	1.17	.88	.63
	.97	.97 .98	.97 .98 1.17	.97 .98 1.17 .88

ND = incomplete data.

Isohomeotropical charts indicate that Ruby Lake best represents weather patterns in the allotment.

6. Big Game Habitat Conditions

Habitat studies have not been established in mule deer summer range.

One habitat study was established in mule deer winter range in 1988. This study was located within the boundaries of a selective cutting project designed to improve habitat conditions in DW-1. The purpose of this study was to monitor vegetative response of understory vegetation and mule deer use of selective cut areas. Analysis of the data collected at this study site indicated winter habitat within the selective cut area is poor at this time. Natural vegetative response should improve habitat conditions through time.

The Wells RMP did not identify antelope use within the North Butte Valley Allotment. However, small satellite populations have made increasing use of the North Butte Valley Allotment in recent years, moving outward from adjacent herd areas. This is partly a result of the 1984 flood event which inundated habitat around the Franklin Lake area in Ruby Valley, and augmentation efforts in adjacent herds in south Ruby Valley and south Steptoe Valley (both in White Pine Co.) in 1988. The NDOW has recently updated their herd use boundary maps, showing the North Butte Valley Allotment as yearlong antelope range.

A Wells RMP amendment will include these new herd area boundary changes along with updated reasonable and existing numbers. Antelope habitat studies, as per BLM Manual 6630, were established in the Spring Pasture in 1988 which indicate yearlong antelope habitat conditions are currently fair. Following a Wells RMP amendment, existing and reasonable numbers will be made allotment specific.

7. Wild Horse Studies

No wild horse studies have been conducted on North Butte Valley Allotment. Key area utilization has not been read prior to cattle turn-out except at one key area in 1983. The Maverick Medicine and Cherry Creek herds were censused in 1985, 1987, and 1989; results are listed in Table 6. Censuses have not been made frequently enough to accurately determine the actual use (in AUMs) made by wild horses in North Butte Valley Allotment.

TABLE 6. Census Results

	Horses	Colts	Total	
June, 1985 (Cherry Creek Herd)	22	3	25	
September, 1985 (Maverick Medicine Herd)	24	11	35	
December, 1985 (Maverick Medicine Herd)	21	3	24	
June, 1987 (Maverick Medicine Herd)	0	0	0	
March, 1989 (Cherry Creek)	4	1	5	

V. CONCLUSIONS

A. RPS Objectives

1. Manage livestock grazing to sustain 1,645 AUMs active grazing preference.

The following data support the conclusion that livestock have been managed to sustain the active grazing preference.

Ecological status at all native sites has substantially improved or has been maintained in late-seral status since 1983. Crested wheatgrass production has also substantially increased since 1986, meeting key area objectives.

Trend on key species is up or has not significantly changed, (with the exception of one key species at one key area which decreased).

Because key area utilization was, on the average, lower than the key area objectives, the preferred stocking rate (calculated using the ratio method or linear regression) indicates that active preference should be adjusted up 91 to 326 AUMs (see Appendix 7). However, because actual use and utilization are so poorly correlated, they should not be used to support adjustments to preference. Use pattern maps indicate that there are distribution problems that could be improved with use of existing range improvements and salting.

2. Maintain or improve the present ecological status and trend.

the same

The Spring pasture key area improved from mid- to late-seral status. The North pasture remained static in late-seral status. South pasture remained in mid-seral status, but improved from 27 to 46 percent of PNC. (At this rate of improvement, the South pasture will most likely be in late-seral status by the year 2004.) Therefore, all sites have been maintained or have improved, meeting the ecological status part of this objective.

Trend of four of the six key species at the native key areas has not significantly changed. The frequency of occurrence of one key species increased and one decreased. Because trend of one key species decreased, this objective was not met.

3. Improve livestock distribution in Juniper pasture.

Water development is the primary means for improving livestock distribution in Juniper pasture. To date no water has been developed in that field. Pinyon Pipeline Extension is scheduled to be built in 1990.

4. Manage rangeland habitat to provide forage to sustain 480 AUMs of wild horse use.

Actual use (in AUMs) made by wild horses in North Butte Valley Allotment has not been measured. Herd censuses are not frequent enough to accurately determine numbers of wild horses through out the year.

Limited censuses indicate that herds are less than objective levels (480 AUMs, or 40 horses for 12 months). However, use pattern maps and key area utilization indicated that the forage needs of wild horses currently using the allotment are being met. In addition, production and frequency studies indicate that ecological status is improving or maintaining and that trend is generally static (see discussions for objectives one and two above.) Therefore, this objective has been met.

5. Improve or maintain mule deer summer and winter range to good or excellent condition to provide forage and habitat capable of supporting reasonable numbers of 819 mule deer with a forage demand of 840 AUMs.

Big game habitat studies have not been established in deer summer range, therefore, data is not available to monitor this objective. However, the North Butte Valley Allotment contains

only a very small portion of DS-1 (approx. 500 acres). Because there is no water in this portion of DS-1, no conflicts exist between this mule deer summer range and livestock use in the North Butte Valley Allotment. Based on professional judgement, this objective has been met.

Pinyon and Juniper invasion has lowered habitat conditions over much of DW-1. The Cherry Creek Habitat Management Plan (HMP) proposes that 10,000 acres of deer winter habitat in DW-1 be improved by selectively cutting 2,500 acres and burning and seeding 500 acres of pinyon-juniper range. Approximately 30 acres of pinyon and juniper in the North Butte Valley Allotment were selectively cut in 1987-88. Following completion of the project in 1988, this cut area was consumed by wildfire. Because habitat improvement objectives were negated by the wildfire, approximately 150 acres were proposed to be reseeded. Approximately 50 acres were seeded in the fall of 1988. The remaining 100 acres were seeded in the spring of 1989. The study location established before the 1988 fire will be used to monitor vegetative response and improvement of habitat conditions.

The Cherry Creek HMP did not identify specific selective cutting areas by allotment. Considering the suitability of North Butte Valley Allotment for cutting/habitat improvement, and the flexibility allowed by the HMP, the deer winter range objective will be met once that portion of the burn area in North Butte Valley Allotment has been successfully rehabilitated and at least one more selective cutting project is completed within the allotment (cutting projects average 20 to 40 acres in size). It should be noted that livestock make little or no grazing use in DW-1 within the North Butte Valley Allotment. Because conflicts between livestock and mule deer winter habitat do not currently exist, livestock use is not a factor in meeting or not meeting this objective.

6. Facilitate big game movements by evaluating and modifying existing fences to Bureau standards if necessary.

The Wells RMP provides for 50 miles of existing fence to be modified within the Cherry Creek RCA. The Cherry Creek HMP has identified 8.6 miles of existing fence within the North Butte Valley Allotment to be modified. No existing fences have been modified to date. Following are fences located in North Butte Valley that have been identified by the Cherry Creek HMP for modification:

Project		Primary Species
Number	Miles	Benefitted
4688	3.0	Mule deer
4589	2.6	Mule deer
4944	3.0	Mule deer

7. Protect, enhance, or develop one spring, seep, and/or wet meadow for its wildlife values.

The Wells RMP provides for 25 spring improvement/development projects to be completed within the Cherry Creek RCA. The Cherry Creek HMP identified South Spring (T. 28 N., R. 62 E., Section 9, NE1/4SW1/4) located in North Butte Valley, to be improved or developed. Survey and design work was completed for this project in 1988. Construction is scheduled as early as 1989, pending availability of funds.

8. Improve crucial deer winter habitat by cutting pinyon and juniper.

See the discussion for objective 5 above.

B. Key Area Objectives

A ...

<u>L001 -- Palomino Seeding</u>. 1. Improve Crested wheatgrass production to 3.0 acres/AUM. 2. Do not exceed a combined, annual utilization of 60% on Crested wheatgrass (combined use includes livestock, wildlife and wild horses).

- Crested wheatgrass production increased from 4.4 acres/AUM to 2.6 acres/AUM, therefore this objective has been met.
- 2. Utilization at the key area was below 60% except in 1988 when it was 61%. Because sampling precision in utilization studies is not exact and the 1988 utilization level is so close to 60%, this objective has been met.

<u>L002 -- Lower Seeding.</u> 1. Improve Crested wheatgrass production to 3.0 acres/AUM. 2. Do not exceed a combined, annual utilization of 60% on Crested wheatgrass (combined use includes livestock, wildlife and wild horses).

- 1. Production on Lower seeding increased from 5.1 acres/AUM to 3.4 acres/AUM, therefore this objective has been met.
- 2. Utilization was below 60% except in 1985, when it was 68%, therefore this objective has not been met.

L003 -- South Pasture. 1. Improve from current mid-seral ecological status to late-seral stage by 2004. 2. Do not exceed a combined, annual utilization of 50% on native key species (combined use includes livestock, wildlife and wild horses).

- 1. South pasture improved from 27 percent of PNC to 46 percent, but remains in mid-seral status. In the short-term, this objective has not been met. However, adequate progress is being made toward attainment of this long-term objective.
- 2. Utilization of native key species exceeded 50% every year in the South pasture, therefore this objective was not met.

<u>L004 -- North Pasture</u>. 1. Maintain current late-seral stage. 2. Do not exceed a combined, annual utilization of 50% on native key species (combined use includes livestock, wildlife and wild horses).

- A change in the ecological site description at this key area resulted in a 1983 ecological status rating of 61, or late-seral. Late-seral status was maintained at this key area.
- 2. Key area utilization exceeded 50% two out of six years (54% in 1985, and 53% in 1987) in the North pasture. Because sampling precision in utilization studies is not exact and the 1985 and 1988 utilization levels are so close to 50%, this objective has been met.

<u>L005 -- Spring Pasture</u>. 1. Improve from current mid-seral status to late-seral by 2004. 2. Do not exceed a combined, annual utilization of 50% on native key species (combined use includes livestock, wildlife and wild horses).

- 1. A change in the ecological site description at this key area resulted in a 1983 ecological status rating of 37, or mid-seral status. Ecological status at this site improved from mid- to late-seral status.
- Key area utilization for native key species in Spring pasture was less than 50% on all years. Therefore this objective has been met.

L006 -- Juniper Seeding. 1. Establish reseeded vegetation and achieve 3.0 acres/AUM production. 2. Do not exceed a combined, annual utilization of 60% on Crested wheatgrass (combined use includes livestock, wildlife and wild horses).

Insufficient data exists to determine if this objective has been met. The Juniper seeding was reseeded in 1984, however, production for the

seeding has not been determined. The current production of the seeding is estimated to be about 5.0 acres/AUM, based on professional judgment. No key area has been established in this field because it receives little or no use.

VI. CONSULTATION

Roy Price and Ray Lister, Wildlife Biologists (BLM)
Bruce Portwood, Wild Horse and Burro Specialist (BLM)
Doug Mary, Supervisory Range Conservationist (BLM)
Steve Kirakofe, Soil Scientist (BLM)
Karl Scheetz, Range Conservationist (BLM)
William and Elizabeth Dickinson, permittee

VII. RECOMMENDATIONS

The following recommendations are made to facilitate attainment of allotment objectives and to update RPS and key area objectives. Management actions and improvements listed in the Rangeland Program Summary are also included in the following recommendations.

A. Revise the existing grazing system as follows:

SEEDINGS					
	1990	1991	1992		
Lower Seeding	1	3	2	(1)	5/1 to 6/20
Palomino Seeding	2	1	3	(2)	6/21 to 7/31
Juniper Seeding	3	2	1	(3)	rest
NATIVE					
North Pasture	1	3	2	(1)	8/1 to 9/15
Spring Pasture	2	1	3	(2)	9/15 to 10/31
South Pasture	3	2	1	(3)	11/1 to 12/22

Repeat the rotation in 1993.

Although progress is being made toward attaining allotment objectives, problems exist with the current grazing system. The old grazing system generally allowed for 52 days grazing use in each field. Some fields lacked the production necessary for that length of use. This, in addition to annual ranch operation changes, resulted in numerous revisions to the grazing agreement that did not provide systematic rotation of some fields. The revised grazing system listed above will better fit the carrying capacity of all fields and meet the phenological needs of key species.

B. Revise the RPS objectives listed below, as follows:

- Manage livestock to maintain or improve ecological status on native range to late-seral status.
- 2. Provide forage to sustain 1,645 AUMs for livestock grazing.
- 3. Maintain Crested wheatgrass production.
- 4. Manage rangeland habitat to provide forage to sustain 480 AUMs of wild horse use.

- 5. Improve or maintain mule deer summer and winter range to good or excellent condition to provide forage and habitat capable of supporting reasonable numbers of 819 mule deer with a forage demand of 840 AUMs.
- 6. Improve yearlong antelope habitat to at least good condition to provide forage and habitat capable of supporting reasonable numbers of antelope as determined by the Nevada Department of Wildlife.

The primary changes to the RPS objectives are the addition of a Crested wheatgrass objective, and an objective for habitat of expanding antelope herds.

- C. Revise key area objectives as follows:
 - L001 -- Palomino Seeding. Maintain 3 acres/AUM production of-Crested wheatgrass. Do not exceed a combined, annual utilization of 60% on Crested wheatgrass (combined use includes livestock, wildlife and wild horses).
 - L002 -- Lower Seeding. Maintain 3 acres/AUM production of Crested wheatgrass. Do not exceed a combined, annual utilization of 60% on Crested wheatgrass (combined use includes livestock, wildlife and wild horses).
 - <u>L003 -- South Pasture</u>. Improve from current mid-seral ecological status to late-seral status by the year 2004. Do not exceed a combined, annual utilization of 55% on native key species (combined use includes livestock, wildlife and wild horses).
 - L004 -- North Pasture. Maintain the current late-seral status. Do not exceed a combined, annual utilization of 55% on native key species (combined use includes livestock, wildlife and wild horses).
 - <u>L005 -- Spring Pasture.</u> Maintain the current late-seral status. Do not exceed a combined, annual utilization of 55% on native key

species (combined use includes livestock, wildlife and wild horses).

A. .

L006 -- Juniper Pasture. Maintain current crested wheatgrass production. (A key area must be established to monitor this objective). Do not exceed a combined, annual utilization of 60% on Crested wheatgrass (combined use includes livestock, wildlife and wild horses).

The major change to key area objectives is an increase in percent utilization on native key species from 50 to 55 percent. Because native pastures will be deferred every year, increased utilization levels will have little impact on key species. Phenological needs of the plants will be met before grazing use.

In addition, the new objectives reflect the current ecological status of native key areas.

D. All water developments, in particular West Butte Well No. 1 (job number 4716), East Palomino Well (4690) and North Pasture Well (4623) should be maintained and pumped when pasture is in use to improve livestock distribution. Water troughs should be left full of water when cattle are removed until threat of freezing and damage requires draining.

Using all existing water developments will help meet utilization objectives, resulting in improved ecological status and an upward trend of key species. In addition, water will be made available to wild horses and big game, improving their habitat.

- E. Monitor wild horse utilization levels and analyze their impact in 1994, at the next evaluation. This entails reading key area utilization and use pattern mapping prior to cattle turn-out. Monitoring responsibilities will be as outlined in the District Monitoring Plan.
- F. Evaluate fences to determine if they pose a barrier to wild, free roaming status of horses and modify if necessary.

Modification of fences will allow unrestricted movement of wild horses.

G. Modify 8.6 miles of existing fence that poses a hazard or barrier within deer winter and summer range.

Modification of 8.6 miles of fence will improve big game habitat, helping meet the wildlife objective.

H. Improve crucial deer winter habitat by cutting 20 to 40 acres of pinyon and juniper.

Selectively cutting 20 to 40 acres of pinyon and juniper will result in the attainment of deer winter range habitat objectives.

- I. Protect, enhance, or develop South spring for its wildlife values.
- J. Re-evaluate the allotment again in 1994.

ROTATION GRAZING AGREEMENT

Use in the North Butte Valley Allotment will be made as follows:

1984 1987 1985 1986 1983 Palomino Seeding PA 05/01 - 06/22 PA 10/7 - 11/28 No 08/15 - 10/06 No 06/23 - 8/14 $10.06/23 - 08/14 \, \text{LO} \, 05/01 - 06/22 \, \text{LO} \, 10/07 - 11/28 \, \text{SOO} \, 8/15 - 10/06$ Lower Seeding 50.08/15 - 10/06 + 0.06/23 - 0.8/14 + 0.05/01 - 0.6/22 + 0.00/07 - 11/28repeat My North Pasture $N^{0}10/07 - 11/28 = 008/15 - 10/06 \le 006/23 - 08/14 = 05/01 - 06/22$ ox -South Pasture

Until stockwater is developed, use in the Juniper Seeding will be with open gates in conjunction with the Palomino or the Lower Seeding as follows:

1983 1984 1985 w/ Palomino w/ Palomino w/ Palomino w/ Lower repeat

Use in the Spring Pasture will be made after 8/15 each year. The Spring Pasture will be available for spring use after 5/1 on an alternate year basis with written approval of the authorized officer. Maximum use in the Spring Pasture will be 166 AUMs.

The Maximum stocking rate for the North Butte Valley Allotment will be 206 cattle.

The use outlined herein represents the maximum base property qualifications assigned to the North Butte Valley Allotment. It will remain in effect and be made a condition of licensing until terminated or changed by the Bureau of Land Management.

