( Attachment #1 M 11-13-92

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT Winnemucca District Office 705 East Fourth Street Winnemucca, Nevada 89445

In reply refer to:

NV026.12

Memorandum Area Manager, Sanoma/Gerlach Armatinger

To:

Peggy Wiltse, Range Conservationist 7500 From:

Subject: Use Pattern Mapping the Summer Country of the Rodeo Creek and Pole Canyon Allotments

Rosowre Area.

Use Pattern Mapping (UPM) data was collected November 2-5,1992 by Amanda McCutcheon, Arn Berglund, Tom Seley, Vala Livingston, and Peggy Wiltse on the summer range of the Rodeo Creek Allotment and on the Pole Canyon Allotment. Stan Ceresola, the permittee, rode with Berglund and Wiltse on November 2. This data was collected to determine the amount of summer use by cattle and wild horses. Only 100 dry cows out of a possible 485 cow/calves were put onto the summer country of the Rodeo Creek Allotment this year due to the forage condition. The area received very little snow this past winter and very little rain during the spring. The grass species present only grew about 1/2-1" of leaf growth before seeding out this year. The area was covered in a four wheel drive pickup, by foot and by horseback. The access in the summer country is primarily limited to horseback or by foot. The weather was overcast with temperatures in the 50's and 60's. Six utilization classes were used: no apparent use (0%); slight use (1-20%); light use (21-40%); moderate use (41-60%); heavy use (61-80%); and severe use (81-100%). The acres mapped for Rodeo Creek by use class was: no apparent use - 0 acres; slight use - 754 acres; light use - 11,861 acres; moderate use - 10,366 acres; heavy use 18,657 acres; severe use - O acres; and 3657 acres not mapped. The acres mapped for Pole Canyon by use class was: no apparent use - 0 acres; slight use - 0 acres; light use - 2829 acres; moderate use - 0 acres; heavy use - 4769 acres; severe use - O acres; and 2199 acres not mapped. The key grass forage species with the highest utilization were used when coloring the map. The browse use is discussed in this memo.

#### WILLOW CREEK, JUNIPER FLATS, COYOTE CREEK, AND BULL BASIN

UPM data was collected up along Willow Creek to Juniper Flats, over to a utilization cage at the head of Coyote Creek, and then over to Bull Basin by Berglund, Ceresola, and Wiltse on November 2. Along Willow Creek the uplands had very few grass species. The POSE was used lightly and the SIHY when seen was under the cover of the browse species and unaccessible for use. The

tamarisk seen growing along the creek had moderate to heavy use. Three PUTR2 plants were seen along Willow Creek and they were heavily hedged. The CHVI seen was also heavily to severely used, many to ground level. The use at cage 1 (KF#1) at Juniper Flats was: SIHY 54%; POSE 50%; and CHVI 70%. Some of the Lahontan sagebrush had been hedged as well. SIHY was mostly seen in the protection of the sagebrush. At cage 2 (KF#2) at the head of Coyote Creek the use was: SIHY 60%; POSE 58%; and CHVI 82%. The desert peach plants present had heavy use and the Stipa also had heavy use where present. At cage 3 (KF#3) at Bull Basin the use was: SIHY 68%; STTH2 66%; POSE 66%; and CHVI 76%.

### RATTLESNAKE CANYON

UPM was conducted by Amanda McCutcheon on November 2 in Rattlesnake Canyon. Hardly any grasses were found. Those that were in the area were moderately to heavily grazed or were found in the protective cover of the shrubs and therefore were unaccessible.

Most utilization occurred on the shrubs with moderate grazing on GRSP, ATCO, and SAVE4 and heavy on PUTR2. The PUTR2 has been dwarfed in the past, but there were no new leaders showing on the plants.

### LITTLE RATTLESNAKE

UPM was conducted by Amanda McCutcheon on November 2 in Little Rattlesnake. Grass was scarce in this area. Use occurred on shrubs. KFT#10 was conducted using GRSP and PUTR2. The use of PUTR2 (66%) may be higher than normal because the animals have very few grasses to graze and are primarily feeding on browse species. All new growth was down within the plant. There were no leaders present. GRSP was moderately grazed at 50%. CHVI and SAVE4 were also hedged.

#### TRAIL CANYON

UPM was conducted by Amanda McCutcheon on November 2 in Trail Canyon. KFT#11 was conducted using POSE and GRSP. CHVI and SAVE4 were also hedged. Use on POSE was 68%. There were no seed heads left on the plants and there were numerous trails through the canyon. Use on GRSP was 42%. There was no SIHY found along the transect.

### RODEO CREEK SOUTH

UPM data was collected on November 4 by McCutcheon and Wiltse from Rodeo Creek south toward the Pole Canyon Allotment by horseback. Two cages were planned to be looked at, but an aspen tree had fallen since the last mapping and only one cage was reached. The use at cage 6 (KF#6) was: SIHY 72%; POSE 70%; and CHVI 72%.

#### PAHRUM PEAK

UPM data was collected on November 5 by McCutcheon and Wiltse at the cage near Pahrum Peak. The STTH2 was showing fall green up from the rain that occurred a few weeks prior to mapping. The SYMPH seen while sidehilling by foot from the truck to the cage had been heavily hedged. The use at the cage was: SIHY 67%; LUPINE 78%; and CHVI 76%.

### COTTONWOOD BASIN, SMITH CANYON TO THE SOUTH

UPM data was collected on November 4 by Seley, Berglund, and Livingston by horseback from Cottonwood Basin south to Smith Canyon, then continuing south almost to Willow Creek, and then looping back to Cottonwood Basin. At cage 8 (KF#8) at Cottonwood Basin, the use was: POSE 24% and GRSP 28%. SIHY was found at a very low density and not enough hits occurred to determine an average utilization level. Generally the use seen during the rest of the mapping was: heavy use was found on the low density shrubby Eriogonum. Slight use was found on budsage and Lahontan sagebrush. The Poa density was high, but had low vigor with 1/2" leaf growth. Low density ELCI2 had heavy use in Cottonwood. No perennial grasses were seen with the exception of a few plants on the northern exposures while travelling south from Cottonwood Basin to approximately the T.31N./T.30N. line. At that point POSE was seen as well as SIHY underneath the cover of the browse species. SAVE4 and GRSP had moderate to heavy use. CHNA had slight use when used. ATCO had heavy use on select plants. The animals have been very selective in which plants they have selected to use. TEGL had slight use. CHVI had heavy to severe use. ARTEM had light use and when present tamarisk had moderate to heavy use. Since the recent rain there has been very few horses using the area mapped.

An 18 year old mare was found dead at T.31N.,R.22E.,Sec.30,SW1/4SE1/4. She appeared to have been dead for less than a week and probable cause was old age.

KF#9 was done on November 5 by Seley, Berglund, and Livingston also by horseback. The PUTR2 was decadent, low vigor, and available for use. One PUTR2 seedling was seen. The use found was: PUTR2 14% and POSE 3%. Not enough SIHY hits were found to determine an average utilization for the transect. No hedging on the sagebrush was found. Use was made by wildlife.

#### POLE CANYON ALLOTMENT

Cage 4 (KF#4) was done at the head of Mullens Canyon. The vegetation consisted of ARTEM, SIHY, POSE, SYMPH, CHVI, and shrubby Eriogonum. The use was: SIHY 61% and POSE 45%. Not enough hits occurred on SYMPH or CHVI to determine an average utilization for the transect, but the hits that did occur, had severe use. Shrubby Eriogonum was not found along the transect, but those seen walking to the cage were heavily hedged. At cage 5 (KF#5) the use was: POSE 72%; SIHY 65%; and CHVI 74%. Not enough hits occurred on SYMPH to determine an average utilization for the transect. These two cages are in a heavy horse concentration area. Fresh stud piles were seen throughout the area. No cows have used the Pole Canyon Allotment for the last three years because of the lack of water and forage. The use on the Sodic Terrace near Rough Canyon was generally light use on the POSE and SIHY which composed less then 10% of the total composition by weight. ATCO and GRSP had slight use. The ARSP5 was dormant and the use was not determined on it. Ephedra where present had heavy use. Horse sign (stud piles) was scarce, but 5 horses could be seen from the transect in the same vegetation type.

Hogy Suchlitze

Where CHVI is present it is hit hard.

Range Utilization
Key Forage Plant Method

SIHY mostly in the brush

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<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 19)

Peach-heavy TIAA-heavy KF#2

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<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

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<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

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<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

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	3-92	(6) Operat	or/Allottee	the state of the s	(7) Flold	Name or	Xo.		
(4) Vegecation DAPE (9) ARTRU SINU POSE STT (11) Use Períod (1	Canyor Range Site	John	TUVVICK (10) Kind	<					
(4) Vegetation The	Range Site	•	(10) Kind(	(s) & Class(s) o	f Grating Anima	1(0)			
ARTRY, SINY, RISE, STIT	137. FEIR	2. SYMPHICI	411						
(11) Use Period (1	2) Grazing	Management System							
(13) Transect Location/Key Ares No.			KF05						
COAL #5 Widherso	Canu	(1)	RF 3	1544		1			
1	Mid-			P05 C	Constan	15/1	UPH	- 1	トトノー
(14) Use Rating of	Point		pecies	Frequenc	Species	1 -	Key	Spe	cies
Current Year's Growth	(x)	(f)	(f) X (x)	(f)	(6) V (-	/ FI	equenc	y .	m v .
	1	(1)	1(1) ~ (~)	1-10	(f) X (x	4	(f)_	4	f) X (>
No the 1961: The pungeland shows he evidence of use by grating extends.						1	1	1	-
	-		1						1
	0			1			1		1
		-		-					1
Flight (1-201): The progetand has the approximate of				1		1	1	1	)
very light grazing. The her hertocoost former plants may be topped or elightly used. Corvert senterally	1		1.			1	1		/
Flight f1-2011: The peopline has the apportunce of very light grained. The her hericonous forage plants now be together one of Carront scotchills and prome plants of her hericonous species are listle disturbed. The contlibits incours of her brown plants now listle disturbed.	10			1			1		1
	1	1, .			-	<del> </del>	+	+-	<del>                                     </del>
time (1)-let): The respelled may be topped, plimed, or grains in persists. Do low value bertecome plants new surprased and 60 to 20 percent of its number of surrout ponducally of her bertecome plants remain						1	1		
surrout boodersits of her herhoseous pleats retails totact. Heat pound plants of the boy species day	1					1	1		
secart, Sucr primar plants of the lot special for undesaged, Little or m me of low value plants. There is sortions oridinas of leaser set. Do ornif- shie leaders second crustes or broaded in Section and	130	2	60			1	1		
the Ley brune plants has been pured.		~	40			1	1		1
Suggraphs (4)-9Ph): The magazand appears settraly	1			1.		1.	+	+-	<del> </del>
inversed as uniformly as usual between and hell- lities will allow. Fifteen to 25 percent of the tem-				1	1	ľ	1	1	
horryte [4]-0741: The Empland appears strively nevered as smilerally as antaral Secures and Smill- ticle will allow. Fifteen to 25 persons of the num- ber of nurvent acceptable of toy between species runnin letters. To may then if percent of the number of low teles betweenous foruge plants or utilized. Secure plants appear rather stailers willied and of the 45 persons of the accidable lender growth of key browne plants has been removed.	50			1	1	1			
Provide plants appear rector eniformly stilled and of to the persons of the assisable leader growth of	50			1	50	1	50	12	100
Control of the Contro					-		1	_	
Serve [6] -80-11 The respected has the appearance of nome arts search. Bay betweeness species are almost some letter training out hose than 15 present of the neutron posterially running. Bests of thirmstones graines are measure, Bure than 15 present of the number of Low value, Bert than 15 present deposition of the value between the foreign plants have been utilized. The preferred between plants are bridged and some plant claume and the tightly broken. Bestly all swalingle leaders are used and fee terrainal bust remove as her between plants. As overestancing 10 to 80		П		2					1
correct becorning remains, Beets of thisenstone graces are messag. Res than 18 percent of the				ы			1	1	
names of low value bertacons forage plants have been stilled. The preferred brave plants are hedged and name about classes and he stilled broken. Butly	2	D	5100		1-		/		
		8	560	a	630	′*	140		1000
persont of the nuclable leader growth of the key terms plants had been personed.				1		2	190	4	1000
Severy (\$1-10051: The respelled has a new appearance			· · · · · · · · · · · · · · · · · · ·		-				-
and there are indications of represent deverage. There is no evidence of reproduction of current developments		•				1.		"	
of her heriocrome species. Ser berioceous farmer species are completely exilized. The remaining stude is of sectored granes are grained by the sell burface.						2		"	
of preferred grasses are grand to the sell surface. There is no oridence of terminal buds and \$1-1001 of remitable loader greeth on the lay broom plants has	90	1	90	2	100	2	180	4	316
teen received, Some, and often tout, of the 3rd and 3rd year's growth of the traves plants has been still- 13rd, Sodging 15 readily apparent, and the levens	10		10		180		100	- 1	100
glants are more frequently brease.									-
					^			-	
TOTAL		11	7/0	12	860	-	_	0	74
. Σ f	x							-	<u> </u>
Average Utilization = Ef	*	45	00 1	7:	2070		- 1	•	749
REMARKS (Use back of she	et)								

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), Where f = the frequency or number of observations and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 198)

(1) District (2) De	150	(3) Observ					
	1-92	Wilts	or/Allottee	Clitchim	V.		
	Notwest No. Chik	(6) Operat	or/Allottee	1.	(7) Floid	Name or No.	
(8) Vegetation Type (9	Range Site	s Sta	M CLIGITO	1 4 (100)	Dun	thu C	
			(10) 2236(	., 4 (1235(3) (	to the same of the same of	.(0)	
(11) Use Period (1	2) Grazing	Management System					
(13) Transect Location/Key Ares No.							
2000 lo Pl	1200 E	Cours C					
4	0	10000		CHNI		SIHY	
(14) !! 5!	Mid-	Key S	pecies	Key	Species	Key	Species
(14) Use Rating of Current Year's Growth	Point (x)	Frequency (f)	(f) X (x)	Frequenc (f)		Frequenc	Y CO
	1-12	1	(T) V (Y)	(1)	(f) X (x	(f)	(f) X (x
be fire 1941: The transvised shows no evidence of use by gracing entents.				1			
	0						
	1						
		-		<del> </del>		-	
Flight (1-201): The peoprised has the appearance of very light grating. Be bey hertocoom forage plants		- :					
very light grained. The key herbecoust former plants may be topped or glighter most. Current constalls and pump plants of key herbecarus species are little distorted. The smallants instern of key breeze plants see little distorted.	10	٠.	,				
distorted. The socilable looders of by broom plants now lattle discurbed.							
tiple (1-let): The respelled may be topped, skimed.							
in the (1)-lot): The respected may be topped, plisted, for graine in penches. The low value betweened plants are ungraved and 68 to 50 percent of the moster of nurses penches and nurses of nurses penches penches penches penches penches penches penches penches nurses nurs							
undersigned. Little or us upo of low value plants.	1_						1
phis locarry appear croppes or bround in persons and 21 to 40 persons of the semisable londer growth of the key brown plants had been reterred.	30						
				-			· · · · · ·
Rederives (43-09%). The magazine appears netirely deverted as one levely as natural fluctures and flucia- titios will allow. Pitcoss to 3 percent of the nat- ber of neurons seederalize of key herhorous species remain factuatt. To more than 18 percent of the names of low value herhorous forage plants are utilized.							
but of survent predetable of boy bettermen species runcle better, he more than 16 percent of the names	100		,	• •			
of low value herhaceous forage plants are stilled- brown plants appear retion uniformly stilled and of no the purvent of the anniable leader growth of buy browne plants has been proceed.	130	3	150		100	2	100
boy brance plants had been recoved.		14.		2		-	
there (4)-00-1: The respond too the appearance of song late search. By beta-count species are alone						1	
completely utilized with loss than 16 persons of the marrest accordable punished. Second of this contents		h					
some iris search. By brincoust species are bloom come lets by utilized out less then il propose of the nurrout peoderalla remaining. Seem of thiremeters granes are tracking. Seem is persone of the number of less union between their less than utilized. The preferred braves plant here been utilized. The preferred braves plants are hedged and some plant alongs are to stightly breaten. Bearly all sentiable leaders are used and few terminal heat means as a few formers along. Recruitmitts all to M.	70					-	
and some plant clumps has be milghtly bream. Bearly all somilable loaders are used and for terminal banks monata as her become sizes. Secretaintals at to 80	1.0	<	350	• •	350	١.	MACH
remain on key browne plants. Approximately 61 to 80 persons of the mulliable looder growth of the key browne plants had been recoved.		)	9	~		,	420
Service (\$1-1005): The rougeland has a new appearance				5		4	
and there are indications of reproduct severage. There is no original of reproduction of current seedstalks		, ,					
of her herhocoust species, for herhocous forage species are completely exilized. The remaining studels of conference creames are creamed to the self herform.		1		, ,			
of preferred grasses are grassed to the sell surface. There is no evidence of terminal buts and 81-10th of evaluable looder growth on the Ley tryons plants has	90	3	270	•	270	•	270
rvalible looser grout on the ler rrows plants had been removed. Some, one often both, of the lad and led year's growth of the browse plants had been still- land. Sudging is readily specient, and the browse	10		, ,	3	5 10	3	0 10
plants are more frequently broken.							
					20.		
TOTAL		11	770	10	120		790
Σ:	fx .	7	00-		200	70	0
Average Utilization = Ex	7 4 4	/(	270 1		1290	/ 0	90
REMARKS (Use back of she	clj						

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

Range Utilization Key Forage Plant Method STTHA is showing fall quentup.

Symbh seen walking to casi

(4) Resource Area (5) Allotment (6) Operator/Allottee (7) Field Name or No  The Custom Type (9) Range Site (10) Kind(s) & Class(s) of Grating Animal(s)	
5 Rodon Cres K Stein Celesora Summer	
(8) Vegetation Type (9) Range Site (10) Kind(s) & Class(s) of Grazing Animal(s)	
MITCH SUMMY STTUD, POSE, SHY	
(11) Use Period (12) Grazing Hanagement System	

JOAK -= 17-12 3 circina SIXY STTNO 3009 CHVI SNIFW Key Species Mid-Key Species Key Species Point Frequency (14) Use Rating of Frequency Frequency Current Year's Growth (x) (f) (f) X (x)f) (f) X (x) (f) (f) X (x)to the 1941: The traggland shows no oridones of use by graining seconds. 0 <u>Plict fi-201</u>: The propried has the apportune of very Light France. The her bursaceous forces plants for he topped or plightly used. Current sectorists and young plants of key heriocome species are little disturbed. The smilishis lenders of key broom plants are little disturbed. 10 5 50 in per (3)-bol): The runquiand mer be topped, thinned, for grained an penchen. The low value bertocrees plants are ungraved and 60 to 60 persons of the number of curvent decelerated of their bertocrees plants remain search. Best years and search their years plants of the best press are undersped. Little or me use of low value plants. There is a featured originate of lances use. The resilential benches are presented the search of the persons of the smallest lenser growth of the key bronce plants has been pummed. 30 60 Newtype (d)-oPhl: The propeland appears sectively nevered as uniformly as astural features and Smil-lities will allow. Fifteen to 25 persons of the me-ber of current accedentials of low between species runnia lestest, to mere then 15 persons of the mine of low value services thereopy plants are utilized. Evous plants appear better uniformly utilized and at the 66 persons of the semilable leader growth of low brunes plants had been removed. 150 5 50 250 3 Query (6)-90-1: The resonant has the appearance of son usia search. Bay bernaceous species are almost completely utilized each loss than 18 persons of the neurrous secentials remaining. Bases of shipmentous grances are status, Rure than 18 persons of the number of few makes betweenous force plants from boom utilized. The preferror bewess plants are house of state of some plant along any new self-ship because the singlety broads. But if you have not not stately because have plant along any new self-ship to be present of the sealched leader growth of the SP persons of the sealched leaders growth of the SP persons of the sealched leaders growth of the SP persons of the sealched leaders growth of the SP persons of the sealched leaders growth of the SP persons of the sealched leaders growth of the SP persons of the sealched leaders growth of the SP persons of the sealched leaders growth of the SP persons of the sealched leaders growth of the SP persons of the sealched leaders growth or the sealched leaders growth of the SP persons of the sealched leaders growth or the sealched leaders growth g V 6 630 560 10 490 40 Fevery (11-1091). The renge land has a new appearance and there are indications of reported severage. There is no evidence of reprediction of current securities of her hericecomes specials. The remaining studies of preferred granes are graned to the sell serfect. There is no evidence of terminal bade and \$1-100 of realizable lender greets on these been repredict by the sell section. There is no evidence of terminal bade and \$1-100 of realizable lender greets on their troops place has been reserved. Some, and often such, of the 3rd and 3rd year's greets of the streets places has been existent as the second places. So defined it readily separant, and the breeze plants are note frequently second. 90 270 90 90 360 12 800 12 129 11 760 TOTAL 35-70 6500 6790 7690 Average Utilization = Ef \* REMARKS (Use back of sheet)

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma =$  the summation symbol. NV 4400-12 (January 198

### Range Utilization Key Forage Plant Method

CHOUST TOROG 2) Should be on Bud Sage Laurchau Stag 3) Sym Low Tensor

KF#8

Fin Dagger The Burk (I) District (2) Date (3) Observer 11/4/92 WINNEMUCA BERGWAD SFIFY, LIVINGSTON (7) (4) Resource Area (5) Allotment (7) Field Name or No. S.G ZNDED CERESOLA (8) Vegetation Type (9) Range Site (10) Kind(s) & Class(s) of Grazing Animal(s) (11) Use Period (12) Grazing Management System

(13) Transect Location/Key Ares No.							
Compraise Co	C						
	Mid-		pecies		Species		Species
(14) Use Rating of Current Year's Growth	Point (x)	Frequency (f)	(f) X (x)	Frequency (f)	(f) X (x)	Frequency (f)	(f) X (x)
he has 1041: The progressed shows he processed of most by gracing methods.			3-7		13.00	1-1-1	11100
	0						
Flight fi-2013: The reagainst has the appearance of very light grainst. The key hermaness former plants have be topout or tilts for he topout or tilts for he topout or tilts for he topout or tilts for herman species are little distantion. The southand lendors of key herman plants have little distantion.	10	2	20	:: 4	40	1: 5	50
The reaching the reaching for its targed, ptimmed, for grains in procless. The low value betweeness plants are uncreased and 60 to 20 persons of the temporal formation of the betweeness plants of temporal persons are continuously. Little or as one of the wine plants are continuously. Little or as one of the wine plants. There is portion or defined at leastery against crupped or browned is proches and 12 to 60 persons or the prelimination of the prelimination of the present of the prelimination of the present of the prelimination of the tery branch of the large branch plants has been painted.	30			: 3	90	: 3	96
converte (f1-50%). The tangeland appears switzely sovered as stirlerely as interest finitures and facilities will allow. Fiftees to 22 percent of the mean of fourtrees soudcaille of key hericorous postess vanile locart. To save that if percent of the melow of low values heritage here force plants are willfood revoke plants appear rather suffering stilling and it so to prevent of the smilled leader growth of my bruves plants has been recovered.	50			3	150	2	100
incove f(1-00.1) The propriete has the appearance of one arts hearth. Bey bern-count species are allowed one letely stillined seth less than 18 percent of the heartest proprietable passaning. Some of this present of the memory of leaves that the present of the sentence of the value between the figure places are beinged not sentillized. The preferric brown places are beinged most settlined. The preferric brown places are beinged most sentillized. The preferric brown places are beinged most sentillized. The preferric brown places are beinged not sent place claims not be singletly brown. Bearly 11 sentilet be leadery are used and for terranel best mouth on they browned plants. Supermission of the Berryanes of the position beat present of the berryanes of the best provide plants for the beat pla	70		70				
Severy [1]-[cq1]: The respection has a none appearance and there are indicartions of reposted severage. There is no evidence of reproduction of current benefits as the evidence of reproduction for current benefits for the between processes. For terrisonant fortige species are completely million. The remaining stockle of professoring graness are grand to the soil surface. There is no evidence of terminal bade and SI-10% of remailable loosed grants on the law zone and SI-10% of remailable loosed grants on the transplant has been seen treasured. Some, and often back, of the Dod and leer year's grants of the invest plants has been stillized. Redging it readily apparent, and the levense plants are not frequently brease.	90	2	180			The state of the s	
TOTAL				10	280	10	240
$\Sigma f$ ; Average Utilization = $\Sigma f$	*		-	28	20	24	20
REMARKS (Use back of shee	et)						

