

You have expressed an interest in receiving information about the 1993 wild horse management actions within the Susanville District of the Bureau of Land Management.

Enclosed for your review and comment is the Proposed Action and Environmental Assessment for four wild horse herd management areas on the Surprise Resource Area for 1993. If no adverse comments are received, the Proposed Decision will become the Final Decision. The comment period will be for 30 days, from June 28, 1993, until the close of business on July 28, 1993.

All comments and questions should be sent to the Surprise Resource Area Manager for his consideration and use in issuing the Final Decision. Please address your correspondence to:

USING MEP#'S INSTRAD J. Anthony Danna Surprise Resource Area Manager P.O. Box 460 the hor actus where the Cedarville, CA 96104 License of Use in Conyon Sincerely, 1 ong 2 J. Anthony Danna Surprise Resource Area Manager ocuration to remained Minimum AM- DIVERSITY GENETIC DIVERSITY Enclosure (1) EA No. CA-028-93-03 4 1. will gut change

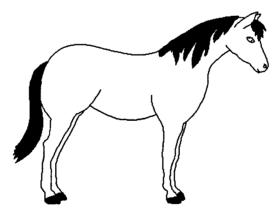
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# WILD HORSE GATHERING AND REMOVAL

# BITNER, HIGH ROCK, NUT MOUNTAIN, AND WALL CANYON HERD MANAGEMENT AREAS



ENVIRONMENTAL ASSESSMENT SURPRISE RESOURCE AREA JUNE 22, 1993

## TABLE OF CONTENTS

.....

BACKGROUND
NEED FOR PROPOSED ACTION
PROPOSED ACTION 4
OTHER ALTERNATIVES
ISSUES
DESCRIPTION OF THE ENVIRONMENT 5
WATER
SOILS AND VEGETATION
WILDLIFE
THREATENED AND ENDANGERED SPECIES
WILD HORSES 7
Wild Horse Diets 8
Wild Horse Riparian Forage Demand
Current Wild Horse Population Levels
Bitner HMA
High Rock HMA
Nut Mountain HMA
Wall Canyon HMA
Monitoring Results and Recommended Management Levels 13
WILDERNESS
CULTURAL RESOURCES 15
LIVESTOCK
IMPACTS OF THE ALTERNATIVES
BITNER, NUT MOUNTAIN, AND WALL CANYON HMAS 17
Riparian Issues
Wild Horses
Wilderness
Cultural Resources
HIGH ROCK HMA, EAST OF CANYON HOME RANGE 20
Riparian Issues
Cultural Resources
Wild Horses
Wilderness
DESCRIPTION OF MITIGATION MEASURES AND RESIDUAL IMPACTS 21
PERSONS/AGENCIES CONSULTED

### **APPENDICES**

1.	HELICOPTER GATHERING PLAN	•	24
2.	WILD HORSE POPULATION ANALYSIS	•	30
3.	RIPARIAN AREA FORAGE PRODUCTION AND WILD HORSE		
	DEMAND FOR RIPARIAN SPECIES	•	38
4.	VEGETATION CONDITION AND TREND TRANSECTS	•	42
5.	UTILIZATION MONITORING	•	43
	ACTUAL USE REPORTS		
7.	ARCHEOLOGICAL SITE SURVEY FORMS	•	45
8.	WSA, IMP COMPLIANCE	•	46

#### WILD HORSE GATHERING AND REMOVAL BITNER, HIGH ROCK, NUT MOUNTAIN, AND WALL CANYON HERD MANAGEMENT AREAS

#### SURPRISE RESOURCE AREA

#### ENVIRONMENTAL ASSESSMENT CA-028-93-03

#### BACKGROUND

The Proposed Action would occur on the Surprise Resource Area, Cowhead/Massacre Planning Unit, Washoe County, Nevada.

The Proposed Action is subject to the Cowhead/Massacre Management Framework Plan 3 (MFP), and has been reviewed for conformance with the MFP (43 CFR 1610.5, BLM MS 1617.3). Actions on four Herd Management Areas (HMA) are evaluated. For the High Rock HMA East of Canyon Home Range the proposed action is in conformance with sub-unit 1; Decision #3 as amended on 11/3/83 and Decision #7. For the Bitner, Nut Mountain, and Wall Canyon HMAs the proposed action is in conformance with Sub-unit 2; Decisions #4 and #15. The proposed action complies with the resource management goals for the High Rock Canyon area and the utilization standards for the other areas.

#### NEED FOR PROPOSED ACTION

#### BITNER, NUT MOUNTAIN, AND WALL CANYON HMAS

An analysis of the current monitoring data, utilization mapping, 1992 wild horse counts, and the most recent trend data, found that there were excess wild horses on the four HMAs. With the current numbers, on the Bitner, Nut Mountain, and Wall Canyon HMAs a thriving natural ecological balance could not be maintained.

#### HIGH ROCK HMA, EAST OF CANYON HOME RANGE \*

The 11/3/83 amendment to the MFP referring to the High Rock sub-unit (sub-unit 1) states in part; when additional forage becomes available, "allocations will only be made to wildlife and non-consumptive uses for the canyon bottoms and east of the canyon."

Through the EIS and MFP processes the primary resource values in the High Rock area were determined to be scenic, cultural, historical, wildlife, and primitiveness. Sub-unit 1; Decision # 6 states, "manage all ecological sites within Subunit 1 to achieve site potential." Grazing by livestock and wild horses was determined to be detrimental to the primary values and Decision #6. Livestock grazing was ended in 1984. A small number of wild horses was determined to be compatible with these values and Decision #6. The Herd Management Area Plan (HMAP) set the management level at 30 - 40 wild horses on the East of Canyon Home Range. 1992 dounts found 55 wild horses in High Rock and east of the canyon.

DEFINITION SET DOESN'T MEAN SET IN STORE

<u>Site Potential</u> Part of ecological theory is that we can predict what plant community will exist in a specific setting in the absence of disturbances. This plant community, which will take some number of years after the last disturbance to develop, will have a stable species composition for many years. This assemblage of plant species is called site potential.

The process for arriving at the recommended wild horse management levels conforms with BLMP Instructional Memo No. 90-30 (IM 90-30) issued October 12, 1989.

#### **PROPOSED ACTION**

#### DESCRIPTION OF PROPOSED ACTION

Gather wild horses on the Bitner, Nut Mountain, Wall Canyon HMAs to the minimum recommended management levels. Gamer wild horses on the High Rock HMA, East of Canyon Home Range, and reduce their numbers to the minimum number set in the MFP.<sup>®</sup> Bach HMA will be gathered to the minimum management level and allowed to increase to the maximum management level before further analysis.

Table 1. Herd Management Areas and Wild Horse Population Levels.

	Recommended Management	<u>1992</u>	<u>1993</u>	<u>Approximate</u> Number to
<u>HMA</u>	Levels	<u>Census</u>	Projection	be Removed
Bitner	15 - 25	40	48	33
Nut Mountain	30 - 55	52	62	32
Wall Canyon	15 - 25	78	94	79
High Rock	30 - 40	55	66	36
East of Canyon	Home Range			

These herds would also be restructured at this gather. Herd integrity will be carefully preserved. The goal is that only horse which are four years old and younger will be removed. Younger horses are more adoptable, so they cost BLM less for holding and maintenance.

#### DEFINITIONS

<u>Base Herd</u> is the reproductive horses returned to a herd management area following a gather. In Susanville District, this number is the minimum management level.

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Structured Herd Management is: Gathering as many horses from a herd management area as practical. Selecting horses for return to the HMA which are five years old and older and appear capable of propagating offspring which are well adapted to the herd's habitat. Selecting younger horses needed to complete the "base herd" for return to the herd management area. At subsequent gathers replacing "base herd" horses that have died with horses four years old and younger either from the herd or from other wild horse herds.

Structured herd management was developed by the Susanville District. It is analogous to, but more detailed than, the general BLM policy of selective removal.

<u>Herd Integrity</u> is choosing horses for the "base herd" which reflect existing characteristics in the herd that have made it well adapted to its habitat,

For specifics of the gather see the "Helicopter Gathering Plan for Wild Horses in the Bitner, Wall Canyon, Nut Mountain and High Rock Herd Management Areas," (appendix 1).

#### **OTHER ALTERNATIVES**

- 1. Gather wild horses on the four HMAs, but do not structure the herds. This alternative was not given further consideration, because it violates the BLM policy of selectively removing young horses at gathers.
- 2. Do not gather wild horses at this time. Wait until monitoring data shows that there has been a degradation in the condition of upland vegetation.
- 3. Remove all the wild horses from the High Rock HMA. This alternative would be in conformance with the MFP's Objective 2; subunit 1, land use goals 1 and 2 and decision #6. This alternative would not comply with decision #3, the forage allocation decision.

As long as wild horse numbers can be kept low, 70 - 100 head in the High Rock HMA, with 30 - 40 head in the East of Canyon Home Range, and the vegetation continues to progress towards site potential and impacts to cultural sites are acceptable, then there is no need to consider removing all wild horses from the High Rock HMA. The proposed action has been meeting the MFP's vegetation and cultural resources goals, therefore, the complete removal of wild horses from the High Rock HMA alternative will not receive further consideration.

#### ISSUES \*

Three main issues will be addressed in this EA: 1) Riparian area utilization. 2) Wild horse populations in balance with the primary resource management goals in the High Rock Canyon area, preservation of cultural resources, wildlife habitat enhancement, and reestablishment of a primitive setting. 3) Affects on wild horses.

On the Bitner, Nut Mountain, and Wall Canyon HMAs heavy and severe utilization of riparian areas is occurring. In 1992, as a result of the drought and subsequent reductions in cattle numbers, there were areas where, in the complete absence of cattle, wild horses produced heavy and severe utilization on riparian areas.

High Rock HMA has two home ranges, East of Canyon and Little High Rock, separated by High Rock Canyon. High Rock Canyon is an Area of Critical Environmental Concern and a proposed National Conservation Area. "The Canyon contains the Lassen/Applegate Trail, a National Register historical site. It also has many National Register quality archeological sites. These historical and archeological values, along with the improving condition of the vegetation in High Rock and its tributary canyons, both for its own value and for wildlife habitat, are being negatively impacted by the current number of wild horses using the canyons.#

The proposed action is to gather wild horses. The alternative is to not gather horses at this time. The impacts and affects of both actions on the retained and removed horses will be assessed.

#### **DESCRIPTION OF THE ENVIRONMENT**

#### WATER

1992 was the sixth consecutive year of drought (below normal precipitation) in northwestern Nevada. As a result drinking water amounts and sources for all animals have been greatly reduced. Generally 50% of the drinking water locations were dry in 1992. The result has been the concentration of animals at the remaining water sources and increased intra- and inter-specific interaction and stress. It resulted in direct competition between wild horses and antelope for drinking water. Increased animal concentrations also resulted in heavier than normal trampling impacts on riparian vegetation and soils. The winter of 1992-93 was wetter than normal. Drinking water problems are likely to be reduced in 1993: However, the adverse affects of severe use on the areas around water sources during the drought persist. Also the amount of ground water recharge required for recovery of normal spring and stream flows is not known.

Badger Creek, which crosses about one mile of public land, is the only perennial creek on the Bitner HMA. Most of the creek lies on fenced, private land: The East of Canyon Home Range has one intermittent creek, High Rock Canyon. The Nut Mountain HMA has one perennial creek, Hanging Rock Canyon. The Wall Canyon HMA has one perennial creek, Cottonwood Creek.

Most of the drinking water sources on the Bitner HMA are reservoirs. On the East of Canyon Home Range most of the drinking water is at springs. On the Nut Mountain HMA drinking water sources include reservoirs, springs, and Hanging Rock Canyon. On Wall Canyon HMA drinking water sources are mainly springs and the creek.

#### SOILS AND VEGETATION

The four HMAs lie along the eastern side of the Surprise Resource Area in northeastern Washoe County, Nevada. The soils are desert and volcanic influenced soils typical of the region. Sagebrush/grassland is the dominant vegetation community. There are large areas of low sagebrush. Big sagebrush is abundant in areas with deeper soils. Areas with higher salinity are dominated by greasewood. At higher elevations and in some areas with better moisture regimes, mountain brush species enter the plant community. Grasses and grass-like plants make up about 15% of the total vegetation. Riparian areas occupy much less • than 1% of the total area. (The plant communities on the four HMAs range from early to late successional stages. Trend is generally up in upland areas, as a result of improving livestock management over the past 10 - 20 years and maintaining wild horse populations around carrying capacity.

#### **DEFINITION**

<u>Riparian Area</u> is an area of land directly influenced by permanent water. It has different physical, soil, and vegetation characteristics than the surrounding uplands reflecting the influence of permanent water. Riparian areas occur as stream side corridors, lake shore margins, and meadows below springs.

Unlike most of the surrounding uplands, the riparian area vegetation has not been improving. Riparian areas in the Bitner, Nut Mountain, and Wall Canyon HMAs are in unacceptable condition. The soils have received perennial, year long trampling producing hummocks in meadows and destabilizing creek banks. Trampled stream banks slough into the creek. As a result the creek becomes shallower, wider, and siltier. Loss of protective bank vegetation results in gully formation during runoff events. In combination these changes change perennial creeks into intermittent or ephemeral creeks. The desirable perennial sedges, grasses, and shrubs have been replaced by annual grasses and forbs, less desirable grasses and sedges, and sagebrush and junipers.

These changes did not happen recently. Probably most of the creek and meadow riparian areas had been degraded by the first decade of the twentieth century as result of the thousands of cattle and tens of thousands of sheep grazed in this area beginning in the late 1800s. The entire area was overgrazed. As a result there are no known riparian relict areas on the Surprise Resource Area. We cannot point to some area as an example of what the meadows and creeks should look like. We must extrapolate from other areas with similar soils, climate, and hydrology.

The BLM's "Riparian-Wetland Initiative for the 1990's" directed that 75% of BLM riparian areas be in "properly functioning condition" by 1997. This standard is not currently being met in these four HMAs. Additional measures are required for riparian area improvement.

#### WILDLIFE

The four HMAs provide habitat for the large variety of wildlife typically found in the region. The most common species are pronghorn antelope, sage grouse, black-tailed jackrabbits, Brewer's sparrows, deer mice, coyotes, raptors, and bobcats. There are mule deer in areas with big sagebrush and other taller shrubs which provide cover.

During the summer of 1992 competition for water between antelope and wild horses was observed at several different locations. Wild horses would be at a water hole. Antelope would stand around until the horses left. When antelope approached too closely, one or two mares would move towards the antelope, which would move away from the water hole.

Riparian areas are also important, because of their wildlife habitat value. Over half of the wildlife species in this area are dependant upon riparian communities for habitat during some portion of the year. Many of the less common species, including voles, killdeer, amphibians, and song birds would not occur in the area without riparian habitats. Sage grouse are dependent upon the meadows at springs for brood rearing habitat. Most wildlife species depend on the riparian areas as a source of drinking water. It is likely that where there were willow and other riparian shrub communities, there were birds, amphibians, and reptiles which no longer use this area.

The main affect of the proposed action, or any of the alternatives, on wildlife values will be through impacts on riparian areas.

#### THREATENED AND ENDANGERED SPECIES

No federally listed plants or animals are known to occur within the four HMAs.

#### WILD HORSES

Generally these four herds appeared in good health and condition before the winter of 1992-93. Helicopter observations of the four HMAs on February 10, 1993, found the horses to be active and still healthy looking. The snow ranged from two to three feet deep. It had several inches of icy crust over softer, crystally snow. Fewer horses were seen than in the fall '92 counts. About 225 horses were counted on the four HMAs during the Fall of '92a Only 20 horses were found in the same areas in February, 1993. (The winter flight was not as comprehensive as the fall counts.) Some recognizable bands that have been associated with certain areas could not be found in those areas, nor on "traditional" winter ranges. This shows that in a winter with heavy, persistent snow there is very little winter range on these four HMAs. By mid-March around 45 wild horses had returned to the arear of the Bitner and Nut Mountain boundary. They were active, but bony. On May 13, 1993, there was a lot of horse manure in High Rock Canyon. Perhaps many of the horses form these four HMAs wintered in High Rock. One of the important gaps in ... our knowledge is where these horses go during deep snow winters." In recent years it has not been a factor. If winters return to a more "normal" regime, the amount of winter range may be an important limiting factor for these HMAsr<sup>o</sup>

Conformance with the HMAPs, specifically keeping wild horse numbers within the carrying capacity of the range in combination with the other uses of the range, has resulted in thriving wild horse herds. This was reflected by the absence of death loss during the winter of 1992-93. Also the average reproductive rate for the herds on the Surprise Resource Area is 20% per year. \*

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#### Wild Horse Diets

A study of herbivore diets on the Surprise Resource Area using fecal analysis found that through the year wild horse diets contained 89.76% grass and grass-like plants. Spring diets were the most varied. Several early spring samples contained less than 50% grass and up to 60% forbs and shrubs. Winter samples were mostly grasses and grass-like species. Some samples contained 100% grass. Fifty six samples were collected from four different habitat types, juniper/shrub, sagebrush/mixed shrub, mountain shrub, and wet meadow/juniper habitat types.

Two important conclusions were drawn from this study: Wild horse diets concentrated on riparian area species. Wild horse diets had very little overlap with antelope or mule deer.\*

Of the 56 samples 42 contained riparian species, such as sedges, rushes, bulrushes, and hairgrass. When this is compared to the very small amount of riparian vegetation present and the amount that a horse eats plus their year long presence, the severe impact of wild horses on riparian areas becomes apparent.

The other conclusion from this study was that wild horse diets have very little overlap with antelope or deer. The time of greatest overlap was during the spring, when there was an abundance of forage, and all herbivores appeared to be selecting the greenest forage available. During the rest of the year there was very little dietary overlap. Three of the 56 wild horse samples contained small amounts of bitterbrush. The results indicated that there was little or no competition for forage between wild horses and antelope or deer. Wild horse and cattle had very similar diets. Both depended on grasses.

#### Wild Horse Riparian Forage Demand

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How much riparian forage can the wild horses eat and how much is being produced on the four HMAs? In appendix 3 these values were calculated. In any such determination there are many generalizations. A summary of riparian forage production and wild horse demand for each HMA is shown in table 2.

	BITNER HMA	HIGH ROCK HMA East of Canyon Home Range	NUT MOUNTAIN HMA	WALL CANYON HMA	
1992 Counts	40 horses	55 horses	52 horses	78 horses	
Summer Riparian Forage Demand	78,560 pounds	108,020 pounds	1 <b>92, 128 poundą</b>	153,192 pounds	
Recommended Minimum Number	15 horses	30 horses	30 horses	15 horses	
Summer Riparian Forage Demand	29,460 pounds	58,920 pounds	58,920 pounds	29,460 pounds	
Recommended Maximum Number	25 horses	40 horses	55 horses	25 horses	
Summer Riparian Forage Demand	49,100 pounds	78,560 pounds	108,020 pounds	49,100 pounds	
Total Riparian Forage <sup>*</sup> Production	2,380 pounds - 354,380 pounds	311,400 pounds	17,290 pounds	23,800 pounds	

Table 2. Wild Horse Riparian Species Summer Forage Demand and Current Riparian Species Forage Production.

Table 2 clearly illustrates two points. On the Nut Mountain and Wall Canyon HMAs wild horses, at any likely population level, could eat the total annual production of riparian forage each summer. The Bitner HMA has several dry lakes, in some years, like 1992, they did not produce any vegetation. In other years, maybe 1993, they do not produce much vegetation, because they are flooded most of the growing season. They have the potential to be very productive. In years when the lake beds are productive, they can provide forage for both horses and livestock. Unfortunately productivity is extremely variable.

This table also shows that potential production from riparian habitats is great. The High Rock HMA and the Wall Canyon HMA both have large canyon areas. In Wall Canyon most of those areas are producing upland vegetation. In High Rock many of those areas are abundantly producing riparian vegetation. As a result High Rock is producing 13 times more riparian vegetation than Wall Canyon is producing. A similar comparison cannot be made for the Bitner and Nut Mountain HMAs, because Bitner has no canyons, and Nut Mountain only has Hanging Rock.

#### **Current Wild Horse Population Levels**

Comparison of the 1992 wild horse counts with population estimates found that estimated populations were less than the actual counts, 30% on Bitner and 50% on Wall Canyon. On Wall Canyon there were 19 horses in the fall, 1988 and 79 in October, 1992. This was an average annual increase of 43%. A wild horse recruitment rate much greater than 20% per year due to reproduction alone is improbable. There are two likely reasons for there being so many more horses than estimated. There was a lot of movement from the Winnemucca District onto the Surprise Resource Area. This has occasionally been observed. Another reason for higher counts has been the mild winters over the past several years and resultant decline in winter death loss. This had two affects. More foals survived, and then there were more mares to bare foals.

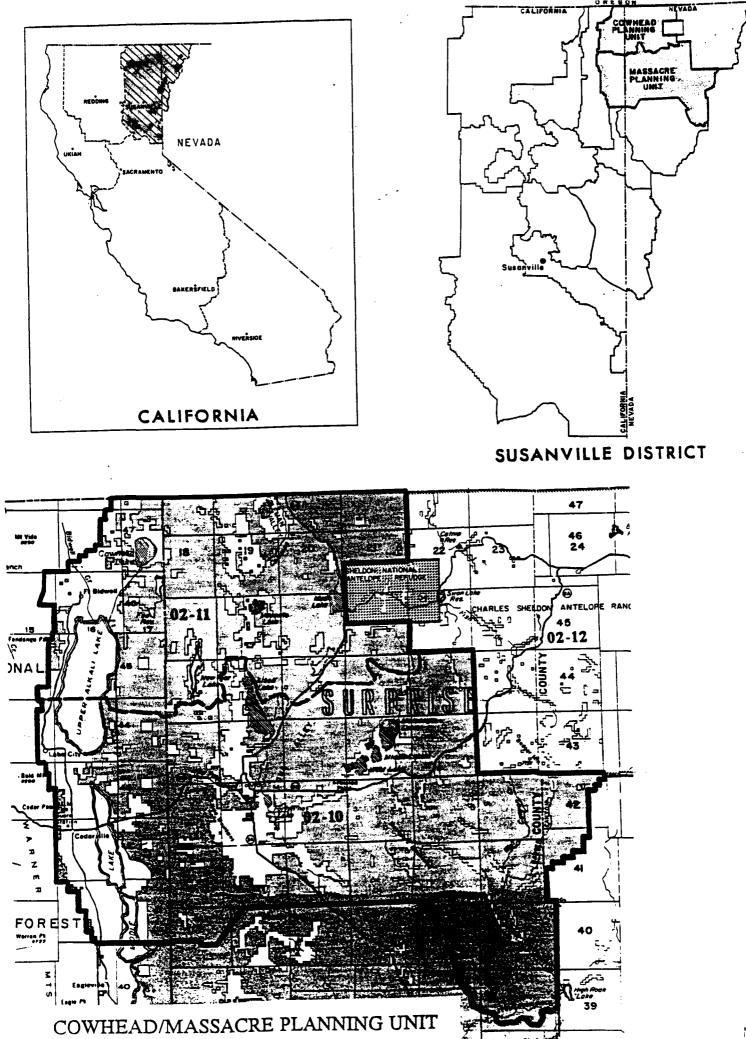
#### Bitner HMA (Herd Area #CA-267)

The four HMAs are located approximately 40 miles east and southeast of Cedarville, CA and form a contiguous block of HMAs (maps 1 - 2).

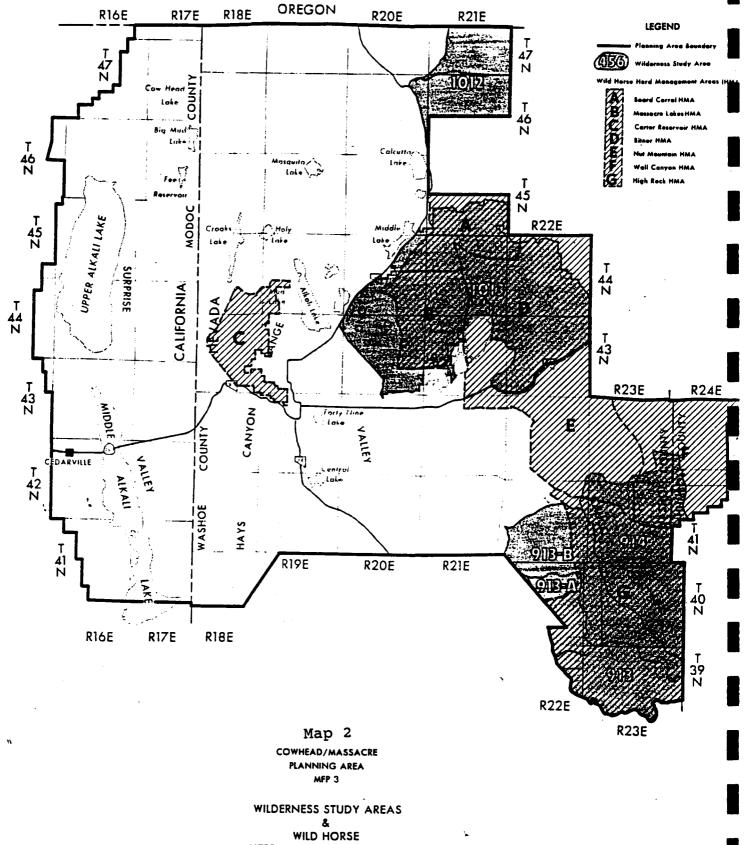
The Bitner HMA (map 3) contains 50,660 acres. The area was first separated in 1964 when a boundary fence was built between the Massacre Lakes and Nut Mountain Allotments. In 1982 the Bitner Allotment was created from the old Nut Mountain Allotment by fencing off the norther portion. This fence split the Bitner HMA. Five 50 foot long "wild horse" gates were placed in the new fence. These gates are opened each fall to allow access to the lower elevation winter ranges. Tracks and observations show that horses move back and forth through these gates. So far they have been successful. The MFP specified a population of 15 - 25 wild horses on themes. Bitner HMA. This allocation of forage is shown in Table 3. The Analysis determined that there was sufficient forage for 15 - 25 horses  $\rho_{UV}$  is  $\rho_{VA} = \rho_{UV}$ .

These horses descended from feral ranch stock. They are light horses. Horses from this HMA probably mix with wild horses on the Massacre Lakes and Nut Mountain HMAs and the Sheldon Antelope Range.