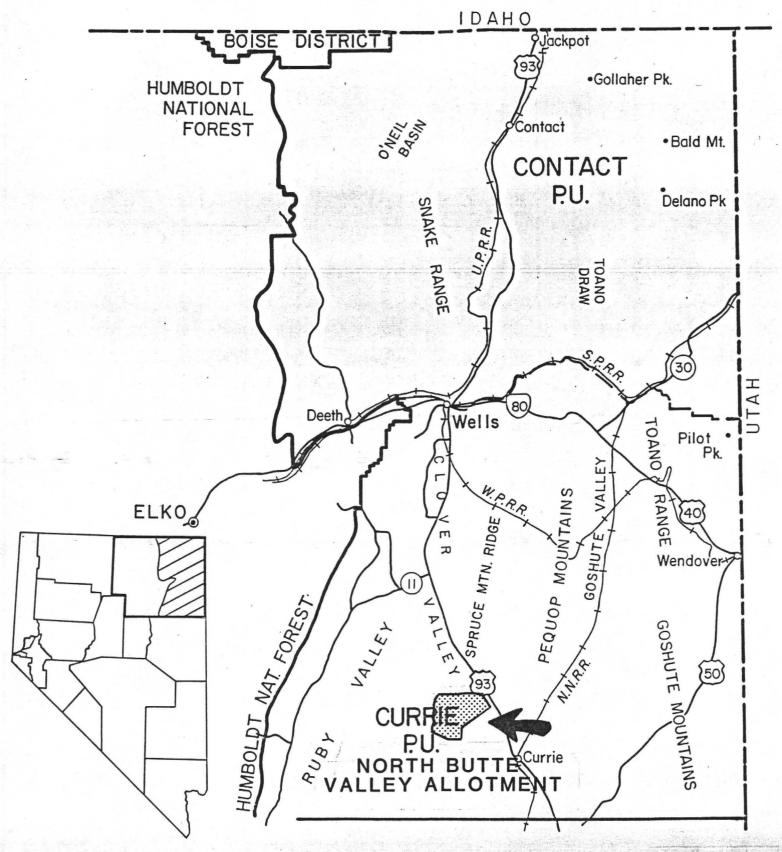
Charles L. Boyer Manager
Wells Resource Area 4/26/83 Wells Resource Area

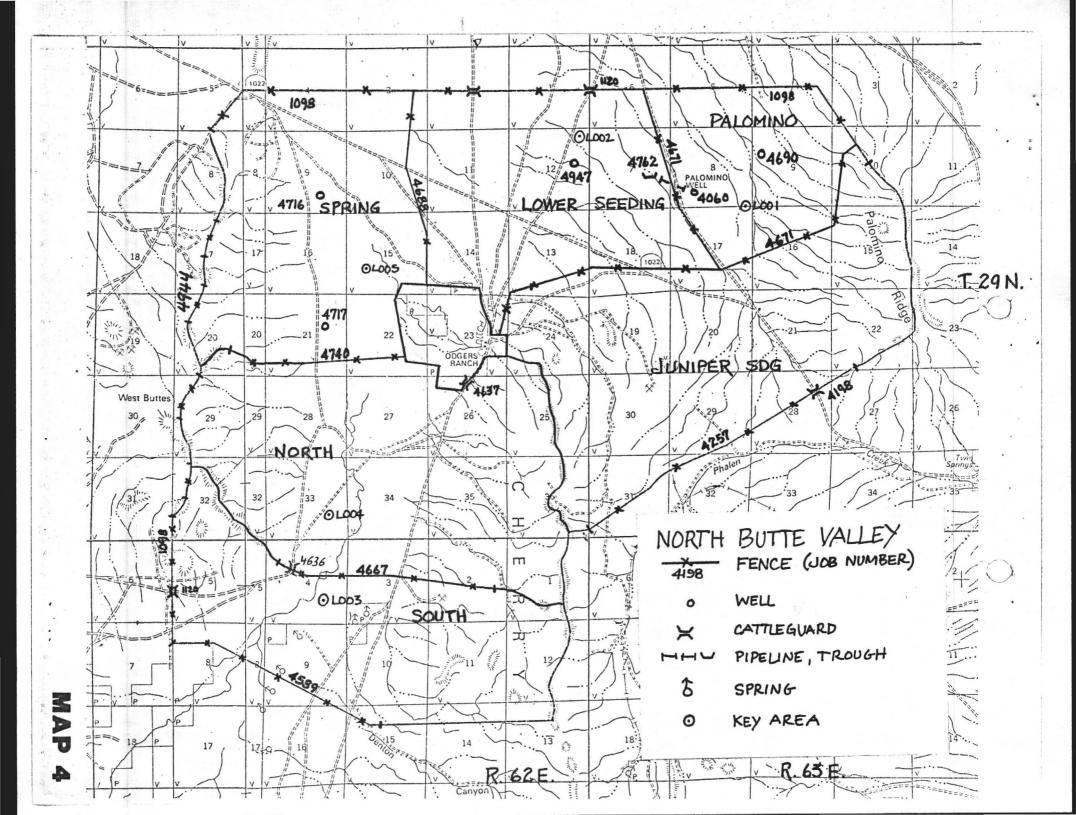
SEASONS OF USE 1983 - 1988

	1988	1987	1986	1985	1984	1983
Lower Seeding	10/02-11/28	04/25-05/28 10/16-11/30	04/21-04/30 10/05-10/11 11/16-12/26	04/15-04/22 10/01-10/31	05/01-06/22 09/27-10/31	06/26-08/24
Palomino	05/01-06/14	05/29-06/28	05/01-06/22	04/23-06/22	11/01-12/23	05/05-06/25 11/23-12/22
North	06/15-08/09	06/29-08/31	06/23-08/14	08/05-09/30	06/23-08/14	10/19-11/22
South	08/10-10/01	09/01-10/11	08/15-10/04	06/23-08/04	08/15-09/24	08/15-10/18
Spring	04/12-04/30 11/29-12/22	Rest	10/12-11/15	11/01-11/22 11/29-12/13	12/15-01/22	Rest
Juniper	Rest	12/01-12/16	Rest	Rest	Rest	Rest

MAP

WELLS RESOURCE AREA ELKO DISTRICT NEVADA





USE PATTERN MAPS FOR NORTH BUTTE VALLEY ALLOTMENT

ARE ON FILE AT THE ELKO DISTRICT OFFICE,

WELLS RESOURCE AREA

Date Established: .0/78

Authors: CP/HA

MIRA: 28E

Dry Saline Meadow 028EY002NV SPAI-SPGR

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

NEVADA Range Site Description

PHYSICAL CHARACTERISTICS

1. PHYSIOGRAPHIC FACTORS

This site occurs along axial-stream floodplains, stream terraces and on inset fans. Slopes range from 0 to 4 percent, but slope gradients of 0 to 2 percent are most typical. Elevations are 5000 to 6300 feet.
CLIMATIC FACTORS

2. CLIMATIC FACTORS

Average annual precipitation is 8 to 12 inches. Mean annual air temperature is 45 to 50 degrees F. The average growing season is 100 to 120 days.

3. SOIL FACTORS

The soils in this site are deep to very deep. Surface soils are . mostly 10 inches or more thick and moderately fine to moderately coarse textured. These soils are slightly to strongly salt and sodium affected in the upper profile with soil reaction and salinity decreasing with depth. They are very poorly to somewhat poorly drained. There is a water table near the surface for short periods in the early spring that usually stabilizes at depths below 40 inches during the summer. Capillary rise of this ground water enhances soil moisture during the growing season. Additional moisture is received on this site as run-in from higher landscapes or as overflow from adjacent streams. These soils are poorly aerated and are slowly to moderately-slowly permeable. Runoff is slow to very slow and there may be some brief ponding in depressional areas. These soils are susceptible to gullying which intercepts normal stream overflow patterns and results in site degradation. Where stream channels become entrenched or gullying occurs, the water table is lowered and a more drought tolerant vegetation succeeds on the site.

For a listing of soils correlated to this range site and representative soil taxon see Appendix II.

4. VEGETATION FAC RS

a. Potential Native Vegetation

The plant community is dominated by alkali sacaton. Alkali cordgrass, alkali bluegrass and sedges are important associated plant species.

Potential vegetative composition is about 85% grasses and grass-likes, 10% forbs and 5% shrubs.

b. Major plant species and percentages of the total community by air-dry weight:

			PERCENT
PLANT			BY WEIGHT
SYMBOL	COMMON	NAME	 (AIR-DRY)

Grasses and Grass-Like Plants

SPAI SPGR CAREX		40-50 10-15 5-10
JUBA	Ealtic rush	2-8
PCJU	alkali bluegrass	2-8
DISPS2	inland saltgrass	2-5
PUCCI	alkaligrass	2-5
PPGG		10-15**
AGSM	western wheatgrass	*
ELTR3	creeping wildrye	
ELCI2	basin wildrye	
MUAS	alkali muhly	

^{**}Allow no more than 5% of each species of this group and no more than 15% in aggregate.

Forbs

PPFF	perennial forbs	5-15**
RUMEX TRIGL POTEN ALOC2 SENEC IRMI	dock arrowgrass cinquefoil iodinebush groundsel wildiris	
IVAX	povertyweed shootingstar	

^{**}Allow no more than 2% of each species of this group and no more than 15% in aggregate.

4. VEGETATION FACTORS (continued)

b. Major plant species and percentages of the total community by air-dry weight:

•			PERCENT
PLANT			BY WEIGHT
SYMEOL	COMMON	NAME	(AIR-DRY)

Shrubs

SSSS	shrubs		2-8**
SAVE4	black greasewood	parts.	
CHNA2	rubber rabbitbrush		
CHAL9	alkali rabbitbrush		

^{**}Allow no more than 2% of each species of this group and no more than 8% in aggregate.

- c. Approximate ground cover (basal and crown) is 15 to 25 percent.
- d. Total annual air-dry production:

*	LES/AC
Favorable years	1500
Normal years	1000
Unfavorable years	700

e. Plant community dynamics

Where management results in abusive livestock use, inland saltgrass and Ealtic rush increase, as alkali sacaton and alkali bluegrass decrease. Foxtail barley and thistle are likely to invade this site. Where severe stream entrenchment occurs, the potential for this site is lost due to change in soil moisture talance. Typically, this site is succeeded by the plant community characterized in the Saline Bottom (O28EYOO4NV) site description following severe stream degredation.

5. ASSOCIATED AND COMPETING SITES

a. Frincipal sites that commonly occur in association with this potential plant community include:

(028EY001NV) Wet Meadow 10-14" P.Z. (028EY004NV) Saline Eottom (028EY044NV) Wetland (028EY050NV) Wet Sodic Bottom

b. Competing sites (and their differentiae) that are similar to this potential plant community:

(O28EYOO1NV) Wet Meadow 10-14" P.Z.

[PCJU &/or PCNE3 and CAREX dominant; more productive]

(O28EYO5ONV) Wet Sodic Bottom

[DISPS2 dominant]

(O28EYCO4NV) Saline Bottom

[ELCI2 dominant and SPAI codominant grasses; more SAVE4; more productive]

B. INTERPRETATIONS FOR MAJOR USES

1. LIVESTOCK GRAZING

- a. This site is suitable for use by livestock during the summer and fall when used in association with other range sites. When this site is used as hayland and/or pasture, it is best grazed when the soil surface has dried out or as hayland aftermath. Care should be taken to avoid use too early in the spring when the soils are wet or saturated. Grazing management should be keyed to Nevada or alkali bluegrass phenology and production. Allow for ample seed production during the grazing cycle.
- b. Stocking rates vary with such factors as kind and class of grazing animal, season of use and fluctuations in climate. Actual use records for individual sites, a determination of the degree to which the sites have been grazed, and an evaluation of trend in site condition offer the most reliable basis for developing initial stocking rates.

Selection of initial stocking rates for given grazing units is a planning decision. This decision should be made ONLY after careful consideration of the total resources available, evaluation of alternatives for use and treatment, and establishment of objectives by the decisionmaker.

2. WOOD PRODUCTS

No known potential.

3. WILDLIFE VALUES

This site provides limited cover and forage for deer, elk, antelope and other upland game animals. This site is often associated with perennial streams and springs and include ponded marsh-like areas which furnish nesting and brood rearing habitat for waterfowl. The site is also used by various shore birds, songbirds, rodents, reptiles and associated predators natural to the area.

B. INTERPRETATIONS FOR MAJOR USES (continued)

4. WATERSHED VALUES

The hydrologic cover condition of this site is fair for representative stands in good and excellent range condition. Hydrologic cover condition will often vary with range condition class. The average runoff curve is about 79 for group C soils and about 84 for group D soils. (See Section 4, SCS National Engineering Handbock runoff quantities and hydrologic curves.)

5. RECREATION AND NATURAL BEAUTY

This site has limited potential for upland game hunting. Some wildlife species use this site and it offers rewarding opportunities for nature study and photography. Aesthetic value is derived from the lush verdure of native grasses during the late spring and summer.

6. THREATENED OR ENDANGERED SPECIES

None known at present.

APPENDIX I

.

Reference Data

1. Site Documentation (number and kind of site inventory records).

SCS-ECS-5 SCS-RANGE-417

<u>6</u>

NV-ECS-1 NV-440C-13 (BLM)

4 Other NV-RANGE-61

- Distribution and extent.White Pine County.
- 3. Location of typical example of this site.

Approved by:

STATE HANGE CONSERVATIONIST

SCS NEVADA

Date approved:

JUN

1988

APPENDIX II

1. Soil taxonomic unit representative of this site:

SSA Soil Taxon Classification

- 2. Type location for scil taxonomic unit representative of this site:
- 3. Listing of soils correlated to this site:

SSA Soil Taxon Classification

4.	,	<u> </u>	T		BO AS OF EARD MANAGEMENT
		1	6	2/9	ECOLOGICAL STATUS WRITE-UP
		800	4	0410	ECOLOGICAL STATES WITTE OF
S	pecies Name or Symbol	Dresen	* 040	8/90M0/10	(1) Allotment: North Buttle Valley
Γ	ELCIZ	6	30-60	6	(2) Examiner(s): LISTETL (3) Write-up no. LODY (North)
	SPAI	38	130-40	38	(3) Write-up no. LODY (North)
-	DISPS2	4	2-5	4	(4) Map unit no.
-	AGSM		12-5	7	(5) Ecological Site: SALINE BOTTOM 28 BX 004
H	PPGG		15-15		(6) Date: Sept. 8, 1983
-	SPGR		3		(7) Quad or Phto. no.
%	POJU		3		(8) Soil series :
	JUBA		13		REMARKS: plant vigor; animal signs (hedging, terracing,
Grass					droppings, etc.); severe erosion signs; % surface rock;
					burned / unburned; seedlings; seeded; PJ invasion; etc.
Г	**				
Γ					
-					
-		•	1		
-					
-					
_					
	PPFF		12-8		
	1 V	2	12		
%	THELLY		12		
Forbs	ASTRA		12		
	DESCIL	T		T	(9) SSF
	SUEDA	十		T	SM (14)
-	AAFF		ľ		SL (14)
-	NAFF.	2	1	2	SR (14)
-					P (14)
L					FP (15)
					R (14)
					G (15)
					TOTAL
					(IO) Veg. aspect:
				×	(11) Slope aspect:
					(12) % Slope :
	SAVE4	9	5-15	9	
%	CHNAZ		2-5		(13) % Rock outcrop:
	SSSS		12-8		
Shrubs					(15) Gr - F - S canopy cover :
& Trees	ATCO		2		(16) Tree cancpy cover:
	CHALG		2	0	(17) % of SWA:
	CHV18	41		2	(18) Elevation:
					(19) Final SWA no.:
					(20) Stratum no. :
				-	(21) Key management area no.:
					(22) Ecological Status: late.
_					TEL/Coologisti Cititas

			11616111		. BUREAU U
% Grass	Pecies Name or Symbol ELCIZ SPAI DISPSZ AGSM PPGG SPGR POJU JUBA SIHY	1 3 21 T	20-60 30-40 2-5 2-5 5-15 3 3	190000/10 12 T	ECOLOGICAL (1) Allotment: North (2) Examiner(s): HC (3) Write up no. LC (4) Map unit no. (5) Ecological Site: SAL (6) Date: LUML (7) Quad or Phto. no. (8) Soil series: ERMARKS: plant vigor; droppings, etc.); severe burned / unburned; seedi
% Forbs	PPFF IVAX THELLY ASTRA		Z-8 Z Z Z		(9) SSF SM (14) SL (14) SR (14) P (14) FP (15) R (14) G (15)
% Shrubs & Trees	SAVE4 CHNAZ SISSS ATCO CHALA	32 33	5-15 2-5 2-8 2 2	15 5	TOTAL (10) Veg. aspect: (11) Slope aspect: (12) % Slope: (13) % Rock outcrop: (14) Total lbs./Ac.: (15) Gr - F - S canopy cov (16) Tree cancpy cover: (17) % of SWA: (18) Elevation: (19) Final SWA no.: (20) Stratum no.: (21) Key management are (22) Ecological Status:

ECOLOGICAL STATUS WRITE-UP
(1) Allotment: North Butte Valley
(2) Examiner(s): Heuklein
(3) Write-up no. LOO4 (North)
(4) Map unit no.
(5) Ecological Site: SALINE BOTTOM 28BX004
(6) Date: Line 21, 1988
(7) Quad or Phto. no.
(8) Soil series :
REMARKS: plant vigor; animal signs (hedging, terracing, droppings, etc.); severe erosion signs; % surface rock; burned/unburned; seedlings; seeded; PJ invasion; etc.
the state of the s
(9) <u>SSF</u>
SM (14)
SL (14)
SR (14)
P (14)
FP (15)
R (14) G (15)
G (15) TOTAL
(IO) Veg. aspect:
(11) Siope aspect:
(12) % Slope:
(13) % Rock outcrop:
(15) Gr - F - S canopy cover :
(16) Tree cancpy cover:
(17) % of SWA:
(18) Elevation:
(19) Final SWA no.:
(20) Stratum no.:(21) Key management area no.:
(22) Ecological Status: 12.
(22) Ecological Status . 1907/

