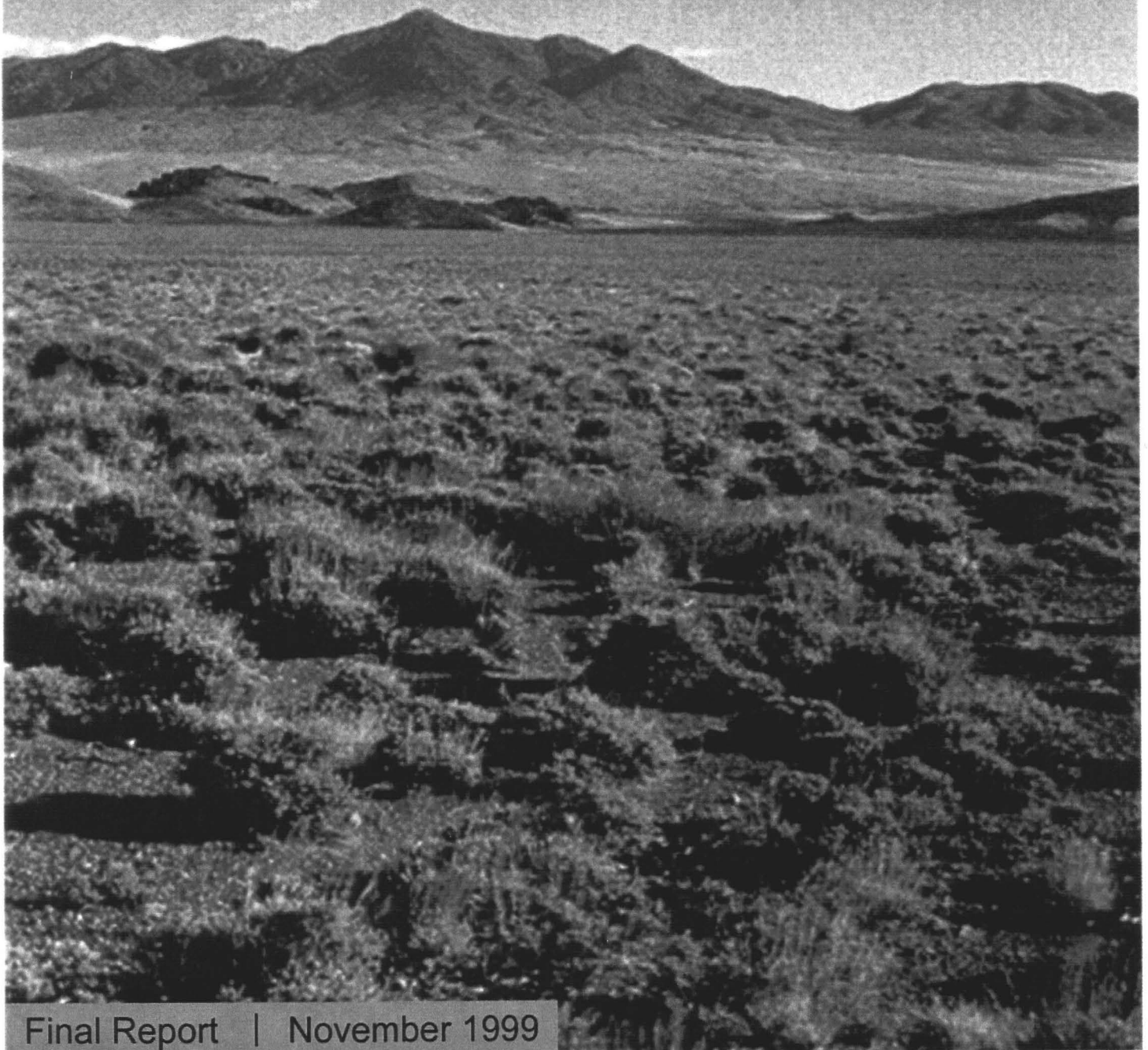


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# **Range Condition Survey and Appropriate Management Level of Wild Horses on the Nevada Wild Horse Range, Nye County, Nevada**



Final Report | November 1999

**RANGE CONDITION SURVEY AND APPROPRIATE  
MANAGEMENT LEVEL OF WILD HORSES  
ON THE NEVADA WILD HORSE RANGE,  
NYE COUNTY, NEVADA**

**FINAL REPORT**

**Prepared by**

**SCIENCE APPLICATIONS INTERNATIONAL CORPORATION**

**for**

**NELLIS AIR FORCE BOMBING AND GUNNERY RANGE  
LAS VEGAS, NEVADA**

**and**

**U.S. ARMY CORPS OF ENGINEERS  
FORT WORTH, TEXAS**

**NOVEMBER 1999**



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**1.0 INTRODUCTION**

Over the past 200 years, ranchers, miners, and others have released horses (*Equus caballus*) into the wild throughout the western United States, including Nevada. These animals have multiplied and continue to thrive in south-central Nevada, and several herds currently roam the north-central portion of the Nellis Air Force Range (NAFR).

In 1962, the Nevada Wild Horse Range (NWHR) was established on the north-central portion of the NAFR via a cooperative agreement between the U.S. Air Force (USAF) and the Bureau of Land Management (BLM) (BLM, 1989, pg. 3-7). During that year, approximately 200 wild horses roamed the 396,252-acre NWHR. Since 1962, the wild horse population on the NAFR, including the NWHR, has increased substantially (Table 1), and the distribution of horses has expanded beyond the administrative boundary of the NWHR (Shepherd, 1999). By 1984, 4,890 wild horses roamed over most of the northern portion of the NAFR in an area of approximately 1,780,000 acres (BLM, 1989, pg. D-1).

**Table 1. Number of Wild Horses on the Northern Nellis Air Force Range**

<i>Year of Inventory</i>	<i>Number of Wild Horses</i>
1963	200 <sup>a</sup>
1973	800 <sup>a</sup>
1976	1,064 <sup>a</sup>
1977	1,300 <sup>a</sup>
1980	3,122 <sup>a</sup>
1982	4,405 <sup>a</sup>
1983	4,860 <sup>a</sup>
1984	4,890 <sup>a</sup>
1987	5,000 <sup>b</sup>
1991-1993	9,000-10,000 <sup>c</sup>
1997	526 <sup>d</sup>
1998	820 <sup>d</sup>

Sources: <sup>a</sup>BLM, 1989; <sup>b</sup>USAF, 1997a; <sup>c</sup>Shepherd, 1999; <sup>d</sup>McFadden, 1999.

During the late 1980s, concerns about wild horse over-population and over-grazing prompted land managers to consider limiting wild horse numbers on the NWHR and the NAFR. The *Nevada Wild Horse Range Herd Management Plan* (BLM, 1989, Appendix D) established a limit of 2,000 wild horses on the NWHR. In addition, the *Nellis Air Force Range Resource Plan* directed the BLM to “adjust wild horse numbers to achieve a thriving ecological balance using data obtained from monitoring and, if available, from other sources,” and to “continue to conduct vegetation trend and utilization studies” (BLM, 1992, pg. 9).

In the years following implementation of these planning documents, the BLM began reducing the horse population through round-ups and public adoptions. The BLM also began conducting “utilization studies” to assess the amount of forage consumed by the horses. However, vegetation trend and monitoring efforts necessary to establish an ecologically sound upper limit for the horse population were not conducted. Based on the utilization studies, the BLM lowered the preferred horse population size, and attempted to achieve these reduced limits in March and June 1997, when 1,044 of the estimated 1,570 horses on the Range were removed (McFadden, 1999). By September 1998, the population of wild horses on the northern Nellis ranges had increased to 820 (McFadden, 1999). Future plans include additional round-ups every 3 to 4 years to maintain a population size of 600 to 1,000, which was the



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Appropriate Management Level (AML) established for the entire North Range (USAF, 1999, pg. 3.8-33, personal communications with McFadden, 1998).

Annual utilization studies indicate that the general condition of the vegetation on the northern Nellis ranges has improved since the early 1990s, when severe over-grazing by wild horses was common (McFadden, 1999). However, plant production and range condition data are needed to confirm this assessment. In addition, these data are needed to calculate an AML for the NWHR.

The wild horse population that the range can support is limited by the amount of forage and water available to the horses. This is the primary reason that requirements to monitor forage production were included in the *Nellis Air Force Range Resource Management Plan* (BLM, 1992). Currently, BLM uses utilization studies as an index of forage production, by assessing the amount of forage remaining at the end of the growing season. These studies are used because they require minimal time investment. However, determination of the AML from plant production, while more time consuming, is more accurate because the AML is calculated from actual plant biomass production measured in the field.

Personnel from the NAFR realized that range condition data would be needed to effectively evaluate the condition of the vegetation on the NWHR and to calculate the AML. Therefore, the USAF tasked Science Applications International Corporation (SAIC) to delineate the range associations on the NWHR, determine the condition of vegetation within the area, and determine the AML for wild horses in the NWHR. This report summarizes the results of these efforts.

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**2.0 METHODS**

**2.1 STUDY AREA**

The topography of the NWHR is typical of the Basin and Range Physiographic Province, with long, north-south trending mountain ranges separated by broad alluvium-filled valleys. Most of the land area of the NWHR is in Kawich Valley, which is bordered on the east by the Belted Mountain Range and on the west by the Kawich Range. Portions of the upper bajadas on the west side of the Kawich Range are also included in the NWHR. Elevations of the NWHR range from 5,055 feet on the Gold Flat Playa to 8,495 feet in the Belted Mountains.

The vegetation of the NWHR is dominated by Great Basin flora. Shadscale saltbush (*Atriplex confertifolia*), fourwing saltbush (*Atriplex canescens*), winterfat (*Krascheninnikovia lanata*), and Indian ricegrass (*Achnatherum hymenoides*) typify the vegetation of the valley floors, and Wyoming big sagebrush (*Artemisia tridentata* ssp. *wyomingensis*), black sagebrush (*Artemisia nova*), and Indian ricegrass dominate most of the bajadas at the middle and upper elevations. Additional species that are common in this area include green rabbitbrush (*Chrysothamnus viscidiflorus*), Nevada jointfir (*Ephedra nevadensis*), spiny hopsage (*Grayia spinosa*), wildrye (*Elymus elymoides* spp. *hordeoides*), Galleta grass (*Pleuraphis jamesii*), bud sagebrush (*Artemisia spinescens*), globemallow (*Sphaeralcea* spp.), and greenmolly (*Kochia americana*). The dominant plant community in the mountains is pinyon-juniper woodland (*Pinus monophylla* and *Juniperus osteosperma*), with big sagebrush (*Artemisia tridentata*) dominating the understory.

The climate of the NWHR is semiarid. Daily and seasonal temperatures vary greatly and are influenced by air movement and topography (BLM, 1989). Average annual precipitation from 1954 to 1998 at the Tonopah Airport (approximately 50 miles from the NWHR with similar elevation) was 5.37 inches (Desert Research Institute [DRI], 1999). Average daily temperatures range from 31.2 degrees Fahrenheit (°F) in January, to 73.8 °F in July (Table 2) (DRI, 1999). Daytime temperatures in summer often exceed 90 °F, and nighttime temperatures drop to 50 to 60 °F. Average winter temperatures are between 31 and 41 °F (BLM, 1989).

**2.2 DATA COLLECTION AND CALCULATIONS**

One of the methods used by BLM to determine the AML of rangeland for livestock or wild horses is to delineate range sites, collect plant production and condition data from those range sites, calculate forage production across the range, and then calculate the AML based on the desired forage utilization. To the extent possible, this method was followed. The only exception was the method used to delineate range sites as described in Section 2.2.1.

Data for this project were collected following standard BLM methods obtained from the *National Range Handbook* (Natural Resources Conservation Service [NRCS], 1985), and the *Nevada Rangeland Monitoring Handbook* (NRCS, 1984). These methods were then incorporated into procedures (Appendix A) that were reviewed and accepted by personnel of the Las Vegas, Nevada and Ely, Nevada Field Offices of the BLM. Standard BLM forms were recreated and used for recording data.

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**Table 2. Historic and Annual (1998 and 1999) Total Monthly Precipitation and Mean Monthly Air Temperature at the Tonopah, Nevada Airport, Nye County**

Month	Precipitation (inches)			Temperature (°F)		
	1954-98 (mean)	1998	1999	1954-98 (mean)	1998	1999
January	0.39	0.08	1.08	31.2	34.5	33.0
February	0.48	2.25	0.06	36.4	33.7	35.4
March	0.52	0.76	0.07	41.7	42.4	41.9
April	0.37	0.34	0.67	48.3	45.6	44.5
May	0.62	1.32	0.12	57.5	50.7	57.7
June	0.33	1.67	1.17 <sup>a</sup>	67.2	61.6	59.3 <sup>b</sup>
July	0.54	0.40	—	73.8	73.9	—
August	0.50	0.02	—	71.8	73.8	—
September	0.50	1.68	—	63.7	63.7	—
October	0.37	0.67	—	52.7	48.8	—
November	0.44	0.23	—	39.9	39.0	—
December	0.28	0.00	—	32.3	32.2	—
<i>Total</i>	<i>5.34</i>	<i>9.42</i>	<i>3.17</i>	<i>Mean</i>	<i>51.4</i>	<i>50.0</i>

<sup>a</sup> Missing 18 days of data; <sup>b</sup> Missing 17 days of data.

Source: DRI, 1999.

### 2.2.1 Range Association Delineation

The first step in determining the AML was to identify areas used by wild horses. The total area within the NWHR is 396,252 acres. Based on observations by NAFR and BLM personnel, wild horses on the NWHR use basin bottoms and middle-to-upper elevation bajadas. Mountains (particularly the pinyon-juniper woodlands) and playas are used infrequently by horses; therefore, data were not collected from these areas. The area within the NWHR used by horses was estimated to be 204,145 acres (51.5 percent of the NWHR). This area is referred to in this report as the Wild Horse Use Area (WHUA), not to be confused with seasonal horse use areas (USAF, 1999, pg. 3.8-34).

The second step was to delineate range sites. A range site is a distinctive kind of rangeland that differs from others in its ability to produce a characteristic natural plant community (NRCS, 1985). For this effort, the NWHR was delineated into 17 large polygons based on similar landforms and groups of range sites typically associated with each other. These polygons are referred to in this report as Range Site Associations (associations). The delineation of the associations was initiated in the office and completed in the field. Associations were delineated by studying the following map resources: (1) an enhanced false color composite 1:100,000 LandSat Thematic Mapper (TM) satellite image; (2) a U.S. Geologic Survey (USGS) 1:24,000 topographic coverage; (3) a digital 1:250,000 northern Nye County geological coverage; and (4) soils maps from adjacent areas (unpublished NRCS soil surveys). Association boundaries were drawn around areas with apparent similarities in soil, topography, and vegetation. Delineated soil unit boundaries from adjacent areas, surveyed by the NRCS, were extrapolated into the NWHR to the extent possible. Resulting associations ranged in size from 2,458 to 26,254 acres, but most were 5,000 to 20,000 acres (Figure 1, enclosed map at the end of this document).

Between November 11 and 15, 1998, the associations were visited to confirm the boundaries and to determine, by visual estimation, the approximate percentage of each range site enclosed in each association. Sample locations were selected for the dominant range sites in each association. At least one sample location was established in each range site. The following criteria were used to select sample locations: (1) the location was more than 1 mile from a water source; (2) the location was representative of the range site; and (3) the location was not in a transition zone between range sites.

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Forty sample locations were established in 14 range sites during November 1998 and June 1999. Each sample location was marked with a steel post and an aluminum tag with the name of the sample location attached to the post. The *Study Location and Documentation Data* form was then completed (selected data from these forms are in Appendix B). Personnel from the Las Vegas and Ely Field Offices of the BLM participated in the efforts to delineate the associations, determine range site percentages, and establish the sample locations.

### **2.2.2 Range Condition and Forage Production**

Between June 2 and 8, 1999, SAIC biologists and personnel from the BLM Las Vegas and Ely Field Offices visited the NWHR to conduct range condition and production, trend, and utilization surveys. The double sampling method (NRCS, 1984) was used to collect range condition data for 27 of the 40 sample locations. A 100-foot transect was established at each sample location, and a round hoop (9.6 square feet) was laid on the ground next to the transect at 10-foot intervals (for a total of 10 samples). Plant production was measured in each of the ten hoops following the method described in Appendix A. Data were recorded on the *Total Annual Yield and Composition Record* (Appendix C).

Data from the *Total Annual Yield and Composition Record* forms were transferred to *Range Inventory Worksheets* (Appendix D). Range condition was then determined by comparing current annual production data to site potential data recorded on the *Range Site Description* form (NRCS, 1987). One of four range condition ratings was assigned to each study site: (1) Potential Natural Climax (PNC) or Excellent; (2) Late Seral or Good; (3) Mid-seral or Fair; and (4) Early Seral or Poor.

Range condition data at 13 of the 40 sample locations (see Table 5 in Section 3.2.1) were obtained by BLM personnel, who visually estimated the production (dry-weight basis) of all plant species. These data were recorded directly onto *Range Inventory Worksheets* and range condition was determined following the procedure in the previous paragraph.

Range condition within each association was determined using data from sample locations established within the association. If an association contained a range site not represented by a sample location within that association, data were used from a sample location in the same range site in another association with similar slope, aspect, and seral stage based on ocular estimate. Vegetation production was calculated for each association by multiplying the estimated production for each range site by the area it occupied within the association. The resulting values were then added together. Association "P" was not sampled for production due to restricted access to the area.

### **2.2.3 Appropriate Management Level (AML) Calculations**

#### Assumptions

Plant production data were used to determine the AML for wild horses on the NWHR. Several assumptions were made to calculate the AML. These assumptions and an explanation of each follows.

- An average-sized adult wild horse is equal to one animal unit (AU).

An AU is defined as one mature 1,000-pound cow or its equivalent based upon average daily forage consumption of 26 pounds of dry matter per day, or 9,500 pounds of dry matter per year.



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- Wild horses feed primarily on perennial grasses.

The diet of wild horses on the Northern Nellis Ranges consists primarily of perennial grasses (Zarn et al., 1977; Berger, 1986). Stager (1999) stated that at 50 percent or less perennial grass utilization, the diet of wild horses would consist of primarily perennial grasses.

- The BLM allows 55 percent utilization of available perennial grasses of Nevada rangelands.

Forty-five percent of the grass plant produced in a year should be left after grazing to maintain the ecological condition of the soil and the plant community (NRCS, 1984).

- The target utilization rate of available perennial grasses by wild horses is 50 percent within 4 miles of water, 25 percent between 4 and 8 miles of water, and 0 percent beyond 8 miles.

Documentation of the distance from water a horse will walk to forage is limited. It was assumed that within 4 miles of water, utilization of forage would result primarily from wild horses (50 percent of the production), with a small percentage being reserved for other wildlife (5 percent of the production). Between 4 and 8 miles from water, foraging by horses would be less frequent and less intense, therefore it is assumed that only 25 percent of the available forage would be used by wild horses.

- AMLs are calculated based on perennial grass production in a poor rainfall year.

The AML is intended to identify the wild horse abundance that would result in the maximum number of healthy horses in the population, and minimal impact on the condition of the range. Setting an AML for wild horses based on production data from a favorable year would not be prudent. Less forage is produced during unfavorable years, and therefore, a herd of wild horses whose numbers were based on data from a favorable year would over-utilize the vegetation in a normal or unfavorable year. Therefore, the AML is determined using production data calculated for an unfavorable or poor rainfall year.

### Methods

To determine the AML for the WHUA, the amount of perennial grass that would be produced in a poor rainfall year, and the amount of that production that would occur within 4 and 8 miles of water were calculated.

The amount of perennial grass likely to be produced in a poor rainfall year in the WHUA was calculated by determining the ratio of total annual production in a good rainfall year versus a poor rainfall year for each range site based on values in the Range Handbook (NRCS, 1984). The ratio was then multiplied by the perennial grass production in the range site measured in 1999 (a year with good rainfall during the growing season). The resulting value, estimated perennial grass production in each range site, was then multiplied by the proportion of each association composed of that range site, and the values were summed to determine total estimated perennial grass production in a poor rainfall year in each association.

To determine the amount of perennial grass production within 4 and 8 miles of water sources, water sources likely to provide water to horses in a poor rainfall year were identified. These waters were identified as those with surface water present in the Wetland Survey Report (USAF, 1997b), which reported data from surveys in 1996, a relatively dry year. A GIS was used to calculate the amount of area of each association within 4 miles of these waters, and the amount of land within 8 miles of the waters.

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The amount of each association within 4 miles of the waters was then multiplied by the amount of perennial grass likely to be produced in each association in a poor rainfall year, and this was then multiplied by 50 percent utilization of available forage. This calculation also was made for areas between 4 and 8 miles from water sources, using 25 percent utilization. The sum of these values was the total estimated perennial grass production available to wild horses in poor rainfall years.

The total perennial grass production available to wild horses was then divided by 9,500 (pounds of forage eaten by one wild horse in one year) to obtain the AML for wild horses on the WHMA.

#### **2.2.4 Trend Data**

As defined for Range Condition Surveys, trend is the direction of change in vegetation toward or away from its potential (NRCS, 1987). At each sample location, trend was subjectively judged according to the instructions on the *Range Inventory Worksheet* by noting changes in plant vigor and age-class distribution, and soil erosion. Detailed methods are described in Appendix A. Trend data were recorded on *Range Inventory Worksheets* (Appendix D).

#### **2.2.5 Photographs of Sample Locations**

One or two color photographs were taken from the beginning point of each transect looking along the transect line (see Appendix E).

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**3.0 RESULTS AND DISCUSSION**

**3.1 RANGE SITE DELINEATION**

Fourteen range sites were identified within the WHUA of the NWHR (Table 3), and 17 range associations were delineated. Detailed descriptions of each range site are found in *Major Land Resource Area 29, Southern Nevada Basin and Range, Nevada Site Descriptions* (NRCS, 1987). Range site 029XY090NV (Coarse Gravelly Loam 6-10" PZ; Atco/Orhy) covered the most area (29,689 acres) and also was the most widely distributed (found in 12 of the 17 associations [Table 4]). Six other range sites covered over 17,000 acres each. Together, these seven range sites covered over 87 percent of the WHUA (Table 3).

**Table 3. Number, Name, and Area of Range Sites in the Wild Horse Use Area, and the Percentage of the Wild Horse Use Area Covered by those Range Sites in the Nevada Wild Horse Range**

<i>Range Site Number</i>	<i>Range Site Name</i>	<i>Area (acres)</i>	<i>Percentage of Use Area</i>
029XY006NV	Loamy 8-10" PZ; Artrw/Orhy-Stco	27,739	13.6
029XY008NV	Shallow Calcareous Loam 8-12" PZ; Arno/Orhy	26,209	12.8
029XY012NV	Sandy 5-8" PZ; Atca/Orhy	17,613	8.6
029XY014NV	Shallow Calcareous Slope 8-12" PZ; Arno/Orhy/Stco	1,182	0.6
029XY016NV	Loamy Upland 5-8" PZ; Grsp-Epne/Orhy	24,454	12.0
029XY017NV	Loamy 5-8" PZ; Atco-Arsp/Orhy	3,655	1.8
029XY020NV	Silty 5-8" PZ; Cela/Orhy-Sihy	4,497	2.2
029XY022NV	Sodic Hill 5-8" PZ; Atco/Hija-Orhy	1,097	0.5
029XY042NV	Coarse Silty 5-8" PZ; Cela/Orhy	24,623	12.1
029XY046NV	Sandy Loam 5-8" PZ; Atca-Cela/Orhy	28,135	13.8
029XY049NV	Sandy Loam 8-12" PZ; Artrw/Orhy-Stsp	2,403	1.2
029XY059NV	Shallow Silty 5-8" PZ; Atco	1,757	0.9
029XY087NV	Gravelly Loam 5-8" PZ"; Saveb/Orhy	3,237	1.6
029XY090NV	Coarse Gravelly Loam 6-10" PZ; Atco/Orhy	29,689	14.5
Unclassified		7,855	3.8
	<i>Total</i>	<i>204,145</i>	

Note: PZ = Precipitation zone.

**3.2 RANGE CONDITION**

Estimated annual production of vegetation in each range site, and in each association of range sites within the WHUA is reported in Table 4. Production in some of the associations (particularly G, H, and L) was unusually high. Production in 15 of the 40 sample locations was greater than the production predicted for those sites in favorable years (Table 5) in the *Range Site Descriptions* (NRCS, 1987). Five sample locations (06A, 46A, 46D, 90C, and 90D) had particularly high production (Table 5).

**3.2.1 Total Annual Production**

Total annual production for the WHUA (excluding association "P") was 138,581,288 pounds of vegetation. Total annual production by range site and association can be calculated from the data in Table 4. Production by sample location is reported in Table 5.



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**Table 4. Range Sites Identified in Delineated Associations on the Nevada Wild Horse Range, and Estimates of Area and Vegetative Production within those Range Sites and Associations during June 1999**

Association	Range Site Number	% of Association	Area (acres)	Production (lbs./acre)	Perennial Grass Production			Data Source <sup>e</sup>
					Actual (%)	PNC <sup>c</sup> (%)	lbs./acre	
A	029XY008	60	8,511	871	7	50	63	08A
	029XY006	30	4,256	1,120	9	50	106	06A
	029XY049	10	1,419	628	4	50	26	49A
			<b>14,186<sup>a</sup></b>	<b>921.40<sup>b</sup></b>			<b>72<sup>d</sup></b>	
B	029XY008	70	13,781	523	11	50	51	08B, 08C
	029XY006	15	2,953	594	7	50	45	06B
	029XY090	10	1,969	419	18	40	77	90A
	029XY049	5	984	628	4	50	26	49A
			<b>19,687</b>	<b>528.50</b>			<b>51</b>	
C	029XY012	60	15,752	635	38	70	243	12B, 12C
	029XY016	30	7,876	553	34	40	188	16A
	029XY087	7	1,838	322	13	45	43	87A
	029XY090	3	788	1,009	40	40	408	90C
			<b>26,254</b>	<b>599.71</b>			<b>217</b>	
D	029XY006	65	2,831	534	12	50	66	06C
	029XY008	30	1,307	378	20	50	64	08B
	029XY012	5	218	501	55	70	274	12B
			<b>4,356</b>	<b>485.55</b>			<b>76</b>	
E	029XY006	65	7,686	750	9	50	68	06E
	029XY008	15	1,774	747	2	50	13	08D
	029XY014	10	1,182	425	7	35	30	14A
	029XY090	10	1,182	637	38	40	245	90B
			<b>11,824</b>	<b>705.75</b>			<b>74</b>	
F	029XY046	45	7,071	261	23	45	60	46F
	029XY042	35	5,500	500	2	55	10	42B
	029XY090	10	1,571	637	38	40	245	90B
	029XY012	5	786	501	55	70	274	12B
	029XY006	5	786	750	9	50	68	06E
			<b>15,714</b>	<b>418.70</b>			<b>72</b>	
G	029XY046	40	1,754	1,679	22	45	363	46A
	029XY022	25	1,097	535	40	30	215	22A
	029XY087	25	1,097	750	20	45	150	87B
	029XY042	7	307	500	2	55	10	42B
	029XY090	3	131	1,617	14	40	221	90D
			<b>4,386</b>	<b>1,076.36</b>			<b>244</b>	
H	029XY090	50	10,697	1,617	14	40	221	90D
	029XY042	30	6,419	500	2	55	10	42B
	029XY046	20	4,279	664	21	45	137	46B
			<b>21,395</b>	<b>1,091.30</b>			<b>141</b>	

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**Table 4. Range Sites Identified in Delineated Associations on the Nevada Wild Horse Range, and Estimates of Area and Vegetative Production within those Range Sites and Associations during June 1999 (Continued)**

Association	Range Site Number	% of Association	Area (acres)	Production (lbs./acre)	Perennial Grass Production			Data Source <sup>e</sup>
					Actual (%)	PNC <sup>c</sup> (%)	lbs./acre	
I	029XY020	40	2,811	400	0	25	0	20A
	029XY017	30	2,108	388	4	35	16	17B, 17C
	029XY059	25	1,757	413	0	10	0	59A, 59B
	029XY090	5	351	1,617	14	40	221	90D
			<b>7,027</b>	<b>460.50</b>			<b>16</b>	
J	029XY042	85	2,089	787	1	55	9	42C
	029XY020	10	246	400	0	25	0	20A
	029XY090	5	123	637	38	40	245	90B
			<b>2,458</b>	<b>740.80</b>			<b>20</b>	
K	029XY016	65	14,767	559	38	40	211	16B, 16C
	029XY046	20	4,543	261	23	45	60	46F
	029XY090	10	2,272	637	38	40	245	90B
	029XY042	5	1,136	787	1	55	9	42C
			<b>22,718</b>	<b>518.60</b>			<b>174</b>	
L	029XY046	45	8,328	1,755	0	45	1	46D
	029XY042	40	7,403	711	1	55	4	42D
	029XY090	7	1,296	450	61	40	275	90E
	029XY020	5	925	400	0	25	0	20A
	029XY012	3	555	768	28	70	212	12C
			<b>18,507</b>	<b>1,148.69</b>			<b>27</b>	
M	029XY090	75	8,101	450	61	40	275	90E
	029XY046	20	2,160	633	8	45	54	46E
	029XY006	5	540	700	9	50	63	06D
			<b>10,801</b>	<b>499.10</b>			<b>220</b>	
N	029XY006	75	6,272	700	9	50	63	06D
	029XY042	15	1,254	700	2	55	14	42E
	029XY008	10	836	747	2	50	13	08D
			<b>8,362</b>	<b>704.70</b>			<b>51</b>	
O	029XY017	60	1,548	300	0	35	0	17A
	029XY020	20	515	392	6	25	22	20B
	029XY042	20	515	711	1	55	4	42D
			<b>2,578</b>	<b>400.60</b>			<b>5</b>	
P	No Data <sup>f</sup>	No Data	7,855	No Data	No Data	No Data	No Data	No Data
Q	029XY006	40	2,415	534	12	50	66	06C
	029XY016	30	1,811	553	34	40	188	16A
	029XY090	20	1,208	1,009	40	40	408	90C
	029XY012	5	302	768	28	70	212	12C
	029XY087	5	302	322	13	45	43	87A
			<b>6,038</b>	<b>635.80</b>			<b>177</b>	

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**Table 4. Range Sites Identified in Delineated Associations on the Nevada Wild Horse Range, and Estimates of Area and Vegetative Production within those Range Sites and Associations during June 1999 (Continued)**

Association	Range Site Number	% of Association	Area (acres)	Production (lbs./acre)	Perennial Grass Production			Data Source <sup>e</sup>
					Actual (%)	PNC <sup>c</sup> (%)	lbs./acre	
Playa	N/A	N/A	<b>6,944</b>	N/A	N/A	N/A	N/A	N/A
Mountain	N/A	N/A	<b>185,163</b>	N/A	N/A	N/A	N/A	N/A

<sup>a</sup> Bolded italicized values are the total area of each association.