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

PUTE. NO HEDSING ON SLIGE 1 PUTE SEEDLING FOUND

UNITED STATES EPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5 HH

17 MM

4 MM 12 MM

Range Utilization Key Forage Plant Method

24 MM

LMH 10MM

(1) District (2) Dat		(3) Observe	11				•
WINNEHUCCC 11/5/ 4) Resource Area (5) All 5-G	92	BRICE	かいしり, ひた	25671	(7) Floid No	and or Vo	
A) Resource Area	DED	(0) 0001811	ATTOCCES.		(/) /1010	or no.	
5 - G  a) Vegotation Type (9)	Range Site		(10) Kind(s	) & Class(s) of	Grating Animal(	5)	
a) Aefocracion illo							
11) Use Period (12	Grazing H	anagement System		,	,		
13) Transect Location/Key Area No.		_					
TICHED C		PUZZ		Pos Key s		SINY	
	Mid-		pecies	Key S	pecies		Species
(14) Use Rating of Current Year's Growth	Point (x)	Frequency (f)	(f) X (x)	1 requency	(f) X (x)	Frequency (f)	(f) X (x
to the (CA): The rendelland shows no evidence of use	(/			Z			1-7 " ("
T freilig wimit.							
	0			9	0	4	0
light (1-205): The procedured has the appearance of							
tight (1-20) in pagetter or the pagetter or light grating. The toy bethereone (arguetter of the toy to the pagetter of the toy of th	10	8	00				
tint (21-col). The respected may be topped, stimed.				•			
registed is petches. Do now relies intractions plants or ungrated and ad its P percent of the under of activate receivable of the herescenes plants results as far herescenes plants results asset. But you plants of the lar species are asset in the percent of the meaning of a little or one see of low ratios plants, here it sevents ordered on the series plants, here it sevents ordered of losses seen plants, here it sevents ordered or five series plants and its electron power component of the hereits in the large hereits plants has been reserved.	30	2	60	1	30		
toderes (41-001). The received appears metroly invited at uniformly as natural features and forsi- title will allow. Fifteen to 25 percent of the bod- ent of correct secretally of loy beforeous species remain letter. We were than 10 percent of the number follow ratios nevinceous forsign plants are untilled. From plants agree makes on forsign plants are untilled. From plants agree makes uniform the percent of the received is a beginning to the percent of the central plants of the bound plants for been reserved.	50						
theory fall-forty. The recycled has the appearance of implicite rearch. By bethecomen species are almost implicitly rearch. By bethecomen species are almost implicitly rearranged from the property of the companion of the control of	70			•			
fevers (E:-100%): The rangeland has a now appearance one there are indications of repeated creating. There is no extracted of expected creating. There is no extracted of reproduction of common creations in a serious control of large process are two interfections. The control of the control	90						
TOTAL		10	140	10	30		
$\Sigma$ f Average Utilization = $\overline{\Sigma}$ f REMARKS (Use back of she	*	10	490	3	90		

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), Where f = the frequency of number of descriptions x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)

(1) District (2) D	410	(3) Obs	1991				
WMCA III	12/9:	1 4	ccutch	ion			
(4) Resource Area (5) A	liothent	2	SESTIOLIA TESS			Mane or No.	,
(8) Vegetation Type (8	DA ( )		(10) 110	6(s) & Class(s)	of Gratias Anima	- Summ	27
			Cow	s. Horsas	Wildlife		
(11) Use Period (	2) Grazing	Management Syst	44				
DIE WICH							\
(13) Transect Location/Key Ares No.	ape	SP, SIH	Y POSE	= BHVI	AR- (SF	IVE YILL:	LEUJ
Charles and the same of the sa	Mid-	GR	SP Species	1 -	Species	C++-V-	11:0
(14) Use Rating of	Point			Frequen		Frequen	Species
Current Year's Growth	(x)	(f)	(f) X (x		(£) X (x)	(f)	(f) X (x
by Dec 1751: The projections shows no evidence of use by grating sounded.	·						
\$\frac{27-27\1}{100}\$ The congrised has the appearance of very stapes (Finish). The fee best-scene Strings plants that the stapes of elificity used. Current sensitially and young plants of her heroscene species are listle destructed. The multiple locars of her brove plants are lattle distourted.	10						
Light (71-bit): The respected our be topped, skiemed, for graced at perchare. The loss value bertesowns plants are secretarile and of the fit prevent of the humber of neutrons tonotecable of her humbercount plants remain sectors. Best prince plants of the key species ore underspeed. Little or to use of loss value plants. There is derived or crisines of limiter wit. The proof other humbers appear coupsed or braced in patthree and 21 to 46 percent of the postable leaster growth of the key braces plants have been possered.	30	6	60				
Procurse (d)-0011: The suspensed appears entirely browyes at stale-off to natural features and feature litter stall alies. Pifteen in 25 persons of the tem- ber of survives productals of the feature of the tem- ber of any process from the process of the tember of few tembers, the nove than 16 percent of the tember of few tembers, the natural part of the tember of few tembers, the process from the part of the broade plants appear return on fronty utilized and at the 46 percent of the sections leader greats of lang broade glants for language of the process.	50	ļ.	300	<i>a</i>	100	8	•
Speech filestit The proposant has the appearance of finishment search. See herecome species are almost complete processes, for herecome species are almost controlled processes, in the season of herecome of the seasons, there has been desirable from the between the tile processes are declared, there has been been as the file of the value between the tile processes are declared from home outlined. The preferred betwee places are hedged and some place though me to telligatif present. Sharip all amaidable benders are need and for hormonic host processes only the processes of the arminal base process of the processes of the arminal base process of the arminal base been become places and the process of the hop process places are processed.	70	0	140		560	• 4	
Surveyo [7]-10031. The Punceload has a most appearance and Larry are inclearables of represent privates. There is an evidence of reproducties of auritor sections. There is an evidence of reproducties for auritorial fortige species are completely existed. For terminating studies of professor graines or grained to the seal forfact. There is an evidence of termination and SI-1001 of presidence to confer the seal forfact. There is no evidence of terminations and SI-1001 of president product private to the termination of the form the seal of the	90						
TOTAL		10	500	10	460		
Σf; Average Utilization = Σf	2	50	%	ا ماما			
REMARKS (Use back of shee	t)					+	

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

### KF# 11

(1) District (2)	Date	(3) 0	present				
WMCA II	12/92	M	CCutchas	on			
(4) Resource Ares (5)	Allotment	(6) 0	Perster/Allottee		(7) Field N	ane er No.	
SG Ro	dep Crea	K Sta	un Ceresolo	,			
(8) Vegetation Type	(9) Range Sit		(10) Kind	(s) & Class(s) of		(8)	
			Cows	Horses, L	dildlife.		
		Management Sy	sten				
Summer (13) Treasect Location/Key Area H							
	o	No. 10					
THE CATTER		14. CO	1	The same of the sa	Lirk		
		-C	35	514	1		7.1.
	Mid-	Ke	Species	Key S	pecies	Key :	Species
(14) Use Rating of	Point			Frequency		Frequency	1
Current Year's Growth	(x)	(f)	(f) X (x)	(£)	(f) X (x)	(f)	(f) X (x
to the 1951: The orageland show to oridone of unity grating seasols.							
Place fi-SM1: The respelant has the appearance of tery lages granted. The her bernacemes forego places for the fee of the						o	10
into (72-lot): The respected my to topped, shiften for graned at practice. The ine value between plant are ungraned and 60 to \$2 persent of the instance of currents secondarialise of the hunterous plants remain antact. Short poung plants of the key species set undersqual. Little or us use of low to be plants. There as obvious or claimes of loader unit. The available loaders appear suppose or bround in patches on \$22 to 40 persons of the newalful loader growth of the key browner plants has been preserved.	30					8	90
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TOTAL	•	10	680			10	420
Average Utilization = $\overline{\Sigma}$	fx f	68	7.			42%	
REMARKS (Use back of sh	ccij						

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), Where f = the frequency or number of observations, and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Winnemucca District Office
705 East Fourth Street
Winnemucca, Nevada 89445

In reply refer to:

4700 (026.14)

June 10,1992

Henomanoum

1-:

Sonoma-Gerlach Area Mana

From:

Leigh Redick, Range Conservationist

Subject: Use Pattern Mapping the Rodeo Creek Allotment

Use Pattern Mapping data was collected June 1 and 2, 1992 by Peggy Wiltse, Debbie Anderson and myself on the spring range of the Rodeo Creek Allotment. This data was collected to determine the amount of spring use by cattle and wild horses. The area was covered in a four wheel drive pickup and by foot. The weather was not and sunny with temperatures in the high 80's and low 90's. Six utilization classes were used: no apparent use (0%); slight (1-20%); light (1-40%); moderate (41-60%); heavy (61-80%); and severe (81-100%). 4010 acres of no apparent use, 1540 acres of slight, 13483 acres of light, and 2789 acres of heavy use were mapped. The key forage species with the highest utilization were used when coloring the map.

### East Side of the Fox Range

Fey forage transect #1 was at Trail Canyon. Use on Pose was 16.3% and on Stth2 22%. Three cows were sighted in the area. We also stopped at Little Rattlesnake Canyon, Rattlesnake Canyon, Coyote Creek, Cottonwood Basin and some other unnamed drainages on the east side of the Fox Range. Key forage transects were not conducted in these areas since they were very similar to FFT #1. Grass cover was very sparse throughout the area (mostly under transective shrubs), and all vegetation was showing the effect of the drought. Fight horses, five antelope, and I mule deer were seen in the vicinity of Cottonwood Creek.

#### West Side of the Fox Range

AFT #2 was at Smith Canyon: Key species were: Grsp (use 30%), Chvi (use 59%), and Epne (use 79%). Grasses were very scarce again. Arsp5 Was not used as a key species because it was dried up and use was difficult to determine. There was very little leaf development on Grsp this year. Four cows and one horse were seen at Smith Canyon and seven horses were seen near Lost Creek. The area from Wild Horse Canyon to Lost Creek was barren except for scattered

gramewood which was heavily utilized, and dried up Sialz. Artrw. Atco, and Grap were growing in the draws. This area looks like it has had very heavy use in previous years. Water sources in the area are about dried up. Lost creek and the adjacent canyon to the south had some water but it is just a trickle and won't last long. Wild Horse Canyon is now the only water source in this part of the spring range.

Range Utilization
Key Forage Plant Method

- EPHEDRA present was heavily hedged - STTH2 found where it was rocky or partially Protected by Shrubs

KFT #1					- 5aw 5	ed by 5	rubs	J Trum
,	Date	(3) Observ		LV	at to	everal sh get at scover	grass	ir. 4
WMCA (5)	Allotment	(4) (2007)	or/Allottee	edick	Shr Cab	S'COVEY		-
	odeo Creak		Ceresola		Sonna			
*) Vegetation tree STTNA.	(9) Range Site	July	(10) And(s	) & Class(s) of	Grazing Anima)	•)		
11) Use Period	(12) Grazing P	ianagement System						-
13) Transect Location/Key Area &	lo. ,				\			
Trail Canyon - tro	insect e	very 50	105	T/15 420	is great	7		
V	Mid-	POSE YOUR	pecies	STTHR	Species	ORHY	Specie	SINY
14) Use Rating of	Point	Frequency		Frequency		Frequence		3
urrent Year's Growth	(x)	(f)	(f) X (x)	(f)	(f) X (x)	(f)		x (x)
Day 1961: The reactions show no orisines of the	the same of the same of the same of	17					1	
grating on the Le.	0	·H'	0	• /	0			-
ight f1-2011: The roughland has the approximate by Light gracing. The her herincomes foreign plan to toppool or slightly used. Current sociotable ground planess of key herincomes specied BY Litteriods. The smallable lenders of key here by Little disturbed.		<b>:</b>	50		50		•	
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TOTAL	1	16	260	10	220			
Average Utilization = REMARKS (Use back of s	Σfx Σf *	16.3		2	2 %			

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column),  $x = the class interval midpoint (x column), and <math>\Sigma = the summation symbol.$ NV 4400-12 (January 1982)

### Range Utilization Key Forage Plant Method

- Lutte arough this years

- APER In your motor

KFT #2								- hother	Lea	h thi	in year.		
(1) District	(2) Date		(3) Observer										
(4) Resource Area	6-2	2-92	1	U.14									
	(5) ALL		(6	) Operat	or/Allotte	10	ice, Aco	(7) Field	Name or	No.	_		
5-6	tone	O Cheet		N.O.K	(0152	1a		Oping pasture					
ATO NEOF SECRE	(9)	Range Site		Stan Coresta Dring Pasture (10) Kind(s) & Class(s) of Grazing Animal(s)									
(11) Use Period	(12)	Grazing H	lanagemen	t System									
(15) Transect Location/Key Are	es No.	C		-500		4	-lain	1 - G1	-01.N-				
STATUS COMMENT - SCHOOL STORES THIS YEAR'S GROWN											1		
•		Mid-	91.0	Key S	pecies			Species	- Pi	Key S	Species		
(14) Use Rating of		Point		uency			Frequenc		Fr	equency	A		
Current Year's Growt	th	(x)		f)	(f) X	(x)	(f)	(f) X (x		(f)	(f) X (x)		
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by graine minute.		Ca											
		O			O			0					
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TOTA	1.		11		330		10	590	,	6	720		
Average Utilization	Σf				-30	%		59%	<b> </b>	72%			
REMARKS (Use back of										10	70		
Tario (oso ouch o										(5	1		

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Winnemucca District Office
705 East Fourth Street
Winnemucca, Nevada 89445

In reply refer to:

(NV-026.12)

Memorandum

To: Sonoma Gerlach Resource Area Manager, Bud Cribley

From: Peggy Wiltse, Range Conservationist

Subject: Use Pattern Mapping - Winter Pasture

Dale Owen and I conducted Use Pattern Mapping (UPM) and Frequency plots on May 4,5 and 6, 1992 in the winter pasture of the Rodeo Creek Allotment on 1991 forage production. UPM was conducted using six use classes: No Use (0%); Slight Use (1-20%); Light Use (21-40%); Moderate Use (41-60%); Heavy Use (61-80%); and Severe Use (81-100%). The species with the highest utilization level was used while coloring the map. It was unseasonably warm with temperatures in the upper 90's. The acres mapped by use class are as follows: no apparent use 0 acres (0%); slight use 9625 acres (12%); light use 7327 acres (10%); moderate use 25844 acres (33%); heavy use 33607 acres (44%); severe use 0 acres (0%); and barren 618 acres (1%).

An area of 1160.89 acres of barren land was identified around White Sage Well. Key Forage #1 was conducted at the Empire Frequency Plot. The use was heavy on Orhy and slight on Cela, Arsp, and Atco.

Key Forage #2 was conducted at Three Mile Canyon Frequency Plot. No utilization Cage was found on this site. Heavy use was found on Sihy and Orhy and slight use on Arsp. Slight use was noted on this years growth for Orhy and Sihy. A lot of young Atco and Arsp plants establishing. There was some Cela growing near the witness post.

Key Forage #3 was performed at Photo Trend Plot #1, White Sage Flat. The transect was performed between the two utilization cages present. Slight use was found on Cela.

Key Forage #4 was conducted at Trail Canyon Photo Trend Plot. Slight use was found on Arsp and Grsp. Only four Orhy plants were found within the transect. New Atco and Arsp plants establishing, but the older Atco plants appears to be dying. It was very dry this year and a big difference in production from last year was observed.

Key Forage #5 was performed at a utilization cage near Rattlesnake Canyon. Moderate use was found on Orhy and Cela and slight use on Arsp. Only one Sihy plant was seen and it was heavily utilized.

Key Forage #6 was conducted on the flat 1.5 to 2 miles north of Cottonwood Canyon. Slight use was found on Arsp and Atco. The only Sihy seen was inside the utilization cage and near the road. Poa and Orhy were very sparse throughout the area. The Sihy showed no sign of growth this year and the Atco appeared to have some kind of disease. There were fresh horse tracks and stud piles in the area, but no cow sign was seen. A well used horse trail cut through the area heading toward the standing water on the playa.

Key Forage #8 had moderate use on Sihy and Cela. Orhy had light use and Arsp had slight used. The Arsp was already starting to dry up and it was hard to distinguish what was use and what had already dried up. The utilization cage was knocked over, so Dale and I put it back up covering Orhy, Cela, and Arsp.

Key Forage #9 was conducted at the utilization cage along the main road to San Emidio just as you start to go up the hill. The use was heavy on Orhy, light on Cela, and slight on Arsp. Only three Sihy plants were found on the transect. This cage is close to where Stan Ceresola, the permittee, hauls water to the cows. Light (35-40%) use was found on this years growth of Orhy.

Key Forage #10 was conducted at Three Mile Canyon. Light use was found on Sihy and moderate use on Cela. Only three plants of Orhy fell within the transect. The Ephedra was heavily hedged when present.

Key Forage #11 was on the Lake Range. Heavy use was found on the Stth2 and moderate use (60%) on Sihy. The Pose had already dried up and the Ephedra was heavily hedged when present.

Key Forage #12 was conducted in Manure Canyon. Heavy use was found on Stth2 and light use on Sihy. The Pose had already dried up. Use on this years growth of Sihy and Stth2 was slight (5%). Ephedra was heavily hedged. Selected plants on Grsp were heavily hedged, but other plants were not used at all.

The area between Manure Canyon and Three Mile Canyon is a mosaic of Grsp sites, Cela sites, and Artem sites as you move closer up into the canyons. The use on the Grsp and Cela sites was generally light use except for the few Orhy plants present which had heavy use on last years growth and slight use on this years growth. The use on the Artem sites was similar to the transect done in Manure Canyon.

Stan told me later that he had kept his cows in the southern part of the winter pasture until right before the cows were suppose to go onto the spring pasture. No horses were seen on the Lake Range while the mapping was being conducted.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Winnemucca District Office
705 East Fourth Street
Winnemucca, Nevada 89445

In reply refer to:

NV026.12 4/13/92

Memorandum

To:

Rodeo Creek Monitoring File

From:

Peggy Wiltse, Range Conservationist

Subject: Use Pattern Mapping Summer Country

Use Pattern Mapping (UPM) was conducted April 6,7,8, and 9, 1992 by Dale Owen, Amanda McCutcheon, Leigh Redick, and myself in the summer country of the Rodeo Creek Allotment. Stan Ceresola, the permittee, accompanied us on Monday. Usually this area is monitored in November after the cows come off, but due to snow and time constraints it was not done at that time. Horse back was used since most of the area is inaccessible by vehicle. Six use classes were used: no use (0%); slight use (1-20%); light use (21-40%); moderate use (41-60%); heavy use (61-80%); and severe use (81-100%). The use on last years growth was what was monitored. The weather was sunny and breezy with temperatures in the upper 60's. Sihy was used as the key forage species when coloring the UPM. 22,717 of moderate use and 425 acres of heavy use was mapped.

Key forage transect #1 was at Bull Basin. The use on the Sihy was 58%. Two antelope and three horses were seen near the cage. Key forage transect #2 was at Coyote Creek. The use was as follows: Sihy-54% and Pose-58%. We saw 1 deer and 6/1 horses between cages 1 and 2. The third key forage transect was conducted at Juniper Flats. The area is a highway of horse trails and is close to Juniper Flat Springs. The use was as follows: Sihy-56% and Pose-68%. Transect #4 was in the Pole Canyon Allotment. The cage is on a saddle close to the allotment fence where you would expect the use to be heavy. I suggest putting another cage off the saddle because that may better reflect the use in the area. The use was as follows: Sihy-68%, Pose- 66%, Symph-40%, Chvi- had heavy use on scattered plants, moderate use was found on Feid plants found in the open, and the Amal plants present were heavily hedged. At key forage transect #5 the use was: Sihy-56%, Pose-62%, Symph-54%, and Chvi and Feid had heavy use when present. Both the Symph and Amal have been heavily hedged in past years. Four mule deer were seen on the ridge north of where the transect was done. No key forage transect was done in the Cottonwood and Smith Canyon areas, but the use there was moderate use on the grasses and heavy use on the shrubs. In Smith Canyon Grsp, Chvi, and Save4 were heavily hedged. Use on this years growth appears to already be at 40%. Production this year is behind what it was a year ago however.