										MATE TRANS	- L										
														DATE				7.			
	ECO	LOGICAL S	ITE	SALINE B	077	OM (28BX)	04)	NORTH P	AS	TURE		NO. OF PL	.079	3 10		PAGE					
PLANT SPE	,		1		5	(X)	1	(X)	1					(-:-)		(X)				(-:-)	(=)
SYM/TYPE	1	PHENO	;	GREEN WT			3				1			TOTAL NO. !		10	i	LBS/	Į į	TOTAL NT	7,
G ,F,S,T	1	STAGE	1	ALL PLTS	1	ADJUST	3	ADJUST	1	ADJUST	1	DRY WT	1	OF PLOTS			i			ALL PLOTS :	COMP
SPAI	}			210						. 77						40		55.45	14	675 57 1	77.00
ELC12	1	6. 6		210		0.68		1.08								10		89.15		235.53	37.85%
	1			31.7		0.64		1.15		1.73		13.49		10 :		10		13.49		235.53	5.73%
DIST	i	6				0.71		1.10		1.73			1	10 }		10		9.03		235.53	3.8 3%
DESCU	1	7		2	050	0.95		1.29		1.73		1.42		10 ;		10		1.42		235.53	0.60%
SUEDA	1	7	(7.1	1		0.98		1.37	1	1.73			i	10		10)	0.78		235.53	0.33%
AAFF	į	6	1	3	i	0.63	I	1.30	2	1.73	1	1.42	1	10 1		10	1	1.42	1	235.53 !	0.60%
AAFF	1	7	1	2	1	0.98	3	1.30	1	1.73	1	1.47	1	10		10	1	1.47	1	235.53	0.63%
AAFF	1	4	1	5	1	0.28	1	1.50	;	1.73	1	1.21	1	10 :		10	1	1.21	1	235.53	0.52%
SAVE4	1	5	1	155	1	0.24		1.00		1.73			1	10		10	1	21.50		235.53	9.13%
CHV18	-	2	1	1		0.32		3.90	-	1.73		0.72		10		10		0.72		235.53	0.31%
CHV18	1	6	-	145		0.79		1.44		1.73		95.35		10		10		95.35		235.53	40.48%
011110			!	745				1.77	1	11/0	!	73.00	1	10 1		10		70.00		200.00	70.70%
						·											·				
TOTAL FOR	}		1		1																
ALL PLOTS	3		i	575.7	I						1	235.53	i				1	235.53	3	i	100.00%
*******								WEIGHT-ES	 (TI)	MATE TRANS	EC.	 T DATA SHE	ET								
																and the despite of the	pat F				
	e	ALCIII ATEN	Di	/ UCNVICTN		ALLOT	MA	4700		VEV ADEA	MICH	LAAA		DATE	THIL		00				
	3	ALCULATED	В,	/ HENKLEIN		ALLOT	NO.	4308	and the	KEY AREA	NO.	. L004		DATE	JUN	E 21, 19	88 J				
	ECO	LOGICAL S	IT	/ HENKLEIN SALINE B	OTT	ALLOT	NO.	4308 (04)	NOI	KEY AREA	NO.	. L004 ND. OF PL	OTS	DAT E J G 15		PAGE	1	0F	1		
PLANT SPF	ECO	LOGICAL S	IT	SALINE B	OTT	OM (28B	X (004)	NO	RTH PAST.		NO. OF PL	.079	3 15 		PAGE	i 	OF 			{=}
	EC0 	LOGICAL S	ITE	SALINE B	0T1 	OM (28B (X)	X ((X)	NO!	(-:-)	 ! }	NO. OF PL (=)	0T9	6 15 		PAGE (X)	1 1	OF (=)	!	(-:-)	{=} %
PLANT SPF	EC0	PHENO	1	SALINE B	0T1 	(X) DRY WT	X ((X) PHENO	NOI ;	(-:-) PRECIP	1 1	NO. OF PL (=) TOTAL	013	3 15 		PAGE (X) 10	1 ! !	OF (=) LBS/	!		
PLANT SPF SYM/TYPE G,F,S,T	EC0	PHENO STAGE	178	GREEN WT	011	OM (28B (X) DRY WT ADJUST	X ((X) PHENO ADJUST	NOI	(-:-) PRECIP ADJUST	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(=) TOTAL DRY WT	019	3 15 (-:-) TOTAL NO. OF PLOTS	1	(X) 10	1	0F (=) LBS/ ACRE		(-:-) TOTAL WT ALL PLOTS	COMP
PLANT SPP SYM/TYPE G,F,S,T	EC0	PHENO STAGE	1	GREEN WT ALL PLTS	011	(X) DRY WT ADJUST	X ((X) PHENO ADJUST	NOI	(-:-) PRECIP ADJUST 0.63		(=) TOTAL DRY WT	019	(-:-) TOTAL NO. OF PLOTS		(X) 10		0F (=) LBS/ ACRE 222.67		(-:-) TOTAL WT ALL PLOTS	% COMP 20.46%
PLANT SPP SYM/TYPE G,F,S,T SPAI SIHY	EC0	PHENO STAGE	1	GREEN WT ALL PLTS	011	(X) DRY WT ADJUST 0.39 0.34	X ((X) PHENO ADJUST 3.27 6.79	NO	(-:-) PRECIP ADJUST 0.63 0.63		(=) TOTAL DRY WT 334.01 3.66	015	(-:-) TOTAL NO. OF PLOTS 15		(X) 10		0F (=) LBS/ ACRE 222.67 2.44		(-:-) ; TOTAL WT ; ALL PLOTS ; 1088.56 ;	% COMP 20.46% 0.22%
PLANT SPP SYM/TYPE G,F,S,T	EC0	PHENO STAGE	1	GREEN WT ALL PLTS	0	(X) DRY WT ADJUST	X ((X) PHENO ADJUST	NO	(-:-) PRECIP ADJUST 0.63		(=) TOTAL DRY WT	015	(-:-) TOTAL NO. OF PLOTS		(X) 10		0F (=) LBS/ ACRE 222.67		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56	% COMP 20.46%
PLANT SPP SYM/TYPE G,F,S,T SPAI SIHY	EC0	PHENO STAGE	1	GREEN WT ALL PLTS 165	OT	(X) DRY WT ADJUST 0.39 0.34	X ((X) PHENO ADJUST 3.27 6.79	NO	(-:-) PRECIP ADJUST 0.63 0.63	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(=) TOTAL DRY WT 334.01 3.66	015	(-:-) TOTAL NO. OF PLOTS 15		(X) 10 10 10		0F (=) LBS/ ACRE 222.67 2.44		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56	20.45% 0.22% 0.25% 0.75%
PLANT SPP SYM/TYPE 6,F,S,T SPAI SIHY SIHY	EC0	PHENO STAGE	1	GREEN WT ALL PLTS 165 1		(X) DRY WT ADJUST 0.39 0.34 0.30	***************************************	(X) PHENO ADJUST 3.27 6.79 4.42	NO	(-:-) PRECIP ADJUST 0.63 0.63 0.63	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(=) TOTAL DRY WT 334.01 3.66 4.21 12.22	(C)	(-;-) TOTAL NO. OF PLOTS 15 15		(X) 10 10 10 10		0F (=) LBS/ ACRE 222.67 2.44 2.81		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56 1088.56	7. COMP 20.46% 0.22% 0.26%
PLANT SPE SYM/TYPE 6,F,S,T SPAI SIHY SIHY SIHY	EC0	PHENO STAGE	1	GREEN WT ALL PLTS 165 1	G	(X) DRY WT ADJUST 0.39 0.30 0.43 0.44	***	(X) PHENO ADJUST 3.27 6.79 4.42 1.79 2.33	NO	(-:-) PRECIP ADJUST 0.63 0.63 0.63 0.63		(=) TOTAL DRY WT 334.01 3.66 4.21 12.22 4.88	(C)	(-;-) { TOTAL NO. OF PLOTS 15 15 15		(X) 10 10 10 10 10		0F (=) LBS/ ACRE 222.67 2.44 2.81 8.14		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56 1088.56	20.45% 0.22% 0.25% 0.75%
PLANT SPP SYM/TYPE G,F,S,T SPAI SIHY SIHY SIHY DIST CHNA	EC0	PHENO STAGE 2 1 2 4 2	1	GREEN WT ALL PLTS 165 1 2 10 3 94.25		(X) DRY WT ADJUST 0.39 0.34 0.30 0.43 0.44 0.29		(X) PHENO ADJUST 3.27 6.79 4.42 1.79 2.33 10.21	NO	(-:-) PRECIP ADJUST 0.63 0.63 0.63 0.63 0.63 0.63		(=) TOTAL DRY WT 334.01 3.66 4.21 12.22 4.88 442.96		(-;-) TOTAL NO. OF PLOTS 15 15 15 15 15		(X) 10 10 10 10 10 10		0F (=) LBS/ ACRE 222.67 2.44 2.81 8.14 3.25 295.31		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56 1088.56 1088.56 1088.56	7. COMP 20.46% 0.22% 0.26% 0.75% 0.30% 27.13%
PLANT SPP SYM/TYPE G,F,S,T SPAI SIHY SIHY SIHY DIST CHNA	EC0	PHENO STAGE	pend new man new man	GREEN WT ALL PLTS 165 1 2 10 3 94.25		(X) DRY WT ADJUST 0.39 0.34 0.30 0.43 0.44 0.29 0.37		(X) PHEND ADJUST 3.27 6.79 4.42 1.79 2.33 10.21 2.86	NO	(-:-) PRECIP ADJUST 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.6		(=) TOTAL DRY WT 334.01 3.66 4.21 12.22 4.88 442.96 92.38		(-:-) TOTAL NO. OF PLOTS 15 15 15 15 15 15		(X) 10 10 10 10 10 10 10		0F (=) LBS/ ACRE 222.67 2.44 2.81 8.14 3.25 295.31 61.59		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56	7. COMP 20.46% 0.22% 0.26% 0.75% 0.30% 27.13% 5.66%
PLANT SPP SYM/TYPE G,F,S,T SPAI SIHY SIHY SIHY DIST CHNA CHNA SAVE	EC0	PHENO STAGE	pend men nam nam men men men men nam nam nam nam nam nam nam nam nam na	GREEN WT ALL PLTS 165 1 2 10 3 74.25 55 4		(X) DRY WT ADJUST 0.39 0.34 0.30 0.43 0.44 0.29 0.37 0.35		(X) PHEND ADJUST 3.27 6.79 4.42 1.79 2.33 10.21 2.36 9.27	NO	(-:-) PRECIP ADJUST 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.6		(=) TOTAL DRY WT 334.01 3.66 4.21 12.22 4.88 442.96 92.38 20.60	(C)	(-:-) TOTAL NO. OF PLOTS 15 15 15 15 15 15 15 15		(X) 10 10 10 10 10 10 10		0F (=) LBS/ ACRE 222.67 2.44 2.81 8.14 3.25 295.31 61.59 13.73		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56	20.46% 0.22% 0.26% 0.75% 0.30% 27.13% 5.66%
PLANT SPP SYM/TYPE G,F,S,T SPAI SIHY SIHY SIHY DIST CHNA CHNA SAVE	EC0	PHENO STAGE 2 1 2 4 2 3 1 2	pend new man new man	GREEN WT ALL PLTS 165 1 2 10 3 94.25 55 4		(X) DRY WT ADJUST 0.39 0.34 0.30 0.43 0.44 0.29 0.37 0.35 0.20		(X) PHEND ADJUST 3.27 6.79 4.42 1.79 2.33 10.21 2.86 9.27 4.46	NO	(-:-) PRECIP ADJUST 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.6		(=) TOTAL DRY WT 334.01 3.66 4.21 12.22 4.88 442.96 92.38 20.60 76.46		(-;-) TOTAL NO. OF PLOTS 15 15 15 15 15 15 15 15		PAGE (X) 10 10 10 10 10 10 10 10 10 10 10 10 10		0F (=) LBS/ ACRE 222.67 2.44 2.81 8.14 3.25 295.31 61.59 13.73 50.97		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56	20.45% 0.22% 0.26% 0.75% 0.30% 27.13% 5.66% 1.26% 4.58%
PLANT SPP SYM/TYPE G,F,S,T SPAI SIHY SIHY DIST CHNA CHNA SAVE SAVE SAVE	EC0	PHENO STAGE 2 1 2 4 2 2 3 1 2 4	pend men nam nam men men men men nam nam nam nam nam nam nam nam nam na	GREEN WT ALL PLTS 165 1 2 10 3 94.25 55 4 448		(X) DRY WT ADJUST 0.39 0.34 0.30 0.43 0.44 0.29 0.35 0.20 0.20	X ((X) PHEND ADJUST 3.27 6.79 4.42 1.79 2.33 10.21 2.36 9.27 4.46 2.98	NO	(-:-) PRECIP ADJUST 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.6		(=) TOTAL DRY WT 334.01 3.66 4.21 12.22 4.88 442.96 92.38 20.60 76.46 423.82		(-;-) TOTAL NO. OF PLOTS 15 15 15 15 15 15 15 15		PAGE (X) 10 10 10 10 10 10 10 10 10 10 10 10 10		0F (=) LBS/ ACRE 222.67 2.44 2.81 8.14 3.25 295.31 61.59 13.73 50.97 282.55		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56	20.46% 0.22% 0.26% 0.75% 0.30% 27.13% 5.66% 1.26% 4.58% 25.96%
PLANT SPP SYM/TYPE G,F,S,T SPAI SIHY SIHY SIHY DIST CHNA CHNA SAVE SAVE SAVE SAVE	EC0	PHENO STAGE 2 1 2 4 2 2 3 1 2 4 1	pend new name and n	GREEN WT ALL PLTS 165 1 2 10 3 94.25 55 4 448 11		(X) DRY WT ADJUST 0.39 0.34 0.30 0.43 0.44 0.29 0.37 0.35 0.20 0.20 0.31	X ((X) PHEND ADJUST 3.27 6.79 4.42 1.79 2.33 10.21 2.36 9.27 4.46 2.98 19.19	NO	(-:-) PRECIP ADJUST 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.6		(=) TOTAL DRY WT 334.01 3.66 4.21 12.22 4.88 442.96 92.38 20.60 76.46 423.82 103.87		(-;-) ; TOTAL NO. ; OF PLOTS ; 15 ; 15 ; 15 ; 15 ; 15 ; 15 ; 15 ; 15		10 10 10 10 10 10 10 10 10 10		0F (=) LBS/ ACRE 222.67 2.44 2.81 8.14 3.25 295.31 61.59 13.73 50.97 282.55 69.25		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56	20.46% 0.22% 0.26% 0.75% 0.30% 27.13% 5.66% 1.26% 4.68% 25.96% 6.36%
PLANT SPP SYM/TYPE G,F,S,T SPAI SIHY SIHY DIST CHNA CHNA SAVE SAVE SAVE	EC0	PHENO STAGE 2 1 2 4 2 2 3 1 2 4	pend men nam nam men men men men nam nam nam nam men	GREEN WT ALL PLTS 165 1 2 10 3 94.25 55 4 448		(X) DRY WT ADJUST 0.39 0.34 0.30 0.43 0.44 0.29 0.35 0.20 0.20	X ((X) PHEND ADJUST 3.27 6.79 4.42 1.79 2.33 10.21 2.36 9.27 4.46 2.98	NO	(-:-) PRECIP ADJUST 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.6		(=) TOTAL DRY WT 334.01 3.66 4.21 12.22 4.88 442.96 92.38 20.60 76.46 423.82		(-;-) TOTAL NO. OF PLOTS 15 15 15 15 15 15 15 15		PAGE (X) 10 10 10 10 10 10 10 10 10 10 10 10 10		0F (=) LBS/ ACRE 222.67 2.44 2.81 8.14 3.25 295.31 61.59 13.73 50.97 282.55 69.25		(-:-) TOTAL WT ALL PLOTS 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56 1088.56	20.46% 0.22% 0.26% 0.75% 0.30% 27.13% 5.66% 1.26% 4.58% 25.96%

1632.84 :

1 1088.56 | 1 100.00%

TOTAL FOR

1

927.25

Date Established: 10/78

Authors: CP/HA

MLRA: 28B

Saline Bottom 028BY004NV SAVE4/ELCI2-SPAI

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

NEVADA
Range Site Description

A. PHYSICAL CHARACTERISTICS

1. PHYSIOGRAPHIC FACTORS

This site occurs on lake-plain terraces, stream terraces and on the margins of axial-stream floodplains. Slopes range from 0 to 8 percent, but slope gradients of 0 to 2 percent are most typical. Elevations are 5300 to 6200 feet.

Harris III and the state of the

2. CLIMATIC FACTORS

Average annual precipitation is 8 to 12 inches. Mean annual air temperature is 45 to 50 degrees F. The average growing season is 100 to 120 days.