<sup>b</sup> Bolded values are total production for the association, based on the proportion of the association composed of each range site and the production within the range sites.

<sup>c</sup> PNC = Potential Natural Climax. Potential percent grass production under climax conditions.

<sup>d</sup> Bolded values are perennial grass production for the associations, based on the proportion of the association composed of each range site and the production within the range sites.

<sup>e</sup> Production data for associations or range sites with two sources of data were calculated as the mean of the two sample locations.

<sup>f</sup> No data were collected from association "P" due to restrictions accessing the area.

**Table 5. Production, Condition Rating, and Trend of Vegetation at 40 Sample Locations on the Nevada Wild Horse Range**

Range Site	Sample Location	Production (lbs./acre)	Condition	Trend
029XY006NV	06A	1,120	Mid-seral (Fair)	Not Apparent
	06B	594	Mid-seral (Fair)	Not Apparent
	06C	534	Mid-seral (Fair)	Not Apparent
	06D	700 <sup>a</sup>	Mid-seral (Fair)	Not Apparent
	06E	750 <sup>a</sup>	Late Seral (Good)	Improving
	<b>Mean</b>	<b>740</b>		
029XY008NV	08A	871	Mid-seral (Fair)	Not Apparent
	08B	378	Mid-seral (Fair)	Not Apparent
	08C	669	Mid-seral (Fair)	Not Apparent
	08D	747	Mid-seral (Fair)	Declining
	<b>Mean</b>	<b>666</b>		
029XY012 NV	12B	501	Mid-seral (Fair)	Not Apparent
	12C	768	Late Seral (Good)	Not Apparent
	<b>Mean</b>	<b>623</b>		
029XY014 NV	14A	<b>425<sup>a</sup></b>	Late Seral (Good)	Improving
029XY016NV	16A	553	Mid-seral (Fair)	Not Apparent
	16B	602	Late Seral (Good)	Not Apparent
	16C	516	Mid-seral (Fair)	Declining
	<b>Mean</b>	<b>557</b>		
029XY017NV	17A	300 <sup>a</sup>	Early Seral (Poor)	Declining
	17B	450 <sup>a</sup>	Late Seral (Good)	Not Apparent
	17C	325 <sup>a</sup>	Early Seral (Poor)	Declining
	<b>Mean</b>	<b>358</b>		

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**Table 5. Production, Condition Rating, and Trend of Vegetation at 40 Sample Locations on the Nevada Wild Horse Range (Continued)**

<i>Range Site</i>	<i>Sample Location</i>	<i>Production (lbs./acre)</i>	<i>Condition</i>	<i>Trend</i>
029XY020NV	20A	400 <sup>a</sup>	Mid Seral (Fair)	Declining
	20B	392	Late Seral (Good)	Declining
	<b>Mean</b>	<b>396</b>		
029XY022NV	22A	<b>535</b>	Late Seral (Good)	Not Apparent
029XY042NV	42B	500 <sup>a</sup>	Mid-seral (Fair)	Declining
	42C	787	Mid-seral (Fair)	Not Apparent
	42D	711	Mid-seral (Fair)	Not Apparent
	42E	700 <sup>a</sup>	Mid-seral (Fair)	Not Apparent
	<b>Mean</b>	<b>675</b>		
029XY046NV	46A	1,679	Late Seral (Good)	Not Apparent
	46B	664	Late Seral (Good)	Improving
	46D	1,755	Mid-seral (Fair)	Declining
	46E	633	Late Seral (Good)	Not Apparent
	46F	261	Mid-seral (Fair)	Not Apparent
	<b>Mean</b>	<b>998</b>		
029XY049NV	49A	<b>628</b>	Mid-seral (Fair)	Not Apparent
029XY059NV	59A	575 <sup>a</sup>	Mid-seral (Fair)	Declining
	59B	250 <sup>a</sup>	Early Seral (Poor)	Declining
	<b>Mean</b>	<b>413</b>		
029XY087NV	87A	322	Mid-seral (Fair)	Declining
	87B	750 <sup>a</sup>	Late Seral (Good)	Improving
	<b>Mean</b>	<b>536</b>		
029XY090NV	90A	419	Early Seral (Poor)	Declining
	90B	637	Late Seral (Good)	Not Apparent
	90C	1,009	Mid-seral (Fair)	Not Apparent
	90D	1,617	Mid-seral (Fair)	Improving
	90E	450 <sup>a</sup>	Mid-seral (Fair)	Not Apparent
	<b>Mean</b>	<b>826</b>		

<sup>a</sup> Production was estimated by ocular method.

The high production measured at many sample locations may have been the result of the timing of precipitation events immediately prior to field data collection. Production data were collected within days after a series of precipitation events. The additional precipitation could have provided plants (particularly shadscale saltbush and fourwing saltbush) with a fresh store of water that could have added to the fresh-weight of the harvested plants. These two species (particularly shadscale saltbush) have succulent leaves that can store water. The high production also could have been the result of the phenological and dry-weight conversion factors used to calculate annual air-dry production.



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### 3.2.2 Range Condition and Forage Production

The production data reported in Table 4 includes totals for all plant species, and totals for perennial grasses. Wild horses eat primarily perennial grasses and small amounts of forbs and shrubs (Berger, 1986). The production of perennial grasses on the NWHR during 1999 was much lower than the total production of all species (Table 4). Production of perennial grasses ranged from 0 to 61 percent of the total production per range site, and 17 percent overall. However, many of these range sites have the potential to produce from 40 to 50 percent vegetative production as perennial grasses (reported as PNC in Table 4). Actual perennial grass production at 31 of the 40 sample locations was less than 50 percent of the potential, indicating that these range sites were in less than desired condition.

Of the 40 sample locations, 4 were in poor condition (early seral stage), 24 were in fair condition (mid-seral stage), 12 were in good condition (late seral stage), and no locations were in excellent condition (PNC stage) (Figure 2). Of the WHUA, 6.4 percent was in poor condition, 59.9 percent was in fair condition, 13 percent was in good condition, and none of the area was in excellent condition (Table 6). Approximately 17 percent of the area had sample locations that were in either poor, fair, or good condition.

**Table 6. The Size and Percentage of the Wild Horse Use Area in the Nevada Wild Horse Range in Various Seral Stages<sup>a</sup> (Condition)**

<i>Seral Stage (condition)</i>	<i>Size (acres)</i>	<i>% of WHUA</i>
Early Seral (Poor)	12,998	6.4
Mid-seral (Fair)	122,347	59.9
Late Seral (Good)	26,561	13.0
PNC (Excellent)	0	0
Early Seral to Mid-seral	1,757	0.9
Early Seral to Late Seral	2,108	1.0
Mid-seral to Late Seral	30,519	15.0
Unclassified (Association "P")	7,855	3.8

<sup>a</sup> See Appendix A for an explanation

Sample locations in good condition were generally located in the central part of the NWHR on the east side of the Kawich Mountain Range (Figure 2). Additionally, two of the four sample locations in poor condition were located at the bottom of Kawich Valley, north of the playa. These general patterns may be due to the distribution of water sources across the NWHR. Sample locations in "fair" condition are scattered throughout the NWHR and did not exhibit any particular spatial pattern.

### 3.2.3 Appropriate Management Level (AML)

Sixteen (16) springs or other water bodies were identified as having the potential to provide water to wild horses during a poor rainfall year (waters are shown on Figure 2). Based on the perennial grass production data collected in 1999, the assumptions and methods listed in Section 2.2.3, and the location of these waters, 2,158,027 pounds of perennial grass would be available to wild horses on the WHMA during a poor rainfall year. Based on this amount of perennial grass production, the AML for the WHMA is 227 wild horses.

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**Table 7. Perennial Grass Production Used to Calculate Appropriate Management Levels  
(all values for perennial grass production are in pounds per year)**

<i>Association</i>	<i>Actual Perennial Grass Production</i>	<i>Perennial Grass Production - Poor Year</i>	<i>Area Near Waters (acres)</i>		<i>Perennial Grass Available</i>
			<i>Within 4 Miles</i>	<i>Between 4 and 8 Miles</i>	
A	1,024,229	381,064	13,927.3	258.6	188,817.4
B	1,012,896	380,215	19,045.6	639.4	187,065.8
C	5,708,932	2,547,428	6,323.3	8,623.1	515,854.2
D	330,185	126,781	4,018.1	338.2	60,918.5
E	870,838	338,911	4,760.9	6,570.0	115,399.3
F	1,132,979	560,487	3,300.2	12,413.1	169,547.3
G	1,069,219	502,782	0.0	1,053.9	30,166.9
H	3,014,556	1,400,410	679.4	12,646.4	229,317.1
I	111,378	43,508	0.0	6,468.0	10,006.8
J	48,914	22,349	0.0	2,267.6	5,151.5
K	3,955,204	1,965,902	4,633.1	15,435.9	534,233.9
L	511,904	223,607	2,396.4	12,834.4	53,218.5
M	2,378,380	1,040,833	0.0	324.3	7,806.2
N	423,535	162,833	1,274.3	1,481.3	19,580.7
O	13,406	5,568	0.0	0.0	0.0
P	761,935	327,632	0.0	0.0	0.0
Q	1,069,632	493,120	0.0	1,516.3	30,943.3
<i>Total</i>	<i>23,438,121</i>	<i>10,523,433</i>	<i>60,358.8</i>	<i>82,870.5</i>	<i>2,158,027.4</i>

### 3.3 VEGETATIVE TREND

Vegetative trend was not apparent in 58 percent of the WHUA (Table 8). This indicates that there was no visible change in vegetation away from its current seral stage. The vegetation was improving in 13 percent of the WHUA and declining in 17 percent of the WHUA (Table 5). Approximately 8 percent of the area had sample locations with trend that was either not apparent or was declining (Table 8).

**Table 8. The Size and Percentage of the Wild Horse Use Area  
in the Nevada Wild Horse Range in Four Trend Classes<sup>a</sup>**

<i>Trend</i>	<i>Acres</i>	<i>Percentage</i>
Improving	26,209	12.8
Not Apparent	118,134	57.9
Declining	35,072	17.2
Not Apparent to Declining	16,875	8.3
Unclassified (Association "P")	7,855	3.8

<sup>a</sup> See Appendix A for an explanation of the trend classes.

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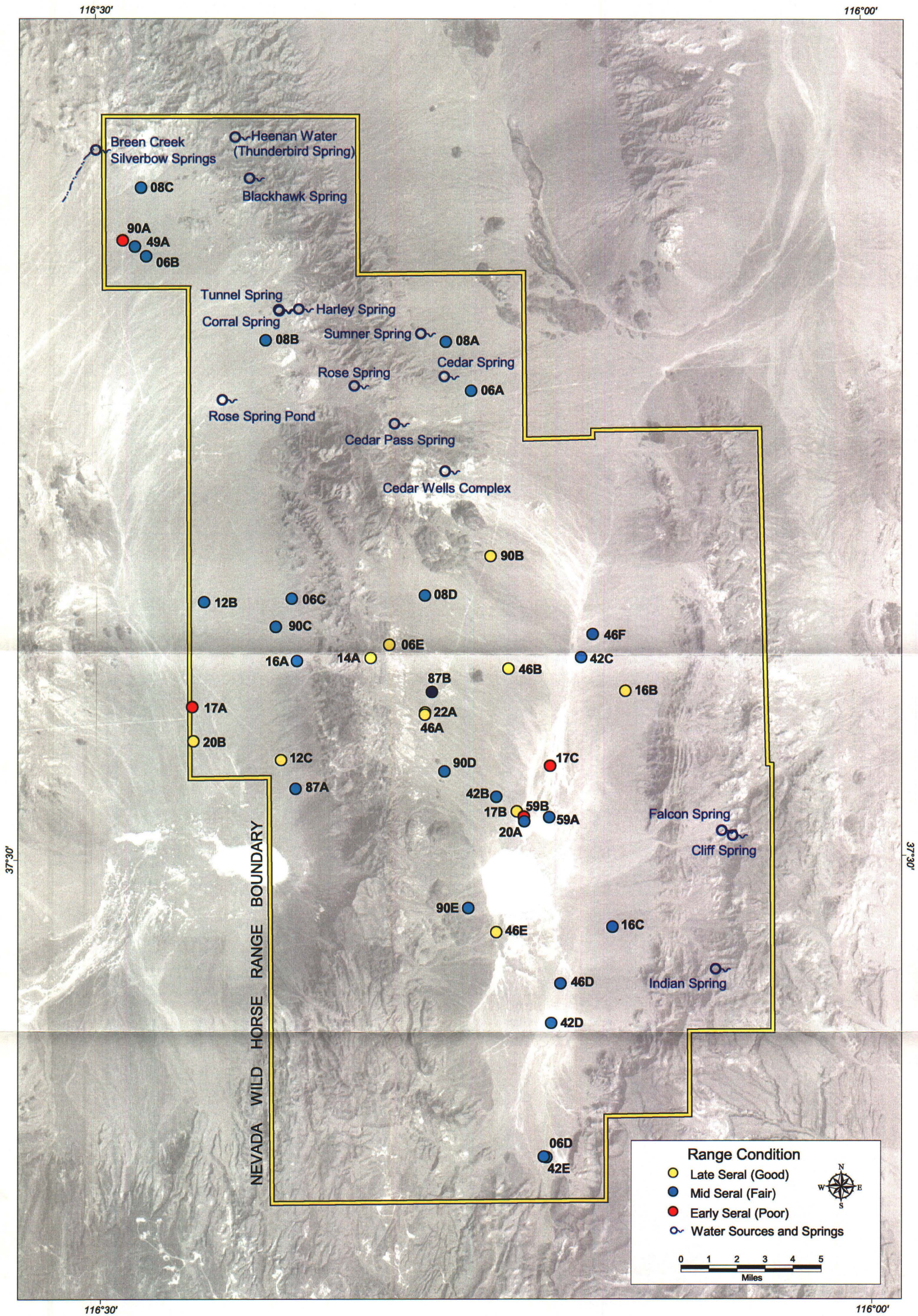


Figure 2. Range Condition on the Nevada Wild Horse Range.



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**4.0 SUMMARY**

Total vegetative production within the WHUA of the NWHR was high, possibly due to precipitation timing and volume during the previous water year. However, 1999 production of forage species favored by wild horses (perennial grasses) was less than 17 percent of the total production of all species. Production of these forage species was generally much lower than their potential production for the sampled range sites, indicating that vegetation in much of the area was in less than ideal condition.

Only 13 percent of the WHUA had vegetation in good condition, 60 percent was in fair condition, and 6 percent was in poor condition. None of the WHUA had vegetation in excellent condition. Condition in approximately 17 percent of the area varied from poor to good.

Based on 1999 perennial grass production data, estimates of grass production in poor years, and location of water, the AML for the NWHR is 227 horses.

The trend of the vegetation was variable. Vegetative trend could not be determined in approximately 58 percent of the sampled area. The condition of the vegetation in approximately 13 percent of the area was improving, while vegetation in approximately 17 percent of the area was declining.

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**APPENDIX A**

**FIELD PROCEDURES USED TO COLLECT RANGE CONDITION DATA  
ON THE NEVADA WILD HORSE RANGE**

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**A. FIELD PROCEDURES USED TO COLLECT RANGE CONDITION DATA  
ON THE NEVADA WILD HORSE RANGE**

This procedure describes the methods used to collect data for the Nellis Range Health Survey on the Nevada Wild Horse Range (NWHR), to determine range condition. This document includes procedures for (1) setting up a sample location; (2) collecting range condition data with the double sampling method; and (3) collecting range inventory data and determining range condition. Three forms are used to document the sample location and collect the required data (1) *Study Location and Documentation Data*; (2) *Total Annual Yield and Composition Record*; and (3) *Range Inventory Worksheet*.

**A.1 SET UP THE SAMPLE LOCATION**

**A.1.1 Identify and Label the Sample Location**

- a. Drive a steel post into the ground at the sample location.
- b. Label an aluminum tag with the name of the sample location and attach the tag to the steel post.
- c. Paint the steel post.

**A.1.2 Complete the Study Location and Documentation Data Form (Illustration 1), using the information provided below:**

**NOTE:** One form is completed for each sample location.

- |    |                           |  |
|----|---------------------------|--|
| a. | Study Method              | List type of data collected at the sample location (condition)   |
| b. | Study Number              | List the name of sample location, which is the last two numbers of the NRCS Range Site name and a consecutive letter (example: 90D is the fourth sample location established in the 029XY090NV range site) |
| c. | Allotment Name and Number | N/A  |
| d. | Pasture                   | N/A  |
| e. | District                  | N/A  |
| f. | Resource Area             | 29   |
| g. | Planning Unit             | N/A  |
| h. | Range Site                | NRCS Range Site name   |
| i. | Plant Community           | N/A  |
| j. | Date Established          | The date the sample location was established   |
| k. | Established by            | List team members by first initial and last name   |
| l. | Map Reference             | List name of USGS 7.5 minute quadrangle map  |
| m. | Elevation                 | Elevation in meters  |
| n. | Slope                     | Percent slope  |
| o. | Exposure                  | Aspect in compass degrees  |
| p. | Aerial Photo Reference    | N/A  |
| q. | Location                  | Location of the sample location in Universal Transverse Mercators (UTMs)   |

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r.	Key Species	List the three key (dominant) species
s.	Distance and Bearing...ref.	N/A
t.	Distance and Bearing...stake	N/A
u.	Transect Bearing	Compass bearing of trend transect
v.	Vertical Distance Between...	Vertical distance between ground and aligned trend transect tape
w.	Length of Transect	100 feet for both condition and trend methods
x.	Plot/Frame Size	9.6 square feet for condition
y.	Sampling Interval	10 feet
z.	Total Number of Samples	10

### **A.1.3 Take Photographs of the Sample Location**

One or two general view color photographs should be taken from the reference (beginning) point of each transect looking down the transect line. Other permanent photo points can be established as deemed appropriate.

## **A.2 COLLECT RANGE CONDITION DATA**

The following equipment is needed to setup the study, collect condition data, and determine a condition class rating.

### **Forms and Tables**

Form - *Study Location and Documentation Data* (Illustration 1)

Form - *Total Annual Yield and Composition Record* (Illustration 2)

Form - *Range Inventory Worksheet* (Illustration 3)

Table - *Ecological Condition Dry Weight and Phenology Factors for Common Plant Species*

### **Equipment and Materials**

Shrub clippers

Spring scale (100 gram capacity)

Paper bags

Plot hoop (9.6 square feet)

Measuring tape (100-foot)

Camera

Print film

Photo Identification Label

Transect stakes (5/8 inch rebar, 2 feet long)

Hammer (2-pound sledge)

Sample location stakes (t-posts)

Aluminum tags

Plant press

Permanent yellow or orange spray paint

Compass

Steel die stamps to create sample location tags

Clipboards

Global Positioning System (GPS) Unit

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**A.2.1 Setup the Condition Transect and Prepare for Data Collection**

- a. Identify the transect location with beginning and end stakes
- b. Label an aluminum tag using the following convention: "association designation" - Sample location name (example A-90D)
- c. Attach the identification tag to the sample location stake with wire
- d. Complete the top section of the *Total Annual Yield and Composition Record* with the following information:
  - 1) Soil Record the soil type from the *Range Site Description*
  - 2) Range Site Record the name of the NRCS Range Site name within which the transect is located
  - 3) Location WHMA
  - 4) Precipitation Record the average annual precipitation for the sample location (found in the NRCS *Range Site Description Handbook*)
  - 5) Elevation Record the elevation of the sample location in meters
  - 6) Exposure Record the exposure or aspect of the sample location
  - 7) Use History Unknown
  - 8) Season of Use All year
  - 9) Slope Record the average percent slope of the sample location
  - 10) Animals Horse, antelope, rabbits
  - 11) Last Burn N/A
  - 12) Ecological Status N/A
  - 13) Plot Size & Shape 9.6 square feet
  - 14) Brush Control N/A
  - 15) Growing Season Indicate the success of the growing season (Poor, Normal, Good) in terms of plant growth, seed production, annual plant numbers, etc.
  - 16) SWA Number Site Write-up Area (SWA) number - record the sample location name (example: 90D)
  - 17) Canopy Record percent of sample location covered by tree canopy - this will be zero for this collection effort
  - 18) SCD N/A
  - 19) Collected by List team members by first initial and last name
  - 20) Date Record the date condition data were collected (the date is recorded on the bottom center of the form)

**A.2.2 Determine Weight Units for Each Species**

- a. Find an area away from the transects with vegetation representative of the sample location, where vegetation can be sacrificed.
- b. Identify a weight unit for each species. Select common shapes or objects to associate with each weight unit (i.e. hand, softball, etc.). For some species, use the entire plant as the unit. Once a weight unit has been established for each species, estimate the number of weight units for each plant in the sample quadrants of the condition transect.



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- c. Weigh the current year's growth of the representative weight unit for each species in grams.
- d. Record the weight (in grams) of the weight unit in the "species code" column of the form.
- e. Production for each species in each sample quadrat is determined by multiplying the estimated number of weight units by the actual weight of the unit.

### **A.2.3 Collect Estimated Production Data**

**NOTE:** The following data will not be collected and will not be recorded on the form: "Plants % Density"; "Stone % Surface"; and "Litter % Surface".

- a. Stretch a 100-foot measuring tape between transect stakes.
- b. Beginning at the 10-foot mark on the measuring tape, lay down the first 9.6-square foot hoop on the right side of the measuring tape, with the side of the hoop centered on the 10-foot mark.
- c. Identify one species in the hoop.
- d. Write the code for that species in column one (*Species/pheno*) of the form.
- e. Count all weight units for that species in the hoop and multiply this number by weight of the weight unit for that species.
- f. Record the total estimated weight (in grams) of the species in the hoop in the appropriate row for that species and the appropriate column (plot number).
- g. Repeat steps "c" through "f" for each species in the hoop.
- h. Move the hoop to the next sample location along the transect.
- i. Repeat steps "c" through "g" for each the following sample locations on the 100-foot transect: 20, 30, 40, 50, 60, 70, 80, 90, 100.

**NOTE:** If a species does not have an assigned weight unit, go to a sacrifice area near the sample location and determine the average weight (in grams) of a weight unit for that species.

### **A.2.4 Collect Clipped and Weighed Production Data**

**NOTE:** All vegetation in two to four of the ten plots for which production was estimated in the section above also will be clipped and weighed to determine actual plant biomass in the sample location.

- a. Identify the numbers of the plots to be clipped and weighed. The plots identified should include the dominant plants on the site and those that are the most important forage species.

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- b. Lay down the hoop on the plots to clipped and weighed. It helps to mark the perimeter of the hoop during the estimation step to ensure the same plants are clipped as were estimated.
- c. Clip and weigh all vegetation for one species in the hoop.
- d. Record the total weight (in grams) of the species in the hoop in the appropriate row for that species in column "C".
- e. Repeat steps "c" and "d" for each species in the hoop.
- f. Move the hoop to the next sample location to be clipped along the transect.
- g. Repeat steps "c" through "e" for each sample location to be clipped on the transect.

**NOTE:** All plant material on the plot is clipped as close to the ground as possible. All old woody growth and foreign material should be carefully removed. Sample only current year's growth. Sampling for production should be done as soon as possible after vegetation has attained maximum growth.

**A.2.5 Determine the Phenological Stage of Each Species**

Referring to Table A-1, record the phenological stage for each species encountered during collection of production data in the "Notes" column.

**Table A-1. Numerical Designation for the Phenological Stage of Plants by Lifeform**

<i>No. of Pheno. Stage</i>	<i>Grasses</i>	<i>Forbs</i>	<i>Shrubs</i>
8	Regrowth	Regrowth	Dormant
7	Cured	Cured	Leaf fall
6	Seed dissemination	Seed dissemination	Seed dissemination
5	Seed ripe	Seed ripe	Seed ripe
4	Peak flower	Peak flower	Peak flower
3	Start flower	Start flower	Start flower
2	Boot stage	Pre-flower	Fully formed leaf
1	Start growth	Start growth	Initiate leaf growth

**A.2.6 Complete the *Total Annual Yield and Composition Record* (Illustration 2)**

**NOTE:** The remainder of the information needed to complete the *Total Annual Yield and Composition Record* can be completed away from the sample location.

- a. Calculate the total estimated weight (in grams) for each species from the ten plots and record the number in column "A".
- b. Calculate the total estimated weight (in grams) for each species from the plots that were also clipped and weighed and record the number in column "B".

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- c. Calculate the total clipped weight (in grams) for each species from the plots that were clipped and weighed and record the number in column "D".
- d. Calculate the Correction Factor by dividing the total clipped weight for each species (column "D") by the estimated weight of each species (column "B"). Record the result in column "E".
- e. Calculate the Total Corrected Green Weight by multiplying the Correction Factor (column "E") by the total estimated weight of each species (column "A"). Record the result in column "F".
- f. Determine the Dry Weight Factor for each species from the Dry Weight section of the *Ecological Condition Dry Weight and Phenology Factors for Common Plant Species* table and record the numbers in column "G".
- g. Calculate the Dry Weight for All Plots value for each species by multiplying the Dry Weight Factor (column "G") by the Total Corrected Green Weight (column "F"). Record the result in column "H".
- h. Determine the Utilization Percentage. Record the result in column "I".
- i. Calculate the Sub-total (column "J") for each species by multiplying the Dry Weight for All Plots (column "H") by the Utilization Percentage (column "I"). Record the result in column "J".
- j. Determine the Phenology Factor for each species from the Phenology section of the *Ecological Condition Dry Weight and Phenology Factors for Common Plant Species* table, and record the numbers in column "K".
- k. Calculate the Total Weight of All Plots for each species by multiplying the Phenology Factor (column "K") by the Sub-total (column "J"). Record the result in column "L".
- l. Determine plant biomass (pounds per acre) for each species. If production data were obtained with a 9.6-square foot plot, then plant biomass equals the Total Weight for All Plots (column "L"). Record the result in column "M".
- m. Obtain the total weight across all species and plots by calculating the sum of all values in column "M". Record the result at the bottom of column "M".
- n. Calculate Percent Composition for each species by dividing the pounds per acre for each species by the sum of column "M".