Beggy Sue Wiltre

- 2 Antelope } near cage

Range Utilization
Key Forage Plant Method

Photo # 465

(l) District (2)	Date	(3) Observ	ret									
	4/6/92	Wiltse Redick, McCutcheon Oven + Ceres of										
.,	Allotment	(6) Operat										
	codes Cree	c Star	nner									
(8) Vegetation Type	(9) Range Site	reet Stan Cerescla Summer (10) Rind(s) & Class(s) of Grazing Animal(s)										
(11) Use Period	(12) Grazing	Hanagement System										
(15) Transect Location/Key Area	16.		2056									
cage 1 At	1AR8,51	MY, STT	Na Twe	-	7712	1 POSE						
3	Mid-	SINY	pecies		Species		Species					
(14) Use Rating of	Point		Piccies	Frequency		Frequency	A					
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ijper (71-let): The runquiend may be topped, shin or graned in pecker. The low when between the new ungraced and ol to 80 persons of the member of surrout homobrails of buy berhoused plants runnin inchet. Here promp plants of the buy species 600 undersped. Little or to use of les value plants. There is stricted orthones of leader use. The run halt leader uses a surround at the county is not the.							,					
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			1.1100			4.						
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boun pumpred. Some, and often tech, of the 2nd on led year's growth of the brown plants has been on tand, studging is readily apparent, and the browns	710											
plants are more frequently breast.				87			•					
TOTAL		10	580									
	Σfx		60									
Average Utilization =	Σf *	1 - 5	890		N. C.							
DEMARKS (lice back of	cheat)											

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)

64. horses between

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Cagé HI ÉZ I deer

Range Utilization
Key Forage Plant Method

Photo # 6-7

(1) District	(2) Des											
(4) Resource Area	1//	1/92 lotment	(6) Operat	Name or No.								
	ROO	wock										
(8) Vegetation Type	(9)	Range Site		(10) Kind(s) & Class(s) of Grazing Animal(s)								
(11) Use Period	(12	) Grazing M	Hanagement System									
(15) Transect Location/Key A	res No.	0-c M	, Juniper	c EIN D	055. Ri	ocs STT	· H.					
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		Mid-		pecies		Species		Species				
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тот	AL.		10	540	10	580						
Average Utilization	Σf	× *	The second secon	1-70	NATION.	890	- 1 - 1 - 21					
REMARKS (Use back of	of she	et)			1000	0 / 0						

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

(1) District (2) Dat	•	(3) Observ								
	1.190	McCutcheon, Redick Owen, Wiltse & Cerresol (6) Operator/Allotted (7) Field Name of No.								
	lotment	(6) Operat	M/Allotted	ecies 0	(7) Field No	ine of No.	riespia			
SG Rodeo	Creek	5+an	Cerreso	la	1					
(8) Vegetation Type (9)	Range Site		(10) Kind(1	i) & Class(s) of	· .					
(11) Use Period (12	) Grazing	lanagement System								
(13) Transect Location/Key Area No.										
Caq # 3 Atem	SIHY	Juniper	BRTE, PO	OSE STT	H2					
	Mid-	Pos Key S	pecies	SI Key	HY Species	Kev	Species			
(14) Use Rating of	Point	Frequency		Frequency		Frequency				
Current Year's Growth	(x)	(f)	(f) X (x)	(f)	(f) X (x)	(f)	(f) X (x)			
No Die 1941: The rangeland shows no ovidence of use by graing seizels.	,						-			
	0									
State (1-201): The rescribed has the appearance of										
Flight (1-104): The rengeland has the appearance of very light grazing. The her herenceous forage plants now be tapped or slightly mod. Curvent acceptable and young plants of her herenceous species are Little	10									
and young plants of bay herocomous species are Little disturted. The available leaders of bay brooms plants are lattle disturted.	1./0									
higher [7]-[04]: The renquised may be trapped, stimmed, or grands in packets. The law value herizocome plants are ungrand and 60 to 80 persons of the number of surrent possentials of the representational plants by the content of the surrent possentials of the performances plants by the content of the surrent possentials of the performances plants by the content of										
Lacars, Noot young plants of the boy motion or	30						,			
undescoped. Little or no use of low voice plants. There is obvious orientees of looser use. The oveil- shie looders agrees recepts or become in patties and 21 to 46 percent of the svalishie looder growth of	30									
the Ley bronce plants has been removed.										
Indertyle (41-401): The tungeland appears entirely devered as unifertly as astural features and finil- tiles will alies. Pitcess to 25 percent of the num- ber of survent seedstalks of bay bertaceous species		•		FT						
remain intact. He more than is portion on the money	50		50	4 6	250					
brune plants appear success uniformly stilled and all so de persons of the autiliable leader growth of buy brunes plants had been reserved.	30		50	7	050		- 1			
Serv (6)-80-1: The respeland has the appearance of complete search. Bey bertacoust species are almost		47 0 "	-							
complete search. By herescous species are almost completely utilized such less than 10 present of the current neederable remnaints. Secret of this commons grances say missing. Nove than 10 percent of the	- \	Ц	,							
number of low value heraccoust forage plants have been utilized. The preferred beause plants are indeed and some plant clumps our be plightly broken. Bearly	70		630	/ I have at	210	i waxay				
all sealiable leaders are used and few termine buds runnin on key bevose plants. Approximately 61 to 80 persons of the sealiable leader growth of the key brome plants has been recoved.		9		3	210					
	* •					1.4.	. · ·			
Severy [1]-1001: The rangeland has a mean appearance and there are indications of reprected governor. There is no evidence of reproduction of curvoot needstalks of her horizonous meclas. Say bertacome forage										
of bay heriocrosse species. Say terrocross corago species are completely etilized. The remaining stable of preferred grasses are grased to the soil surface. There is no evidence of terminal bade and 81-100's of	7									
evaliable leader grouth on the bey brown plants has been removed. Same, and often much, of the 2nd and led year's growth of the browne plants has been still-	90									
tree. Hedging is readily opporent, and the brown . plants are more frequently bream.	1	×	*				ft.,			
		10	680 90	/ -	K1 A					
TOTAL		10	000	10	560					
Average Utilization = $\overline{\Sigma}$ f	^ ·	68	90	56	90					
REMARKS (Use back of she	et)									

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)

# use on this years growth appears to already be 4090

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Range Utilization Key Forage Plant Method Chvi - heavy use @ stop2 FEID - moderate use@stop4 AMAL - heavily hedge@ 5top10

						10	st years	Saruth	
(1) District	(2) Date		(3) Observ		1 11			9	
Winnemucca	4-9-0	72	Wi	Itse, Re	dick				
(4) Resource Area	(5) Allotmen	30	(6) Operati	DE/ALIOTTOG		(7) Field h	ame or No.		
5-6	Pole Ca	nyon	Loho	TONIC	) & Class(s) of				
(8) Vegetation Type	(9) Range	Site	(6)						
(11) Use Period (12) Grazing Management System									
(15) Transect Location/Key Are	12 No. ever	45P	aces 1	MAL	Tevet	cu . 21 .	-C.D. 004-	21	
KE #4 DOA	1 3144	KID	ES, HRVA	A ARAKE	PINOL	symph,	-EID, CRAC	DEIPH	
			POA		JINY "		HAWAS		
		id-		pecies		pecies	key	Species	
(14) Use Rating of		oint	Frequency		Frequency	1	Frequenc		
Current Year's Growt	h	(x)	(f)	(f) X (x)	(f)	(f) X (x)	(f)	(f) X (x)	
No the 1943: The pungeland shows no evidence by greaten samels.	of use							-	
		0							
Slight f1-20A): The rangeland has the appear very laget grains. The key hericacean foreign have be topped or slightly used. Corrent tools and young planes of key hericacean species are distorted. The smallable locater of key bree sey lettle distorted.	once of plants realist plants or livele plants or plants	0		,			, 1	10	
light [2]-held]: The respectant may be impose, for Thints An posthest. The lies water therefore the respect of the test of	percent of the number of herhosocous plants remain as of the key special see use of law value plants.		,	30			4	120	
Nucerve (d1-051): The rangeland appears not inverted as uniformly as notional Sections and Ities will allow. Pifrom to 25 percent of their of current seederalls of by berthecom syrumin intent, he serve them 15 percent of the of low values heritage plants appear return uniformly utilized it to the purcent of the anniable before greet by brunner plants appear return uniformly utilized it to the purcent of the anniable before greet by brunner plants had been runered.	trely finali- to the position is transver ilised. d and th of	0	•	50	, _	50	· · · · · · · · · · · · · · · · · · ·	200	
Nove (61-80-1) The responded has the appear completely mailised with less than 15 present oursets accurate accurate accurate accurate accurate present accurate accurate present from 18 present of manuser of low value horizoness force plants is not soon plant along nor be significable from the first present of manusers of plants is not soon plant along nor be significable loaders are used and few treate receive may be plants. By present of the present of the brune plants. By present of the brune plants had been removed.	No.179	0	7	490	9	630	1	70	
Every (II-1091) The respectant has a seen a me there are indications of repeated overing is to evidence of representant of current fees of key berjaceous species. Say threaceous for species are completely stillind. The remissis of prefevred grasers are grasted to the soil as there is no evidence of terminal bads and El- sevaliable leader greath on the key troops plat best reserved, fonce, and often much, of the 2 lard year's growth of the lawser justs has be ised. Hedging is readily apparent, and the be plants are more frequently brases.	rage of tubble of the has been and and on until-	0	/ /	90				•	
THI WHY TOTAL	,		10	460	10	680	10	400	
TOTAL		-	/	40-					
Average Utilization	$= \frac{\Sigma f x}{\Sigma f} *$		60	6-90	6	890	40	%	
KEMARKS THEE DACK OF	T SAGAT								

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)

BUREAU OF LAND MANAGEMENT STMPH & AMAL have been heavily

FEID-moderate use at stop 6

Range Utilization
Key Forage Plant Method

Last year's growth

4MD on Nridge						Last year.	•					
(1) District	(2) Dat	/		(3) Observer								
WMCA	4/9		Wilts		<u>cK</u>							
(4) Resource Area	(S) A11		(6) Operat	or/Allottee		(7) Field Name or No.						
(8) Vegetation Type	Kode	O Crk		[(10) Kind(	) & Class(s) of	Grazing Animal	(s)					
(0)	1"			,								
(11) Use Period	(12)	) Grazing M	innagement System									
(15) Transect Location/Key Ar	PE No.		A 21/A	CTUV	DOA CHUT	o chabil t	) C   BIL   111	2=-15 0/15				
KF#5 - Every	3	rces	ARVAS	+ STAIL	DA CITY	A SIMIFH, I	SOM!	PINE, ALLIU				
	Mi			pecies	Key S	Species	Key	Species				
(14) Use Rating of		Point	Frequency		Frequency		Frequenc	y				
Current Year's Grown	th	(x)	(f)	(f) X (x)	(f)	(f) X (x)	(f)	(f) X (x)				
No tire 1941: The rengeland shows no evidence by grazing sermels.	of use											
							1					
		0										
\$140c (1-201): The pungeland has the appear	unce of		•									
Fight (1-70%): The pumpeland has the appearance of very Light grains, the her hericoccus forcep plants may be tapped or elightly most. Current seedstalls and young plants of her hericoccus species are limite interactual. The swallance leaders of her browne plants are lattle disturbed.		10	1	10		2. **						
Light (31-hot): The rungeland may be topped, or grains in patches. Do les value betters	phismed, us planes				•		• •					
of grains as pectode. Do les vicin berisces are grains as pectode. Do les vicin berisces are ungrand and 60 to 60 persons of the number of the sent arrange and the sent arrange and the sent arrange and the sent are sent as a sent arrange and the sent are sent as a sent arrange and the sent arrange are sent as a sent arrange and the sent arrange are sent as a sent as a sent are sent a	ereile ets. ereile ches end	30			1	30	2	40				
hydryce (4)-64%: The respected appears set covered as unifersly as estural features and titles will allen. Fitness to 3 percent of the ber of current condetains of bey bernerous a remain intent. To meet than 15 percent of the of low values bernerous forage plants are wit beween plants appear return unifersity utilize all to 60 percent of the estillable leader gree bey brunne plants as on recover.	facile the tem- pocies a tempor lived. d and th of	50	4	200	2	100	4	200				
Serve (4)-80-1: The rangeland has the appear complete searth. By bernacoust species are			••		4-							
completely stillied outh loss than 18 percent completely stillied outh loss than 18 percent surrout pooletable remnancy. Shorts of this greases are unlessed. Here then 18 percent of number of low value heriocomes forage pionts been utilized. The preferred herewe plants and some plost clamps may be slightly beaden, all smallable leaders are used and few termis runnin on boy herous plants. Approximately to persons of the oreilable leader gravits of the bronce plants had been removed.	nove ore hodged Soarly oil busts is on Mi	70	5	350	7	490	4	280				
Severy [7]=10051: The runguland has a mean a most there are indications of reposed severages as exclusive of representates of current to open a consist of perfection and convert to special are empirically stilling. The remains of preferred grades are granted to the seil a first in a exclusive are granted but and flevellable londer growth on the lay research been reserved. Some and often such, of the 2 land, in diging it reseally appared to the bullet.	details rage ng stubble upface. 1001 of nts bee hd and on util-	90						-				
HLI TINI TOTA			10	560	10	620	10	540				
Average Utilization	$= \frac{\Sigma f}{\Sigma f}$	*	5	690	6	290	54	190				
REMARKS (Use back of	f shee	et)										

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)

### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT Winnemucca District Office 705 East Fourth Street Winnemucca, Nevada 89445

In reply refer to:

4700 (NV 026.81)

November 10, 1992

Memorandum

To:

From:

Amanda McCutcheon WH & B Specialist House Signard dute at end of memo. R Subject: Use Pattern Mapping on the Fox and Lake HMA (NV 216)

On October 5, 6, and 19, 1992 and November 4, 1992, pre-livestock Use Pattern Mapping was conducted on the winter country in the Rodeo Creek Allotment. Mapping was done by traversing the area by vehicle and conducting 15 key forage transects (KFT). Key forage transects #1 through #6 were conducted on October 5th and 6th by Dale Owen and myself, KFT's #7 through #14 were conducted by Dale Owen on October 19th, and KFT #15 was conducted on November 4th by Peggy Wiltse and myself.

Six utilization classes were used: No Apparent Use; Slight Use 1-20%; Light Use 21-40%; Moderate Use 41-60%; Heavy Use 61-80%; and Severe Use 81-100%. There were 54,139 total acres mapped: 1754 acres of slight use, 34,865 acres of light use, 16,408 acres of moderate use, 49 acres of severe use, and 1063 acres of barren ground.

Owen and McCutcheon, October 5 & 6, 1992

### KFT #1

Key forage transect #1 was located in the Lake Range, north of Wildcat Peak in Three Mile Canyon. The transect was conducted using EULA, SIHY, POA++, GRSP, and ARSP as key species. Actual use was determined to be 7% on EULA, 24% on SIHY, 18% on POA++, 16% on GRSP, and 3% on ARSP. Overall use for this area was considered to be light. (Photo)

KFT #2

The second transect was located south of White Sage Flat with SIHY, ORHY, ATCO, ARSP, and EULA being the key species. The results of the transect were 22% use on SIHY, 0% on ATCO, 12% on ARSP, and 10% on EULA. There was not enough ORHY in the area to conduct the transect, so it was omitted. Total use for the area was determined to be light. (Photo)

KFT #3

KFT #3 located at White Sage Flat and was conducted using EULA as the key specie. The use on EULA was 30% and overall use for the area was considered to be light. (Photo)

KFT #4

This transect was located on the flats, northeast of Trail Canyon. The key species used were EULA 36%, ATCO 0%, and ARSP 21%. Overall use for the area was light. (Photo)

KFT #5

Key forage transect #5 was located in the flats north of Cottonwood Creek with key species being ATCO, SIHY, and ARSP. Utilization on these species was 2% on ATCO and 25% on ARSP. SIHY was eliminated from the transect due to the scarcity of the plant. Total utilization in the area was light. (Photo)

KFT #6

Transect #6 was located in the flats on the northwest end of the Lake Range. The key species used to conduct this transect were SIHY, EULA, and ARSP. Utilization of SIHY was 60%, with 48% use on EULA, and 6% use on ARSP. Overall use in the area was moderate. (Photo)

#### Owen, October 19, 1992

KFT #7

This transect was located on the east side of the Lake Range, south of Schell Spring. Key species utilization was 56% on SIHY, 38% on ORHY, and 7% on ATCO. Overall use in this area was determined to be moderate.

KFT #8

Key forage transect #8 was located south of Manure Canyon. Key species used to conduct the transect were SIHY with 54% utilization, ATCO at 7%, and ORHY with 22% use. Total utilization was considered moderate.

KFT #9

KFT #9 was located north of Boiling Springs and was conducted using SIHY, ORHY, and ATCO as the key species. Actual use appeared to be 58% on SIHY, 16% on ORHY, and 7% on ATCO. Use for this area was determined to be moderate.

KFT #10

Transect #10 was located east of Wildcat Peak in Threemile Canyon with SIHY, ORHY, and ATCO as the key species used to conduct the transect. Utilization appeared to be 58% on SIHY, 14% on ORHY, and 7% on ATCO. Overall use in the area was moderate.

KFT #11

The location of key forage transect #11 was north of Threemile Canyon on the east side of the Lake Range. The key species used to conduct this transect were SIHY with 56% use, ORHY at 5%, and ATCO with 6% utilization. Total use in the area was considered moderate.

KFT #12

Key forage transect #12 was located south of the powerline on the east side of the Lake Range and was conducted using SIHY, ARSP, and ATCO as the key species. Use ranged from 58% on the SIHY, to 4% on the ARSP, and 3% on ATCO. Overall utilization in this area was moderate.

KFT #13

This transect was located north of the powerline on the east side of the Lake Range and was conducted using SIHY, ORHY, and ATCO as the key species. Utilization on these species was 58% on SIHY, 18% on ORHY, and 8% on ATCO. Total use in the area was moderate.

KFT #14

The transect was located at T.29N, R.23E, S.1 and was conducted using SIHY, ORHY, and ATCO as the key species. Actual use was 42% on the SIHY, 36% on ORHY, and 14% on ATCO. Overall utilization in the area was moderate.

#### Wiltse and McCutcheon, November 4, 1992

#### KFT #15

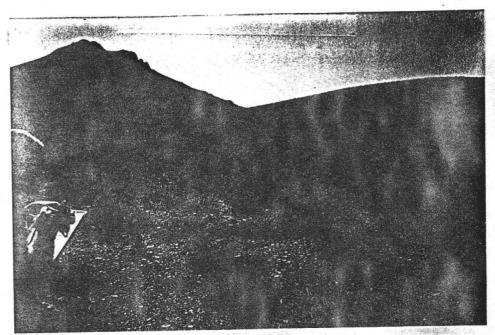
The last transect was located on the northern end of the Lake Range, north of the powerline, and was conducted using SIHY and GRSP. Actual use on SIHY was 32%, there was not enough GRSP found in the area to complete the transect.

The mapped, barren area on the northern end of the Lake Range has a high concentration of animals due to the presence of water troughs that are the only available water source on the Lake Range.

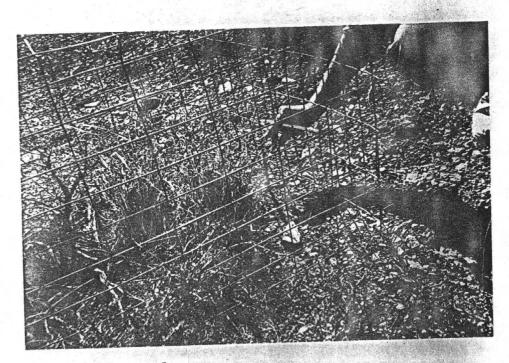
Due to the lack of precipitation, plant and leader growth were reduced considerably this year. This lack of plant production leaves little available forage on the range, even though most utilization was considered to be slight to moderate.

There were signs of both horses and cows in the areas mapped.

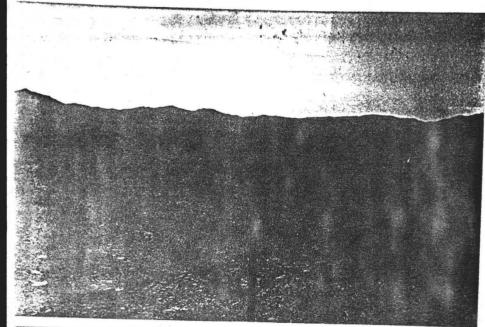
Amanda mchukhuan 11/10/92



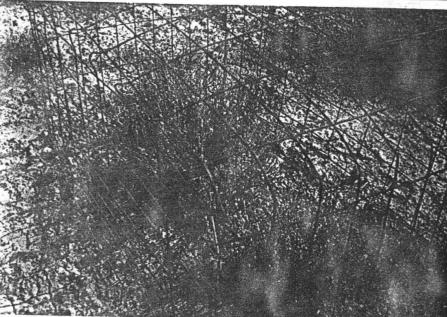
Looking south at cage from witness post in Threemile Canyon.



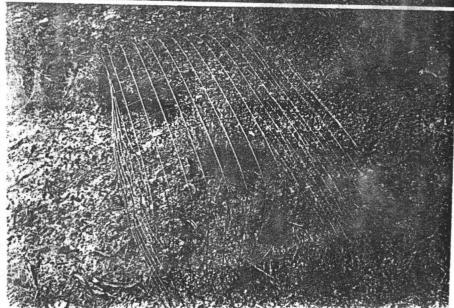
Threemile Canyon Cage.



Witness Post at cage south of White Sage Flat.

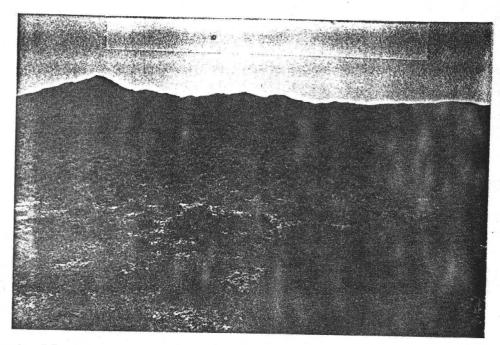


Cage #1 south of White Sage Flat.

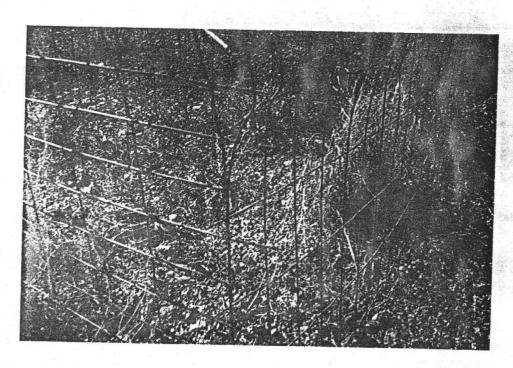


Cage #2 south of White Sage Flat.

KEY FORAGE TRANSECT #3

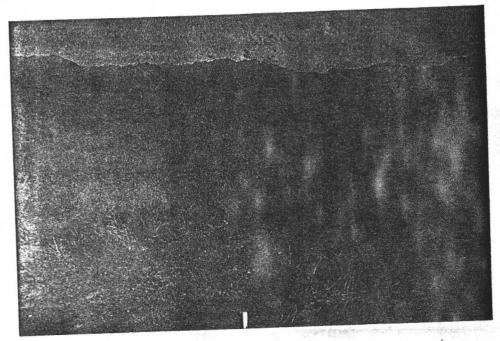


Looking at cage from witness post at White Sage Flat.



Cage at White Sage Flat.

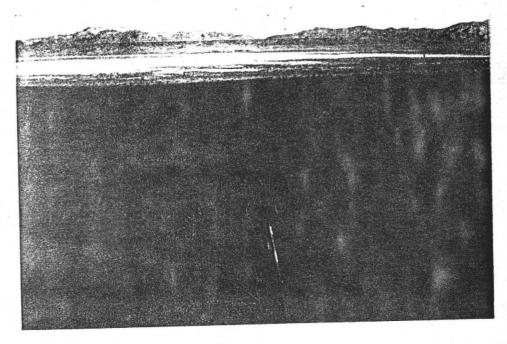
### KEY FORAGE TRANSECT #4



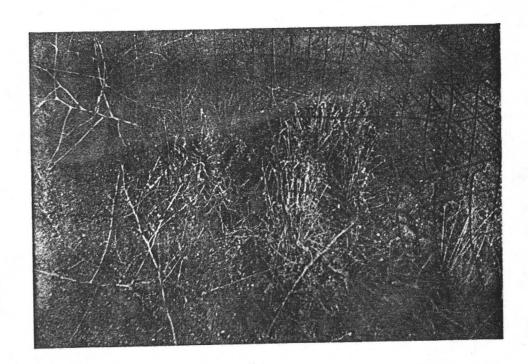
Looking at cage, below Rattlesnake, from witness post.



Cage below Rattlesnake.

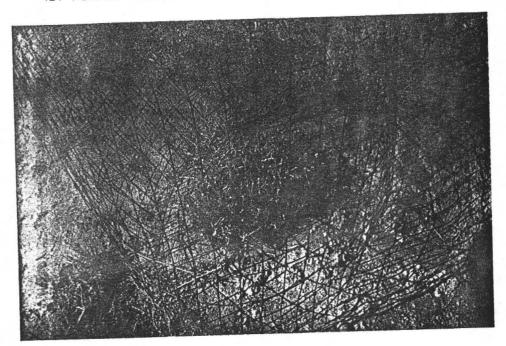


Looking at cage, north of Cottonwood, from witness post.



Cage north of Cottonwood.

KEY FORAGE TRANSECT #6



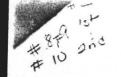
Cage north west of Lake Range below powerline.



## DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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(1) District	(2) De													
WMCA	10/3		Cut	chec	20,0									
(4) Resource Area		lotment												
<u> </u>	Kod	oo Cro	ek	Star	1 C	resc	210	1000/01	of Grati	1-1				
(8) Vegetation Type	(9)	Sange Site	,			(10) 178	(1)	 	(1)	ME WILLY	1/ /	. \		
(11) Use Period	- 10	2) Grazing	Manares	one Ever		Hors	os, C	aus	Cu	rrent	Years G	(outti)		
Winter	1"	a) mussing .	and to		_									
(13) Transact Location/Key Ar	- No.									~~~				
STAY, OPHY, ARSP,		FPUE!	7	- GI .	PAG	# F	MA	ARA	RR					
/ - //	CINO	7		ILA	1	STHV	00	4++	10	PSP	1 48	SP		
(7 Paces)		Mid-		Key	Spec:	SIHY les	1	Key	Speci	es		Species		
(14) Use Rating of		Point	Fre	quenc	Y	1	Fr	equen	су		Frequenc	У		
Current Year's Growt	h	(x)		(f)	(f)	X (x	1	(f)	(f)	X (x	(f)	(f) X (x		
by five 1951: The projected shows as evidence by grating serious.	of use													
			9-		1	0				1				
			Ι.	P		1 7	1	P		Ø.	1	Ø		
							].,			1	1 6			
					1	1			1					
flight (1-291): The respected has the appearance former stages grated. The key bertaneous former term to tapped or allightly mod. Current seems	44144	10		20	.:	140		20	11.	40		20		
and young plants of her haracters species are disturbed. The contlinue import of her brown are large disturbed.	a bleeze	.0	•	120	1.	170	1 .	120	1	170	6	30		
				+	+	+	+	+	+	+		· · ·		
gight (21-205): The suspensed for he topped, for grains as position. The low value borthooms are ungraved and 60 to 85 persons of the tenter				1.	1		1		1					
ourrant condutable of her herhorens plants to secure. That young plants of the boy species	1016 1070	30				1,0	1	Ca	1	120				
undersond. Little or as use of les value plant Thora de serious original of lander utt. But this between the serious or towness in the	prod le			1	1.	60	1.	90	1	1/20				
Il to de persons of the sociable leader group the bdy brouse plants had been personal.							1.	1 .						
Sporture (41-465): The tempeland appears med-	rele			1	1	1	1	1	1-					
Propriet (41-001) The inapplied appears not in direction the and forbity as included features and fi films will allow. Pifrom to 25 persons of the bar of maryout produce his of her betweens to	I Bulle	-2		1			1		1					
bungle Satast. In more than 18 percent of the of low value bortaneous foruge plants are still	tenter	50		150	•	50			1					
bruce plants appear rector outerally stilled at to de persons of the socilable leader great top bruces plants has been resound.	-					100	1		1					
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ounrieste unilized out less than 16 percent e aurrest perferable remissage. Seets of thirty grounes and disease. There than 18 percent of t							١.							
furner of his value berraceus forms plants he been extilized. The perfected betwee plants for and none plant abuses our to eligatly breish.	Bear 17	70 1					1	70		- 1				
all praisible leaders are used and for termedi-	busts	/								- 1				
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provide LEI-18047. He tenderions yes 9 men un-	-							1						
end there are inclinerians of expected prevents is an evidence of exprediction of autrost tooler of her higherman apocase. See herholoom force	44141						-							
toverse are completely stilling. The remaining of preferred graness are graced to the roll ber	stubble face.	90			•	90		1		- 1				
Cirry is no evidence of terminal beds and 81-100 trailable loader growth as the ter present plants from transend. Some, and often man, of the lad	t bad	10				10								
les rest's growth of the proving plants had been time. Bodging to readily asserted, and the bree	m11-													
LIANTS AND BOTH EXPERIENCES STOLES														
			10	MA	10	240	10	ICA	11	,, ,				
TOTAL			10	70	10	240	10	180	10	160	10	30		
luamana Hadilaandaa	Efx	.	7	1/	2	4%	19	%	16	1	2.1			
Average Utilization	ches			1.		. / .	10	/.	14	/•	3%.			
REMARKS (Use back of	snee.	<u>U</u>												

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.



### DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

(1) District	(5) Dat			(3) Obse								
wmca		5/92	,	4MC		1100		00	20			
	(5) AL	othent		(6) ODATE	LAT/AL	ottee	,			(7) Fie.	ld Name or No.	
	-	o Crae	k	Stan	Cove	osnic	<b>\</b> _		1			
(8) Vegetation Type	(0)	Range Sit	•	CIMI		(10) KLA	4(0) 4 (	1055(8)	02 Gr	stag Ani	mal(s)	
						Horso	s. C	ouls		Curre	ent Yours	Growth)
(11) Use Period	(12	) Grazing	Nanage:	ment Syste						handle day	are 14th	Crowne
Winter							فيدن معروب وجارت الأماريين	_				
(13) Transect Location/Ley Are	EULF	7,57	<b>-H4</b>	ORH	٧,	Pose	E, A	TCC	, G	RSP		
7 Paces		Mid-		Key	Speci	CRHY es				cies	Eula	Species
(14) Use Rating of		Point	Fr	equency				equen	су		Frequen	icy
Current Year's Growt	-	(x)	-	<u>(£)</u>	(f)	X (x	4	(f)	1	f) X (	x) (f)	(f) X (x
by \$10.000; the progrised stone as pridence of \$10.000.000	rf 1449	·	9 .	Ø				] ø	3			Ø
Flick c1-2953: The monoclass has the appearant out slape friending. The her heriodensis firstle the fit from the target of the fit for the	oo of planes allo lictio plants	10	3'	10					•	3	0:	20
if see (**)-let1: The respondent for in toped, since grand at ponders. The less value betweened for engineed and 60 to 60 prevent of the tenture surrous absolutable of law inchesses files from tenture. But promp plants of the lay species successful. Lettle at the set of less the plants from a conference. Lettle at the set of less the plants from the bostones arthur as of less the plants for the plants of the section in parties 12 to 40 pureous of the section less from the lettle leader greats the let by broom plants has been possent.	2	30	9	90				:		90		30
Prince (dispiti) The tempolar apport sector forward of authority as assumit features and for files multi allem. Piles as 25 persons of the files multi allem. Piles as 25 persons of the tempolar allement of the tempolar allement appearance of the tempolar persons are present as the files of the tempolar appearance proper pension of the tempolar appearance appearance property at the files of the section of the tempolar appearance appearan		50	•.	50							!	50
Brown \$55-\$6-\$1. The proposed has the apparatus despises possible. By bertalents typical are also considered by \$1.5\$ (and for bertalents typical are also considered by \$1.5\$ (and for being proposed by \$1.5\$ (and for being proposed by \$1.5\$ (and for being proposed by \$1.5\$ (and fore plant has been extilized. The perfected betwee plants has been prior them one to \$1.5\$ (and fore plant being plants be been extilized being proposed by \$1.5\$ (and fore plant them one to \$1.5\$ (and fore plant them one to \$1.5\$ (and fore being \$1.5\$) (and \$1.5\$ (and \$		70	4	70								
Severe [11-1904). The punctions has a time appear on them or selection of rejected ferritors, as an evidence of expression from the product of the ferritors as an event exist, as the expression fortige tends of preferred graines are grain to the total bert for greenering graines are grain to the total bert flower to the best bert flower to the best bert flower for greenering product of the present flower flower as the evidence of terminal best are flower freezisted to be loosed growth on the ber present plants been freezisted for from the first product of the best fire to the control flower	itto	90										
TOTAL		•	ID	220			10	Ø	10	190	10	100
Average Utilization = REMARKS (Use back of	Efx Ef			22%	Ø	<i>J</i> .		Ø		12%	10	/.
TO YORK SELL CANNELL	Sheet	-								-		

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1992)

### BUREAU OF LAND HANAGEMENT

# Et #3.

### Range Utilization Key Forage Plant Method

	Date	(3) 0610	LA41	^			
wmca	0/5/92	YYYCL	utchear	J. Ow	en_		
	) Allotment	[ (e) Ober	BEBI\V110ffeA		(7) Field H	ane or No.	
· 5.6	odao Cra	OK Sto	in Cere	sola			
(8) Vegetation Type	(9) Ange Sit	•	(10) Kind(	s) & Class(s) el	Grazing Animall	(1)	_
			Hors	as, Con	s Cu	rrent V	Pars Grow
(11) Use Period	(12) Grazing	Management Syst	16				613 01100
Winter							
(13) Transect Location/Key Area !	¥0.	/11111			1		
EULA, ATCO,	ARSP	(MVI+	e Sage	e Flat	-)		
	1	EUL	4	1			
	Mid-	Key	A Species	Key S	Species	Key S	Species
(14) Use Rating of	Point	Frequenc	yl	Frequency	d	Frequency	4
Current Year's Growth	(x)	(f)	(f) X (x)	(f)	(f) X (x)	(£)	(f) X (x)
		1			132 3		1000
by freeing sectories.		1			1		
		1			1 1	•	
					1. 1		
	.						
flight 1-241: The tempeland has the appearance of easy sages greated. The boy termesous forego plan toor he capped or alignery med. Govern seventable			10		1 1		
and pump plants of her huracious species are Litt disturbed. The sentiable leasers of her bross pla are lattle disturbed.	10		10				
tre tarcie distourted.		-					
figur (*1-101): The remptions our be troped, stime for granes an pendion. The ten miss bertransons pla her surpressed and 60 to 60 persons of the number of	<b>=</b> :						
the section of the set of the bester of the							
ponent. Rest print plants of the boy species and surfavorand. Lettle or on one of low taken plants.	30		240				
Turre to ediction evidence of lauder use. No smil- sale locators appear arapped or browned to pendies a		2	240				
this become appear arapped or imposed in peculis in In his sid pursues of the bracket is loader growth of the key become pieces has been present.			1				
Entrying (()-95%): The tempelant appears militate		And and the Parties of the State of the Stat					
historius del 1984 in the tempeland appears exciptive forested de gas ferbely de tempel features and feature felice mell alice. Pittem es 25 persons el the tem- lest el approves personales el les instructions species			1				
hat of current pordocalls of by hortunated species roman botnet. In core than 16 percent of the tuno of law tales brotherous former plants are stilled.	. 50	•	50	1			
bronce plants appear receive outwort stilled and by he of persons of the soulisis leader grants of buy broves plants has been received.				- 1	- 1		
by broven glassa had been reserved.							
here tolers. The purposed his the appearance of							
manufacture and the safe area, there where het assessment and the							
burrout generalle renaises. Burta of Biromene grance per indensit, burtases. Burta of Biromene grance per indensit, bur man II present of the water of his males increased from plant been less utilized. Bu preferred besse plant me been							
has been a famil division and in arribult humans man s	1 1 2 1						
ill smillable loadury are used and for terrated buts franks on boy browns plants. Approximately 61 to 80 formed of the brailable loader grows of the boy				- 1			
become branch gree point become?							
over [2]-10011. The tradelled for 8 feet thistolist	-						
no shore are indications of reported provings. Their to orninate of suproduction of surroduction of surrod presentable	-						
f bor bornecous mosses. For terresona forge porter are concurrety actilized. The terresonal state	1000		1				
f professed greates are greated to the sell surface, here to so existence of terminal tude and \$1-1001 of wellsale louder growth on the ter proves plants has	90				1		
ron transped. Some, and often man, of the 3rd and re rone's grown of the proving place had been still				1			
ions, Sunging 28 funcily process, and the brooms innes are more frequencily process							
			200				
TOTAL		10	300				
	fx	2~	./				
verage Utilization = I	f ·	30	/.				
EMARKS (lise back of sh	eet)					the state of the s	

\* Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)



(1) binner (2) b	1-10	(3) 00101		n. Owe	_		
(4) Resource Area (5) A	Ulotsent	(6) Opera	tor/Alettee	n, Owe	(7) Field	Mane or No.	
SG R	ton Cro	ek Stan	Cereso	la			•
(8) Vegetation Type (8	) Range Site		(10)	a) a cress(a) as			0
(11) Use Period (	121 Graning	Management Syste	Hors	ses, Co	ws ((	urrent Yea	is Growth
Winter			_				
(13) Transect Location/Key Area No.		- ^		Andreas			
EULA, ORHY ATC	O, AR	SP, SAK	A	·		1	
70002	Mid-	E JUA	Species	Key S	pecies	FREC	Species
(14) Use Rating of	Point			Frequency		Frequency	M
Current Year's Growth	(x)	(f)	(f) X (x)	(£)	(f) X (x)	(f)	(f) X (x)
by \$10 PT(1). The empeland those to preferre of the by gracing statute.			1				
				1		-	Ø
							1 9
				Λ.			<del></del>
flight fl-1941: The respected has the appearance of very taget greated. The her bernessess former plants for he topod or elightly used. Gerrent semential	10	٠	10			4 5	110
and prime plants of toy torrescent species are Little distouring. The armitects immere of by brime plants are Little distouring.	1.0						40
						- Committee of the Comm	
tive (71-101). The respected me to inspect, stimul, for graces at precision. The law males between plants for universe and 40 to 40 prevent of the number of surrices acceptable of her barbonous plants totals.	30	17.				9 4	
peract. Next point plants of the boy species are undomined. Lettle or in one of for taker plants. There is the house oridiness of lander are. We seek!	30	1	210				120
this leaders appear araped at brained in justice and 21 to 46 percent of the brackets leader growth of the key become plants has been percent.							
Briefre (1)-0511 The temperated appears excited to convert as an in-rest; as except deceases of feets (time m.1) allow. If from as 25 persons of the temperate of temperate of the temperate of the temperate of the temperate of temperate of the temperate of temperate of the temperate of te		And the second section of the sectio		. ]			
	50						F 2
this to sorrow processing at my sorrow question of Jan Value burbacous from them 26 percent of the before of Jan Value burbacous from the populate set willisted and of the 68 percent of the realists leading growth of the process of the process.	]						50
typer (6)-10-11. The suspected has the appearance of type and secrify. Buy buyeasses species are alcost explored type stilling out, less than 10 percent of the							
person senderable substance. Buret of Matematical greater use taloung. Here that If person of the screen of les value berstanne frage plants have		•					
been urilized. The preferry brance plants are benefit but been plant clumps may be eligicit breams. Beefit all smalled to benders are used and for bereated buts	70		140	1			
tracts on key browns plants. Spreathfulf 61 to 80 persons of the best browns plants has been patents.							
course (11-10-17). But respected his 8 feet Specimen							
me there are included that of repeated process. There is no produce of reproduction of persons the person because the							
preses are completely stilling. The termining streets if professed grades are grade to the sell beries. here so aredence of terminis but and 81-1091 of	90						
restable feater growth in the her transe plants had now transport. Botto, and often mate, of the Die and les mage's grants of the transe plants had been still							
into thegring as tradily present, and the brance lance are more frequencis present							
			210	~			
TOTAL		10	360	Ø		10	210
Verage Utilization = If	×.	36%	/.	Ø		21%	
EMARKS (Use back of sheet	et)	201				~1/.	
				- 1			

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.



***************************************							
	:) Date	(3) 06561		^			-
WMCA		2 m	Cutcha	OD, OWO			
	S) Allotment		ter/Allettee	- 10		Mane or No.	
(a) Vegetation type	Coden Cro	akl Star	1 (Pres	0 6 (1000 (1) 01	Granine Animal	70	
(0) 10\$1000000000000000000000000000000000	(1) 1240 111		Horse	Cow	(Curren	+ Years (	7 V/2)
Winter	(12) Grazing	Management Syste		-	Traireit	· Tems C	ALUMAN )
(13) Transect Location/Ley Area ATCO   SIH	HO. ARS	P					
	Mid-	Key S	o Spec <b>ies</b>	SIHY Key S	pecies	ARSA	Species
(14) Use Rating of	Point			Frequency		Frequenc	
Current Year's Growth	(x)	(f)	(f) X (x)	(f)	(f) X (x)	(£)	(f) X (x
by the POLE the progetant store to produce of by grated statella.	1000				1		1
			ø			•	
filling c1-2051: The temperated has the approximate four Lages frozant. The new horsestern forther to the temperate of Lightle most. Dervice models and point plants of her horsest special are Laguages. The multiple language of her laguages of Laguages of Laguages.	of ones	, ,	20			• 6	10
time (re-left): The respelant our to tropes, shis for graves at precious. The low miles betterning for marves of the 60 to 60 precious of the heater to their money of the forest precious plants residentials of the forest precious greaters. But promp plants of the lory special greatering for the forest precious or fines are plants. The sense are observed agreem respect or between the prefer the first terminal plants greater the first the contrible lander greater of the key bronze plants had been purered.	30						240
Spicroto (dinesti). The tropoland appears prospectively at an inferior or anticol. Income and heal files on if the metal forcers and heal files on it is not of the tree of the tropolar forcers. In one than 14 percent of the tree for it is not been appeared to the tree for its or for the tree for its or for the tree of the tree for its or for the tree force places and the tree force for the tree force force force for the tree force force force for the tree force	150						
Beare 691-16-11 The suspetant has the appearance from long search. Buy barinessus species are allow numbers by stilling outs jose pass if present of the strates source. But receiving. Burst san if present of the protect of the value between these plants for hones of the value between these plants have been settlings. But perfectly betwee plants have been settlings. But change are to slightly beams. But but some plant change are to slightly beams. But all and table beamer are and and for terminal for branch do not brone plants. Approximately 61 persent of the modified leader proves of the hep- by-come plants has book personal.	70						
invery (3)-19041. The respectance has a soon appearing starts are indicated of reposted protestion. It is no enclased to the respect to the control of the between the control of the respect to the control of the respective process are consisted for start of the following process are consisted for signed to the seat harfact for the residual former granded for the seat harfact harm it is not respect for the seat harfact process facility of the seat of the seat harfact harm trained for the seat of the process facility of the seat of the process facility and the process of the process facility and the brown that is the seat of the seat of the brown that is the seat of the s	90						
TOTAL		10	20			10	250
	Efx Ef •	2%				25%	
CEMARKS (USE DACK OF S	neet						

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.



### DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

### Range Utilization Key Forage Plant Method

	Date 10	(3) 0616	TWF	111			
(4) Resource Ares (5)	Allotment	12 M	-Cutch	ann, O	W(2.1)	Name or No.	
	den Cre	rk Star	1 CPresi	la			•
(8) Vegetation Type	(9) Range Sit		(10) ELA	(s) & Class(s)	of Grazing Anima	11(0)	1
(11) Use Period	(12) Graning	Management Syst	1701	ses, ('ou	15 CLURY	ent years	S Growth
Winter	(88) 01-1016	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_				_
(13) Transact Location/Key Area M	0.			^^-	.1001		
EULA, SAKA TE	3 LIAT	CO, SIH	A CHUE	HKSP,	Ange		
	Mid-	Key	Hy Species	Key	Species		ලියුව Species
(14) Use Rating of	Point		y	Frequen	су	Frequenc	eyl eyl
Current Year's Growth	(x)	(f)	(f) X (x	(f)	(£) X (x	(£)	(f) X (x)
by grained deseate.	•						
	1				1.	1 0	-
						1 .	Ø
							1
flight *1-1910: The temption has the appearance of tary taget framing. The her hortecome forage plant ther he topped or alightir most. Correct protection	1 ()	¥	10				30
and pound plants of her horsesous species are little disturbed. The nextinate inners of her bross plan are latable disturbed.					2	,	30
tight ("1-101): The competent car be bround, stimm or grained to punches. The ter union bertecous plan	:			3			
are engreed and 46 to 50 prevent of the tenter of current conducable of her terraceous plants remain tenset. Burn young plants of the key species are	30			1.			
underseguel. Little of an use of low union plants. There is notions originate of leader use. The swall- state features arrangement or bround in the states in					30		30
23 to 46 persons of the prolibble leader group of the boy brown plants has been personal.				<u> </u>			
<u>Programs (4)-00%):</u> The tempoland appears emission forwards and profession and faculty as bettern! Successed and Section than mall allows. Pifess to 25 persons of the description of the com-							
bur of nurvent producting of by herbotoms species trends betack. In most than 10 percent of the busine of low value herbocrous foruge plants are stilled.	. 50		100		100		
frommer plants appear retter uniformly utilized and of he of persons of the autilials leader great of her bounce plants has been reserved.					100		
Seen 161-16-71. He birdering per the althousance of							
hosp total position, Boy barbacous species are sisted proposed of the		1				1.	
purvent powers. The punsioner, Sucret of Migoresteed process new disposed. Ture then if persons of the honour of few tales bertaneous former plants bown hom, estilland. The perfected become plants are hodge	* 17A		490				*
put besse plant abuses our to eligally broken. Swelp til anskieble loaders are used and for terment beds rouses on day browse plants. Appresimely til to 80	10		1970		350		
present of the smallable leader grown of the boy present than book puncent.				•			
overy (\$1-10011" The range load has a most appearant on a tarte are andicantions of reposted provings. Then							
s to produce of reproduction of narrost tovertable of her herbecome species. For terresonal forage person are completely existed. The remissing state	- 02						
d professed granous are graind to the soil berfore. Nort is an evidence of terminal beds and \$1-1091 of realistic leader growth as the ter prison plants had	90						
con transport. Bone, and often time, of the 3rd and or rear's ground of the proves plants had been utile and, finding so treatly apecies, and the proves							
lants are more frequently troops							
TOTAL		10	600	10	480	10	60
Σ	fx						00
verage Utilization = I	f ·	60%		48%		6%	
EMARKS (Use back of sh	eet)						

NV 4400-12 (January 1982)

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma =$  the summation symbol.

LFT#1

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	(2) Date	(3) 06107	•				
(4) Resource Arga	10/19/9		Cuer 01/Allottee		(7) Field Na		
	(S) Allotoent		()		,		
Sanam Gerlach !	(9) Range Site	SHIN	(10) 51041	1 & Class(s) of	Grazing Animal (	Daskine	
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(1)				House in		a tele
(11) Use Period	(12) Gracing M	unagement System	DOPI	Can 4	muse in	0009, 1	mary
(13) Transect Location/Key Are:	a No.			· · · · · · · · · · · · · · · · · · ·			
	727N R	23E SEC!	5				
		SIA	4	ORN		ATO	
	Mid-	Key S	pecies		Species		Species
(14) Use Rating of	Point	Frequency		Frequency		Frequency	
Current Year's Growt		(f)	(f) X (x)	(f)	(f) X (x)	(f)	(f) X (x)
to Dee 19%: The rangeland shows to evidence of graining state in.						, ,	
Miles (1-795): The respected has the appearant	7. d.						7.
very adjet grading. The her beckerson forego- mer be topped or slightly med. Current social and roung blants of her bertaceous species are	II CT IA						70
and young plants of her bernacous species are disturbed. The semilable leaders of her brooms are herele disturbed.	10						
Lifer (31-104). The respectant my be topool, a	d Land.						
or grains in pockers. The low value terrection are married and fit to 30 persons of the number purrous sundentality of her terrections plants re-	of				1		
totact. But print plants of the boy species of	P				180		
There is aprious orlines of lower use. He s shie loaders aroust cropped or braced in paid 21 on all percent of the sentiable loader grack	30	× =					
the Loy brown plants has been reserved.							
meaning (d)-oft). The respected appears onto	#U+ 1	~					
letter will allow. Fifteen to 23 percent of the bor of married seeders his of ter terturous spe reads intact. In more than 16 percent of the	HE LOS	.	350		200		
of ion value bettermen forage places are still brown places agrees rectary surferely stilled at to 80 percent of the orallable looder growth buy browns placed but book reserved.		-	0		700		
phi plance brears per poor tenancy	.						
ture or fil-80-1: The range Land has the appeared ampire a searth. Buy to the cross special are all							
completely stilling with less than 18 percent a current assertable remaining. Bursts of thirm	of the		2.2		. 1		
greaser are testing. Now that IP person of t names of the rates berraceous forage plants to best etilized. The preferred brown plants are	TO	,	210				
and some plant closes may be eligibly broken, all contlable londers are used and for terminal roughs so bay browns plants. Approximately 61	170						
persons of the evaluate leader grants of the t browns plants has been reserved.			7, -1				
Server "[]=[001] The rengelane has a new spy ma tours are indicastima of repeated provings. 13 M pridones of representation of current books	There exists						
of her herbocomic mocces. See herbocomic form species are completely exilized. The remaining of preformed gration are grated to the bell our	etumbie		***				
There is no evidence of terminal buts and first evaluable loader growth on the new proves plant						•	
tron reserved. Some, and often nucle, of the 2nd les rear's growth of the province plants had been size. Reaging is readily appearant, and the bry	- KII-						
plants are more frequently broads		* 1					
		. 2		, ,			2
TOTAL		10	560	/0	360	10	70
Inches Helli	Efx .	5	7.		38		7
Average Utilization	= 11 =	5	0		70		
REMARKS (Use back of	sneet)						

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.