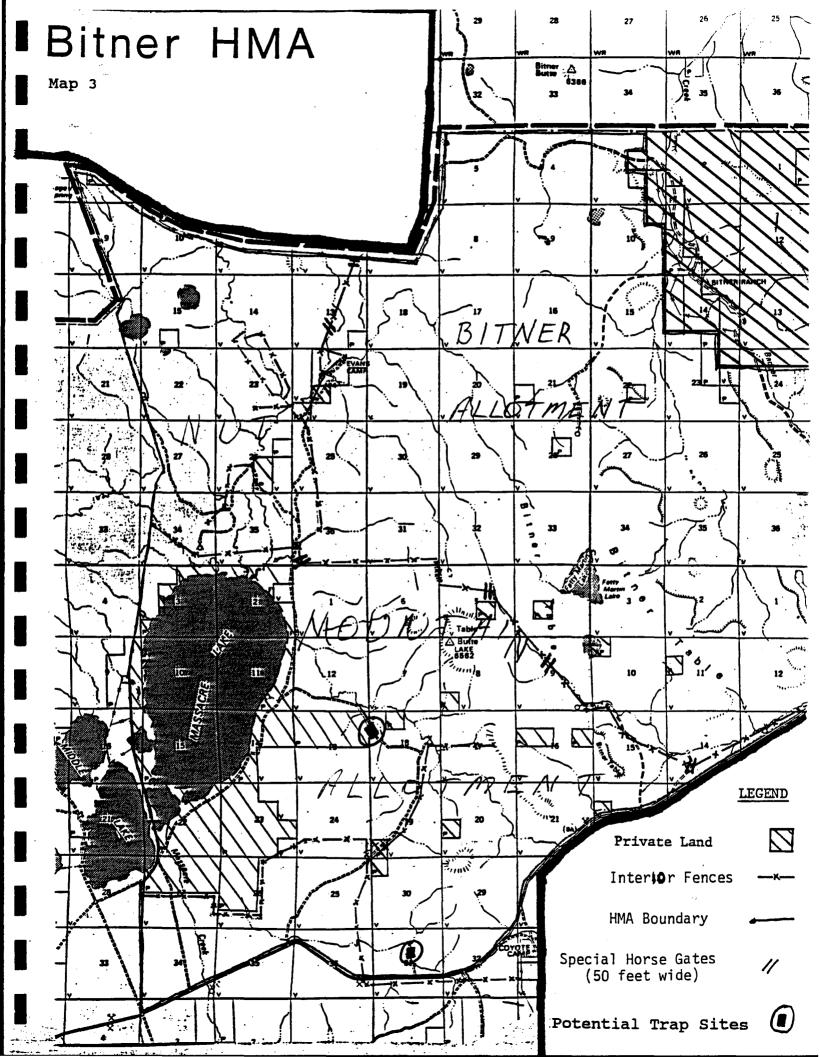
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Map



HERD MANAGEMENT AREAS



AREA	EXISTING FORAGE PRODUCTION (AUMs) <sup>1</sup>	WATERSHED, WILDLIFE COVER, SOIL STABILIZATION	WILDLIFE (AUMs) <sup>2</sup> Deer Antelope Bighorn Total	LIVESTOCK Class Scason AUMs	WILD HORSES Numbers <sup>3</sup> AUMs	GRAND TOTAL
2A	4,104	2,052		Cattle 4/15-10/15 1,446		
2B	3,430	1,715		Cattle 4/15-9/30 1,715	13 156	
Part of	Bitner HMA					
2C	4,138	2,069		Cattle 4/16-8/31 1,342	7 84	
2D	800	800				
2E	31,922	15,961		Sceeding: Cattle 4/16-5/15 Native: <sup>4</sup> Sheep 5/1-6/30 Sheep 10/8-11/30 20,347	80 960	
Part of	Bitner and all of	Nut Mtn and Wall	Canyon HMAs			
TOTAL	44,394	22,597	1,350 770 – 2,120	24,850	100 1,200	50,7674

Table 3. Forage Allocation for the Area Containing the Bitner, Nut Mountain, and Wall Canyon HMAs.

The area including the Bitner HMA was counted in February and August, 1973, 116 and 127 horses were counted. In August, 1984, 138 horses were removed from the area with 15 horses being returned to the Bitner HMA. In the fall of 1988, 33 horses were gathered from the Bitner HMA. This was a 21% increase per year from 1984 to 1988. Thirteen horses were returned to the HMA. This HMA was placed under structured management in 1988. It was estimated that there would be 27 horses by the fall of 1992, however, when the horse gates were opened in November, 1992, 40 horses were counted.

<sup>2</sup> Allocation is made on a unit wide basis.

1

3

4

Average numbers. Numbers may vary from a low of 70 to a maximum of 125.

Actual use data for the Massacre Mountain Allotment is incomplete. Therefore, total active use is being allocated until a production survey is completed in the Sub Unit 2 and 3 portion of the Massacre Mountain Allotment.

5

Estimate based on 1979 and 1980 BLM actual use and utilization data except for Massacre Mountain Allotment. Livestock forage production is 22,597 AUMs at 50% use levels in the livestock use areas, except Massacre Mountain Allotment (the entire 800 AUMs within Area 2D is allocated to non-consumptive uses). Total production is 44,394 AUMs.

#### High Rock HMA (#CA-264)

The High Rock HMA (map 4) contains 115,000 acres. The HMAP split the HMA into two home ranges. The East of Canyon Home Range lies north of Grassy Canyon and East of High Rock Canyon. The Little High Rock Home Range is the area between Grassy Canyon and Little High Rock Canyon. The home ranges tend to represent summer ranges. The horses from both home ranges share a common winter range. The East of Canyon Home Range is proposed for gathering at this time. The Little High Rock Home Range is not. There are no fences within this HMA. The MFP allocated forage for 70 - 100 wild horses in the High Rock HMA. This allocation of forage is shown in Table 4. The HMAP specified 30 - 40 horses on the East of Canyon Home Range and 40 - 60 on the Little High Rock Home Range.

Table 4.	Forage	Allocation	for the	Area	Containing	the	High	Rock	HMA.

EXISTING FORAGE PRODUCTION (AUMs) <sup>5</sup>	WATERSHED, WILDLIFE COVER, SOIL STABILIZATION	Deer	WILDLIF Antelop		(s) <sup>6</sup> rn Total	Class	LIVESTOCK Season	7 AUMs	WILD Numbers	HORSES AUMs	GRAND TOTAL
21,696 High Rock HMA	10,848	250	350	120	720	Sheep	4/01-4/30 12/01-12/15		100	1,200	13,268

Some mustang characteristics appear in this herd, dorsal stripe and barred or striped legs. Sorrel and palomino pintos are more typical colors on this HMA. These are light horses. Horses from this HMA mix with horses from the Wall Canyon, Nut Mountain, and Fox Hog HMAs. There is also movement into this HMA from the Winnemucca District.

In 1973, 136 horses were counted in this area (including today's Nut Mountain and Wall Canyon HMAs). In October, 1981, 25 horses were removed from the area east of High Rock Canyon. In 1985, 235 horses were counted in the East of High Rock Home Range. In July 1985, 102 horses were trapped in this Home Range and removed. At least 45 horses were known to have been left on the Home Range.

In the fall of 1988, 53 horses were gathered on the East of Canyon Home Range; 33 were returned to the range, and 20 were removed. Four horses were known to have been missed. Forty horses were counted after the gather. The East of Canyon Home Range was placed under structured management and the base herd established in 1988. 1988 was another drought year and some of the horses were in poor condition due to lack of drinking water. These poor condition horses were included among those removed. It was estimated that there would be 84 wild horses

- <sup>6</sup> Allocation is made on a unit wide basis.
- <sup>7</sup> Livestock use area is west of High Rock Canyon and north of Little High Rock Canyon.
- <sup>8</sup> Maximum numbers. Numbers can vary from 70 head to 100 head.

One week trail during a two week period.

9

<sup>&</sup>lt;sup>5</sup> Existing livestock forage production is 10,848 AUMs at 50 percent use level. Therefore, total production is 10,848 AUMs x 2 = 21,696 AUMs.

HIGH ROCK

HERD MANAGEMENT AREA

#### Legend:

Map 4

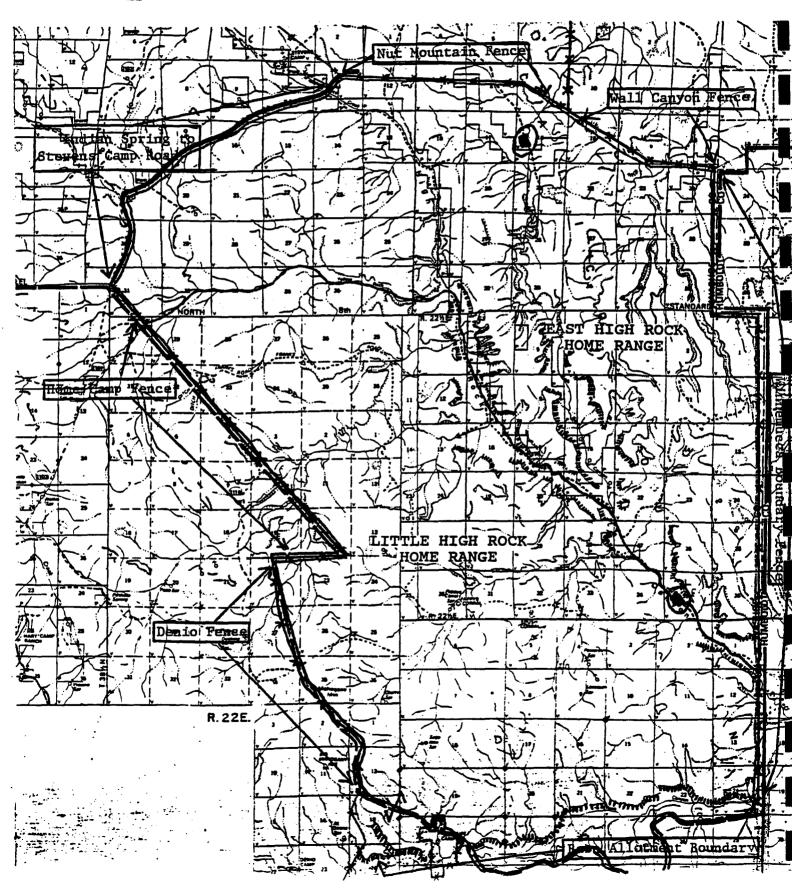


Prominent Rims & Canyon Faces Fences

HMA Boundry



Potential Trap Sites



in the East of Canyon Home Range in the fall of 1992. A flight over High Rock Canyon in the fall of 1992 found 55 horses in the canyons. A flight in February, 1993 found 20 horses at the two lowest springs in Pole Canyon at its junction with High Rock. These horses were active and looked in good condition. No horses were seen in the uplands and there were no tracks in the snow.

Wild horses were last gathered on the Little High Rock Home Range in November, 1990. Horses gathered showed albino traits, signs of distemper, and drought stress.

#### Nut Mountain HMA (#CA-266)

The Nut Mountain HMA (map 5) contains 40,680 acres. The Nut Mountain HMA lies between the Bitner, Wall Canyon, and High Rock HMAs. The MFP specified a population of 30 - 55 horses for this HMA. This allocation of forage is shown in Table 3. The Analysis determined that there was sufficient forage for 30 - 55 horses.

These horses descended from feral ranch stock. They are light horses. Blacks and bays are the most common colors. There are some piebald horses. There are several easily identifiable bands with black or palomino paint studs and subsequent off spring.

This herd was last gathered in 1988, 70 horses were gathered, 40 were removed and 30 returned to the range. This HMA was placed under structured management and the base herd was established at this gather. It was estimated that there would be 61 horses on the HMA by the fall of 1992. Counts during the summer and fall of 1992 found about 52 horses on the HMA.

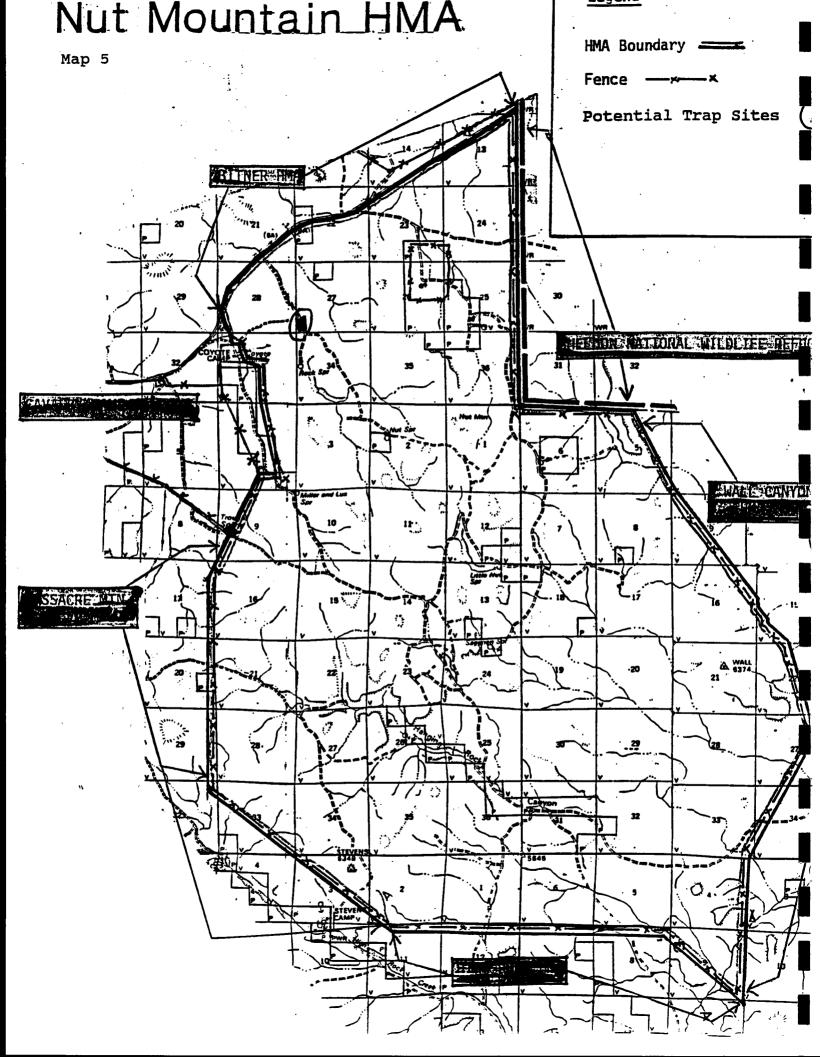
#### Wall Canyon HMA (#CA-265)

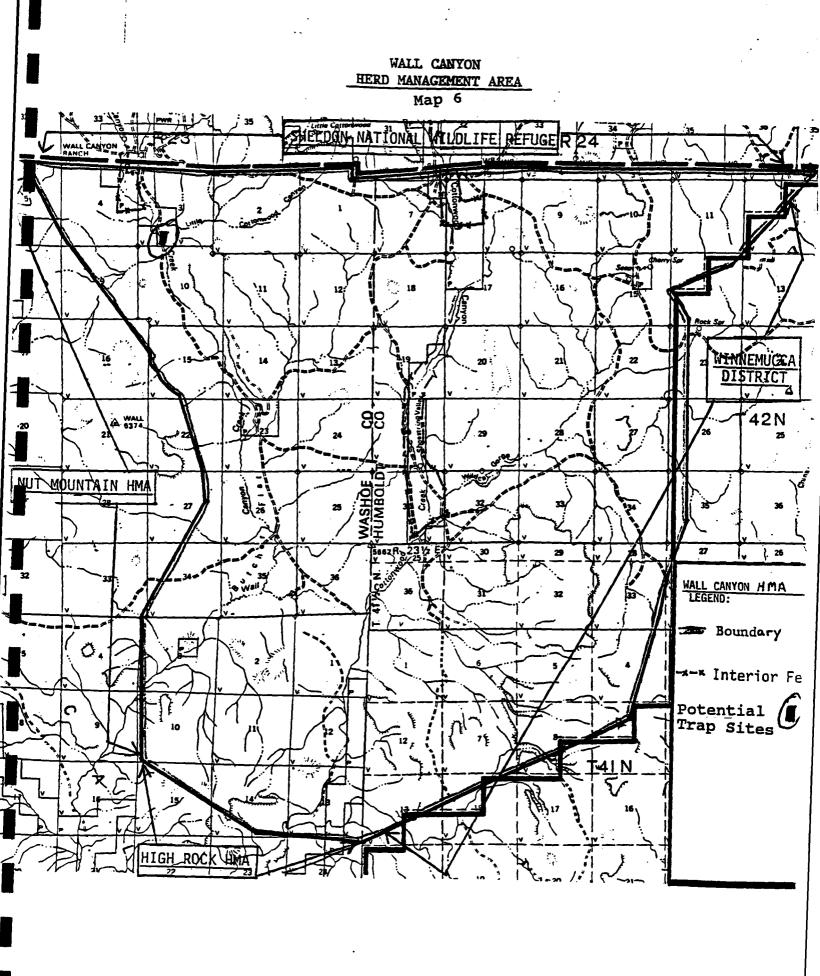
The Wall Canyon HMA (map 6) contains 49,277 acres. This HMA lies along the eastern boundary of the resource area. It is bordered on the north by the Sheldon Antelope Range and on the east by the Winnemucca district. Horses from this HMA mix with horses from Winnemucca, the Sheldon, and the High Rock and Nut Mountain HMAs. These horses are similar to the Nut Mountain HMA horses, with fewer paints. The MFP specified a population of 15 - 25 horses for this HMA.<sup>\*</sup> This forage allocation is shown in Table 3. 'The Analysisdetermined that there was sufficient forage for 15 \* 25 incress:

This HMA was also last gathered in 1988; when 142 horses were trapped, and 123 were removed leaving a population of 19 horses. This herd was placed under structured management and the base herd was established in 1988. It was estimated that there would be 40 horses on the whole HMA in the fall of 1992. A helicopter sount of the northern part of the HMA in October 1992, found 78 horses. Also in the fall of 1992, coincidental observations along the boundary between Wall Canyon and Winnemucca found many horses and severe utilization on the Winnemucca side and slight utilization on the Wall Canyon side. Undoubtedly there is movement of horses from winnemucca onto this HMA.

#### Monitoring Results and Recommended Management Levels

The current monitoring data (appendices 4 - 6) found that the current wild horse numbers were deleterious to the concept of "thriving natural ecological balance and multiple use relationships"... on the Bitner, Nut Mountain, and Wall Canyon HMAs. IM 90-30, defined "thriving natural, ecological balance" as "the condition of the public range that exists when resource objectives related to wild horses and burros in approved land use and/or activity plans have been achieved, "





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The MFP defined thriving natural ecological balance for the area of these three HMAs as occurring when ecological sites are in mid-successional vegetative condition. The MFP further defined grazing's place in the multiple use relationships as moderate utilization of grasses.

In 1992, wild horse utilization on key areas in the three HMAs exceeded utilization standards specified in the MFP. \*As a result of the drought and reduced cattle numbers, there were key areas on these three HMAs which were used by wild horses, but not by cattle. 1992 wild horse utilization was determined in these key areas.

#### **DEFINITIONS** \*

Slight Utilization occurs when less than 20% of the annual production of forage plants has been consumed.

<u>Light Utilization</u> occurs when 20% - 40% of the annual production of forage plants has been consumed.

Moderate Utilization occurs when 40% - 60% of the annual production of forage plants has been consumed.

<u>Heavy Utilization</u> occurs when 60% - 80% of the annual production of forage plants has been consumed.

<u>Severe Utilization</u> occurs when 80% - 100% of the annual production of forage plants has been consumed.

Riparian åreas were chosen as key areas, because they were targeted for improvement in the MFP, but have remained in poor condition, and 75% of riparian areas must be in properly functioning condition by 1997. Upland areas generally have an upward condition trend. A summary of the most recent trend monitoring data is contained in appendix 4. Utilization monitoring over the past several years has shown that the areas in poorest condition, riparian communities, have continued to receive unacceptably heavy utilization. Utilization monitoring for the allotments which contain the Bitner, Nut Mountain, and Wall Canyon HMAs is shown in appendix 5.

The trend data and subsequent utilization mapping, indicated that upland vegetation condition trend was, and remains, unchanged or upward. While riparian area condition was poor. Utilization has been heavy and severe in riparian areas since the last condition studies. This level of utilization would be expected to maintain poor condition. Actual Use Reports (appendix 6) for the period 1988-92 showed steady cattle use, with reductions during the past several years in response to the drought and changes in management.

Appropriate management levels based on the monitoring data were developed in appendix 1. The recommended wild horse management levels from appendix 1 and several other management levels are shown in Table 5.

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НМА	MFP MIN	MFP MAX	RECOMMENDED MIN	RECOMMENDED MAX	ANALYSIS MIN	ANALYSIS MAX	R
BITNER	15 horses	25 horses	15 horses	25 horses	16 horses	34 horses	d's green for we
NUT MOUNTAIN	30	55	30	55	25	52	word of er stur
WALL CANYON	15	25	15	25	28	58	Bac T W. No

Table 4. Wild Horse Management Levels for the Bitner, Nut Mountain, and Wall Canyon HMAs.

The management levels based on the 1992 monitoring data were very close to the management levels in the MFP for the Bitner and Nut Mountain HMAs. For Wall Canyon the management levels from the 1992 monitoring data were about twice the MFP's levels. It was decided that the management levels based on the 1992 monitoring data were similar enough with the MFP's management levels to support the MFP's management levels. The recommended appropriate management levels for all three HMAs were the same as in the MFP.

The conclusion drawn from the 1992 utilization pattern mapping and the observations made on the HMAs was, there was not additional forage to allocate to additional users. This was particularly the case in riparian areas. Also, although 1992 was a very poor production year, cattle numbers on these HMAs were from 56 - 24% of normal. In more normal years there will neither be this lack of production, nor the reduction in cattle. The other conclusion from the 1992 monitoring plus experience was at the recommended wild horse management levels and normal cattle numbers the users are generally in balance with the forage. There is not additional forage to allocate to additional users.

#### WILDERNESS

All four HMAs contain Wilderness Study Areas (WSA). Parts of the Nut Mountain and Wall Canyon HMAs and the East of Canyon Home Range are within the East Fork High Rock Canyon WSA (#914). Much of the Bitner HMA lies within the Massacre Rim WSA (#1013). All the potential trap sites in the East of Canyon Home Range are in WSA. None of the potential traps sites on the Bitner, Nut Mountain, or Wall Canyon HMAs are in WSA.

The Interim Management Plan (IMP) permits installation of temporary facilities in WSAs for the purpose of gathering wild horses, as long as they satisfy the nonimpairment criteria.

#### CULTURAL RESOURCES

Several and continuing inventories and excavations have found that High Rock Canyon is rich in historical and archeological sites. Massacre Bench has many, high quality archeological sites. Many of these archeological and historical sites are at springs. When horses or cattle congregate, trample, and disturb the soil surface at springs, they destroy the context of artifacts and can damage them.

The Cowhead/Massacre EIS determined that cultural resources in High Rock area and on the Massacre Bench required special management actions. Decisions HR009 and HR010 stated that if wild horse impacts were shown, through monitoring, to be causing significant impacts on cultural resources, the wild horses would be adjusted. This would be accomplished by fencing and/or herd reduction. Decision MN009 stated that factors which may destroy the high archeological values in Area 2D were to be excluded. The 1,600 acre Massacre Bench Cultural Resource Management Area exclosure in the Bitner HMA was one result. The second MFP goal for the High Rock area was, "preserve 1,953 archeological sites, 12 historical sites, and 16 miles of the Lassen/Applegate Trail."

Throughout the MFP and technical review team processes grazing use in the canyons was an intensely debated issue. At one point it was decided that there would be no cattle or horses in the canyons. Eventually a compromise was reached. Cultural resources, wildlife habitat, and a primitive setting were affirmed as the primary values. In order to protect the primary resource values, there would only be a small wild horse herd, 30 - 40 head, and no cattle grazing in High Rock and the uplands to the east. Some archeological site survey forms from the High Rock area are in appendix 6. The locations and identifiers have been removed, because this is proprietary information. These examples correspond with horse populations of 45 to 250 in the East of Canyon Home Range (see page 5, High Rock HMA discussion). When horse numbers were higher than the levels set in the HMAP, damage to archeological sites was noted.

All the proposed trap sites have received cultural surveys and been approved for use.

#### LIVESTOCK

There are four grazing allotments in the proposed gather area. The Bitner HMA contains the Bitner Allotment plus the part of the Nut Mountain Allotment north of highway 8A. The High Rock HMA lies within the Massacre Mountain Allotment. The Nut Mountain HMA contains the part of the Nut Mountain Allotment south of highway 8A. The Wall Canyon HMA contains the entire Wall Canyon (east) Allotment.

Beginning in 1934, with the passage of the Taylor Grazing Act and the end of nomadic sheep bands, and continuing through several livestock adjudications and the Grazing Environmental Impact Statement and resulting MFP and AMPs, cattle numbers in this area have been reduced to around carrying capacity. All the permittees currently on these allotments have taken stocking rate cuts for the purpose of making cattle numbers compatible with the other plant community values, specifically soil protection and fertility, functioning watersheds, healthy productive plant communities, and secondary values of wildlife habitat, scenery, wild horse habitat, and livestock forage production.

For the past several years cattle numbers have been reduced on all these allotments. In 1992 Actual Use was 24% of active preference on the Bitner Allotment, 56% on the Nut Mountain Allotment, and 47% on the Wall Canyon (east) Allotment. Also High Rock Canyon and the area to the east in the East of Canyon Home Range has been closed to domestic livestock use since 1984.

#### **DEFINITION**

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<u>Active Preference</u> is the amount of livestock use permitted based on the amount of forage available for livestock grazing established in the land use plan, MFP.

The Bitner Allotment is part of a Coordinated Resource Management Plan, which includes this allotment, the Bitner Ranch, and the South Catnip Allotment on the Sheldon Antelope Range. The planned season of use is April 16 to July 7 each year. The planned use has been greatly reduced in the past three years in response to the drought and changes in the permittees operation.

The Nut Mountain Allotment has three pastures divided into five use areas. A deferred-rest rotation grazing system is used on the allotment. The two early use pastures are rested every other year. Cattle are moved south to north and north to south through the allotment in alternating years. The grazing season is April 16 to October 15. The grazing pattern has been altered, and the number of cattle reduced for the past several years due to the drought.

The Wall Canyon (east) Allotment has one pasture. It was used as part of a grazing system which included the Badger Mountain Allotment on the Sheldon Antelope Range. The season of use is April 16 to September 30 with approximately two month use each year. The use period rotated between spring, summer, and fall. The grazing pattern has been altered, and the number of cattle reduced for the past

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several years due to the drought. Actual use has been about 51% of active preference over the past three years. Work is in progress to include the Soldier Meadows Allotment on the Winnemucca District in this grazing system.

#### IMPACTS OF THE ALTERNATIVES (per HMA)

Three issues were identified for assessing the alternatives, heavy and severe utilization of riparian areas, protection of specific resources in the High Rock Canyon area, and affects on wild horses. The impacts of the proposed action and alternative 2 will be assessed. The other resource values discussed are secondary results of riparian area condition. For example the main wildlife impacts result from the availability of properly functioning riparian areas to provide habitat. An important wilderness impact is the degradation of the feeling of a pristine setting due to degradation of riparian areas. The analysis of alternatives will focus on these three issues. Also, for this analysis, the Bitner, Nut Mountain, and Wall Canyon HMAs will be discussed separately from the High Rock HMA, because in the three HMAs, the main issue is habitat damage, while in High Rock the main issue is the selection of other resource values over wild horses and maintenance of wild horses within the limits specified.

#### BITNER, NUT MOUNTAIN, AND WALL CANYON HMAS

#### **Riparian Issues**

#### Proposed Action

Implementing the proposed action will help address the riparian community concerns and the MFP objectives in riparian areas. Reducing wild horse numbers to levels which are within the carrying capacity of the plant communities which they are most likely to damage, riparian areas, in conjunction with the livestock grazing management which exists on the allotments in these HMAs, will result in acceptable utilization levels on the riparian areas. Due to the presence of water in riparian areas the vegetative response to sound grazing management and proper utilization is faster and more dramatic than on surrounding upland communities.

In spring meadows the first steps to recovery will be the presence of litter in the spring and an increase in more desirable sedges such as Nebraska sedge. It will take several years of weathering, after implementation of proper use, to reduce the hummocks.

Along creeks the first step to recovery will be the presence of residual vegetation to catch silt during runoff events. Proper utilization of the creek side corridor will allow the more desirable sedges and grasses to increase. Gradually the banks will build up producing a narrower and deeper creek. Improvement in the creek will raise the water table adjacent to the creek. This will provide habitat for riparian plants such as willows. The cumulative affects of these changes in the creek will be a longer period of flow each summer. This happens because there is less evaporation from the narrower, deeper, shaded channel, and the properly functioning riparian zone captures more water during runoff, so it can release water during a longer period each summer.