Light the second of the second

3. SOIL FACTORS

The soils in this site are usually deep to very deep and calcareous. Surface soils are less than 10 inches thick and are medium to moderately coarse textured. These soils are normally strongly salt and sodium-affected in their upper profile with soil reaction and salinity usually decreasing with depth. They are mostly somewhat-poorly to poorly drained and have a seasonally high water table at depths of 20 to 60 inches. Additional moisture is received on this site during the winter and spring months as run-in from higher landscapes or by occasional brief overflow from adjacent streams. Wetting of these soils dilutes their salt and sodium concentrations and the degree of salinity and alkalinity may fluctuate throughout the year. Capillary recharge of salt and sodium from the water table is common. These strongly alkaline soils are poorly aerated and are slowly to moderately-slowly permeable. Seed viability, germination and available water holding capacity is reduced due to the saline condition of these soils. The surface layer of these soils will crust and bake upon drying, inhibiting water infiltration and seedling emergence. Runoff is slow to very slow and ponding occurs in some areas. Potential for sheet and rill erosion is slight.

For a listing of soils correlated to this range site and representative soil taxon see Appendix II.

4. VEGETATION FACTORS

a. Potential Native Vegetation

The plant community is dominated by basin wildrye. Alkali sacaton and inland saltgrass are other important species associated with this site. Although black greasewood is prevalent, grasses dominate the aspect.

Potential vegetative composition is about 80% grasses and grass-likes, 5% forbs and 15% shrubs.

b. Major plant species and percentages of the total community by air-dry weight:

				PERCENT
PLANT				BY WEIGHT
SYMBOL	COMMON	NAME	•	(AIR-DRY)
21202	 V 0111.01.		-	(11211 2112)

Grasses and Grass-Like Plants

ing i i i se in Diamaganaga

ELCI2	basin wildrye	30-60
SPAI	alkali sacaton	30-40
DISPS2	inland saltgrass	2-5
AGSM	western wheatgrass	2-5
PPGG	other perennial grasses	5-15**
SPGR	alkali cordgrass	
POJU	alkali bluegrass	
JUBA	Ealtic rush	

**Allow no more than 3% of each species of this group and no more than 15% in aggregate.

Forbs

PPF	F perennia	al forbs	2-8**
I		tyweed	
T	HELY thely	*	
A	STRA milkve	etch	

**Allow no more than 2% of each species of this group and no more than 8% in aggregate.

Shrubs

SAVE4	black greasewood	5-15
CHNA2	rubber rabbitbrush	2-5
SSSS	other shrubs	2-8**
ATCO	shadscale	
CHATO	alkali rahhithrush	

**Allow no more than 2% of each species of this group and no more than 8% in aggregate.

4. VEGETATION FACTORS (continued)

- c. Approximate ground cover (basal and crown) is 15 to 30 percent.
- d. Total annual air-dry production:

LES/AC
2200
1500
800

e. Plant community dynamics

Where management results in abusive livestock use, black greasewood and rubber rabbitbrush increase, while basin wildrye and alkali sacaton decrease. With further site degradation, rubber rabbitbrush typically becomes the dominant species.

5. ASSOCIATED AND COMPETING SITES

a. Principal sites that commonly occur in association with this potential plant community include:

(028BY081NV) Moist Floodplain (028BY041NV) Dry Floodplain (028BY069NV) Sodic Flat 8-10" P.Z. (028BY002NV) Dry Saline Meadow (028BY050NV) Wet Sodic Eottom (028BY012NV) Wet Saline Meadow

b. Competing sites (and their differentiae) that are similar to this potential plant community:

(C28EYCO3NV) Loamy Bottom 10-14" P.Z.

[Less ELCI2 and PONE3 codominant grass; ARTRT dominant shrub; more productive]

(028EY041NV) Dry Floodplain

[AGSM codominant grass; ARTRT dominant shrub]

(C28BYO81NV) Moist Floodplain

[ELCI2 or ELTR3 dominant and PONE3 and CAREX codominant grass or grass-like; SALIX dominant shrub; more productive]

(O28BYO28NV) Sodic Terrace 8-10" P.Z.

(O28BYO28NV) Sodic Terrace 8-10" P.Z.
[Less ELCI2 and ORHY codominant grass; more SAVE4 and ARTRT or ARTRW codominant shrubs]

B. INTERPRETATIONS FOR MAJOR USES

1. LIVESTOCK GRAZING

- a. This site is suitable for use by livestock during the late spring, summer, fall and winter. Grazing management should be keyed to alkali sacaton and basin wildrye phenology and production. To obtain the maximum use of alkali sacaton, it should be grazed during the growing season, because the foliage becomes coarse, tough, and unpalatable as it matures. Easin wildrye can be grazed early in the spring until coarse and tough. However, basin wildrye can not tolerate yearly continuous early grazing. If left standing, basin wildrye provides considerable winter feed to livestock and horses. Allow for ample seed production during the grazing cycle.
- b. Stocking rates vary with such factors as kind and class of grazing animal, season of use and fluctuations in climate. Actual use records for individual sites, a determination of the degree to which the sites have been grazed, and an evaluation of trend in site condition offer the most reliable basis for developing initial stocking rates.

Selection of initial stocking rates for given grazing units is a planning decision. This decision should be made ONLY after careful consideration of the total resources available, evaluation of alternatives for use and treatment, and establishment of objectives by the decisionmaker.

2. WOOD PRODUCTS

No known potential.

3. WILDLIFE VALUES

This site is frequented by rabbits, coyotes, songbirds, hawks, eagles and various rodents. Waterfowl may nest on the site when it is adjacent to reservoirs, springs or ponded marsh-like areas.

4. WATERSHED VALUES

The hydrologic cover condition of this site is fair for representative stands in good and excellent range condition. Hydrologic cover condition will often vary with range condition class. The average runoff curve is about 79 for group C soils and about 84 for group D soils. (See Section 4, SCS National Engineering Handbook runoff quantities and hydrologic curves.)

- B. INTERPRETATIONS FOR MAJOR USES (continued)
 - 5. RECREATION AND NATURAL BEAUTY

Aesthetic value is derived from the lush verdure of native grasses in the spring and early summer on this site. Nature study and photography have recreational potential.

6. THREATENED OR ENDANGERED SPECIES

None known at present.

APPENDIX I

Ref	er	ence	e Da	ta
Ref	er	ence	e Da	ta

1. Site Documentation (number and kind of site inventory records).

SCS-ECS-5 SCS-RANGE-417 Other

NV-ECS-1 NV-4400-13 (BLM)

- 2. Distribution and extent. Elko and White Pine Counties.
- 3. Location of typical example of this site.

Approved by:

STATE/RANGE CONSERV SCS NEVADA CONSERVATIONIST

1988 JUN

Date approved:

APPENDIX II

1. Soil taxonomic unit representative of this site:

SSA Soil Taxon Classification

- 2. Type location for soil taxonomic unit representative of this site:
- 3. Listing of soils correlated to this site:

SSA Soil Taxon Taxonomic Classification

3	F. Commercial Commerci	<u> </u>	Weigin		BITTERO OF LAND MANAGEMENT
		Dresent	٠,	200	ECOLOGICAL STATUS WRITE-UP
		88	4	OMO	
S	pecies Name or Symbol	D	* * *	01/0m0/10	(1) Allotment: North Butte Valley (2) Examiner(s): Lister
Γ	ELC12	28	70-80	28	(2) Examiner(s): LISTUR
	PONE3	20	15-10		(3) Write - up no. LOOS (SM) NG)
-	PPU-C-		2-8		(4) Man unit no
+	AGSM		Z		(5) Ecological Site: LOAMY BOTTOM 10-14
-	CAREX		Z		(6) Date: Sept. 19, 1983
-	JUBA		12		(7) Quad or Phto, no.
	MURI	10	12	Z	(8) Soil series :
%		10 T	1	T	
Grass	SI HY				REMARKS: plant vigor; animal signs (hedging, terracing, droppings, etc.); severe erosion signs; % surface rock; burned/unburned; seedlings; seeded; PJ invasion; etc.
-					
-			1		
+					
	PPFF		12-8		
٦, ٢	AAFF	T	12	T	
	ORTHO	1		1	*
Forbs	SKAEDA	1		1	(9) SSF
					SM (14)
			1	-	SL (14)
					SR (14)
					P (14)
					FP (15)
		,			R . (14)
V 100-4-0130000					G (15)
	,				TOTAL
					(IO) Veg. aspect:
					(11) Slope aspect:
					(12) % Slope:
					(13) % Rock outcrop:
%	ARTIZT		15-10		(12) % Slope:
Shrubs	SSSS		15-10		(15) Gr - F - S canopy cover:
8	CHNA		3		(16) Tree canopy cover:
Trees	CHVIS	56		3	(17) % of SWA:
-	ATRIP SP	4		3	(18) Elevation:
-	7711-11 21				(19) Final SWA no.:
-					(20) Stratum no.:
-					(21) Key management area no.:
-					
L			!		(22) Ecological Status:

	{	CALCULATI	ED B	Y LIS	STER		ALLOT	NO.	4308		KEY AREA	NO.	L005			DATE	SE	PT. 19,	198	3				
													NO. OF PL								i			
PLANT SPF	 -					1	{X}	}	(X)) 1	{-:-}	1	(=)		{-	 ;-)		(X)		{=}	1 1	{-;-}	·	{=}
SYM/TYPE	1	PHENO	1	GREEN	HT.	i	DRY WT	1	PHENO	1	PRECIP	!	TOTAL		TOTAL	100000		10	1	LBS/		TOTAL WT		7
6,F,S,T	1	STAGE	;	ALL P	LTS	1	ADJUST	I	ADJUST	1	ADJUST	1	DRY WT		OF PI		1		i	ACRE		ALL PLOTS		COMP
ELCI2	1	ě	5 !		174	 ¦	0.54		1.15	!	1.73	1	74.03	1		10		10	;	74.03	!	261.69	1	28.25
MURI	1		1	4	6.3	1	0.71	;	1.41	1	1.73	1	26.79	1		10	I	10	1	26.79	1		1	10.24
SIHY	1	ě	5 !		1	i	0.79	1	1.51	1	1.73	1	0.69	1		10	1	10	1	0.69		261.69	1	0.26
AAFF	1	É	; ;		1	1	0.63	1	1.30	1	1.73		0.47			10	1	10	-			261.69		0.18
ORTHO	1	E	5 ;		7	1	0.42	1 1	1.45	1	1.73		2.46			10	1	10		2.46	0.50	261.69	1	0.94
SUAEDA	1	1	5 1		1	1	0.26	!	1.00	1	1.73		0.15			10	1	10		0.15		261.69		0.06
SUAEDA	1		5 1	2	2	1	0.55	1	1.07	1	1.73	1	0.68	ì		10	1	10		0.68		261.69		0.28
CHV18	:		5 1		224	1	0.79		1.44	1	1.73	1	147.30	1		10	1	10	1	147.30	1	261.69	1	-56.29
ATRIP	1		5 1		22	1	0.64		1.12	1		3	9.12	1		10	1	10			!		1	3.48
	1		1			;		1		1		1		1		-	1	•	1		1		1	357
TOTAL FOR	?		 !			 l																		
ALL PLOTS	3		!	47	78.3	;						i	261.69	1					1	261.69	3		3	100.00

WEIGHT-ESTIMATE TRANSECT DATA SHEET

	t	CALCULATE	ED 8'	Y HENKLI	EIN	A	LLOT	NO.	4308		KEY AREA	NO.	L005			DATE	JUI	VE 16, 19	88					
	EC	OLOGICAL	SIT	E LOAMY	BOTT	OM (2	8B X	003)	SPRING	PA	STURE		NO. OF PL	.OTS	15			PAGE	i	OF	1			
PLANT SPE SYM/TYPE S,F,S,T		PHENO STAGE		GREEN I		DRY ADJ		1 1 1	(X) PHENO ADJUST	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	(-:-) PRECIP ADJUST	1 1 1	(=) TOTAL DRY WT	- 0	TOTA	:-) AL NO. PLOTS	i	(X) 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(=) LBS/ ACRE		(-:-) TOTAL WT ALL PLOTS		(=) % COMP
LCI2	1			2	79		0.31	;		}	0.63		2634.51	1		15	1	10	1	1756.34	1	3715.21	ŀ	47.27
ENST CHNA	- !		l i 2 ¦	25	1 : 58 :		0.18 0.29	i	4.44 10.21	1	0.63 0.63	1	1.27 1212.56	1		15 15	1 1	10 10	1	0.85 808.37	1	3715.21 3715.21	1	0.03 21.7
AVE RTRT	1 1		2 1	-	47 97		0.20	1	4.46 15.16	1 1	0.63	1	349.72 1374.75			15 15	1	10 10	1	233.15	1	3715.21 3715.21	1 1	6.20 24.60
	- 1		1		1			1		i		i		1			ļ		ł		ì		3	
OTAL FOR	7		1																					
ALL PLOTS	3		;	91	32							3	5572.81	1					1	3715.21	}		3	100.00

Date Established: 6/79

Authors: CP/HA

MLRA: 28B

Loamy Bottom 10-14" P.Z. 028BY003NV ARTRT/ELCI2

UNITED STATES DEPARTMENT OF AGRICULTURE SCIL CONSERVATION SERVICE

NEVADA Range Site Description

A. PHYSICAL CHARACTERISTICS

1. PHYSIOGRAPHIC FACTORS

This site occurs on axial-stream floodplains and inset fans. Slopes range from 0 to 8 percent, but slope gradients of 0 to 4 percent are most typical. Elevations are 6000 to 7000 feet.

2. CLIMATIC FACTORS

Average annual precipitation is 9 to 14 inches. Mean annual air temperature is 45 to 50 degrees F. The average growing season is 100 to 120 days.

3. SOIL FACTORS

The soils in this site are deep, well drained and derived from mixed alluvium. Permeability is moderate to moderately rapid with moderate available water holding capacity. Some soils have a seasonally high water table at depths of 30 to 60 inches which allows for significant fluctuations in herbage production. Moisture is also added from stream overflow and overland flow from higher landscapes. In some areas, this site occurs where a stream channel has entrenched and a Wet Meadow 14"+ P.Z. (028BY022NV) has deteriorated as a result of a lowered water table. These soils are susceptible to gullying which intercepts normal overflow patterns causing site degradation.

For a listing of soils correlated to this range site and representative soil taxon see Appendix II.

4. VEGETATION FACTORS

a. Potential Native Vegetation

The plant community is dominated by basin wildrye. Although big sagebrush is prevalent, grasses dominate the aspect.

Potential vegetative composition is about 85% grasses and grass-likes, 5% forbs and 10% shrubs.

4. VEGETATION FACTORS (continued)

b. Major plant species and percentages of the total community by air-dry weight:

		PERCENT
PLANT		BY WEIGHT
SYMBOL	COMMON NAME	(AIR-DRY)
		(***==**

Grasses and Grass-Like Plants

ELCI2	basin wildrye	70-80
PONE3	Nevada bluegrass	5-10
PPGG AGSM	other perennial grasses western wheatgrass	2-8**
CAREX	sedge	
JUBA	Baltic rush	
MURI	mat muhly	

^{**}Allow no more than 2% of each species of this group and no more than 8% in aggregate.

Forbs

PPFF perennial forbs 2-8**

Shrubs

ARTRT SSSS	basin big sagebrush	5-10
	other shrubs	5-1C**
CHNA2	rubber rabbitbrush	

^{**}Allow no more than 3% of each species of this group and no more than 10% in aggregate.

- c. Approximate ground cover (basal and crown) is 30 to 50 percent.
- d. Total annual air-dry production:

	LBS/AC
Favorable years	5000
Normal years	2500
Unfavorable years	1500

^{**}Allow no more than 2% of each species of this group and no more than 8% in aggregate.

4. VEGETATION FACTORS (continued)

e. Plant community dynamics

Where management results in abusive livestock use, basin big sagebrush and rabbitbrush become dominant, and basin wildrye and Nevada bluegrass decrease. With further site degradation, rubber rabbitbrush becomes the dominant plant. Species most likely to invade this site are cheatgrass, annual mustards and thistle.

5. ASSOCIATED AND COMPETING SITES

a. Principal sites that commonly occur in association with this potential plant community include:

(028BY001NV) Wet Meadow 10-14" P.Z. (028BY010NV) Loamy 8-10" P.Z. (028BY045NV) Loamy Fan 8-12" P.Z. (028BY041NV) Dry Floodplain (028BY081NV) Moist Floodplain (028BY007NV) Loamy 10-12" P.Z.

b. Competing sites (and their differentiae) that are similar to this potential plant community:

(C28EYO45NV) Loamy Fan 8-12" P.Z.

[ELCI2 dominant and CRHY and AGDA codominant grasses; ARTRW; less productive

(C28EYO41NV) Dry Floodplain

[Less ELCI2; CHNA2 and SAVE4 codominant shrubs; less productive]

(C28EYOC4NV) Saline Bottom

[Less ELCI2 and SPAI codominant grass; SAVE4 dominant shrub; less productive]

B. INTERPRETATIONS FOR MAJOR USES

1. LIVESTOCK GRAZING

- a. This site is suitable for livestock use during the late spring, summer and fall. Care should be taken to avoid use too early in the spring when the soils are wet or saturated. Grazing management should be keyed to basin wildrye phenology and production. Basin wildrye can not tolerate continuous early grazing year after year. Allow for ample seed production during the grazing cycle.
- b. Stocking rates vary with such factors as kind and class of grazing animal, season of use and fluctuations in climate. Actual use records for individual sites, a determination of the degree to which the sites have been grazed, and an evaluation of trend in site condition offer the most reliable basis for developing initial stocking rates.

B. INTERPRETATIONS FOR MAJOR USES (continued)

1. LIVESTOCK GRAZING (continued)

Selection of initial stocking rates for given grazing units is a planning decision. This decision should be made CNLY after careful consideration of the total resources available, evaluation of alternatives for use and treatment, and establishment of objectives by the decisionmaker.