	) Date / 1/2	(3) Objets					
(4) Resource Ares (5)	10/11/92 1 Allot Dent	W. W	luen or/Allottes		(7) Field Na		
(1) La source Art		(6)		_	(7) FIELD X3	se or so.	*
Sanama Gerlich X	ODED OK.	STAIN	Cereson	Class(s) of	Winter	asture	
(a) regeration type	(v) mage site		(10) 2110(2		- '	.,	
(11) Use Period	(12) Coules V	Anagement System	Cour	5 Head Ha	iss,		
(11) 016 14:100	(12) Grating A	anagement system					
(13) Transect Location/Key Area		R 23 E Su	. 31/				
	1000			ATE	0	ORHY	,
	Mid-	Key S	fy pecies	Key S	pecies	Key S	pecies
(14) Use Rating of	Point	Frequency		Frequency		Frequency	
Current Year's Growth	(x)	(f)	(f) X (x)	(f)	(f) X (x)		(f) X (x)
'to the rest. The respected shows to prisoner of the grating state in.	-						
Flight (1-201): The receptand has the apportune very saget gradual. The her hertections from a fine let the the topical of her her hertection of contact constant and roung places of her herbaceous species are lift abstracts. The semilable insecre of her brokes place lattic disturbed.					70		40
piper rejused. The recognized mer be topped, of it or grains as postable. Do less unless between place unities between 60 to 10 persons of the namer of recognization of the top top top to the top and to top united for united to united to the second place of the between places of the top appeals for united to the top top top to the united to the top top top top the top	20					7	180
macroto (direct). The recolled appears unitarly inverted he shelvesty as tocard features and held little unit allow. Fifteen he if prevent of the her of contract context is at her herbarous specificated in the herbarous specification in the second specific terms in the second specific parts agreed received process are unitare browne plants appear receive surfronty unified and to the personal of the smallest leader greeth of her browne plants has been proceed.		D	400				
turon (6)-80.1: The responde has the appearance impacts search. By between species are also consistent published with less time 18 percent of turtrent searchild renanzing. Some time 18 percent of the sames of the search for the percent from the sames of the owner services of freely plant them been utilized. The preferred brown plants are head some plant slower search search for the percent of the search s	70	, .	140				
Service [9]-[904: The rengeless has a sum separation term are indications of operated erroright. It is no erasinate of representations of current sectors, it is no erasinate of representations for current sectors, for the refractions forget species are completely exilized. The renaising for preference gravious are graved to the sell sector of preference gravious are graved to the sell sector for preference gravious are graved to the sell sector for preference gravious and El-1007 are larger to the sell sector for the sell sector from the sell sector for the sell sell sector for the sell sector for the sell sell sector for the sell sell sell sell sell sell sell se	70						
MAM	·	. ^	540	/^	70	10	22 0
TOTAL	56	10	210	10	70	10	22 3
Average Utilization =	Σfx Σf *	5	4	7	, <u> </u>	2	2
REMARKS (Use back of	sheet)						

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and <math>E = the summation symbol.NV 4400-12 (January 1982)



(1) Protestes 10	2) Date , ,	(3) Objerv	(eT					
(,)	10/19/9		quen					
(4) Resource Arey	S) Allot ment		or/Allottee		(7) Field N	ane or No.		
	KODEO CLA	5 STAN	Cereson	A Class(s) of Grating Animal(s)				
(8) Vegetation Type	(9) Range Site		(10) ELnd(1	I & Class(s) of	Grating Animal	(8)		
			5Co	us mara	a Horse	- harks		
(11) Use Period	(12) Grating >	unifement System					,	
(13) Transect Location/Key Area	No.							
	N RZZE SE	EC 22						
		SIL		ORH		ATC		
(14) Has Basins of	Mid-		pecies		pecies		Species	
(14) Use Rating of Current Year's Growth	Point (x)	Frequency (f)		Frequency		Frequenc	7 (5) Y (2)	
to bee 1961. The respected shows to prisoner of		(1)	(f) X (x)	(f)	(f) X (x)	(f)	(f) X (x)	
by graine miners	_							
Pilght (1-29%): The respelled has the appearance overy saget grading. The her herbactons forces I may be topped or silipate med. Current scott to	IIM I			111	70	M	70	
and roung places of her herencesis species for disturbed. The sentiable leaders of her browns are hartle discurred.	plants 10				10	1 "	, ,	
Light (3)-intl. The respelled my be tapped, of	Littled,							
or grains as possible. The low value bertuceness are suggested and 60 to 30 persons of the number suggested accordable of the horizontal plants rose	of				0.4			
metact. That print plants of the key special of undamaged. Little of in me of low value plants. There as sortens orthone of lower up. The Pr	· 1				90			
able leaders appear cropped or proceed in pottle 21 on Af percent of the realistic leader growth	7 A							
the Lay betwee plants had been punered.  Resource (81-051) The recycland appears setted							-	
treated to duforally to tonaral features and for	111-	7	2					
but of surrent productable of toy turbureous spectromas latest. To save then 16 percent of the of two relaw terraneous forage plants are still of two relaw turbureous forage plants are still of two relaws to the still of two relaws to th	79484	. ,	300					
brown plants appear return autoraly stilled in at to 60 percent of the periodic leader growth buy brown plants has been reserved.	50					4		
here's (41-85-): The rangeland has the appearant								
complete practite, buy to fractions special are all committeey stilling onth loss than 18 percent of supress posterial posterial. Secretary of the committees of the committee	toot f the							
grance are taxend. Note that IP person of the		•	280					
non utilized. The preferred brown plants are one some plant clover our be eligatly broken. I all available londers are used and for tarantal			120					
remain on any browns plants. Approximatily 61 is personnel of the realistic image growth of the between plants has been removed.								
Servery '\$1-100's The reagelone has a seen sepe- one there are indicating of repeated errorage. if MS evidence of representation of current seeds	The Pe							
of her herbocome species. Let between fire species are completely exilized. The remaining of preferred gration are grated to the soil burd	1110010			1				
There is no evidence of treated buts and \$1-100 available looser ground in the ter proces plants	17					•		
bron from red from any often nice, of the Did fre rear's growth of the proves plants has been alon. Reaging 16 Pendilly apparent, and the pre-	et11-							
plants are more frequently broads								
TOTAL		10	580	10	140	10	70	
	Σfx						, , ,	
Average Utilization	= <u>Σf</u> *	5°	8	16		/		
REMARKS (Use back of	sheet)							

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and E = the summation symbol.

NV 4400-12 (January 1982)

XFT \$ 10

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

///	10/19/92	(5) 00000	yen						
(4) Resource Area	(E) Allotment	IAL Charate	or/Allgttee		(7). F1014 Na	se or No.			
Sonema Cor Lach	KODED CIK	STAL	Stav Ceresola w			Winter pasture			
(8) Vegetation Type	(9) Range Site		(10) Eind(s) & Class(s) of Grazing Animal(s)						
(11) Use Period	(12) 671/10	Management System	(ow	Sign en	acea				
(11) 011 111100	(1.) 012.118	wanterent system							
(13) Transect Location/Key Are		2 0	5						
	128N K	23E SEC		aR t	14	ATC	-		
	Mid-	SEY S	pecies	Key S	pecies	Key S	pecies		
(14) Use Rating of	Point	Frequency		Frequency			1		
Current Year's Growt	h (x)		(f) X (x)	(f)	(f) X (x)	(f)	(f) X (x)		
to the 1961. The rangeland shows to organics of gracing solubles.	rf 1000								
Pline (1-291): The respelled has the appeared need to prove the property of the law hertactons from the per to topod or ellipseller used. Garvet tended and roung plants of her herbactons species has disturbed. The smallable leaders of her brown are Lattle 642cm/met.	little //			D	80	I	70		
tipes (2)-intl The recogalized may be trapped, of gracies an practice. The jets unless between the unique marked and to to 30 persons of the hoster natural passes, their promp plants of the horse present and the properties of meaning all their monators of the horse passes of the horse	10 10 10 10 10 10 10 10 10 10 10 10 10 1				60				
treatwer filt-off). The trapplant appears out inverse at the full fruit to secure fractures and it itses well allow. If from to 22 percent of the best of supreme conductable of the best of supreme conductable of the persons of the of low value bridge rout. In some than 18 percent of the of low value bridge rout from 18 percent of the of low value bridge rout from 18 percent of the 18 to 48 percent of the next label to be seen growth by brown plants has been proved.	114.	7	300						
new of 63.00.1: The respectant has the appears amplies porth. But herecome species are all consistent publics are all consistent publics of this less than 18 property outside of this present of the country of portsion of the relative process are theretage. Now than 18 present of them of the relation to the control of the country of the relation of the present of the country of t	the state of the s		280						
Server [7]-19053 The rangelland has a most one one there are indications of repeated evertupe. It has presented in representations of the reference on the respective for the respective of the reference on the respective. The remarked of preferring graties are grained to the soil has the respective of the respective from the respective for the respective from the respective from the respective from the respective from the respective for the respective first the best time. Single is resulted for the respective for the respectiv	There yes a series of the seri								
TOTAL		10	540	10	140	10	70		
Average Utilization	$= \frac{\Sigma f x}{\Sigma f} *$	58		14	,	7	>		
REMARKS (Use back of sheet)									

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and E = the summation symbol.

NV 4400-12 (January 1982)

KET & 11

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

411 6	Date	1 (5) (5) (5)	/AT				
///	18/20/92	(3)	De en l				a)
(4) Resource Arge (5)	10/20/92 Allot ment		OT/Alpttee		(7) Field N	ane or No.	
1/1	paso Crk	StAL	Cereson	6	1	1	
(8) Vegetation Type	(9) Range Site	3///	(10) Kind(s	1 & Class(s) of	Grazing Animal	i)	
			Pau	it Have	Seon -	a Resa	,
(11) Use Period	(12) Grating X	anagement System					
(13) Transect Location/Key Area No							
(15) Italisect pocaction/key kitts no		-23 Sec 3	4				
			Species	ORAY		Arco	2
	Mid-			ORAY Key S		Key S	pecies
(14) Use Rating of	Point	Frequency		Frequency		Frequency	
Current Year's Growth	(x)	(f)	(f) X (x)	(f)	(f) X (x)	(f)	(f) X (x)
by artising meaning.							
				-			
			1				
\$11pter (1-296): The rongeland has the appearance of very saget greated. The her herbicanes farings plant						-	10
boy be topped or slight!" mod. Carrent broadcasts	. 1 /// 1				50		40
disturbed. The semilable leasure of her broom plantic limits disturbed.	" '						
tiple Clouds. The recycled for he topped, stime							
are ungraced and 60 to 80 persons of the number of							
intact. Bust young plants of the key species are undownged. Little or to use of low value plants. There is serious orderes of imper use. The prails	22				9		
able leaders appear cropped or browned in pottles on 23 to 48 percent of the artifable leader growth of the key browne piants had been reserved.	. 30						
bearers (41-00%): The respelled appears metirals							
severed as uniformly as natural features and facilities will allow. Pifteen to 22 percent of the natural of auryont accountable of key herbacoom species		1					
round totact. To more than 18 percent of the number of law value bertacrous forage plants are stilling.	50	-	350				
brown plants appear rector uniformly stilled and at to all purvent of the artifale leader growth of buy brown plants had been reserved.							
Near #81-80-1: The rangeland has the appearance of							
complete search. Bry bernaceous species are almost completely scalled with less than 18 percent of the current severtable resulting. Sworts of theremotion	.	. ,					
agrance are massing. Ture than 18 persons of the comment of the rains between the frace plants have		•	210				
book utilized. The preferred broven plants are hode and some plant thome may be eligitly broken. Rearl all available leaders are used and for terminal bush	1 70 1				1		
runnis on any berrons plants. Appreciately 61 to 80 persons of the practicals inner growth of the key browne plants has been treared.							
Severe "\$1-7091" The rangeland has a men appearance of there are indications of repeated erverage. The is no evidence of representation of current severality	P4 ]						
of her berbaconus mocies. Ser berbaconus fornes opecies are completely etilized. The remaining study				1			
of preferred grasses are grased to the sell surface. There is no erisance of terminal hads and \$1-1001 of evaluate loader growth on the new process plants had	" 10						
been received. Some, and often nuck, of the 3rd and fre ener's growth of the press plants has been otil- tion. Sunging is readily spearent, and the presse	. ]			1			
proces are more free-outly broken.				i			
TOTAL		10	560	10	50	10	60
	Efx	. , ,					<del></del>
Average Utilization = 3		Ć	56		5		4
REMARKS (Use back of s)							
+ 12 and f = the frequer	nev or num	ber of obs	ervations w	ithin each	class inte	erval (f co	lumn),

# KFT # 12

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

/,1	Date /	(5) Observ	•				
(4) Resource Apea (	10/20 /9 2 5) Allot ment		or/Alottee		(7) Field No	se or No.	
	Poses Ork	Stan	, //	10	1 /	,	
Sanama Gerlank &	(9) Range Site	13/112	(10) Kind(	i) ( Class(s) of	Grazing Animal (	pasture	
(6) (6)	(0)				fracks		
(11) Use Period	(12) Grazing	Gnagement System	l	Avese	PRUCIES	in auso	
(13) Transect Location/Key Area	No	R23E 5	= 210				
		Activities of the second second second second	Section 2 and a second section 2 and a second section 2	ARSI	/	ATE	0
	Mid-	Key S	pecies		Species	Key S	Species
(14) Use Rating of	Point			Frequency	4	Frequency	1
Current Year's Growth	(x)	(f)	(f) X (x)	(f)	(f) X (x)		(f) X (x)
To Due 1951: The rangeland shows he evidence of							
by greing minels.				[.	. 0	7	0
Flight (1-20%): The rangeland has the apportune very laget grains. The key herbaceses forepe y her be topiced or slightly used. Gervent seedsta and young plants of her herbaceses species are it disturted. The evaliable leasers of key brown are lartle disturted.	16			::	40	:	30
if yet rejuicit: The respectant may be tropped, bit or grained in possible. The low value berkecome; have magrated and 60 to 60 persons of the number our most conductable of her hericacome plants are numberate. But promp plants of the her special of underanged, lettle or no number of her value plants. There is obvious orderes of lower une. The emails loaders appear cropped or bround in potcher 21 to 40 persons of the swalled leader growth of the key between plants has been reserved.	20	•	30				
moneyes (4)-oft): The respond appears entire terrors as unifersly as accural features and facilities will allow. Fifteen as 23 percent of the last of survent seeders as of the herbecome process lastact. In care then 18 percent of the medium for the last feature of the value forther consenses from a plant are utilized as of the medium forther terror unifersity willing as the first process plants appear return unifersity willing as the first percent of the sentials leader growth they browne plants had been recoved.	in A	, ,	208				
Never (61-80.1) The respectant has the appearance assume the accurate, by heriocross species are also consistently utilized but here than 10 percent of terrout souscitally remaining. Beens of thissens graness are massing, here than 10 percent of the names of the uplan between the traps plants have been utilized. The preferred between plants are less than the preferred between plants are less than the preferred between plants are less and some plant clauser are to singerly because it and some plant clauser are not and for terminal rounts on key between plants, supresimility of the persons of the sevialsale lesses greath of the hybrouse plants has been removed.	70		350				
Severe [9]-Juph': The rungelized has a most appeared to the property of the pr	interior (7)						
		Ω	- C/ A				7.0
TOTAL		10	580	10	40	/0	30
Average Utilization =	Σfx Σf *	5	8	4		3	
REMARKS (Use back of	sheet)						

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)

KFT#13

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

(1) 5/2/	1 (0) 80		1 (*) 01							
(1) District	(2) Dat		(3) Observer							
(4) Resource Arga	(5) 41	0/20/qz	(6) Operat	(6) Operator/Allottee			(7) Field Name or No.			
- 11	1 0	,	STAN							
(8) Vegetation Type	AND DESCRIPTION OF THE PERSON NAMED IN	Range Site	STAN	(Presole	) & Class(s) of	Grazing Animal	asture			
(0) 10,000,000,000	( )	ALLIGO COLO		(10)	Winter pasture ) & Class(s) of Grazing Animal(s)  Hace teachs, Zantelage					
(11) Use Period	(1)	) Grazing M	anagement System							
		,								
(13) Transect Location/Key	Area No.					, All 100 - 1 To 100 - 1				
	T	29N	RZZE SE	c23						
		T	Key Species		OP A	LV	Are	0)		
		Mid-	Key S	pecies	Key S	Epecies		pecies		
(14) Use Rating of		Point	Frequency		Frequency		Frequency			
Current Year's Gro	wth	(x)	(f)	(f) X (x)	(f)	(f) X (x)	(f)	(f) X (x)		
No Use (Mi: The rangeland shows no evid by grating manals.	lence of use									
oy gracing minors.					. ,		.' '	0		
						. 6		7		
Slight (1-2051: The rengeland has the apvery light grazing. The key herbecoous f	postence of trope plants					2.	$\mathcal{T}$	~ D		
may be topped or slightly used. Current	s are little	10	-, - 1, 1		,	30	1	80		
disturbed. The available leaders of key are little disturbed.	provide plants	,								
Light (21-10%): The ranguland may be top or graind in patches. The low value herb	pod, skimed,									
or graind in patches. The low value here are ungrazed and 60 to 80 percent of the surrent seedstalks of key herbocomes plan	number of									
intact. Nest young plants of the key spe undesignd. Little or ne use of low value There is obvious evidence of looder use.	CLOS APR	30	•	30		150				
There is obvious evidence of leader wot- able leaders appear cropped or browned in 21 to 40 percent of the available leader	The avail- patches and	20								
the key brouse plants has been removed.										
Moderate (4)-40%): The rangeland appears covered as uniformly as natural features	entirely and facil-									
her of surrout seedstalks of key herbaces	or the num-	1	, ,	200						
remain intact. No more than 10 percent of of low value herbaceous forage plants are browse plants appear rather uniformly uti	utilized.	50								
41 to 60 percent of the smallable lender bey browse plants has been reserved.	growth of									
Meavy (61-80.): The rangeland has the ap complete search. Bey herbacrous species completely utilized with less than 10 per			-							
current seceptalks remaining. Shorts of grasses are missing. More than 10 perces	thisonatous	2.	, ,	350			1			
number of law value herbaconus forage pla- boom utilized. The preferred browse plan and some plant clumps may be elightly bro	es are hodged	10		300						
remain on key browse plants. Approximate	iy 61 to 80						1			
percent of the available loader growth of browse plants had been removed.	the key									
Severe (\$1-1005): The rangeland has a se	ng appearance									
and there are indications of repeated cov is no evidence of reproduction of current	erage. There seedstalks	0								
of key herbacoous species. Eey herbacoous species are completely utilized. The res of preferred grasses are graind to the se	elddure gninim	40								
There is no evidence of terminal buds and available leader growth on the key browse	81-100% af									
been removed. Some, and often much, of t lid year's growth of the provise plants ha	he 2nd and d been util-									
tied. Hedging is readily apparent, and t plants are more frequently broken.	ne provid									
TO	TAL		10	580	10	180	10	80		
10.	Σf	x								
Average Utilization	on = $\overline{\Sigma f}$	*		58	14	6	8			
REMARKS (Use back	of she	et)								

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column),  $x = the class interval midpoint (x column), and <math>\Sigma = the summation symbol.$ NV 4400-12 (January 1982)

274/14

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

C Sistrict 10	) Date	(3) Observ	47				
	10/20/92		Ruen				
(4) Resource Area (5	5) Allotment	(6) Operat	er/Allottee		(7) Field N	the or No.	
Carried Contact	Lopevax		//	4	/	/	
18, Vegetation Type	(9) Range Site	10/42	(10) Kind(s	() & Class(s) of	Grazing Animal(	e)	
			Car	+ Hage	in Palle	5000 3	5 Norses
(I, Use Period	(12) Grazing F	ianagement System		hannen och filmann sin Menstagen		co cera,	11000
(ii, Transect Location/Key Area	No.	,	_				
	7291	1R23ES		,			
	1 ,	52	Hy pecies	PRM	pecies	A	co.
(14) 11 2-11	Mid-			Frequency		Key S	pecies
(14) Use Rating of Corrent Year's Growth	(x)	Frequency (f)	(f) X (x)		(f) X (x)	Frequency (f)	
	the same of the sa	(1)	(1) ^ (^)	(2)	(1) ^ (2)	(1)	(f) X (x)
by fire and manels.	_						
					0		
	1 12						
·							
Eiff (1-191): The rangeland has the appearance built index grannes. The boy hermocous forage pl	10			, ,			50
but topped or slightly used. Carpet seedels but from plants of bay barbacaous species are il	in le			, '	40	, .	-
bid People or slightly used. Current seedetal find People plants of her herbocased species are il financial. The smallable leaders of her browns p has leftle disturbed.	plants						
Man [3] -lot): The range land may be topped, oth				, ,			
Lifer fill-look): The rungeland may be topped, okler Frience as parthon. The low value horizonant years may be not for an opposed and 60 to 50 persons of the busher of few years doubterally of hey hericonous plants remained and hose weeken almost of the hor mortis are	30	* *		, .	120		90
Years the se to use of les value plants.			120		1-		' '
1) we come the contract of bearing by barrats							
A belong branch and horse beautiful	1 1 1 1 1						
programs (11-004): The Europeland appears extirely as natural features and fact	i-	1-4					
bloo oil alion. Piprom to 2 persons of the bay of furron to 2 persons of the bay of furron posternia of by brincased specificate, the more than 10 persons of the mof for value burbacous fuerage places or utilized through the control of the mof for value burbacous fuerage places or utilized to be the control of the most of the most of the control of	50	, (	300				
of for value herbacons forme places are utilize betwee places appear ruther uniformly utilized at 41 40 40 pursues of the smallable lender grach a her proving places has been reserved.							
by Prove plants her been reserved.			-				
prof. [61-60.1: The respected has the appearance	of						
\$250 [4]-\$0.11 The respected has the appearance for \$100 search. Buy bernaceous species are also for seasonable measurable precise of the few seasonables, beautiful Beautiful States of thisses \$2.00 per missing. Nore than 18 percent of the few seasonables are than 18 percent of the few seasonables.	the icom						
produce new missing. Neve than 10 present of the formest of low value heroscous furnes plants are hors utilized. The preferred brone plants are a fine done plant clumps may be slightly broken. It also	70	1 2 2			1		
Front on boy provine plants. Approximately 61 to province of the socilable leader growth of the boy betwee plants has been recoved.							
[7 * F[9 [1]-[DOL]: The tempelant has a new appeal there are indications of reposted coverage.  15 he evidence of perroduction of current newsets	IM I		, ,				
Appeals an completely stilled. The resulates							
of professed graces are grated to the oril surfa- there is no evidence of terminal buds and \$1-1001 ***!!ship londer growth on the key browne plants	of 10						
lif reneral, fonce, and often such, of the 244 a	gil-					1000	
tions, Hodging is readily apparent, and the broom plants are more frequently broken.	-						
TOTAL		10	420	10	340	10	140
	Σfx				21		,
Average Utilization = REMARKS (Use back of	Σf *	42	- 1	9	36	/	4
MARKS (Use back of	sheet)						

Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

(1) District	(2) Dat	•	(3) Obser	vet				
	11/2	1192			1.1:140			
(4) Resource Area	(S) A11		(6) Operat	2 utcheon	WITCH	(7) Flold Na	use or No.	
5.G		o Cree	b. Stan	Ceresolo (10) Kind (1				
(8) Vegetation Type	(9)	Range Site		(10) Kind(	) & Class(s) of	Grating Animal (	•)	
				Cows	. Horses	S		
(11) Use Period		) Grazing !	Anagement System					
Winter (15) Transect Location/Key								
SITHZ, FEID, ATCO	, ARSP	GRSP,						
		Mid-	517	pecies	GRS	pecies	V 6	
(14) Has Dating of		Point	Frequency		Frequency	pecies		pecies
(14) Use Rating of Current Year's Grow	et h	(x)	(f)	(f) X (x)	(f)	(f) X (x)	Frequency (f)	(f) X (x
Section 2011 - Control of the last of the		1	(-)	100	1	10 ~ (~)	(1)	117 × 1×
be the 1941: The translated stone to origin by grating membels.								,
				-				
Flight (1-194): The rengeland has the appropriate light granne. The key bertocesses for	serves of							
		10		50				
and young plants of bey betterness species disturbed. The semilable lessors of bey W new lattle disturbed.	truce glants	,	4 B					
Lifer (21-let): The respelled my be topo	d, stimed,							
or graine as perches. Do low wise better for graine as perches. Do low wise better now ungraced and 60 to 50 percent of the negatives panderally of her betterener plants	Political	- 2			D			
totact. Suct young plants of the bay most undersped. Little of no use of low value of Thore to obvious oridones of leader one.	larts.	30		30				,
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<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 19)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Winnemucca District Office
705 East Fourth Street
Winnemucca, Nevada 89445

In reply refer to:

4700 (NV 26.81)

June 5, 1992

Memorandum

To:

Sonoma-Gerlach Area Manag

From:

Amanda McCutcheon, Range Conservationist

Subject: Use Pattern Mapping on the Fox-Lake Range HMA (NV-228)

On June 2 and 4, 1992, Pre-livestock Use Pattern Mapping was conducted on the Rodeo Creek allotment in the Fox Range. Mapping was done by traversing the area on horseback and conducting five key forage transects (KFT's). On June 2, Stan Ceresola joined Dale Owen and I to do KFT #1 and #2. Dale and I rode the rest of the area on June 4 and completed KFT #3 through #5.