These changes in vegetation and its affects on hydrologic functions are the first steps in changing a non-functioning riparian area to a properly functioning riparian area.

#### Alternative 2

Wild horse use on riparian areas will continue to increase as the populations continue to grow. Riparian communities will continue to be dominated by upland plants, in particular big sagebrush. Continued trampling of spring meadows will spread out some springs so much that they no longer produce water. Creeks will continue to down cut making runoff faster and the period of summer stream flow shorter. The amount and quality of vegetation produced in the riparian corridors will remain low compared to their potential. The riparian areas which are not now properly functioning will continue to get worse. Riparian areas which are functioning, but at risk, will become non-functioning.

#### Wild Horses

There is a finite amount of range available. Since wild horses are not native to North America, they have no natural predators to keep populations under control. Since the passage of the Wild Horse and Burro Act, they cannot be captured by the general public. Wild horses can either be allowed to increase, over populate their range, and, as in the winter of 1992-93, starve to death during a snowy winter. Or they can be gathered, in this case by the BLM, and some of them removed from the range.

#### Proposed Action

The main benefit to wild horses of being gathered is reduced competition between bands for water, forage, space, and seasonal ranges. Implementing the proposed action will result in the removal of approximately 180 wild horses from these three HMAs. The selection of excess horses for, removal and placement in the Susanville adoption program will be carried out following the procedures and policies in the Susanville Wild Horse Management Plan. The goals of this plan are to make wild horse gathering as safe as possible for the horses, assure that the excess horses are adopted into adequate, healthy settings, and the horses that remain on the range are healthy and vigorous and within the carrying capacity of their habitat.

Gathering and structuring a herd maintains herd integrity. Only younger horses are removed from the range, so band social structures and use areas are left intact. Younger horses are also more adoptable. Gathering provides the opportunity to see many of the horses in the herd. It is the only time that accurate age structures, sex ratios, and reproductive rates of the herds are determined. This information is necessary for BLM to properly manage the horses.

The BLM is required to manage public lands in a multiple use context, including wild horses. These herds have not been gathered since 1988. In the four years from fall, 1988 to fall, 1992, we lost track of how many horses were on these HMAs, and what their seasonal ranges were. So far in spring, 1993 we have had some reports and observations that some bands have returned to their traditional summer use areas, but some have not. Only one dead horse has been reported on these HMAs and two on an adjacent HMA. Where are the other horses? Did last winter make horses abandon some areas? Will they move back, or will these areas be repopulated by neighboring bands? There are too many questions to assume that BLM is providing good wild horse management. The HMAP files show that when BLM had ongoing wild horse management activities most of these questions were answered. As the program has lagged, so has knowledge about the herd's.

Gathering is inherently risky. Running wild horses into a trap then loading them onto a truck, is a source of risk and stress for the animals. Horses have been injured and killed during gathering, but it is not common. Foals can be separated from mares. Band social structure can be disturbed by mixing with other bands or leaving a band with too few individuals.

#### Alternative 2

Implementing alternative 2 will mean that horses will not be gathered from these HMAs at this time. The horses will not face any of the stress or potential dangers associated with gathering. There will be no disruption of band structure or separation of foals from mares due to gathering.

Implementing alternative 2 will mean increasing intraspecific competition among wild horses. The 1992 counts found that there were more wild horses on the HMAs than could be accounted for through reproduction. 1992 utilization data showed that wild horses were in excess of carrying capacity of their habitat based on how they use the areas they occupy.

Implementing alternative 2 moves the horse herds closer to the possibility of die offs during heavy winters. It is believed that the history of regular gathering and removal of wild horses and keeping their populations within the carrying capacity of the range accounts for the absence of winter kill this year on these four HMAs specifically and the Surprise Resource Area generally.

Implementing alternative 2 will mean that the current estimated numbers, age structure, sex ratio will continue to be used in managing these herds. Management based on estimates will continue. The much needed infusion of information will not happen.

Table 6 shows projected wild horse populations on the HMAs for the "Proposed Action" and "Alternative 2."

		1993		1994		1995		1996		1997	
НМА	1992 COUNTS	PROP	ALT 2	PROP	ALT 2						
BITNER	40 horses	15	48	19	58	23	69	26	83	31	100
HIGH ROCK East of Canyon Home Range	55	30	66	38	79	45	95	53	114	62	137
NUT MOUNTAIN	52	30	62	38	74	45	89	53	107	62	129
WALL CANYON	78	15	94	19	113	23	135	26	162	31	195

Table 6. Wild Horse Population Projections: Proposed Action and Alternative 2.

#### Wilderness

Both the Proposed Action and Alternative 2 comply with the IMP's nonimpairment criteria for WSAs (see appendix 7).

When a final determination is made on status of the WSAs, it may prohibit gathering using helicopters, it may require the complete removal of wild horses as an incompatible use, or wild horse gathering may be a legislated or grand fathered activity. The WSAs also may not be designate wilderness. There is no clear indication at this time.

#### Proposed Action

None of the potential trap sites for these three HMAs are in WSAs.

A helicopter will be used over the Massacre Bench WSA to gather horses on the Bitner HMA. This will disturb the feeling of solitude more present at other times. This activity will take place during two or three days, and will not be repeated for about four years. There will be no residual impacts following the gather. No reclamation will be required. Wild horse gathering using helicopters is a permitted activity under the WSA Interim Management Plan. This activity will not affect the WSA's potential for being designated a wilderness area.

#### Alternative 2

Wild horses will not be gathered at this time. Impacts to solitude caused by helicopter operations will not occur.

#### **Cultural Resources**

The alternatives are not expected to have significantly different impacts on cultural resources within the three HMAs. The National Register quality area in the Bitner HMA has been fenced off.

#### HIGH ROCK HMA, EAST OF CANYON HOME RANGE

#### **Riparian Issues**

#### Proposed Action

In High Rock Canyon riparian areas have progressed towards the site potential goal as a result of the livestock grazing closure implemented in 1984 and regular wild horse removals begun in 1985. In the past few years, as wild horse populations have increased, year long use of springs in the canyons has resumed. Implementing the proposed action, which was originally designed to prevent year round wild horse use in High Rock and tributary canyons, will allow plant communities in the canyons, including riparian communities, to continue improving.

#### Alternative 2

Grazing pressure will continue to increase in the canyons. Use at springs in the canyons will increase and more springs will be impacted as horse numbers increase. The riparian plant communities, along with adjacent areas, will not be able to reach site potential. Areas that had begun to recover from heavy cattle grazing will degrade due to year long wild horse use.

#### **Cultural Resources**

#### Proposed Action

The springs that wild horses have been using in Pole and High Rock Canyons are identified archeological sites. Continued horse use of these areas disturbs the sites destroying the context of the artifacts and in some cases damaging the artifacts. Implementation of the proposed action will end, or reduce to an acceptable level, wild horse use of these springs. Based on past experience populations of 30 - 40 wild horses in the East of Canyon Home Range results in little use of the canyons which tends to be limited to winter when the sites are frozen and may be snow covered.

#### Alternative 2

Implementation of this alternative will increase the amount of wild horse use of cultural sites at springs. As the number of horses, and amount of use, increases, the amount of damage to the sites will increase.

#### Wild Horses



#### Proposed Action

In the High Rock Canyon area the MFP stated that any additional forage would be allocated to wildlife and non-consumptive uses. The purpose for this decision was to protect the primary resource values from damage by wild horse use. Allowing wild horse numbers to be above the MFP management levels is de facto allocation of additional forage to wild horses, a consumptive use. The proposed action would comply with the MFP by reducing wild horses on the East of Canyon Home Range, so that their numbers were in compliance with the MFP.

#### Alternative 2

Implementation of this alternative would not be in compliance with the MFP's direction for wild horse management in the High Rock Area.

#### Wilderness

Both the Proposed Action and Alternative 2 comply with the IMP's nonimpairment criteria for WSAs (see appendix 7).

#### Proposed Action

There is a potential trap site in the East Fork of High Rock WSA. There is a road to the site. The horse trailer and trucks will use that road. There will be a turn around at the trap site. This will be the only off road travel. The trap is completely portable. No sign of its presence remains following the gather. In conjunction with removing the trap at the end of the gather, the site is completely reclaimed. No residual impacts remain from the gathering activity.

A helicopter will be used to drive wild horses through the East Fork of High Rock WSA to the trap site. This activity will take place during two to four days, and will not be repeated for approximately four years. During the gather, the helicopter and horses will disturb the sense of solitude that is normally present. When the gather is completed, there will be no residual affects, and no reclamation will be required.

The Wilderness Study Area, Interim Management Plan permits wild horse gathering within WSAs. This activity will not affect the WSA's potential for being designated a wilderness area.

#### Alternative 2

Wild horses will not be gathered, so there will be no helicopter or other gathering activity intrusions at this time.

#### DESCRIPTION OF MITIGATION MEASURES AND RESIDUAL IMPACTS

Implementation of the proposed action following the Susanville District wild horse management policies will result in safe and humane treatment of the horses. No residual impacts are anticipated and no mitigation measures will be required.

#### PERSONS/AGENCIES CONSULTED:

Surprise Resource Area staff Richard Westman; SRA Supervisory Range Conservationist Rob Jeffers; Susanville District Wild Horse and Burro Specialist Vern Shulze; National Wild Horse and Burro Program Specialist George Barrier; Modoc/Washoe ESP Wild Horse and Burro Representative and American Mustang and Burro Association, Inc. Catherine Barcomb; Nevada Commission for the Preservation of Wild Horses Dawn Lappin; Wild Horse Organized Assistance Modoc/Washoe Experimental Stewarship; Executive Committee Permittees within the HMAs; Don Coops, John Laxague, R.C. Roberts, Jack Wilkinson Wild Horse mailing list WSA mailing list

PREPARER: Bill Dragt; SRA Range Conservationist

DATE: June 21, 1993

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## **APPENDICES**





# APPENDIX 1

## HELICOPTER GATHERING PLAN FOR WILD HORSES IN THE BITNER, HIGH ROCK, NUT MOUNTAIN, AND WALL CANYON HERD MANAGEMENT AREAS



#### HELICOPTER GATHERING PLAN FOR WILD HORSES IN THE BITNER, HIGH ROCK, NUT MOUNTAIN, AND WALL CANYON HERD MANAGEMENT AREAS

#### INTRODUCTION

The purpose of this removal plan is to outline the methods and procedures to be used in removing approximately 180 wild horses from the Bitner, Wall Canyon, Nut Mountain and High Rock Herd Management Areas. The proposed action would take the wild horse population to the lower limit of the stabilished population range for each area. The populations of wild horses would then be allowed to increase for four years, at which time, it is projected that the populations would be at the upper end if the established population range. At that time, the need for another removal would be determined based upon the actual wild horse populations present.

The proposed removals would begin sometime after September 1, 1993 and would take two to three weeks to complete. If funding does not allow completion of the removal during September, 1993, the removal will take place starting in October, 1993 (Fiscal Year 1994).

#### **GENERAL AREA DESCRIPTION - BACKGROUND DATA**

The HMAs are located approximately 40 miles east of Cedarville, California. The HMAs are in northern Washoe and Humboldt Counties, Nevada. See Map 1 for general locations.

The acreage and land status for each HMA is as follows:

HMA Name	Acres <u>Private</u>	Acres <u>Public</u>	Total <u>Acres</u>
Bitner	7,110	43,550	50,660
Nut Mountain	1,840	38,840	40,680
Wall Canyon	1,400	47,877	49,277
High Rock	653	114,447	115,100

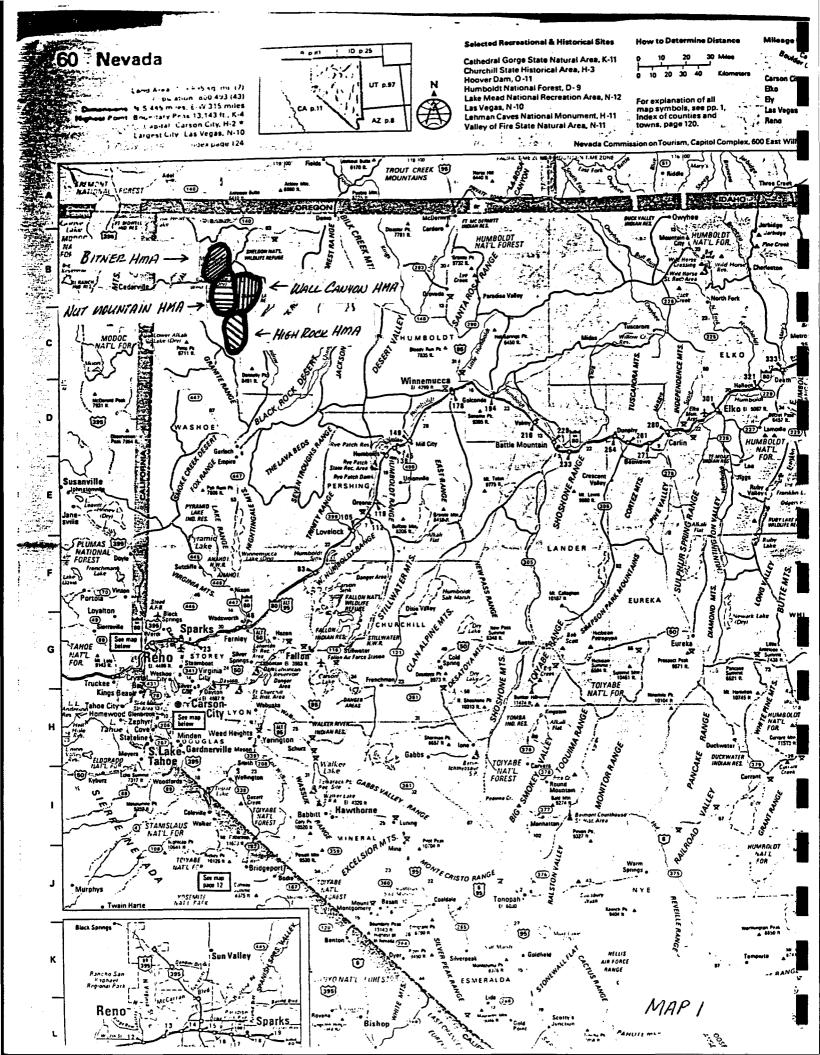
The Herd Management Areas are located in the Cowhead Massacre Planning Unit of Surprise Resource Area. See Map 2- Planning Unit Map. The Environmental Impact Statement for the Unit was completed in 1980.

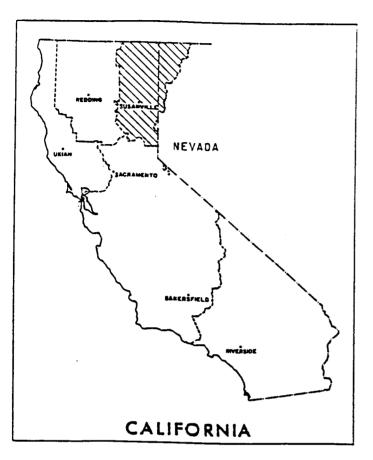
Elevations range from 5,000 feet to 6,900 feet within the areas.

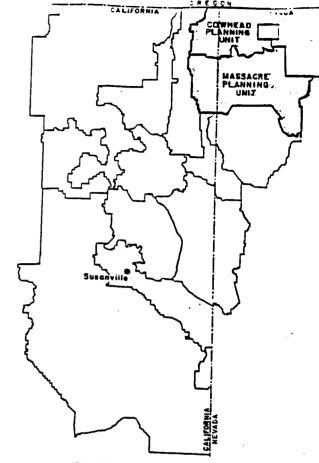
Vegetation is typical of the western Great Basin Ecosystem. Various species of sagebrush dominate the aspect. The dominant perennial grasses are Sandberg bluegrass, bottlebrush squirreltail, Thurber's needlegrass, and Idaho fescue.

Appropriate management levels for wild horses in the Bitner, Wall Canyon and Nut Mountain HMAs came from an analysis of the current monitoring data (appendix 2). In these three HMAs the goal is to have wild horses be part of a thriving natural ecological balance among the multiple uses.

The AML for the High Rock HMA, including the East of Canyon Home Range, was also established to maintain a thriving natural ecological balance. The resource management goals in the High Rock area, as defined in the land use plan, were to maintain the canyons in a primitive state and preserve archeological and historical sites. Grazing was determined to be incompatible with these goals. Therefore, forage was allocated for a low number of wild horses and livestock grazing was eliminated.







### SUSANVILLE DISTRICT

MAP 2

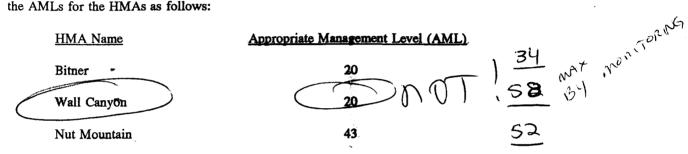
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Proposed gathering and removal for FY 1993 will be conducted in the "East of Canyon" Home Range of the High Rock HMA (CA-264), the Bitner HMA (CA-267), the Wall Canyon HMA (CA-265), and the Nut Mountain HMA (CA-266). See Maps 3, 4, 5 and 6 for specific locations.

#### JUSTIFICATION

The Wild Free-Roaming Horse and Burro Act of 1971 (Public Law 92-195) as amended, Section 3(b)(2) states "...if an overpopulation exists on a given area of public lands and that action is necessary to remove excess animals, he shall immediately remove excess animals from the range so as to achieve appropriate management levels. Such action shall be taken, in the following order and priority until all excess animals have been removed so as to restore a thriving natural ecological balance to the range, and protect the range from the deterioration associated with the overpopulation."

The 1993 Analysis for the Bitner, Nut Mountain, and Wall Canyon HMAs conducted in March, 1993, established the AMLs for the HMAs as follows:



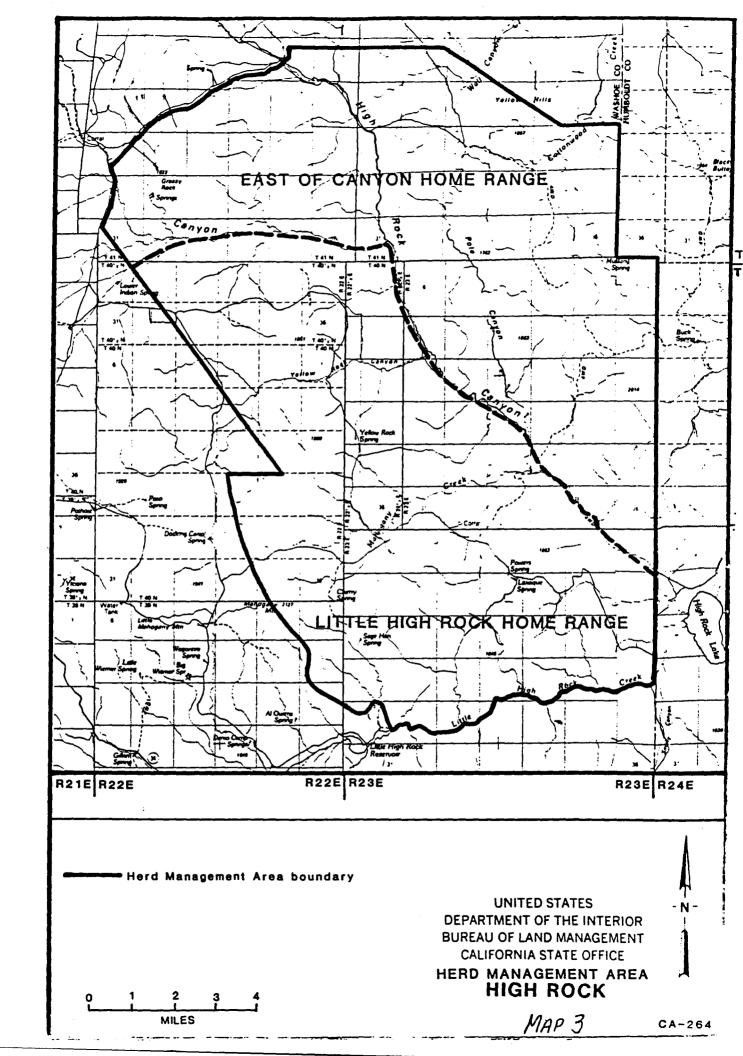
The AML is the median number between the maximum and minimum management levels necessary to achieve and maintain a thriving natural ecological balance in each area.

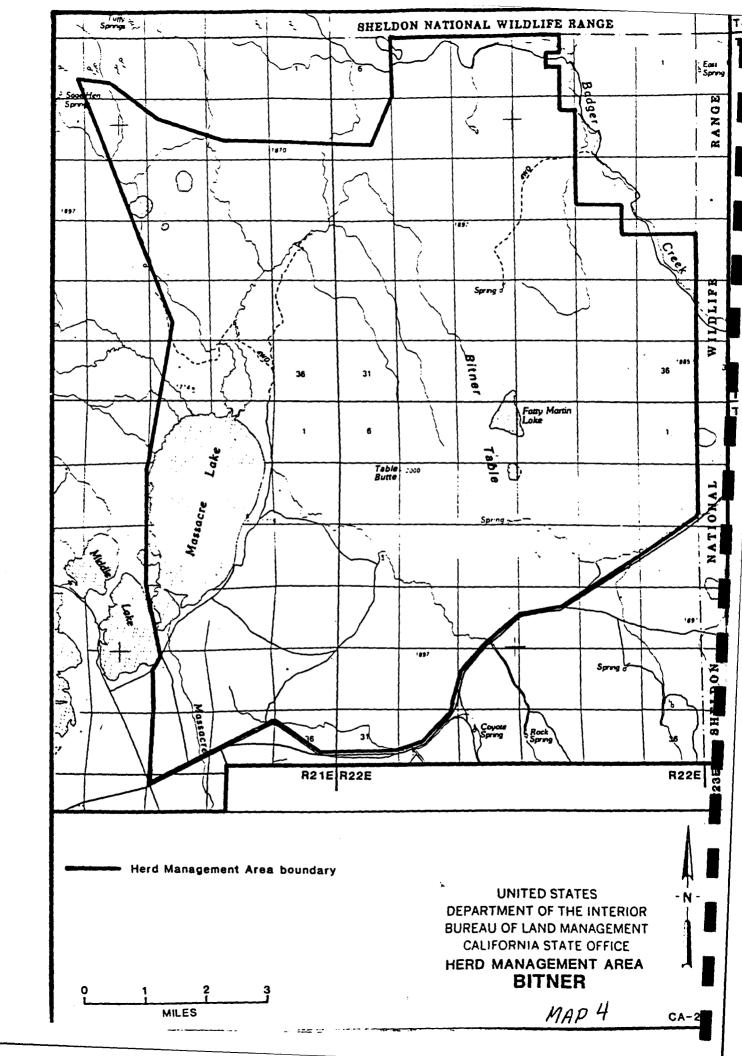
For the East of Canyon Home Range of the High Rock HMA, the AML has been established at 35. Maintenance of wild horse numbers at this level since 1985 has protected cultural and historic sites, permitted the plant communities to move toward site potential, and preserved the primitive nature of the canyons. When wild horse numbers increase above the upper range of the established population level, the resource management goals are not met.

Based on the carrying capacity for horses, management levels have been established as follows (calculations in appendix 2):

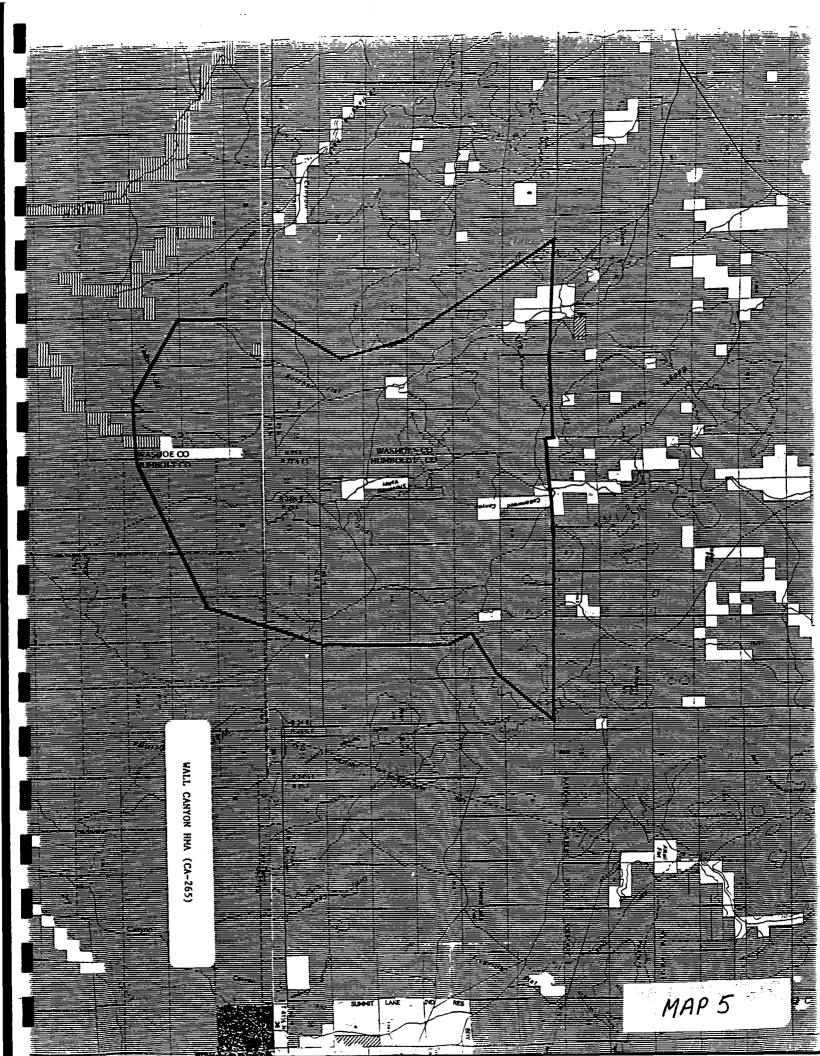
HMA Name	Population Range.
Bitner	15-25 · 16-34 win/max
Wall Canyon	15-25 + 28-58 BY 104
Nut Mountain	30-55 25-52 mont
High Rock (East of Canyon Home Range)	30-40 - NOT GIVEN

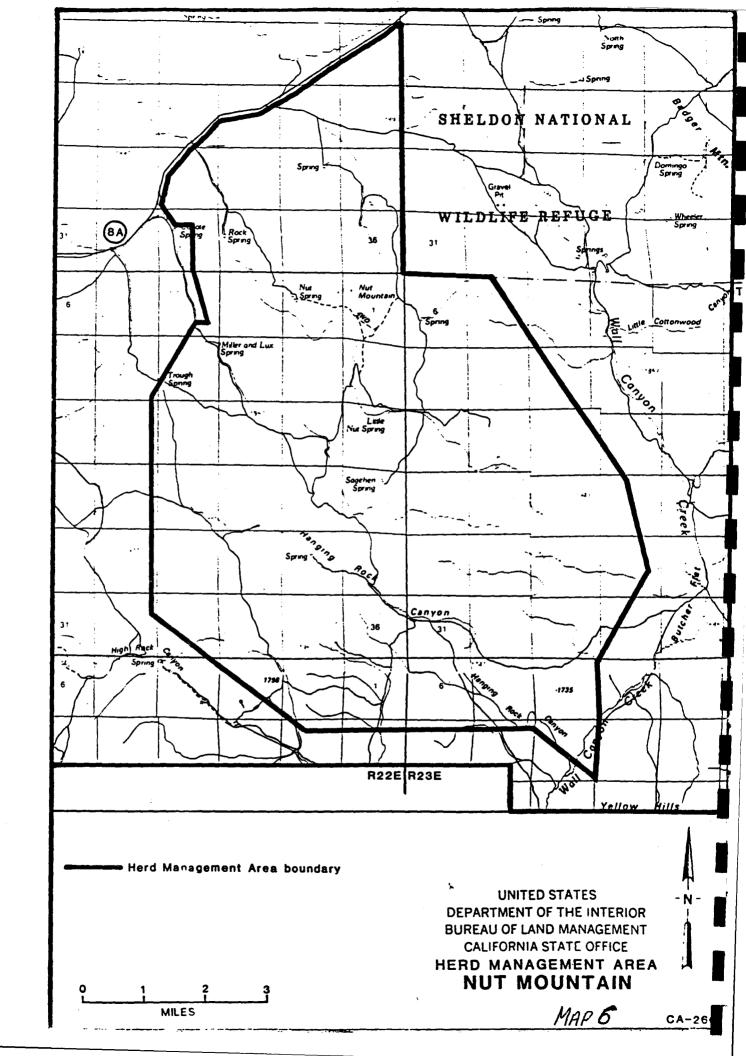
The maximum number for each HMA is the wild horse carrying capacity of the HMAs from the analysis of the 1992 monitoring data. The minimum number is the number of horses which in four years, at the average rate of increase, will reach the maximum number. It is calculated from the maximum number. In four years, the existing populations will be evaluated, and a decision made regarding the need for further removal.