2. WOOD PRODUCTS

No known potential.

3. WILDLIFE VALUES

This site provides good cover and forage to wildlife. Deer use this site during the spring and summer. Other upland game animals such as rabbits, dove, quail, chukar and Hungarian partridge use this site. The site is used by various song birds, rodents, reptiles and associated predators natural to the area. Feral horses also make use of this site.

4. WATERSHED VALUES

The hydrologic cover condition of this site is poor for representative stands in good and excellent range condition. Hydrologic cover condition will often vary with range condition class. The average runoff curve is about 79 for group E soils and about 86 for group C soils. (See Section 4, SCS National Engineering Handbook runoff quantities and hydrologic curves.)

5. RECREATION AND NATURAL BEAUTY

Aesthetic value is derived from the lush verdure of native grasses in the spring and early summer on this site. This site has the potential for deer, antelope and upland game hunting. Nature study and photography also have recreational potential.

6. THREATENED OR ENDANGERED SPECIES

None known at present.

APPENDIX I

Ref	er	ence	Data

1. Site Documentation (number and kind of site inventory records).

SCS-ECS-5 SCS-RANGE-417 Other

NV-ECS-1 NV-4400-13 (ELM)

- 2. Distribution and extent. White Pine County.
- 3. Location of typical example of this site.

JUN

STATE RANGE CONSERVATIONIST

SCS NEVALA

Date approved:

APPENDIX II

1. Soil taxonomic unit representative of this site:

			Taxonomic
SSA	Soil	Taxon	Classification

- 2. Type location for soil taxonomic unit representative of this site:
- 3. Listing of soils correlated to this site:

SSA Soil Taxon Classification

```
INDICATE THE TYPE OF DATA TO BE ENTERED
  E TYPING:
             1 - FOR FREQUENCY AND/OR COVER DATA
             2 - FOR DENSITY DATA
 DO YOU WANT TO UPDATE THE DATA BASE? (YES, NO OR NEW)
 = 40
  ENTER NAME OF DATA BASE FILE
  =A214/DB430888
  DO YOU WANT TO PRINT THE DATA BASE(YES OR NO)?
 = NO
  ENTER PERCENT LEVEL OF SIGNIFICANCE(5 OR 10)
 ENTER KEY AREA NUMBER:
  IF ALL KEY AREAS IN ALLOTMENT, ENTER 'ALL'
 ENTER 'F' FOR FREQUENCY ANALYSIS: 'C' FOR COVER.
 =F
 DO YOU WANT THE DETAILED STATISTICAL PRINTOUT? (YES OR NO)
 = 140
  IF YOU WANT THE OUTPUT TO GO TO A PERM FILE, ENTER FILE NAME;
  ELSE ENTER 'NO'
 = NO
-BLM ADMIN UNIT NV015804 ; WILDLIFE
  ALLOTMENT 4308 ; PASTURE S. ; KEY LOO3
 PLANT SPECIES SPALT
 TWO-WAY ANOVA RESULTS
 THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL
 YEAR
                 NON-SIGNIFICANT GROUPINGS
          MEANS
   83
          25.00
          19.50
    88
 BLM ADMIN UNIT NV015804 ; WILDLIFE ALLOTMENT 4308 ; PASTURE S. ; KEY L003
PLANT SPECIES ELTR3
-TWO-WAY-ANOVA- RESULTS
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL
 YEAR
          MEANS
                  -NON-SIGNIFICANT GROUPINGS
   88
          42.00
    83
          37:50
- ONE-WAY ANOVA RESULTS
 THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL
 YEAR
          MEANS
                  NON-SIGNIFICANT GROUPINGS
          42.00
   88
   -83
          37.50
BLM ADMIN UNIT NV015804 ; WILDLIFE
                                          BIG GAME
 ALLOTHENT 4308 ; PASTURE S. ; KEY LOO3
-PLANT-SPECIES JUBA-
- TWO-WAY-ANOVA-RESULTS
-THERE-IS-NO-SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL
-YEAR-
         MEANS - NON-SIGNIFICANT GROUPINGS
   83
         32.00 ±
         -27.00
   88
```

BLM ADMIN UNIT MV015804 ;WILDLIFE ;RIG GAME ALLOTMENT (308 ;PASTURE S. ;KEY L003 PLANT SPECIES DIST	
TWO-WAY ANOVA RESULTS	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS 98 38.00 ±	
83 38.00 *	
BLM ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE S. ; KEY LOOS PLANT SPECIES SIHY	•
TWO-WAY ANOVA-RESULTS	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	1
TEAK HEARS NUM-SIGNIE ICANI GROUPINGS	
88 9.50 *	
ONE-WAY-ANOVA RESULTS	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS 88 9.50 *	
ALLOTHENT 4308 ; PASTURE S. ; KEY LOOS ; PLANT-SPECIES AAFF; DATA-ONLY-FOR-YEAR 83	
BLM ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTHENT 4308 ; PASTURE S. ; KEY L003 ;	
PLANT SPECIES DESO	
DATA ONLY FOR YEAR 83	
BLM ADMIN UNIT NVOISSO4 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE S. ; KEY LOO3; F PLANT SPECIES SUED ;	
DATA ONLY FOR YEAR 83	
BLM ADMIN UNIT NV015804 ;WILDLIFE ;BIG GAME ALLOTMENT 4308 ;PASTURE S. ;KEY L003 } PLANT SPECIES CHAA }	
TWO-WAY AMOUA RESULTS	
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL	
-YEAR MEANS NON-SIGNIFICANT GROUPINGS 88 44.50 83 21.00	
83 21.00	

ALLOTMENT 4398 ; PASTURE S. ; KEY LOO3	
PLANT SPECIES SAVE4	
TWO-WAY ANOVA RESULTS	
THERE-IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	
VELIA TIQUE A TALUE A PALIA TIDA	
YEAR MEANS NON-SIGNIFICANT GROUPINGS 88 30.50 *	
83 24.00 x	
BLH ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE S. ; KEY LOO3	
PLANT SPECIES SPAI	F. D. SANS
DATA ONLY FOR YEAR 88	
DATA UNEL FOR TEHR 60	
BEH ADMIN-UNIT-NV015804-; WILDLIFE ; BIG GAME	
ALLOIMENT 4308 PASTURE S. KEY LOO3/	
PLANT SPECIES AGDA!	
DATA ONLY FOR YEAR 88	
BLM ADMIN UNIT NVOIS804 ; WILDLIFE ; BIG GAME	
ALLOTMENT 4308 ; PASTURE S. ; KEY 1003 1	
The state of the s	
DATA-ONLY-FOR-YEAR 88	
The wing have been specially and the second special second	
BLM ADMIN-UNIT NV015804; WILDLIFE; BIG GAME	
ALLOTHENT 4308 : PASTURE S. ; KEY LOO3	-
PLANT SPECIES CHIE	
DATA-ONLY FOR-YEAR 88	
	
BLM-ADMIN-UNIT-NV015804-;WILDLIFE ;BIG GAME ALLOTMENT 4308 ;PASTURE N. ;KEY LOO4;	
PLANT SPECIES SPAI	
TWO-WAY-ANOVA-RESULTS	Mark Street, Str. or Market
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
83 62.00 *	
88 60.50 1	
ALLUTHENT 4308 ; PASTURE N. ; KEY LOO4	
PLANT SPECIES DIST	
TWO-WAY ANOVA RESULTS	
AND WILL INIOTA REGULEO	
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
88 20.00	
83 13:50	

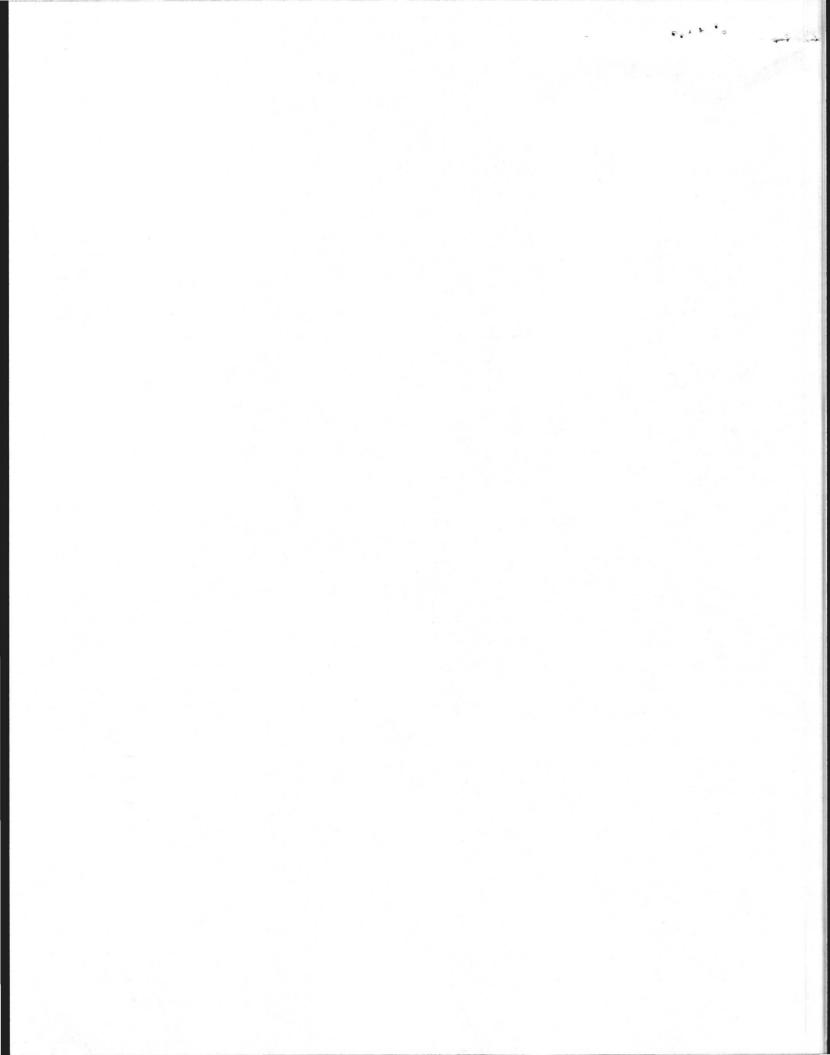
ALLOTHERT 4308 ; PASTURE N. ; KEY LOO4 PLANT SPECIES ELCI2	
-TWO-WAY-ANOVA-RESULTS	•
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	<u> </u>
YEAR MEANS NON-SIGNIFICANT GROUPINGS 83 16.50 ±	
88 12.50 *	Jack of
	1/8 -
RLM-ADMIN UNIT NVOISSO4 ; WILDLIFE ; BIG GAME ALLOTHENT 4308 ; PASTURE N. ; KEY LOO4 ;	
PLANT-SPECIES-SIHY:	
TWO-WAY ANOVA RESULTS	
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL	. ,
	- Caller
	- CO Afri.
YEAR MEANS NON-SIGNIFICANT GROUPINGS	457030
88 30.00 83 13.50	·//
BLH ADMIN UNIT NV015804 ; WILDLIFE GROW ; BIG GAME	0-0 /
ALLOTHENT 4308 ; PASTURE N. ; KEY LOO4 74	
PLANT SPECIES ORHY	
TWO-WAY ANOVA RESULTS	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS 83 1.50 *	
88 1.00 x	
ONE-WAY ANGUA RESULIS	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
83 1.50 * 88 1.00 *	
BLM ADMIN UNIT NV015804 ;WILDLIFE ;BIG GAME	
ALLOTHENT 4308 ; PASTURE N. ; KEY LOO4 }	
DATA ONLY FOR YEAR 83	
DATA ORD. TOW. IMIN. GO	
BLM ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTHENT 4308 ; PASTURE N. ; KEY LOO4	
PLANT SPECIES DESO	
DATA ONLY FOR YEAR 83	
BLM ADMIN UNIT NVOISBO4; WILDLIFE ;BIG GAME	
ALLOTHENT 4308 ; PASTURE N. ; KEY LOO4	
TWO-WAY ANOVA RESULTS	
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
88 44.50 83 18.00	