Six utilization classes were used: No Apparent Use; Slight Use 1-20%; Light Use 21-40%; Moderate Use 41-60%; Heavy Use 61-80%; and Severe Use 81-100%. There were 5321 total acres mapped: 1089 acres of moderate use and 4232 acres of heavy use.

#### KFT #1

Key forage transect #1 was located west of Rodeo Creek and was conducted using Pose and Chvi as key species. Actual use appeared to be 60% on Pose and 3% on Chvi. Use for this area was determined to be moderate. No horses or cows were observed within the area. Water in this area is scarce, which might account for lighter use of this area than in the other mapped areas.

#### KFT #2

The second transect was located north of Pah-Rum Peak with Pose and Sihy being used as the key species. There was not enough Sihy found in the area to do the transect, so it was eliminated. The use on Pose appeared to be 62%. Lupine and Chvi were also utilized fairly heavily in this region. Overall use of the vegetation was heavy.

.

This area was criss-crossed with trails, showing it as a high use area. Horses, cows, and antelope were all observed in this area.

#### KFT #3

KFT #3 was located at Bull Basin. Pose and Sihy were used to conduct the transect. Utilization for Pose was 68% and was 64% for Sihy. Overall use of the area was determined to be heavy. There were no cattle observed within this area, but there were a few horses and antelope.

#### KFT #4

This transect was conducted just north of Bull Basin Spring. The key species were Pose and Sihy. Use in this area appeared to be moderate with 60% use on Pose and 41% on Sihy. Again, there were no cattle observed in this area, just antelope and horses.

#### KFT #5

The last transect was done at Juniper Flat, with Pose and Sihy being the key species. Use in this general area was 64% on Pose and 50% Sihy. Overall use appeared to be heavy. No cows were seen, but several horses and antelope were observed.

Use of the area was determined to be moderate to heavy. Many factors may be contributing to this high use. The major one being lack of precipitation for both plant growth and animal use. Most of the grasses are only two inches high and have seeded out and matured.

The cows have already gone to the higher grounds, due to these conditions, while the horses and antelope were scattered throughout the area.

KFT #1

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and E = the summation symbol.

NV 4400-12 (January 1982)

KFTZ

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)

KFT#4

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<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

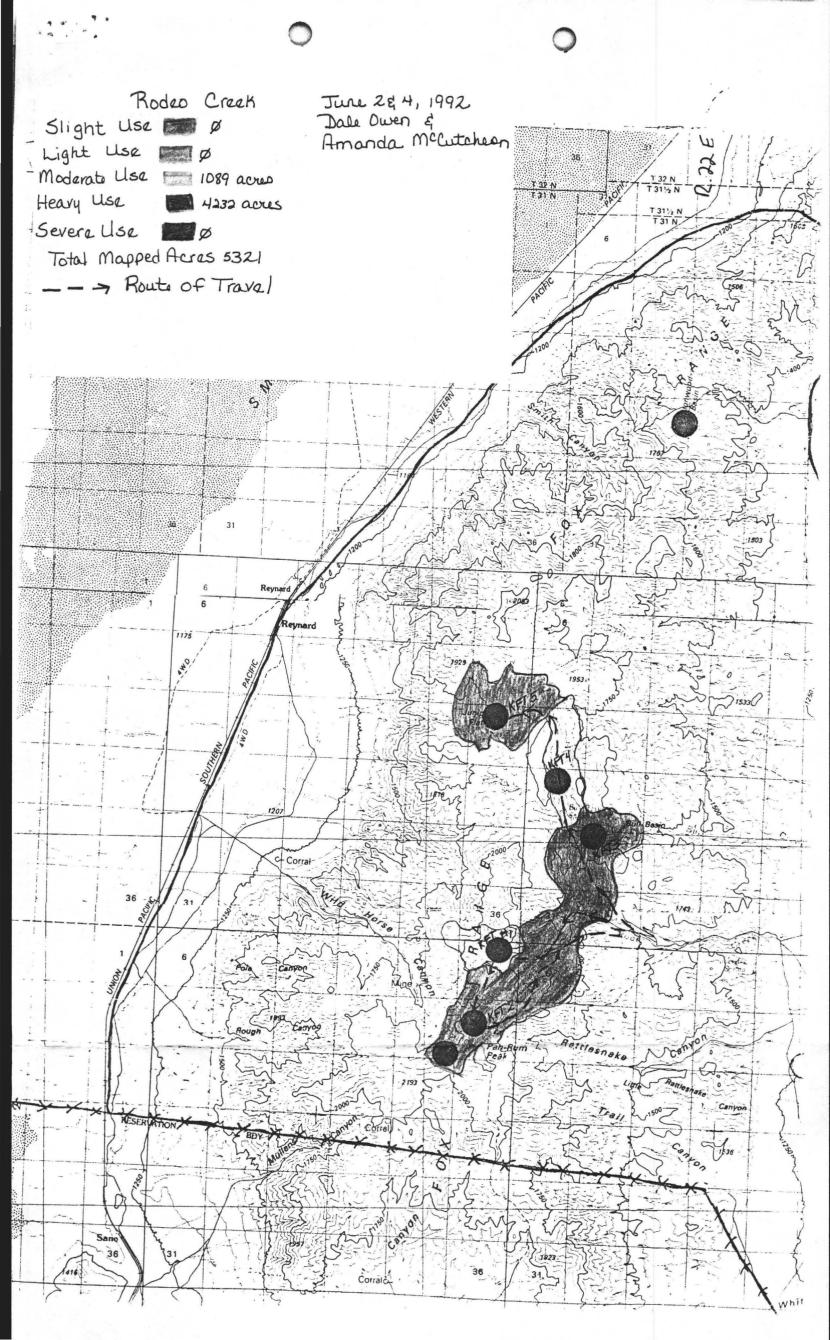
NV 4400-12 (January 1982)

KFT #3

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<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

NV 4400-12 (January 1982)



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Winnemucca District Office
705 East Fourth Street
Winnemucca, Nevada 89445

In reply refer to: 4700 (NV-026.82)

May 1, 1992

#### Margrandum

To: Sonoma-Gerlach Area Manager

From: Leigh Redick, Range Technician

Subject: Use Pattern Mapping the Fox and Lake Range HMA

From April 20-23, 1992 Amanda McCutcheon and I collected Use Pattern Mapping data for the spring range of Rodeo Creek and Pole Canyon Allotments in the Fox Range. The purpose for collecting this data was to determine the amount of wild horse use on current year's growth prior to livestock use. Six utilization classes were used to map the area: 1 - no apparent use, 2 - slight use (1-20%), 3 - light use (21-40%), 4 - moderate use (41-60%), 5 - heavy use (61-80%), and 6 - severe use (80-100%). The attached map and Key Forge Utilization forms show the utilization levels found. The weather was unseasonably warm with temperatures in the high 60's to 70's and a strong wind blowing most of the week. The Key Forage Species showing the highest utilization was used in coloring the UPM. 4710 acres of no apparent use, 10757 acres of slight use, 1962 acres of light use, 2656 acres of moderate use and 304 acres of heavy use were mapped in the Rodeo Creek Allotment. In the 'Pole Canyon Allotment 4860 acres of no apparent use, 4131 acres of slight use, and 1462 acres of light use were mapped.

#### Acces Creek Allotment

10%, Atco - 3%, and Arsp5 - 2%. The only Sihy and Pose that could be found were those protected by shrub cover. KFT#2 at Willow Creek showed Pose with 10% use and Sihy with 11%. Poa looks like it has had heavy use in the past. Cottonwood Basin showed moderate use on Pose (42%) and slight use on Sihy (4%). Twenty-one horses were sighted from the flats near the mouth of Cottonwood Creek to Cottonwood Basin. Transect #4 was conducted about two miles north of Cottonwood Creek. Use was: Sihy - 1%; Grsp - 3%; Epne - 5%. Ephedra has been heavily hedged from previous use. There was a lot of old

deer sign in the area.

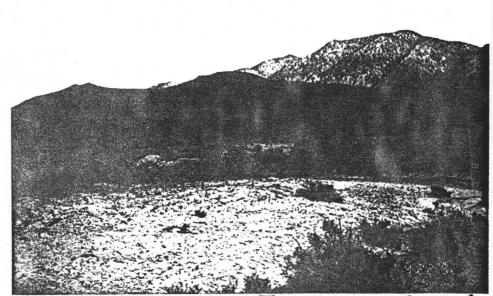
On the wast side of the Fox Range one transect was conducted at the mouth of Smith Canyon. Use on Arsp5 was 4% with no apparent use on Grsp. Both species look like they have been heavily utilized in previous years. Use on Save4 and Chvi8 was heavy on specific plants but not overall. There are well developed horse trails at the mouth of the canyon leading to the high country. A utilization cage was placed here over Grsp and Arsp5. Heavy use was noted at the second major canyon north of Smith Canyon. Grass species were very scarce, being found only when protected by shrubs. Use on Epne was heavy, with some use on Save4 and Chvi8. Water was present near the mouth of the canyon, which would probably account for the high activity. Horses were observed in this area every day. Moderate use was noted near the mouth of Lost Creek. Grsp, Chvi8, and Pose (when available) had moderate to heavy use. Sava4 was also moderately used in places. Horses have been observed in this location on a regular basis and six cows were using the area. The areas manger as no apparent use tended to be sand dunes or harsh rocky soils with Saved and Atco as the main plant cover. There was also no easy access to higher country or to water from most of these locations.

#### Pole Canyon Allotment

Use Pattern Mapping on current and previous year's growth was also completed on the Pole Canyon Allotment. KFT#6 was at the head of Wild Horse Canyon near Pah-Pum Peak. Use on current year's growth was: Sihy - 14%; Pose - 15%; and Symph - no apparent use. Use on previous year's growth was recorded April S with Paggy Wiltse. Utilization was as follows: Sihy - 68%; Pose - 66%; Symph - 40%. Although there were alot of low-growing forbs, grass cover in the interspaces was sparse. There was some Feid growing under shrubs and in rocky areas. We observed four cows on the north side of the fence in the Rodeo Creek Allotment.

A new utilization cage was placed in the saddle near the head of Mullens Canyon over Sihy and Pose. Use on current year's growth was: Sihy - 6% and Pose - 40%. Use on last year's growth was: Sihy - 40% and Pose - 66%. I hiked from the head of Rough Canyon to the mouth where Amanda picked me up. Although forage was scarce horse sign and trails were prevalent on the radgetops and along the streambed. About one mile from the mouth of the canyon sign became very scarce due to the narrow canyon, steep sideslopes, and a waterfall restricting access. This is not a recommended route. Species used for KFT #8 were Sihy, Arsp5, and Atco. Use on current year's and previous year's growth was: Sihy -13% and 38%; Arsp5 - 0% and 6%; Atco - 0% and 4% respectively.

Leigh Redick



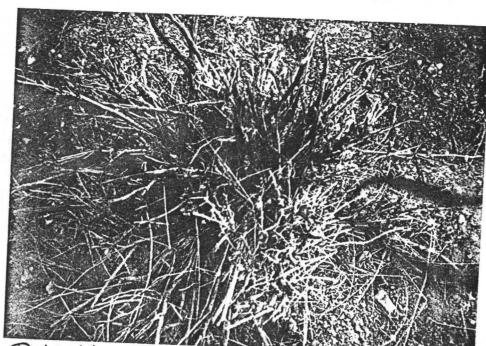
Pole Canyon Allotment - Just south of Rough Cyn.



Pole Canyon Allotment - Near Reservation Boundary



Pole Canyon Allotment - Down on flats



Rabbit brush in Pole Canyon - Eaten down

### Range Utilization Key Forage Plant Method

Current Year's Growth

					OWLY						
	(2) Date	1	(3) Observ		. 1 .						
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(8) Vegetation Type	(9) Rang		KI Cer	CSOIG KING	s) & Class(s) of	Grazing Animal	(8)				
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(11) Use Period	(12) Gra	zing M	anagement System	-							
(13) Transect Location/Key Are	a No.	1 T O	(	A - D T A	DTCDT		T30N.,1	R. 22E SEC.			
AKI	TSW, 1	418	CONCKI	45 P+, A	KISPT	TETGLA	AKTSF	NW 14			
	M-	id-	CON GRAS Key S	pecies	Key S	Decies	Key	Species			
(14) Use Rating of	Po	oint	Frequency		Frequency	-	Frequenc				
Current Year's Growt		(x)		(f) X (x)	(f)	(f) X (x)		(f) X (x			
No Use (04): The respelled shows no evidence by grazing souncis.	of use						# 4	1			
of firsted memory.			• •	0	LI	0	14	0			
Slight f1-2051: The rungeland has the appears very light grazing. The hey heriocous forage may be tapped or slightly used. Curvait souls and young plants of hey heriocous species are discussed. The smallable lessers of hey brown are lartie disturbed.		0	••	40	::	30	•	20			
tipe (1)-lot): The rungeland may be tupped, or grained in potches. The less value horbecomes ungrared and 60 to 60 persons of the number current posintarity of they bertoneous plants to latter. Host young plants of the hey species undemaged. Little or us use of less value plants to be a sortion ordenee of less value plants to be leaders appear crupped or brussed in put 21 to 40 percent of the swallble leaders appear the buildhel leader great the key brusse plants has been reserved.	shimmed, or plants or of stata area ta. oreals- feer and sh of	0	••	60							
indervie (41-60%): The rangeland appears settleward as uniformly as natural features and fittle will allem. Pifrom to 25 percent of the of surprust seedstalks of key horterous premis lates. No seer than 18 percent of the of les usle herbecous freque plants or util brunce plants appear ruther uniformly utilized it to 60 percent of the smallable leader great her brunce plants has been removed.	rely heil- se hei- section tunder look. t and	0									
Heavy (61-60-1): The rempeland has the appear complete sourch. Bey berimmone specied are a completely utilized both less than 19 person current posedraths reminance, Showth of this granes are massing. Here then 13 persons of these remover of lew value herrincouse forage plants; houn utilized. The preferred brown plants are mad peace plant almost not peace plant almost not peace plant almost not peace plant are used and for trendar remain or the previous plants. Approximately 61 persons of the swalled leader growth of the browne plants had been removed.	of the state of the	0									
Severe (f)-1004): The rangeland has a none ap- med there are indications of repeated according in the evidence of reproduction of curvest book of key berincemous species. Early Newholesons for species are completely exilized. The remains of preferred granders are grand to the sell be There is no evidence of terminal basis and fl-in resultable leader greath on the key revene plan- boom removed. Some, and often back, of the lift year's growth of the brown plants has be ined. Heiging is readily apparent, and the be plants are more frequently breass.	stalls age g statele g statele gstate gstate gstate gstate gstate gstate gstate gstate gstate	0									
mom			10	100	10	30	10	20			
TOTAL	Σfx	-	10 1	100	10		10	~ 0			
Average Utilization REMARKS (Use back of	$= \overline{\Sigma} f *$		109	σ	3 %	70	2 %	)			
KEMAKKS (USE DACK OI	. SHEEL)										

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column),  $x = the class interval midpoint (x column), and <math>\Sigma = the summation symbol.$ NV 4400-12 (January 1987)

5		Current	Year's Gr	rtuu			
(1) District (2)		(3) Observ		1			
	20/92	Redic	or/Allottee	utcheon	(7) Field N	spe or No.	
	den	(0) 000120	01/14101100		KFT		
	) Range Site	1	(10) Kind(s	) & Class(s) of	Grazing Animal	s)	-
(11) Use Period (	12) Graving	Management Systim					
(11)	,						
(13) Transect Location/Key Area No.						vy vee on S	TITHU
5 JETTSW, ATRC	ON POF	SEC STIT	HII, SITI	TYS GRAS	bī mr	sit Hys	
T.30 N. R :: W Sec 4	Mid-		pecies	Key S	pecies		pecies
'14) Use Rating of	Point	Frequency		Frequency		Frequency	1
Cu.rent Year's Growth	(x)	(f)	(f) X (x)	(f)	(f) X (x)	(f)	(f) X (x
No Une 1941: The rungeland shows no ovidence of use by grazing animals.						1 -	
	0					•	0
	1						
and a self-self-self-self-self-self-self-self-							
Silver (1-201): The rungeland has the appearance of very light grains. The key herencouse foreign plants may be tapped or alightly used. Carrent sectorally and young plants of key herencouse species are lictle disturbed. The smallable inseres of key brown plant	10		20				20
disturbed. The smallable lenders of her brosse plant are little disturbed.							
tiple (2)-301): The rengeland may be tapped, phismed		1.				• •	
tipe (2)-001): The rengeland may be topped, nhisted or grained in patches. The low volume herbacoust plant are ungraved and 60 to 80 percent of the number of surrout seederaliae of key herbacoust plants remainment. These revenue plants of the herbacoust plants remainment. These revenue plants of the hey specials are			180			•.	
surrout sociatalia of her horizonus plants remain intact: Next young plants of the hey special one undenaged. Little or ne use of les value plants. There is serious orizonus of leacer use. The outli- nile leaders appear cruppus or bround in patches and 21 as 46 percent of the socialed leader growth of the key brunes plants had been removed.	30		100				90
Il to 46 percent of the available leader growth of the key bronce plants has been reserved.							
Moderate (21-66%): The rangeland appears entirely covered as unifermly as natural focuses and facil-							
ities will alies. Fifteen to 25 percent of the number of current conductable of her herborous species runals letter. To see that is percent of the union to the conductable of the subset.	50		100				
her of nurrent poedetalls of by herescens specime remain facture. The sore than 10 percent of the number of low value herhotomus forage plants are utilized. Browce plants appear rether uniformly utilized and 41 to 60 purcent of the sociable leader grach of hey browce plants had been removed.							
	-						
therw (4)-80-1: The rangeland has the appearance of complete search. Boy herbacoust species are almost empletely utilized outh less than 10 purposes of the newsonic conductable remnance. Shorts of this contents							
complete search. May be a considered by the completely willied seth less than 10 persons of this our rest productile remaining. Shorts of this our remaining reason are unsiming. Nove then 10 persons of the number of low value herbacous fermap plants have been stillined. The perferred betwee plants are hedge them.							
and none plant clumps may be slightly broken. Hearly all available leaders are used and for terminal buts manual on her become plants. Approximately 61 to 80	1						
persons of the swallable leader growth of the bay brooms plents has been removed.					<u> </u>		
Severe (91-1001): The rangeland has a soon appearant and there are indications of reposted everage. Ther							
is no evidence of reproduction of curvous sectifile of key burbacrous species. Key burbacrous furnes are committee; statists. The remaining states	1					İ	
of preferred granes are grand to the sell surface. There is no evidence of terminal hole and \$1-100' of available loader greath on the key brouse plants has	90						
been recoved. Sees, and eften mach, of the Dad and 3rd year's growth of the browse plants has been util- teed. Hadesan is readily apparent, and the browse							
plants are more frequently broken.							•
TOTAL		16	300			10	110
Σ. Σ	fx						1.0
Average Utilization = \( \overline{\bar{\gamma}}	f *	30	6			11 %	
REMARKS (Use back of sh	eet)		_			1 /4	

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column),  $x = the class interval midpoint (x column), and <math>\Sigma = the summation symbol.$ NV 4400-12 (January 198)

#### Range Utilization Key Forage Plant Method

Current

lears Growth

(1) District	(2) Dat		(3) 08	Server					
WMCA		0/92			McC	utcheon		12 :	
(4) Resource Area	(5) A1	lotment	(6) Op	erstor/	Allottee		(7) Field )		
SG	Roo	Range Site	k			s) & Class(s) of	KF.	T 3	
(8) Vegetation Type	(9)	Range Site			(10) Kind(	s) & Class(s) of	Grazing Animal	(8)	
(11) Use Period	(12	) Grazing F	lar agement Sy	stem					
(15) Transact Location/Yev As	Tee No		,						605
(13) Transect Location/Key As  7 A RITS W  (14) Use Rating of Current Year's Grow	VAT	RCON	GRASPI	E, CH	ARVIS J	UNSCO C	REPTS TE	TGLA EPH	NEN - poder
	,	Mia-	Ke Ke	OASE y Spe	cies	SITH Key S	ys Species	GRASF Kev	I Species
(14) Use Rating of		Point	Freque	ncy		Frequency	1	Frequency	4
Current Year's Grow	th	(x)	(f)		f) X (x)	(f)	(f) X (x)	(f)	(f, X (x
In the (0%): The rungeland shows no ovidence by graine minels.	a of wa	0			0	L	0	Not E	loug to
<u>Blight (1-20%)</u> : The rangeland has the appearance to the property light graining. The low betteecous foremer be topoed or slightly used. Current see not young plants of her hericaness species a disturbed. The smallable leaders of her bre are little disturbed.		10	•		10	• •	40	•	
Light (3)-804): The runguland may be trapped or praised in postners. The low value horizon are ungranted and 60 to 20 persons of the non-zeropac nondecalits of tay herizonous plants incasts. Rose; rowag plants of the hey special undemaged. Little or to use of low value pi thore is obvious orienteed of the content of the property of the content of the ovalished leader greated by bruson plants has been runwed.	ants.	30	•		90				
Numerous (d1-00%): The rangeland appears an developed an uniformly as natural features and line will allow. Fifture to 25 percent of her of current bondstalks of her herborous remain latest. To move them 10 percent of a cf Lov value herborous forage plants for a few proper plants appear pattern unifously utilized to the purpose of the outlinds leader gruing browns plants has been removed.	species to tember tilized.	50	• •		250				
there (61-80-1): The rempotant has the appearing letts search. By herincewes species are completely utilized set in set lost than 10 percent completely utilized set in lost the search of the grance are miching. Here then 10 percent headers of low wise hereacous furnge plants been utilized. The preferred browne plants and sees plant clamps one be slightly broken all available leaders are used and few termi remain on key browne plants. Appreciantly percent of the ovaliable leader growth of the browne plants appreciantly percent of the ovaliable leader growth of the browne plants has been removed.	t of the possentous of the pare briged b. Rearly and buse al to 80	70	•		70			,	
Severe (\$1-1005): The respeland has a sum and there are indications of represent soverall as an evidence of representations of the better of the better of the perfections species. Lay better on the preferred grasses are grand to the seil. There is no orience of terminal bade and it available looser greate on the best available looser greate on the best are party of the several present to the best and of the present provide of the browney lasts has been appeared to the best and of the plants are sove frequently broads.	ocistalia urage ing stubble surface. -100% of ants has Dud and oon util-	90							
TOTA	L		10	L	120	10	40	5	
Average Utilization REMARKS (Use back o	$= \frac{\Sigma f}{\Sigma f}$	*		2%		47			