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#### POPULATION AND REMOVAL DATA

The Bitner HMA was last gathered in the fall of 1988 when 33 horses were gathered. Thirteen horses were returned to the HMA at that time. The HMA was placed under structured management<sup>10</sup> with the removal.

The Nut Mountain HMA was last gathered in the fall of 1988. At that time 70 animals were gathered and 30 were released back to the HMA. The herd was structured at that time.

The Wall Canyon HMA was also last gathered in 1988 when 142 animals were gathered with 123 being removed. A population of 19 animals was left on the HMA at that time.

The last removal in the East of Canyon Home Range of the High Rock HMA occurred in the fall of 1988. At that time, 53 animals were gathered, 33 released back to the range, and 20 removed.

The population of wild horses in each area is estimated as follows:

HMA <u>Name</u>	1992 <u>Census</u>	9/1993 Projection
Bitner	40	48
Nut Mountain	52	62
Wall Canyon	78	94
High Rock (East of Canyon Home Range)	55	66

Estimates for wild horses are based on the projected average annual increase of 20%

Estimated gathering and removal for each area is as follows:

HMA <u>Name</u>	Est. # to <u>Gather</u>	# Return To <u>The Range</u>	# to <u>Remove</u>	Total to <u>Remain</u>
Bitner	48	15	33	15
Nut Mountain	62	30	32	30
Wall Canyon	94	15	79	15
High Rock (East of Canyon Hor	66 ne Range)	30	36	30
	*****			
Totals	270	90	180	90

The above figures for capture and removal are estimates. It is recognized that all animals within each area cannot be practically captured. Enough animals will be released to insure that the number of wild horses falls within the established population range. Any base herd horses that have died since the last structuring and removal will be replaced with young animals from those gathered. It is recognized also that the minimum range figure may not be able to be achieved by removing only horses four years and younger. The removal of older horses will only be

<sup>&</sup>lt;sup>10</sup>A base herd within a herd management area that has been established through the selection and retention of primarily older animals which are well adapted to the specific area.

done if they can be readily placed through adoption or put into the prison gentling program. This is likely to be the case on Wall Canyon where many horses cross over from the Winnemucca District.

#### **METHODS OF REMOVAL**

Gathering will conducted by the Susanville District wild horse gathering crew.

Gathering of wild horses will be done by using a helicopter to herd the animals to a trap constructed of portable pipe panels. The helicopter will be used in such a manner that bands will remain together. Rate of movement and distance animals travel will be based on terrain, physical barriers, weather and condition of animals. All traps and wings will be constructed in such a manner to facilitate safe, humane capture of animals. At all times, gathering will be the under direct supervision of a duly authorized employee of the Bureau of Land Management. Humane procedures prescribed by the BLM will be used in all gathering and handling operations.

The majority of the wild horses in each herd management areas will have to be gathered so AML can be achieved by removing only horses four years or younger. This will be done only if practical and at no time will horses be placed under undue stress during the gathering operation. The welfare and humane treatment of the animals will remain the district's highest priority.

Captured animals will be shipped to the BLM's Litchfield Wild Horse and Burro Holding Facility in straight deck trucks.<sup>3</sup> Here the animals will be sorted by age and sex. The Litchfield Facility is well set up to provide for humane handling, preparation, and care of captured animals, with a minimum of stress. It is planned to excess only animals of the ages 4 and under. Older animals will be released back to the area from which they were captured. Animals to be released back to the home range will be kept separate from the other animals and released back to the home range as quickly as possible. Younger animals will be released back to the home range as necessary to insure the population of animals falls within the population range established from the appropriate management level.

All publicity, formal public contact and inquiries will be handled through the Surprise Resource Area Manager.

#### **REFERENCE TO ENVIRONMENTAL ASSESSMENT**

Environmental Assessment No. EA-CA-028-93-03 was prepared in April, 1993 to analyze impacts associated with the removal and age structure re-adjustment.

ask for cc

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#### PUBLIC NOTIFICATION

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The proposed use of a helicopter and motor vehicles for removal of wild horses from the Bitner, Wall Canyon, Nut Mountain and High Rock HMAs will be presented at the Susanville District Multiple Use Advisory Council Meeting on June 16, 1993 in Susanville, California. The Board Meeting will be open to the public.

Prepared by:	Wild Horse and Burro Specialist	Date	
Recommended b	oy: Area Manager, Surprise R.A.	Date	
Approved by:	District Manager, Susanville	Date	

# **APPENDIX 2**

# WILD HORSE POPULATION ANALYSIS

## AND

# MANAGEMENT LEVEL RECOMMENDATIONS FOR BITNER, HIGH ROCK, NUT MOUNTAIN, AND WALL CANYON HERD MANAGEMENT AREAS

#### WILD HORSE POPULATION ANALYSIS AND RECOMMENDATIONS FOR THE BITNER, NUT MOUNTAIN, AND WALL CANYON HERD MANAGEMENT AREAS

#### INTRODUCTION

The purpose of this stocking rate analysis was to determine the current appropriate management levels (AMLs) for wild horses on the Bitner, Nut Mountain, and Wall Canyon Herd Management Areas (HMAs). The most recent monitoring data was used. The existing wild horse population levels, based on a 1977 vegetation inventory and follow up utilization monitoring, were established in 1983 in the <u>Cowhead/Massacre Management Framework Plan</u> <u>3</u> (MFP). During the intervening years, the Surprise Resource Area has been gathering wild horses on approximately a four year rotation. This analysis was done to justify the proposed 1993 gathers in compliance with BLM Instructional Memo No. 90-30.

The utilization pattern mapping for these HMAs is in appendix 4. Utilization was done by grazing allotment, because it was part of the range monitoring program. Utilization was determined using a standard BLM method (BLM Technical Reference 4400-3, Section 5.23). Cattle reductions, due to the drought, resulted in some areas only being used by wild horses. The "Key Areas" in the following calculations were riparian areas used only by horses.

The focus was on riparian areas for two reasons. Recent evaluations and observations have found that while upland vegetation was either unchanged or improving, riparian area vegetation and hydrologic conditions were poor and not improving. One of the BLM's management goals is by 1997, 75% of the riparian-wetland areas on public lands will be in properly functioning condition.

The maximum appropriate wild horse population levels were determined using the "Desired Stocking Rate" formula. Wild horse "Actual Use" was calculated from the 1992 counts. The "Desired Key Management Area Utilization" was the utilization maximum from the MFP. "Key Management Area Utilization" came from the 1992 utilization pattern mapping.

#### The Desired Stocking Level formula is:

Actual Use=Desired Actual UseKey Management Area UtilizationDesired Key Management Area Utilization

(BLM Technical Reference 4400-7, Appendix 2, Page 1, p. 54)

For each HMA the formula was solved for the unknown, "Desired Actual Use." This was the maximum appropriate wild horse use. Maximum wild horse numbers were calculated from the maximum appropriate use. Minimum wild horse numbers were calculated from the maximum numbers using the average rates of increase for structured wild horse herds. The AML was the median of the maximum and minimum numbers.

The abbreviation "AUMs" was used in this analysis. An AUM is an Animal Unit Month. An AUM is the amount of forage required to sustain a cow with a calf for one month. In the 1977 inventory and the MFP an AUM was 800 pounds of useable forage. AUMs are used for forage allocations, because there are standard conversions for the large herbivores on the western rangelands. For example, one horse for one month equals one AUM, while five deer for one month equal one AUM.

#### ANALYSIS

#### **BITNER HMA**

#### Forage Demand

1.	Livestock	1,702 AUMs
	Wild Horses	480 AUMs
	Total	2,182 AUMs

2. Forage demand is livestock active preference plus current wild horse numbers for the HMA.

#### Maximum Wild Horse Use

- 1. Desired Utilization x Actual Use \_ Desired Use Actual Utilization
- 2. 60% x 480 AUMs \_ 411 AUMs Desired Use 70%
- 3. The Maximum Wild Horse Use was 411 AUMs.

#### Calculation of Maximum and Minimum Wild Horse Numbers

1. Maximum Numbers

411 AUMs / 12 months = 34 horses

2. Calculation of Minimum Numbers (Assumption: Gather every four years)

34 horses (maximum number) / 1.178 average population increase  $4^{th}$  year post gather for a structured herd = 29 horses

29 horses / 1.157 average population increase  $3^{rd}$  year post gather for a structured herd = 25 horses

25 horses / 1.1873 average population increase  $2^{nd}$  year post gather for a structured herd = 21 horses

21 horses / 1.276 average population increase  $1^{st}$  year post gather for a structured herd = 16 horses (minimum number)

#### Calculation Of AML

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1. Calculation of Median

34 (max. number) - 16 (min. number) = 18; 18 / 2 = 9; 16 + 9 = 25

2. The AML is 25 wild horses

#### Wild Horse Population Adjustments

- 1. 48 horses (projected '93 population) <u>- 16 horses minimum allowable</u> 32 horses to be removed
- 2. In the fall 1993, there will be approximately 48 wild horses on the Bitner HMA. As many of these horses as practical will be gathered. Enough horses will be returned to the range to assure that there are at least 16 wild horses in the HMA. If all 48 horses were gathered 32 would be removed and 16 returned to the HMA.

#### NUT MOUNTAIN HMA

#### Forage Demand

1.	Livestock	4,893 AUMs
	Wild Horses	<u>960 AUMs</u>
	Total	5,853 AUMs

2. Forage demand is livestock active preference plus current wild horse numbers for the allotment.

#### Maximum Wild Horse Use

- 1. Desired Utilization x Actual Use \_ Desired Use Actual Utilization
- 2. 60% x 960 AUMs \_ 823 AUMs Desired Use 70%
- 3. The Maximum Wild Horse Use was 823 AUMs.

#### Calculation of Maximum and Minimum Wild Horse Numbers

1. Maximum Numbers

823 AUMs / 12 months = 69 horses

2. Calculation of Minimum Numbers (Assumption: Gather every four years)

69 horses (maximum number) / 1.178 average population increase  $4^{th}$  year post gather for a structured herd = 59 horses

59 horses / 1.157 average population increase  $3^{rd}$  year post gather for a structured herd = 51 horses

51 horses / 1.1873 average population increase  $2^{nd}$  year post gather for a structured herd = 43 horses

43 horses / 1.276 average population increase 1<sup>st</sup> year post gather for a structured herd = 33 horses (minimum number)

#### Calculation of AML

1. Calculation of Median

69 (max. number) - 33 (min. number) = 36; 36/2 = 18; 33 + 18 = 51

2. The AML is 51 wild horses

#### Wild Horse Population Adjustments

- 1. 62 horses (projected '93 population) <u>- 33 horses minimum allowable</u> 29 horses to be removed
- 2. In the fall 1993, there will be approximately 62 wild horses on the Nut Mountain HMA. As many of these horses as practical will be gathered. Enough horses will be returned to the range to assure that there are at least 33 wild horses in the HMA. If all 62 horses were gathered 29 would be removed and 33 returned to the HMA.

#### WALL CANYON HMA

#### Forage Demand

1.	Livestock	3,215 AUMs
	Wild Horses	<u>936 AUMs</u>
	Total	4,151 AUMs

2. Forage demand is livestock active preference plus current wild horse numbers for the allotment.

#### Maximum Wild Horse Use

- 1. <u>Desired Utilization x Actual Use</u> \_ Desired Use Actual Utilization
- 2. <u>60% x 936 AUMs</u> 702 AUMs Desired Use 80%
- 3. The Maximum Wild Horse Use was 702 AUMs.

#### Calculation of Maximum and Minimum Wild Horse Numbers

1. Maximum Numbers

n

702 AUMs / 12 months = 58 horses

2. Calculation of Minimum Numbers (Assumption: Gather every four years)

58 horses (maximum number) / 1.178 average population increase  $4^{th}$  year post gather for a structured herd = 49 horses

49 horses / 1.157 average population increase  $3^{n}$  year post gather for a structured herd = 43 horses

43 horses / 1.1873 average population increase  $2^{nd}$  year post gather for a structured herd = 36 horses

36 horses / 1.276 average population increase 1<sup>st</sup> year post gather for a structured herd = 28 horses (minimum number)

#### Calculation of AML

1. Calculation of Median

58 (max. number) - 28 (min. number) = 30; 30/2 = 15; 28 + 15 = 43

2. The AML is 43 wild horses

#### Wild Horse Population Adjustments

- 1. 94 horses (projected '93 population) - 28 horses minimum allowable 66 horses to be removed
- 2. In the fall 1993, there will be approximately 94 wild horses on the Wall Canyon HMA. As many of these horses as practical will be gathered. Enough horses will be returned to the range to assure that there are at least 28 wild horses in the HMA. If all 94 horses were gathered 66 would be removed and 28 returned to the HMA.

#### RECOMMENDATIONS

#### COMPARISON OF MIP MANAGEMENT LEVELS AND MANAGEMENT LEVELS CALCULATED IN THIS ANALYSIS

<u>HMA</u>	MFP MANAGEMENT <u>LEVELS</u>	ANALYSIS MANAGEMENT LEVELS
Bitner	15 - 25	16 - 34
Nut Mountain	30 - 55	33 - 69
Wall Canyon	15 - 25	28 - 58

For the Bitner and Nut Mountain HMAs the management levels from this analysis and the MFP were similar. On the Wall Canyon HMA the management levels from the analysis were about double the MFP management levels.

# INFLUENCE OF LIVESTOCK MANAGEMENT ON THE ANALYSIS' MANAGEMENT LEVELS

Livestock numbers on the allotments in these HMAs were between 24% and 56% of the permitted amount. This was in response to the drought that has been affecting the area. This was not a permanent reduction in livestock. For example, in 1993 the Bitner and Nut Mountain Allotments, are expected to be stocked around 90% of normal, while the Wall Canyon Allotment will be stocked at around 50% of normal. \*

It is believed that the increased management levels for wild horses that were calculated in this analysis resulted from the reduction in livestock during the 1992 grazing season, not from an increase in available forage on the HMAs<sub>a</sub>

#### DISCUSSION

#### **Bitner HMA**

The recommended management levels for the Bitner HMA are 15 - 25 wild horses. This analysis supported the management levels first established in the MFP, because both were so similar. While livestock numbers were way down in 1992, so was production, because of the drought. The analysis showed that there was not extra forage to allocate on this HMA, that the current 40 wild horses were too many, and that the 15 - 25 wild horses was in the area of the optimum number considering the other uses of the area.

#### Nut Mountain HMA

The recommended management levels for the Nut Mountain HMA are 30 - 55 wild horses. The reasoning is similar to for the Bitner HMA.

#### Wall Canyon HMA

The recommended management levels for the Wall Canyon HMA are 15 - 25 wild horses. This analysis found that in 1992 there was habitat for up to 58 wild horses in this HMA.

One of the issues of concern on the Wall Canyon HMA was poor riparian area condition and too heavy riparian area utilization. There is potential riparian habitat along both Wall Canyon Creek and Cottonwood Creek. Most of these areas have been converted to upland vegetation by the long history of overgrazing. The few meadows and riparian areas that remained along Cottonwood Creek were wild horse concentration areas during 1992. In other words the most sensitive sites received some of the heaviest wild horse use.

Another problem on the Wall Canyon HMA is movement of wild horses from the "Winnemucca District. In 1988 there were 19 wild horses on this HMA. In 1992 there were 79. This was an average population increase of 43% per year. This was double the normal rate of increase on the Surprise Resource Area and double the maximum known rate of increase for a closed population of horses. There are 5,000 wild horses on the HMA to the east of Wall Canyon. Although the boundary fence is in good condition, horses are continually moving onto Wall Canyon. Because of the influx of

horses from the east, it would not matter if this HMA were managed for no horses. There would always be horses present.

Using the 15 - 25 management levels means that, at the 1988 - 1992 rate of increase, horses would be above the maximum allowable use level, 58 horses, determined in this analysis, in four years. Implementing the 28 - 58 management levels from this analysis, at the 1988 - 1992 rate of increase, would mean that the horses would be at the maximum allowable use level in two years.

# **APPENDIX 3**

# **RIPARIAN AREA FORAGE PRODUCTION**

## AND

# WILD HORSE DEMAND FOR RIPARIAN SPECIES

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#### RIPARIAN AREA FORAGE PRODUCTION AND WILD HORSE DEMAND FOR RIPARIAN SPECIES

#### INTRODUCTION

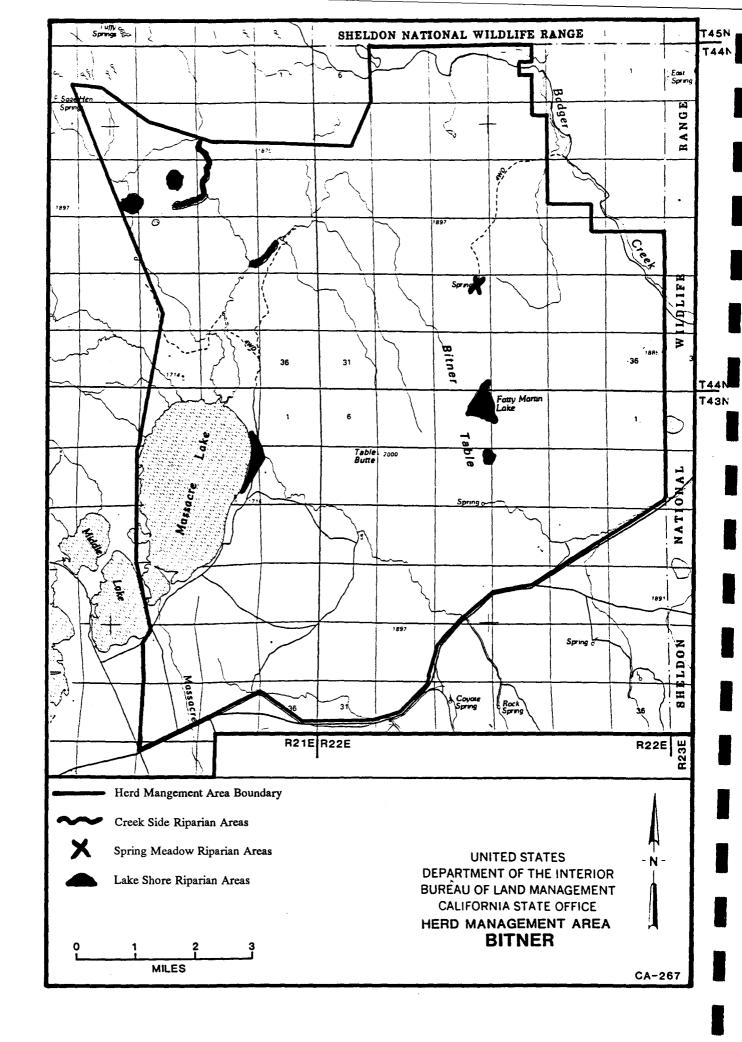
The purpose of this appendix is to compare the amount of forage being produced by riparian areas with the wild horse dietary demand for riparian species. On the Bitner, Nut Mountain, and Wall Canyon HMAs the justification for the recommended management levels was the heavy wild horse impact on riparian areas. The following will document that impact to the best of our ability.

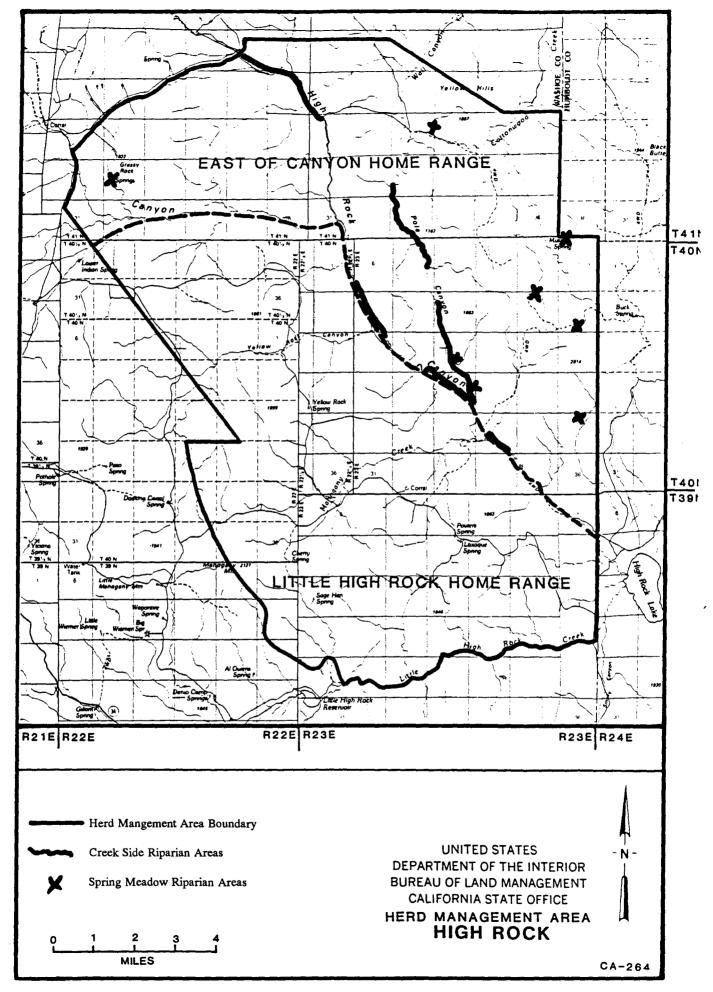
There are many generalizations and assumptions in what follows.

The riparian areas identified on the maps in this appendix are areas which currently produce riparian vegetation. They are not all the areas which have the correct landscape position to potentially have, or historically may have had, riparian vegetation. In the Wall Canyon HMA, Wall Canyon Creek is not mapped as a riparian area, because the potentially riparian locations are producing upland vegetation. Therefore the number of riparian acres identified in this appendix are likely conservative.

The range sites are from the Soil Conservation Service, Nevada MLR 23, Range Site Guide. However, in Nevada, range sites are not broken down to production per condition class. Also, because riparian areas have generally been lumped with surrounding uplands, there is not a range site which corresponds to a riparian willow community which would likely be the climax community in some of the riparian areas in these HMAs. As a result all the production estimates came from the Soil Conservation Service, Oregon High Desert Province, Range Site Guide.

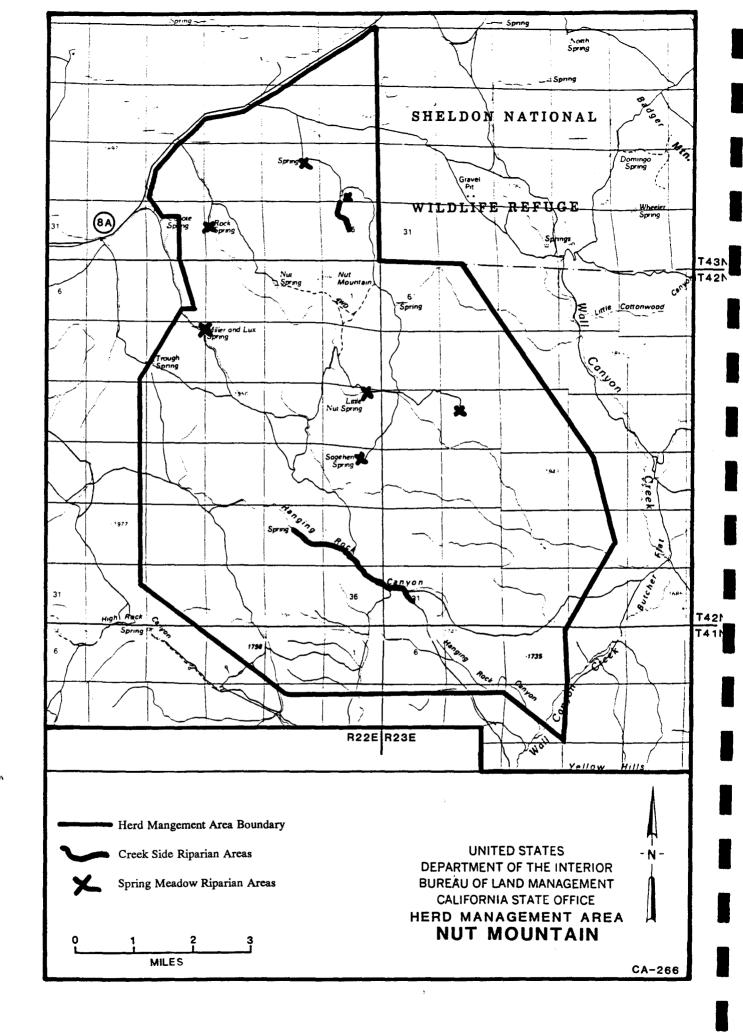
The wild horse diet information came from a one year study on the Tuledad Allotment. The method of diet component identification was fecal analysis. Fecal analysis tends to over estimate course plants such as grasses, rushes, and shrubs, and under estimate succulent plants such as spring forbs. Tuledad Allotment is about 40 miles southwest of the HMAs being evaluated. The upland vegetation is similar, but the Tuledad Allotment does not have canyons like High Rock, Wall, and Cottonwood, which are important potential riparian areas in the HMAs. In the Tuledad Allotment much of the basin wildrye grows in open, dry lake areas. In the HMAs, and particularly in High Rock, basin wildrye is an important component of the canyon riparian community. The difference between open lake beds and canyon bottoms could affect wild horse use of these two different sources of basin wildrye. The data from the Tuledad study was applied directly to the HMAs.