THERE-IS-NO-SIGNIFICANT DIFFERENCE BETWEEN-YEARS AT THE 0.05 LEVEL -YEAR HEANS NON-SIGNIFICANT GROUPINGS 33 32.30 A 88 31.00 A -ELH-ADMIN UNIT HOUISSON WILDLIFE -IS IG GAME ALLOTRANT 4308 : PASTURE N. NEY LOOM -FLANT-SPECIES ARTE: -TUO-NAY-ANOVA RESULTS -THERE-IS-NO-SIGNIFICANT DIFFERENCE-BETWEEN-YEARS AT THE 0.05 LEVEL -YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 3.50 A 98 3.50 A 98 3.50 A 98 3.50 A 98 3.50 A BLIT ADMIN UNIT HOUISSON WILDLIFE ALLOTRANT 4308 : PASTURE N. NEY LOOM FLANT SPECIES EAST	ALLOTHENT 4308 : PASTURE N. ; KEY LOO4 PLANT SPECIES SAVEA.	
THERE-IS-NO-SIGNIFICANT DIFFERENCE BETWEEN-YEARS AT THE 0.05 LEVEL -YEAR HEANS NON-SIGNIFICANT GROUPINGS 33 32.30 A 88 31.00 A -ELH-ADMIN UNIT HOUISSON WILDLIFE -IS IG GAME ALLOTRANT 4308 : PASTURE N. NEY LOOM -FLANT-SPECIES ARTE: -TUO-NAY-ANOVA RESULTS -THERE-IS-NO-SIGNIFICANT DIFFERENCE-BETWEEN-YEARS AT THE 0.05 LEVEL -YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 3.50 A 98 3.50 A 98 3.50 A 98 3.50 A 98 3.50 A BLIT ADMIN UNIT HOUISSON WILDLIFE ALLOTRANT 4308 : PASTURE N. NEY LOOM FLANT SPECIES EAST		Minut Printer and the State of
THERE-IS-NO-SIGNIFICANT DIFFERENCE BETWEEN-YEARS AT THE 0.05 LEVEL -YEAR HEANS NON-SIGNIFICANT GROUPINGS 33 32.30 A 88 31.00 A -ELH-ADMIN UNIT HOUISSON WILDLIFE -IS IG GAME ALLOTRANT 4308 : PASTURE N. NEY LOOM -FLANT-SPECIES ARTE: -TUO-NAY-ANOVA RESULTS -THERE-IS-NO-SIGNIFICANT DIFFERENCE-BETWEEN-YEARS AT THE 0.05 LEVEL -YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 3.50 A 98 3.50 A 98 3.50 A 98 3.50 A 98 3.50 A BLIT ADMIN UNIT HOUISSON WILDLIFE ALLOTRANT 4308 : PASTURE N. NEY LOOM FLANT SPECIES EAST		
YEAR HEANS HON-SIGNIFICANT GROUPINGS 33 32.50 A 88 31.00 A BEH ADMIN UNIT HVOUSSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE N. ; KEY 1004 PLANT SPECIES ARTH THO-WAY ANDWA ESULTS THERE-IS-NO SIGNIFICANT DEFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL YEAR HEANS HON-SIGNIFICANT GROUPINGS 88 3.50 A 88 3.50 A 88 3.50 A 88 9.30 A BEH ADMIN UNIT NVOISSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE N. ; KEY 1004 PLANT SPECIES SEAT] DATA-ONLY FOR YEAR 88 BEH ADMIN UNIT NVOISSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE N. ; KEY 1004 PLANT SPECIES CHTE BATA-ONLY FOR YEAR 88 BEH ADMIN UNIT NVOISSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE S. ; KEY 1005 PLANT SPECIES CHTE BATA-ONLY FOR YEAR 88 BEH ADMIN UNIT NVOISSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE S. ; KEY 1005 PLANT SPECIES ELOIZ THERE-IS-A SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.0S LEVEL YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 43.50 88 43.50 89 35.50 80 35.50 81 43.50 81 43.50 82 43.50 83 43.50 84 43.50 85 43.50 85 43.50 86 43.50 87 85 85 85 85 85 85 85 85 85 165 1005 86 44.50 87 85 85 85 85 85 85 85 85 85 85 165 1005 86 45 85 85 85 85 85 85 85 85 85 85 85 85 85	-TWO-WAY-ANOVA RESULTS	
YEAR HEANS HON-SIGNIFICANT GROUPINGS 33 32.50 A 88 31.00 A BEH ADMIN UNIT HVOUSSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE N. ; KEY 1004 PLANT SPECIES ARTH THO-WAY ANDWA ESULTS THERE-IS-NO SIGNIFICANT DEFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL YEAR HEANS HON-SIGNIFICANT GROUPINGS 88 3.50 A 88 3.50 A 88 3.50 A 88 9.30 A BEH ADMIN UNIT NVOISSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE N. ; KEY 1004 PLANT SPECIES SEAT] DATA-ONLY FOR YEAR 88 BEH ADMIN UNIT NVOISSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE N. ; KEY 1004 PLANT SPECIES CHTE BATA-ONLY FOR YEAR 88 BEH ADMIN UNIT NVOISSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE S. ; KEY 1005 PLANT SPECIES CHTE BATA-ONLY FOR YEAR 88 BEH ADMIN UNIT NVOISSO4 ; UILDLIES \$BIG GAME ALLOTHENT 4309 ; PASTURE S. ; KEY 1005 PLANT SPECIES ELOIZ THERE-IS-A SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.0S LEVEL YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 43.50 88 43.50 89 35.50 80 35.50 81 43.50 81 43.50 82 43.50 83 43.50 84 43.50 85 43.50 85 43.50 86 43.50 87 85 85 85 85 85 85 85 85 85 165 1005 86 44.50 87 85 85 85 85 85 85 85 85 85 85 165 1005 86 45 85 85 85 85 85 85 85 85 85 85 85 85 85	THERE-IS-NO-SIGNIFICANT-DIFFERENCE-BETWEEN-YEARS AT-THE-0.05-LEVEL	
BS 31.00 A BB 31.		
BLH ADMIN UNIT HVOISSO4 ; WILDLIFE -BLH ADMIN UNIT HVOISSO4 ; WIEV LOOA FUNANT-SPECIES ARXIT -TUO-MAY ANDVA- RESULTS -THERE-IS-NO SIGNIFICANT-DIFFERENCE-BETWEEN YEARS AT THE O.OS LEVEL YEAR MEANS HON-SIGNIFICANT-GROUPINGS 83	83 32.50 *	
ALLOTHENT 4309 [PASTURE N. ; KEY 1004] PLANT SPECIES FARTI. THO—HAY—ANDVA—RESULTS THERE—IS—NO SIGNIFICANT—DIFFERENCE—BETWEEN YEARS AT—THE 0.05 LEVEL YEAR — MEANS—NON—SIGNIFICANT—GROUPINGS 88 3.50 Å 83 3.50 Å BLH—ADMIN-UNIT NVOISSO4 ; WILDLIFE	88 31:00 *	
ALLOTHENT 4309 : PASTURE N. : KEY 1004 PLANT SPECIES ARKIT TWO-WAY-ANOVA-RESULTS THERE-IS-NO SIGNIFICANT-DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL YEAR HEAMS NON-SIGNIFICANT GROUPINGS 88 3.50		
PLANT SPECIES ARTET TWO-WAY ANOVA-RESULTS THERE-IS-NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL YEAR HEANS—NON-SIGNIFICANT GROUPINGS 88 3.50 4 83 3.50 4 83 3.50 4 83 3.50 4 83 3.50 4 83 3.50 4 84 3.50 4 85 3.50 4 86 3.50 4 86 3.50 4 87 3.50 4 88 3.50 4 88 3.50 4 88 3.50 4 88 3.50 4 88 40.01 FOR YEAR 88 88 43.50 88 43.50 88 3.50 6 8	-BLM-ADMIN UNIT -NVO15804 ; WILDLIFE ; BIG GAME	
TUD-WAY ANDVA-RESULTS THERE-IS-NO SIGNIFICANT-DIFFERENCE-BETWEEN YEARS AT THE 0.05 LEVEL YEAR HEANS NON-SIGNIFICANT-GROUPINGS 88 3.50 4 83 3.50 4 BLH ADMIN UNIT NVOISSO4 : WILDLIFE PLANT SECLES SEAT! DATA-ONLY FOR YEAR 88 BLH ADMIN UNIT NVOISSO4 : WILDLIFE SEAT SEAT SECLES SEAT! DATA-ONLY FOR YEAR 88 BLH ADMIN UNIT NVOISSO4 : WILDLIFE SEAT SEAT SECLES THATE DATA-ONLY FOR YEAR 88 BLH ADMIN UNIT NVOISSO4 : WILDLIFE SEAT SEAT SECLES THATE DATA-ONLY FOR YEAR 88 BLH ADMIN UNIT NVOISSO4 : WILDLIFE SEAT SEAT SEAT SEAT SEAT SEAT SEAT SEA		- 100 PM
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE O.OS LEVEL YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 3.50	A Company of the Comp	
YEAR HEAHS NON-SIGNIFICANT GROUPINGS 88 3.50 A 83 3.50 A BIM-ADMIN UNIT NUOISSOA ; UILDLIFE ALLOTHENT 4308 ; PASTURE N. ; KEY LOOA ; PIG GAME ALLOTHENT 4308 ; PASTURE N. ; KEY LOOA ; PIG GAME ALLOTHENT 4308 ; PASTURE N. ; KEY LOOA ; PIG GAME ALLOTHENT 4308 ; PASTURE N. ; KEY LOOA ; PIG GAME ALLOTHENT 4308 ; PASTURE N. ; KEY LOOA ; PIG GAME ALLOTHENT 4308 ; PASTURE SET SET SET SET SET SET SET SET SET SE		
BLH-ADMIN UNIT NVOISBOA WILDLIFE BIG GAME ALLOTHENT 4308 PASTURE N. KEY LOOA BLH ADMIN UNIT NVOISBOA WILDLIFE BIG GAME ALLOTHENT SPECIES EAT; DATA-ONLY-FOR YEAR BB BLH ADMIN UNIT NVOISBOA WILDLIFE BIG GAME ALLOTHENT 4308 PASTURE N. KEY LOOA PLANT SPECIES THIS BLH-ADMIN-UNIT-NVOISBOA WILDLIFE BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PLANT SPECIES ELCIZ TWO-WAY ANOVA—RESULTS THERE—IS—A SIGNIFICANT DIFFERENCE BETWEEEN-YEARS AT THE 0.05 LEVEL YEAR HEANS NON-SIGNIFICANT GROUPINGS 83 43.50 83 35.00 BLH-ADMIN UNIT NVOISBOA WILDLIFE BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT 4308 PASTURE SS KEY LOOS PROME BIG GAME ALLOTHENT SPECIES ELCIZ PROME BIG GAME	-THERE-IS-NO SIGNIFICANT-DIFFERENCE-BETWEEN YEARS AT-THE 0.05 LEVEL	
BLH-ADMIN UNIT NVOISSOA : WILDLIFE ; BIG GAME ALLOTHENT 4308 ; PASTURE N. ; KEY LOOA) BLH ADMIN UNIT NVOISSOA : WILDLIFE ; BIG GAME ALLOTHENT 4308 : PASTURE N. ; KEY LOOA) BLH ADMIN UNIT NVOISSOA : WILDLIFE ; BIG GAME ALLOTHENT 4308 : PASTURE N. ; KEY LOOA) BLH-ADMIN UNIT NVOISSOA : WILDLIFE ; BIG GAME ALLOTHENT 4308 : PASTURE SP ; KEY LOOS) FELH-ADMIN UNIT NVOISSOA : WILDLIFE ; BIG GAME ALLOTHENT 4308 : PASTURE SP ; KEY LOOS) THOW-WAY-ANOVA-RESULTS THERE-IS-A SIGNIFICANT DIFFERENCE BETWEEN-YEARS AT THE 0.05 LEVEL YEAR HEANS HON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLH-ADMIN UNIT NVOISSOA : WILDLIFE ; BIG GAME ALLOTHENT 4308 : PASTURE SP ; KEY LOOS ; THANT-SPECIES ELCI27	TEAR MEARS NOR-STURTE TOART GROOT TRUS	A A A A A A A A A A A A A A A A A A A
BLM-ADMIN UNIT NVOISSO4; WILDLIFE ALLOTHENT 4308 ; FASTURE N. ; KEY LOO4) BLM ADMIN UNIT NVOISSO4; WILDLIFE ALLOTHENT 4308 ; PASTURE N. ; KEY LOO4) BLM ADMIN UNIT NVOISSO4; WILDLIFE BLAT ONLY FOR YEAR 88 BLM-ADMIN-UNIT-NVOISSO4; WILDLIFE BATA ONLY FOR YEAR 88 BLM-ADMIN-UNIT-NVOISSO4; WILDLIFE ; BIG GAME ALLOTHENT 4308; FASTURE SP ; KEY LOO5) PLANT SPECIES ELCT2 TWO-WAY-ANOVA-RESULTS THERE-IS-A SIGNIFICANT DIFFERENCE BETWEEEN-YEARS AT THE 0.05 LEVEL YEAR— HEANS—NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLM-ADMIN-UNIT-NVOISSO4; WILDLIFE ; BIG GAME ALLOTHENT 4308; FASTURE SP; KEY LOO5; FLANT SPECIES ELCT2; FLANT SPECIES ELCT2; FLANT SPECIES ELCT2;		
DATA ONLY FOR YEAR 88 BLM ADMIN UNIT NVOIS804 ;WILDLIFE ;BIG GAME ALLOTHENT 4308 ;PASTURE N. ;KEY LOO4 PLANT SPECIES THTE DATA ONLY FOR YEAR 88 BLM-ADMIN-UNIT-NVOIS804 ;WILDLIFE ;BIG-GAME ALLOTHENT 4308 ;PASTURE Sp ;KEY LOO5) PLANT-SPECIES BLC12 TWO-WAY ANOVA RESULTS THERE—IS- A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR HEARS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLM-ADMIN-UNIT-NVOIS804 ;WILDLIFE ;BIG-GAME ALLOTHENT 4308 ;PASTURE Sp ;KEY LOO5 ;FLANT-SPECIES BLC12		
DATA ONLY FOR YEAR 88 BLM ADMIN UNIT NVOIS804 ;WILDLIFE ;BIG GAME ALLOTHENT 4308 ;PASTURE N. ;KEY LOO4 PLANT SPECIES THTE DATA ONLY FOR YEAR 88 BLM-ADMIN-UNIT-NVOIS804 ;WILDLIFE ;BIG-GAME ALLOTHENT 4308 ;PASTURE Sp ;KEY LOO5) PLANT-SPECIES BLC12 TWO-WAY ANOVA RESULTS THERE—IS- A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR HEARS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLM-ADMIN-UNIT-NVOIS804 ;WILDLIFE ;BIG-GAME ALLOTHENT 4308 ;PASTURE Sp ;KEY LOO5 ;FLANT-SPECIES BLC12		
DATA ONLY FOR YEAR 88 BLM ADMIN UNIT NVOIS804 ;WILDLIFE ;BIG GAME ALLOTHENT 4308 ;PASTURE N. ;KEY LOO4 PLANT SPECIES THTE DATA ONLY FOR YEAR 88 BLM-ADMIN-UNIT-NVOIS804 ;WILDLIFE ;BIG-GAME ALLOTHENT 4308 ;PASTURE Sp ;KEY LOO5) PLANT-SPECIES BLC12 TWO-WAY ANOVA RESULTS THERE—IS- A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR HEARS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLM-ADMIN-UNIT-NVOIS804 ;WILDLIFE ;BIG-GAME ALLOTHENT 4308 ;PASTURE Sp ;KEY LOO5 ;FLANT-SPECIES BLC12	BLM-ADMIN-UNIT-NV015804;WILDLIFE ;BIG GAME	
DATA-ONLY-FOR YEAR 88 BLM ADMIN UNIT NVOIS804; WILDLIFE ; BIG GAME ALLOTHENT 4308: PASTURE N. ; KEY LOO4 PLANT SPECIES CHTE* DATA-ONLY-FOR YEAR 88 BLM-ADMIN-UNIT-NVOIS804-; WILDLIFE ; BIG-GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS) PLANT-SPECIES ELCI2; TWO-WAY-AHOVA-RESULTS THERE-IS-A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR — MEANS — NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLM-ADMIN-UNIT-NVOIS804; WILDLIFE ; BIG-GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS; FLANT-SPECIES-BLCI2;	PLANT SPECIES SPAT	
BLH ADMIN UNIT NVO15804 ;WILDLIFE ;BIG GAME ALLOTHENT 4308 ;PASTURE N. ;KEY LOO4* DATA-ONLY FOR YEAR 88 BLH-ADMIN UNIT NVO15804 ;WILDLIFE ;BIG-GAME ALLOTHENT 4308 ;PASTURE Sp ;KEY LOO5) PLANT SPECIES ELCI2 TWO-WAY ANOVA-RESULTS THERE—IS—A SIGNIFICANT DIFFERENCE BETWEEEN-YEARS AT THE 0.05 LEVEL YEAR HEANS—NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLH-ADMIN UNIT NVO15804 ;WILDLIFE ;BIG GAME ALLOTHENT 4308 ;PASTURE Sp ;KEY LOO5; FLANT-SPECIES ELCI2;	Total Control of the	
PLANT SPECIES CHTE DATA ONLY FOR YEAR 88 BLM-ADMIN-UNIT NVO15804; WILDLIFE ; BIG-GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS) PLANT SPECIES ELC12 TWO-WAY-ANOVA-RESULTS THERE-IS-A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR— HEANS— NON-SIGNIFICANT GROUPINGS 88 43.50 88 43.50 89 35.00 BLM-ADMIN UNIT NVO15804; WILDLIFE ; BIG GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS; FLANT-SPECIES-ELC12;	Programme of the speed of the s	
PLANT SPECIES CHTE DATA ONLY FOR YEAR 88 BLM-ADMIN-UNIT NVO15804; WILDLIFE ; BIG-GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS) PLANT SPECIES ELC12 TWO-WAY-ANOVA-RESULTS THERE-IS-A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR— HEANS— NON-SIGNIFICANT GROUPINGS 88 43.50 88 43.50 89 35.00 BLM-ADMIN UNIT NVO15804; WILDLIFE ; BIG GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS; FLANT-SPECIES-ELC12;		
PLANT SPECIES CHTE DATA ONLY FOR YEAR 88 BLM-ADMIN-UNIT NVO15804; WILDLIFE ; BIG-GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS) PLANT SPECIES ELC12 TWO-WAY-ANOVA-RESULTS THERE-IS-A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR— HEANS— NON-SIGNIFICANT GROUPINGS 88 43.50 88 43.50 89 35.00 BLM-ADMIN UNIT NVO15804; WILDLIFE ; BIG GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS; FLANT-SPECIES-ELC12;	BLM ADMIN UNIT NV015804 ;WILDLIEE ;BIG GAME	
BLM-ADMIN-UNIT-NV015804; WILDLIFE ; BIG-GAME ALLOTHENT 4308; FASTURE Sp; KEY LOOS; PLANT-SPECIES-ELC12 TWO-WAY ANOVA-RESULTS THERE-IS-A SIGNIFICANT DIFFERENCE BETWEEEN-YEARS AT THE 0.05 LEVEL YEAR MEANS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLM-ADMIN UNIT-NV015804; WILDLIFE ; BIG-GAME ALLOTHENT 4308; FASTURE Sp; KEY LOOS; FLANT-SPECIES-ELC12	PLANT SPECIES CHTE	
BLH-ADHIN-UNIT-NV015804; WILDLIFE ; BIG GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS) PLANT-SPECIES BLC12 TWO-WAY ANOVA-RESULTS THERE—IS-A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR MEANS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLH-ADMIN UNIT NV015804; WILDLIFE ; BIG GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS; FLANT-SPECIES ELC12;		
ALLOTHENT 4308 ; PASTURE Sp ; KEY LOOS ; PLANT SPECIES ELCI2 TWO-WAY ANOVA RESULTS THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLH ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTHENT 4308 ; PASTURE Sp ; KEY LOOS ; FLANT-SPECIES BLC12		
ALLOTHENT 4308 ; PASTURE Sp ; KEY LOOS ; PLANT SPECIES ELCI2 TWO-WAY ANOVA RESULTS THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLH ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTHENT 4308 ; PASTURE Sp ; KEY LOOS ; FLANT-SPECIES BLC12		
PLANT SPECIES ELC12 TWO-WAY ANOVA RESULTS THERE—IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR MEANS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLH ADMIN UNIT NV015804; WILDLIFE ; BIG GAME ALLOTMENT 4308; PASTURE Sp; KEY L005; PLANT SPECIES ELC12;		
TWO-WAY ANOVARESULTS THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLH ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE Sp ; KEY L005 ; FLANT-SPECIES-ELC12 ;	PLANT-SPECIES ELCI2	
THERE—IS-A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL— YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 43.50 82 35.00 BLH ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOIMENT 4308 ; PASTURE Sp ; KEY L005 ; FLANT-SPECIES-BLC12		
YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 43.50 83 35.00 BLH ADMIN UNIT NV015804; WILDLIFE ; BIG GAME ALLOTMENT 4308; PASTURE Sp; KEY L005; PLANT SPECIES ELC12		
88 43.50 82 35.00 BLH ADMIN UNIT NV015804; WILDLIFE ; BIG GAME ALLOTMENT 4308; PASTURE Sp; KEY LOO5; PLANT SPECIES ELC12;	THERE IS A SIGNIFICANT DIFFERENCE BETWEEN TEARS AT THE 0.05 LEVEL	10 7 7
BLM ADMIN UNIT NVO15804 ; WILDLIFE ; BIG GAME ALLOIMENT 4308 ; PASTURE Sp ; KEY LOOS ; FLANT-SPECIES-ELC12	-YEAR - MEANS NON-SIGNIFICANT GROUPINGS	
ALLOTMENT 4308 ; FASTURE Sp ; KEY LOOS ; FLANT-SPECIES-ELC12 ;		
ALLOTMENT 4308 ; FASTURE Sp ; KEY LOOS ; FLANT-SPECIES-ELC12 ;		
ALLOTMENT 4308 ; FASTURE Sp ; KEY LOOS ; FLANT-SPECIES-ELC12 ;		
FLANT-SPECIES-ELCI2	ALLOTMENT 4308 : PASTURE So : KEY LOOS ?	
DATA-ONLY FOR YEAR 83	-PLANT-SPECIES-ELCI2-	
	DATA-ONLY-FOR-YEAR 83	
		TO THE PARTY OF LITTLE AND THE THE PARTY OF