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol. NV 4400-12 (January 1982)

Range Utilization
Key Forage Plant Method

lots otndeer sign

Current Year's Growth

		Current Y	ear's Grow	th			
(1) District (2) Day  WMCA 4/2	/	Redic		utcheon			
(4) Resource Area (5) Al	Range Site	K (6) Operation	pr/Allottee	s) & Class(s) of	(7) Field N K F Grazing Animal(	TY	
(11) Use Period (13	) Grazing	lanagement System					
(13) Transect Location/Key Area No.	- NV = E	PHNEU CRA	CPT ART	TSW TE	TALA		
Space ARTSPI, ATRO	Mid-	SITHY Key S	pecies	GRAS Key S	PI pecies	EPHNE V	Species
(14) Use Rating of Current Year's Growth	Point (x)	Prequency (f)	(f) X (x)	Frequency (f)	(f) X (x)	Frequency	
To the 1941: The runguland shows no evidence of use by grazing animals.	O		0	n	0	П	0
Siight /j-294): The rengeland has the appearance of very light grains. The key herbaceous forage plants may be tapped or slightly used. Current scedesible and young plants of key herbaceous species are little disturbed. The available isosors of key brouse plants are lattle disturbed.	10	•	10	• •	30	• •	20
Light (3)-803): The renquiand may be tropped, shimmed, for grained lab pinches. The low usion berthosomal plants are ungraved and 40 to 40 persons of the number of nursual necessarials of the hardsoness plants remain instact. Hower promp plants of the hey species are undemanged. Little as to use of low under plants. There is decision or cleance of low under plants. There is decision or cleance of lonear use. The sensitive belowers appear cropped or breused in patches and 21 to 40 persons of the ovailable londer growth of the key breuse plants use boar removed.	30						30
Mondeyves (d1-00%): The runquiand appears settrely covered as uniformly as natural features and facilities will alies. Fifteen us 25 present of the mon-ber of current seedstalks of bay bertacens species remain intert. We seeve than 15 percent of the uniform of les value herbacensus foruge plants are utilized. Brunce plants appear ruther uniformly utilized and it so 60 purcent of the socials leader growth of hey brunce plants as been runswed.	50						
Heavy (6)-80-1: The rempaised has the appearance of complete search. Say between openion or almost completely utilized with loss than 18 process or almost completely utilized with loss than 18 process of the compression of the completely utilized. He remains a parameter of the names of law value horisocous futage plants, have been utilized. The preferred betwee plants are hedged and seen plant clamps may be slightly bream. Restly all available leaders are used and for tognical been remained on the process of the swellable leader growth of the hey bruwe plants has been removed.	70						
Sovers (11-100A): The rungeland has a most appearance and there are indications of repeated overage. There is no evidence of reproduction of curvent needstalks of hey herbaceous species. Key herbaceous herape species are completely utilized. The remaining sumble of preferred grasses are grased to the soil huefface. There is no evidence of terminal buds and II-100's of available leneter grouts on the boy brosses plants has been reserved. Some, and often much, of the 2nd and 3rd year's growth of the browse juncts has been stillined. Hedging is readily apparent, and the brosse plants are more frequently brease.	90						
TOTAL		10	. 10	10	30	10	50
Average Utilization = $\frac{\Sigma f x}{\Sigma f}$ * 1% 3% 5%							
REMARKS (Use back of she	et)				-1	min1 (6 and	

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column),  $x = the class interval midpoint (x column), and <math>\Sigma = the summation symbol.$ NV 4400-12 (January 1982)

Current wars				51	nich Canu	on Capo	
(1) District (2) Dat	/ /	(3) Observ	1	, , ,	nuth Cary	0	
(4) Resource Area (5) All	23/92 lotaint	Redic	or/Allottee	utcheo	(7) Field Na	ne or No.	
SG Rode		(0) 000120	01/12/01/04		KFT		
(8) Vegetation Type (9)	Range Site		(10) Kind(s	) & Class(s) of	Grazing Animal(s	1)2	
(11) Use Period (12	) Grazing M	anagement System					Annual Commence of the Commenc
(13) Transect Location/Key Area No.	0 040	DOTP E	Soboda 1	IDOI TI	EGL		Marketine and a second
5 page			pecies	GRSD	,		
(:4) Use Rating of	Mid- Point	Frequency		Frequency	pecies	Frequency	Species
Current Year's Growth	(x)	(f)	(f) X (x)		(f) X (x)	(f)	(f) X (
No Disc (CG): The rangeland shows no oridence of use by graining sensels.			1		1 (2)		127 1
by graineg moinels.	0	I	0	П:	0	. •	
Slight (1-20%): The rongeland has the apparence of very light graining. The her berthocenes forego plants may be topped or slightly used. Compute contraliate and young plants of key heriocenes species are little disturbed. The smallable lenders of key bronce plants are little disturbed as	10	•	10				
Light (?)-001): The runquimed may be copped, shimmed, or grained in poncious. The law voice hordecount plants now ungraved and 60 to 80 pursues of the number of nurvent pondentials of her herhocoves plants running inciset. Here young plants of the key species are unchanged. Little or so use of law value plants. There is obvious oridones of income use. The swell-make lendows appear croppes or bround in purches and 21 to 60 pursues of the available lender growth of the key broune plants has been removed.	30	•	30				
Numerore (A)-office The rangeland appears metically covered as unifersty as astural features and finalities will allow. Fifton to 35 persons of the mober of courrent seekershis of they berthesses species remain intest. To some than 15 persons of the master of low value berthessess from plants are utilized. Browse plants appear ruther uniformly utilized and 13 to 60 persons of the multible leader growth of hey browse plants has been removed.	50,						
there's (41-80.1): The rempsions has the appearance of ampiete search. Bey berimment upside are himsel completely utilized outh less than 18 persons of the energy measurement remnance. Boots of thismentous grances are missing. Now then 18 persons of the names of few value hortscontail forcage plants; have been utilized. The perfected browse plants are incided and some plant alongs only is slightly became. Bearly 111 available leaders are used and for torutand buts running on key between plants. Approximately 61 to 60 persons of the multiple leader growth of the bay browse plants has been running.	70						
Source (1]-10041: The rampoians has a most appearance and there are indications of reposted coverage. There is no evidence of reproduction of curvest socialists of the vertecoves species. Ear vertecoves forces to operate species are complexely utilized. The remaining stubies of preferred grasses are grassed to the soil burface. There is no evidence of tremain bade and II-1004 of available leader growth on the key browne plants has been removed. Some, and often such, of the Dad and I'd year's growth of the browner plants has been removed. He will be the transport of the Dad and I'd year's growth of the browner, and the browner plants are more frequently broken.	90						
TOTAL		10	40	10	0		
Average Utilization = $\Sigma f$ REMARKS (Use back of she	x et)	49	20	0			

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column),  $x = the class interval midpoint (x column), and <math>\Sigma = the summation symbol.$ NV 4400-12 (January 1987)

Current Year (	Jam. Nh	Gara	re (01d)				
(1) District [6	) Date	(3) Obser	701	10 Add - Ann 12 Add - 12 A			
wrong	4/21/9	2 Redi	ck, mcc	24tcheo	$\circ$		
(4) Resource Area (5		(6) Opera	ter/Allottee		(7) Field	Name or No.	
54	ole Can	1001		s) & Class(s) e	K	FT 6	
(8) Vegetation Type	(9) Range Sit	•	(10) KING(	s) & C1855(5) •	E PLATING WITH	1(8)	
(11) Use Period	(12) Grazing	Management System					
50-0							
(13) Transect Location/Key Area	6. Amal	people	Feio	- light is	y where	ound	
(13) Transect Location/Key Area	Ernamin	Karunanlike	Riber S.	impk, Ju	niper. (	hryso. Le	iping
The second	Mid-	SIH	pecies	Pos	Species	Sym	ob.
(14) Use Rating of	Point			Frequency		Key	Species
Current Year's Growth	(x)	(f)	(f) X (x)		(f) X (x	rrequent	(f) X (x
to but 1951: The L delied stone to ovidence of the present seasons.	The same of the sa		100		120	4	1100
by gracing musics.						-	
			3	•	. 5	111	
<u>Flight ri-2941:</u> The remptions has the appearance of very Light graining. The her bertaceness Swings plants by the topped on a lightly used. Certain sweetelih	. 10		20		4.3		
and young plants of her hermotonic species are list disturbed. The available inners of her brusts pla new little discurbed.	10		au				
since (21-593): The respectant mer to tropped, phiss for granted an practice. The new value hardescents pla- ner ungrand and 60 to 60 province of the number of nurvent bookstalks of her hardescents plants remain	30	• • .	105	• •	5		
our voice decidefuls of her inchestons plants vomine inchest. Her young plants of the hot species ore undermoped. Little or in use of les value plants. There is obvious oridence of leader tab. The roots ship leaders appear crupped or bround in patches a 21 to 40 perions of the inchesible leader growth of the bdy broads plants has been possend.	30	-	125	:	7)		
	The state of the s						
Systems (41-661): The tempeland appears entirely deverse as an inverse as assumed features and feature sizes well allow. From no 25 persons of the tem- ber of nurvent neederalts of boy bortnesses species					ا .		
her of derivent possessing of provinces species pensals factals. In some than 10 percent of the ban- of low value hertacrous forage plants are utilized. Speace plants appear resher uniforally milized and all to 60 percent of the socialist leader growth of lay brune plants has been removed.	- 50				క్ర		
#1 to ## persons of the soulishie leader growth of toy brooms plants has been reserved.							
there (\$1-\$0.1) The respected has the appearance of despises search. By between species are almost one letely utilized such less than 10 property of the derivate secondally remaining. Bests of this posterior of the contract secondally series of this posts of the contract secondally series of this posts of the contract secondally series of the contract secondally series of the contract of the con	1	THE RESERVE OF THE PROPERTY OF					
greases new massag. Here then 18 persons of the							
number of his value hereacous forage plants have been exiliant. The professed browns plants are hed and ness plant clumps may be eligitly brown. Beer							
all available leaders are used and for terminal but remain on key browne plants. Approximately 61 to 8 persons of the semilable leader grown of the key			1			~	
browne plants has been renoved.				1	- 1		
Sovere [2]-10011. The rengeland has a new appearant and there are indications of repeated deverogs. The							
is an evidence of improduction of current necessible of her hermocrous species. For hermocrous forage apocies are completely stillized. The remaining state							
of preferred grance ore grane to the soil bufface. There is no evidence of terminal bads and 81-1801 of swellphip looser grouts on the ter proces plants has	1101						
been treated. Some, and often then, of the 3rd and Jrg rear's growth of the prove plants has been still Lind, Studied to readily apparent, and the browns			1				
Plants are more frequently proces.	1.						
TOTAL		Gf	140	10	155	10	0
verage Utilization = $\frac{\Gamma_{fx}}{\Gamma_{f}}$ + $\frac{\Gamma_{fy}}{\Gamma_{fy}}$ \Second 9							
REMARKS (Use back of sl	neet)						

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and  $\Sigma$  = the summation symbol.

Current Years	Fromth		lew Caq	s					
(1) District	) Date	21/92 Mc Cutcheon, Redick							
(4) Resource Ares * (5	) Allotment	lotment   (6) Operator/Allottee   (7) Field Mame					•		
(8) Vegetation Type	(9) Range Site						Participation of the Control of the		
(11) Use Period	(12) Grazing	) Grazing Management System							
(13) Transect Location/Key Area	No.						:		
-RAPT ARTE PO	SE, SIH.			A					
$\neg \rho$ , i.e.	Mid-	SIH Key	SIH ± Key Species		Key Species Frequency (f) (f) X (x)		Key Species Frequency		
(14) Use Rating of Current Year's Growth	Point (x)	Frequency (f) (f) X (x)		Frequency (f)			(f) X (x		
he has reprint the programs as evidence of a fracting section.	1	17.	0			( <b>f</b> )	(1) x (x		
Plick (1-201): The respelant has the appearance very sages greated. The last hardscares former planes of hor horizons device planes of her horizons special are point planes of her horizons special are life distances. The smallable because of her bruces planes at last latter distances.		, 0	30	•	20				
Light (21-left): The respectant mer to troped, this for grains as principes. The less value bertweening fit are unjuried and to the fit present of the temper of acronic standard. Here young plants of the large principe medium. Little or on use of less two properties for meanings. Little or on use of less value plants. There is advised ortiones of tensor with. The real mode becomes agreem original to be truend in patches 121 to 48 persons of the sealable leaster greats of the large between plants has been successful.	30		30	• •	60				
Specyto (21-091): The puspoint appears swilpely develope to entered because and facilities will allow. Fifteen to 25 persons of the bit of specyton generalized for inchances specific remain bettet. In case that 15 persons of the test of law persons from plants are stilled for some plants appear retare uniformly stilled and 42 to 45 persons of the section of the test persons of the article leader growth of lay between plants has been reserved.	"   30			90	250				
Spece fileSolt The purpoint has the appearance of humpions boards. Buy between system are almost consistent or almost consistent processed of the formation of the following process on the tender of the consistent of the consistency of the cons	70			•	70				
E-roys [7]-1904). The rung-land has a soon appears and there are indicestions of repeated evertipe. To it to originate he indicestion of expenses for exercise sections for the first production of exercise sections for the first production of exercises for the expenses of the first production of preferred grantes over grates to the soil furface. There is no evidence of tertifical buts and H-1804 for smallelle loader greates to the tert brown plants he been truescoped. Some, and often back, of the 3rd and 1904 was of greates he been stilled. The greatest he been stilled. The greatest has been stilled. The greatest has been stilled.	90								
TOTAL		10	60	10	400				
Average Utilization = $\Sigma f x$		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL	6% 40%						
REMARKS (Use back of s	heet)								

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column), x = the class interval midpoint (x column), and \( \Sigma = \text{ the summation symbol.} \)

NV 4400-12 (January 1982)

	Previous	(3) Obser	1)sc				
(1) District (2	) Date		Ver .	/ 11			
(4) Resource Area (S		9) Red	ick Ma	Cytche	on		
	) Allotment		tor/Allottee		(7) Field Na	_	
S G (8) Vegetation Type	Pole Car	yon			KFI	7	
(8) Vegetation Type	(9) Range Sit	•	(10) Kind(	s) & Class(s) o:	Grazing Animal(s	1)	
(11) Use Period	(12) Grazing	Management System					
(13) Transect Location/Key Acea			new cage	put in			
aces Art-su ART	ARB, SY	MPH. Ribo	3				
,		POASI	£ 2	SITH			
	Mid-			Key Species		Key Species	
(14) Use Rating of	Point			Frequenc		Frequency	
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	0						
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ities will allow. Piftson to 25 percent of the n ber of current sonderaits of key hertectous speci- ruman intest. To more than 10 percent of the m of low value herbacous forage plants are utilized	50		100		150		
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ized. Modging is readily apparent, and the brown plants are more frequently broken.							
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	The second secon				The second second second second second		

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column),  $x = the class interval midpoint (x column), and <math>\Sigma = the summation symbol.$ NV 4400-12 (January 1987)

Current Years	Grou	s4h						
(1) District (2) De	122/00	(3) Observ	mcCutcheon, Redick					
(4) Resource Area (5) A	llotment	(6) Operator/Allottee (7) Field Name or No.						
SG Pol	Range Site		(10) Kind(s	) & Class(s) of	Grazing Animal(			
(a) regeration type	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(00)	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,			
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(13) Tre sect Location/Key Area No.	. 11	, — ,	^.	10000			1	
Brt. Arsp. Sihi, A	too, Ho		, Chryso	Atco	rs to be	high use	area)	
7 paces	Mid-	Key Species		Key Species		Key Species		
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Average Utilization = $\frac{\Sigma f x}{\Sigma f}$ REMARKS (Use back of sheet)		1397	0	Ø		Ø		

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column),  $x = the class interval midpoint (x column), and <math>\Sigma = the summation symbol.$ NV 4400-12 (January 1982)

Range Utilization Key Forage Plant Method of roce = sight. A

		Previo	05 /	6,0,1	h			
(1) District	(2) DEE	.•	(3) Obser					
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(4) Resource Area  S G		Conin		tor/Allottee		(7) Field Name or No.		
(8) Vegetation Type	(9)	Range Site		(10) Kind(s) & Class(s) of Grazing Animal(s)				
(11) Use Period	(12	) Grazing	lanagement System	1				
(13) Transect Location key As	rea No.							
- TITGLA BROTE	c, SI	THI 4	RTSPS ATA	11				
	•	Mid-	Key Species		Key Species		Key Species	
(14) Use Rating of			Frequency		Frequency		Frequency	
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brunce plants appearer rather uniformly still di to 60 pursunt of the smilable leader gre buy brunce plants has been reserved.	poth of							
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and some plant clumps may be slightly broken all available leaders are used and for term runnia on key browse plants. Approximately	n. Hearly			1 10				
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tied. Hedging is readily separate, and the plants are more frequently broken.	ptanee							
			1.0	30.		10	1.5	<u>ا</u> م
TOTA	L Σf:	-	10	380	10	60	10	40
Average Utilization	$r = \frac{2\Gamma}{\Sigma f}$	^ <u>*</u>	389		6%		4 %	
REMARKS (Use back of	of she	et)					1.0	

<sup>\*</sup> Where f = the frequency or number of observations within each class interval (f column),  $x = the class interval midpoint (x column), and <math>\Sigma = the summation symbol.$ NV 4400-12 (January 1982)

- Attachment 3

#### AGREEMENT FOR IMPLEMENTATION AND CHANGES IN AVAILABLE LIVESTOCK FORAGE AND LIVESTOCK GRAZING USE ADJUSTMENTS FOR THE RODEO CREEK ALLOTMENT

#### I. INTRODUCTION

This agreement is based on the Rodeo Creek Allotment Evaluation dated and documents the changes in existing livestock grazing practices on the Rodeo Creek allotment.

The agreed upon changes in livestock use, as documented below, are made in order to achieve the management objectives for the public lands under Bureau of Land Management control identified in the Sonoma-Gerlach land use plan, which are specifically related to authorized livestock grazing use on the Rodeo Creek allotment.

This agreement was prepared in consultation cooperation, and coordination with affected permittee, Stan Ceresola.

- II. ALLOTMENT SPECIFIC OBJECTIVES AND ANALYSIS, INTERPRETATION, AND EVALUATION OF EXISTING MONITORING DATA
  - A. Allotment Objectives
    - 1. Short Term
      - a. Utilization of key plant species in 596 acres of wetland riparian habitat shall not exceed 50% except where adjusted by an approved activity plan. (WL-1.10)
      - b. Total utilization of antelope bitterbrush (PUTR2) shall not exceed 50% and 40% on quaking aspen (POTR5) except where adjusted by an approved activity plan. (WL-1.7) and WL-1.9)
      - c. Maintain an acceptable allowable use level on key forage species  $\frac{1}{2}$  that will provide a sustained yield.
        - 1/ Key forage species whose use serves as an indicator to the degree of use of associated species; or those species which must, because of their importance, be considered in a management program.

#### 2. Long Term

- a. Improve to and maintain the condition of 596 acres of wetland riparian habitat type to good or better. (WL-1.10)
- b. Protect sage grouse strutting grounds and nesting wintering habitat and improve brooding habitat by: (WL-1.11)
  - 1) Following NDOW's guidelines for Vegetal Control Programs in Sage Grouse Habitat in Nevada.

- 2) Maintain sagebrush canopy at 30% in sage grouse nesting and wintering areas where sagebrush does not exceed (3) feet in height.
- c. Manage, maintain and improve public rangeland habitat condition to provide forage on a sustained yield basis, with an initial forage demand for big game of 177 AUMs for mule deer, 137 AUMs for pronghorn and 150 AUMs for bighorn sheep by:
  - Improve or maintaining Fox Range DY-1 (16,224 acres) mule deer habitat to good condition.
  - 2) Improving or maintaining Fox Range AY-5 (38,100 acres) pronghorn habitat to good condition.
  - 3) Improving or maintaining Fox Range BY-3 (32,530 acres) potential California bighorn habitat at 75% of optimum.
  - 4) Improve bitterbrush from severely hedged form class to lightly hedged form class.
- d. Manage, maintain and improve rangeland conditions to provide forage on a sustained yield basis with an initial stocking level of 6,462 AUMs.
- e. Improve range/ecological condition 1/ from: poor to fair on 162,458 acres fair to good on 27,076 acres good to excellent on 1,934 acres.
- f. Manage, maintain and improve public rangeland conditions to provide an initial level of 4,020 AUMs of forage on a sustained yield basis for 335 (AMLs) 2/ wild horses in the Fox and Lake Range Herd Use Area.
  - 1/ The range/ecological conditions in this document are forage condition that will be replaced with ecological status condition as information becomes available. The objective will be redefined/ quantified to obtain a particular ecological status when site potential and identified uses are combined to meet vegetative objectives.
  - 2/ AML refer to adult horses and burros (i.e. two years or older).
- g. Maintain and improve the free-roaming behavior of wild horses and burros by protecting and enhancing their home range.
- h. Maintain/Improve wild horse/burro habitat by assuring free access to water.

# III. AGREED UPON CHANGES IN AVAILABLE LIVESTOCK FORAGE AND/OR LIVESTOCK USE ADJUSTMENTS

# A. From (Description of Existing Use)

#### 1. Kind, Class and number of Livestock:

Cow-calf Cattle 835 C (05/01 - 10/31) 150 C (11/01 - 04/30)

#### Period of Use:

03/01 - 02/28 Yearlong

# 3. The Allotment to be Used:

Rodeo Creek Allotment

#### 4. The Amount of Use (AUMs):

Total Preference 9,336 (AUMs) Active Preference 6,462 Susp. Preference 2,874

# 5. Percent Federal Range:

99%

# 6. Grazing System

Grazing management is a rest rotation grazing system under a two pasture, winter and summer use area. The period-of-use is yearlong. Grazing treatment is as follows:

Grazing Treatment

Rodeo Creek Allotment

# 5/1 6/1 7/1 8/1 9/1 10/1 11/1 12/1 1/1 2/1 3/1 4/1

Graze Fox Range (5/1-10/31)

Summer Use Area

835 C

Graze east side

(11/1-4/30) Winter Use Area

The summer use area is the Fox Range on the west side. The winter use area is the east side and includes the San Emidio Desert, the southern portion of the Black Rock Desert and the Lake Range.