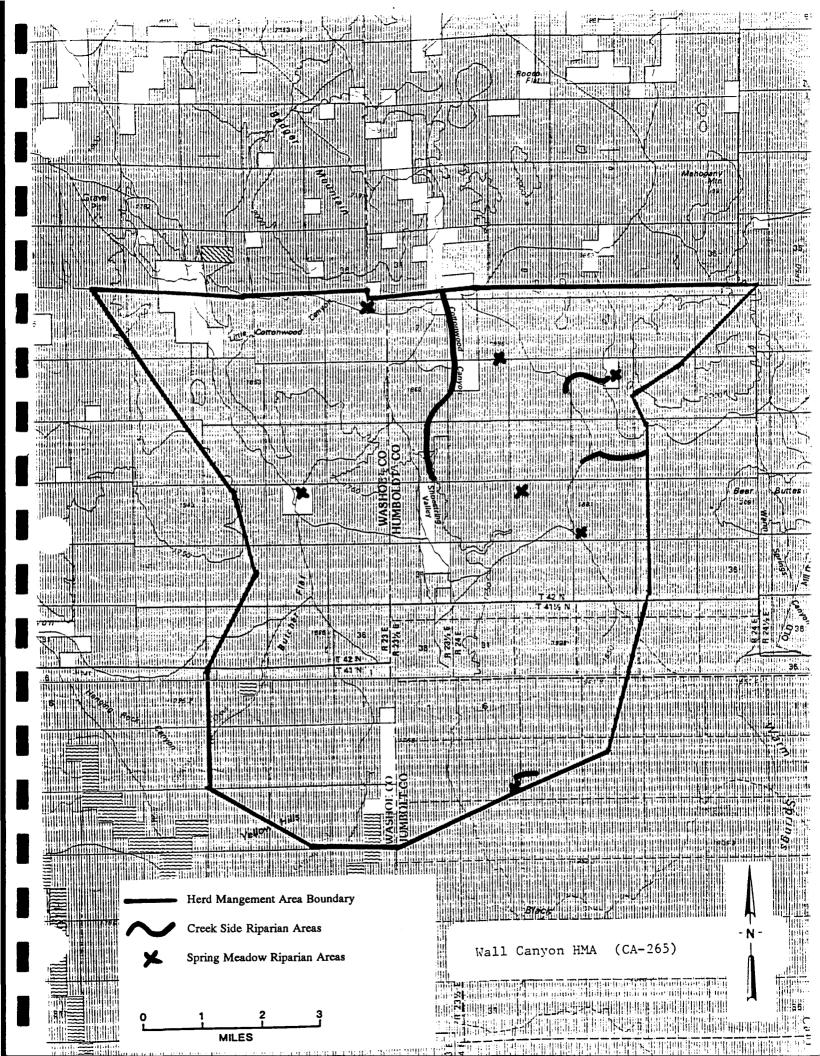
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			BITNER HMA							
<u>Riparian Type</u>	<u>Nevada Range Site</u>	Acres	Successional Stage	Production Rate (pounds/acre) (OR Range Site #)	<u>Production</u> (pounds)					
Stream Corridor	,	12	cariy	90 (HDP 6143)	1,080					
Spring Meadows	Dry Meadow (MLR 23-13)	2	carly	650 (HDP 1116)	1,300					
Lake Shore & Lake Bed	Clay Basin (MLR 23-3)	440	carly NA	0 - 800 (HDP 6172&1135)	0 - 352,000					
TOTAL	······································	454			2,380 - 354,380					
	HIGH ROCK HMA	•	East of Canyon Home Range							
<u>Riparian Type</u>	<u>Nevada Range Site</u>	<u>Acres</u>	Successional Stage	Production Rate (pounds/acre) (OR Range Site #)	<u>Production</u> (pounds)					
Stream Corridor	Loamy Bottom 8-12" (MLR 23-9)	100	late	1,750 (HDP 1104)	175,000					
Stream Corridor		120	mid	mid 1,050 (HDP 1116)						
Spring Meadows	Dry Meadow (MLR 23-13)	16	early	650 (HDP 1116)	10,400					
TOTAL		236			311,400					
		-	NUT MOUNTAIN HMA		·					
<u>Riparian Type</u>	<u>Nevada Range Site</u>	Acres	Successional Stage	Production Rate (pounds/acre) (OR Range Site #)	<u>Production</u> (pounds)					
Stream Corridor		39	carly	210 (HDP 1104)	8,190					
Spring Meadows	Dry Meadow (MLR 23-13)	14	carty	650 (HDP 1116)	9,100					
TOTAL		53			17,290					
			WALL CANYON HMA	· · · · · · · · · · · · · · · · · · ·						
<u>Riparian Type</u>	<u>Nevada Range Site</u>	Acres	Successional Stage	Production Rate (pounds/acre) (OR Range Site #)	Production (pounds)					
Stream Corridor	Corridor 70 carly 210 (HDP 210)									
Spring Meadows	Dry Meadow (MLR 23-13)	14	carly	650 (HDP 1116)	9,100					
TOTAL		84			23,800					

## **RIPARIAN AREA FORAGE PRODUCTION**



#### WILD HORSE DEMAND FOR RIPARIAN SPECIES

1 wild horse eats

1,000 pounds of forage/month

<u>x 4</u> months (April through July)

4,000 pounds of forage are consumed by each horse during the summer.

The wild horse food habits study on the Surprise Resource Area found that during the April through July period, on average, wild horse diets contained 49.1% riparian species. 1,964 pounds of riparian forage is consumed by each horse during the summer.

	BITNER HMA	HIGH ROCK HMA East of Canyon Home Range	NUT MOUNTAIN HMA	WALL CANYON HMA
1992 Counts	40 horses	55 horses	52 horses	78 horses
Riparian Forage Demand (1,964# x N horses)	78,560 pounds	108,020 pounds	102,128 pounds	153,192 pounds
Recommended Minimum Number	15 horses	30 horses	30 horses	15 horses
Riparian Forage Demand (1,964# x N horses)	29,460 pounds	58,920 pounds	58,920 pounds	29,460 pounds
Recommended Maximum Number	25 horses	40 horses	55 horses	25 horses
Riparian Forage Demand (1,964# x N horses)	49,100 pounds	78,560 pounds	108,020 pounds	49,100 pounds
Riparian Forage Production	2,380 pounds - 354,380 pounds	311,400 pounds	17,290 pounds	23,800 pounds

# **APPENDIX 4**

**VEGETATION** 

# CONDITION AND TREND TRANSECTS

# BITNER, NUT MOUNTAIN, AND

# WALL CANYON (EAST) ALLOTMENTS

# IN THE

BITNER, NUT MOUNTAIN, AND WALL CANYON HMAS

# = Photo # =, 22, 23, 23

Allotment Num. 1006:

Pasture Name: South : State: CA: Off: 068: Plan Unit: Joi Chtyles

Aliquot Part: NW SE Water Shed: Topographic Position: Local Landform: BNC: Range Site: 17-54-Elevation: 6300'; Aspect: 302' Azmuth: 34'; Slope Length ... Slope Shape: () : Percent Slope: // : Slope Factor: 27:

> R factor: 7: Soil Series: Stampede Avg Ann Precip: /O: MeanSea Precip: //

Soil Phase: gravely loam Plot Frequency: 1020: Number of Plots: 2 : Date Establish: 7-75-81 Lithic scatter (Y OR(N): V: Frame Size: /000-850715 

> ID Photos 21 Azimuth 22 1st Reba 23 Aspect to Fat Martin. 24 162° to Mut Inth

Transect Number: 5432203

K factor: N3 :

Township ID: THEN RIZE SO3:

# of Plots for FRED: 100 ALLOTHENT NAME: Bitner TRANSECT #: S432203 DATE READ: 850715 RECORDER: Cooper \_\_\_\_ 6 ----- % \* \* \* \* 2 z SPECIES1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 SUBT PCOV PCOM HITS FRED KEY \*\*\*\*\*\*\* 2.5 0.1 0.1 4 Y AGSP 1 10.6 0.3 0.6 3 3 Y STTH2 . 1 . 1 1 . ...1 5.0 0.1 0.3 POSE 1 1 11 32.5 1.8 12 12 N Ø. A SIHY 1 2 1 5 5 0.0 8.0 POCA 82 97.5 2.4 5.4 82 24 24 1 1.1 1 10.0 0.3 9.6 BRODI 10.0 0.3 0.6 16 16 N PHL02 11 1 1 7.5 10 18 PPFF 1 Q. 4 1 1 0.0 5 SIAL2 A. A DEGE 0.0 0.0 MEL 04 1 1 10.0 TRIFO 1 1 A. 3 0.6 5.0 0.0 LUCA 0.0 2 3 34 55 1 597.5 10.0 22.2 PUTR2 1 3 PUTRS 2 20.0 0.3 0.7 44341222 2321213 33354 2 4 2 2 5 1797.5 30.0 66.8 35 ARAR8 24213 111354 35 TECA2 0.0 0.0 0.0 7 7 LTTR 131221223242232544341222522233332323232351 1185.8 29.6 

4070 81.62 LIVE COVER TOTAL 44.8

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TOTALS

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 Transect Number: 5442205
 Allotment: Num.: 1000:

 Pasture Name: Nocth
 State: CA: Dff: 2011
 Plan Unit: 201
 Cnty: 23/1

 Township ID: 744N, Rage, 3cc. 5
 Aliquot Part: NENC
 Water: Bhed: 772,0009

 Topographic Position: M:
 Local Landform: 5021
 Range Site: And Carteries:

 Elevation: 6000
 Aspect: SE:
 Azmuth: 219:
 Slope Length: 507

 Slope Shape: Harris
 Percent Slope: 5:
 Slope Factor: 24:

 K factor: .3Z:
 R factor: 7:
 Soil Series: Marthson Carteries:

Soil Phase: or low : Avg Ann Precip:/0": MeanSea Precip: 9./ : Plot Frequency: 10 Lo: Number of Plots: Date Establish: 6/27/85: Lithic scatter (Y DR N): N: Frame Size: /000 cm:

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PHLO2					I		1			1		-		1	1	1	1 1	2					1	1	· •		1		• • • • • • • • •			8. t <i>t</i> de  8.									*	42		1.1		3.2	7		7	Ň	
TRIFO					1		-			-	1	1		~	-	-																										7.		0.2		0.6	4	•	4	N	
LUCA 1		2				2		2		-							1							1			1															55.	0	1.4		4.2	23		23	N	
CRAC2								<b>.</b>		_			1																	_												2	5	0.1		0.2	12		12	N	_
ASTER							1	1																																		5	0	0.1	1	8.4	8		8.0	N	
acmil																							-																			0	. 8	0.0	<u> </u>	0.0		<u> </u>	3.0	N	!
ERIOG																																											. 0	0.0	)	6. 0	ć	2	2.0	N	J
ARAR8 3	3 1	2 1	2 1		3				5	3 2	2	1 3	3	4		3	3 1	4	5	3 5	2	4.		1	5	4	3	1	<u>3</u> į	2		5 5	2	! <b>1</b>	. (	2 (	5 S	1	. 1	1		1172		19.5		9.1	37	3	7.0	N	!
ARARS																						_																				-	. 6	0.0		0.0	ć	2	2	N	
CHVIB							•							•					·			2											•									15		0.3	·	0.8				<u>N</u>	
LTTR a					5 5	1	11	. 1	5 8	21	5	1 6	2	3	11	3	1	13	4	43				1		-																		17.9						N	1
ROCK 2	2 2 1	2 2	3.	54	2 2	3	4 4	2	1	24		2 8	24	1	1	5		Ļ		1	1	i	24	5	Ĩ Ì	·	23														•	755		18.9	<b>,</b>					N	į _

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3190 69.85 LIVE COVER TOTAL 33.0

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TOTALS

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# **APPENDIX 5**

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## **1988-1992 UTILIZATION MONITORING**

## BITNER, NUT MOUNTAIN, AND

## WALL CANYON (EAST) ALLOTMENTS

# IN THE

BITNER, NUT MOUNTAIN, AND WALL CANYON HMAS

		Ć	
1	h weden	JLEDAD/HOME CAMP onitoring System	
New Jak	Con Plo	dition/Trend Site t Number <u>#/</u>	
	Allotment//uf		
	Location T 43R 22 S 19 1/16 Soil <u>Newland S</u>		
1	% Slope Slope Leng		Uniform Slope Convex
	Position on Slope <u>Top</u>	R Factor	K Factor
<b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	. Ju to the state of the state		
	PLOT LAYOUT:		
		× - Post p.chure tecton loo	ebur Iciy down

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22.77 12						ะขุบคย ว	<b>КНІ</b> .	L M N 1 3		COVE	: n 4			5						" "	#			
	C)281 2 3 -	4557	8961	2345	6789	0123	4567	892	1234	5678	390	1234	567	8901	234	567	890	SUBT	PCOV	PCOM	HITS	FREQ	KEY	
÷4.8	*****	******	*******	*******	******	*******	*******	******	******	*******	*****	******	******	******	*****	******	****	******	*****	*****	*****	****	*****	4
	7-2211	1	112	2.2	1	1	121		1		1	_						102.5		7.8	70	35	<u> </u>	
	iπ¥							1										2.5		8.2	1	8.5	Y	
	:1 <b>)</b>																	8.0	0.0	0.0	1	0.5	Y	
and the second s	<del></del>	1		1 2 2			<u>i</u> 1	. 1	1	11	1							52.5		4.0	32	16	N	~~ <b>_</b>
	22	1		1		11			1	1 1								15.0	6.4	1.1	50	10	N	
	NE3																	3.0	0.0	0.0	4	2	N	
	F12																	6.0		0.0	8	4	N	
	iace																	0.0		9.0	6	3	N	
	LIÚ									1								2.5		0.2	4	. 2		
	STAA 1									1			•					5.0			6	3	N	
	22		-		1	1	1											7.5	0.2	• • •	15	7.5	N	
	i- ]		2		2						_							30.0	0.8		33	16.5		
	<u>JCA</u>	•				1					5							17.5			6	3.0	N	
	RIFO																	8.6		6.0	18	9.0	N	
	STER										_							. 0.0			31	15.5		
	AFF 111	1111	151	1 11	<u>11 1</u>	1511	111	1111	111	<u>1111</u>	<u>e i i</u>								3.25					
t <sup>-1</sup>	etan 2	4	4 E	51	13	542	32	33	132	3 12	1 2		32	1		51	21	942.5	15.7	72.1	45	22.5	N	
••	TTR 112	1212	1116	2253	4312	2452	152	5151	245	2213	322	1212	5 5 5 1	3215	i 1 3	555		3 1545.0					N	
	ECK 135	2421	1321	2111	1133	1113	111	122	1	1111	1	3333	3335	2221	334	431	212	_ 1110.0					N	
	88 531	5451	253	5125	3244	5113	615	1516	41[	4543	3 4 2	5437	• 3 3 3	4 5 5 1	333	1233	4 3 4	n 2786.0	46.3				N	
			•																•					$\sim$

6742.5 115.4 LIVE COVER TOTAL 24.8

TOTALS

			C.		
	TULEDAD/HOM Monitoring Condition/Tre	E CAMP <sub>.</sub> System			
	Plot Number	*2			
Allotment Nut Mt.			Arte-Pat	r - Agsp - Feid	
Location T 42 R 22 S 01				_	
Soil Newlands	Aspect	Sw	E	levation <u>65</u>	<u>20</u>
% Slope <u>S</u> Slop				Uniform	
Position on Slope	() R Factor		K Fact		
·					
,	1 To Wall	Canjon Rel.			
	)				
			, Rabe	*	
		Post	-		
		<b>XÍ</b> \c <sup>ī</sup>	$\hat{\mathbf{G}}$	د	
		Loo-	A		
PLOT LAYOUT:		C. Derry			
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13 childe							
= 1 2 3 4 5	==******** 6 ======	******	¥	+++++++++++ + % HITS FREQ	12112		
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	30.0 2.0 7.5	0.8 0.0	1.8 0.0 0.5	23 11.5	N		
1 1 1	0.0 0.0 5.0	0.0 0.0 8.1	0.0 0.0 0.3	2 1 1 <b>0.5</b> 11 <b>5.5</b>			
PHLD2         I	2.5 32.5 62.5	<b>0.8</b> 1.6	<b>9.2</b> 2.0 3.8	16 8 64 32 16 8	N N		
ABTER 7 22 TRIED 1 1 1		0.8 0.187	0.0 1.8 0.5	5 2.5 1 0.5 29 14.5	i N N		$\overline{\mathbf{n}}$
ZYPA         -1         1           ALLIG         ARFE         1 <t< td=""><td>0.0 75.0</td><td>1.9</td><td>0.3 0.0 4.5</td><td>2 1.0 25 12.5 46 2:</td><td>i N S N</td><td></td><td></td></t<>	0.0 75.0	1.9	0.3 0.0 4.5	2 1.0 25 12.5 46 2:	i N S N		
ENDB     1     1     1       ANTRY     24121     323     111     1143     33     11     4     4     1     3     3     1     2     34131     5     3233     2     1       ANTRY     24121     323     111     1143     33     11     4     34     1     3     1     2     34131     5     3233     2     1       PUTR2     4     4     1     3     3     3     3     3     3       CHVIB     1     1     1     1     1     1     1     1	10.0 4 1035.0 1 242.5 7.5	17.3	41.8	42 2 82 4 30 1 5 2.	LN SY		
TEDA2     I     2     I       1     2     2     1       2775     1     2     1     2     1       2775     1     2     1     2     1       2775     1     2     1     2     1       2775     1     2     1     2     1       2007     5     5     1     3     4       2007     5     1     4     3     4	35.0 1 895.0	- <b>8.</b> 6	1.4	28 1			
53 2111223242314444324444344441442242354444422123231423433433 Teleformering and the second second TOTALS	3 2362.5	i 39.4		over total		وباز	

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TULEDAD/HOME CAMP Ē Monitoring System Condition/Trend Site Plot Number #3 Allotment Nut Mountain Habitat Type how Sage - losa Location T 42 R 22 S 15- 1/16th SEAW Date Estab. 6-28-83 Soil <u>Espil</u> Aspect <u>Southwest</u> Elevation <u>6420</u> Uniform % Slope 5% Slope Length 450 ft Type of Slope Convex (Circle One) Concav Position on Slope 2 (middle) R Factor \_\_\_\_\_ K Factor 1.5 miles to Trough Spr. く Jeeptro 2 miles PLOT LAYOUT: To Rossinior.

TRANSECT #: 5422215		30628 RECORDER: Iron		ALLOTMENT NAME: N		# of Plots for FREQ					
	2222222222222222 1	2.	KAI CHNUPY 3	<u> </u>		6 ======	×*******	******	**********	=====	
SPECIES1 2 3 4 5 6	7898123	45678901234	4567890123	456789812	34567898123	4 5 6 7 8 9 0 SUBT	PCOV P	Xom h	ITS FRED	KEY	
	***********	**************	****************	*******	******************	********************		*********			
FEID		<u> </u>	1			5,0		0.3	<u>    1    0,5                            </u>		
57776	1		1			5.0	0.1	Ø.3	4 2	Ŷ	
Siev 11		1 1	1 .	11		37.5	<b>0.</b> 9	1.9	ь з 198 99	N	
	2121212	1112322222	2323333111	2222323		<u>690.0</u> 0.8	<u>17.3</u> 0.0	35.2 Ø.0	<u>198 99</u> 8 4	<u> </u>	
53263		<b>A</b> (	1 11 1	r		35.0	6.6 6.9	1.8	23 11.5		
TRIFO 1 PHHO	1 1	21	1 11 2 1 1			92.5		4,7		N	
ASTER 1	112	1 12 2	1 1	1		63.0	1.6	3.3	15 7.5		
HAR	3		 2	•		52.5	1.3	2.7	21 10.5		
REETU	-		-			0.0	0.0	0.0	1 0.5	N	
ERFI2 1		5 5	2 2 11 1	1 11 2		92.5	2.3	4.7	51 25.5	N	
1 0466		11 1	1 1	1 1		20.0	0.5	1.0	28 . 14	N	
1758			11			5.0	0,1	0.3	<u>i 0.</u> 5	<u>N</u>	
ASTRA				2		15.0	0.375	0.8	5 2.5	N	
GAFF 1			1				0.125	0.3	5 2.5		
ERIOG 1	12 11	<u> </u>		1 2			1.125	2.3	49 24.5		
• • • • • • •	1 353 41	1143 43321	33212 432	112 1512	55515 1131	•••••		39.3	64 32	l N	
CRNP2	3					37.5		1.3	2 1	N	
<u>.TTR 11322</u>		1111315111	111151131			337.5	8.4			<u>N</u>	
ROCK 15323		3435442344	44445434	44432434		2042.5				N	
BG 11212	33555355	355515555	2333323233	22445332		1007.5	25.2			N	

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5747.5 133.7 LIVE COVER TOTAL 49.0

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Transect Number: 5432125 : Allotment Num. :  olo :
Pasture Name: Cavalry Camp : State:CA: Off:068: Plan Unit:10: Cnty:031:
Township ID: <b>T43N R2NE S 2S :</b> Aliquot Part: <b>NWNE :</b> Water Shed: <b>/6040204 :</b>
Topographic Position:M: Local Landform:BNC: Range Site: 6 - Loany :
Elevation: 5700': Aspect: L: Azmuth: 320: Slope Length: 410: 40
Slope Shape: U: Percent Slope: 2: Slope Factor: ./5:
K factor: . 20: R factor: 7: Soil Series: Langston :
Soil Phase: Silf loam 0-4% : Avg Ann Precip: 10: MeanSea Precip: 9.1: Plot Frequency: 1020: Number of Plots: 4 Date Establish: 840821: Lithic scatter (Y DR N):N: Frame Size: 1000cm
Slope       Shape: U:       Percent Slope: 2:       Slope Factor: ./5:         K factor: .20:       R factor: 7:       Soil Series: Langston       :         Soil Phase: Silt loam       0-4% :       Avg Ann Precip: 10:       MeanSea Precip: 9.1:         Plot Frequency: 1020:       Number of Plots: 4       Date Establish: 840821:

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= SPECJES1 2 3 4 5 6 7 8	1 9 9 3 1 2 3 4 5 6 7 8 9	2 0123456			5 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9		X X PCOV PCOM		X ===== REQ KEY	
A364	1112 2111221	2 231	111 2122	••••	******		8.3 54.9 0.8 0.0 0.1 2.6	109 5		
BRTE 111111111 EUCA 1	1 111111111 111	1111111		111111		92.5 12.5 5.0	2.3 15.3 0.3 2.1 0.1 0.8	19	14.5 N 9.5 N 9.5 N	
APFF 1111111 MOSS 2	111111111111 2 1	1 11	11 1111	111111		85.0 35.0 57.5	2.1 14.0 0.9 5.8	6	99 N 12.5 N 14.5 N	
CHV18	111343211141	2411111	11111112	1212111131	1 1 1 1 3 2 1 1 1 1 3 1 2 3 3	0.0 2 1 747.5	0.0 0.0 12.5	9 7	3.5 N N	

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1477.5 23.35 LIVE CAVER TOTAL 15.1

TULEDAD/HOME CAMP Monitoring System Condition/Trend Site į

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N 4-1-1= 5

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Plot Number <u>#1</u>
Allotment Wall Canyon W Habitat Type Aray - Para
Location T 42 R 23 S 0/ 1/16th Date Estab. 8-19-82
Soil <u>Newlands-Espil Assoc</u> Aspect <u>SE</u> Elevation <u>6160</u>
% Slope Slope Length Mi Type of Slope Convex (Circle One) Concave
Position on Slope /// R Factor K Factor
Is mile of south side of road before big sage when my nor -
PLOT LAYOUT:
Bis Bis relidation for the second

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TRANSECT	ŧ	:5	122	30	1	D	ATE	ER	EA	D:	8	20(	819	9 6	ΈC	ORI	DER	1: 1	iro	ns								f	Ш	m	EN	T N	(AME	: C	ott	ion	100	d (	Wa	11	Car	iyoi	n)	<b>#</b> c	fl	Plo	ts	for	r FREQ	: 200	I				
1=======	==	==:	-==	==:	- 2 -	==	==2	==	22	==	==:	==:			:==	==:	=Q	U A	1 0	R	A	T	C	A	NI	) F	Y		Cí	0 (	ΙE	R	<b>3</b> 52	:===	222	===:		===	==:	= = =	===	:==:	===		==:	===	===	=++	******	*****	***	****	*****	*****	*****
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SPECIES1	2	3	4	5 (	67	6	9	0	1	2	3 4	4 5	56	57	8	9	0	1 2	2 3	4	5	67	8	9	0	1 2	2 3	4	5 (	57	8	9	0 1	2	34	15	6	78	9	0	1 8	2 3	4	5 6	7	8	9 0	9 5	SUBT	PCOV	PC	OM	HITS	FREQ	KEY
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STTH2			1						1												1																												7.5	0.2		0.6	3	1.5	Y
POSE 2	1		1	1 1	2 8	2 1	3	1				1	1 1	13	3	2	1	1 1	la	3	2	2 3	3 2	3	2	1 2	2 1	1	1	1 3	33	1	3															4	490.0	12.3	3	39.5	192	96	N
SIHY																										1																							2.5	0.1		0.2	1	0.5	N
BRTE										1	1	i					1																																10.0	0.3	;	0.8	0	0	N
рнно					1 1	1	1		1				:	1 1	L			1 1	1	1	1					i -																							32.5	0.8		2.6	1	0.5	N
PPFF	1											1 :	1 :	1 1	l 2	1						1	L			1			1			1																	40.0	1.0	1	3.2	100	50	N
ARAR8 1	2	2	1	3 ;	2		1	5	1	1	2					1	3	1 3	3 1		1	1	3	3	1	1 /	4	5		1 3	3	1	4	1	4	2	2	1		3	1 3	33	1	3	3	3	4 1	1 9	985.0	16.4	5	53.0	108	54	N
LTTR 1	1	2	1	2	2.1	1	3	3	2	1	4	1	1	1 1	1	1	3	4 3	3 1	. 1	1	2 1	1 2	1	1	2 3	33	4	2	1 1	2 2	1	4															6	675.0	16.9					N
BG 1	1	4	3	4	4 1	1 2	1	3	5	5	3	4	3 -	4	1	3	1	1	â	?	1	1	1 2	3	2	3 :	3 1	4	2	1	ι 3	5	2															10	090.0	27.3	}				N
ROCK 4	5	53	4	1	1 5	55	4	2	3	3	1	4	4	4 4	1 5	i 3	3	33	34	5	4	5 :	53	3	5	3	13	1	4	5 /	2 2	1	1															18	865.0	46.6	i i				N

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TOTALS

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5197.5 121.7 LIVE COVER TOTAL 30.9

# TULEDAD/HOME CAMP Monitoring System Condition/Trend Site

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Plot Number #2

Allotment j/a	11 Canyon E	ast Habi	tat Type <u>Antr</u>	- Stth - Sily
Location T_42	R <u>23</u> S <u>1</u> 3_1/16	th Store Date	Estab. <u>7-5-8</u>	3
Soil Olsor	<u>ı                                    </u>	Aspect <u>No</u>	r+4	Elevation <u>5680</u>
			Type of Slope (Circle One)	Uniform
Position on Slop	pe 2 (middle	R Factor	K Fa	actor
	1.8 miles Weill	· · · · · · · · · · · · · · · · · · ·		and the second
4	1. 5 mile Wall	Canyon Creek	0.1	and the second
		,		
PLOT LAYOUT:	Lung Socie	,	• 2 mile	
FLOI LATOUI.			-V	
	/			
			x - post	
			X	
	1		• .	- ye'eer