DLH ABRIN UNIT NVOISEG4 ; UILDLIEE ; BIG GAME ALLOTMENT 4308 ; PASTURE Sp ; KEY LOOS	
PLANT SPECIES MURI	
TWO-WAY ANOVA RESULTS	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
88 26.50 *	- and the second second second
BLM ADMIN UNIT NVOI5804 ; WILDLIFE ; BIG GAME	The second secon
ALLOTMENT 4308 ; PASTURE Sp ; KEY LOOS ! PLANT SPECIES ORTHO	
TWO-WAY ANOVA RESULTS	
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL	The second control of
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
83 22.50 	
BLM ADMIN UNIT NV015804 ;WILDLIFE ;BIG GAME	
ALLOTHENT 4308 : PASTURE Sp ; KEY LOOS PLANT SPECIES SUED	The second secon
DATA ONLY FOR YEAR 83	
BLM ADMIN UNIT NV015804 ;WILDLIFE ;BIG GAME ALLOTHENT 4308 ;PASTURE Sp ;KEY 1005	
PLANT SPECIES ATEA	
DATA ONLY FOR YEAR 83	
BLM ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE Sp ; KEY LOOS ;	THE RESERVE OF THE PROPERTY OF
PLANT SPECIES CHNA	
TWO-WAY ANOVA RESULTS	
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
88 43.50 83 26.50	
BLM ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME	
ALLOTHENT 4308 ; PASTURE Sp ; KEY LOOS ;	
THE HAVE ANOTHER PROMETER	
TWO-WAY ANOVA RESULTS	
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.05 LEVEL	
YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 8.50	

AULOTHENI 4308 ; PASTURE Sp ; KET LOUS PLANT SPECIES SAUE4.	· · · · · · · · · · · · · · · · · · ·
TINO-WAY-ANOVA-RESULTS	
-THERE-IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.05 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
88 1.00 **	THE RESERVE OF THE PERSON NAMED IN
BLM ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME	
ALLOTHENT 4308 ; PASTURE Sp ; KEY LOOS PLANT SPECIES AGDA /	
DATA-ONLY-FOR-YEAR 88	
The office that the second of	-
BLM ADMIN UNIT NVO15804 ;WILDLIFE ;BIG GAME ALLOTMENT 4308 ;PASTURE Sp ;KEY LOO5 PLANT SPECIES CHALT	
DATA ONLY FOR YEAR 88	
BLM-ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE Sp ; KEY 1005 ;	
PLANT SPECIES_IPCOS_J	
DATA ONLY FOR YEAR 88	
DO-YOU-WANI-IO-MAKE-ANOTHER-RUN(YES-OR-NO)?	
	A Marie A collegeror
	Service Colors
	a serie repositi
	managed to the
	water with the

	er mann
A.	
	and the state of the state of



=7(0	: [1]	
	AME OF DATA, BASE FILE	
=DB430		
	WANT TO PRINT THE DATA BASE(YES OR NO)?	
= 40		
=10	ERCENT LEVEL OF SIGNIFICANCE(5 OR 10)	
	EY AREA NUMBER:	
	KEY AREAS IN ALLOTMENT, ENTER 'ALL'	
=ALL		
-ENTER-	F FOR FREQUENCY ANALYSIS; 'C' FOR COVER.	
=F		
	WANT THE DETAILED STATISTICAL PRINTOUT?(YES OR NO)	
= 100		
IF IOU	JANT THE OUTPUT TO GO TO A PERM FILE, ENTER FILE NAME; TER 'NO'	
=NO	LUN ITU	
-110		
BLM AD	IN UNIT NVO15804 ; WILDLIFE ; BIG GAME	
	NT 4308 : PASTURE S. ; KEY [1003]	
PLANT	PECIES SPALY	
-T110-111		
	ANOVA-RESULTS	
THERE	A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0-10 LEVEL	
T. ITTI	A SAUNTETCHRI DIEFERENCE BUTWELLIN TEHRS HI THE U.TU LEVEL	
TEAR	MEANS NON-SIGNIFICANT-GROUPINGS	
83	25.00	
88	19.50	
	IN-UNIT-NVO15804 ; WILDLIFE ; BIG-GAME	
ALI ULM	VI 4308 : PASTURE S. ; KEYELOO3	
-PLANT	PECIES ELTR3	
	The state of the s	
TWO-WA	ANOVA-RESULTS	-
THERE	NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL	
	MEANS NON-SIGNIFICANT-GROUPINGS	
88	42.00 *	
83	37:50 - 	
-OME-HA	ANOVA RESULTS	
UNE-WH	HOUVE RESULTS	
THERE -	NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10-LEVEL	
Ž.	and the control of th	
YEAR-	MEANS NON-SIGNIFICANT GROUPINGS	
88	42.00 *	
83	37:50 *	
-DIM-ADI	N-UNIT-NV015804-;WILDLIFE ;BIG-GAME	
	IT 4308 ; PASTURE S. ; KEY LOOS /	
PLANT-	ECIES_JUBA_	
· MINITE		
TWO-WA'	ANOVA RESULTS	
THERE	NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL	
Street, U	of reflective as the	
	MEANS NON-SIGNIFICANT GROUPINGS	
YEAR 83 88	22.00 ±	

ALLOTMENT 4308 :PASTURE S. ;KEY LOOS -PLANT SPECIES DIST	
TWO-WAY ANOVA RESULTS	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS 88 38.00 ± 83 38.00 ±	
BLM ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE S. ; KEY LOOG ; PLANT SPECIES SIHY	
TWO-WAY ANOVA RESULTS	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
88 9.50 *	
ONE-WAY ANOVA RESULTS	And I A to Andread And
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL	ALMAN
YEAR MEANS NON-SIGNIFICANT GROUPINGS	
88 9.50 *	
83 6.50 x	
ALLOIMENT 4308 ; PASTURE S. ; KEYELOO3). PLANT SPECIES AAFF DATA ONLY FOR YEAR 83	
BLM ADMIN UNIT NV015804 ;WILDLIFE ; FIG GAME ALLOTMENT 4308 ; PASTURE S. ; KEY [003]	
PLANT SPECIES DESU	W. A. C.
DATA ONLY FOR YEAR 83	Company of the second section of the second
BLM ADMIN UNIT NUTIS804 ; GILDLIFE ; BIG GAME ALLOTMENT 4308 : FASTURE S. ; KEY LOO3) PLANT-SPECIES SUED	
DATA ONLY FOR YEAR 83	
BLM ADMIN UNIT NVOI5804 ; WILDLIFE ; BIG GAME ALLOTHENT 4308 ; PASTURE S. ; KEY LOO3 PLANT SPECIES CHAP	
TWO-WAY ANOVA RESULIS	The same of the sa
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.10 LEVEL	The second secon
YEAR MEANS NON-SIGNIFICANT GROUPINGS 88 44.50	
83 21.00	

PLANT SPECIES SAVEA	
TWO-WAY ANOVA RESULTS	
THERE IS A SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS 88 30.50	
83 24.00	
BLM ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE S. ; KEY 1003 ; PLANT SPECIES SPAI	
DATA ONLY FOR YEAR 88	
BLM ADMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE S. ; KEY 1003 ; PLANT SPECIES AGDA	
-DATA-ONLY FOR YEAR 88	
Esperiment of the second secon	
BLM-ADMIN-UNIT-NV015804; WILDLIFE; BIG-GAME ALLOTHENT 4308; PASTURE S.; KEY 1003	
PLANT SPECIES IVAX	
DATA ONLY FOR YEAR 88	
BLM-ADMIN UNIT-NV015804 :WILDLIFE ;BIG GAME ALLOTHENT 4308 :PASTURE S. ;KEY 1003 ; PLANT SPECIES CHTE	3,
DATA ONLY FOR YEAR 88	
The state of the s	
BLM ADMIN UNIT NVOISSO4 ; WILDLIFE ; BIG GAME ALLOTHENT 4308 : PASTURE N. ; KEY LOO4 ; PLANT SPECIES SPAI	
TWO-WAY ANOVA RESULTS	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL	
YEAR MEANS NOW-SIGNIFICANT GROUPINGS 83 62.00 **	
ALLOTMENT 4308 : PASTURE N. : KEY LOO4	
FLHRI SFECIES BISI	
TWO-WAY-ANOVA-RESULIS	
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.10 LEVEL	

ALLOTHENT 4308 ;PASTURE N. ;KEY LOO4 PLANT SPECIES ELC12	F. 1 . 1 X
TWO-WAY ANOVA RESULTS	The same of the sa
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS, 83 16.50	
BLM ADMIN UNIT NV015804; WILDLIFE ; BIG GAME ALLOTHENT 4308; PASTURE N.; KEY LOO4 PLANT SPECIES SIHY TWO-WAY ANOVA RESULTS THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.10 LEVEL	
THERE TO H STATE THE PRESENT STATE OF THE VITA BASE	
YEAR HEANS NON-SIGNIFICANT GROUPINGS 88 30.00) 83 13.50	
BLM ADMIN UNIT NV015804 ;WILDLIFE ;BIG GAME ALLOTMENT 4308 :PASTURE N. ;KEY 1004 ; PLANT SPECIES ORNY (
THO-WAY ANOVA RESULTS .	
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL YEAR HEANS NON-SIGNIFICANT GROUPINGS 83 1.50 * 88 1.00 *	
ONE-WAY ANOVA RESULTS THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS 83 1.50 & 88 1.00 &	
BLM ADMIN UNIT NVOI5804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE N. ; KEY LOO4 !! PLANT SPECIES ORTHO	
DATA ONLY FOR YEAR 83	
BLM APMIN UNIT NV015804 ; WILDLIFE ; BIG GAME ALLOTMENT 4308 ; PASTURE N. ; KEY LOOA · - PLANT SPECIES DESO /	
DATA ONLY FOR YEAR 83	
DLM-ADMIN-UNIT-NVO15804-; WILDLIFE ; BIG GAME ALLOTMENT 4308 : PASTURE N. ; KEY LOOA 7 PLANT-SPECIES CHNA;	
TWO-WAY ANOVA RESULTS	
THERE-IS-A-SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.10 LEVEL	
YEAR MEANS NON-SIGNIFICANT GROUPINGS 488 44.50 83 18.00	

-						
75	30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -					
		Contraction of the second seco	- 40		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(-ANOVA-RESULTS-	The state of the s				and the second second
THERE-I	S-NO-SIGNIFICANT-DIFFERENCE-BETWEEN-YE	EARS AT THE 0.10-LEVEL-				
YEAR	MEANS - NON-SIGNIFICANT-GROUPINGS			grant and the state of the stat		
88	31.00 *					
ALLOIME	FIN UNIT NV015804 ; WILDLIFE ; BIG ENT 4308 ; PASTURE N. ; KEY 10041 ; PECIES ARTRE	GAME ,				
	- Carlotte					
	ANOVA-RESULTS		er i managent succes. April 1			
HERE I	S NO SIGNIFICANT DIFFERENCE BETWEEN YE	EARS AT THE 0.10 LEVEL				
EAR	MEANS NON-SIGNIFICANT GROUPINGS					
63	3.50 *		+			
			1			
			_			
LM ADM	IN UNIT NVO15804 ; WILDLIFE ; BIG	GAME				
LLUINE						
LANT 5	PECIES SPAI			THE RESERVE THE PARTY OF THE PA		
	PECIES SPAI	`				
	PECIES SPAI	,				
DATA ON	PECIES SPAIL	,				
DATA ON	IN UNIT NV015804 ; WILDLIFE ; BIG	,				
ATA ON	PECIES SPAIL	,				
CLM ADM	IN UNIT NV015804; WILDLIFE NT 4308: PASTURE N.; KEY [1004]; PECIES CHIE;	,				
CLM ADM	IN UNIT NV015804 ; WILDLIFE ; BIG	,				
CLM ADM	IN UNIT NV015804; WILDLIFE NT 4308: PASTURE N.; KEY [1004]; PECIES CHIE;	,				
MATA ON MEMORITATION OF THE PROPERTY OF THE PR	IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE N.; KEY LOO4; PECIES CHIE; ILY FOR TEAR 88	GAME				
ATA ON ALLOTHE LANT STATE ON ALLOTHE ALM ALLOTHE	IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE N.; KEY LOO4; PECIES CHTE; ILY FOR YEAR 88	GAME	/			
LM ADM	IN UNIT NVOISSO4; WILDLIFE; BIG ENT 4308; PASTURE N.; KEY LOO4; PECIES CHIE; IN UNIT NVOISSO4; WILDLIFE; IN UNIT NVOISSO4; WILDLIFE; INT 4308; PASTURE Sp; KEY LOO5; PECIES ELCIZ;	GAME				
LM ADM LLOTHE LANT S ATA ON LH ADM LLOTHE LANT S WO-WAY	IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE N.; KEY 1004; PECIES CHTE; ILY FOR YEAR 88 (IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE Sp; KEY 1005; PECIES ELC12; ANOVA RESULTS	GAME	/			
MATA ON ALLOTHE LANT STATE ON ALLOTHE LANT STATE CONTROL OF THE CO	IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE N.; KEY 1004; PECIES CHTE; ILY FOR YEAR 88 IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE Sp; KEY 1005; PECIES ELC12; ANOVA RESULTS S A SIGNIFICANI DIFFERENCE BETWEEEN YE	GAME				
ALM ADM ALLOTHE PLANT S JATA ON ALLOTHE LANT S TWO-WAY THERE I	IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE N.; KEY 1004; PECIES CHTE; ILY FOR YEAR 88 (IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE Sp; KEY 1005; PECIES ELC12; ANOVA RESULTS	GAME				
CHARTS CHARTS CHARTS CHARTS CHERE I	IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE N.; KEY LOO4; PECIES CHTE; ILY FOR TEAR 88 IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE Sp; KEY LOO5; PECIES ELCIZ; ANOVA RESULTS S A SIGNIFICANT DIFFERENCE BETWEEN YE MEANS NON-SIGNIFICANT GROUPINGS 43.50	GAME				
DATA ON ALLOTHE PLANT S DATA ON ALLOTHE PLANT S TWO-WAY THERE I	IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE N.; KEY LOO4; PECIES CHTE; ILY FOR TEAR 88 IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE Sp; KEY LOO5; PECIES ELCIZ; ANOVA RESULTS S A SIGNIFICANT DIFFERENCE BETWEEN YE MEANS NON-SIGNIFICANT GROUPINGS 43.50	GAME				
DATA ON BLM ADM BLLOTME PLANT S BLLOTME PLANT S IWO-WAY IHERE I YEAR 88 83	IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE N.; KEY LOOA; PECIES CHTE; ILY FOR YEAR 88 (IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE Sp; KEY LOOS; PECIES ELCIZ; ANOVA RESULTS S A SIGNIFICANT DIFFERENCE BETWEEN YE MEANS NON-SIGNIFICANT GROUPINGS 43.50 35.00 IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE Sp; KEY LOOS;	GAME GAME CARS AT THE 0.10 LEVEL				
BLM ADM ALLOTME PLANT S DATA ON BLH ADM ALLOTME PLANT S TWO-WAY THERE I YEAR 88 83 81 BLH ADM ALLOTME PLANT S	IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE N.; KEY LOOA; PECIES CHTE; ILY FOR YEAR 88 IN UNIT NV015804; WILDLIFE; BIG NT 4308; PASTURE Sp; KEY LOOS; PECIES ELC12; ANDVA RESULTS S A SIGNIFICANT DIFFERENCE BETWEEN YE MEANS NON-SIGNIFICANT GROUPINGS 43.50 35.00 IN UNIT NV015804; WILDLIFE; BIG	GAME GAME CARS AT THE 0.10 LEVEL				

ALLOTHENT 4308 : FASTURE Sp : KEY LOOS PLANT SPECIES MURT
TWO-WAY ANOVA RESULTS
THERE IS NO SIGNIFICANT DIFFERENCE BETWEEN YEARS AT THE 0.10 LEVEL
YEAR MEANS NON-SIGNIFICANT GROUPINGS
83 24.00 **
BLH ADMIN UNIT NVOISSO4; WILDLIFE ;BIG GAME ALLOTHENT 4308; PASTURE Sp; KEY LOOS; PLANT SPECIES ORTHO
TWO-WAY ANOVA RESULTS
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.10 LEVEL
YEAR MEANS NON-SIGNIFICANT GROUPINGS
83 22.50 88 4.50
BLM ADMIN UNIT NV015804 ;WILDLIFE ;BIG GAME ALLOTMENT 4308 ;PASTURE Sp ;KEY 1005
PLANT SPECIES SUED:
DATA UNLY FOR YEAR 83
ELM ADMIN UNIT NV015804; WILDLIFE; BIG GAME
ALLOTHENT 4308 ; PASTURE Sp ; KEY (1005)) PLANT SPECIES ATFA.
DATA ONLY FOR YEAR 83
- BLH-ADMIN-UNIT-NV015804-; WILDLIFE ; BIG GAME ALLOTHENT 4308 ; PASTURE Sp ; KEY LOOS
PLANT SPECIES CHNA .
TWO-WAY-ANOVA-RESULTS
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.10 LEVEL
YEAR HEANS NON-SIGNIFICANT GROUPINGS
88 43.50 83 26.50
65 26.30
BLM-ADMIN UNIT NV015804; WILDLIFE
— PLANT-SPECIES-ARTRT
TWO-WAY ANOVA RESULTS
A STATE OF THE STA
THERE IS A SIGNIFICANT DIFFERENCE BETWEEEN YEARS AT THE 0.10 LEVEL