**A.3 RECORD FIELD INFORMATION ON THE RANGE INVENTORY WORKSHEET (ILLUSTRATION 3)**

**A.3.1 Complete the Top Section of the Range Inventory Worksheet**

- a. Write-up No. N/A

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b.	Site Name	Sample location Name (must match name on <i>Total Annual Yield and Composition</i> and the <i>Study Location and Documentation Form</i> )
c.	Major Land Resource Area (MLRA)	29
d.	Ranch or Soil-232 No.	N/A
e.	Soil Taxonomic Unit	N/A
f.	Photo No.	N/A
g.	Field Office	SAIC-Environmental Sciences Department (ESD)
h.	Location	UTMs
i.	Conservationist	First initial and last names of team
j.	Longitude and Latitude	N/A
k.	Date	Date production data were collected

**NOTE:** Refer to the *Instructions to Range Inventory Worksheet* to complete the following steps.

**A.3.2 Complete the *Range Inventory Worksheet***

- a. Transfer the list of species from the *Total Annual Yield and Composition Record* to column "3" of the *Range Inventory Worksheet*.
- b. Transfer the plant biomass values for each species in column "M" from the *Total Annual Yield and Composition Record* to column "5" of the *Range Inventory Worksheet*.
- c. Transfer the percent composition values for each species in column "N" from the *Total Annual Yield and Composition Record* to column "6" of the *Range Inventory Worksheet*.
- d. Transfer the total weight across all species and plots recorded at the bottom of column "M" to the "Totals" row at the bottom of column "6".
- e. Referring to the NRCS *Range Site Description* for the Sample location, record the appropriate percent of species for each dominant or co-dominant species in column "7".
  - 1) If the species is not listed in the *Range Site Description* no value is recorded.
  - 2) If the species percent-by-weight value is less than the maximum amount allowed in the *Range Site Description*, record the percent-by-weight value calculated from the *Total Annual Yield and Composition Record* data sheet.
  - 3) If the species percent-by-weight value is greater than the maximum amount allowed in the *Range Site Description*, record the maximum amount allowed in the *Range Site Description*.
  - 4) For species that are part of group of species in the *Range Site Description* (example other perennial grasses), ensure the rules stated in the *Range Site Description* regarding these species are followed.
- f. Calculate the Plant Group Percent Composition (weight only) for Grasses and Grass-like Plants, Forbs and Trees and Shrubs by calculating the sum of column "5" for each plant group and dividing that value by the total weight value recorded at the bottom of column "6". Repeat for each plant group.
- g. Obtain the Total Percent Climax by Weight by calculating the sum of column "7". Record the results in the "Totals" row of column "7".

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- h. Circle the range class (25-0, 50-26, 75-51, and 100-76) in the % Climax Vegetation column that encompasses the value derived in step "g".
- i. In the Species Diversity column, document how many dominant and co-dominant species are missing from the site, based on those species listed in the *Range Site Description*.
- j. In the Production % column, document the amount of total annual production (air-dry weight) of native plants present on a site related to the potential production of the climax vegetation for the site. During above or below average years, use the upper or lower production figures, respectively, listed on the *Range Site Description*.
- k. Record in the Condition Rating column, the final condition rating based on consideration of the three condition class indicators.
- l. Use the following guidance and definitions to rate plant vigor, age class distribution and soil erosion for determining apparent trend at the site.

Plant Vigor is the size of a plant and its parts in relation to its age and the environment in which it is growing. Assign the appropriate value rating for each plant vigor class as indicated. Values intermediate to those stated here may be used.

Decreaser Plants are climax community plant species that respond quickly to misuse by decreasing in relation to other plants in the community.

Increaser Plants are climax community plant species that respond to misuse, at least initially, by increasing relative to other plants in the community. Other plants in the community are called increasers.

Invader Plants are plant species, not considered part of the climax plant community, that move into the community--often becoming prominent and persistent.

Determining Plant Vigor

Decreaser Plants:

**Low Vigor (Rating -2)** - Plants decadent; bunch grasses having dead crown centers and much of outer crown ring dead; plants short-statured with little new growth; seedstalks few and short; severe hedging apparent on shrubs; sod grasses thinning.

**Moderate Vigor (Rating 0)** - Moderate amount of new growth and seed stalks; bunch grasses have dead crown centers with healthy but stunted outer crown ring; moderate hedging of shrubs; sod grasses short-statured.

**High Vigor (Rating +2)** - Grasses robust with numerous leaves, seedstalks tall and numerous; bunch grass crowns full and healthy appearing; shrubs not hedged or high-lined. Plants healthy, producing high yields of new growth and viable seed.

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Determining Age Class Distribution

**Decreasers** - Assign value ratings as: Many young plants > 1 year old = 2; Good representation of all age classes = 1; Mostly mature and some decadent plants = -1. Mostly old and decadent plants = -2.

**Increasers/Invaders** - Assign value ratings as: Many young plants > 1 year old = 2; Good representation of all age classes = 1; Mostly mature and some decadent plants = -1. Mostly old and decadent plants = -2.

Determining Soil Erosion

**None (Rating +4)** - Assign class ratings as None = +4; Slight = +1; Moderate = -1; and Severe = -4. No visual evidence of soil movement. Litter is accumulating in place and there is no evidence of pedestalling of plants or rocks. Cryptogamic mat extends into interspaces and has a smooth rounded appearance.

**Slight (Rating +1)** - Little visual evidence of soil movement. Persistent surface litter where present is accumulating in place. Weather or lichen lines on stones or rock fragments are not apparent. Slight pedestalling of plants and rock is evident in flow patterns. Cryptogamic mat shows early signs of deterioration.

**Moderate (Rating -1)** - Soil movement is detectable. Persistent surface litter is deposited against obstacles. Weather or lichen lines on stones or rock fragments do not extend to soil surface. Considerable pedestalling of plants and rocks is evident. Cryptogamic mat appears broken and is restricted to protected areas.

**Severe (Rating -4)** - Soil movement occurs with each runoff or aeolian event. Persistent surface litter and cryptogams are absent. Stones or rock fragments are pedestalled.

Determining Apparent Trend

The sum of Plant Vigor, Age Class Distribution, and Soil Erosion indicates apparent trend. >5 = Improving; 5 to 0 = Not Apparent; <0 = Declining. Negative values indicate declining site condition.

- m. Use the following guidance to complete the Site History Section of the *Range Inventory Worksheet*. Complete this section when site is in good or excellent condition, when useful in planning or when specified in resource inventories.

**Use History** - Show past grazing history of the area: None, slight, moderate, heavy.

**Season of Use** - Show season(s) when area is grazed: (-) = unknown, spring, summer, fall, winter.

**Wildlife Species** - Show kinds of wildlife expected or in evidence on the site: deer, badger, quail, etc.

**Burning History** (-) = unknown; 1 = rarely, if ever, burned; 2 = occasionally burned; 3 = systematically burned; 4 = burned \_\_\_\_ years ago (enter code and years).



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**Logging History** (-) = unknown; 1 = not logged; 2 = logged \_\_\_\_ years ago (enter code and years).

**Cropping History** (-) = unknown; 1 = not cropped; 2 = cropped \_\_\_\_ years ago (enter code and years).

- n. Complete the Site History Section of the *Range Inventory Worksheet*

**NOTE:** The following parts of the Physiography Section are optional: (1) Depth of Watertable; (2) Drainage Class; (3) Frequency of Flooding or Ponding; and (4) Duration of Flooding or Ponding.

- o. Determine present utilization as a percent of the key species being grazed.

**NOTE:** The following general sections are optional: (1) Treatment Needs; (2) Special Considerations; and (3) Associated Sites.

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT  STUDY LOCATION & DOCUMENTATION DATA									
STUDY METHOD					STUDY NUMBER				
ALLOTMENT NAME & NUMBER					PASTURE				
DISTRICT			RESOURCE AREA			PLANNING UNIT			
RANGE SITE					PLANT COMMUNITY				
DATE ESTABLISHED			ESTABLISHED BY (NAME)			MAP REFERENCE			
ELEVATION (m)		SLOPE		EXPOSURE(°)		AERIAL PHOTO REFERENCE			
TOWNSHIP		RANGE		SECTION		1/4	1/4	1/4	
LOCATION					UTM: Easting		Northing		SCALE: _____ INCHES
KEY SPECIES									
1	2	3							
DISTANCE & BEARING BETWEEN REFERENCE POST OR REFERENCE POINT AND THE TRANSECT LOCATION STAKE, BEGINNING OF TRANSECT, OR PLOT									
DISTANCE & BEARING BETWEEN LOCATION STAKE & BEARING STAKE									
TRANSECT BEARING					VERTICAL DISTANCE BETWEEN GROUND & ALIGNED TAPE				
LENGTH OF TRANSECT					PLOT/FRAME SIZE				
SAMPLING INTERVAL					TOTAL NUMBER OF SAMPLES				
NOTES (DESCRIPTION OF STUDY LOCATION, DIAGRAM OF TRANSECT/PLOT LAYOUT, DESCRIPTION OF PHOTO POINTS, ETC. IF MORE SPACE IS NEEDED, USE REVERSE SIDE OR ANOTHER PAGE.)									

**Illustration 1. Study Location and Documentation Data.**

Soil: \_\_\_\_\_ Range Site: \_\_\_\_\_ Location: \_\_\_\_\_ S: \_\_\_\_\_ T: \_\_\_\_\_ R: \_\_\_\_\_

Precipitation: \_\_\_\_\_ Elev.(m) \_\_\_\_\_ Aspect: \_\_\_\_\_ Use History: \_\_\_\_\_ Season of Use: \_\_\_\_\_ Slope: \_\_\_\_\_  
(Light, Medium, Heavy)

Animals: \_\_\_\_\_ Last Burn: \_\_\_\_\_ Ecological Status: \_\_\_\_\_ Plot Size/Shp: \_\_\_\_\_ Brush Control: \_\_\_\_\_  
(kind) (Date)

Growing season: \_\_\_\_\_ SWA Number: \_\_\_\_\_ Canopy: \_\_\_\_\_ SCD: \_\_\_\_\_ Recorders: \_\_\_\_\_  
(good, normal, poor) (% Tree shade)

											A	B	C		D	E	F	G	H	I	J	K	L	M	N								
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated	Clipped weights					Tot. Corr. Green Wt.	Dry Wt. Fact.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. All Plots	Lbs/ Acre	% Comp								
Plants % density											Tot. All	Tot. Circ.	plot #	Tot. Green Wt.	Corr. Fact.	Green Wt.	Wt. Fact.	Plots	%	Total	Factor	All Plots	Acre	Comp									
Stone % surface											Weight in grams																						
Litter % surface																																	
Species/Pheno.																																	
Yield (grams)											Date						Tot.																

Illustration 2. Total Annual Yield and Composition Record.

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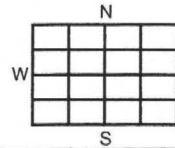
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_  
 Ranch or Soil-232 No. \_\_\_\_\_  
 Photo No. \_\_\_\_\_  
 Soil Taxonomic Unit \_\_\_\_\_  
 Field Office \_\_\_\_\_  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist \_\_\_\_\_ Date: \_\_\_\_\_

MLRA \_\_\_\_\_ Write-up No. \_\_\_\_\_



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)					
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating	
Grasses & Grass-Like Plants							100-76	0	100-76	Excellent (PNC)		
							75-51	1-2	75-51	Good (Late Seral)		
							50-26	3-4	50-26	Fair (Mid Seral)		
							25-0	>4	25-0	Poor (Early Seral)		
							Final Condition Rating MID-SERAL					
% Weight							Trend Indicators	Plant Vigor Decreasers		Apparent Trend (Circle One)		
								Age Class Distribution Decreasers			Improving	
% Cover								Increaser/Invaders		Declining		
								Soil Erosion				
							Total		Not Apparent			
% Weight							Site History	Use History:				
								Kind of Animal:				
Season of Use:												
Wildlife Species:												
Burning History:												
Logging History:												
% Cover							Cropping History:					
Trees & Shrubs							Physiography	Elevation (m)	Slope	Azimuth (°)		
								Major or Component Landform				
								Slope Component (Circle one)		Crest	Summit	Shoulder
										Backslope	Footslope	
Kind of Slope (Circle one)		Straight	Concave	Convex								
		Microrelief:										
% Weight							Depth of Watertable:					
							Drainage Class:					
% Cover							Frequency of Flooding or Ponding:					
							Duration of Flooding or Ponding:					
(8)	Present Utilization		% of	(Key Species)								
Notes:												
Treatment Needs:												
Special Considerations (e.g. critical habitat, riparian zone, etc.):												
Associated Sites:												

**Illustration 3. Range Inventory Worksheet.**

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**APPENDIX B  
SAMPLE LOCATION DATA**



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**Table B-1. Sample Location Data**

<i>Association</i>	<i>Range Site Number</i>	<i>Sample Location</i>	<i>UTM: easting</i>	<i>UTM: northing</i>	<i>Elevation (m)</i>	<i>Slope (%)</i>	<i>Aspect (degrees)</i>
A	029XY006	06A	565551	4177566	1907	3-4	68
	029XY008	08A	564094	4180388	1950	4-5	84
B	029XY006	06B	546843	4185298	1821	3	211
	029XY008	08B	553716	4180448	1935	3-4	249
	029XY008	08C	546535	4189215	1894	2-3	240
	029XY049	49A	546207	4185851	1823	2-3	191
	029XY090	90A	545502	4186214	1824	1-2	220
C	029XY012	12B	550235	4165379	1615	0-1	227
	029XY012	12C	554645	4156304	1587	2	239
	029XY090	90C	554353	4163953	1713	3	271
E	029XY006	06E	560861	4162930	1909	4-6	134
	029XY008	08D	562914	4165758	1862	3	130
	029XY014	14A	559799	4162179	1972	10	46
	029XY090	90B	566701	4168053	1815	3	131
G	029XY022	22A	562938	4159046	1782	4-5	113
	029XY046	46A	562918	4158919	1777	5	151
	029XY087	87B	563327	4160231	1792	3-5	90
H	029XY042	42B	567025	4154175	1619	0-1	121
	029XY046	46B	567722	4161566	1701	1	117
	029XY090	90D	564057	4155631	1687	3	120
I	029XY017	17B	568216	4153350	1598	0-1	133
	029XY017	17C	570132	4155968	1610	1-2	301
	029XY020	20A	568630	4153050	1595	0	flat
	029XY059	59A	570079	4153009	1599	0	flat
	029XY059	59B	568641	4152773	1597	0	flat
J	029XY042	42C	571921	4162231	1657	0-1	265
K	029XY016	16B	574475	4160301	1710	2-3	285
	029XY016	16C	573717	4146727	1646	2-3	275
	029XY046	46F	572589	4163553	1669	0-1	281
L	029XY042	42D	570199	4141183	1612	0-1	112
	029XY046	46D	570732	4143471	1599	0-1	106
M	029XY046	46E	567041	4146431	1602	0-1	69
	029XY090	90E	565428	4147791	1607	3-4	99

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**Table B-1. Sample Location Data (Continued)**

<i>Association</i>	<i>Range Site Number</i>	<i>Sample Location</i>	<i>UTM: easting</i>	<i>UTM: northing</i>	<i>Elevation (m)</i>	<i>Slope (%)</i>	<i>Aspect (degrees)</i>
N	029XY006	06D	569778	4133484	1696	1-3	45
	029XY042	42E	569928	4133446	1696	2-3	315
O	029XY017	17A	549549	4159352	1554	0-1	227
	029XY020	20B	549625	4157383	1551	1-2	270
P	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q	029XY006	06C	555269	4165574	1772	6	276
	029XY016	16A	555567	4161994	1739	4-5	263
	029XY087	87A	555483	4154634	1585	2	273

**APPENDIX C**

***TOTAL ANNUAL YIELD AND COMPOSITION RECORD FORMS***

These forms contain production data collected during range condition sampling.

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### TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b> Loamy		<b>Range Site:</b> 029XY006NV				<b>Location:</b> NWHR		<b>S:</b> NA	<b>T:</b> NA	<b>R:</b> NA																															
<b>Precipitation:</b> 8-10		<b>Elev.(m)</b> 1907		<b>Aspect:</b> 68		<b>Use History:</b> Unknown <small>(Light, Medium, Heavy)</small>		<b>Season of Use:</b> All year		<b>Slope:</b> 3-4																															
<b>Animals:</b> horses, antelope, rabbits <small>(kind)</small>				<b>Last Burn:</b> NA <small>(Date)</small>		<b>Ecological Status:</b> NA		<b>Plot Size/Shp:</b> 9.6 ft		<b>Brush Control:</b> NA <small>(Date)</small>																															
<b>Growing season:</b> Good <small>(good, normal, poor)</small>		<b>SWA Number:</b> 06A				<b>Canopy:</b> 0% <small>(% Tree shade)</small>		<b>SCD:</b> NA		<b>Recorders:</b> K.BLOMQUIST; S.KOZUSKO																															
Denotes clipped plots		X																																							
Plot number		1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																											
Plants % density																																									
Stone % surface																																									
Litter % surface																																									
Species/Pheno.		Weight in grams										Tot. All		Tot. Circ.		plot # 2		Green Wt.		Corr. Fact.		Green Wt.		Dry Wt.		All Plots		Util. %		Sub-Total		Pheno Factor		Tot. Wt. All Plots		Lbs/Acre		% Comp		Notes (Phen. Factor)	
HIJA		5			8	5	5.5	13	4	2	10	52.5	2		1	1	0.5	26.25	0.38	9.975		9.975	3.64	36.31	36.31	3.2%	2														
ACHY			5			T						5	5	5	5	5	1	5	0.39	1.95		1.95	3.27	6.377	6.377	0.6%	2														
SIHY			5	17		5					35	62	40	7	36	43	1.075	66.65	0.37	24.66		24.66	2.55	62.88	62.88	5.6%	3														
ASLE											7	7	0		0	1	7	0.2	1.4			1.4	1.18	1.652	1.652	0.1%	4														
ERIGERON											T	T															4														
KOAMV											T	T															2														
ATCO									1			1	0		0	1	1	0.18	0.18		0.18	7.14	1.285	1.285		0.1%	3														
CHVI									3		23	26	0		0	1	26	0.32	8.32		8.32	3.9	32.45	32.45		2.9%	2														
ARTRW			155	480	217	310	56	136	62	347	3	1766	502	136	240	376	0.749	1323	0.49	648.1		648.1	1.51	978.7	978.7	87.4%	4														
CACTUS									T			T																													
Yield (grams)												Date		06/07/1999		Tot.										1120		100.0%													

TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	Loamy									<b>Range Site:</b>	029XY006NV				<b>Location:</b>	NWHR	<b>S:</b>	NA	<b>T:</b>	NA	<b>R:</b>	NA						
<b>Precipitation:</b>	8-10	<b>Elev.(m)</b>	1821	<b>Aspect:</b>	211	<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>				<b>Season of Use:</b>	All year			<b>Slope:</b>	3												
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>			<b>Last Burn:</b>	NA <small>(Date)</small>	<b>Ecological Status:</b>	NA				<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>													
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	06B						<b>Canopy:</b>	0% <small>(% Tree shade)</small>		<b>SCD:</b>	NA		<b>Recorders:</b>	V. WINKEL; M. MAIN											
Dentes clipped plots	X			X																								
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights															
Plants % density																												
Stone % surface																												
Litter % surface																												
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Green Wt.	Dry Wt. Fact.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. All Plots	Lbs/ Acre	% Comp	Notes <small>(Phen. Factor)</small>			
ACHY	5	2	T		T			1	1	4	13	5	8		8	1.8	20.8	0.41	8.528		8.528	2.31	19.7	19.7	3.3%	3		
SIHY	1	T	T	8	2			T			11	3	1.5	2	3.5	1.167	12.83	0.43	5.518		5.518	1.79	9.878	9.878	1.7%	4		
STCO				4	3	3	4	3	1		18	4		4	4	1	18	0.4	7.2		7.2	1.88	13.54	13.54	2.3%	3		
HIJA							1				1	0			0	1	1	0.38	0.38		0.38	3.64	1.383	1.383	0.2%	2		
MACA	T				T						T														T	2		
ARTRW	144	180	144	90	216			30	90		894	360	80	204	284	0.789	705.3	0.49	345.6		345.6	1.51	521.8	521.8	87.8%	4		
GRSP	3		8								11	3			0	1	11	0.13	1.43		1.43	2.86	4.09	4.09	0.7%	2		
CHVI			4	2	13	1			T		20	13		10	10	0.769	15.38	0.32	4.923		4.923	3.9	19.2	19.2	3.2%	2		
ATCA							3				3	0			0	1	3	0.16	0.48		0.48	10	4.8	4.8	0.8%	2		
Yield (grams)											Date	06/03/1999				Tot.											594.4	100.0%



**TOTAL ANNUAL YIELD AND COMPOSITION RECORD**

<b>Soil:</b>	Loamy										<b>Range Site:</b>	029XY006NV					<b>Location:</b>	NWHR		<b>S:</b>	NA		<b>T:</b>	NA		<b>R:</b>	NA	
<b>Precipitation:</b>	8-10		<b>Elev.(m)</b>	1772			<b>Aspect:</b>	276			<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>					<b>Season of Use:</b>	All year				<b>Slope:</b>	6					
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>					<b>Last Burn:</b>	NA <small>(Date)</small>					<b>Ecological Status:</b>	NA					<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>						
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	06C							<b>Canopy:</b>	0% <small>(% Tree shade)</small>			<b>SCD:</b>	NA		<b>Recorders:</b>	V. WINKEL, S. PETERSEN									
Denotes clipped plots			X				X				A	B	C	D	E	F	G	H	I	J	K	L	M	N				
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights															
Plants % density																												
Stone % surface																												
Litter % surface											Tot.	Tot.	plot #	Green	Corr.	Green	Dry	Dry				Tot.						
Species/Pheno.	Weight in grams										All	Circ.	4	7	Wt.	Fact.	Wt.	Fact.	Plots	Util.	Sub-	Pheno	All	Lbs/	%	Notes		
SIHY	7.5	12	6	3			T	3	7.5		39	3	3		3	1	39	0.43	16.77		16.77	1.79	30.02	30.02	5.6%	4		
HIJA		2	8	5	15		4		2		36	9	6	4	10	1.111	40	0.32	12.8		12.8	2.68	34.3	34.3	6.4%	3		
ACHY							T	0.5			0.5	0.5		1.5	1.5	3	1.5	0.39	0.585		0.585	3.27	1.913	1.913	0.4%	2		
ASLE	T										T														T	4		
CHVI	21		24	18.2	11.2						74.4	18.2	22		22	1.209	89.93	0.32	28.78		28.78	3.9	112.2	112.2	21.0%	2		
ARTRW		87.5	170	150			200	40			647.5	350	127	133	260	0.743	481	0.49	235.7		235.7	1.51	355.9	355.9	66.6%	4		
EPNE				T			T				T														T	2		
KRLA									T		T														T	2		
Yield (grams)											Date	06/08/1999				Tot.										534.4	100.0%	

## TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:	Shallow Calcareous Loam										Range Site:	029XY008NV				Location:	NWHR		S:	NA		T:	NA		R:	NA							
Precipitation:	8-10		Elev.(m)	1950		Aspect:	84				Use History:	Unknown <small>(Light, Medium, Heavy)</small>				Season of Use:	All year				Slope:	4-5											
Animals:	horses, antelope, rabbits <small>(kind)</small>					Last Burn:	NA <small>(Date)</small>					Ecological Status:	NA				Plot Size/Shp:	9.6 ft		Brush Control:	NA <small>(Date)</small>												
Growing season:	Good <small>(good, normal, poor)</small>		SWA Number:	08A							Canopy:	0% <small>(% Tree shade)</small>				SCD:	NA		Recorders:	K.BLOMQUIST;S.KOZUSKO													
Denotes clipped plots	X		X		A		B		C		D		E		F		G		H		I		J		K		L		M		N		
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated	Clipped weights																					
Plants % density											Tot.	Tot.	plot #	Tot.	Green	Corr.	Tot.	Green	Dry	Dry	Util.	Sub-	Pheno	Tot.	Wt.	Lbs/	%	Notes					
Stone % surface											All	Circ.	3	8	Wt.	Fact.	Wt.	Fact.	Plots	%	Total	Factor	Plots	Acre	Comp	(Phen. Factor)							
Litter % surface											Weight in grams																						
Species/Pheno.																																	
HIJA			5	1		1					7	5	6		6	1.2	8.4	0.37	3.108		3.108	3.79	11.78	11.78	1.4%	1							
SIHY		3	5		5		12	20	2		47	25	6	23	29	1.16	54.52	0.37	20.17		20.17	2.55	51.44	51.44	5.9%	3							
ACHY				T							T														T	2							
ASLE		8									8	0			0	1	8	0.19	1.52		1.52	6.83	10.38	10.38	1.2%	2							
ARNO		120	130	120	150	12	345	105	155	68	1205	235	154	98	252	1.072	1292	0.48	620.2		620.2	1.28	793.9	793.9	91.2%	3							
EPNE										4	4	0			0	1	4	0.38	1.52		1.52	2.12	3.222	3.222	0.4%	2							
Yield (grams)											Date	06/08/1999				Tot.																870.7	100.0%

**TOTAL ANNUAL YIELD AND COMPOSITION RECORD**

<b>Soil:</b> Shallow Calcareous Loam		<b>Range Site:</b> 029XY008NV		<b>Location:</b> NWHR		<b>S:</b> NA	<b>T:</b> NA	<b>R:</b> NA																			
<b>Precipitation:</b> 8-10	<b>Elev.(m)</b> 1935	<b>Aspect:</b> 249		<b>Use History:</b> Unknown <small>(Light, Medium, Heavy)</small>		<b>Season of Use:</b> All year		<b>Slope:</b> 3-4																			
<b>Animals:</b> horses, antelope, rabbits <small>(kind)</small>		<b>Last Burn:</b> NA <small>(Date)</small>		<b>Ecological Status:</b> NA		<b>Plot Size/Shp:</b> 9.6 ft		<b>Brush Control:</b> NA <small>(Date)</small>																			
<b>Growing season:</b> Good <small>(good, normal, poor)</small>	<b>SWA Number:</b> 08B		<b>Canopy:</b> 0% <small>(% Tree shade)</small>		<b>SCD:</b> NA	<b>Recorders:</b> K.BLOMQUIST; S.KOZUSKO; M.HESSING																					
Denotes clipped plots	X		X		A	B	C	D	E	F	G	H	I	J	K	L	M	N									
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights														
Plants % density																											
Stone % surface																											
Litter % surface																											
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Green Wt.	Dry Wt.	All Plots	Util. %	Sub-Total	Pheno Factor	All Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)		
HIJA		2	1	5								8	2	3	1.5	12	0.37	4.44		4.44	3.79	16.83	16.83	4.5%	1		
SIHY	1.5	2.5		3	2	4	3	3	T			19	5.5	7	8	15	2.727	51.82	0.43	22.28		22.28	1.79	39.88	39.88	10.6%	4
ACHY			3				2					5	2		2	1	5	0.39	1.95	1.11	2.165	3.27	7.078	7.078	1.9%	2	
BRTE	T								T			T													T	4	
SPAM			1									1	0		0	1	1	0.19	0.19		0.19	6.83	1.298	1.298	0.3%	2	
ERIGERON			1						1			2	0		0	1	2	0.14	0.28		0.28	1.11	0.311	0.311	0.1%	3	
MACA									T			T													T	1	
CHVI							T					T													T	2	
ATCO					24	30						54	0		0	1	54	0.18	9.72		9.72	7.14	69.4	69.4	18.4%	3	
ARNO	58.5	65.5	13	104	15.6	26	78	26		7.8	394.4	143.5	82.5	58	140.5	0.979	386.2	0.48	185.4		185.4	1.28	237.3	237.3	62.8%	3	
KOAMV			3.6		1.8	T	T					5.4	0		0	1	5.4	0.39	2.106		2.106	2.7	5.686	5.686	1.5%	2	
Yield (grams)											Date	06/07/1999		Tot.												377.7	100.0%

TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	Shallow Calcareous Loam										<b>Range Site:</b>	029XY008NV				<b>Location:</b>	NWHR	<b>S:</b>	NA	<b>T:</b>	NA	<b>R:</b>	NA					
<b>Precipitation:</b>	8-10	<b>Elev.(m)</b>	1894	<b>Aspect:</b>	240	<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>				<b>Season of Use:</b>	All year				<b>Slope:</b>	2-3											
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>				<b>Last Burn:</b>	NA <small>(Date)</small>	<b>Ecological Status:</b>	NA				<b>Plot Size/Shp:</b>	9.6 ft				<b>Brush Control:</b>	NA <small>(Date)</small>										
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	08C				<b>Canopy:</b>	0% <small>(% Tree shade)</small>				<b>SCD:</b>	NA				<b>Recorders:</b>	K.BLOMQUIST; V.WINKEL									
Denotes clipped plots	X	X																										
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights															
Plants % density																												
Stone % surface																												
Litter % surface																												
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Tot. Green Wt.	Corr. Fact.	Tot. Green Wt.	Dry Wt. Fact.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)			
SIHY	12		3	T	5			2			22	15	28	3	31	2.067	45.47	0.43	19.55		19.55	1.79	35	35	5.2%	4		
ACHY			3					T			3	0			0	1	3	0.39	1.17		1.17	3.27	3.826	3.826	0.6%	2		
BRTE		T									T															T		
PHST		T	T		T			T			T															T	2	
ARNO	150	45	75	90	112	45	70	60	40	100	787	225	144	144	288	1.28	1007	0.48	483.5		483.5	1.28	618.9	618.9	92.5%	3		
CHVI								8			8	0			0	1	8	0.32	2.56		2.56	3.9	9.984	9.984	1.5%	2		
KOAMV					1					T	1	0			0	1	1	0.39	0.39		0.39	2.7	1.053	1.053	0.2%	2		
Yield (grams)																											668.8	100.0%
Date	06/03/1999										Tot.																	



### TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	Shallow Calcareous Loam				<b>Range Site:</b>	029XY008NV				<b>Location:</b>	NWHR		<b>S:</b>	NA		<b>T:</b>	NA		<b>R:</b>	NA	
<b>Precipitation:</b>	8-10		<b>Elev.(m)</b>	1862		<b>Aspect:</b>	130		<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>			<b>Season of Use:</b>	All year			<b>Slope:</b>	3			
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>				<b>Last Burn:</b>	NA <small>(Date)</small>		<b>Ecological Status:</b>	NA			<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>					
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	08D				<b>Canopy:</b>	0% <small>(% Tree shade)</small>			<b>SCD:</b>	NA		<b>Recorders:</b>	M.HESSING; S.KOZUSKO; K.BLOMQUIST					

Denotes clipped plots	X				X						A	B	C	D	E	F	G	H	I	J	K	L	M	N						
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																	
Plants % density																														
Stone % surface																														
Litter % surface																														
Species/Pheno.											Tot. All	Tot. Circ.	plot #		Tot. Green Wt.	Corr. Fact.	Tot. Green Wt.	Dry Wt. Fact.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. All Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)				
ACHY		T			1	4	T				5	0			0	1	5	0.39	1.95		1.95	3.27	6.377	6.377	0.9%	2				
HJA			5								5	0			0	1	5	0.37	1.85		1.85	3.79	7.012	7.012	0.9%	1				
SIHY										T	T														T	2				
ASPU				2	T		2			1	5	2		2	1	5	0.19	0.95		0.95	6.83	6.489	6.489	0.9%	2					
UNK. FORB										T	T														T	1				
ATCO	46										46	46	46		46	1	46	0.22	10.12		10.12	2.63	26.62	26.62	3.6%	4				
ARNO	101	56		7	308	7	104	92.4	112	294	1081	205	92	103	195	0.951	1029	0.48	493.8		493.8	1.28	632	632	84.6%	3				
CHVI	11										11	11	11		11	1	11	0.32	3.52		3.52	3.9	13.73	13.73	1.8%	2				
EPNE					68						68	0			0	1	68	0.38	25.84		25.84	2.12	54.78	54.78	7.3%	2				
Yield (grams)											Date	06/08/1999					Tot.												747	100.0%

TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:		Sandy								Range Site:		029XY012NV						Location:		NWHR	S:	NA	T:	NA	R:	NA															
Precipitation:		5-8		Elev.(m)		1615		Aspect:		227		Use History:		Unknown <small>(Light, Medium, Heavy)</small>						Season of Use:		All year				Slope:		0-1													
Animals:		horses, antelope, rabbits <small>(kind)</small>								Last Burn:		NA <small>(Date)</small>		Ecological Status:		NA						Plot Size/Shp:		9.6 ft		Brush Control:		NA <small>(Date)</small>													
Growing season:		Good <small>(good, normal, poor)</small>		SWA Number:		12B		Canopy:		0% <small>(% Tree shade)</small>		SCD:		NA		Recorders:		V.WINKEL; S.PETERSEN; J.GELLER																							
Denotes clipped plots		X						X				A		B		C		D		E		F		G		H		I		J		K		L		M		N			
Plot number		1		2		3		4		5		6		7		8		9		10		Estimated		Clipped weights																	
Plants % density																																									
Stone % surface																																									
Litter % surface																																									
Species/Pheno.		Weight in grams										Tot. All		Tot. Circ.		plot #		Green Wt.		Corr. Fact.		Green Wt.		Dry Wt. Fact.		Dry Wt. All Plots		Util. %		Sub-Total		Pheno Factor		Tot. Wt. All Plots		Lbs/ Acre		% Comp		Notes (Phen. Factor)	
ACHY		77	2.75	33	22		11	13.8	11		27.5	198	88	69	11	80	0.909	180	0.41	73.8		73.8	2.31	170.5	170.5	34.0%	3														
HIJA		7.5	90	45	16.3	22.5						181.3	7.5	5		5	0.667	120.8	0.32	38.67		38.67	2.68	103.6	103.6	20.7%	3														
ASLE				6.5		9.75			6.5			22.75	6.5	7	7	1.077	24.5	0.2	4.9			4.9	1.18	5.782	5.782	1.2%	4														
SAIB						T	T	5	6	3		14	6	6	6	1	14	0.14	1.96			1.96	88.33	173.1	173.1	34.6%	1														
UNK. FORB							T					T													T	1															
MACA								5				5	5	5	5	1	5	0.24	1.2			1.2	1	1.2	1.2	0.2%	4														
KRLA		24.5					1.4	T				25.9	24.5	34		34	1.388	35.94	0.39	14.02		14.02	2.7	37.85	37.85	7.6%	2														
CHVI				T				1.5	9			10.5	1.5	1	1	0.667	7	0.32	2.24			2.24	3.9	8.736	8.736	1.7%	2														
Yield (grams)												Date		06/07/1999						Tot.								500.8		100.0%											

**TOTAL ANNUAL YIELD AND COMPOSITION RECORD**

<b>Soil:</b>	Sandy										<b>Range Site:</b>	029XY012NV				<b>Location:</b>	NWHR		<b>S:</b>	NA		<b>T:</b>	NA		<b>R:</b>	NA	
<b>Precipitation:</b>	5-8		<b>Elev.(m)</b>	1587			<b>Aspect:</b>	239			<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>				<b>Season of Use:</b>	All year				<b>Slope:</b>	2					
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>										<b>Last Burn:</b>	NA <small>(Date)</small>				<b>Ecological Status:</b>	NA				<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>		
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	12C			<b>Canopy:</b>	0% <small>(% Tree shade)</small>				<b>SCD:</b>	NA		<b>Recorders:</b>	K.BLOMQUIST; M.HESSING; S.KOZUSKO											
Denotes clipped plots					X			X			A	B	C	D	E	F	G	H	I	J	K	L	M	N			
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights														
Plants % density																											
Stone % surface																											
Litter % surface																											
Species/Pheno.											Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Green Wt.	Corr. Fact.	Dry Wt.	All Plots	Util. %	Sub-Total	Pheno Factor	All Plots	Lbs/Acre	% Comp	Notes <small>(Phen. Factor)</small>	
ACHY	T	45	1	9	14	2	8	21	7	2	109	35	56	30	86	2.457	267.8	0.44	117.8		117.8	1.79	210.9	210.9	27.5%	4	
HJA			1								1	0			0	1	1	0.38	0.38		0.38	2.46	0.935	0.935	0.1%	4	
BRTE								T			T														T	5	
CRYPTANTHA	T										T														T	4	
SAIB		T	2	3		1	10	T	T		16	0			0	1	16	0.14	2.24		2.24	88.33	197.9	197.9	25.7%	1	
STPA							5				5	0			0	1	5	0.21	1.05		1.05	3.94	4.137	4.137	0.5%	2	
PSFR	14		26.3		10.5						50.75	10.5	25		25	2.381	120.8	0.26	31.42		31.42	3.26	102.4	102.4	13.3%	3	
TEGL				1	16						17	1	1		1	1	17	0.33	5.61		5.61	1.23	6.9	6.9	0.9%	3	
ATCA		64.2	107	27				80.3			278.5	80.25		55	55	0.685	190.8	0.18	34.35		34.35	7.14	245.3	245.3	31.9%	3	
Yield (grams)											Date	06/08/1999				Tot.										768.5	100.0%



## TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:	Loamy Upland										Range Site:	029XY016NV					Location:	NWHR	S:	NA	T:	NA	R:	NA										
Precipitation:	5-8		Elev.(m)	1739			Aspect:	263			Use History:	Unknown (Light, Medium, Heavy)					Season of Use:	All year					Slope:	4-5										
Animals:	horses, antelope, rabbits (kind)					Last Burn:	NA (Date)					Ecological Status:	NA					Plot Size/Shp:	9.6 ft		Brush Control:	NA (Date)												
Growing season:	Good (good, normal, poor)		SWA Number:	16A							Canopy:	0% (% Tree shade)					SCD:	NA		Recorders:	V. WINKEL; S. PETERSEN; J. GELLER													
Dentes clipped plots											A	B	C	D	E	F	G	H	I	J	K	L	M	N										
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																					
Plants % density													Tot.		Tot.		Dry		Dry		Tot.													
Stone % surface													Green		Corr.		Green		Wt.		Pheno		Wt.											
Litter % surface											Tot.		plot #		Green		Corr.		Wt.		Util.		Sub-Total		Pheno		All		Lbs/		% Comp		Notes	
Species/Pheno.	Weight in grams										All	Circ.	6	8	Wt.	Fact.	Wt.	Fact.	Plots	%	Total	Factor	Plots	Acre	Comp	(Phen. Factor)								
ERPU	1.5			13.5	9				4.5	19.5	48	0		0	1	48	0.44	21.12		21.12	1.92	40.55	40.55	7.3%	4									
ACHY	3.6						7.25				10.85	7.25		9	9	1.241	13.47	0.44	5.926		5.926	1.79	10.61	10.61	1.9%	4								
BRTE	20	30	15	10	17	10	3	3	3	4	115	13	10	7	17	1.308	150.4	0.39	58.65		58.65	1.13	66.27	66.27	12.0%	4								
SIHY		1.5			4.5						6	0		0	1	6	0.43	2.58		2.58	1.79	4.618	4.618	0.8%	4									
HJA		7.5	9		10.5		60	28.5	30	11.3	156.8	28.5		23	23	0.807	126.5	0.38	48.07		48.07	2.46	118.3	118.3	21.4%	4								
SPCR			15								15	0		0	1	15	0.41	6.15		6.15	2.31	14.21	14.21	2.6%	3									
DEPI	T								2		2	0		0	1	2	0.24	0.48		0.48	4.04	1.939	1.939	0.4%	4									
MACA			4								4	0		0	1	4	0.24	0.96		0.96	1	0.96	0.96	0.2%	4									
PHST				T							T													T	4									
SPAM									2		2	0		0	1	2	0.18	0.36		0.36	2.68	0.965	0.965	0.2%	3									
EPNE	T			2							2	0		0	1	2	0.38	0.76		0.76	2.12	1.611	1.611	0.3%	2									
LYAN		140				15					155	15	10	10	0.667	103.3	0.2	20.67		20.67	4.46	92.17	92.17	16.7%	2									
GRSP		58.5	52			15.6					126.1	15.6	29	29	1.859	234.4	0.13	30.47		30.47	2.86	87.16	87.16	15.8%	2									
ARSP					11		2.6				13.6	0		0	1	13.6	0.3	4.08		4.08	1.88	7.67	7.67	1.4%	3									
CACTUS		93	22								115	0		0	1	115	0.21	24.15		24.15	4.38	105.8	105.8	19.1%	3									
Yield (grams)											Date	06/08/1999					Tot.											552.8	100.0%					

**TOTAL ANNUAL YIELD AND COMPOSITION RECORD**

Soil:	Loamy Upland										Range Site:	029XY016NV					Location:	NWHR	S:	NA	T:	NA	R:	NA					
Precipitation:	5-8		Elev.(m)	1710			Aspect:	285			Use History:	Unknown <small>(Light, Medium, Heavy)</small>					Season of Use:	All year			Slope:	2-3							
Animals:	horses, antelope, rabbits <small>(kind)</small>					Last Burn:	NA <small>(Date)</small>					Ecological Status:	NA					Plot Size/Shp:	9.6 ft			Brush Control:	NA <small>(Date)</small>						
Growing season:	Good <small>(good, normal, poor)</small>		SWA Number:	16B							Canopy:	0% <small>(% Tree shade)</small>					SCD:	NA			Recorders:	V.WINKEL;K.BLOMQUIST;J.GELLER							
Denotes clipped plots	X X												A	B	C	D	E	F	G	H	I	J	K	L	M	N			
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																
Plants % density																													
Stone % surface																													
Litter % surface																													
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Green Wt.	Dry Wt. Fact.	All Plots	Util. %	Sub-Total	Pheno Factor	All Plots	Lbs/ Acre	% Comp	Notes <small>(Phen. Factor)</small>				
ACHY	7	T	10.5				T	2		8	27.5	10.5		23.5	2.238	61.55	0.44	27.08		27.08	1.79	48.47	48.47	8.1%	4				
HJA		6.5					6	17	23		52.5	6.5	7		7	1.077	56.54	0.38	21.48		21.48	2.46	52.85	52.85	8.8%	4			
DEPI	T		T								T														T	5			
SPAM	2	1	2	4	1	T	T		T	5	15	3	1	2	3	1	15	0.26	3.9		3.9	1	3.9	3.9	0.6%	5			
MACA	T		T			T	20	7	12	3	42	0		0	1	42	0.24	10.08		10.08	1	10.08	10.08	1.7%	4				
ARABIS		6				2	4				12	6	6		6	1	12	0.43	5.16		5.16	1.57	8.101	8.101	1.3%	5			
CHST							T				T														T	4			
CHVI	T										T														T	2			
GRSP	194	25.8	86			86	185				576.2	111.8	20	90	110	0.984	566.9	0.13	73.7		73.7	2.86	210.8	210.8	35.0%	2			
ARSP	12	7.2	7.2	33.6	T	30	T		2	24	116	14.4	6	7	13	0.903	104.7	0.3	31.42		31.42	1.88	59.06	59.06	9.8%	3			
KRLA	19.5	39	19.5	46.8		26	20.8		28.6	6.5	206.7	58.5	24	32	56	0.957	197.9	0.39	77.17		77.17	2.7	208.4	208.4	34.6%	2			
Yield (grams)											Date	06/06/1999					Tot.											601.6	100.0%

## TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:	Loamy Upland									Range Site:	029XY016NV					Location:	NWHR	S:	NA	T:	NA	R:	NA																	
Precipitation:	5-8		Elev.(m)	1646			Aspect:	275			Use History:	Unknown <small>(Light, Medium, Heavy)</small>					Season of Use:	All year			Slope:	2-3																		
Animals:	horses, antelope, rabbits <small>(kind)</small>				Last Burn:	NA <small>(Date)</small>		Ecological Status:	NA			Plot Size/Shp:	9.6 ft		Brush Control:	NA <small>(Date)</small>																								
Growing season:	Good <small>(good, normal, poor)</small>		SWA Number:	16C						Canopy:	0% <small>(% Tree shade)</small>			SCD:	NA		Recorders:	V. WINKEL; K. BLOMQUIST; J. GELLER																						
Denotes clipped plots			X	X						A	B	C	D	E	F	G	H	I	J	K	L	M	N																	
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																											
Plants % density											Tot.		Tot.		Dry Wt.		Dry Wt.		Tot.																					
Stone % surface											Tot.		Green		Corr.		Green		Dry		Util.		Sub-		Pheno		Tot.		Lbs/		% Comp		Notes							
Litter % surface											All		Circ.		plot #		Green		Corr.		Wt.		Plots		% Total		Factor		Plots		Acre		(Phen. Factor)							
Species/Pheno.	Weight in grams										All		Circ.		4		5		Wt.		Fact.		Wt.		Fact.		Plots		% Total		Factor		Plots		Acre		% Comp		Notes	
HJJA		40		30	35			7.5		55	167.5	65	71	60	131	2.015	337.6	0.38	128.3		128.3	2.46	315.6	315.6	61.2%	4														
SIHY				8.75	2					T	10.75	10.75	9	3	12	1.116	12	0.49	5.88		5.88	1	5.88	5.88	1.1%	5														
BRTE										T	T														T	5														
STCO										T	T														T	3														
SPAM				36						10	46	36	35		35	0.972	44.72	0.2	8.944		8.944	1.18	10.55	10.55	2.0%	4														
ASPU		5								T	5	0			0	1	5	0.26	1.3		1.3	1	1.3	1.3	0.3%	5														
CRYPTANTHA		T		T				T		T	T														T	5														
LEPIDIUM		T						T		T	T														T	4														
CHST					7		T	T			7	7		7	7	1	7	0.32	2.24		2.24	1.3	2.912	2.912	0.6%	4														
HACKELIA					T					T	T														T	4														
ERNI								T		T	T														T	4														
SEMU										2.5	2.5	0			0	1	2.5	0.24	0.6		0.6	1	0.6	0.6	0.1%	4														
MENTZELIA		T								T	T														T															
HAGL			T	T		T	T	T	T		T														T															
PLANTAGO				T																																				
ATCO		27			32		80	T			139	32		28	28	0.875	121.6	0.18	21.89		21.89	7.14	156.3	156.3	30.3%	3														
ARSP				4.2	28		T	18			50.2	32.2	6	27	33	1.025	51.45	0.44	22.64		22.64	1	22.64	22.64	4.4%	5														
EPNE										T	T														T	2														
Yield (grams)											Date	06/04/1999					Tot.											515.8	100.0%											

**TOTAL ANNUAL YIELD AND COMPOSITION RECORD**

<b>Soil:</b>	SILTY										<b>Range Site:</b>	029XY020NV				<b>Location:</b>	NWHR		<b>S:</b>	NA		<b>T:</b>	NA		<b>R:</b>	NA																
<b>Precipitation:</b>	5-8		<b>Elev.(m)</b>	1551			<b>Aspect:</b>	270			<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>				<b>Season of Use:</b>	All year				<b>Slope:</b>	1-2																				
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>					<b>Last Burn:</b>	NA <small>(Date)</small>					<b>Ecological Status:</b>	NA				<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>																					
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	20B							<b>Canopy:</b>	0% <small>(% Tree shade)</small>				<b>SCD:</b>	NA		<b>Recorders:</b>	V.WINKEL; S.PETERSEN; J.GELLER																						
Denotes clipped plots						X						X																														
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																													
Plants % density											Tot.		Green		Corr.		Green		Dry		Tot.		Tot.																			
Stone % surface											Tot.		Green		Corr.		Green		Wt.		All		Util.		Sub-		Pheno		All		Lbs/		% Comp		Notes							
Litter % surface											Tot.		Tot.		plot #		Green		Corr.		Green		Wt.		All		Util.		Sub-		Pheno		All		Lbs/		% Comp		Notes			
Species/Pheno.	Weight in grams										All		Circ.		6		10		Wt.		Fact.		Wt.		Fact.		Plots		% Total		Pheno		Factor		Plots		Acre		% Comp		Notes	
ERPU	1.5					4.9	5.25			4.5	16.15	9.4	6.8	6.5	13.3	1.415	22.85	0.44	10.05	10.05	1.92	19.3	19.3	4.9%	4																	
ACHY	T					3					3	3	3		3	1	3	0.44	1.32	1.32	1.79	2.363	2.363	0.6%	4																	
ASLE	2				2		4			41.5	49.5	41.5		41.5	41.5	1	49.5	0.2	9.9	9.9	1.18	11.68	11.68	3.0%	4																	
ARSP	T	5.25	31.5	31.5	5.6	4.2	8.75	2.45	14	10.5	113.8	14.7	4	7	11	0.748	85.12	0.29	24.68	24.68	1.58	39	39	9.9%	4																	
KRLA		38.8	62	6.2	58.1	93				15.5	273.6	108.5	96	9	105	0.968	264.7	0.39	103.3	103.3	2.7	278.8	278.8	71.1%	2																	
ATCO									32		32	0			0	1	32	0.18	5.76	5.76	7.14	41.13	41.13	10.5%	3																	
Yield (grams)											Date	06/08/1999				Tot.											392.3	100.0%														



## TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:		SODIC HILL								Range Site:		029XY022NV		Location:		NWHR		S: NA		T: NA		R: NA																											
Precipitation:		5-8		Elev.(m)		1782		Aspect:		113		Use History:		Unknown		Season of Use:		All year		Slope:		4-5																											
Animals:		horses, antelope, rabbits								Last Burn:		NA		Ecological Status:		NA		Plot Size/Shp:		9.6 ft		Brush Control:		NA																									
Growing season:		Good		SWA Number:		22A		Canopy:		0%		SCD:		NA		Recorders:		M. HESSING; S. KOZUSKO; K. BLOMQUIST																															
		(good, normal, poor)								(% Tree shade)																																							
Denotes clipped plots				X				X				A		B		C		D		E		F		G		H		I		J		K		L		M		N											
Plot number		1		2		3		4		5		6		7		8		9		10		Estimated		Clipped weights																									
Plants % density																																																	
Stone % surface																																																	
Litter % surface																																																	
Species/Pheno.																																																	
HIJA		14		4		43		56		10		35		2		25		17		206		68		30		35		65		0.956		196.9		0.38		74.83		74.83		2.46		184.1		184.1		34.4%		4	
BRTE				8		3		5		9		T								25		3		1		1		0.333		8.333		0.49		4.083		4.083		1		4.083		4.083		0.8%		5			
ACHY				2				1						22						25		22		32		32		1.455		36.36		0.44		16		16		1.79		28.64		28.64		5.3%		4			
SIHY				3																3		3		3		3		1		3		0.43		1.29		1.29		1.79		2.309		2.309		0.4%		4			
ASLE		133		15		282		1												431		15		15		15		1		431		0.26		112.1		112.1		1		112.1		112.1		20.9%		5			
SPAM				28		T		3		T										31		0				0		1		31		0.2		6.2		6.2		1.18		7.316		7.316		1.4%		4			
CRVI				T		24														24		24		24		24		1		24		0.21		5.04		5.04		1		5.04		5.04		0.9%		4			
MACA								T				T								T																		T				3							
CHST								T				T								T																T				4									
ARABIS												2		2						2		2		2		2		1		2		0.24		0.48		0.48		4.04		1.939		1.939		0.4%		4			
SAVEB		24																		24		0				0		1		24		0.2		4.8		4.8		4.46		21.41		21.41		4.0%		2			
ARSP				2.5		1						39								42.5		40		1		42		43		1.075		45.69		0.29		13.25		13.25		1.58		20.93		20.93		3.9%		4	
ATCO				48								17		17						82		65		62		17		79		1.215		99.66		0.18		17.94		17.94		7.14		128.1		128.1		23.9%		3	
KOAMV				2		8		1		13										24		15		13		13		0.867		20.8		0.36		7.488		7.488		2.44		18.27		18.27		3.4%		3			
CHVI								T		1		1		0						1		0				0		1		1		0.32		0.32		0.32		3.9		1.248		1.248		0.2%		2			
Yield (grams)												Date		06/07/1999						Tot.																		535.4		100.0%									

### TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	COARSE SILTY										<b>Range Site:</b>	029XY042NV					<b>Location:</b>	NWHR		<b>S:</b>	NA		<b>T:</b>	NA		<b>R:</b>	NA	
<b>Precipitation:</b>	5-8		<b>Elev.(m)</b>	1657			<b>Aspect:</b>	265			<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>					<b>Season of Use:</b>	All year			<b>Slope:</b>	0-1						
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>					<b>Last Burn:</b>	NA <small>(Date)</small>					<b>Ecological Status:</b>	NA					<b>Plot Size/Shp:</b>	9.6 ft			<b>Brush Control:</b>	NA <small>(Date)</small>					
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	42C							<b>Canopy:</b>	0% <small>(% Tree shade)</small>					<b>SCD:</b>	NA		<b>Recorders:</b>	M.MAIN; J.NORMAN; S.KOZUSKO							
Denotes clipped plots						X				X	A	B	C	D	E	F	G	H	I	J	K	L	M	N				
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights															
Plants % density																												
Stone % surface																												
Litter % surface																												
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Tot. Green Wt.	Dry Wt. Fact.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. All Plots	Lbs/ Acre	% Comp	Notes <small>(Phen. Factor)</small>			
ACHY								2	T	7	9	7		7	7	1	9	0.41	3.69	1.11	4.096	2.31	9.462	9.462	1.2%	3		
MACA			7			11					18	11	11		11	1	18	0.22	3.96		3.96	1.62	6.415	6.415	0.8%	3		
SAIB						T			T		T														T	1		
KRLA	78	91	130	91	58.5	78	45.5	78	117	52	819	130	65	39	104	0.8	655.2	0.39	255.5	1.11	283.6	2.7	765.8	765.8	97.3%	2		
CACTUS						4					4	4	4		4	1	4	0.2	0.8		0.8	6.5	5.2	5.2	0.66%	1		
Yield (grams)																										786.9	100.0%	
											Date	06/06/1999					Tot.											

TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:	COARSE SILTY										Range Site:	029XY042NV					Location:	NWHR	S:	NA	T:	NA	R:	NA						
Precipitation:	5-8	Elev.(m)	1612	Aspect:	112	Use History:	Unknown <small>(Light, Medium, Heavy)</small>					Season of Use:	All year					Slope:	0-1											
Animals:	horses, antelope, rabbits <small>(kind)</small>										Last Burn:	NA <small>(Date)</small>	Ecological Status:	NA	Plot Size/Shp:	9.6 ft	Brush Control:	NA <small>(Date)</small>												
Growing season:	Good <small>(good, normal, poor)</small>										SWA Number:	42D					Canopy:	0% <small>(% Tree shade)</small>	SCD:	NA	Recorders:	M. MAIN; J. NORMAN; S. KOZUSKO								
Denotes clipped plots	X				X							A	B	C	D	E	F	G	H	I	J	K	L	M	N					
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																	
Plants % density																														
Stone % surface																														
Litter % surface																														
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Green Wt.	Dry Wt.	All Plots	Util. %	Sub-Total	Pheno Factor	All Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)					
ACHY	1				2						3	3	1	2	3	1	3	0.41	1.23	1.43	1.759	2.31	4.063	4.063	0.6%	3				
BRTE			T								T														T	4				
SPAM	3	1	1	2	1	3		2	1	4	18	4	3	1.5	4.5	1.125	20.25	0.18	3.645		3.645	2.68	9.769	9.769	1.4%	3				
SAIB	1	T	T	T				1	T	T	2	1	1		1	1	2	0.14	0.28		0.28	88.33	24.73	24.73	3.5%	1				
ERMA	T										T														T	1				
CRYPTANTHA	1				T						1	1	1		1	1	1	0.23	0.23		0.23	2.31	0.531	0.531	0.1%	2				
KRLA	38	85	65	60	90	60	65	80	35	50	628	128	60	96	156	1.219	765.4	0.36	275.5		275.5	2.44	672.3	672.3	94.5%	3				
Yield (grams)											Date	06/06/1999					Tot.												711.4	100.0%



### TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	SANDY LOAM									<b>Range Site:</b>	029XY046NV					<b>Location:</b>	NWHR		<b>S:</b>	NA		<b>T:</b>	NA		<b>R:</b>	NA				
<b>Precipitation:</b>	5-8		<b>Elev.(m)</b>	1777			<b>Aspect:</b>	151			<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>					<b>Season of Use:</b>	All year				<b>Slope:</b>	5							
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>						<b>Last Burn:</b>	NA <small>(Date)</small>			<b>Ecological Status:</b>	NA					<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>									
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	46A						<b>Canopy:</b>	0% <small>(% Tree shade)</small>					<b>SCD:</b>	NA		<b>Recorders:</b>	S.KOZUSKO; K.BLOMQUIST; M.HESSING										
Denotes clipped plots	X									X																				
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																	
Plants % density																														
Stone % surface																														
Litter % surface																														
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #		Tot. Green Wt.	Corr. Fact.	Tot. Green Wt.	Dry Wt. Fact.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. All Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)				
ACHY	11	17	T	13		15		16			72	27	16	42	58	2.148	154.7	0.44	68.05		68.05	1.79	121.8	121.8	7.3%	4				
HIJA	25	10	40	7	36	17	33	26	5	22	221	47	18	32	50	1.064	235.1	0.38	89.34		89.34	2.46	219.8	219.8	13.1%	4				
SPCR	4.5										4.5	4.5	5		5	1.111	5	0.39	1.95		1.95	3.27	6.377	6.377	0.4%	2				
BRTE	5	3	6	22	7	10	8	19	15	8	103	13	23	62	85	6.538	673.5	0.49	330		330	1	330	330	19.6%	5				
SIHY		1									1	0			0	1	1	0.49	0.49		0.49	1	0.49	0.49	0.0%	5				
STCO										29	29	29		29	29	1	29	0.51	14.79		14.79	1	14.79	14.79	0.9%	5				
SPAM	3						T		5		8	3	3		3	1	8	0.2	1.6		1.6	1.18	1.888	1.888	0.1%	4				
MACA	12										12	12	12		12	1	12	0.24	2.88		2.88	1	2.88	2.88	0.2%	4				
SAIB		T									T													T		1				
CHVI		64									64	0			0	1	64	0.32	20.48		20.48	3.9	79.87	79.87	4.8%	2				
KRLA			8							11.5	19.5	11.5		14	14	1.217	23.74	0.39	9.258		9.258	2.7	25	25	1.5%	2				
ATCA				162						520	682	0			0	1	682	0.18	122.8		122.8	7.14	876.5	876.5	52.2%	3				
Yield (grams)											Date	06/07/1999					Tot.											1679	100.0%	

TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:	SANDY LOAM									Range Site:	029XY046NV				Location:	NWHR	S:	NA	T:	NA	R:	NA				
Precipitation:	5-8	Elev.(m)	1701	Aspect:	117	Use History:	Unknown <small>(Light, Medium, Heavy)</small>				Season of Use:	All year				Slope:	1									
Animals:	horses, antelope, rabbits <small>(kind)</small>				Last Burn:	NA <small>(Date)</small>	Ecological Status:	NA				Plot Size/Shp:	9.6 ft		Brush Control:	NA <small>(Date)</small>										
Growing season:	Good <small>(good, normal, poor)</small>				SWA Number:	46B				Canopy:	0% <small>(% Tree shade)</small>				SCD:	NA	Recorders:	M.MAIN;J.NORMAN;S.KOZUSKO								
Denotes clipped plots				X			X			A	B	C	D	E	F	G	H	I	J	K	L	M	N			
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights													
Plants % density																										
Stone % surface																										
Litter % surface																										
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Green Wt.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. All Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)		
ACHY		55		1	58	T	14	12			140	70	60	13	73	1.043	146	0.44	64.24		64.24	1.79	115	115	17.3%	4
HJA	23										23	0			0	1	23	0.38	8.74		8.74	2.46	21.5	21.5	3.2%	4
ASLE	60		10		12						82	12	18		18	1.5	123	0.26	31.98		31.98	1	31.98	31.98	4.8%	5
SPAM	1	T					1		T		2	0			0	1	2	0.2	0.4		0.4	1.18	0.472	0.472	0.1%	4
ERMA		T							T		T													T	1	
ARABIS					10						10	10	9		9	0.9	9	0.43	3.87		3.87	1.57	6.076	6.076	0.9%	5
ATCA					180		20				200	180	198		198	1.1	220	0.22	48.4		48.4	2.63	127.3	127.3	19.2%	4
KRLA			90	70	25		45	30	25	45	330	55	18	34	52	0.945	312	0.36	112.3		112.3	2.44	274.1	274.1	41.3%	3
ARSP					64			80			144	144	66	70	136	0.944	136	0.44	59.84		59.84	1	59.84	59.84	9.0%	5
GRSP								160			160	160		180	180	1.125	180	0.14	25.2		25.2	1.11	27.97	27.97	4.2%	3
Yield (grams)																										
Date	06/06/1999										Tot.										664.2	100.0%				

### TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	SANDY LOAM					<b>Range Site:</b>	029XYD46NV					<b>Location:</b>	NWHR	<b>S:</b>	NA	<b>T:</b>	NA	<b>R:</b>	NA										
<b>Precipitation:</b>	5-8	<b>Elev.(m)</b>	1599	<b>Aspect:</b>	106	<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>					<b>Season of Use:</b>	All year		<b>Slope:</b>	0-1													
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>					<b>Last Burn:</b>	NA <small>(Date)</small>					<b>Ecological Status:</b>	NA					<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>							
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	46D			<b>Canopy:</b>	0% <small>(% Tree shade)</small>					<b>SCD:</b>	NA		<b>Recorders:</b>	V.WINKEL;K.BLOMQUIST;J.GELLER												
Denotes clipped plots	X				X																								
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																
Plants % density																													
Stone % surface																													
Litter % surface																													
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Green Wt.	Dry Wt. Fact.	All Plots	Util. %	Sub-Total	Pheno Factor	All Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)				
ACHY	1										1	1			0	1	1	0.39	0.39		0.39	3.27	1.275	1.275	0.1%	2			
HAGL	T		T	T			T		T	T	T															T	1		
SPAM	T	T		63	270	54	T	T		T	387	54		100	100	1.852	716.7	0.2	143.3		143.3	1.18	169.1	169.1	9.6%	4			
SAIB	21	T	7			T	17.5	T	T	21	66.5	21	12	11	23	1.095	72.83	0.14	10.2		10.2	88.33	900.7	900.7	51.3%	1			
ATCA	108		T		3	108	40.5	189		6.75	455.3	216	89	103	192	0.889	404.7	0.18	72.84		72.84	7.14	520.1	520.1	29.6%	3			
KRLA	38			4.75		47.5	9.5			95	194.8	85.5	36	46	82	0.959	186.8	0.36	67.24		67.24	2.44	164.1	164.1	9.3%	3			
Yield (grams)																													
											Date	06/04/1999					Tot.											1755	100.0%





### TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	SANDY LOAM										<b>Range Site:</b>	029XYD46NV				<b>Location:</b>	NWHR	<b>S:</b>	NA	<b>T:</b>	NA	<b>R:</b>	NA				
<b>Precipitation:</b>	5-8		<b>Elev.(m)</b>	1669			<b>Aspect:</b>	281			<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>				<b>Season of Use:</b>	All year			<b>Slope:</b>	0-1						
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>					<b>Last Burn:</b>	NA <small>(Date)</small>					<b>Ecological Status:</b>	NA				<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>						
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	46F							<b>Canopy:</b>	0% <small>(% Tree shade)</small>				<b>SCD:</b>	NA		<b>Recorders:</b>	K.BLOMQUIST; V.WINKEL; J.GELLER							
<b>Denotes clipped plots</b>	X		X								A	B	C	D	E	F	G	H	I	J	K	L	M	N			
<b>Plot number</b>	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights														
<b>Plants % density</b>																											
<b>Stone % surface</b>																											
<b>Litter % surface</b>																											
<b>Species/Pheno.</b>											Tot. All	Tot. Circ.	plot # 1	4	Tot. Green Wt.	Corr. Fact.	Tot. Green Wt.	Dry Wt. Fact.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. All Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)	
ACHY	30	T	T	T	T						30	30	30		30	1	30	0.44	13.2		13.2	1.79	23.63	23.63	9.1%	4	
HJA			5	26							31	26		33	33	1.269	39.35	0.38	14.95		14.95	2.46	36.78	36.78	14.1%	4	
MACA		T					1.5			T	1.5	0			0	1	1.5	0.24	0.36		0.36	1	0.36	0.36	0.1%	4	
CYGL								T	T		T														T	1	
CHVI	1	82.8	5.75	3	2	2	2	1	51.8	T	151.3	4	1	2	3	0.75	113.5	0.32	36.31		36.31	3.9	141.6	141.6	54.3%	2	
KRLA	43.8	T				10					53.75	43.75	36		36	0.823	44.23	0.39	17.25		17.25	2.7	46.57	46.57	17.9%	2	
TEGL		8									8	0			0	1	8	0.24	1.92		1.92	6.17	11.85	11.85	4.5%	1	
<b>Yield (grams)</b>																											
											Date	06/06/1999				Tot.									260.8	100.0%	

TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	SANDY LOAM										<b>Range Site:</b>	029XY049NV					<b>Location:</b>	NWHR	<b>S:</b>	NA	<b>T:</b>	NA	<b>R:</b>	NA						
<b>Precipitation:</b>	8-12		<b>Elev.(m)</b>	1823			<b>Aspect:</b>	191			<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>					<b>Season of Use:</b>	All year			<b>Slope:</b>	2-3								
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>					<b>Last Burn:</b>	NA <small>(Date)</small>					<b>Ecological Status:</b>	NA					<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>								
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	49A							<b>Canopy:</b>	0% <small>(% Tree shade)</small>					<b>SCD:</b>	NA		<b>Recorders:</b>	S.PETERSEN; V.WINKEL; J.GELLER									
Denotes clipped plots		X	X								A	B	C	D	E	F	G	H	I	J	K	L	M	N						
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																	
Plants % density																														
Stone % surface																														
Litter % surface																														
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot # 2	3	Tot. Green Wt.	Corr. Fact.	Tot. Green Wt.	Dry Wt. Fact.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)				
SIHY		3	1				4		1	0.5	9.5	4	3	1	4	1	9.5	0.43	4.085		4.085	1.79	7.312	7.312	1.2%	4				
ACHY	T	1	1.5	2.5	4	1.75		1	3	1.5	16.25	2.5	1	1.75	2.75	1.1	17.88	0.41	7.329	1.11	8.135	2.31	18.79	18.79	3.0%	3				
MACA			T								T														T	1				
ERIGERON				T							T														T	1				
CHVI	9	9	10.5	1.25	5.25	10.5		11.3	7.5	9	73.25	19.5	10.5	12	22.5	1.154	84.52	0.32	27.05		27.05	3.9	105.5	105.5	16.8%	2				
ARTRW	192	72	96	8	96		88				552	168	52	136	188	1.119	617.7	0.49	302.7		302.7	1.51	457	457	72.8%	4				
GRSP	8	14			22						44	14	24.5		24.5	1.75	77	0.13	10.01		10.01	2.86	28.63	28.63	4.6%	2				
ATCA		6									6	6	6.5		6.5	1.083	6.5	0.16	1.04		1.04	10	10.4	10.4	1.7%	2				
Yield (grams)											Date	06/07/1999					Tot.												627.7	100.0%

### TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	GRAVELLY LOAM										<b>Range Site:</b>	029XY087NV					<b>Location:</b>	NWHR	<b>S:</b>	NA	<b>T:</b>	NA	<b>R:</b>	NA										
<b>Precipitation:</b>	5-8		<b>Elev.(m)</b>	1585			<b>Aspect:</b>	273			<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>					<b>Season of Use:</b>	All year			<b>Slope:</b>	2												
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>					<b>Last Burn:</b>	NA <small>(Date)</small>					<b>Ecological Status:</b>	NA					<b>Plot Size/Shp:</b>	9.6 ft			<b>Brush Control:</b>	NA <small>(Date)</small>											
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	87A							<b>Canopy:</b>	0% <small>(% Tree shade)</small>					<b>SCD:</b>	NA			<b>Recorders:</b>	M.HESSING; S.KOZUSKO; K.BLOMQUIST												
Denotes clipped plots	X							X												<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																					
Plants % density																																		
Stone % surface																																		
Litter % surface																																		
Species/Pheno.	Weight in grams										<b>Tot. All</b>	<b>Tot. Circ.</b>	<b>plot #</b>	<b>Green Wt.</b>	<b>Corr. Fact.</b>	<b>Green Wt.</b>	<b>Dry Wt. Fact.</b>	<b>Dry Wt. All Plots</b>	<b>Util. %</b>	<b>Sub-Total</b>	<b>Pheno Factor</b>	<b>Tot. Wt. All Plots</b>	<b>Lbs/ Acre</b>	<b>% Comp</b>	<b>Notes (Phen. Factor)</b>									
HJA		28	5					15	24		72	28	23		23	0.821	59.14	0.45	26.61		26.61	1.32	35.13	35.13	10.9%	5								
ACHY		T		3	7	4	3	T			17	3		3	3	1	17	0.48	8.16		8.16	1	8.16	8.16	2.5%	5								
ASLE									T		T															T	1							
CHST	9	9	15	15	0.3	3.75	3.75	6	7.5		69.3	12.75	10	5	15	1.176	81.53	0.32	26.09		26.09	1.3	33.92	33.92	10.5%	4								
UNK FORB1	7										7	0			0	1	7	0.22	1.54		1.54	1.8	2.772	2.772	0.9%	3								
SAIB	T										T															T	1							
MACA		T	10	6							16	0		0	1	16	0.22	3.52		3.52	1.62	5.702	5.702	1.8%	3									
EUAL			4.5	2.2	11	9.5	1.5				28.7	1.5		3	3	2	57.4	0.14	8.036		8.036	1	8.036	8.036	2.5%	4								
UNK FORB2						T		T			T															T	1							
SAVEB		153						15.3		128	295.8	168.3	126	18	144	0.856	253.1	0.2	50.62		50.62	4.46	225.8	225.8	70.1%	2								
ATCO			2								2	0		0	1	2	0.18	0.36		0.36	7.14	2.57	2.57		0.8%	3								
CHVI		T									T															T	2							
Yield (grams)																																		
											Date	06/08/1999					Tot.												322	100.0%				



TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:	COARSE GRAVELLY LOAM										Range Site:	029XY090NV					Location:	NWHR	S:	NA	T:	NA	R:	NA					
Precipitation:	6-10	Elev.(m)	1824	Aspect:	220	Use History:	Unknown <small>(Light, Medium, Heavy)</small>					Season of Use:	All year			Slope:	1-2												
Animals:	horses, antelope, rabbits <small>(kind)</small>			Last Burn:	NA <small>(Date)</small>	Ecological Status:	NA					Plot Size/Shp:	9.6 ft		Brush Control:	NA <small>(Date)</small>													
Growing season:	Good <small>(good, normal, poor)</small>			SWA Number:	90A					Canopy:	0% <small>(% Tree shade)</small>					SCD:	NA	Recorders:	M.MAIN; J.NORMAN; V.WINKEL; KWB										
Denotes clipped plots			X				X				A	B	C	D	E	F	G	H	I	J	K	L	M	N					
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights																
Plants % density																													
Stone % surface																													
Litter % surface																													
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Green Wt.	Dry Wt. Fact.	All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)				
SIHY	3	1	1	1		2	2		2		12	3	1	1.5	2.5	0.833	10	0.43	4.3		4.3	1.79	7.697	7.697	1.8%	4			
HIJA	2	10	1	6	20	1	3		22	1	66	9	8	3	11	1.222	80.67	0.32	25.81		25.81	2.68	69.18	69.18	16.5%	3			
BRTE						T				26	26	0			0		1	26	0.49	12.74		12.74	1	12.74	12.74	3.0%	5		
MACA				T			T				T														T	3			
ARABIS						T					T														T	1			
HAGL										T	T														T	1			
ARSP		T		10			9	8			27	19	10	14	24	1.263	34.11	0.44	15.01		15.01	1	15.01	15.01	3.6%	5			
CHVI	30	30	35	16		20	23	T	35	45	234	39	18	24	42	1.077	252	0.32	80.64		80.64	3.9	314.5	314.5	75.0%	2			
Yield (grams)											Date	06/03/1999					Tot.											419.1	100.0%

### TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:	COARSE GRAVELLY LOAM										Range Site:	029XY090NV					Location:	NWHR		S:	NA		T:	NA		R:	NA			
Precipitation:	6-10		Elev.(m)	1815			Aspect:	131			Use History:	Unknown <small>(Light, Medium, Heavy)</small>					Season of Use:	All year				Slope:	3							
Animals:	horses, antelope, rabbits <small>(kind)</small>					Last Burn:	NA <small>(Date)</small>					Ecological Status:	NA					Plot Size/Shp:	9.6 ft		Brush Control:	NA <small>(Date)</small>								
Growing season:	Good <small>(good, normal, poor)</small>		SWA Number:	90B							Canopy:	0% <small>(% Tree shade)</small>			SCD:	NA		Recorders:	M.HESSING; S.KOZUSKO; K.BLOMQUIST											
Denotes clipped plots											X	X																		
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated	Clipped weights																		
Plants % density											Tot.	Tot.	plot #		Green	Corr.	Green	Dry	Dry	Tot.										
Stone % surface											All	Circ.	7	9	Wt.	Fact.	Wt.	Fact.	Wt.	All	Util.	Sub-	Pheno	All	Lbs/	%	Notes			
Litter % surface											Wt.	Wt.	Wt.	Wt.	Wt.	Wt.	Wt.	Wt.	Plots	%	Total	Factor	Plots	Acre	Comp	(Phen. Factor)				
Species/Pheno.	Weight in grams																													
ACHY	45						23				68	23	24		24	1.043	70.96	0.41	29.09		29.09	2.31	67.2	67.2	10.5%	3				
SIHY	33		77		30						140	0			0	1	140	0.49	68.6		68.6	1	68.6	68.6	10.8%	5				
BRTE	3	5	1	6	6	4	6	10	1	6	48	7	7	3	10	1.429	68.57	0.49	33.6		33.6	1	33.6	33.6	5.3%	5				
HJJA				35	14	3	2			31	85	2	2		2	1	85	0.32	27.2		27.2	2.68	72.9	72.9	11.4%	3				
ERPU					27	9	9	1	3		49	12	7	1.5	8.5	0.708	34.71	0.44	15.27		15.27	1.92	29.32	29.32	4.6%	4				
SPCR							3		4		7	7	2	5	7	1	7	0.41	2.87		2.87	2.31	6.63	6.63	1.0%	3				
ASLE					T	T			5		5	5		5	5	1	5	0.2	1		1	1.18	1.18	1.18	0.2%	4				
SPAM		38		T	4	6	100	230			378	100	111		111	1.11	419.6	0.2	83.92		83.92	1.18	99.02	99.02	15.5%	4				
MACA					4				5		9	5		5	5	1	9	0.22	1.98		1.98	1.62	3.208	3.208	0.5%	3				
ATCO		35	400	66	50		50	100	150		851	200	30	55	85	0.425	361.7	0.22	79.57		79.57	2.63	209.3	209.3	32.8%	4				
ARSP		15	T	38		4	19	6	33	10	125	52	22	20	42	0.808	101	0.29	29.28		29.28	1.58	46.26	46.26	7.3%	4				
EPNE							T				T													T		1				
Yield (grams)											Date	06/07/1999					Tot.	637.2						100.0%						

TOTAL ANNUAL YIELD AND COMPOSITION RECORD

Soil:	COARSE GRAVELLY LOAM										Range Site:	029XY090NV					Location:	NWHR		S:	NA		T:	NA		R:	NA					
Precipitation:	6-10		Elev.(m)	1713			Aspect:	271			Use History:	Unknown <small>(Light, Medium, Heavy)</small>					Season of Use:	All year			Slope:	3										
Animals:	horses, antelope, rabbits <small>(kind)</small>					Last Burn:	NA <small>(Date)</small>					Ecological Status:	NA					Plot Size/Shp:	9.6 ft		Brush Control:	NA <small>(Date)</small>										
Growing season:	Good <small>(good, normal, poor)</small>		SWA Number:	90C							Canopy:	0% <small>(% Tree shade)</small>			SCD:	NA		Recorders:	V.WINKEL;S.PETERSEN;J.GELLER													
Denotes clipped plots	X					X					A	B	C	D	E	F	G	H	I	J	K	L	M	N								
Plot number	1		2		3		4		5		6		7		8		9		10		Estimated	Clipped weights										
Plants % density																																
Stone % surface																																
Litter % surface																																
Species/Pheno.	Weight in grams										Tot. All	Tot. Circ.	plot #	Green Wt.	Corr. Fact.	Green Wt.	Corr. Fact.	Dry Wt.	Dry Wt. All Plots	Util. %	Sub-Total	Pheno Factor	Tot. Wt. All Plots	Lbs/ Acre	% Comp	Notes (Phen. Factor)						
HJJA	29.8	7	21	28	26.3	42	10.5	21	24.5	52.5	262.5	17.5	12	10.5	22.5	1.286	337.5	0.38	128.3		128.3	2.46	315.5	315.5	31.3%	4						
ACHY		34	8.5		25.5		21.3				89.25	55.25	42	29	71	1.285	114.7	0.44	50.46		50.46	1.79	90.33	90.33	9.0%	4						
SIHY		3									3	3	3		3	1	3	0.43	1.29		1.29	1.79	2.309	2.309	0.2%	4						
BRTE	1	T		4	T	3		11	14	2	35	0			0	1	35	0.39	13.65		13.65	1.13	15.42	15.42	1.5%	4						
MACA	26	24	3	7	8	17	2	5	5	6	103	26	24	2	26	1	103	0.22	22.66		22.66	1.62	36.71	36.71	3.6%	3						
ARABIS		3									3	3	3		3	1	3	0.43	1.29		1.29	1.57	2.025	2.025	0.2%	5						
CRYPTANTHA				T							T														T	4						
ATCO		116						160			275.5	116	169		169	1.457	401.4	0.18	72.25		72.25	7.14	515.8	515.8	51.1%	3						
ARSP		18.8	11.3		12.5		25				67.5	43.75	22	22	44	1.006	67.89	0.29	19.69		19.69	1.58	31.11	31.11	3.1%	4						
Yield (grams)											Date	06/08/1999					Tot.												1009	100.0%		

### TOTAL ANNUAL YIELD AND COMPOSITION RECORD

<b>Soil:</b>	COARSE GRAVELLY LOAM										<b>Range Site:</b>	029XY090NV				<b>Location:</b>	NWHR		<b>S:</b>	NA		<b>T:</b>	NA		<b>R:</b>	NA	
<b>Precipitation:</b>	6-10		<b>Elev.(m)</b>	1687			<b>Aspect:</b>	120			<b>Use History:</b>	Unknown <small>(Light, Medium, Heavy)</small>				<b>Season of Use:</b>	All year			<b>Slope:</b>	3						
<b>Animals:</b>	horses, antelope, rabbits <small>(kind)</small>						<b>Last Burn:</b>	NA <small>(Date)</small>			<b>Ecological Status:</b>	NA				<b>Plot Size/Shp:</b>	9.6 ft		<b>Brush Control:</b>	NA <small>(Date)</small>							
<b>Growing season:</b>	Good <small>(good, normal, poor)</small>		<b>SWA Number:</b>	90D			<b>Canopy:</b>	0% <small>(% Tree shade)</small>				<b>SCD:</b>	NA		<b>Recorders:</b>	M. MAIN; J. NORMAN; S. KOZUSKO											
Denotes clipped plots								X	X		A	B	C	D	E	F	G	H	I	J	K	L	M	N			
Plot number	1	2	3	4	5	6	7	8	9	10	Estimated		Clipped weights														
Plants % density																	Tot.		Dry				Tot.				
Stone % surface															Tot.		Corr.	Dry	Wt.								
Litter % surface											Tot.	Tot.	plot #	Green	Corr.	Green	Wt.	All	Util.	Sub-	Pheno	All	Lbs/	%	Notes		
Species/Pheno.	Weight in grams										All	Circ.	8	9	Wt.	Fact.	Wt.	Fact.	Plots	%	Total	Factor	Plots	Acre	Comp	(Phen. Factor)	
HIJA	3	4		30	55	75	30	8	56	22	283	64	8	45	53	0.828	234.4	0.38	89.06		89.06	2.46	219.1	219.1	13.6%	4	
ACHY					3			T			3	0			0	1	3	0.44	1.32		1.32	1.79	2.363	2.363	0.1%	4	
SPAM	17	T	50	T			17	2	1		87	3	2	1	3	1	87	0.2	17.4		17.4	1.18	20.53	20.53	1.3%	4	
SAIB	T										T														T	1	
ASLE		15					6	7		4	32	7	7		7	1	32	0.18	5.76		5.76	2.68	15.44	15.44	1.0%	3	
HAGL		5	T	T							5	0			0	1	5	0.14	0.7		0.7	88.33	61.83	61.83	3.8%	1	
ERMA			T	T							T														T	1	
ATCO	200	45	275					270	22	38	850	292	244	15	259	0.887	753.9	0.18	135.7		135.7	7.14	969	969	59.9%	3	
KRLA	20			75			50	120	15		280	135	106	10	116	0.859	240.6	0.36	86.61		86.61	2.44	211.3	211.3	13.1%	3	
ARSP						T		1	48		49	49	1	24	25	0.51	25	0.44	11		11	1	11	11	0.7%	5	
CHVI								T	T	85	85	0			0	1	85	0.32	27.2		27.2	3.9	106.1	106.1	6.6%	2	
Yield (grams)											Date	06/06/1999				Tot.								1617	100.0%		

**Range Condition Survey  
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**APPENDIX D**

***RANGE INVENTORY WORKSHEETS***

These worksheets were used to determine the condition of the vegetation at the sample locations.