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= 1 2 3 4 5 6 ====== x	≭ # PCOM HIT	<b>≭</b> ===== TS FREQ KEY
	PCOM HIT	TO EDED VEV
SPECIES1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 SUBT PCOV		HO FREW NET
	*********	***********
STTH2 11 112 21121 11 121 1 1 111 100.0 2.5	10.2 4	42 21 Y
STED4 1 2.5 0.1		22 11 Y
SIHY 1 1 1 2 2 1 1 57.5 1.4	5.8 3	33 16.5 N
DRHY 1 2.5 0.1	0.3	7 3.5 Y
PONE3 0.0 0.0	0.0	9 4.5 Y
POSE 1 1 1 1 1 15.0 0.4	1.5 1	17 8.5 N
CAREX 1 1 1 1 1 1 1 1 1 1 22.5 0.6	2.3	0 0 N
A66L 11 5.0 0.1	<b>0.</b> 5	10 5 N
LUCA 1 1 5.0 0.1	0.5	5 2.5 N
ASTRA 1 2.5 0.1	0.3	6 3 N
DEGE 1 2.5 0.1	0.3	5 2.5 N
ASTER 1 2 2 1 1 1 40.0 1.0	4.1	3 1.5 N
TRMA8 1 1 7.5 0.2	0.8	0 0.0 N
PHL02 1 1 1 1 1 1 20.0 0.5	2.0	10 5.0 N
ANRD2 1 1 1 1 1 15.0 0.4	1.5	8 4.0 N
AAFF 1 1111 111111111111 1 111111111111	8.6 1	155 77.5 N
ARTRT 2 2 3 2 1 2 2 5 5 3 2 4 3 1 5 1 1 3 2 2 5 5 4 3 2 1 2 1 902.5 15.0		30 15 N
CHVI8 0.0 0.0		14 7 N
LTTR 12111213221111513431122131131111151131 1 607.5 15.2		N
BG 54455453344566151 3552351661555551653415 2440,0 61.0		N
ROCK 111111111111111111111111111111111111		N

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4420 102.9 LIVE COVER TOTAL 24.6

TULEDAD/HOME CAMP Monitoring System Condition/Trend Site Plot Number # 3 Allotment Wall Canyon East Habitat Type Artr - Sihy - Orhy Location T 42 R 23 S 35 1/16th NESE Date Estab. 7-5-83 (c/d plot) Soil <u>Clson</u> Aspect  $N \equiv$  Elevation 5500Uniform % Slope 3 Slope Length 300 F4 Type of Slope Convex (Circle One) Koncave) Position on Slope \_\_\_\_\_ R Factor \_\_\_\_\_ K Factor \_\_\_\_\_ This is an old plot, measuring 40×100 ft. Rebar was placed 10 H apart, four in a streight line and then 100 H width. · 6 miles to fork \* Pust - rebar PLOT LAYOUT: pilm van transpits tures ner

A windmill

TRANSECT #: 5422335	DATE READ: 830705		ALLOTHE	ENT NAME: Cottonwood	(Wall Canyon) # of Plots for FR	EQ: 200
		======QUADRAT	CANOPY COV	E R ===================================	<b>⋶</b> ⋽⋽⋨⋨⋨⋶⋓⋧⋏⋸⋨⋶⋽⋓⋶⋒⋻⋩⋶⋳⋸⋸⋓⋼ <del>⋠∦⋕⋕∦</del>	**********************
=	1	2	3	4	5 6 =====	==, % % # % =====
SPECIESI 2 3 4 5 6	7890123456	7890123456	78901234567	8901234567	8901234567890 SUBT	PCOV PCOM HITS FREQ KEY
*************	****************	*************	******************	*****************	**************************	*********************
ORHY 1					2.	5 <b>0.1 0.3</b> 7 3.5 Y
AGSM	1	1 1	1		10.	0 0.3 1.3 27 13.5 Y
SIHY	1 2		1 2		35.	0 0.9 4.7 43 21.5 N
PPFF	111111111	2221112112	22111111111	1 1 1	170.	0 4.3 22.8 184 92 N
AAFF 111111	112111111	1111121111	1 1 1 1 1 1 1 1 1 1 1 1	111	125.	0 3.1 16.8 181 90.5 N
ARTRW 1 1	12215	5 21 1121	1 3 3 4 4	15 2 3	111 233 605.	0 10.1 54.1 27 13.5 N
LTTR 112111	2231412112	21223122211	11115555535	141	525.	0 13.1 N
BG 454555	552515552	24441544455	55555222411	54	2410.	0 60.3 N
ROCK 312112	1112111111	1111 211111	11111 11111	5 5	202.	5 5.1 N

2

3

21.1

7

5 Kulte Vercali TULEDAD/HOME CAMP Monitoring System Condition/Trend Site ۶<sub>و</sub>د۴۲ Location T 41 R 24 8 06 1/100 NENW Date Estab. 7-11-83 Soil Saraph Aspect South west Elevation 5820 (Uniform 2 Slope 10 % Slope Length 1000 ft type of Slope Conver (Circle One) Concave Position on Slope Middle R Factor K Factor N 1 X-Post picture taken looking Down - rebar . I mile horthwest of spring PLOT LAYOUT:

Jeep Trail \_\_\_\_\_ Spring

5411/2231/231

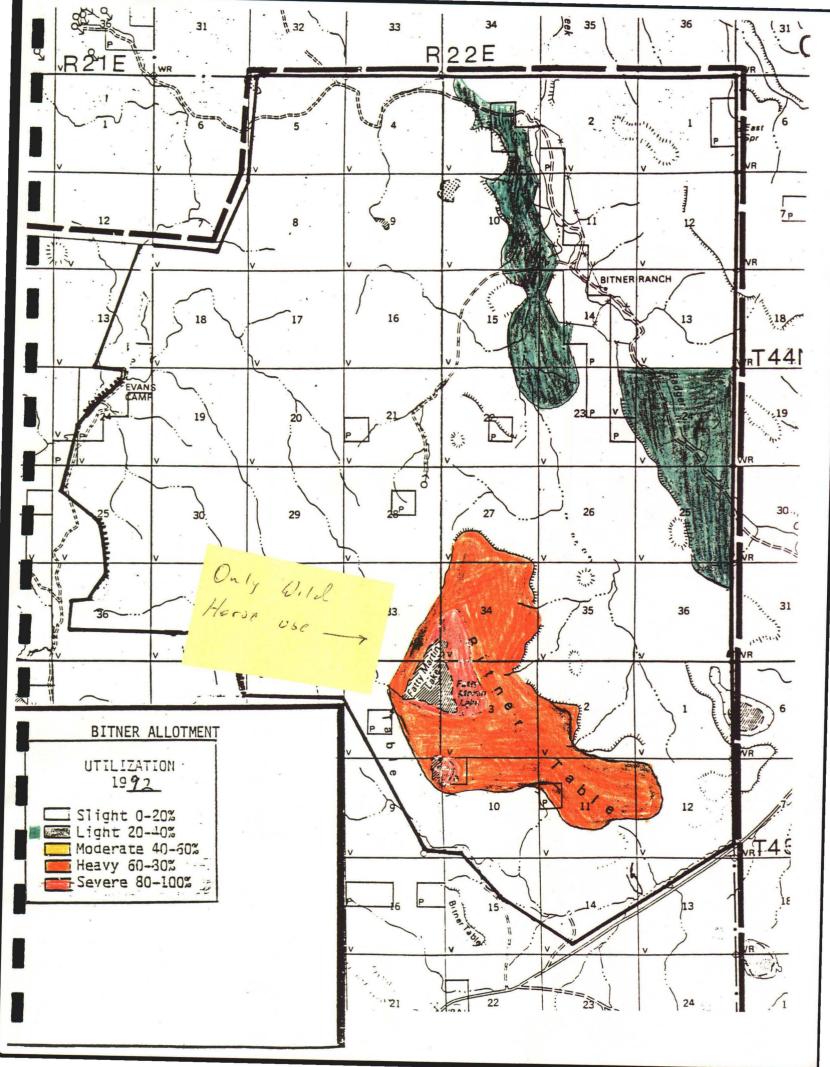
**'7**\*

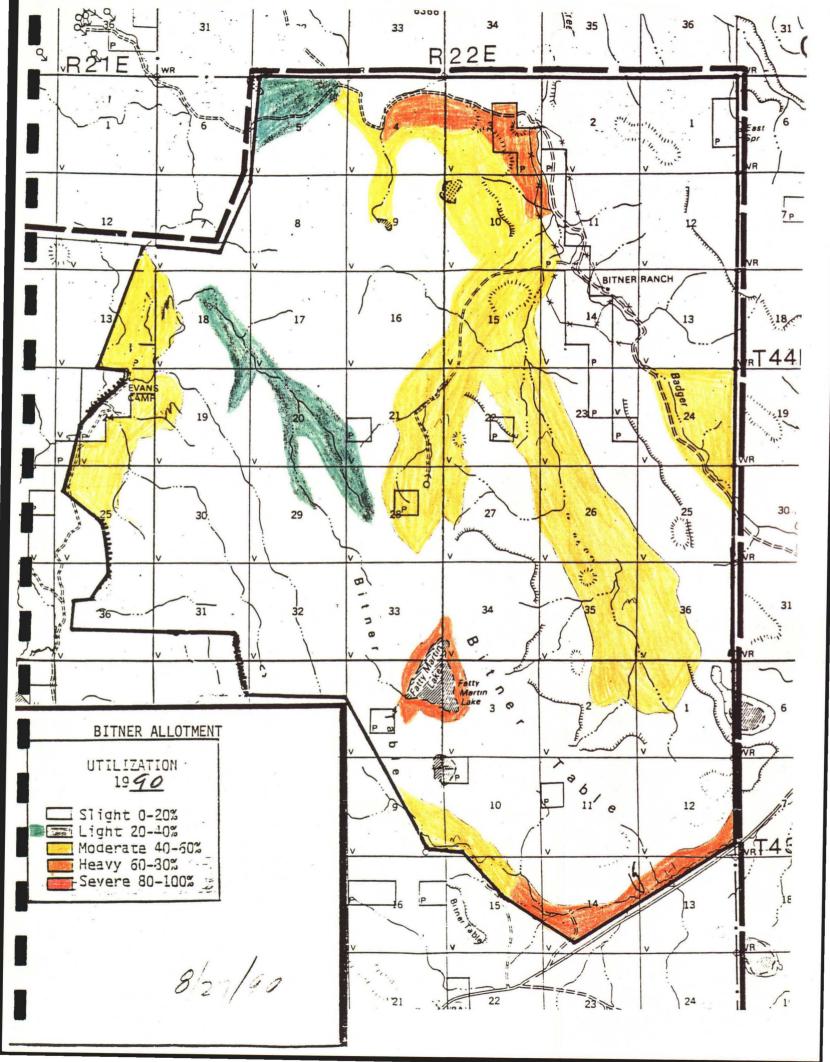
3

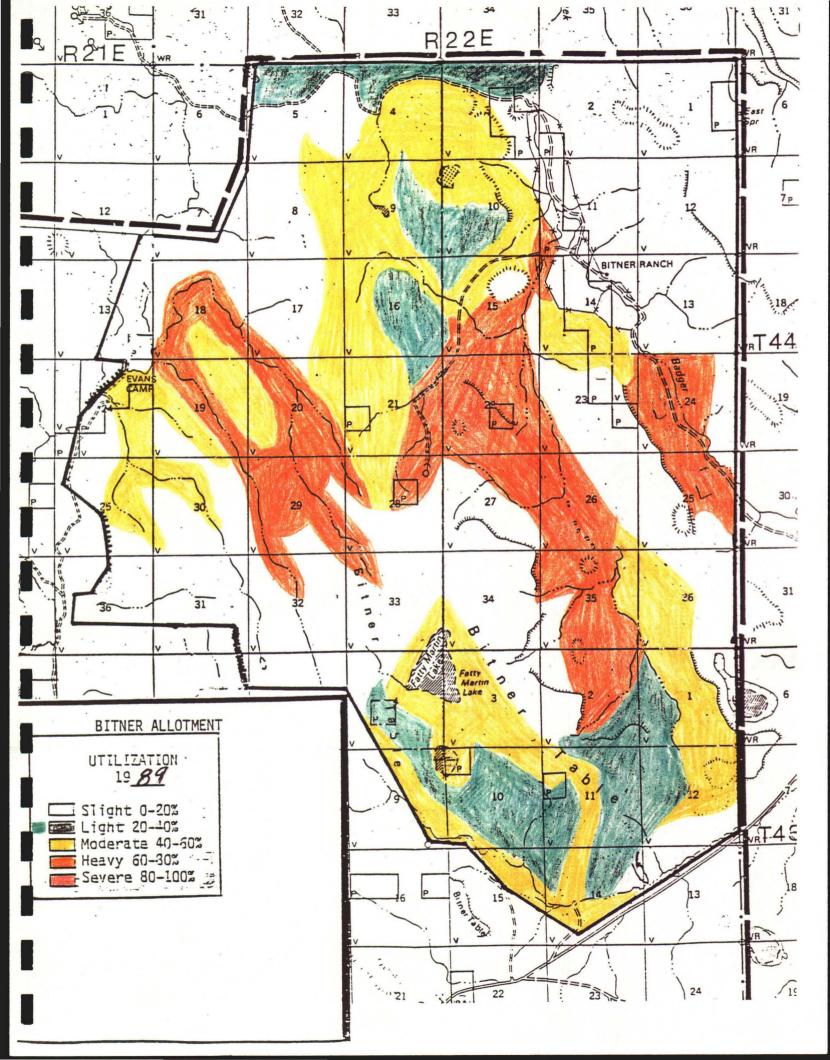
RANSECT			-		E													\ т		г	Λ Ι		n	v		с. С																ots		r FREQ	: 200	) 		*****		*****
122282222 :					1	÷								2 U	н	U	я <b>т</b>	11		C		ч u 3		r	Ľ	. 0	v		4							5	ت شت جاد من					_			***** %	-	***** *	*****' #	×××××	*****
SPECIES1	234	56	57	8 9	0	i	2	34	4 5	56	7	8	9	0 1	2	3	4 5	56	7	8	9 (	0 1	2	3	4 5	56	7	8 9	0	1 8	23	45	6	78	9	0	1 2	34	5	67	78	90	)	SUBT	PCOV	P	COM	HITS	FREQ	KEY
*******	*****	****	***	**I	i <b>t</b> ti	***	i # #	ŦŦ	**1	•••	**	#¥1	***	***	##I	itt	**	f##	**1	***	ŧŧ	HH	÷:	***	ŦŦI	ŧ##	l¥#	***	***	***	***	***	***	***	***	E##	***	****	•**•	***1	t # # f	****	i##	*****	****	**	****	*****	*****	*****
STTH2											i	5													1	L																		20.0	0.5	5	2.3	4	2	Y
SIHY					1	1		1	1 1	l							1					1					2	i																35.0	0.9	}	4.1	46	23	N
POSE 2									:	1	1							1	i			1			1	1		1	1															37.5	0.9	}	4.4	29	14.5	N
ORWE								2						1								1			1	1																		22.5	0.6	5	2.6	5	2.5	iΥ
BRTE	1						1		1 :	i	1			1				1																										17.5	0.4	•	2.0	87	43.5	N
ASTER 1	112	1		1	l		1		1	1 1	1	1		1 1	1		1	1		1								1 1																65.0	1.6	<b>5</b> .	7.6	126	63	N
PHLO2	112	11	1	1	11	1	1	1	1	1 1	l	1		1 1	l	1	1	1 1		1	1				1			1																77.5	1.9	3	9.0	104	52	! N
Astra					l									Í	l	1										1																		10.0	<b>0.</b> 3	3	1.2	16	8	I N
CRAC2	1		1							1								1		1	1	1		1																				20.0	0.5	õ	2.3	10	5	i N
ERIOG	1	1	l																																									5.0	6.1	L	0.6	0	0	N N
luca																				1																								2.5	0.1	l	0.3	5	2.5	i N
AAFF 1	111	1 1	11	1	11	1	1	1	1	1	1	1	1	1 1	1	1	1	1 1	. 1	1	1	1 1	1	1	1	1 1	1	1 1	11															97.5	2.4	4	11.3	200	100	) N
ARTRW 2			2			2		4			5	2			1			3	\$			4 1	L		4	4	3	2		í	23			3	2	3		1		3	5	1	1	675.0	11.3	3	52.3	28	14.0	) N
LTTR 2	113	11	11	1	1 1	1	1	2	1	3 1	1 1	1	i	1	1 2	1	2	1 1	. 1	1	1	1 1	1	1	1	1 1	2	1 1	1 2															245.0	6.1	L				N
BG 2	132	2 2 8	5 5	3	23	1 2	5	2	5	23	34	3	1	1	34	4	3	33	1	1	3	2 8	23	; 4	2	3 1	2	34	43														1	077.5	26.9	9				N
ROCK 3	533	344	44	4	44	4	4	1	4	24	4 2	23	5	5	31	2	3	4 3	3 5	i 5	3	24	+ 3	12	2	31	2	3 8	2 2														1	730.0	43.	3				N