	C/	ALCULATE	D B	Y LIS	TER		ALLOT	NO.	4308		KEY AREA	NO.	L001		DATE	JU	11, 19	86					
	ECOL	LOGICAL	SIT	E PA	LOMIN	0 S	EEDING 💸						NO. OF PL	.OTS	10		PAGE	1	OF	i			
PLANT SPP SYM/TYPE 6,F,S,T		PHENO STAGE		GREE ALL	N WT PLTS	!	(X) DRY WT ADJUST	2 1 2 2	(X) PHENO ADJUST	1	PRECIP ADJUST	;	(=) TOTAL DRY WT	1	(-:-) TOTAL NO. OF PLOTS	1	(X) 10	1	(=) LBS/ ACRE	1	(-:-) TOTAL WT ALL PLOTS	1	(=) % COMP
AGCR ORHY CHV18	1	5 6 3	0.000		552 2 10	!	0.64 0.68 0.42	3	1.00	1	1.17 1.17 1.17	1	301.95 1.26 6.68	1 1 2	10 10 10	1	10 10 10	!	301.95 1.26 6.68			1	97.4 0.4 2.1
TOTAL FOR ALL PLOTS			!		564	1			ă			;	309.88	}				1	309.88	1		;	100.0
									WEIGHT-ES	TIM	ATE TRANS	ECT	DATA SHE	ET									
	CA	ALCULATE	D B	Y Hen	klein		ALLOT	NO.	4308		KEY AREA	NO.	L001		DATE	3	JUNE 2,	198	8/				
													LOO1)			888	JUNE 2, PAGE	198	OF	1			
PLANT SPP SYM/TYPE	ECOL	LOGICAL PHENO	SITI	E PAL	OMINO	SE	EDING (X) DRY WT		(X) PHENO				NO. OF PLI (=) TOTAL	.OTS						3 2	(-:-) TOTAL WT ALL PLOTS	1	(=) % COMP
PLANT SPP SYM/TYPE	ECOL	PHENO STAGE	SITI	GREE ALL	DHIND N WT PLTS 173.5	SE	EDING (X) DRY WT		(X) PHEND ADJUST 1.46 1.35 1.00		(-:-) PRECIP		NO. OF PLI (=) TOTAL	OTS	(-:-) TOTAL NO. OF PLOTS 10 10 10		PAGE (X) 10 10 10 10	1	0F (=) LBS/ ACRE 559.63 2.03		(-:-) TOTAL WT ALL PLOTS 641.88	¦ ¦	7,

	Ci	ALCULATED	8)	/ LISTER		ALLOT	NO.	4308		KEY AREA	NO.	L002		DATE	JU	L. 11, 19	186					
	ECO	LOGICAL S	ITE	LOWER S	EEL	ING E						NO. OF PL	OT	S 10		PAGE	i	 0F	1			
LANT SPP YM/TYPE F,S,T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PHENO STAGE		GREEN WT ALL PLTS	1	(X) DRY WT ADJUST	:	(X) PHENO ADJUST	1	(-:-) PRECIP ADJUST	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(=) TOTAL DRY WT	1	(-:-) TOTAL NO. OF PLOTS		(X) 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(=) LBS/ ACRE	1	(-:-) TOTAL WT ALL PLOTS	1	(=) % COMP
SER ULAS CHVI8 URHY ARTR2 PHLOX	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 5 3 6 3 7	1	478 7 7 2 17 2	1	0.64 0.67 0.42 0.68 0.44 1.00		1.00 1.00 1.86 1.08 4.48 2.09	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.17 1.17 1.17 1.17 1.17		261.47 4.01 4.67 1.26 28.64 3.57	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 10 10 10 10	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	10 10 10 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	261.47 4.01 4.67 1.26 28.64 3.57	1 1 1 1 1 1	303.62 303.62 303.62 303.62 303.62 303.62		86.12 1.32 1.54 0.41 9.43
TOTAL FOR NLL PLOTS			1	513	!						}	303.62	1				1	303.62	;		;	100.00

WEIGHT-ESTIMATE TRANSECT DATA SHEET

	3	ALCULATE) B	Y HENKLEI	N	ALLOT	NO.	4308		KEY AREA	NO.	L002		DATE 🐉	JUNE 2, 1	988					
	ECO	LOGICAL S	3IT	E LOWER S	EEI	ING						NO. OF PL	OT.	S 10	PAGE	1	OF	1			
PLANT SPP SYM/TYPE 5,F,S,T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PHENO STAGE	!	GREEN WT ALL PLTS	1 1 1	(X) DRY WT ADJUST	1 1 1	(X) PHENO ADJUST	!	(-:-) PRECIP ADJUST	1	(=) TOTAL DRY WT	1	(-:-) : TOTAL NO. : OF PLOTS :	(X) 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(=) LBS/ ACRE		(-:-) TOTAL WT ALL PLOTS	!	(=) % COMP
AGCR AGCR EULA5	!!!	4 5 3	1	199 160 17	I I I I	0.51 0.64 0.35	1 1 2 1	1.46 1.00 2.44	1 1 2 2 1 1	0.63 0.63 0.63	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	235.20 162.54 23.70	1 1	10 ; 10 ; 10 ;	10 10 10	!	235.20 162.54 23.70	1	584.68	1 1 1	40.23 27.80 4.05
ARTR2	1 1 2	3 3	1	8 49	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.42	5 5 5	1.86 4.48	2	0.63 0.63	1 1 1	9.92 153.32	-	10 10	10 10		9.92 153.32		584.68 584.68	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.70 26.22
TOTAL FOR ALL PLOTS			1	433	!						!	584.68	2 2			;	584.68	;		}	100.00

S	pecies Name or Symbol SPA1 SPGR CAREX	= Dresen,	* 40-50 10-15 5-10	^{8/90} / ₁₀ =	ECOLOGICAL STATUS WRITE-UP (1) Allotment: North Butte Vallay (2) Examiner(s): LISTER (3) Write-up no. Loo3 (South) (4) Map unit no.
	JUBA .	IT	12-8		(5) Ecological Site: Dry Saline Meadow (28x2
	Poju		2-8		(6) Date: 8-11-83
	DISPSZ	6	2-5	5	(7) Quad or Phto. no
46-	PUCCI		2-5		(8) Soil series :
%	PP6-6		10-15	,	REMARKS: plant vigor; animal signs (hedging, terracing,
Grass	ALSM		9		droppings, etc.); severe erosion signs; % surface rock; burned/unburned; seedlings; seeded; PJ invasion; etc.
	ELTR3	28	5	5	burned / unburned; seedlings; seeded; PJ invasion; etc.
	ELC12		5		
	MUAS		5		
	SIHY				
	PPGG-		5-15		
	RUMEX -		2		
A	TRIEL		2		
%	POTEN		2		
Forbs	ALOC2		2		101 - 005
	SENEL		2		(9) SSF
	IRMI	*	2		SM (14)
	IVAX		1 2		SL (14)
	DODEC		2,		SR (14)
	DESCU	4		2	P (14)
	SUEDA	T			FP (15)
	20.0077				R (14)
					G (15)
	·			K	TOTAL
	91.				(IO) Veg. aspect:
					(11) Slope aspect:
	SSSS		2-8		(12) % Slope :
	SAVE 4	47	2	2	(13) % Rock outcron:
%	CHNA2	,,	2		(13) % Rock outcrop:
Shrubs	CHAL9		2		(15) Gr - F - S canopy cover :
8	CHVI 8	3		2	(16) Tree concry cover:
Trees	-1//10				(16) Tree cancpy cover:
					(17) % of SWA: (18) Elevation: (19) Final SWA no.:
					(19) Final SWA no:
 					(21) Key management area no.:
-					(22) Ecological Status:
		l			1 (22) Ecological Status

		Dresen	* 40	8/90M0/10	ECOLOGICAL STATUS WRITE-UP
S	pecies Name or Symbol	Dre	Q	10//0	(1) Allotment: North Butte Valley
ο, Γ	SPA1	29	40-50	29	(2) Examiner(s): HENKLEIN
H	SPGR	201	10-15	21	(3) Write - up no. Los 3 (South)
-	CAREX		5-10		(4) Man unit no
-	JUBA .	T	2-8		(5) Ecological Site: Dry Saline Meadow (28 XZ)
-			2-8		(6) Date: 6-21-88
H	POJU		2-5		(7) Quad or Phto. no.
· -	DISPSZ				
%	PUCCI		2-5		(8) Soil series :
Grass	PP6-6		10-15		REMARKS: plant vigor; animal signs (hedging, terracing, droppings, etc.); severe erosion signs; % surface rock; burned/unburned; seedlings; seeded; PJ invasion; etc.
Grass	AGSM		9		droppings, etc.); severe erosion signs; % surface rock;
	ELTR3	16	5	5	burned / unburned; seedlings; seeded; PJ invasion; etc.
	ELC12	9	15	9	
	MUAS		15		
	SIHY	1			
	ORHU	T			
	7				
			1		
F		•			
-					Mark Design and the Control of the C
-					
-					
-					
L	PPGG-		5-15		
	RUMEX		2		
%	TRIEL:		12		
Forbs	POTEN		12		
Forbs	ALOC2		12		(9) SSF
Γ	SENEC		2		
Γ	IRMI		12		SM (14)
	IVAX	7	1 2	2	SL (14)
F	DODEC		2		SR (14)
-	20720				P (14)
H					FP (15) R (14)
-					R (14)
23			-		G (15)
-			1		TOTAL
12 - (1987)	-				
					(IO) Veg. aspect:
		v			(11) Slope aspect:
	SSSS		2-8		(12) % Slope:
L	SAVE4	8	12	2	(13) % Rock outcrop:
%	CHNAZ	29	1 2	2	(13) % Rock outcrop: (14) Total lbs./Ac.: 1695
Shrubs	CHAL9		2		(15) Gr - F - S canopy cover:
8					(16) Tree concou cover:
Trees					(17) % of SWA: (18) Elevation:
-					(18) Elevation:
-					
-					(19) Final SWA no.:(20) Stratum no.:
-					(20) Strutum no. •
-					(21) Key management area no.:
L					(22) Ecological Status :
				,	NV 4400-13 (July 1984

Weight

										IATE TRANSEC											
										KEY AREA NO											
	ECOI	LOGICAL	SIT	E DRY SALI	NE	MEADOW (288	X002) SO	UTH	PASTURE 1	NO	. OF PL	0TS	3 10		PAGE	1	OF	1		
PLANT SPE										(-:-)				(-:-)				(=)		(-:-)	(=)
SYM/TYPE	1	PHENO	1	GREEN WT			j	PHENO		PRECIP !		TOTAL		TOTAL NO.		10		L83/		TOTAL WT :	7.
6,F,S,T	}	STAGE	1	ALL PLTS	1	ADJUST	ì	ADJUST	1			RY WT	;	OF PLOTS	1		1	ACRE	ì	ALL PLOTS	COMP
SPAI	1	5	}	164	1	0.48	ì	1.00	1	1.73		45.50	}	10	ì	10	<u> </u>	45.50	1	467.81 }	9.73%
SPAI	1	1	1	5	1	0.39	ţ	5.75		1.73		6.48		10	ì	10	1	6.48	1	467.81	1.39%
ELTR3	1	5	1	42	1	0.49	1	1.00		1.73 !		11.90	1	10	1	10	1	11.90	ì	467.81	2.54%
ELTR3	1	1	. !	35	1	0.31		19.19		1.73		120.35	1	10	į	10	i	120.35	I	467.81	25.73%
JUBA	1		1			0.49		1.00		1.73		1.59		10	1	10	i	1.59		467.81	0.34%
DIST	1	_				0.41		3.50		1.73		21.57		10	!		1	21.57		467.81	4.61%
DIST	1	_	5 }	(4.1	-	0.45		1.50		1.73		5.85		10)		1		1	467.81	1.25%
SIHY		6		-		0.79		1.51		1.73		3.45		10				3.45		467.81	0.74%
DESCU	1	-	7			0.95		1.29		1.73		18.42		10	3	10	1	18.42		467.81	3.94%
SUEDA	1	5				0.75		1.00		1.73		0.30	1	10	!	10			!	467.81	0.05%
SAVE4	1		2 1			0.20		4.46		1.73		37.12	1	10	1	10	;	37.12		467.81	7.94%
	1	-	3 1										1	10	1	10	1	123.88		467.81	26.48%
SAVE4						0.21		4.38		1.73 }		123.88	1		1	10	1	56.84		467.81	12.15%
SAVE4	1		1	165		0.20		2.98		1.73 }		56.84		10	333						0.12%
CHA18	1		2 !			0.32		3.00		1.73		0.55		10	1		1	0.55		467.81	
CHA18			3 ;	31		0.42	; 	1.86	;	1.73	 	14.00	;	10	i 	10	i 	14.00	i 	467.81	2.99%
TOTAL FO																					
ALL PLOT	S		3	827.6	1					i	1	467.81	1				1	467.81	i	1	100.00%
								NCIOUT_CO		MATE TRANSEC		NATA CUI									
															- Note -	Marine and the second	1 10 1	- 4			
										KEY AREA NO											
	ECO	LOGICAL	SIT	TE DRY SALI	NE	MEADOW (28B)	X002)	SO	UTH PASTURE	A NE). OF PL	.OT	S 15		PAGE	1	0F	1		
PLANT SP					1					(-:-)									i	(-;-)	(=)
SYM/TYPE	1	PHENO	1	GREEN WT	1	DRY WT	1			PRECIP										TOTAL WT !	7.
6,F,S,T	1	STAGE	1	ALL PLTS	1	ADJUST	1	ADJUST	1	ADJUST	1	RY WT	1	OF PLOTS	ì		i	ACRE	į	ALL PLOTS !	COMP
ELTR3			1 :	88	1	0.31	1	9.05		0.63		391.88	 !	15	1	10	;	261.25	!	1695.31 :	15.41%
						0.34						6.48								1695.31	0.25%
SIHY	; ;		4 !	21				1.79		0.63		25.66								1695.31	
DIST			1	6		0.41		3.50		0.63		13.67						9.11			0.54%
JUBA						0.44		1.27		0.63		3.55						2.37			0.14%
SPAI	1		1 :			0.39				0.63		733.26						488.84			28.83%
	1		2			0.39						4.05						2.70			0.16%
IVAX	1		1 1															91.10			5.37%
	1		2 1			0.21		27.33		0.63		136.65						24.72			1.46%
IVAX	i					0.19		6.83				37.08									29.57%
CHNA	i					0.29		10.21		0.63		751.97						501.32			
SAVE	i		1			0.35						82.40								1695.31	3.24%
SAVE	1		2 1			0.20						110.44								1695.31	4.34%
ELC12	1		4			0.40						226.29								1695.31	8.90%
ELTR3	1		2 1			0.40						19.60						13.07	ì	1695.31	0.77%
	1				1		1		i		!		1		i		1		1	}	

1 2542.96 1

1 1695.31 1 1 100.00%

TOTAL FOR

ALL PLOTS

ALLOTHERT	4303 PASTURE S	p ;KEY L005	ಪ್ರತ ಆ ಗಾದ				
PLANT SFZC	CIES SAVE4					COME OF THE CONTRACT OF THE CO	*****
TWO-WAY A	NOVA RESULTS	1 A 1			a service of the second control of the second con-		with moved to help the section of the
THERE-IS-N	NO SIGNIFICANT D	IFFERENCE BETWEE	N YEARS AT THE	0.10 LEVEL	 		CONTRACTOR OF THE CONTRACTOR
88 1	1.00 ± 1.00 ±	FICANT GROUPINGS					
ALLOTMENT	-UNIT-NV015804-; 4308 ; PASIURE S CIES-AGDA	wildlife ;	BIG GAME				
	FOR YEAR 88				 	Comments on the world of the Annahillation	
LM-ADMIN- ALLOTMENT PLANT SPEC	UNIT NV015804-; 4308 ; PASTURE S CIES CHALT	WILDLIFE ;	BIG GAME		,		
DATA ONLY	FOR YEAR 88				 	AND AND AND ADDRESS OF THE PARTY.	
ATA ONLY	FOR YEAK 88	ER RUN (YES OR NO	13				
NO TOU WAN	NI IU MAKE ANUIH	EK KUN(IES UK NU	71			and the other of the forest and the financial sections in	
YE	D - #25.4 TU 4 #25 4		*				
ISCONNECT	E TERMINATED - C TED						
			The state of the s	·		and the second s	
			-		 	THE PROPERTY OF STREET, STREET	
				ARIL PROPERTY.	-		
				•			

...

LIVESTOCK CARRYING CAPACITY CALCULATIONS USING ACTUAL USE/AVERAGE UTILIZATION RATIO

Livestock	Carrying Capacity		= Desired Key Area * Utilization			*	* Actual Use			
							Key Area	Utiliza	tion	
	Averag	е								
	Livestock Carrying			Low and High Range				Linear Regression		
								Livestock Carrying		
	Cap. (AUMs)		(AUMs)				Capacity (AUMs)			
Spring	380		43	_	569			214		
North	439		349	_	602			353		
South	248		87	-	452			327		
Palomino	427		351	-	495			420		
Lower	477		235	_	763			422		
Juniper	0		0	_	0			0		
	1971		1065	-	2881			1736		

All estimates are adjusted for precipitation using Ruby Lake crop yield index.

KEY AREA UTILIZATION = the highest key species utilization (of current years growth) at key area

AVERAGE LIVESTOCK CARRYING CAPACITY =

Average of stocking rates from 1983 to 1988, as calculated with the above formula.

LOW & HIGH RANGE =

The highest and lowest stocking rates estimation from 1983 to 1988.

LINEAR REGRESSION LIVESTOCK CARRYING CAPACITY =

This carrying capacity was estimated using simple linear regression. X was key area utilization, as defined above (adjusted for precipitation). Y was actual use.