The majority of livestock use occurs during the late spring-summer-early fall season-of-use. During the period (05/01-10/31) 835 cattle graze in the Fox Mountain summer use area. During the winter early spring period cattle numbers drop to 150 Head for the period (11-1-4/30). Winter use occurs in the east portion of the allotment.

Active grazing preference is 6462 AUMs. Licensed use has been stable and has ranged from 5153 AUMs to 5851 over the 10 year period except in 1987 where use was 4169 AUMs. Estimated wild horse numbers for the period 1983 to 1987 have varied from 371 numbers to 787.

Based on licensed use dating back to 1981, 835 cattle were licensed during the summer period (5/01-10/31) and 150 cattle licensed during winter (11/1-4/30). The combination of cattle and wildhorse numbers alone total 1200 or more animals utilizing the summer country over the period 1983-1986. The majority of grazing use on the allotment occurs in the summer use area.

# Wildlife

No specific wildlife population data area available for this allotment. Present estimates, however, indicate 334 AUMs demand for mule deer, 210 AUMs for pronghorn and 0 for bighorn sheep.

#### 8. Wild horses

Population Data Est. July 1987

Est. July 1988

491

545

# B. To (Description of Agreed Upon Changes)

1. Kind, Class, and Number of Livestock:

Cattle cow/calf 485 C

### 2. Period of Use:

No change 03/01 - 02/28 Yearlong

#### 3. The Allotment to be Used:

Rodeo Creek Allotment

#### 4. The Amount of Use AUMs:

Total Preference 9,336 Suspended Preference 3,520 Active Preference 5,816

#### 5. Percent Federal Range:

100%

# 6. Grazing System

Initiate a five year reduction in the active preference from 6,462 AUMs to 5,816 AUMs and reduce livestock numbers in the summer country. The five year reduction will be for the period (04/01/88 - 02/28/93). The 10% reduction would total 646 AUMs. The yearlong stocking rate at 10% reduction would be 485 cattle. Livestock use will then maintain 485 cattle yearlong rather than changing numbers in the summer and winter use areas. The 485 cattle would be a reduction from past use in the summer country from 835 cattle. This would increase numbers in the winter country from the historical use of approximately 150. This management change would reduce stocking level in the summer country where a reduction is needed, but would increase use in the winter country where forage can withstand more grazing pressure.

Grazing management would be a rest-rotation grazing system under a three use area system.

Maintain the past winter and summer use areas and initiate use in the spring area. Make use as follows;

Turnout will be made in the winter use area of the Rodeo Creek Allotment. The winter use area includes the eastern portion of the Rodeo Creek Allotment and that area east of the Fox Range to include the San Emidio Desert, the Lake Range and the southern portion of the Black Rock Desert.

For the period 05/01 - 05/30 cattle will utilize the spring use area which includes the foothills of the Fox Range along both the east and west sides.

On 06/01 cattle will be moved into the summer use area which includes the high country of the Fox Range and will remain on the Fox Range until 10/30.

On 11/01 cattle will be moved back to the winter use area as described above and will remain until 04/30.

Range Improvements will continue to be identified for better distribution and livestock control in all areas. Livestock will be distributed and controlled by horseback and placement of mineral supplements during the grazing period to achieve even distribution and proper utilization levels. This will reduce the concentration of animals on White Sage Flat and Rodeo Creek Canyon.

Pasture	5/1	6/1	7/1	8/1	9/1	10/1	11/1	12/1	1/1	2/1	3/1	4/1	5/1
Foothills of Fox Spring Spring Use Area	05   to   05	/30   /5 C					REST						
Fox Range Summer Use Area	RE	ST   	Graze	06/01 485 (		10/30				REST			
East Portion Winter Use Area			]	REST			Gr	aze 11 48	./01 t 5 C	o 04/	30		

#### IV. SPECIFIC MONITORING PROGRAM

- A. Utilization and actual use studies will be conducted annually to determine whether or not utilization levels on key species are exceeding proper use levels identified in the objectives.
- B. Frequency and production studies will be read to evaluate trend and ecological condition.
- C. An evaluation will be conducted in 5 years (1993) to analyze the changes in management described in this agreement.

#### V. FUTURE ADJUSTMENTS

An evaluation will be conducted in 5 years (1993) to analyze the results of the changes made in management described in this agreement and at this time a change in management and/or preference may be made.

#### VI. AUTHORITY

43 CFR 4110.3-3, 4130-6

VII. The agreed upon changes in available livestock forage and/or livestock use adjustments identified above are binding on any successor interest or future transforees with such modifications as approved or required by the authorized officer.

VIII. SIGNATURES

Sonoma-Gerlach Resource Area Manger

Date

# Rodeo Creek Rangeland Monitoring Evaluation

- Allotment Information I.
  - Rodeo Creek (0129)

Permittee: Ceresola Category (I) Priority (4)

B. Allotment Description

The allotment is located in northern Washoe County with the northern perimeter near Gerlach, Nevada.

The typical physiographic features of the allotment are the high elevation north-south trending Fox and Lake Ranges to the valley floors of the San Emidio, Black Rock and Smoke Creek deserts. The allotment is approximately 25 miles long in a north-south direction and 16 miles wide in a west-east direction.

Vegetation types in the allotment include those from the greasewood-saltbush flats to the sagebrush-Bluegrass-needlegrass vegetative types at the higher elevations.

Land Status Public Land 193,402 (Acres) 97%

Other Land 5,373 (Acres) 3% 198,775

- C. Livestock Use
  - Total Preference 9,336 (AUMs) Active Preference 6,462 Susp. Preference 2,874
  - 2. season-of-use Yearlong 03/01-02/28
  - 3. Kind and Class of Livestock Use Cow/calf
  - 4. Grazing System

Grazing management is a rest rotation grazing system under a two pasture, winter and summer use area. The period-of-use is yearlong. Grazing treatment is as follows:

Grazing Treatment

Rodeo Creek Allotment

#### 6/1 7/1 8/1 9/1 10/1 11/1 12/1 1/1 2/1 3/1 4/1 5/1

Graze Fox Range (5/1-10/31)

Graze east side (11/1-4/30) Winter Use Area

Summer Use Area

150 C

835 C

The summer use area is the Fox Range on the west side. The winter use area is the east side and includes the San Emidio Desert, the southern portion of the Black Rock Desert and the Lake Range. There is not an AMP for the allotment.

The majority of livestock use occurs during the late spring-summer-early fall season-of-use. During the period (05/01-10/31) 835 cattle graze in the Fox Mountain summer use area. During the winter early spring period cattle numbers drop to 150 Head for the period (11-1-4/30). Winter use occurs in the east portion of the allotment.

Active grazing preference is 6462 AUMs. For the period 1978-1987 licensed use in the Rodeo Creek Allotment was consistently below active preference. Licensed use has been stable and has ranged from 5153 AUMs to 5851 over the 10 year period except in 1987 where use was 4169 AUMs. Estimated wild horse numbers for the period 1983 to 1987 have varied from 371 numbers to 787.

Based on licensed use dating back to 1981, 835 cattle were licensed during the summer period (5/01-10/31) and 150 cattle licensed during winter (11/1-4/30). The combination of cattle and wildhorse numbers alone total 1200 or more animals utilizing the summer country over the period 1983-1986. The majority of grazing use on the allotment occurs in the summer use area.

Licensed Use (1981-1988)

 Total AUMs	for	Year	
 1978/79		5851	
1979/80		5851	
1980/81		5257	
1981/82		5257	
1982/83		5153	
1983/84		5851	
1984/85		5851	
1985/86		5851	
1986/87		5010	
1987/88		4169	

# D. Allotment Objectives

#### 1. Short Term

a. Utilization of key plant species in 596 acres of wetland riparian habitat shall not exceed 50% except where adjusted by an approved activity plan. (WL-1.10)

b. Total utilization of antelope bitterbrush (PUTR2) shall not exceed 50% and 40% on quaking aspen (POTR5) except where adjusted by an approved activity plan. (WL-1.7) and WL-1.9) c. Maintain an acceptable allowable use level on key forage species that will provide a sustained yield. Key forage species whose use serves as an indicator to the degree of use of associated species; or those species which must, because of their importance, be considered in a management program. 2. Long Term Improve to and maintain the condition of 596 acres of wetland riparian habitat type to good or better. (WL-1.10) b. Protect sage grouse strutting grounds and nesting wintering habitat and improve brooding habitat by: (WL-1.11) 1) Following NDOW's guidelines for Vegetal Control Programs in Sage Grouse Habitat in Nevada. 2) Maintain sagebrush canopy at 30% in sage grouse nesting and wintering areas where sagebrush does not exceed (3) feet in height. c. Manage, maintain and improve public rangeland habitat condition to provide forage on a sustained yield basis, with an initial forage demand for big game of 177 AUMs for mule deer, 137 AUMs for pronghorn and 150 AUMs for bighorn sheep by: 1) Improve or maintaining Fox Range DY-1 (16,224 acres) mule deer habitat to good condition. 2) Improving or maintaining Fox Range AY-5 (38,100 acres) pronghorn habitat to good condition. 3) Improving or maintaining Fox Range BY-3 (32,530 acres) potential California bighorn habitat at 75% of optimum. 4) Improve bitterbrush from severely hedged form class to lightly hedged form class. Manage, maintain and improve rangeland conditions to provide forage on a sustained yield basis with an initial stocking level of 6,462 AUMs. Improve range/ecological condition 1/ from: poor to fair on 162,458 acres fair to good on 27,076 acres good to excellent on 1,934 acres. - 3 -

- f. Manage, maintain and improve public rangeland conditions to provide an initial level of 4,020 AUMs of forage on a sustained yield basis for 335 (AMLs) 2/ wild horses in the Fox and Lake Range Herd Use Area.
  - 1/ The range/ecological conditions in this document are forage condition that will be replaced with ecological status condition as information becomes available. The objective will be redefined/ quantified to obtain a particular ecological status when site potential and identified uses are combined to meet vegetative objectives.
  - 2/ AML refer to adult horses and burros (i.e. two years or older).
- g. Maintain and improve the free-roaming behavior of wild horses and burros by protecting and enhancing their home range.
- h. Maintain/Improve wild horse/burro habitat by assuring free access to water.

#### E. Monitoring Data

#### 1. Climatological Data

Four weather stations are available for data; Leonard Creek, Dufurrena Ponds, Dry Canyon RAWS station and Denio.

Leonard Creek station is located approximately 15 miles northeast of Soldier Meadows Ranch. Dufurrena station is located approximately 30 miles west of Denio on Sheldon Antelope range.

The Remote Automated Weather Systems (RAWS) meteorological station (Dry Canyon) is approximately nine miles north of Soldier Meadows Ranch on the west side of the Black Rock Range at an elevation of 4,900'.

The following table depicts moisture received at Leonard Creek Station for the period 1977-1987.

Leonard Creek Station

	Precipitation	in Inches	Departure From Normal*		
Year	Growing Season	Annual Total	Growing Season	Annual_	
1977	4.33	8.23	+ .09	-1.99	
1978	4.81	10.20	+ .57	02	
1979	5.84	12.26	+1.60	+2.04	
1980	3.45	8.55	79	-1.67	
1981	4.29	11.43	+ .05	+1.21	
1983	6.94	17.74	+2.70	+7.52	

1984	3.00	8.50	-1.24	-1.72
1985	2.48	6.82	-1.76	-3.40
1986	4.85	9.60	+ .61	62

\* - Normal = 10 year average = 10.22" Annual = 4.24" Growing Season

The following chart depicts moisture received at Dry Creek (RAWS) station since July 1986 when it was established and compares readings with those at Denio, Nevada.

		Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1986	(RAWS)											.1		
1986	(Denio)	)			2.05	1.68	.69	.00	.08	.24				
1987	(RAWS)	.9	.6	.7	1.3	2.7	1.1	.1	.0	.4	.3	.3	.3	8.7
1987	(Denio)	)		1.17	1.05		2.61	.61	T					

The following chart depicts moisture received at Dufurrena Ponds for the period 1977-1985.

# Dufurrena Ponds

Year	Precipitation in Inches
1977	7.35
1978	10.33
1979	11.10
1980	8.18
1981	7.19
1982	4.13
1983	11.18
1984	10.77
1985	3.53
1986	8.56
1987	

The 10 year average = 8.23 Annual

#### 2. Utilization

Utilization data in the winter country indicates use is generally below AULs. However, moderate and heavy use has occurred in the White Sage Flat area and in Rodeo Creek Canyon area. No data is available for the Summer Use area. Based on field observation from SLS and wild horse inventory personnel moderate and heavy use has occurred in the Fox Range repeatedly over the past several years (1977-1987).

#### 3. Trend

Trend data has been collected at two exclosure sites. The Rodeo Creek data indicates a decreasing trend for the period (1978-1981). The Rattlesnake Canyon data indicates changes are erratic being both up and down and are inconclusive for the period (1978-1981).

# 4. Habitat Inventory and Evaluation

#### a. Inventory

No baseline data has been collected since the general overview provided for the Sonoma-Gerlach Grazing EIS. The Nevada Department of Wildlife (NDOW), however, has reported in their big game investigations and hunting season recommendations the habitat continues to be in fair to poor condition. Although 35,907 acres of sage grouse habitat has been delineated in the allotment no strutting grounds or specific brood areas have been identified to the BLM.

# 5. Past Inventories

Sonoma-Gerlach EIS Condition and Trend

The estimated ecological range condition class as cited from the Sonoma-Gerlach EIS for the Rodeo Creek Allotment is as follows:

# Range Condition Class

	Excel	lent	Good		Fai	.r	Poor	
Total Acres	Acres	%	Acres	%	Acres	%	Acres	%
193,402	1,934	1%	1934	1%	27,076	14%	162,458	84%

The estimated trend as indicated from the Sonoma-Gerlach EIS is as follows:

# Trend Direction

Total Acres	Upward Acres	Stable Acres	Downward Acres
193,402	0	0	193,402 (100%)

#### F. Management Actions

#### 1. Wild Horse and Burros

A total of 790 head have been removed from Rodeo Creek Allotment.

Year	Animals Removed
1980	312
1986	478

Populat	the same of the sa	Wild Horse Est July 1984 #	Est July	CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.			1987 #	-
Rodeo Creek	371/1	412/1	457/1	508/1	787	442	491	545

2. Fox and Lake Range Herd Management Area (HMA) includes the Rodeo Creek and Pole Canyon Allotments.

	AML	AUMs	% HMA
Rodeo Creek	334/1	4,020	92
Pole Canyon	100	1,200	8
Total	434/1	5,220	100%

3. Change in Wildlife Populations

No specific population data are available for this allotment. Present estimates, however, indicate 334 AUMs demand for mule deer, 210 AUMs for pronghorn and 0 for bighorn sheep.

#### II. Management Evaluation

#### A. Short Term

1. Utilization of key plant species in 596 acres of wetland riparian habitat shall not exceed 50% except where adjusted by an approved activity plan. (WL-1.10)

The purpose of this objective is to determine progress toward achievement of long term goal 2b(1) and to help determine progress toward achievement of long term goal 2b(2).

SCS and wild horses inventory personnel report moderate to heavy use in the Fox Range, but no data has been gathered on the wetland riparian sites.

 Total utilization shall not exceed 50% for antelope bitterbrush (PUTR2) and 40% on quaking aspen (POTR5) except where adjusted by an approved activity plan. (WL-1.7 and WL-1.9).

The purpose of this objective is to determine progress toward the attainment of long term goal 2b(3). Utilization on PUTR2 and POTR5 has not been determined.

3. Maintain an acceptable allowable use level on key forage species what will provide a sustained yield.

Use Pattern Mapping and utilization data are not available for the summer use country. Use Pattern Mapping and utilization data in the winter country indicates use levels are below AUL's No baseline or trend data are available to evaluate if the objective is being achieved.

4. Improve bitterbrush from severely hedged form class to lightly hedged form class.

A special report completed 1980 showed heavy utilization of bitterbrush throughout the allotment. No additional data has been collected.

Heavy utilization of forage throughout the allotment could be an indication of overly high mule deer and pronghorn populations as well as livestock grazing practices and excessive wild horse and burro numbers. (Personal communication Dobel and Armentrout).

5. Manage, maintain and improve rangeland conditions to provide forage on a sustained yield basis with an initial stocking level of 6,462 AUMs.

Trend data indicates that for the period (1978-1981) at Rodeo Creek Exclosure trend is decreasing while at Rattlesnake Canyon trend is erratic in change. Although trend data has not been collected since 1981, the grazing system has not changed and conditions are probably continuing in the same direction. Utilization data is not available to evaluate achievement of this objective.

6. Manage, maintain and improve public rangeland conditions to provide an initial level of 4,020 AUMs of forage on s sustained yield basis for 335 (AML's) 1/ wild horses in the Fox and Lake Range Herd Use Area.

The Appropriate Management Level for the Fox and Lake Range HMA was established in July 1982. Herd numbers have been above AML since 1982, ranging from 11% to 135% above AML in the Rodeo Creek Allotment. This objective has not been met.

A post removal census conducted after the 1986 horse removal showed the Rodeo Creek portion of the Fox and Lake Range HMA to be 107 animals above AML. However, the Pole Canyon portion of the HMA was 49 head below AML. The AML for the whole HMA after the 1986 removal was exceeded by 58 horses (13% above AML).

7. Maintain and improve the free-roaming behavior of wild horses by protecting and enhancing their home ranges.

Range improvements and other developments have not restricted the free roaming behavior of the wild horses and burros within the allotment. The objective has been met.

 Maintain and improve wild horse habitat by assuring free access to water.

except in White Sage Flat and Rodeo Creek Canyon. Utilization data is not available to quantify the achievement of this objective. Improve range/ecological condition 1/ from poor to fair on 162,450 acres and from fair to good on 27,076 acres and good to excellent on 1,934 acres. 1/ The range/ecological conditions in this document are forage condition that will be replaced with ecological status condition as information becomes available. The objective will be redefined/quantified to obtain a particular ecological status when site potential and identified uses are combined to meet vegetative objectives. B. Long Term Improve or maintain the condition of 596 acres of wetland riparian habitat from early seral to late seral or higher. (WL-1.10)No baseline or trend data are available to evaluate this objective. 2. Protect sage grouse strutting grounds and nesting and wintering habitat and improve brooding habitat by: (WL-1.11)

- a. Following NDOW's guidelines for Vegetal Control Programs in Sage Grouse Habitat in Nevada.
- b. Maintain sagebrush canopy cover at 30% in sage grouse nesting areas where sagebrush does not exceed (3) feet in height.

No baseline or trend data are available to evaluate achievement of this objective. Higher utilization could be a benefit to brooding areas providing the meadows are not disappearing while sagebrush canopy in nesting habitat is probably being helped by over utilization of the understory. However, higher utilization of the understory will lower nesting success.

- 3. Manage, maintain and improve public rangeland habitat condition to provide forage on a sustained yield basis, with an initial forage demand for big game of 177 AUMs for mule deer, 137 AUMs for pronghorn and 150 AUMs for bighorn sheep by:
  - a. Improving or maintaining Fox Range DY-1 (16,224 acres) mule deer habitat to good condition.
  - b. Improving or maintaining Fox Range AY-5 (38,100 acres) pronghorn habitat to good condition.
  - c. Improving and maintaining Fox Range BY-3 (32,530) acres) potential California bighorn habitat at 75c% of optimum.

Wild horses and burros within the allotment have free access to all waters. The objective has been met. III. Conclusion A. Based on field observations it appears that the upland and wetland riparian utilization objectives are not being met. B. Use pattern mapping on the winter range show that the objectives are being met except for White Sage Flat and Rodeo Creek Canyon. C. Wild horse numbers are above AMLs. IV. Recommendations No recommendations can be made based on existing data. However, the livestock permittee has recognized the imbalance between summer and winter use areas and will agree to the following modifications: 1. A five year reduction in the active preference from 6,462 AUMs to 5,816 AUMs and reduce livestock numbers in the summer country. The 10% reduction would total 646 AUMs. The yearlong stocking rate at 10% reduction would be 485 cattle. Livestock use will then maintain 485 cattle yearlong rather than changing numbers in the summer and winter use areas. The 485 cattle would be a reduction from past use in the summer country from 835 cattle. This would increase numbers in the winter country from the historical use of approximately 150. This management change would reduce stocking level in the summer country where a reduction is needed, but would increase use in the winter country where forage can withstand more grazing pressure. 2. Maintain the past winter and summer use areas and initiate use in the spring area. Make use as follows; Turnout will be made in the winter use area of the Rodeo Creek Allotment. The winter use area includes the eastern portion of the Rodeo Creek Allotment and that area east of the Fox Range to include the San Emidio Desert, the Lake Range and the southern portion of the Black Rock Desert. For the period 05/01 - 05/30 cattle will utilize the spring use area which includes the foothills of the Fox Range along both the east and west sides. On 06/01 cattle will be moved into the summer use area which includes the high country of the Fox Range and will remain on the Fox Range until 10/30. On 11/01 cattle will be moved back to the winter use area as described above and will remain until 04/30. Range Improvements will continue to be identified for better distribution and livestock control in all areas. Livestock - 10 -

will be distributed and controlled by horseback and placement of mineral supplements during the grazing period to achieve even distribution and proper utilization levels. This will reduce the concentration of animals on White Sage Flat and Rodeo Creek Canyon. 3. Develop and AMP for the allotment. 4. Allow habitat types in key sage grouse brooding areas to improve to good or better and then graze to the benefit of sage grouse within the prescribed grazing schedule. 5. Remove wild horses from the HMA in the allotment to AML's. Monitoring and Inventory Needs A. Monitoring 1. Actual Use 2. Utilization/Use Pattern Mapping 3. Trend 4. Wild horse distribution and seasonal movements and population estimates. 5. Complete Habitat Suitability Index 6. Collect climate data from existing stations 7. Water quality Inventory 1. Wildlife habitat condition 2. Ecological Status 3. Riparian/Wetland/Aspen Condition 4. Soil Survey General Information VI. A. The following documents have been reviewed for the evaluation: Sonoma-Gerlach Environmental Impact Statement (1981). Sonoma-Gerlach Land Use Plan/MFP III. 3. Sonoma-Gerlach RPS. - 11 -

4. Sonoma-Gerlach HMA and WH&B Inventory and Population estimate records. Rodeo Creek Study File. 6. Winnemucca District Coordinated Monitoring Plan. 7. Evans, Carol. 1986. Effects of Cattle Grazing on Sage Grouse Use on Meadows in the Sheldon NWR. Thesis. 8. Wildlife Habitat in Managed Rangelands - The Great Basin of Southeastern Oregon. Sonoma-Gerlach RA Method for Evaluating and Monitoring Riparian Habitat in Relation to Terrestrial Needs. 10. Bighorn Sheep Habitat Monitoring Plan for Sonoma-Gerlach 11. BLM Manual Supplement 6630-Big Game Studies. 12. Armentrout & Gardetto. Habitat Suitability Rating System for California Bighorn Sheep. B. Participants involved with this evaluation: 1. Area Manager - Gerald Brandvold Supervisory Range Conservationist - Paul Jancar Range Conservationist - Chris Mayer 3. 4. Wildlife Biologist - Don Armentrout 5. Wild Horse Specialists - Tom Seley/Dick Wheeler 6. District Wildlife Biologist - Dennis Tol 7. District Range Staff Officer - Ron Kay - 12 -