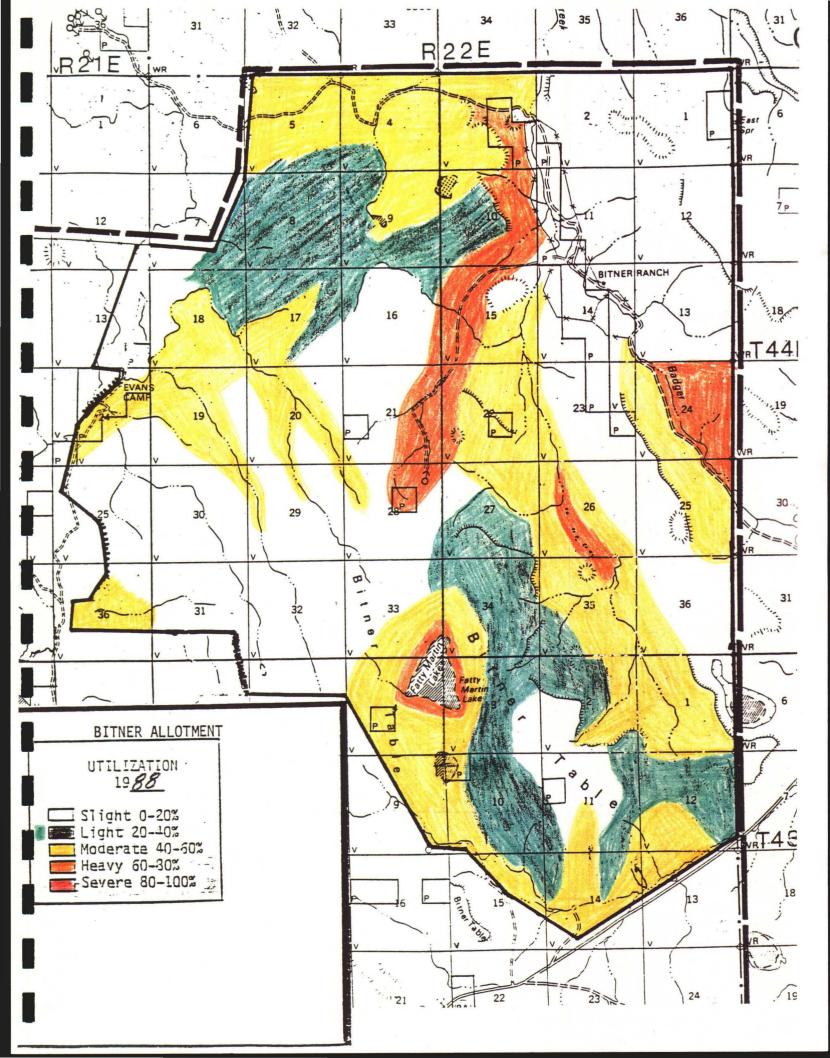
2

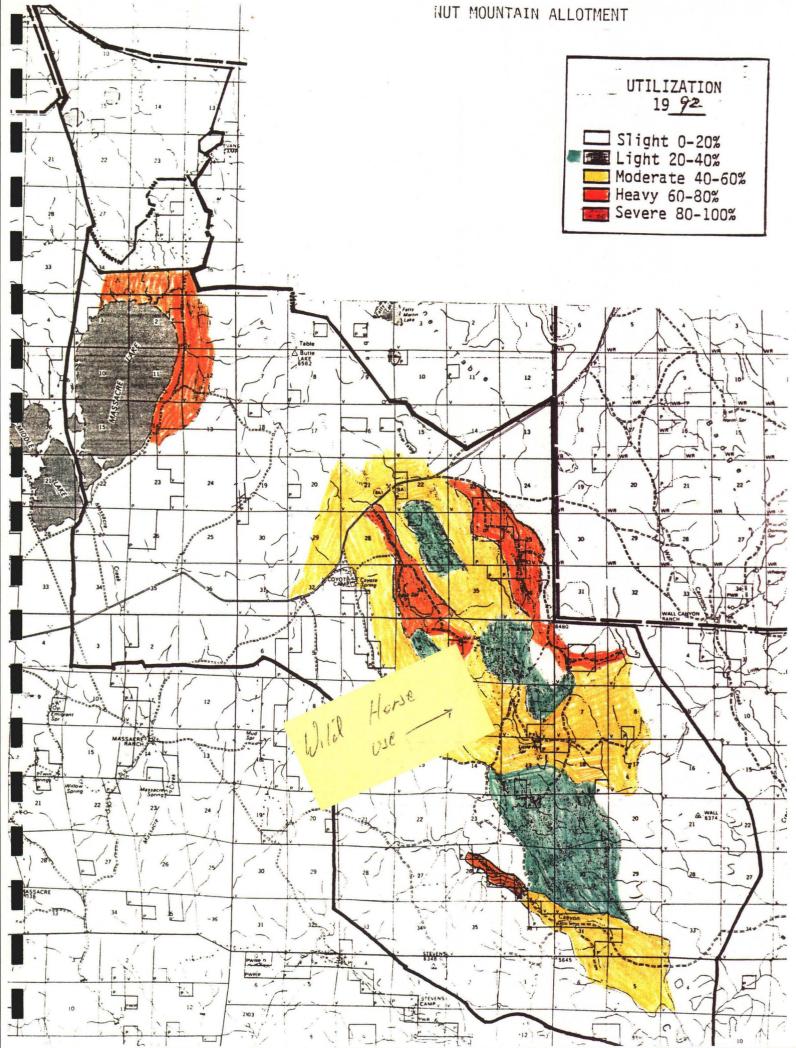
 $(2 \leq 3)$ 

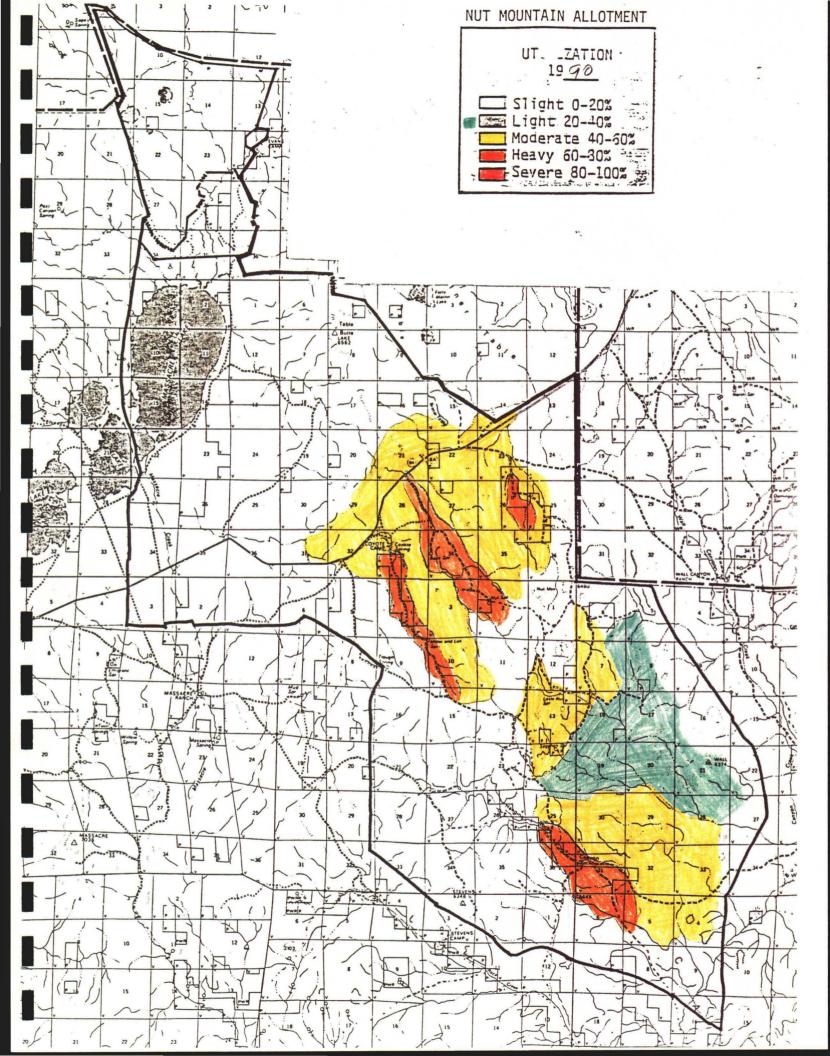


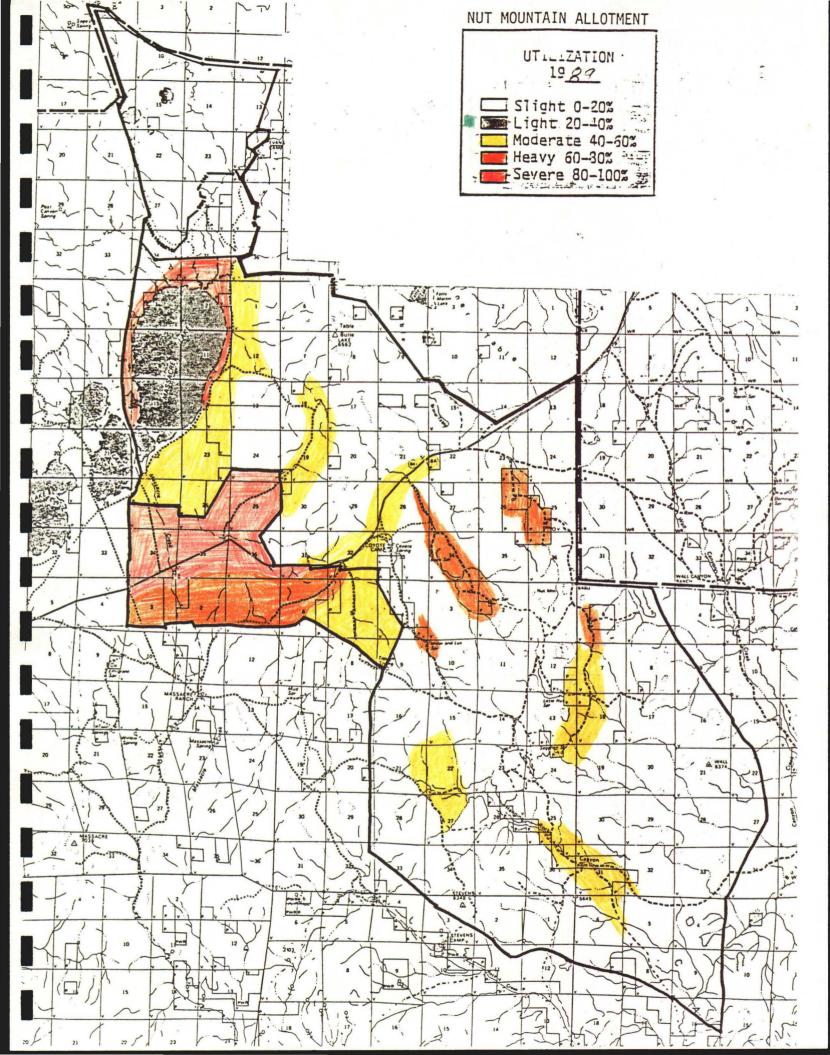


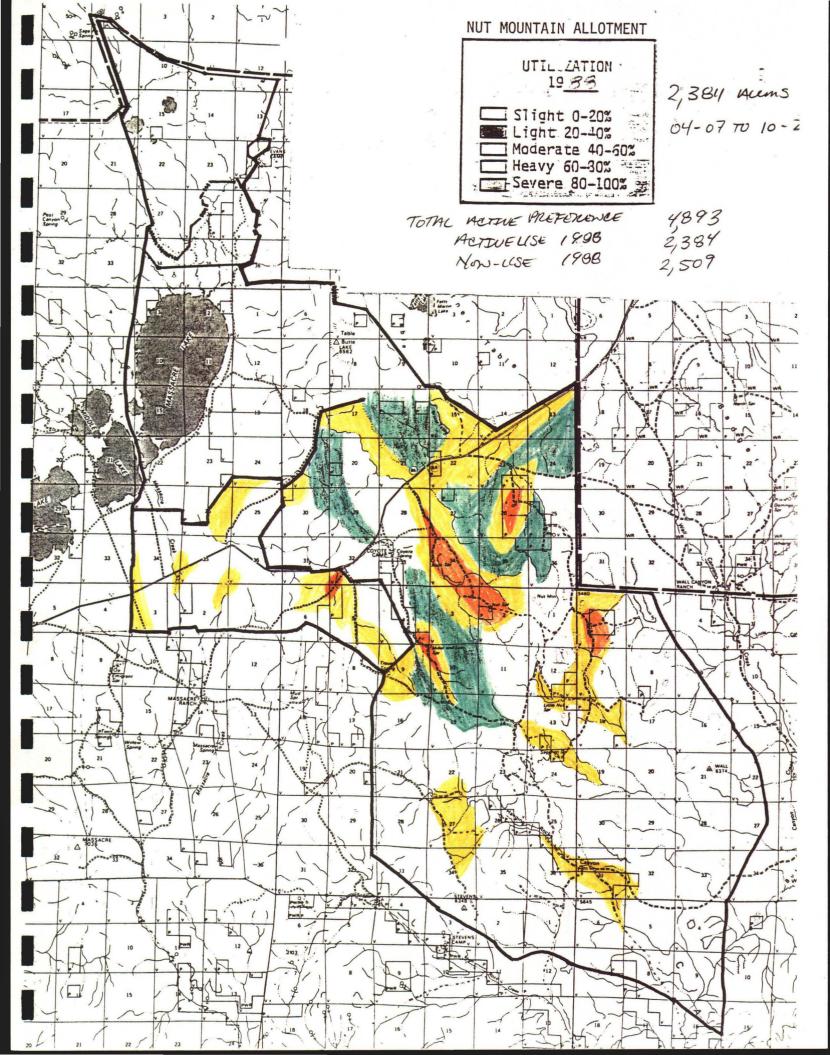


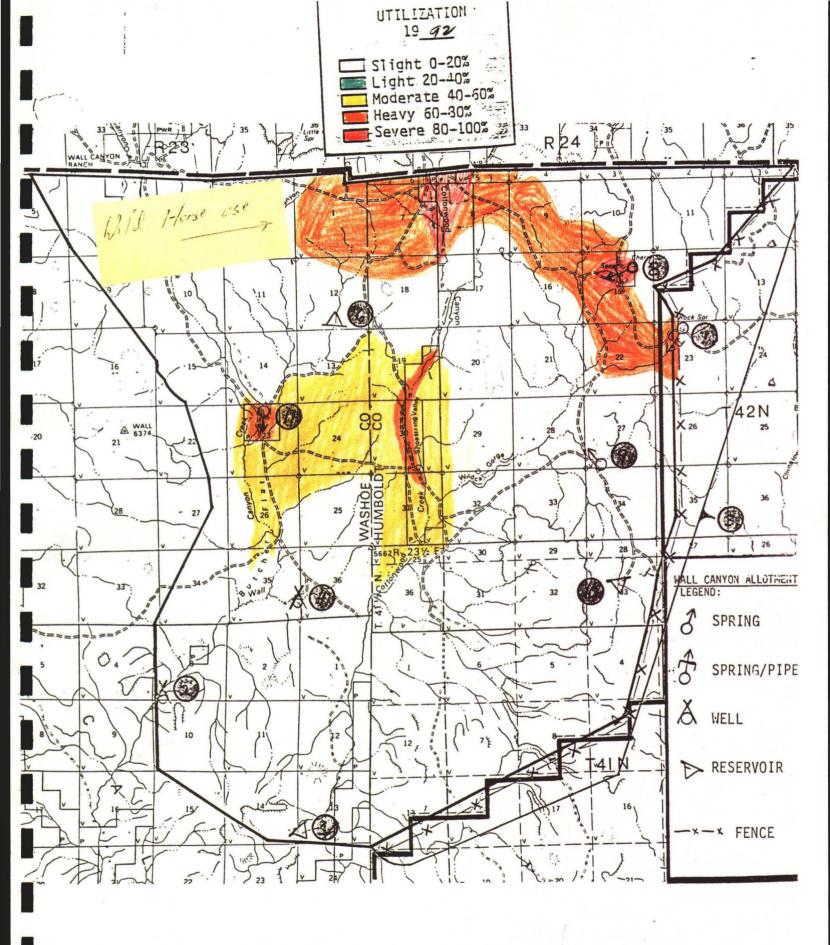










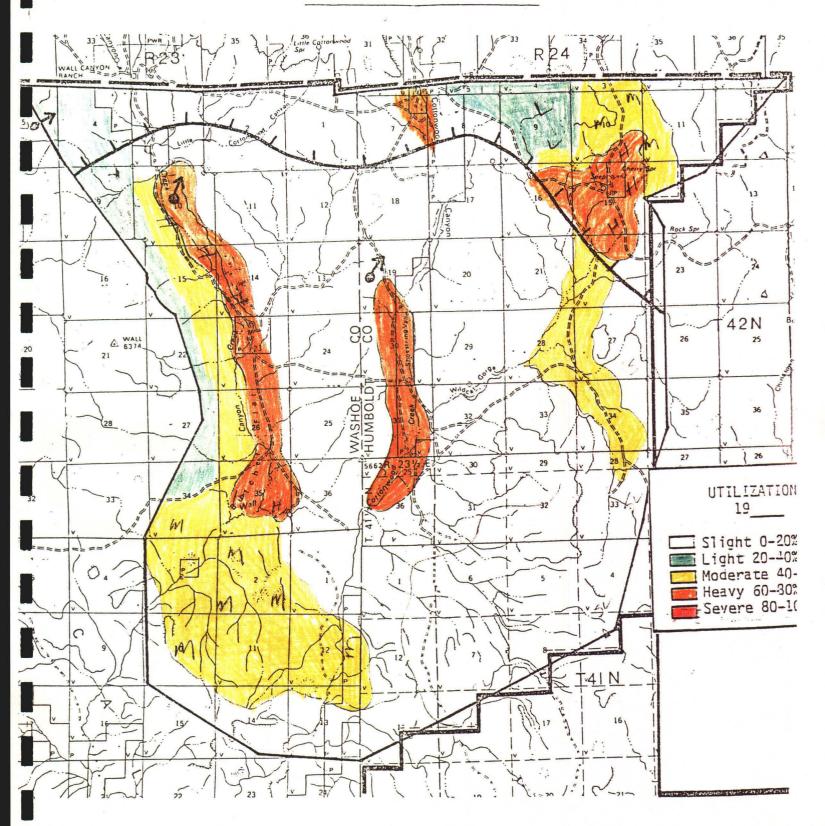


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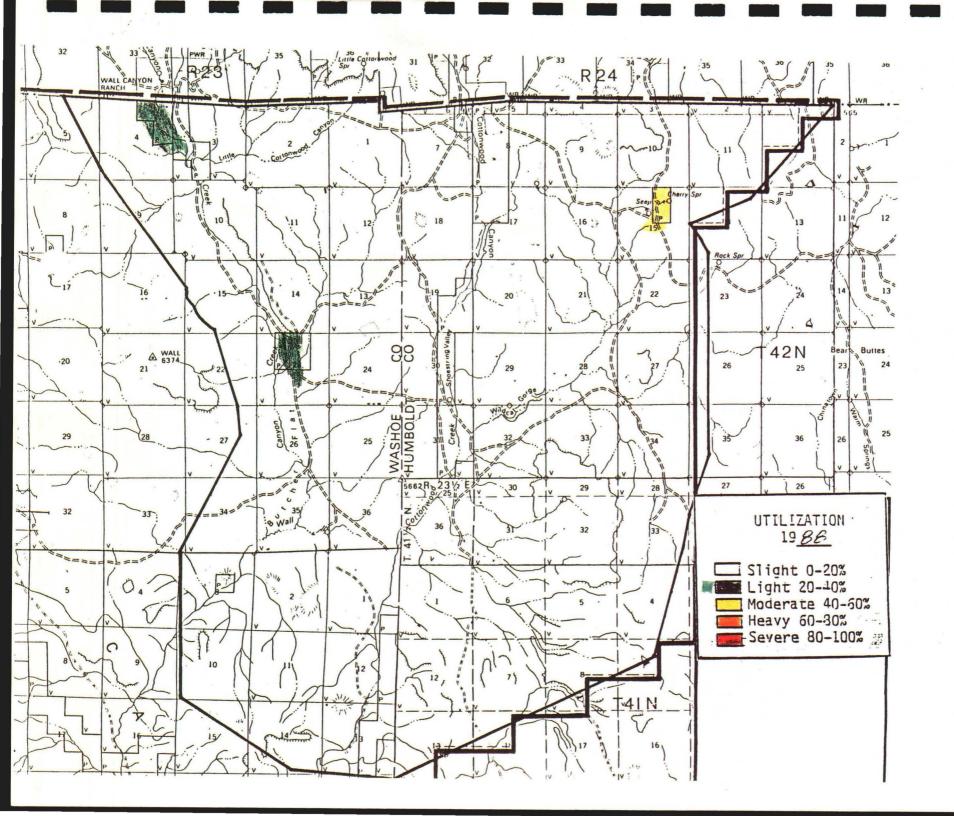
J

# WILDLIFE AND WILDHORSE VALUES



Entire allotment is yearlong <u>antelope</u> range. Entire allotment is Wall Canyon <u>Wildhorse</u> HMA.

9/28/90



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# **APPENDIX 6**

# 1988-1992 ACTUAL USE REPORTS

# BITNER, NUT MOUNTAIN, AND

# WALL CANYON (EAST) ALLOTMENTS

# IN THE

BITNER, NUT MOUNTAIN, AND WALL CANYON HMAS

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

### ACTUAL GRAZING USE REPORT

Dear Sir:

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete this form and return to the Resource Area Office within

15 days after completing your authorized grazing use (43 CFR 4130.6-2(d)). This information, along with other studies data, is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn live-stock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreciated.

Allotment Bitner Allo	otment				FOR	BLM USE	ONLY	
	ACTUAL GRAZ			CA		N OF AUM	SGRAZING	USE
PASTURE	$\begin{array}{c} \mathbf{DATE} \\ (Mo - Day - Yr.) \end{array}$	CLASS OF	ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE- STOCK	L	G PERIOD	% PL USE	AUM'S
		TURNED IN	TAKEN OUT	STOCK	BEGIN	END		<b> </b>
Bituer	15 apri-	300		300	4/15	5/17	10070	325
	18 May		120	180	5/18	5/19	100%	12
	20 May		100	80	5/20	5/22	10070	8
	22/2/104		80					
Bitta	4/2	60		60	8/2	3/1	1007	6,
J. J. LAME	0/1	60	60			1041	Use	406
						vie F	ret.	1702
				Actual		23.9%		eterenu
							ßΔ	116/92
								/
	_							
	_							
I CERTIFY That this is Signature of Permittee/L		$\rightarrow 10$	24		T	Date 9	14/	91
		on la	Tot			/_	<u>· / / ·</u>	

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

FORM APPROVED OMB NO. 1004-0051 Expires: October 31, 1991

#### ACTUAL GRAZING USE REPORT

Vienagement GR#042616 ot Land Sch 1

Dear Sir:

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete this form and return to the Surprise Resource Area Office within

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OCT 2

15 days after completing your authorized grazing use (43 CFR 4130.6-2(d)). This information, along with other studies data is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn live-stock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreciated.

Allotment								
Bitner #1	006			<u> </u>		BLM USE		
<u></u>	ACTUAL GRA	ZING USE			LCULATIO	N OF AUM'S	SGRAZING	USE
PASTURE	<b>DATE</b> (Mo., Day, Yr.)	CLASS OF	ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	GRAZIN	G PERIOD	% PL	AUM'S
Aui		TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE	
Betner	4/15	138	, 	138C	04/15	04/16	100 %	9
<u> </u>	4/17	81		219C	04/17	04/17	100 %	7
<u> </u>	4/18	33		257C	04/13	04/22	100 02	41
	4/23	15		267 C	04/23	04/29	100 20	61
	4/30	9		276 C	04/30	07/07	1002	626
	Total	276		129 C	07/08	07/08	100 %	4
out.	7/9		147	92 C	07/09	07/09	100 %	З
	7/9		37	28 C	67/10 (6	07/15	100%	6
	7/10		64	107C	03/14	1%3	100%	179
	7/15		28	21 C	10/04	10/03	100%	3
	/							
- Min				TOTAL	AcTEU	E PRE	Excer	1, 703
1	8/14	107		ACTE		E 19	7/	939
	/			1000-	- LESE	- 198/		763
out 7	10/3		\$6	45 9	Now	GE-		
	10/8		21	5				
10/24/91 aug	/							
I CERTIFY That this is a	complete and acc	curate report of my	grazing use.					
Signature of Permittee/Lea	is sector	m mor	H			Date /ð	1221	91
Title 18 II S.C. Section 100	)1 makes it a cri	me for any neson	knowingly and wi	Ufully to ma	ke to any d	enartment	a and a st	the United

States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

	مەدەرىي :	RECEIVER	
Form 4130—5 (August 1983)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT ACTUAL GRAZING USE REPORT	JUL 3 1 1990 eau of Land Management farville, CA 96104	FORM APPROVED OMB NO. 1004-0051 Expires: January 31, 1986

Dear Sir:

GR#042616

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete this form and return to the Resource Area Office within

Is days after completing your authorized grazing use (43 CFR 4120.2-2(d), 4120.2-3(e), and 4130.5-1(e)). This information, along with other studies data, is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn livestock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreciated.

Allotment <u>Bitner</u> #	1006				FOF	R BLM USE	ONLY	
·····	ACTUAL GRAZ	ING USE		CA		N OF AUM'	SGRAZING	USE
PASTURE	<b>DATE</b> (Mo., Day, Yr.)		ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	GRAZIN	IG PERIOD	% PL	AUM'S
		TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE	
	4/13	40		40c	04/13	04/13	100%	ļ
<b>.</b>	4/14	40		80 C	04/14	04/14	100%	
·	4/ 15	49		129 C	04/15	04/15	100 %	7
	4/16	88	,,,,,,,,	217 c	04/16	04/16	100%	7
	4/17	48	 	265 C	04/17	04/19	100 2	26
·	4/50	100		365C	04/20	05/10	100 %	252
	57.11	140		505C	05/11	0411	100%	531
		506		390 C	06/12	06/27	100%	205
	6/11		115	225 C	06/28	07/03	100 %	44
	6/27		16.5	104C	07/04	07/20	100000	58
	7/3		12/	` 	<i>l</i>			
	7/20		103	TOTAL A	cracé l	REFERENCE	CE	1.702
			504	ACTIVE	LISE	1990 6	796)	, []3/
				Non Ca	E 199	0	3.90)	57/
<u></u>				any of	31/90			
CERTIFY That this is	a complete and accu	irate report of my	grazing use.					
Signature of Permittee/I	Leassee	Don (	ochi			Date 7/	29/	90

Form 4130-5 (August 1983)

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

### ACTUAL GRAZING USE REPORT

Dear Sir:

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete the form and return to the Surprise Resource Area Office with 15 days after completing your authorized grazing use (43 CFR 4120.2-2(d), 4120.2-3(e), and 4130.5-1(e)). This information,

along with other studies data, is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn livestock in or take livestock out of an allotment or pasture. Your cooperation in providing accura information will be appreciated.

Bitner #	1006				FOR	BLM USE	ONLY	1
	ACTUAL GRAZ	ING USE		CA	LCULATIO	N OF AUM'S	GRAZING	USE
PASTURE	DATE (Mo., Day, Yr.)		ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	GRAZIN	G PERIOD	% PL	AUM'S
	(1101, Duy, 111)	TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE	l
	4/13	185		185C	04/13	04/13	100%	6
	4-14	14/		326C	04/14	04/14	100%	/
	4-15	93		419 C	04/15	04/15	100%	14
	4-16	101		5200	04/16	04/18	10020	5/
·····	4-19	86		606 C	04/19	07/00	too a	1,534
······································	7-4		85	521 C	07/1	07/13	200,00	154
	7-13		218	303 C	07/14	OT ST	100 %	40
	7-17		185	118C	07/10000	07/23	100 %	23
	7-23		90	28 C	07/24	07/26	100%	3
	7-26		19					
				TOTAL	ACTIV	- Peter	ence	1,702
				ACTO	VE US	E 198	9	1 702
n .				T	NR U	SE 198	9	/34
							.1.2	
				×				•
CERTIFY That this is	a complete and acc	urate report of my	grazing use.					
ignature of Permittee/I	Leassee	Don	foots	Ľ		Date 9/	1+   8	9
itle 18 U.S.C. Section tates any false, fictitic	1001, makes it a cri ous, or fraudulent sta	me for any person atements or repres	knowingly and wi entations as to an	illfully to ma ny matter with	ke to any d	epartment o liction.	r agency of	the United

Form 4130-5 (August 1983)

RECEIVED UNITED STATES DEPARTMENT OF THE INTERIOR ACTUAL GRAZING USE REPORT BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0051 Expires: January 31, 1986

Dear Sir: In accordance with the terms and conditions of the permit or lease which Carporizes which Carporizes your grazing use, please complete this Resource Area Office within

AUG 1 6 1988

15 days after completing your authorized grazing use (43 CFR 4120.2-2(d), 4120.2-3(e), and 4130.5-1(e)). This information, along with other studies data, is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn livestock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreciated.

BITA	IER #	1006			FOR	BLM USE	ONLY	
	ACTUAL GRAZ	ING USE		CA		N OF AUM'S	GRAZING	USE
PASTURE	<b>DATE</b> (Mo., Day, Yr.)	CLASS OF	ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	L	G PERIOD	% PL	AUM'S
		TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE	
Bitner	4/10	122		122C	<sup>c4</sup> /10/88	04/11/5	100	8
10	4/11	79		2010	04/12/08	04/13/2	100	13
<u> </u>	4/13	102		303C	al/14/94	04/1573	100	20
	4/15	18/14		464C	04/16/88	ai/18/53	100	46
	4/19	99		563 C	04/19/93	07/07/99	100	1,483
	7/7		92	4716	07/08/88	07/10/88	100	47
<u> </u>	7/10		185 15	306C	0711/83	Nr/93	100	20
(!	7/12		125	1810	07/12/83	<sup>07</sup> /15/93	100	18
/(	7/45		105	81C	7/16/93	07/23/90	100	35
	7/28		80					
	,			TOTAC	Acre	E PACTER	DRE	1,702
				Act	WE L	'SE 198	78	1,690
				Non	USE	198B		12
						<u></u>	Ver 1	<u></u>
I CERTIFY That this is a	complete and case	urate report of m	מיים אלוות ווויבא					
Signature of Permittee/Lea		Dan	ant	1		Date <b>8</b>	- 15	-[8\$
Title 18 U.S.C. Section 100	01, makes it a cri	me for any person	knowingly and wi	llfully to ma	ke to any d	lepartment of	r agency of	the United

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0051 Expires: October 31, 1991

### ACTUAL GRAZING USE REPORT

Dear Sir:

In accordance with the terms and conditions of the permit or lease which and when form and return to the

orizes your grazing use, please complete this Resource Area Office within

FOR BLM USE ONLY

15 days after completing your authorized grazing use (43 CFR 4130.6-2(d)). This information, along with other studies data is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn live stock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreci-School 2 ated.

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SEL

Allotment Nut Mountain

	ACTUAL GRAZ	ING USE		СА	LCULATIC	N OF AUM'S	GRAZING	USE
PASTURE			AND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	GRAZIN	G PERIOD	%. .PL	AUM'S
	(30) $(00)$ $(10)$	TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE	
Mountain	4/16	10B 248C		258	41.6	4/17	100	17
	4/18	5B 296C	2 c dead	,559	4/18	7/15	100	1636
·····	7/16		41C	516	7/16	815	100	356
	8/4		41C	415	816	8/10	100	78
	8/11		1 B 7 C	467	8/11	8/13	100	46
	8/14		63C 39C	404	8/14	8/17	100	53
	8/18		13	364	8/18	8/20_	100	36
	8/21		3 dead	356	8/21	E/23	100	35
	8/24		43C	310	8/24	8/31	100	82
	9/1		28	193	9/1	9/2	100	/3
	9/3		9B	85	7/3	9/7	100	14
	9/8		442	40	9/8	9/14	100	9
N	9/15		39C		7/15	10/1	100	/
	10/1		1 C.					2,376
Lake	4/22 9/10	70C	42C	70	4/22	9/9	100	324
	9/24		24 C	28	9/10	9/23	100	
	10/1		4C	4	9/24	10/1	100	$\frac{1}{33}$
I CERTIFY That this is Signature of Permittee/L		arate report of my	/ grazing use.			Date 101	18/92	$\frac{2}{2}\left(\mathcal{C}^{\prime}\right)$
Title 8 U.S.C. Section 1 States any false, fictitio	1001, makes it a crimus, or fraudulent sta	ne for any person tements or repres	n knowingly and wi sentations as to ar	llfully to ma ny matter with	ke to any o hin its juris	department o diction.	r agency o	f the United

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

FORM APPROVED OMB NO. 1004-0051 Expires: October 31, 1991

#### ACTUAL GRAZING USE REPORT

GR#042640

Sch 2

Dear Sir:

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete this form and return to the Resource Area Office within

15 days after completing your authorized grazing use (43 CFR 4130.6-2(d)). This information, along with other studies data, is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn livestock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreciated.

Allotment								
Nut Mount	ain #1010				FOR	BLM USE	ONLY	
	ACTUAL GRAZ	ING USE			LCULATIO	N OF AUM'S	GRAZING	USE
PASTURE	DATE (Mo., Day, Yr.)		ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	GRAZIN	G PERIOD	% PL	AUM'S
<del></del>		TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE	ļ
	4/24	406		225C	04/26	09/25	100 %	1,132
	4/24	225		4doc	04/24	10/17	100%	2,363
•==	9/25		225	319 C	10/18	191B	100 20	10
·	10/28		390	164C	10/19	10/21	100%	16
	11/7		12	7/c	10/2Z	10/22	100 20	<u></u>
			<u></u>	16C	19/23	11/17	100 %	14
				87c	19/17	10/17	100%	3
				242 C	19/13	1/20	100%	24
ToTAL ACTURE	PRIFERENCE	= 4,893		335 C	1/21	10/21	100 3	//
ACTIVE LISE	- 1991	3,665	-	390 C	10/22	10/23	100 20	90
Non-LEE	1991	1, ZZB						
_25% No	W-LISE A	9		USEB	Y PAST	THE		
		,		CALVA	ef Com	Secher	4	1,132
				Marit	tow has	TURE		2,405
			,	Suke	Field	1		128
1/18/91 amy								
I CERTIFY That this is a	complete and acc	urate report of my	grazing use.	- <u>A</u>		<u></u>		
	sens Konch	Inc By	hn B.	alaqu		Date hor	محمدي والمحاف بشبانية تتلتب التحجيب فك	the second s
Title 18 U.S.C. Section 10 States any false, fictitious	001, makes it a criss, or fraudulent sta	me for any person atements or repres	knowingly and wi entations as to ar	illfully to ma ny matter with	ke to any d hin its juriso	lepartment o liction.	r agency of	the United

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

ACTUAL GRAZING USE REPORT

007	OMB NO. 1004-0051 <sup>-</sup> Expires: October 31, 1991
OCT 29	3R# 0/2640
Burenu of Lor historogement	Sey 2

Date

Dear Sir:

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete this form and return to the Resource Area Office withi

15 days after completing your authorized grazing use (43 CFR 4130.6-2(d)). This information, along with other studies data is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn livestock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreciated.

Allotment

Anothent			FOR BLM USE ONLY					
	ACTUAL GRA	ZING USE		CA	LCULATIC	N OF AUM'S	GRAZING	USE
PASTURE	$\begin{array}{c} \mathbf{DATE} \\ (Mo - Dax - Yr.) \end{array}$		ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	GRAZIN	IG PERIOD	°℃ PL	AUM'S
<u> </u>		TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE	
HANGEN'S Rock	04/14	412		41 Z C	04/14	04/18	100%	68
11 (1	04/19	239		651 C	04/19	05/15		578
1/ 1/	05/15		412	239 C	05/16	05/20		39
11 11	05/20		239	65 C	04/26	06/30		141
Upper FIETD	04/26	65		65 C	07/01	08/15		98
LIPPER FEELD	06/30		65	214 C	09/16	10/17		443
Masane Lakes	07/01	65		412 C	05/16	05/20		68
MounTATA)	05/16	412		651 C	05/21	08/15		1,862
Mountinin	05/21	239	 	502 C	08/16	09/16		528
Morentran	08/15		149	394 C	09/17	A/18		24
MAGACHE LAKE	08/16	149		382 C	9/19	09/28		126
MorenTATEN	09/16		108	366 C	09/29	10/05		84
" //	09/18		12	237 C	10/06	10/09		31
17	09/28		16	133 C	10/10	10/11		9
11	10/05		129	84 C	10/12	1913		6
11	10/09		104	74 C :	1914	19/15		5
11	10/11		49	63 C	10/16	10/19	$\checkmark$	8

I CERTIFY That this is a complete and accurate report of my grazing use.

Signature of Permittee/Leassee

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

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

	·
RECEIVED	
OCT 2	FORM APPROVED OMB NO. 1004-0051 Expires: October 31, 1991
Survey of the strong of the st	•

### ACTUAL GRAZING USE REPORT

Dear Sir:

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete this form and return to the Resource Area Office within

15 days after completing your authorized grazing use (43 CFR 4130.6-2(d)). This information, along with other studies data, is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn livestock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreciated.

Allotment	· · · · · · · · · · · · · · · · · · ·					FOR BLM USE ONLY				
	ACTUAL GRAZ	ING USE	·····	CA	LCULATIO	N OF AUM'S	SGRAZING	USE		
PASTURE	<b>DATE</b> (Mo., Day, Yr.)		ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	GRAZIN	G PERIOD	% PL	AUM'S		
		TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE			
MorenTATA	10/13		10	18 C	10/20	10/26	100 2	4		
10	10/15		11					4,124		
MASSACE LANCE	10/17		214							
MorenTAT	10/19		5							
11	10/20		45	TOTAL	AcTUR	PREFE	EENCE	<u> 4,893</u>		
	14/26		9	ACT	FUE L	SE 19	20	4,12.4		
. <u></u>				Nor	s- Llse	= 109	0 (16%)	769		
				USE	BY 1	PASTUR	E 19	0		
				Hmx	TING	Rock	-	685		
				Uppe	r Fie	20		141		
				MAS	SACKE	LAKE	3	541		
				Moo	a)TA	FN		<u>2,757</u>		
								·		
<b></b>										
				11/01/90	ame					
I CERTIFY That this is a		arate report of my	grazing use.			Date				
Signature of Permittee/Le	assee					Date				

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# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ACTUAL GRAZING USE REPORT

	RECEIVED
	<b>OCT 2</b> 9 6 1
Bi C	reau of Lond Contention darville, CA SetCal

FORM APPROVED OMB NO. 1004-0051 Expires: October 31, 1991

### Dear Sir:

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete this form and return to the **Resource Area Office with** 

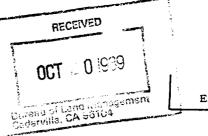
15 days after completing your authorized grazing use (43 CFR 4130.6-2(d)). This information, along with other studies dates is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn livestock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appred ated.