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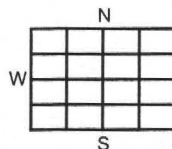
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 Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 06A \_\_\_\_\_  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A \_\_\_\_\_  
 Photo No. \_\_\_\_\_ N/A \_\_\_\_\_  
 Soil Taxonomic Unit \_\_\_\_\_ N/A \_\_\_\_\_  
 Field Office \_\_\_\_\_ N/A \_\_\_\_\_  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist K. Blomquist, M. Hessing, S. Kozusko Date: June 7, 1999

MLRA \_\_\_\_\_ 29 \_\_\_\_\_ Write-up No. N/A \_\_\_\_\_



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)					
Grasses & Grass-Like Plants							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating	
								100-76	0	100-76	Excellent (PNC)	
			ACHY		6.4	0.6		0.6	75-51	1-2	75-51	Good (Late Seral)
			SIHY		62.9	5.6		3.0	50-26	3-4	50-26	Fair (Mid Seral)
			HIJA		36.3	3.2		3.0	25-0	>4	25-0	Poor (Early Seral)
							Final Condition Rating		Mid Seral			
							Trend Indicators	Plant Vigor Decreasers		-1	Apparent Trend (Circle One)  Improving  Declining  Not Apparent	
% Weight								Age Class Distribution Decreasers		-1		
9.4								Increaser/Invaders		+1		
% Cover				105.6	9.4	6.6		Soil Erosion		+1		
								<b>Total</b>		0		
		ASLE		1.7	0.1		Site History	Use History:		N/A		
		ERIGERON						Kind of Animal:		N/A		
% Weight								Season of Use:		All Year		
0.1								Wildlife Species:		Horses, antelope, rabbits		
% Cover								Burning History:		N/A		
							Physiography	Logging History:		N/A		
								Cropping History:		N/A		
								Elevation (m)	Slope	Azimuth (°)		
								1907	3-4	68		
								Major or Component Landform				
							Slope Component (Circle one)		Crest	Summit	Shoulder	
									Backslope	Footslope		
% Weight							Kind of Slope (Circle one)		Straight	Concave	Convex	
90.4							Microrelief:		N/A			
% Cover							Depth of Watertable:		N/A			
							Drainage Class:		N/A			
							Frequency of Flooding or Ponding:		N/A			
							Duration of Flooding or Ponding:		N/A			
							(8) Present Utilization % of		N/A (Key Species)			
Notes: <p style="text-align: center;">N/A</p>												
Treatment Needs: <p style="text-align: center;">N/A</p>												
Special Considerations (e.g. critical habitat, riparian zone, etc.): <p style="text-align: center;">N/A</p>												
Associated Sites: <p style="text-align: center;">N/A</p>												

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

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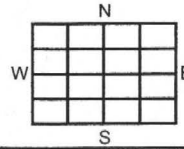
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#### Range Inventory Worksheet

Site Name 06B  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservationist V. Winkel, M. Main Date: June 3, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)					
Grasses & Grass-Like Plants		ACHY		19.7	3.3	3.3	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating	
		HIJA		1.4	0.2	0.2		100-76	0	100-76	Excellent (PNC)	
		SIHY		9.9	1.7	1.7		75-51	1-2	75-51	Good (Late Seral)	
		STCO		13.5	2.3	2.3		50-26	3-4	50-26	Fair (Mid Seral)	
								25-0	>4	25-0	Poor (Early Seral)	
Final Condition Rating							MID SERAL					
Trend Indicators							Plant Vigor Decreasers			+1	Apparent Trend (Circle One)  Improving  Declining  <b>Not Apparent</b>	
% Weight 7.5							Age Class Distribution Decreasers			+1		
% Cover							Increaser/Invaders			+1		
Forbs							Soil Erosion			+1		
MACA							<b>Total</b>			<b>+4</b>		
Site History							Use History: Moderate					
% Weight 0.0							Kind of Animal: Wild horse					
% Cover							Season of Use: YEAR LONG					
Trees & Shrubs							Wildlife Species: N/A					
ARTRW							Burning History: N/A					
GRSP							Logging History: N/A					
CHVI							Cropping History: N/A					
ATCA							Elevation (m)		Slope		Azimuth (°)	
% Weight 92.5							1821		3		211	
% Cover							Major or Component Landform: fan Piedmont					
Totals							Slope Component (Circle one)		Crest	Summit	Shoulder	
(8) Present Utilization % of (Key Species)							Backslope		Footslope			
Notes:							Kind of Slope (Circle one): Straight Concave Convex					
Treatment Needs:							Microrelief: N/A					
Special Considerations (e.g., critical habitat, riparian zone, etc.):							Depth of Watertable: N/A					
Associated Sites:							Drainage Class: N/A					
N/A							Frequency of Flooding or Ponding: N/A					
N/A							Duration of Flooding or Ponding: N/A					

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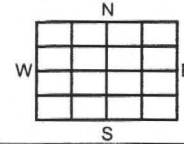
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**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 06C  
Ranch or Soil-232 No. \_\_\_\_\_ N/A  
Photo No. \_\_\_\_\_ N/A  
Soil Taxonomic Unit \_\_\_\_\_ N/A  
Field Office \_\_\_\_\_ N/A  
Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
Conservationist J. Geller, V. Winkel, S. Petersen Date: June 8, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Grasses & Grass-Like Plants		SIHY		30.0	5.6	3	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
		HIJA		34.3	6.4	3		100-76	0	100-76	Excellent (PNC)
		ACHY		1.9	0.4	0.4		75-51	1-2	75-51	Good (Late Seral)
								50-26	3-4	50-26	Fair (Mid Seral)
							25-0	>4	25-0	Poor (Early Seral)	
Final Condition Rating							MID SERAL				
% Weight							Trend Indicators	Plant Vigor Decreasers	0	Apparent Trend (Circle One)	
12.4						Age Class Distribution Decreasers		-1	Improving		
% Cover						Increase/Invaders		+1	Declining		
		ASLE		T		Soil Erosion		+1	Not Apparent		
						<b>Total</b>	<b>+1</b>				
% Weight							Site History	Use History:	N/A		
0.0						Kind of Animal:		N/A			
% Cover						Season of Use:		all year			
						Wildlife Species:		Horses, antelope, rabbits			
				0.0	0.0	0		Burning History:	N/A		
								Logging History:	N/A		
							Cropping History:	N/A			
Trees & Shrubs		CHVI		112.2	21.0	3	Physiography	Elevation (m)	Slope	Azimuth (°)	
		ARTRW		355.9	66.6	35		1772	6	276	
		EPNE		T				Major or Component Landform			
		KRLA		T				Slope Component (Circle one)	Crest	Summit	Shoulder
% Weight							Backslope	Footslope			
87.6							Kind of Slope (Circle one)	Straight	Concave	Convex	
% Cover							Microrelief:	N/A			
							Depth of Watertable:	N/A			
				468.1	87.6	38	Drainage Class:	N/A			
							Frequency of Flooding or Ponding:	N/A			
		Totals		534.3	100.0	44.4	Duration of Flooding or Ponding:	N/A			
(8)	Present Utilization	0	% of	ORHY	(Key Species)						
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

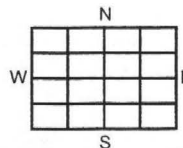
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Soil Conservation Service

#### Range Inventory Worksheet

Site Name 06D  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservationist Main, Norman, S. Kozusko Date: June 4, 1999

MLRA 29 Write-up No. 06D



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass-Like Plants		ACHY			1	1		100-76	0	100-76	Excellent (PNC)
		SIHY			1	1		75-51	1-2	75-51	Good (Late Seral)
		HIJA			7	3		50-26	3-4	50-26	Fair (Mid Seral)
								25-0	>4	25-0	Poor (Early Seral)
			BRTE			T					
							Final Condition Rating <b>MID</b>				
							Trend Indicators	Plant Vigor Decreasers	+1		Apparent Trend (Circle One)  Improving  Declining  <b>Not Apparent</b>
								Age Class Distribution Decreasers	0		
								Increase/Invaders	0		
								Soil Erosion	+3		
								<b>Total</b>	<b>+4</b>		
							Site History	Use History:	Mod Heavy		
								Kind of Animal:	Horses		
								Season of Use:	Year long		
								Wildlife Species:	Antelope, Rabbits		
								Burning History:	N/A		
							Logging History:	N/A			
							Cropping History:	N/A			
							Physiography	Elevation (m)	Slope	Azimuth (°)	
								1696	1-3	45	
								Major or Component Landform	Fan Piedment		
								Slope Component (Circle one)	Crest	Summit	Shoulder
									Backslope	Footslope	
								Kind of Slope (Circle one)	Straight	Concave	Convex
								Microrelief:	N/A		
								Depth of Watertable:	N/A		
								Drainage Class:	N/A		
								Frequency of Flooding or Ponding:	N/A		
							Duration of Flooding or Ponding:	N/A			
(8)	Present Utilization		% of		-		(Key Species)				
Notes: <p style="text-align: center;">N/A</p>											
Treatment Needs: <p style="text-align: center;">N/A</p>											
Special Considerations (e.g. critical habitat, riparian zone, etc.): <p style="text-align: center;">N/A</p>											
Associated Sites: <p style="text-align: center;">N/A</p>											



**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

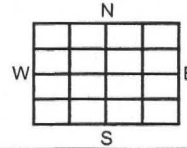
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U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 06E  
Ranch or Soil-232 No. \_\_\_\_\_ N/A  
Photo No. \_\_\_\_\_ N/A  
Soil Taxonomic Unit \_\_\_\_\_ N/A  
Field Office \_\_\_\_\_ N/A  
Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
Conservationist M., Main, Norman, S. Kozusko Date: June 6, 1999

MLRA 29 Write-up No. 06E



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Grasses & Grass-Like Plants		ORHY			4	4	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
		SIHY			2	2		100-76	0	100-76	Excellent (PNC)
		STCO			T			75-51	1-2	75-51	Good (Late Seral)
		HIJA			3	3		50-26	3-4	50-26	Fair (Mid Seral)
								25-0	>4	25-0	Poor (Early Seral)
Final Condition Rating							Late Seral				
% Weight					9	9	Trend Indicators	Plant Vigor Decreasers	+2	Apparent Trend (Circle One)	
% Cover								Age Class Distribution Decreasers	+1	Improving	
Forbs		ASLE			2			Increase/Invaders	+1	Declining	
		ASTRA			2			Soil Erosion	+3	Not Apparent	
		CASTI			1			<b>Total</b>	<b>+7</b>		
		BRASS2			T						
% Weight					5	5	Site History	Use History:	Light		
% Cover								Kind of Animal:	Horses		
Trees & Shrubs		ARTRW			69	35		Season of Use:	yearlong		
		GRSP			T			Wildlife Species:	Antelope, Rabbits, Deer		
		EPNE			4	4		Burning History:	N/A		
		CHVI/GUSA			9	3	Logging History:	N/A			
		ATCO			4		Cropping History:	N/A			
% Weight					86	42	Physiography	Elevation (m) 1909	Slope 4-6	Azimuth (°) 134	
% Cover								Major or Component Landform	Fan		
Totals				750	100	102		Slope Component (Circle one)	Crest	Summit	Shoulder
									Backslope	Footslope	
								Kind of Slope (Circle one)	Straight	Concave	Convex
							Microrelief:	N/A			
							Depth of Watertable:	N/A			
							Drainage Class:	N/A			
							Frequency of Flooding or Ponding:	N/A			
(8) Present Utilization			% of		(Key Species)		Duration of Flooding or Ponding:	N/A			
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

## Range Condition Survey Nevada Wild Horse Range, Nye County, Nevada Final Report

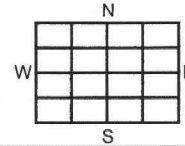
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U.S. Department of Agriculture  
Soil Conservation Service

### Range Inventory Worksheet

Site Name 08A  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec T R  
 Long:          Lat:           
 Conservationist K. Blomquist, S. Kozusko Date: June 8, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Grasses & Grass Like Plants		HIJA		11.78	1.4	1.4	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
		ACHY		T				100-76	0	100-76	Excellent (PNC)
		SIHY		51.44	5.9	3		75-51	1-2	75-51	Good (Late Seral)
								50-26	3-4	50-26	Fair (Mid Seral)
							25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating <span style="float: right;">Mid Seral</span>				
							Trend Indicators	Plant Vigor Decreasers		0	Apparent Trend (Circle One)
% Weight						Age Class Distribution Decreasers		0	Improving		
% Cover						Increaser/Invaders		-1	Declining		
		ASLE		10.38	1.2	Soil Erosion		2	Not Apparent		
						Total		1			
							Site History	Use History: <span style="float: right;">N/A</span>			
						Kind of Animal: <span style="float: right;">N/A</span>					
						Season of Use: <span style="float: right;">YEAR LONG</span>					
						Wildlife Species: <span style="float: right;">Horses, rabbit, antelope</span>					
						Burning History: <span style="float: right;">N/A</span>					
							Physiography	Logging History: <span style="float: right;">N/A</span>			
						Cropping History: <span style="float: right;">N/A</span>					
						Elevation (m)		Slope	Azimuth (°)		
						1950		4-5	84		
						Major or Component Landform					
						Slope Component (Circle one)		Crest	Summit	Shoulder	
								Backslope	Footslope		
						Kind of Slope (Circle one)		Straight	Concave	Convex	
						Microrelief: <span style="float: right;">N/A</span>					
						Depth of Watertable: <span style="float: right;">N/A</span>					
						Drainage Class: <span style="float: right;">N/A</span>					
						Frequency of Flooding or Ponding: <span style="float: right;">N/A</span>					
						Duration of Flooding or Ponding: <span style="float: right;">N/A</span>					
(8) Present Utilization			0	% of ORHY		(Key Species)					
Notes: <p style="text-align: center;">N/A</p>											
Treatment Needs: <p style="text-align: center;">N/A</p>											
Special Considerations (e.g. critical habitat, riparian zone, etc.): <p style="text-align: center;">N/A</p>											
Associated Sites: <p style="text-align: center;">N/A</p>											

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

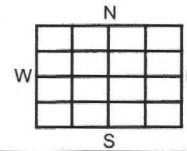
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U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name 08B  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservatorist J. Geller, S.Petersen, V.Winkel Date: June 7, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)					
Grasses & Grass-Like Plants		HIJA		16.8	4.5	4.5	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating	
		SIHY		39.9	10.6	3.0		100-76	0	100-76	Excellent (PNC)	
		ACHY		7.1	1.9	1.9		75-51	1-2	75-51	Good (Late Seral)	
		BRTE		T				50-26	3-4	50-26	Fair (Mid Seral)	
								25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating		Mid Seral			
% Weight							Trend Indicators	Plant Vigor Decreasers	-1	Apparent Trend (Circle One)		
16.9								Age Class Distribution Decreasers	0	Improving		
% Cover								Increase/Invaders	+1	Declining		
				63.8	16.9	9.4		Soil Erosion	+2	Not Apparent		
								<b>Total</b>	<b>+2</b>			
Forbs		SPAM		1.3	0.3	0.3	Site History	Use History:	N/A			
		Erigeron		0.3	0.1	0.1		Kind of Animal:	N/A			
		MACA		T				Season of Use:	Year long			
								Wildlife Species:	Horses, Antelope, Rabbits			
								Burning History:	N/A			
% Weight							Logging History:	N/A				
0.4							Cropping History:	N/A				
% Cover							Physiography	Elevation (m)	Slope	Azimuth (°)		
				1.6	0.4	0.4		1935	3-4	249		
Trees & Shrubs		CHVI		T				Major or Component Landform				
		ATCO		69.4	18.4	3.0		Slope Component (Circle one)		Crest	Summit	Shoulder
		ARNO		237.0	62.8	35.0				Backslope	Footslope	
		KOAMV		5.7	1.5			Kind of Slope (Circle one)		Straight	Concave	Convex
								Microrelief:		N/A		
% Weight						Depth of Watertable:		N/A				
82.7						Drainage Class:		N/A				
% Cover						Frequency of Flooding or Ponding:		N/A				
				312.1	82.7	38.0	Duration of Flooding or Ponding:		N/A			
				377.51	100.0	47.8						
(8)	Present Utilization	SLIGHT	% of	ORHY	(Key Species)							
Notes: N/A												
Treatment Needs: N/A												
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A												
Associated Sites: N/A												

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

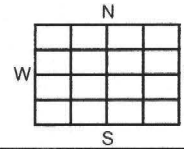
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U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 08C  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist K. Blomquist, J. Norman, M. Main, V. Winkel Date: June 3, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)					
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating	
Grasses & Grass-Like Plants		SIHY		35.0	5.2	3.0	100-76	0	100-76	Excellent (PNC)		
		ACHY		3.8	0.6	0.6	75-51	1-2	75-51	Good (Late Seral)		
		BRTE		T			50-26	3.4	50-26	Fair (Mid Seral)		
							25-0	>4	25-0	Poor (Early Seral)		
Final Condition Rating							MID SERAL					
% Weight 5.8	% Cover	PHST	T	38.8	5.8	3.6	Trend Indicators	Plant Vigor Decreasers		+1	Apparent Trend (Circle One)	
								Age Class Distribution Decreasers		+1		Improving
Forbs								Increaser/Invaders		-1	Declining	
								Soil Erosion		+1		
% Weight 0.0	% Cover							Total		+2	Not Apparent	
								Use History:		moderate		
Trees & Shrubs				0.0	0.0	0.0	Site History	Kind of Animal:		wild horse		
								Season of Use:		all year		
								Wildlife Species:		wild horse, antelope, rabbit		
								Burning History:		Unknown		
% Weight 94.2	% Cover						Physiography	Elevation (m)		1894		
								Slope		2-3		
								Azimuth (°)		240		
								Major or Component Landform				fan piedmont
Totals				629.9	94.2	36.5		Slope Component (Circle one)		Crest	Summit	Shoulder
										Backslope	Footslope	
								Kind of Slope (Circle one)		Straight	Concave	Convex
								Microrelief:		N/A		
(8) Present Utilization	% of	(Key Species)						Depth of Watertable:		N/A		
								Drainage Class:		N/A		
Notes:							N/A					
Treatment Needs:							N/A					
Special Considerations (e.g. critical habitat, riparian zone, etc.):							N/A					
Associated Sites:							N/A					

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

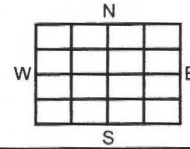
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U.S. Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name 08D  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservatorist S. Kozusko, M. Hessing, K. Blomquist Date: June 8, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Grasses & Grass-Like Plants		ACHY		6.4	0.9	1.5	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
		HIJA		7.0	0.9	0.9		100-76	0	100-76	Excellent (PNC)
		SIHY		T				75-51	1-2	75-51	Good (Late Seral)
								50-26	3-4	50-26	Fair (Mid Seral)
							25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating <b>MID SERAL</b>				
% Weight	1.8						Trend Indicators	Plant Vigor Decreasers	-1	Apparent Trend (Circle One)	
% Cover						Age Class Distribution Decreasers		1	Improving		
				13.4	1.8	2.4		Increase/Invaders	-1		Declining
								Soil Erosion	0		Not Apparent
							<b>Total</b>	-1			
							Site History	Use History:	N/A		
								Kind of Animal:	N/A		
								Season of Use:	year long		
								Wildlife Species:	Horses, antelope, rabbits		
							Burning History:	N/A			
							Logging History:	N/A			
							Cropping History:	N/A			
							Physiography	Elevation (m)	Slope	Azimuth (°)	
								1862	3	130	
								Major or Component Landform			
								Slope Component (Circle one)	Crest Backslope	Summit Shoulder Footslope	
								Kind of Slope (Circle one)	Straight	Concave Convex	
								Microrelief:	N/A		
								Depth of Watertable:	N/A		
								Drainage Class:	N/A		
							Frequency of Flooding or Ponding:	N/A			
(8)	Present Utilization	0	% of	ORHY	(Key Species)	Duration of Flooding or Ponding:	N/A				
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											



# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

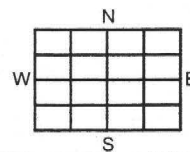
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U.S. Department of Agriculture  
Soil Conservation Service

### Range Inventory Worksheet

Site Name 12B  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservationist J. Geller, V. Winkel, S. Petersen Date: June 7, 1999

MLRA 29 Write-up No. N/A



Location in section

(1)	(2)	(3)	(4)	(5)	(6)	(7)	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Plant Group % Comp.	Phenology	Symbol or Common Plant Name	% Cover	Weight (lb/ac)	% Present by Weight	% Climax by Weight	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass-Like Plants		ACHY		170.5	34.0	34.0		75-51	1-2	75-51	Good (Late Seral)
		HIJA		103.6	20.7	5.0		50-26	3-4	50-26	Fair (Mid Seral)
								25-0	>4	25-0	Poor (Early Seral)
Final Condition Rating							MID SERAL				
							Trend Indicators	Plant Vigor Decreasers	0	Apparent Trend (Circle One)	
% Weight						Age Class Distribution Decreasers		+1	Improving		
% Cover						Increaser/Invaders		-1			Declining
				274.1	54.7	39.0		Soil Erosion	+2		
								<b>Total</b>	+2		
							Site History	Use History:	N/A		
								Kind of Animal:	N/A		
								Season of Use:	Year long		
								Wildlife Species:	Horses, antelope, rabbits		
								Burning History:	N/A		
							Logging History:	N/A			
							Cropping History:	N/A			
							Physiography	Elevation (m)	Slope	Azimuth (°)	
								1615	0-1	227	
								Major or Component Landform			
								Slope Component (Circle one)	Crest Backslope	Summit Shoulder	
									Footslope		
								Kind of Slope (Circle one)	Straight	Concave Convex	
								Microrelief:	N/A		
								Depth of Watertable:	N/A		
								Drainage Class:	N/A		
								Frequency of Flooding or Ponding:	N/A		
							Duration of Flooding or Ponding:	N/A			
(8)	Present Utilization	0	% of	ORHY, CELA, ATCA, STCO	(Key Species)						
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

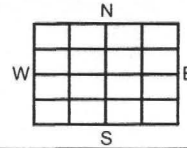
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U.S. Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 12C \_\_\_\_\_  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A \_\_\_\_\_  
 Photo No. \_\_\_\_\_ N/A \_\_\_\_\_  
 Soil Taxonomic Unit \_\_\_\_\_ N/A \_\_\_\_\_  
 Field Office \_\_\_\_\_ N/A \_\_\_\_\_  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist M. Hessing, K. Blomquist Date: June 8, 1999

MLRA 29 Write-up No. N/A



Location in section

(1)	(2)	(3)	(4)	(5)	(6)	(7)	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Plant Group % Comp.	Phenology	Symbol or Common Plant Name	% Cover	Weight (lb/ac)	% Present by Weight	% Climax by Weight	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass-Like Plants		ACHY		210.9	27.5	27.5		100-76	0	100-76	Excellent (PNC)
		HIJA		0.9	0.1	0.1		75-51	1-2	75-51	Good (Late Seral)
		BRTE		T				50-26	3-4	50-26	Fair (Mid Seral)
							25-0	>4	25-0	Poor (Early Seral)	
Final Condition Rating							LATE SERAL				
Trend Indicators							Plant Vigor Decreasers		+2	Apparent Trend (Circle One)	
Trend Indicators							Age Class Distribution Decreasers		+1	Improving	
Trend Indicators							Increaser/Invaders		-1	Declining	
Trend Indicators							Soil Erosion		+2	Not Apparent	
Trend Indicators							<b>Total</b>		<b>+4</b>		
Site History							Use History:		N/A		
Site History							Kind of Animal:		N/A		
Site History							Season of Use:		Year long		
Site History							Wildlife Species:		Horses, antelope, rabbits		
Site History							Burning History:		N/A		
Site History							Logging History:		N/A		
Site History							Cropping History:		N/A		
Physiography							Elevation (m)	Slope	Azimuth (°)		
Physiography							1587	2	239		
Physiography							Major or Component Landform				
Physiography							Slope Component (Circle one)		Crest	Summit	Shoulder
Physiography									Backslope	Footslope	
Physiography							Kind of Slope (Circle one)		Straight	Concave	Convex
Physiography							Microrelief:		N/A		
Physiography							Depth of Watertable:		N/A		
Physiography							Drainage Class:		N/A		
Physiography							Frequency of Flooding or Ponding:		N/A		
Physiography							Duration of Flooding or Ponding:		N/A		
(8)	Present Utilization		0 % of	ATCA, ORHY (Key Species)							
Notes:											
N/A											
Treatment Needs:											
N/A											
Special Considerations (e.g., critical habitat, riparian zone, etc.):											
N/A											
Associated Sites:											
N/A											

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

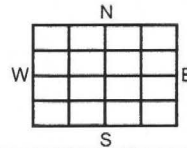
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 14A  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist M. Main, J. Norman, S. Kozusko Date: June 6, 1999

MLRA 29 Write-up No. 14a



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Grasses & Grass-Like Plants		ACHY			5	5	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
		SIHY			2	2		100-76	0	100-76	Excellent (PNC)
								75-51	1-2	75-51	Good (Late Seral)
								50-26	3-4	50-26	Fair (Mid Seral)
							25-0	>4	25-0	Poor (Early Seral)	
Final Condition Rating							Late Seral				
							Trend Indicators	Plant Vigor Decreasers	+1	Apparent Trend (Circle One)	
% Weight					7	7		Age Class Distribution Decreasers	+1		Improving
% Cover								Increase/Invaders	+1		
								Soil Erosion	+3		Declining
							Total	6	Not Apparent		
							Site History	Use History:	Light		
% Weight					2			Kind of Animal:	Horses		
% Cover								Season of Use:	year long		
								Wildlife Species:	Antelope, Rabbit, Deer		
							Burning History:	N/A			
							Logging History:	N/A			
							Cropping History:	N/A			
							Physiography	Elevation (m)	Slope	Azimuth (°)	
								1972	10	46	
								Major or Component Landform	Rolling Hills		
								Slope Component (Circle one)	Crest	Summit	Shoulder
									Backslope	Footslope	
								Kind of Slope (Circle one)	Straight	Concave	Convex
								Microrelief:	N/A		
								Depth of Watertable:	N/A		
							Drainage Class:	N/A			
							Frequency of Flooding or Ponding:	N/A			
(8)	Present Utilization		% of		(Key Species)		Duration of Flooding or Ponding:	N/A			
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

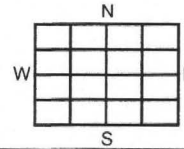
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U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 16A  
Ranch or Soil-232 No. \_\_\_\_\_ N/A  
Photo No. \_\_\_\_\_ N/A  
Soil Taxonomic Unit \_\_\_\_\_ N/A  
Field Office \_\_\_\_\_ N/A  
Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
Conservationist J. Geller, V. Winkel, S. Petersen Date: June 8, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Grasses & Grass-Like Plants		ACHY		10.6	1.9	1.9	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
		SIHY		4.6	0.8	0.8		100-76	0	100-76	Excellent (PNC)
		HIJA		118.3	21.4	15.0		75-51	1-2	75-51	Good (Late Seral)
		SPCR		14.2	2.6	2.6		50-26	3-4	50-26	Fair (Mid Seral)
		ERPU		40.6	7.3			25-0	>4	25-0	Poor (Early Seral)
		BRTE		66.3	12.0			Final Condition Rating <b>MID SERAL</b>			
% Weight							Trend Indicators	Plant Vigor Decreasers	0	Apparent Trend (Circle One)	
% Cover						Age Class Distribution Decreasers		0	Improving		
			254.6	46.0	20.3	Increase/Invaders		-1	Declining		
						Soil Erosion		+2	Not Apparent		
						<b>Total</b>		+1			
							Site History	Use History:	N/A		
								Kind of Animal:			
								Season of Use:	Year long		
								Wildlife Species:	Horses, antelope, rabbits		
								Burning History:	N/A		
							Physiography	Logging History:	N/A		
								Cropping History:	N/A		
								Elevation (m)	Slope	Azimuth (°)	
								1739	4-5	263	
								Major or Component Landform			
							Slope Component (Circle one)		Crest	Summit	Shoulder
								Backslope	Footslope		
							Kind of Slope (Circle one)		Straight	Concave	Convex
							Microrelief:		N/A		
							Depth of Watertable:		N/A		
							Drainage Class:		N/A		
							Frequency of Flooding or Ponding:		N/A		
(8)	Present Utilization	0	% of	ORHY	(Key Species)		Duration of Flooding or Ponding:		N/A		
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

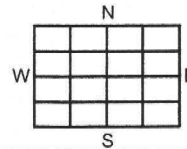
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4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name 16B  
Ranch or Soil-232 No. N/A  
Photo No. N/A  
Soil Taxonomic Unit N/A  
Field Office N/A  
Location: Sec      T      R       
Long:      Lat:       
Conservationist J. Geller, V. Winkel, K. Blomquist Date: June 6, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass-Like Plants		ACHY		48.5	8.1	8.1	100-76	0	100-76	Excellent (PNC)	
		HIJA		52.9	8.8	8.8	75-51	1-2	75-51	Good (Late Seral)	
							50-26	3-4	50-26	Fair (Mid Seral)	
							25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating <b>LATE SERAL</b>				
							Trend Indicators	Plant Vigor Decreasers +1		Apparent Trend (Circle One)	
								Age Class Distribution Decreasers +1			Improving
								Increaser/Invaders 0			
								Soil Erosion +2		Declining	
								<b>Total +4</b>			<b>Not Apparent</b>
							Site History	Use History: N/A			
								Kind of Animal: N/A			
								Season of Use: Year long			
								Wildlife Species: Horses, antelope, rabbits			
								Burning History: N/A			
							Logging History: N/A				
							Cropping History: N/A				
							Physiography	Elevation (m)	Slope	Azimuth (°)	
								1710	2-3	285	
								Major or Component Landform			
								Slope Component (Circle one)		Crest Summit Shoulder	
										Backslope Footslope	
								Kind of Slope (Circle one)		Straight Concave Convex	
								Microrelief: N/A			
								Depth of Watertable: N/A			
							Drainage Class: N/A				
							Frequency of Flooding or Ponding: N/A				
							Duration of Flooding or Ponding: N/A				
(8)	Present Utilization		% of		(Key Species)						
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											



# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

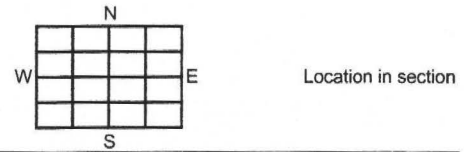
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name 16C  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservationist V. Winkel, J. Geller, K. Blomquist Date: June 4, 1999

MLRA 29 Write-up No. N/A



(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)						
Grasses & Grass-Like Plants		HIJA		315.6	61.2	15.0	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating		
		SIHY		5.9	1.1	1.1		100-76	0	100-76	Excellent (PNC)		
		BRTE		T				75-51	1-2	75-51	Good (Late Seral)		
		STCO		T				50-26	3-4	50-26	Fair (Mid Seral)		
								25-0	>4	25-0	Poor (Early Seral)		
							Final Condition Rating		Mid Seral				
							Trend Indicators	Plant Vigor Decreasers			-1	Apparent Trend (Circle One)  Improving  Declining  Not Apparent	
%								Age Class Distribution Decreasers			-1		
%								Increaser/Invaders			-1		
								Soil Erosion			+1		
								<b>Total</b>			-3		
							Site History	Use History:				N/A	
								Kind of Animal:				N/A	
								Season of Use:				year long	
								Wildlife Species:				Horses, antelope, rabbits	
								Burning History:				N/A	
							Logging History:				N/A		
							Cropping History:				N/A		
							Physiography	Elevation (m)		Slope		Azimuth (°)	
								1646		2-3		275	
								Major or Component Landform					
								Slope Component (Circle one)		Crest	Summit Shoulder		
										Backslope	Footslope		
								Kind of Slope (Circle one)		Straight	Concave Convex		
								Microrelief:					N/A
								Depth of Watertable:					N/A
							Drainage Class:					N/A	
							Frequency of Flooding or Ponding:					N/A	
							Duration of Flooding or Ponding:					N/A	
							(8) Present Utilization % of (Key Species)						
Notes: <p style="text-align: center;">N/A</p>													
Treatment Needs: <p style="text-align: center;">N/A</p>													
Special Considerations (e.g. critical habitat, riparian zone, etc.): <p style="text-align: center;">N/A</p>													
Associated Sites: <p style="text-align: center;">N/A</p>													

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

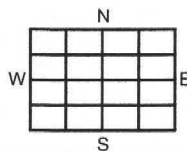
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name \_\_\_\_\_ 17A  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist Main, Norman, Kozusko Date: June 6, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)			
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %
Grasses & Grass-Like Plants		HIJA			T		100-76	0	100-76	Excellent (PNC)
							75-51	1-2	75-51	Good (Late Seral)
							50-26	3-4	50-26	Fair (Mid Seral)
							25-0	>4	25-0	Poor (Early Seral)
							Final Condition Rating <span style="float: right;">Poor early Seral</span>			
Forbs		HAGL			89		Trend Indicators	Plant Vigor Decreasers	-2	Apparent Trend (Circle One)  Improving  Declining  Not Apparent
		SPAM			3	2		Age Class Distribution Decreasers	-2	
								Increase/Invaders	-2	
								Soil Erosion	+3	
						<b>Total</b>	-2			
% Weight							Site History	Use History:	Heavy	
% Cover						Kind of Animal:		Horses		
						Season of Use:		year long		
						Wildlife Species:		antelope, rabbits		
Trees & Shrubs		ATCO			5	5	Physiography	Burning History:	N/A	
		ARSP			2	2		Logging History:	N/A	
		KOAMV			1			Cropping History:	N/A	
								Elevation (m)	Slope	
% Weight							1554	0-1	227	
% Cover							Major or Component Landform			Lake Plain
							Slope Component (Circle one)			Crest Summit Shoulder Backslope Footslope
							Kind of Slope (Circle one)			Straight Concave Convex
							Microrelief:			N/A
							Depth of Watertable:			N/A
							Drainage Class:			N/A
							Frequency of Flooding or Ponding:			N/A
(8)	Present Utilization		% of			(Key Species)	Duration of Flooding or Ponding:		N/A	
Notes:										
Treatment Needs: <span style="float: right;">N/A</span>										
Special Considerations (e.g, critical habitat, riparian zone, etc.): <span style="float: right;">N/A</span>										
Associated Sites: <span style="float: right;">N/A</span>										

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

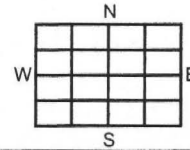
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name 17B  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservationist Main, Norman, Kozusko Date: June 4, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)								
Grasses & Grass-Like Plants		ORHY			5	5	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating				
		BRTE			T			100-76	0	100-76	Excellent (PNC)				
		HIJA			2	2		75-51	1-2	75-51	Good (Late Seral)				
		SPCR				T		50-26	3-4	50-26	Fair (Mid Seral)				
								25-0	>4	25-0	Poor (Early Seral)				
							Final Condition Rating		Late Seral						
% Weight					7	7	Trend Indicators	Plant Vigor Decreasers		+1	Apparent Trend (Circle One)				
% Cover						14		Age Class Distribution Decreasers		0		Improving			
		MACA			1	1		Increaser/Invaders		-1		Declining			
		CHST			3	2		Soil Erosion		+3	(Not Apparent)				
		SAKA			5			<b>Total</b>		+3					
		HAGL													
% Weight					9	3	Site History	Use History: <u>N/A</u>							
% Cover								Kind of Animal: <u>Horses</u>							
								Season of Use: <u>Year long</u>							
								Wildlife Species: <u>Antelope, rabbit, horse</u>							
								Burning History: <u>N/A</u>							
							Logging History: <u>N/A</u>								
							Cropping History: <u>N/A</u>								
Trees & Shrubs		ATCO			64	35	Physiography	Elevation (m)		Slope		Azimuth (°)			
		ARSP			20	15		1598		0-1		133			
								Major or Component Landform				Fan piedment			
								Slope Component (Circle one)		Crest		Summit		Shoulder	
											Backslope		Footslope		
% Weight					84	50	Kind of Slope (Circle one)		Straight		Concave		Convex		
% Cover							Microrelief:				N/A				
							Depth of Watertable:				N/A				
							Drainage Class:				N/A				
							Frequency of Flooding or Ponding:				N/A				
		Totals			450	100									
				(8) Present Utilization		% of		(Key Species)							
Notes:												N/A			
Treatment Needs:												N/A			
Special Considerations (e.g. critical habitat, riparian zone, etc.):												N/A			
Associated Sites:												N/A			

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

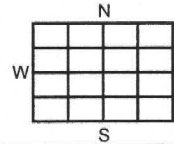
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name 17C  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservationist MAIN,NORMAN,KOZUSKO Date: June 6, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass Like Plants							100-76	0	100-76	Excellent (PNC)	
							75-51	1-2	75-51	Good (Late Seral)	
							50-26	3-4	50-26	Fair (Mid Seral)	
							25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating		Early Seral		
% Weight 0%	% Cover						Trend Indicators	Plant Vigor Decreasers		-2	Apparent Trend (Circle One)
								Age Class Distribution Decreasers		-2	
Soil Erosion		+1	Declining								
Total		-5		Not Apparent							
								Site History	Use History: Heavy		
							Kind of Animal: Horses, antelope, rabbits				
							Season of Use: Year long				
							Wildlife Species: Horses, antelope, rabbits				
							Burning History: N/A				
% Weight 97%	% Cover						Physiography	Elevation (m)		Slope	Azimuth (°)
								1610		1-2	301
								Major or Component Landform: Lake Plain			
								Slope Component (Circle one): Crest Summit Shoulder Backslope Footslope			
								Kind of Slope (Circle one): Straight Concave Convex			
% Weight 3%	% Cover						Microrelief: N/A				
							Depth of Watertable: N/A				
							Drainage Class: N/A				
							Frequency of Flooding or Ponding: N/A				
							Duration of Flooding or Ponding: N/A				
(8) Present Utilization		0 % of		N/A		(Key Species)					
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

# Range Condition Survey Nevada Wild Horse Range, Nye County, Nevada Final Report

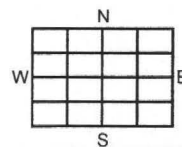
NV-ECS-1  
4/88 (Rev)

U.S. Department of Agriculture  
Soil Conservation Service

## Range Inventory Worksheet

Site Name \_\_\_\_\_ 20A  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist MAIN, NORMAN, KOZUSKO Date: June 4, 1999

MLRA \_\_\_\_\_ 29 Write-up No. \_\_\_\_\_ N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass Like Plants							100-76	0	100-76	Excellent (PNC)	
							75-51	1-2	75-51	Good (Late Seral)	
							50-26	3-4	50-26	Fair (Mid Seral)	
							25-0	>4	25-0	Poor (Early Seral)	
Final Condition Rating							Mid Seral				
% Weight							Trend Indicators	Plant Vigor Decreasers	-2	Apparent Trend (Circle One)	
								Age Class Distribution Decreasers	-2		Improving
% Cover								Increase/Invaders	-2		
								Soil Erosion	0		
								<b>Total</b>	-6		Not Apparent
Forbs		HAGL			60		Site History	Use History: N/A			
		SAKA			T	Kind of Animal: HORSES					
						Season of Use: Year long					
						Wildlife Species: Horses, antelope, rabbits					
						Burning History: N/A					
% Weight 60%					60.0		Logging History: N/A				
% Cover							Cropping History: N/A				
Trees & Shrubs		KRLA			35	35	Physiography	Elevation (m)	Slope	Azimuth (°)	
		ATCO			5	3		1595	0-1	flat	
						Major or Component Landform lake / plain					
						Slope Component (Circle one) Crest Summit Shoulder Backslope Footslope					
						Kind of Slope (Circle one) Straight Concave Convex					
						Microrelief: N/A					
						Depth of Watertable: N/A					
						Drainage Class: N/A					
						Frequency of Flooding or Ponding: N/A					
						Duration of Flooding or Ponding: N/A					
(8) Present Utilization % of N/A (Key Species)											
Notes: Early seral because lack of desirable grass species and increase in undesirable species											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											



# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

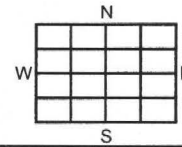
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name 20B  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec T R  
 Long:          Lat:           
 Conservationist GELLER, WINKEL, PETERSEN Date: June 8, 1999

MLRA 29 Write-up No. N/A



Location in section

(1)	(2)	(3)	(4)	(5)	(6)	(7)	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Plant Group % Comp.	Phenology	Symbol or Common Plant Name	% Cover	Weight (lb/ac)	% Present by Weight	% Climax by Weight	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass Like Plants		ACHY		2.4	0.6	0.6		100-76	0	100-76	Excellent (PNC)
		ERPU		19.3	4.9	2.0		75-51	1-2	75-51	Good (Late Seral)
								50-26	3-4	50-26	Fair (Mid Seral)
								25-0	>4	25-0	Poor (Early Seral)
							Final Condition Rating		Late Seral		
							Trend Indicators	Plant Vigor Decreasers	-1	Apparent Trend (Circle One)	
% Weight						Age Class Distribution Decreasers		-1	Improving		
5.5						Increase/Invaders		-1			
% Cover				21.7	5.5	2.6		Soil Erosion	+2		Declining
		ASLE		11.7	3.0			<b>Total</b>	-1		
									Not Apparent		
							Site History	Use History:	N/A	Site History	
								Kind of Animal:	N/A		
								Season of Use:	Year long		
								Wildlife Species:	Horses, antelope, rabbits		
								Burning History:	N/A		
							Logging History:	N/A	Physiography		
							Cropping History:	N/A			
							Elevation (m)	Slope		Azimuth (°)	
							1551	1-2		270	
							Major or Component Landform				
							Slope Component (Circle one)	Crest	Summit	Shoulder	
								Backslope	Footslope		
							Kind of Slope (Circle one)	Straight	Concave	Convex	
							Microrelief:	N/A			
							Depth of Watertable:	N/A			
							Drainage Class:	N/A			
							Frequency of Flooding or Ponding:	N/A			
(8)	Present Utilization		0	% of	ORHY, KRLA	(Key Species)	Duration of Flooding or Ponding:		N/A		
Notes:											
N/A											
Treatment Needs:											
N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.):											
N/A											
Associated Sites:											
N/A											

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

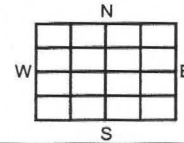
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name 22A  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist BLOMQUIST, HESSING, KOZUSKO, REGAN Date: June 7, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)			
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %
Grasses & Grass-Like Plants		HIJA		184.1	34.4	15.0	100-76	0	100-76	Excellent (PNC)
		ACHY		28.6	5.3	5.3	75-51	1-2	75-51	Good (Late Seral)
		SIHY		2.3	0.4	0.4	50-26	3-4	50-26	Fair (Mid Seral)
		BRTE		4.1	0.8		25-0	>4	25-0	Poor (Early Seral)
Final Condition Rating							LATE-SERAL			
% Weight				219.1	40.9	20.7	Trend Indicators		Apparent Trend (Circle One)	
% Cover							Plant Vigor Decreasers	+1	Improving	
							Age Class Distribution Decreasers	0	Declining	
							Increase/Invaders	+1	Not Apparent	
							Soil Erosion	+1		
							<b>Total</b>	<b>+3</b>		
							Site History			
							Use History:	N/A		
							Kind of Animal:	N/A		
							Season of Use:	Year long		
							Wildlife Species:	Horses, antelope, rabbits		
							Burning History:	N/A		
							Logging History:	N/A		
							Cropping History:	N/A		
							Physiography			
							Elevation (m)	Slope	Azimuth (°)	
							1782	4-5	113	
							Major or Component Landform			
							Slope Component (Circle one)	Crest	Summit	Shoulder
								Backslope	Footslope	
							Kind of Slope (Circle one)	Straight	Concave	Convex
							Microrelief:	N/A		
							Depth of Watertable:	N/A		
							Drainage Class:	N/A		
							Frequency of Flooding or Ponding:	N/A		
							Duration of Flooding or Ponding:	N/A		
(8)	Present Utilization		% of	N/A		(Key Species)				
Notes: NO GRAZING EVIDENCE										
Treatment Needs: N/A										
Special Considerations (e.g, critical habitat, riparian zone, etc.): N/A										
Associated Sites: N/A										

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

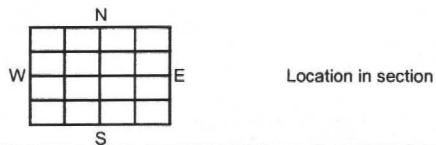
NV-ECS-1  
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U.S. Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 42B  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservatorist M.MAIN;J.NORMAN;S.KOZUSKO Date: June 6, 1999

MLRA \_\_\_\_\_ 29 Write-up No. N/A



(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)					
Grasses & Grass-Like Plants		ACHY			1.0	1.0	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating	
		BRTE			T			100-76	0	100-76	Excellent (PNC)	
		HIJA			1.0	1.0		75-51	1-2	75-51	Good (Late Seral)	
								50-26	3-4	50-26	Fair (Mid Seral)	
								25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating MID-SERAL					
% Weight				0.0	2.0	2.0	Trend Indicators	Plant Vigor Decreasers		-1	Apparent Trend (Circle One)	
% Cover								Age Class Distribution Decreasers		-2		Improving
		SAIB				25.0		Incraser/Invaders		-2	Declining	
		MACA				5.0		Soil Erosion		3		Not Apparent
		LEPIDIUM				3.0		<b>Total</b>		-2		
		ASLE				2.0						
% Weight							Site History	Use History: HEAVY				
% Cover								Kind of Animal: HORSES				
								Season of Use: Year long				
								Wildlife Species: ANTELOPE; RABBITS				
								Burning History: N/A				
							Logging History: N/A					
							Cropping History: N/A					
							Physiography	Elevation (m)	Slope	Azimuth (°)		
								1619	0-1	121		
								Major or Component Landform				
								Slope Component (Circle one)		Crest Backslope	Summit Shoulder	Footslope
								Kind of Slope (Circle one)		Straight	Concave	Convex
								Microrelief:		N/A		
								Depth of Watertable:		N/A		
								Drainage Class:		N/A		
							Frequency of Flooding or Ponding:		N/A			
							Duration of Flooding or Ponding:		N/A			
(8)	Present Utilization		% of	N/A	(Key Species)							
Notes: N/A												
Treatment Needs: N/A												
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A												
Associated Sites: N/A												

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

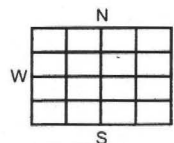
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U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name \_\_\_\_\_ 42C \_\_\_\_\_  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A \_\_\_\_\_  
 Photo No. \_\_\_\_\_ N/A \_\_\_\_\_  
 Soil Taxonomic Unit \_\_\_\_\_ N/A \_\_\_\_\_  
 Field Office \_\_\_\_\_ N/A \_\_\_\_\_  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist M.MAIN;J.NORMAN;S.KOZUSKO \_\_\_\_\_ Date: June 6, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)			
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %
Grasses & Grass-Like Plants		ACHY		9.5	1.2	1.2	100-76	0	100-76	Excellent (PNC)
							75-51	1-2	75-51	Good (Late Seral)
							50-26	3-4	50-26	Fair (Mid Seral)
							25-0	>4	25-0	Poor (Early Seral)
							Final Condition Rating MID-SERAL			
% Weight 1.2				9.5	1.2	1.2	Trend Indicators			Apparent Trend (Circle One)  Improving  Declining  <b>Not Apparent</b>
% Cover										
		MACA		6.4	0.8	0.8				
		SAIB		T						
							Site History			
							Use History: N/A			
							Kind of Animal: N/A			
							Season of Use: Year long			
							Wildlife Species: Horses, antelope, rabbits			
							Burning History: N/A			
							Logging History: N/A			
							Cropping History: N/A			
							Physiography			
							Elevation (m)	Slope	Azimuth (°)	
							1657	0-1	265	
							Major or Component Landform			
							Slope Component (Circle one)	Crest Backslope	Summit Shoulder	
							Kind of Slope (Circle one) Straight Concave Convex			
							Microrelief: N/A			
							Depth of Watertable: N/A			
							Drainage Class: N/A			
							Frequency of Flooding or Ponding: N/A			
							Duration of Flooding or Ponding: N/A			
(8)	Present Utilization		% of	N/A	(Key Species)					
Notes: N/A										
Treatment Needs: N/A										
Special Considerations (e.g, critical habitat, riparian zone, etc.): N/A										
Associated Sites: N/A										

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

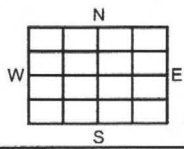
NV-ECS-1  
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U.S. Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 42D \_\_\_\_\_  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A \_\_\_\_\_  
 Photo No. \_\_\_\_\_ N/A \_\_\_\_\_  
 Soil Taxonomic Unit \_\_\_\_\_ N/A \_\_\_\_\_  
 Field Office \_\_\_\_\_ N/A \_\_\_\_\_  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist M.MAIN;J.NORMAN;S.KOZUSKO \_\_\_\_\_ Date: June 6, 1999

MLRA \_\_\_\_\_ 29 \_\_\_\_\_ Write-up No. N/A \_\_\_\_\_



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)		
								Conditions Class Indicators	
Grasses & Grass Like Plants		ACHY		4.1	0.6	0.6	% Climax Vegetation: 100-76 (circled)		
		BRTE					Species Diversity: 0 (circled)		
							Production %: 100-76 (circled)		
							Condition rating: Excellent (PNC)		
							75-51: 1-2 (circled)		
							50-26: 3-4 (circled)		
							25-0: >4		
							50-26: 50-26 (circled)		
							25-0: 25-0 (circled)		
							Condition rating: Fair (Mid Seral)		
							Condition rating: Poor (Early Seral)		
							<b>Final Condition Rating</b>		
							MID-SERAL		
% Weight	0.6			4.1	0.6	0.6	<b>Trend Indicators</b>		
								Plant Vigor Decreasers: 0	<b>Apparent Trend (Circle One)</b>
								Age Class Distribution Decreasers: -1	
								Increasing/Invaders: -1	
								Soil Erosion: 2	
<b>Total</b> : 0									
							<b>Site History</b>		
							Use History: HEAVY		
							Kind of Animal: HORSES		
							Season of Use: Year long		
							Wildlife Species: ANTELOPE;RABBITS		
							Burning History: N/A		
							Logging History: N/A		
							Cropping History: N/A		
Trees & Shrubs		KRLA		35.0	4.9	1.5	<b>Physiography</b>		
								Elevation (m): 1612	
								Slope: 0-1	
								Azimuth (°): 112	
								Major or Component Landform	
							<b>Physiography</b>		
							Slope Component (Circle one): Crest Summit Shoulder Backslope Footslope		
							Kind of Slope (Circle one): Straight Concave Convex		
							Microrelief: N/A		
							Depth of Watertable: N/A		
							Drainage Class: N/A		
							Frequency of Flooding or Ponding: N/A		
<b>(8) Present Utilization</b>			30	% of	ACHY	(Key Species)	Duration of Flooding or Ponding: N/A		
<b>Notes:</b>									
N/A									
<b>Treatment Needs:</b>									
N/A									
<b>Special Considerations (e.g. critical habitat, riparian zone, etc.):</b>									
N/A									
<b>Associated Sites:</b>									
N/A									



# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

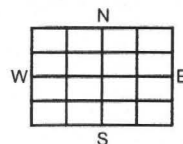
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U.S. Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name \_\_\_\_\_ 42E  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist M.MAIN;J.NORMAN;S.KOZUSKO Date: June 4, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)			
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %
Grasses & Grass Like Plants		SIHY			1.0	1.0	100-76	0	100-76	Excellent (PNC)
		BRTE			T		75-51	1-2	75-51	Good (Late Seral)
		ACHY			1.0	1.0	50-26	3-4	50-26	Fair (Mid Seral)
		HIJA			T		25-0	>4	25-0	Poor (Early Seral)
Final Condition Rating							Mid-Seral			
% Weight							Trend Indicators	Plant Vigor Decreasers	1	Apparent Trend (Circle One)
2.0						Age Class Distribution Decreasers		0	Improving	
% Cover					2.0	2.0		Increase/Invaders	1	Declining
								Soil Erosion	3	Not Apparent
							<b>Total</b>	5		
							Site History	Use History:	N/A	
								Kind of Animal:	HORSES	
								Season of Use:	Year long	
								Wildlife Species:	ANTELOPES;RABBITS	
								Burning History:	N/A	
							Logging History:	N/A		
							Cropping History:	N/A		
					3.0	3.0	Physiography	Elevation (m)		Azimuth (°)
					90.0	35.0		1696		315
					T			Major or Component Landform		
								Slope Component (Circle one)	Crest Backslope	Summit Shoulder
									Footslope	
								Kind of Slope (Circle one)	Straight	Concave Convex
								Microrelief:	N/A	
								Depth of Watertable:	N/A	
								Drainage Class:	N/A	
					95.0	40.0		Frequency of Flooding or Ponding:	N/A	
							Duration of Flooding or Ponding:	N/A		
(8)	Present Utilization		% of	N/A		(Key Species)				
Notes: APPROXIMATELY 100 YARDS EAST OF OCULAR ESTIMATE 06D -										
Treatment Needs: N/A										
Special Considerations (e.g, critical habitat, riparian zone, etc.): N/A										
Associated Sites: N/A										

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

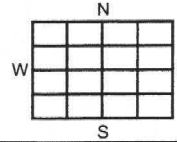
NV-ECS-1  
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U.S. Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name 46A  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservationist S.KOZUSKO;K.BLOMQUIST;M.HESSING Date: June 7, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)					
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating	
Grasses & Grass Like Plants		ACHY		121.8	7.3	7.3	100-76	0	100-76	Excellent (PNC)		
		HIJA		219.8	13.1	8.0	75-51	1-2	75-51	Good (Late Seral)		
		SPCR		6.4	0.4	0.4	50-26	3-4	50-26	Fair (Mid Seral)		
		B RTE		330.0	19.7		25-0	>4	25-0	Poor (Early Seral)		
		SIHY		0.5	0.0							
		STCO		14.8	0.9	0.9						
Final Condition Rating							LATE-SERAL					
% Weight							Trend Indicators	Plant Vigor Decreasers	1	Apparent Trend (Circle One)		
41.3						Age Class Distribution Decreasers		0	Improving			
% Cover						Increase/Invaders		-1	Declining			
			693.3	41.3	16.6	Soil Erosion		2	Not Apparent			
						<b>Total</b>		2				
Forbs		SPAM		1.9	0.1	0.1	Site History	Use History:	N/A			
		MACA		2.9	0.2	0.2		Kind of Animal:	N/A			
		SAIB		T				Season of Use:	N/A			
% Weight						Wildlife Species:		N/A				
0.3						Burning History:		N/A				
% Cover						Logging History:	N/A					
				4.8	0.3	0.3	Cropping History:	N/A				
Trees & Shrubs		CHVI		79.9	4.8	3.0	Physiography	Elevation (m)		Slope		Azimuth (°)
		KRLA		25.0	1.5	1.5		1777	5	151		
		ATCA		876.5	52.2	30.0		Major or Component Landform				
								Slope Component (Circle one)	Crest Backslope	Summit Shoulder		
% Weight						Kind of Slope (Circle one)		Straight	Concave Convex			
58.4						Microrelief:		N/A				
% Cover						Depth of Watertable:		N/A				
				981.4	58.4	34.5		Drainage Class:	N/A			
								Frequency of Flooding or Ponding:	N/A			
				1679.4	100.0	51.4		Duration of Flooding or Ponding:	N/A			
(8)	Present Utilization	30	% of	ACHY	(Key Species)							
Notes: N/A												
Treatment Needs: N/A												
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A												
Associated Sites: N/A												

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

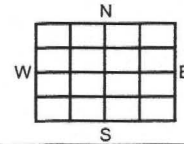
NV-ECS-1  
4/88 (Rev)

U.S. Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name \_\_\_\_\_ 46B  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservatorist M.MAIN;J.NORMAN;S.KOZUSKO Date: June 6, 1999

MLRA 29 Write-up No. N/A



Location in section

(1)	(2)	(3)	(4)	(5)	(6)	(7)	Evaluate each indicator in relation to climax for the site (circle those that apply)						
Plant Group % Comp.	Phenology	Symbol or Common Plant Name	% Cover	Weight (lb/ac)	% Present by Weight	% Climax by Weight	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating		
Grasses & Grass-Like Plants		ACHY		115.0	17.3	17.3			100-76	0	100-76	Excellent (PNC)	
		HIJA		21.5	3.2	3.2		75-51	1-2	75-51	Good (Late Seral)		
								50-26	3-4	50-26	Fair (Mid Seral)		
								25-0	>4	25-0	Poor (Early Seral)		
							Final Condition Rating <u>LATE-SERAL</u>						
							Trend Indicators	Plant Vigor Decreasers		2	Apparent Trend (Circle One)  <u>Improving</u>  Declining  Not Apparent		
								Age Class Distribution Decreasers		2			
								Increase/Invaders		1			
								Soil Erosion		3			
							<b>Total</b>		<b>8</b>				
							Site History	Use History: <u>LIGHT</u>					
								Kind of Animal: <u>HORSES</u>					
								Season of Use: <u>YEARLONG</u>					
								Wildlife Species: <u>ANTELOPE,RABBITS</u>					
							Burning History: <u>N/A</u>						
							Logging History: <u>N/A</u>						
							Cropping History: <u>N/A</u>						
							Physiography	Elevation (m)	Slope	Azimuth (°)			
								1701	1	117			
								Major or Component Landform					
								Slope Component (Circle one)		Crest	Summit	Shoulder	
										Backslope	Footslope		
								Kind of Slope (Circle one)		Straight	Concave	Convex	
								Microrelief:		N/A			
								Depth of Watertable:		N/A			
							Drainage Class:		N/A				
							Frequency of Flooding or Ponding:		N/A				
							Duration of Flooding or Ponding:		N/A				
(8) Present Utilization			30 % of	ACHY		(Key Species)	Duration of Flooding or Ponding: N/A						
Notes: <p style="text-align: center;">N/A</p>													
Treatment Needs: <p style="text-align: center;">N/A</p>													
Special Considerations (e.g, critical habitat, riparian zone, etc.): <p style="text-align: center;">N/A</p>													
Associated Sites: <p style="text-align: center;">N/A</p>													