Allotment

Nut Mount	Nut Mountain #1010				FOR BLM USE ONLY						
	ACTUAL GRAZ	ING USE			LCULATIO	ON OF AUM'S	GRAZING	USE			
PASTURE	$\begin{array}{c} \mathbf{DATE} \\ (M\alpha - Dax - Yr_{\alpha}) \end{array}$		AND KIND OR LIVESTOCK	NO. AND KIND OF LIVE- STOCK	GRAZIN		7 PL USE	AUM'S			
Nelt Mountain	4-14-90	4/2		412c	1	s) 04/18	100%	6			
	4-19-90	239		65/C	04/19	01/25	(	150			
	4-26-90	65		716C	04/26	09/16		3,39			
· · · · · · · · · · · · · · · · · · ·	9-16-90		108	608	09/17	09/18		40			
·	" 9-18-90		12	596	09/19	09/28		19			
L	"9-28-90	· · · · · · · · · · · · · · · · · · ·	16	580	09/29	10/05		137			
	" 10-5-90		129	451	10/06	10/09		51			
()	"10-9-90		104	347	10/10	2) 10/11		2			
ı t	" 10-11-90		49	298	10/12	(9/3)		20			
<b>،</b> د	"10-13-90		10	283	19/14	10/15		/			
<u> </u>	11 10-15-90		1/	277	10/16	10/17		18			
۱	1 10-17-90		214	63	10/19	10/19					
L N	"10-19-90		5	5B	10/20	14/20					
	"10-20-90		45	13	10/21	19/26	$\mathbb{V}$	Ĩ			
-	"10-26-90		9					4			
				٠.							
I CERTIFY That this i	s a completerand acc	urate report of m	y grazing use.								
Signature of Permittee	) //a	que				Date 10.	- 27-	. 90			
Title 18 U.S.C. Section States any false, fictiti	n 1001, makes it a cri ious, or fraudulent st	me for any person atements or repre	n knowingly and was sentations as to a	ilifully to many matter wit	ake to any hin its juris	department o diction.	r agency of	the Unite			
(Continued on recerse)											

Form 4130-5 (August 1983)

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



2640 FORM APPROVED OMB NO. 1004-0051 Expires: January 31, 1986

ACTUAL GRAZING USE REPORT

Dear Sir:

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Nut Mount	ain #1	1010			FOR BLM USE ONLY						
		ACTUAL GRAZ	ING USE		CA		N OF AUM'S	GRAZING	USE		
PASTUR	E	<b>DATE</b> (Mo., Day, Yr.)	NUMBER A CLASS OF	ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	GRAZIN	G PERIOD	% PL	AUM		
			TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE			
Cvacy Can	vp	04/15	430		4/30C	04/15	04/16	100%	28		
11 11		04/17	114		544 C	04/17	04/19	160%	54		
1. 4		04/20	113		657C	04/20	04/24	100 %	109		
11 11		04/25	54		711C	04/25	04/27	100%	70		
11 11		04/28	23		734 C	04/28	04/30	10000	70		
11 1	/	05/01	25		759C	05/01	06/30	100%	152		
		0430		759	259C	07/01	09/27	100%	15		
IT PISTO	ne	07/01	500		500C	07/01	09/27	1000	14%		
whe Field	<u></u>	07/01	259		387 C	09/28	10/11	100%	17		
ahe Fild	1	09/27		259	219C	IdIZ	10/13	1000	1		
UT. PAS	RUE	09/27		11 1	79C	10/14	10/18	1002	13		
( ( (		10/11		170	5ZC	10/19	10/19	100%	2		
1, 1,		10/13		140	43 C	10/70	10/22	100%	4		
·	,	10/13		27							
11 1	/	10/10		9	JOTHE M	TAE M	REFERO	DE	489		
1	,	10/27		34	TOTAC	. Hette	E Lls	- 1989-	- 4,z		
<u> </u>		]			Now		190-9	•	6		
			urate report of my	grazing use.	129	To REAN -	USE				
gnature of Perm	ittee/Lee	see V	lag	1 2			Date				

Form 4130-5 (August 1983)

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

#### FORM APPROVED OMB NO. 1004-0051 Expires: January 31, 1986

ACTUAL GRAZING USE REPORT

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Allotment					For			
Nut M	OUNTATN	#1010		ļ	FUR	BLM USE		
	ACTUAL GRAZ	ZING USE	. <u></u>		LCULATIO	N OF AUM'S	GRAZING	USE
PASTURE	<b>DATE</b> (Mo., Day, Yr.)	CLASS OF	ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	ļ	G PERIOD	% PL USE	AUM'S
		TURNED IN	TAKEN OUT	STOCK	BEGIN	END	03E	[
SEEDING	Apr 7	48 cows 1 Buil		49C	4/7/88	4/8/88	100%	
11	" 8	98 COWS		1470	4/9/58	4/15/88	10020	39
<u> </u>	1116	21 COUS 7 CALVES		1760	4/16/88	4/17/88	100%	12
<u> </u>	117	55 cous 7 Buils		2380	4/18/38	5/1/38	100%	
11	MAY 2	41 cows 4 Buils		283C	5/2/99	5/3/98	100 %	19
<u> </u>	n 3	SO COWS		335C	5/4/88	5/20/58	100 %	190
Serve 22,23	1121	62 COWS 3 Buils		400 C	5/21/38	9/24/38	10%	1.65
MOLED FROM	Septas		18 cows 1 Buil	381 C	9/25/88	10/20/58	10%	33
PASTURE COMP.	oct 21		189 grown cuttle	1920	10/21/88	19/25-138	10000	3
	oct 25		189 gran					
	threef gross	rg		TOTAL	ÀCTIVE	REFER	ENCE	4,89
	Recion	0-	sdeed	ACTZ	UE U	E 199	3	2,384
N	Standard .			Non-	USE	19BB		2,50
······································	Ť.	26	412	11-15-08 g	<del>m</del> , 5/	To Non-CC	E 1988	
		Land Managamer		CAVA	RY CHIM	TOME	=	1,560
		393		5 K	, l	STUNE OF	(SE =	82.
	As of act 25	still out	- 10 head	407				
I CERTIFY That this is a		curate report of my	grazing use.					
Signature of Permittee/L	the R	ille				Date バ	/24/84	S
Title 18 U.S.C. Section 10	001, makes it a cr	ime for any person	knowingly and wi	llfully to ma	ke to any d	epartment or	agency of	the Unit
States any false, fictitious	s, or fraudulent st	atements or repres	entations as to an	y matter with	nin its jurisc	iiction.		

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

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 	<u> </u>		Ĺ

FORM APPROVED OMB NO. 1004-0051 Expires: October 31, 1991

# ACTUAL GRAZING USE REPORT

Bill No. #04263505

Dear Sir:

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete this form and return to the Resource Area Office within

15 days after completing your authorized grazing use (43 CFR 4130.6-2(d)). This information, along with other studies data, is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn live-stock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreciated.

Allotment

Wall Canyon			FOR BLM USE ONLY						
ACTUAL GRAZING USE				CALCULATION OF AUM'S GRAZING USE					
PASTURE	$\frac{\mathbf{DATE}}{(M\alpha - Dax - Y_{E,i})}$	NUMBER AND KIND OR CLASS OF LIVESTOCK		NO. AND KIND OF LIVE-	GRAZING PERIOD		°7℃ • PL	AUM'S	
		TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE		
WI CANYON EAST	5/20/92	560		560	5/20	7/6	98	866	
n he n	7/6/92		560	560 1742 A	Astivi	Prefe	rence =	1838	
				1992 A	etval		7.1%	of Hitie	
·									
				<b>_</b>					
			- <u> </u>						
······································									
-									
<u></u>									
CERTIFY That this is a							<u>l</u>		

Signature of Persitives Leassee Jack Mella

Date 11-24-92

Title 18 U.S.C. Section 100, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

Form 4130-5 (March 1989)	DEPARTM	NITED STATE ENT OF THE OF LAND MAN	INTERIOR	REC2 <sup>®</sup> D		0	ORM APPRO MB NO. 1004 hires: Octobe	-0051	
	ACTUAL	GRAZING USE	EREPORT	<u>.</u> 1 <u>2</u> 1991		GR#0426	35		
Dear Sir: R.C. Robe In accordance with th form and return to the 15 days after complet is needed to evaluate stock in or take lives ated.	e terms and condit ing your authorized the effectiveness	d grazing use ( of present mar	(43 CFR 4130.6- nagement. Use a	2(d)). This separate li	Surprise informatio ne for eve	Reso n, along w ry day tha	ource Area C ith other st t you eithe	Office within udies data, r turn live-	
Allotment Wall Canyo	on East #1014				FOR	BLM USE	ONLY		
warn canyo	ACTUAL GRAZI	NG USE		CALCULATION OF AUM'S GRAZING USE					
PASTURE	DATE NUMBER AND KIND OR CLASS OF LIVESTOCK		NO. AND KIND OF LIVE-	GRAZING PERIOD %		∽, PL	AUM'S		
	mlo la	TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE		
<u></u>	5/20/91	615		615 C	05/20	07/02		872	
	7/2/91	545_	>	Foc	07/03	07/06	9820	9	
	1/0/7/	10 -							
				TOTAL	Acti	at Pize	Ference	/ 83	
				Ac	THE	ISE 1	991	88	
				Noru	-435	19	2/	957	
			, 	1991	522	110:1-0	use -	[	
				( 1 57	-121				
					<u> </u>				
n									
	+								
CERTIFY That this is Signature of Permittee L			y grazing use.			4			

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

Form 4130-5 (March 1989)

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

FORM APPROVED OMB NO. 1004-0051 Expires: October 31, 1991

#### ACTUAL GRAZING USE REPORT

Dear Sir:

GR#042635 SCH 1

SECENET

OCT In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete this form and return to the Resource Area Office within . . . . 

15 days after completing your authorized grazing use (43 CFR 4130.6-2(d)). This information, along with other studies data, is needed to evaluate the effectiveness of present management. Use a separate line for every day that you either turn livestock in or take livestock out of an allotment or pasture. Your cooperation in providing accurate information will be appreciated.

Wall Canyon (East) #1014					FOR BLM USE ONLY				
	ACTUAL GRAZ	ING USE		СА	LCULATIO	N OF AUM'S	GRAZING	JSE	
PASTURE	$\frac{\mathbf{DATE}}{\mathcal{O} \mathcal{O} \mathcal{O} \mathcal{O} \mathcal{O} \mathcal{O} \mathcal{O} $		ND KIND OR LIVESTOCK	NO. AND KIND OF LIVE-	GRAZIN	G PERIOD	% PL	AUM'S	
<u> </u>		TURNED IN	TAKEN OUT	STOCK	BEGIN	END	USE		
1014	6/6/90	339		339C	0406	08/22	98%	853	
1014 1014 1014	8/22/90		86	253C	09/23	08/22 A/20	98%	236	
1014	9/20/90		251					·	
				TOTAL	Nette	e ho	Ener c	1838	
				Actte	- USE	- 1990		1088	
				New -	USE -	1990 Lize 10		750	
			,	L// C	0 N.00 -	USE 1	20	······	
								·	
		<u></u>						·····	
<u> </u>									
				Dawy 10/1:	h.				
CERTIFY That this is	s a complete and accu	rate report of my	grazing use.	10/1	170				
Signature of Permitter	Leassee A	1 1/2	11			Date /0-	9-90		

Signature of P ALS Im

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Form 4130-5 (August 1983)	DEPART	UNITED STATE MENT OF THE OF LAND MAN	INTERIOR	RECEIVEL	)	ON Expir	ORM APPRO IB NO. 1004 es: January OY 263/	-0051 31, 1986
	ACTUAL	. GRAZING USE	REPORT	ICT 0 /98	39		EQUIE 1	′
Dear Sir: In accordance with the form and return to the 15 days after completin along with other studies day that you either turn information will be appr	g your authorize s data, is neede livestock in or	ed grazing use ( ed to evaluate th	43 CFR 4120.2- e effectiveness	ich authori 2(d), 4120. of present	zes, your 2-3(e), an managemen	Reso d 4130.5-1 nt. Use a s	urce Area C (e)). This separate lin	office with information, le for even
Allotment Wall Canyon (East	) #1014				FOR	BLM USE	ONLY	
	ACTUAL GRAZ	ING USE		CA		N OF AUM'S	GRAZING	JSE
PASTURE	<b>DATE</b> (Mo., Day, Yr.)		ND KIND OR LIVESTOCK TAKEN OUT	NO. AND KIND OF LIVE- STOCK	GRAZIN BEGIN	G PERIOD	°% PL USE	AUM'S
WALL BANYON PLAN	3-18-39	251	······································	251 C	08/18	10/14	98%	469
3	10 - 14-89		251					
								<b>_</b>
						· .		
				TOTAL	Acto	UE A	ExFerence	= 1,37
				Actto	re US	198	92	<u>= 1,37</u> 469 908
				1000	-USE	1904 10-10e	$\frac{2}{2}$	<u>708</u>
				_(00-2	<u> / 4014 - 0</u>			
n								

I CERTIFY That this is a complete and accurate report of my grazing use. 

المبهنا

C.t.

Signature of Permittee/Leasser. فتسجعه محرفان بسرائي

Ret. 25,1989 Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements of representations as to any matter within its jurisdiction. \_\_\_\_

(Continued on reverse)

Form 4130-5 (August 1983)

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

FORM APPROVED OMB NO. 1004-0051 Expires: January 31, 1986

#### ACTUAL GRAZING USE REPORT

Dear Sir:

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Allotment	CUNYON E	DET #1	014		FOR	BLM USE	ONLY	
	ACTUAL GRAZ			СА	LCULATIO	N OF AUM'S	GRAZING	JSE
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Form 4130-5 (August 1983)

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

#### ACTUAL GRAZING USE REPORT

Dear Sir:

In accordance with the terms and conditions of the permit or lease which authorizes your grazing use, please complete thi form and return to the Resource Area Office with

15 days after completing your authorized grazing use (43 CFR 4120.2-2(d), 4120.2-3(e), and 4130.5-1(e)). This information, along with other studies data, is needed to evaluate the effectiveness of present management. Use a separate line for ever day that you either turn livestock in or take livestock out of an allotment or pasture. Your cooperation in providing accurat information will be appreciated.

	Allotn	nent  1]/s	acc (	PANJON	BLM			FOR	BLM USE	ONLY	
				ACTUAL GRA	ZING USE		CALCULATION OF AUM'S GRAZING USE				
		PASTURE (Mo., Day, Yr.)		DATE CLASS OF LIVESTOCK		NO. AND KIND OF GRAZING PERIOD LIVE-		% PL	AUM'S		
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	11		1	4-23-88	118		217 C	04/23	04/24	28%	14
,	11	9	مد	4-25-38	110		327C	04/25	04/27	98%	32
	n	11		4-28-88	38		415C	04/28	06/09	98%	583
TO.	B,	ADGER	NER	4-9-38		172	243C	06/10	06/10	98°20	8
£.,		17	"	6-10-88		204	39C	<u>66/11</u>	06/13	98 %	4
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I CERTIFY That this is a complete and accurate report of my grazing use.

Signature of Permittee/Leassee

Date 0

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on reverse)

## **APPENDIX 7**

### ARCHEOLOGICAL SITE SURVEY FORMS

### HIGH ROCK AREA

### EAST OF CANYON HOME RANGE, HIGH ROCK HMA

### IN THE

BITNER, NUT MOUNTAIN, AND WALL CANYON HMAs

### ARCHAEOLOGICAL SITE SURVEY RECORD

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ARCHAEOLOGICAL SITE SURVEY RECORD	mazz
1. Site 2. Map High Rock Lake 7.5' 3. County	Washoe
	1/4 of Sec.
5. Location	
	·
6. Contour	elevation 5020'
7. Previous designations for site	
8. Owner USDI - BLM 9. Address <u>Susanvil</u>	le, CA
10. Previous owners, dates	
11. Present tenant	
12. Attitude toward excavation <u>Permit required</u>	
13. Description of site Large rockshelter at base of cliff abo	ve major seasonal
_drainage.	· · · · · · · · · · · · · · · · · · ·
14. Area <u>50' x 20'</u> 15. Depth <u>Poss. 2'</u> 16. Height	:
17. Vegetation Greasewood, rabbitbrush, sage 18. Nearest wa	ter <u>Seasonal</u> , 500'
19. Soil of site Rocky, brown organics 20. Surroundin	g soil <u>Talus slope</u>
21. Previous excavation none	
22. Cultivation none 23. Erosion none	
24. Buildings, roads, etc. High Rock jeeptrail 1500' E	
25. Possibility of destruction <u>slight</u>	
26. House pits	·
27. Other features	
	· · · · · · · · · · · · · · · · · · ·
28. Burials <u>—</u>	
29. Artifacts Very sparse chippage of cherts and basalt (basalt of	occurs in talus down
slope).	·····
	·
30. Remarks Shelter is used by wild horses, who have left a thick	,
which obscures deposit. Chippage visible only outside of shelte	r, beyond dripline.
31. Published references none	
33. Sketch map <u>USGS ma</u>	
34. Date June 17, 1977 35. Recorded by <u>C. Corson</u>	36. Photos X
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COWHEAD-MASSACRE SPRING SURVEY

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	by <u>Melinda Leach</u> at Type information is a	available
otal ar	ea surveyed (est.) <u>ca.</u>	33 acres of slope where lithic concentrations lie.
hotos	Vec	Date 7/15/77
	U.S.G.S. 7.5' Hig	h Rock Lake xerox attached
lap (att	ach USGS 7.5' Xerox or	15' Xerox and field sketch map)
ay be d	ue to the limited time	allowed for survey rather than their actual absence
		ive and diverse site with dense concentrations of tools. No millingstones were recovered, but this
bast yea	rs. There is evidence	of heavy wild horse use of this water source as we
Remarks	An extensive meadow (8	350' x 20') indicates a much more reliable output i
later ou	tput (volume est.) Less	than 1/4 gallon per minute at present.
		ge, Great Basin Wild Rye, low sage, Sitanion hystri t spring.
•	Big co	To Great Rasin Wild Dvo low case Sitanian huston
		· · · · · · · · · · · · · · · · · · ·
Site tv	pes Large base camp (?)	) at spring above drainage.
		•
Sites r	See map for ecorded (attach Site Su	more specific access. rvey Records)
Locatio	n (approach)	
Map ref	erence <u>High Rock Lake</u>	Elevation 5940'
Legal d	escription U.S.G.S. 7.5'	
County	Washoe	BLM Planning Unit Massacre

CMSS No.

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mappe

BLM Site No.\_\_\_\_

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ARCHAEOLOGICAL SITE SURVEY RECORD

Legal Desc			UTM	
Location		•		
Description 1	ithic scatter on rim	-edge above go	Statuspubli rge (hunting/chippin	
Size 40m x40	Om	Depth	Elevat	ion6240
Slope8%	Aspectsout	hSoil	gravelly, sandy si	lt
Vegetation: Typ	esage_grassla	nd		
,	ig sage, rabbitbrush			
Grasses s	quirreltail			
Trees	none	Forbs		
	asonal stream		d Direction 100m sout and	200m west
Modern Cultural		<u></u>		
Associated Feat	uresnone			· · · · · · · · · · · · · · · · · · ·
			Erosion severe	
Artifacts <u>sec</u> 15/r	ondary trimming flak n <sup>2</sup>	es of obsidian	, rare chert and basalt (	chippage.
Remarksproli	ific sign of wild how	rse activity		

		and the mappe
	ARCHAEOLOGICAL SITE SUR	A ANIECORDE
Site	MapYellow Hills East	7 5' County Washoe
Legal Desc		ТІТМ
Location_		
II		A CONTRACTOR OF CONTRACTOR
		Status public
Description small	Chinning station overlooking a s	ubstantial drainage
Size 15m n/s x 10m	n e/w	
	Aspect east Soil	
STope_0-5%	Aspect east Soll	ocky grey silt
Vegetation: Type ga	sagebrush grassland	
Shrubs <u>Tow</u>		
GrassesSti	pa	
Trees	Forbs	
Water: Type interm	ittent wash Dist. and Di	rection 400' to west (permanent
	and the state of the second state of the	within 1.5 miles)
nouern curcurar intr	usions none	
Modern Cultural Intr Associated Features_		osion <b>sheetwash</b>
Associated Features	Ero imary and thinning flakes of a bl obsidian. <b>B</b> No cores present.	ack glossy obsidian (predominan
Associated Features Artifacts Large pr a grey sugary	Ero imary and thinning flakes of a bl obsidian. <b>B</b> No cores present.	ack glossy obsidian (predominan
Associated Features Artifacts Large pr a grey sugary	Erc Timary and thinning flakes of a bl Tobsidian: & No cores present.	ack glossy obsidian (predominan
Associated Features_ Artifacts Large pr a grey sugary square meter.	 Erc imary and thinning flakes of a bl obsidian. <b>A</b> No cores present.	ack glossy obsidian (predominan
Associated Features_ Artifacts Large pr a grey sugary square meter.	 Erce Timary and thinning flakes of a bla obsidian. A No cores present. ablelands Survey Unit 2.21.	ack glossy obsidian (predominan Density ranges from 1-6 flakes
Associated Features_ Artifacts Large pr a grey sugary square meter.	 Erc imary and thinning flakes of a bl obsidian. <b>A</b> No cores present.	ack glossy obsidian (predominan Density ranges from 1-6 flakes
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Site	Map Yellow Hill	s East TO 7.	5'	County	Washo	e · ·
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		<u> </u>	State	us <u>nublic</u>	1	
Description light	t lithic catter on up	and flats				r af a
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Size 20m x 20m	De	pth	E	levation	6380'	
· · · ·	Aspect north					
	big sage-grassland			المجرد المقور المقور		
	. rabbitbrush. sparse	N 11			A	tin tarih di territika. Na tarih di territika
Grasses <u>cheat</u> ,	<u>, rabbiabrush, sparse</u> cauinnoltail	Child C	R A S			
Grasses Chears	Syurreitair	€ <b></b>	and a second fragment			
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Trees <u>none</u> Water: Type <u>seaso</u>	nal stream	Forbs Dist. and I	 Direction	n9 mile	es north	
Trees <u>none</u> Mater: Type <u>Seaso</u>	••••••••••••••••••••••••••••••••••••••	Forbs Dist. and I	 Direction		es north	
Trees <u>none</u> Water: Type <u>Seaso</u>	nal stream	Forbs Dist. and I		n9 mile	<u>es north</u>	······································
Trees <u>none</u> Mater: Type <u>Seaso</u>	nal stream	Forbs Dist. and I 40m north		n <u>.9 mile</u>	<u>es north</u>	
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Trees <u>none</u> Vater: Type <u>seaso</u> Nodern cultural in Associated Feature	<pre>nal stream trusionsjeep trail s</pre>	Forbs Dist. and I 40m north Erosion	jirection slight	a <u>.9 mile</u> econdary c		
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ARCHAEOLOGICAL SITE SURVEY RECORD

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Description Ver	v small chip	ping station o					· · ·
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# **APPENDIX 8**

WILDERNESS STUDY AREA,

### INTERMIM MANAGEMENT PLAN

### **COMPLIANCE**

### EAST FORK HIGH ROCK CANYON WSA

### AND MASSACRE RIM WSA

### WILDERNESS STUDY AREA, INTERIM MANAGEMENT PLAN COMPLIANCE

### MASSACRE RIM WSA AND EAST FORK HIGH ROCK CANYON WSA

### **PROPOSED ACTION AND ALTERNATIVE 2**

#### Bitner, Nut Mountain, and Wall Canyon HMAs

### **PROPOSED ACTION**

Criteria 1. Is the action temporary? Yes.

Two to four days of activity would take place in the Massacre Rim WSA gathering horses on the Bitner HMA. Two to three days of activity would take place in the East Fork High Rock Canyon WSA on the Nut Mountain and Wall Canyon HMAs. In combination with gathering activities on the High Rock HMA, East of Canyon Home Range there could be up to seven days of gathering activities in the East Fork High Rock Canyon WSA.

Criteria 2. Are the temporary impacts caused by the proposed action capable of being reclaimed to a condition of being substantially unnoticeable in the WSAs as a whole? Yes.

The temporary action will disturb the feeling of solitude. The disturbance will result from the noise from the helicopter and commotion of the wild horses being driven toward the trap sites. No reclamation is required. When the gather is completed the disturbance ends.

## Criteria 3. Does the activity significantly constrain the Secretary of Interior's recommendations with respect to the area's suitability or nonsuitability for preservation as wilderness? No.

The wilderness value affected is solitude. The affect will end at the end of the gather.

### **ALTERNATIVE 2**

Criteria 1. Is the action temporary? Yes.

No wild horse gathering will take place at this time.

Criteria 2. Are the temporary impacts caused by the proposed action capable of being reclaimed to a condition of being substantially unnoticeable in the WSAs as a whole? Yes.

There will be no impacts to reclaim.

Criteria 3. Does the activity significantly constrain the Secretary of Interior's recommendations with respect to the area's suitability or nonsuitability for preservation as wilderness? No.

### EAST FORK HIGH ROCK CANYON WSA

### **PROPOSED ACTION AND ALTERNATIVE 2**

#### High Rock HMA, East of Canyon Home Range

### PROPOSED ACTION

Criteria 1. Is the action temporary? Yes.

Two to four days of activity would take place in the East Fork High Rock WSA. In combination with gathering activities on the Nut Mountain and Wall Canyon HMAs, there could be up to seven days of gathering activities in this WSA.

Criteria 2. Are the temporary impacts caused by the proposed action capable of being reclaimed to a condition of being substantially unnoticeable in the WSA as a whole? Yes.

The temporary action will disturb the feeling of solitude. The disturbance will result from the noise from the helicopter and commotion of the wild horses being driven toward the trap sites. No reclamation is required. When the gather is completed this disturbance ends.

The proposed action will affect naturalness at the trap site during the gather. The trucks and trailers used for transporting the trap and the captured horses will be turned around at the trap site. There will be trampling by the horses immediately in front of and in the trap.

Reclamation of the disturbance is done as part of removing the trap. Crushed shrubs are scattered. The area is raked to obliterate the tire tracks and signs of trampling. Then the site is swept with brush to remove the rake marks. When the trap is gone the site is completely reclaimed.

Criteria 3. Does the activity significantly constrain the Secretary of Interior's recommendations with respect to the area's suitability or nonsuitability for preservation as wilderness? No.

The wilderness values affected are solitude and naturalness at the trap site. Neither affect persists past the end of the gather. Naturalness is completely restored by the reclamation procedures.

### **ALTERNATIVE 2**

Criteria 1.	Is the action temporary? Yes.	
		۰.
	No wild horse gathering will take place at this time.	

Criteria 2. Are the temporary impacts caused by the proposed action capable of being reclaimed to a condition of being substantially unnoticeable in the WSAs as a whole? Yes.

There will be no impacts to reclaim.

Criteria 3. Does the activity significantly constrain the Secretary of Interior's recommendations with respect to the area's suitability or nonsuitability for preservation as wilderness? No.