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

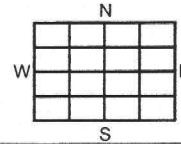
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name 46D  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec T R  
 Long:          Lat:           
 Conservationist V.WINKEL;K.BLOMQUIST;J.GELLER Date: June 4, 1999

MLRA 29 Write-up No. N/A



Location in section

(1)	(2)	(3)	(4)	(5)	(6)	(7)	Evaluate each indicator in relation to climax for the site (circle those that apply)					
Plant Group % Comp.	Phenology	Symbol or Common Plant Name	% Cover	Weight (lb/ac)	% Present by Weight	% Climax by Weight	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating	
Grasses & Grass Like Plants		ACHY		1.3	0.1	0.1			100-76	0	100-76	Excellent (PNC)
								75-51	1-2	75-51	Good (Late Seral)	
								50-26	3-4	50-26	Fair (Mid Seral)	
								25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating					MID-SERAL
							Trend Indicators	Plant Vigor Decreasers		-1	Improving	
								Age Class Distribution Decreasers		-1		
								Soil Erosion		2	Declining	
								<b>Total</b>		-1		
							Site History	Use History: N/A				
								Kind of Animal: Horses				
								Season of Use: Year Long				
								Wildlife Species: Antelope, Rabbits				
								Burning History: N/A				
								Logging History: N/A				
							Cropping History: N/A					
							Physiography	Elevation (m)	Slope	Azimuth (°)		
								1599	0-1	106		
								Major or Component Landform				
								Slope Component (Circle one)		Crest	Summit	Shoulder
										Backslope	Footslope	
								Kind of Slope (Circle one)		Straight	Concave	Convex
								Microrelief:		N/A		
							Depth of Watertable:		N/A			
							Drainage Class:		N/A			
							Frequency of Flooding or Ponding:		N/A			
							Duration of Flooding or Ponding:		N/A			
							(8) Present Utilization <u>30</u> % of <u>ACHY</u> (Key Species)					
Notes: <u>N/A</u>												
Treatment Needs: <u>N/A</u>												
Special Considerations (e.g. critical habitat, riparian zone, etc.): <u>N/A</u>												
Associated Sites: <u>N/A</u>												

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

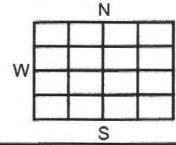
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name 46E  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec T R R  
 Long:          Lat:           
 Conservationist M.MAIN;J.NORMAN;S.KOZUSKO Date: June 4, 1999

MLRA 29 Write-up No. N/A



Location in section

(1)	(2)	(3)	(4)	(5)	(6)	(7)	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Plant Group % Comp.	Phenology	Symbol or Common Plant Name	% Cover	Weight (lb/ac)	% Present by Weight	% Climax by Weight	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass-Like Plants		ACHY		53.6	8.5	8.5		100-76	0	100-76	Excellent (PNC)
								75-51	1-2	75-51	Good (Late Seral)
								50-26	3-4	50-26	Fair (Mid Seral)
							25-0	>4	25-0	Poor (Early Seral)	
Final Condition Rating							LATE-SERAL				
% Weight 8.5				53.6	8.5	8.5	Trend Indicators	Plant Vigor Decreasers	-1	Apparent Trend (Circle One)	
								Age Class Distribution Decreasers	-1		Improving
% Cover								Increase/Invaders	-1		Declining
								Soil Erosion	2		Not Apparent
Total							-1				
% Weight 4.2				26.7	4.2	2.6	Site History	Use History:	N/A		
								Kind of Animal:	N/A		
% Cover								Season of Use:	N/A		
								Wildlife Species:	N/A		
							Burning History:		N/A		
							Logging History:		N/A		
							Cropping History:		N/A		
Trees & Shrubs				ATCA	397.8	62.8	Physiography	Elevation (m)	Slope	Azimuth (°)	
				KRLA	148.0	23.4		1602	0-1	69	
				ARSP	5.8	0.9		Major or Component Landform			
				GUSA	1.2	0.2		Slope Component (Circle one) Crest Summit Shoulder Backslope Footslope			
% Weight 87.3				552.9	87.3	50.9	Kind of Slope (Circle one) Straight Concave Convex				
% Cover							Microrelief: N/A				
							Depth of Watertable: N/A				
							Drainage Class: N/A				
							Frequency of Flooding or Ponding: N/A				
							Duration of Flooding or Ponding: N/A				
(8)	Present Utilization		30 %	of ACHY		(Key Species)	Duration of Flooding or Ponding: N/A				
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g, critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											



# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

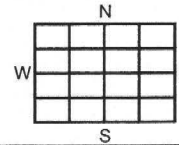
NV-ECS-1  
4/88 (Rev)

U.S. Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name 46F  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservatorist K.BLOMQUIST;V.WINKEL;J.GELLER Date: June 6, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass Like Plants		ACHY		23.6	9.1	9.1	100-76	0	100-76	Excellent (PNC)	
		HIJA		36.8	14.1	8.0	75-51	1-2	75-51	Good (Late Seral)	
							50-26	3-4	50-26	Fair (Mid Seral)	
							25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating MID-SERAL				
% Weight 23.2	% Cover						Trend Indicators	Plant Vigor Decreasers	-1	Apparent Trend (Circle One)	
								Age Class Distribution Decreasers	-1		Improving
								Soil Erosion	2		Declining
					Total	-1	Not Apparent				
Forbs		MACA		0.4	0.1	0.1	Site History				
		CYGL		T			Use History:	N/A			
							Kind of Animal:	Horses			
% Weight 0.1	% Cover						Season of Use:	Year Long			
					0.4	0.1	0.1	Wildlife Species:	Antelope, Rabbits		
					141.6	54.3	7.0	Burning History:	N/A		
					46.6	17.9	17.9	Logging History:	N/A		
					11.9	4.5	3.0	Cropping History:	N/A		
Trees & Shrubs						Physiography	Elevation (m)	Slope	Azimuth (°)		
							1669	0-1	281		
							Major or Component Landform	Slope Component (Circle one) Crest Summit Shoulder Backslope Footslope			
% Weight 76.7	% Cover						Kind of Slope (Circle one)	Straight Concave Convex			
					200.0	76.7	27.9	Microrelief:	N/A		
					260.8	100.0	45.1	Depth of Watertable:	N/A		
					Totals			Drainage Class:	N/A		
								Frequency of Flooding or Ponding:	N/A		
(8)	Present Utilization	30	% of	ACHY	(Key Species)	Duration of Flooding or Ponding: N/A					
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

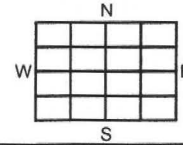
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name \_\_\_\_\_ 49A  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservatorist S.PETERSEN;V.WINKEL;J.GELLER Date: June 7, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Grasses & Grass-Like Plants		SIHY		7.3	1.2	1.2	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
		ACHY		18.79	3.0	3.0		100-76	0	100-76	Excellent (PNC)
								75-51	1-2	75-51	Good (Late Seral)
								50-26	3-4	50-26	Fair (Mid Seral)
							25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating MID-SERIAL				
% Weight							Trend Indicators	Plant Vigor Decreasers		1	Apparent Trend (Circle One)
4.2						Age Class Distribution Decreasers		1	Improving		
% Cover				26.09	4.2	4.2		Increase/Invaders		-1	Declining
		MACA		T				Soil Erosion		2	Not Apparent
		ERIGERON		T			Total		3		
% Weight							Site History	Use History: N/A			
								Kind of Animal: Horses			
% Cover								Season of Use: Year Long			
								Wildlife Species: Antelope, Rabbits			
							Burning History: N/A				
							Logging History: N/A				
							Cropping History: N/A				
Trees & Shrubs		CHVI		105.5	16.8	2.0	Physiography	Elevation (m)	Slope	Azimuth (°)	
		ARTRW		457	72.8	30.0		1823	2-3	191	
		GRSP		28.6	4.6	2.5		Major or Component Landform			
		ATCA		10.4	1.7	0.9		Slope Component (Circle one) Crest Summit Shoulder Backslope Footslope			
% Weight							Kind of Slope (Circle one) Straight Concave Convex				
95.8							Microrelief: N/A				
% Cover							Depth of Watertable: N/A				
				601.5	95.8	35.4	Drainage Class: N/A				
							Frequency of Flooding or Ponding: N/A				
(8)	Present Utilization	10	% of	ACHY	(Key Species)		Duration of Flooding or Ponding: N/A				
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

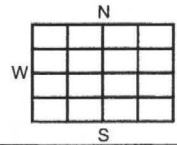
NV-ECS-1  
4/88 (Rev)

U.S. Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name \_\_\_\_\_ 59A  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservatoinist M.MAIN;J.NORMAN;S.KOZUSKO Date: June 6, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass-Like Plants		SIHY		T	T		100-76	0	100-76	Excellent (PNC)	
		ACHY		T	T		75-51	1-2	75-51	Good (Late Seral)	
							50-26	3-4	50-26	Fair (Mid Seral)	
							25-0	>4	25-0	Poor (Early Seral)	
							Final Condition Rating MID-SERAL				
% Weight							Trend Indicators	Plant Vigor Decreasers	-2	Apparent Trend (Circle One)	
% Cover						Age Class Distribution Decreasers		-2	Improving		
				0.0	0.0	Increase/Invaders		-2	Declining		
						Soil Erosion		1	Not Apparent		
							<b>Total</b>	.5			
							Site History	Use History: HEAVY			
						Kind of Animal: HORSES					
						Season of Use: YEARLONG					
						Wildlife Species: ANTELOPE;RABBITS					
						Burning History: N/A					
						Logging History: N/A					
						Cropping History: N/A					
							Physiography	Elevation (m)	Slope	Azimuth (°)	
						1599		0-1	flat		
						Major or Component Landform					
						Slope Component (Circle one)		Crest	Summit	Shoulder	
								Backslope	Footslope		
						Kind of Slope (Circle one)		Straight	Concave	Convex	
						Microrelief:		N/A			
						Depth of Watertable:		N/A			
						Drainage Class:	N/A				
							Frequency of Flooding or Ponding:	N/A			
							Duration of Flooding or Ponding:	N/A			
(8)	Present Utilization	10	% of	ACHY	(Key Species)						
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g., critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

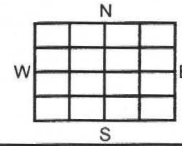
NV-ECS-1  
4/88 (Rev)

U.S. Department of Agriculture  
Soil Conservation Service

**Range Inventory Worksheet**

Site Name 59B  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservationist S.PETERSEN;V.WINKEL;J.GELLER Date: June 4, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Grasses & Grass-Like Plants							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
							100-76	0	100-76	Excellent (PNC)	
							75-51	1-2	75-51	Good (Late Seral)	
							50-26	3-4	50-26	Fair (Mid Seral)	
							25-0	>4	25-0	Poor (Early Seral)	
Final Condition Rating							EARLY-SERAL				
% Weight							Trend Indicators	Plant Vigor Decreasers	-2	Apparent Trend (Circle One)	
								Age Class Distribution Decreasers	-2		
								Increase/Invaders	-2		
								Soil Erosion	0		
								<b>Total</b>	<b>-6</b>		
							Declining				
Forbs		HAGL			96.0		Site History	Use History:	N/A	Not Apparent	
								Kind of Animal:	Horses		
								Season of Use:	Year Long		
								Wildlife Species:	Antelope, Rabbits		
								Burning History:	N/A		
Trees & Shrubs		KRLA ATCO			1.0 3.0	1.0 3.0	Physiography	Elevation (m)	Slope	Azimuth (°)	
								1597	0-1	flat	
								Major or Component Landform			
								Slope Component (Circle one)	Crest	Summit	Shoulder
									Backslope	Footslope	
							Kind of Slope (Circle one)    Straight    Concave    Convex				
							Microrelief:    N/A				
							Depth of Watertable:    N/A				
							Drainage Class:    N/A				
							Frequency of Flooding or Ponding:    N/A				
							Duration of Flooding or Ponding:    N/A				
(8) Present Utilization							% of (Key Species)				
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											
Totals				250	100.0	4.0					

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

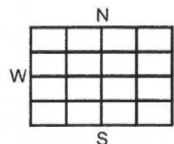
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name 87A  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservatoinist M.HESSING;S.KOZUSKO;K.BLOMQUIST Date: June 8, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)							
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating			
Grasses & Grass Like Plants		HIJA		35.1	10.9	8.0	100-76	0	100-76	Excellent (PNC)				
		ACHY		8.2	2.5	2.5	75-51	1-2	75-51	Good (Late Seral)				
							50-26	3-4	50-26	Fair (Mid Seral)				
							25-0	>4	25-0	Poor (Early Seral)				
							Final Condition Rating MID-SERAL							
% Weight							Trend Indicators	Plant Vigor Decreasers	1	Apparent Trend (Circle One)  Improving  Declining  Not Apparent				
13.4						Age Class Distribution Decreasers		1						
% Cover						Increase/Invaders		-1						
				43.3	13.4	10.5		Soil Erosion	2					
Forbs		ASLE	T				Site History	Use History:	N/A	Kind of Animal: Horses Season of Use: Year Long Wildlife Species: Antelope, Rabbits Burning History: N/A Logging History: N/A Cropping History: N/A				
		CHST		33.9	10.5	1.0		Elevation (m)	1585		Slope	2	Azimuth (°)	273
		UNK FORB 1		2.77	0.9	1.0		Major or Component Landform						
		SAIB	T					Slope Component (Circle one) Crest Summit Shoulder Backslope Footslope						
		MACA			5.7	1.8		0.5	Kind of Slope (Circle one) Straight Concave Convex					
		EUAL			8.036	2.5		0.5	Microrelief: N/A					
% Weight		UNK FORB 2	T				Depth of Watertable: N/A							
15.7							Drainage Class: N/A							
% Cover							Frequency of Flooding or Ponding: N/A							
				50.406	15.7	3.0	Duration of Flooding or Ponding: N/A							
Trees & Shrubs		SAVEB		225.8	70.1	35.0	Physiography							
		ATCO		2.57	0.8	0.8								
		CHVI	T											
% Weight														
70.9														
% Cover														
				228.4	70.9	35.8								
Totals				322.1	100.0	49.3								
(8)	Present Utilization		10	% of	ACHY	(Key Species)								
Notes: N/A														
Treatment Needs: N/A														
Special Considerations (e.g, critical habitat, riparian zone, etc.): N/A														
Associated Sites: N/A														



# Range Condition Survey Nevada Wild Horse Range, Nye County, Nevada Final Report

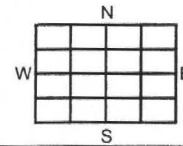
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U S Department of Agriculture  
Soil Conservation Service

## Range Inventory Worksheet

Site Name \_\_\_\_\_ 87B  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist M.MAIN;J.NORMAN;S.KOZUSKO Date: June 6, 1999

MLRA \_\_\_\_\_ 29 Write-up No. \_\_\_\_\_ N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)							
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating			
Grasses & Grass Like Plants		SIHY			3.0	3.0	100-76	0	100-76	Excellent (PNC)				
		ORHY			5.0	5.0	75-51	1-2	75-51	Good (Late Seral)				
		HIJA			12.0	8.0	50-26	3-4	50-26	Fair (Mid Seral)				
		BRTE					25-0	>4	25-0	Poor (Early Seral)				
		SCAR												
Final Condition Rating							LATE-SERAL							
Trend Indicators							Plant Vigor Decreasers		2	Apparent Trend (Circle One)  Improving  Declining  Not Apparent				
							Age Class Distribution Decreasers		2					
							Incraser/Invaders		1					
							Soil Erosion		3					
							<b>Total</b>		8					
Site History							Use History: N/A							
							Kind of Animal: Horses							
							Season of Use: Year Long							
							Wildlife Species: Antelope, Rabbits							
							Burning History: N/A							
Physiography							Elevation (m)		Slope	Azimuth (°)				
							1792		3-5	90				
							Major or Component Landform							
							Slope Component (Circle one)		Crest	Summit	Shoulder			
									Backslope	Footslope				
Trees & Shrubs							Kind of Slope (Circle one)				Straight	Concave	Convex	
							Microrelief:				N/A			
							Depth of Watertable:				N/A			
							Drainage Class:				N/A			
							Frequency of Flooding or Ponding:				N/A			
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">(8) Present Utilization</td> <td style="width: 20%;">10 % of</td> <td style="width: 20%;">ACHY</td> <td style="width: 30%;">(Key Species)</td> </tr> <tr> <td colspan="4">Duration of Flooding or Ponding: N/A</td> </tr> </table>							(8) Present Utilization	10 % of	ACHY	(Key Species)	Duration of Flooding or Ponding: N/A			
(8) Present Utilization	10 % of	ACHY	(Key Species)											
Duration of Flooding or Ponding: N/A														
Notes: N/A														
Treatment Needs: N/A														
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A														
Associated Sites: N/A														

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

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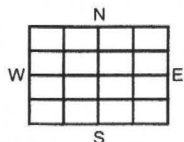
U.S. Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name 90A  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A

MLRA 29 Write-up No. N/A

Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_



Location in section

Conservationist M.MAIN;J.NORMAN;V.WINKEL;BLOMQUIST Date: June 3, 1999

(1)	(2)	(3)	(4)	(5)	(6)	(7)	Evaluate each indicator in relation to climax for the site (circle those that apply)																										
Plant Group % Comp.	Phenology	Symbol or Common Plant Name	% Cover	Weight (lb/ac)	% Present by Weight	% Climax by Weight	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating																						
Grasses & Grass-Like Plants		SIHY		7.69	1.8	1.8		100-76	0	100-76	Excellent (PNC)																						
		HIJA		69.18	16.5	5.0		75-51	1-2	75-51	Good (Late Seral)																						
		BRTE		12.74	3.0			50-26	3-4	50-26	Fair (Mid Seral)																						
							25-0	>4	25-0	Poor (Early Seral)																							
							Final Condition Rating <b>EARLY-SERAL</b>																										
							Trend Indicators	Plant Vigor Decreasers		-1	Apparent Trend (Circle One)																						
<table style="width: 100%;"> <tr> <td>% Weight</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>21.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>% Cover</td> <td></td> <td></td> <td></td> <td>89.61</td> <td>21.4</td> <td>6.8</td> </tr> </table>								% Weight								21.4							% Cover				89.61	21.4	6.8	Age Class Distribution Decreasers		-1	Improving
% Weight																																	
21.4																																	
% Cover				89.61	21.4	6.8																											
							Invasor/Invaders		-2	Declining																							
							Soil Erosion		2	Not Apparent																							
							<b>Total</b>		-2																								
							Site History	Use History: <b>MODERATELY HEAVY</b>																									
								Kind of Animal: <b>HORSES</b>																									
								Season of Use: <b>YEARLONG</b>																									
								Wildlife Species: <b>ANTELOPE, RABBITS</b>																									
								Burning History: <b>N/A</b>																									
							Logging History: <b>N/A</b>																										
							Cropping History: <b>N/A</b>																										
							Physiography	Elevation (m)		Slope	Azimuth (°)																						
								1824		1-2	220																						
								Major or Component Landform																									
								Slope Component (Circle one)		Crest	Summit	Shoulder																					
										Backslope	Footslope																						
								Kind of Slope (Circle one)		Straight	Concave	Convex																					
								Microrelief:		N/A																							
								Depth of Watertable:		N/A																							
							Drainage Class:		N/A																								
							Frequency of Flooding or Ponding:		N/A																								
							Duration of Flooding or Ponding:		N/A																								
							<table style="width: 100%;"> <tr> <td>(8)</td> <td>Present Utilization</td> <td>% of</td> <td></td> <td></td> <td></td> <td></td> <td>(Key Species)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					(8)	Present Utilization	% of					(Key Species)														
(8)	Present Utilization	% of					(Key Species)																										
Notes: <p style="text-align: center;">N/A</p>																																	
Treatment Needs: <p style="text-align: center;">N/A</p>																																	
Special Considerations (e.g., critical habitat, riparian zone, etc.): <p style="text-align: center;">N/A</p>																																	
Associated Sites: <p style="text-align: center;">N/A</p>																																	

**Range Condition Survey**  
**Nevada Wild Horse Range, Nye County, Nevada**  
**Final Report**

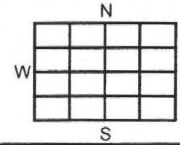
NV-ECS-1  
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U.S Department of Agriculture  
 Soil Conservation Service

**Range Inventory Worksheet**

Site Name 90B  
 Ranch or Soil-232 No. N/A  
 Photo No. N/A  
 Soil Taxonomic Unit N/A  
 Field Office N/A  
 Location: Sec      T      R       
 Long:      Lat:       
 Conservationist M.HESSING;S.KOZUSKO;K.BLOMQUIST Date: June 3, 1999

MLRA 29 Write-up No. N/A



Location in section

(1)	(2)	(3)	(4)	(5)	(6)	(7)	Evaluate each indicator in relation to climax for the site (circle those that apply)				
Plant Group % Comp.	Phenology	Symbol or Common Plant Name	% Cover	Weight (lb/ac)	% Present by Weight	% Climax by Weight	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating
Grasses & Grass-Like Plants		ACHY		67.2	10.6	10.5			100-76	0	100-76
		SIHY		68.6	10.8	5.0		75-51	1-2	75-51	Good (Late Seral)
		BRTE		33.6	5.3			50-26	3-4	50-26	Fair (Mid Seral)
		HIJA		72.9	11.4	5.0		25-0	>4	25-0	Poor (Early Seral)
		ERPU		29.3	4.6						
		SPCR		6.63	1.0	1.0					
% Weight							Final Condition Rating		Late-Seral		
43.7				278.25	43.7	21.5	Trend Indicators	Plant Vigor Decreasers		1	Apparent Trend (Circle One)
% Cover						Age Class Distribution Decreasers		0	Improving		
						Increaser/Invaders		-1	Declining		
						Soil Erosion		1	Not Apparent		
						<b>Total</b>		1			
							Site History	Use History:		N/A	
								Kind of Animal:		Horses	
								Season of Use:		Year Long	
								Wildlife Species:		Antelope, Rabbits	
								Burning History:		N/A	
							Logging History:		N/A		
							Cropping History:		N/A		
				103.4	16.2	5.0	Physiography	Elevation (m)		1815	Major or Component Landform
						Slope		3			
						Azimuth (°)		131			
						Slope Component (Circle one)		Crest Backslope	Summit Shoulder		
						Kind of Slope (Circle one)		Straight	Concave Convex		
						Microrelief:		N/A			
						Depth of Watertable:		N/A			
						Drainage Class:		N/A			
				255.26	40.1	35.0	Frequency of Flooding or Ponding:		N/A		
							Duration of Flooding or Ponding:		N/A		
(8)	Present Utilization		% of	(Key Species)							
Notes: N/A											
Treatment Needs: N/A											
Special Considerations (e.g, critical habitat, riparian zone, etc.): N/A											
Associated Sites: N/A											

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

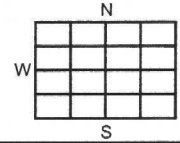
NV-ECS-1  
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U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name \_\_\_\_\_ 90C  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservatorist V.WINKEL;S.PETERSEN;J.GELLER Date: June 8, 1999

MLRA 29 Write-up No. N/A



Location in section

(1)	(2)	(3)	(4)	(5)	(6)	(7)	Evaluate each indicator in relation to climax for the site (circle those that apply)					
Plant Group % Comp.	Phenology	Symbol or Common Plant Name	% Cover	Weight (lb/ac)	% Present by Weight	% Climax by Weight	Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating	
Grasses & Grass Like Plants		HIJA		315.5	31.3	5.0			100-76	0	100-76	Excellent (PNC)
		ACHY		90.3	9.0	9.0		75-51	1-2	75-51	Good (Late Seral)	
		SIHY		2.3	0.2	0.2		50-26	3-4	50-26	Fair (Mid Seral)	
		BRTE		15.4	1.5			25-0	>4	25-0	Poor (Early Seral)	
								Final Condition Rating		MID-SERIAL		
	% Weight			423.6	42.0	14.2	Trend Indicators	Plant Vigor Decreasers		1	Apparent Trend (Circle One)	
	% Cover					Age Class Distribution Decreasers		0	Improving			
						Increaser/Invaders		1	Declining			
						Soil Erosion		2	Not Apparent			
							Total		4			
							Site History	Use History: MODERATELY HEAVY				
						Kind of Animal: HORSES						
						Season of Use: YEARLONG						
						Wildlife Species: ANTELOPE,RABBITS						
						Burning History: N/A						
							Logging History: N/A					
							Cropping History: N/A					
							Physiography	Elevation (m)		Slope	Azimuth (°)	
						1713		3	271			
						Major or Component Landform						
						Slope Component (Circle one)		Crest	Summit	Shoulder		
								Backslope	Footslope			
						Kind of Slope (Circle one)		Straight	Concave	Convex		
						Microrelief:		N/A				
						Depth of Watertable:		N/A				
						Drainage Class:		N/A				
						Frequency of Flooding or Ponding:		N/A				
							(8) Present Utilization		% of	(Key Species)	Duration of Flooding or Ponding:	N/A
Notes: N/A												
Treatment Needs: N/A												
Special Considerations (e.g. critical habitat, riparian zone, etc.): N/A												
Associated Sites: N/A												

# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

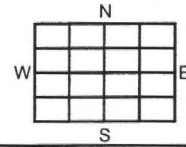
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U.S. Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name \_\_\_\_\_ 90D  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservationist M.MAIN;J.NORMAN;S.KOZUSKO Date: June 6, 1999

MLRA 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)						
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %	Condition rating		
Grasses & Grass Like Plants		HIJA		219.1	13.6	5.0	100-76	0	100-76	Excellent (PNC)			
		ACHY		2.363	0.1	0.1	75-51	1-2	75-51	Good (Late Seral)			
							50-26	3-4	50-26	Fair (Mid Seral)			
							25-0	>4	25-0	Poor (Early Seral)			
							Final Condition Rating		Mid-Seral				
							Trend Indicators	Plant Vigor Decreasers		1	Apparent Trend (Circle One)		
% Weight 13.7								Age Class Distribution Decreasers		1		Improving	
% Cover								Increase/Invaders		1	Declining		
								Soil Erosion		3		Not Apparent	
								Total		6			
							Site History	Use History: MODERAT					
								Kind of Animal: HORSES					
								Season of Use: YEARLONG					
								Wildlife Species: ANTELOPE,RABBITS					
								Burning History: N/A					
							Logging History: N/A						
							Cropping History: N/A						
							Physiography	Elevation (m)		Slope		Azimuth (°)	
								1687		3		120	
								Major or Component Landform					
								Slope Component (Circle one)		Crest	Summit	Shoulder	
										Backslope	Footslope		
								Kind of Slope (Circle one)		Straight	Concave	Convex	
								Microrelief: N/A					
								Depth of Watertable: N/A					
							Drainage Class: N/A						
							Frequency of Flooding or Ponding: N/A						
							Duration of Flooding or Ponding: N/A						
(8) Present Utilization _____ % of _____ (Key Species)													
Notes: _____ N/A													
Treatment Needs: _____ N/A													
Special Considerations (e.g, critical habitat, riparian zone, etc.): _____ N/A													
Associated Sites: _____ N/A													



# Range Condition Survey

## Nevada Wild Horse Range, Nye County, Nevada

### Final Report

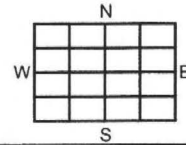
NV-ECS-1  
4/88 (Rev)

U.S Department of Agriculture  
Soil Conservation Service

#### Range Inventory Worksheet

Site Name \_\_\_\_\_ 90E  
 Ranch or Soil-232 No. \_\_\_\_\_ N/A  
 Photo No. \_\_\_\_\_ N/A  
 Soil Taxonomic Unit \_\_\_\_\_ N/A  
 Field Office \_\_\_\_\_ N/A  
 Location: Sec \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Long: \_\_\_\_\_ Lat: \_\_\_\_\_  
 Conservatorist M.MAIN;J.NORMAN;S.KOZUSKO Date: June 4, 1999

MLRA \_\_\_\_\_ 29 Write-up No. N/A



Location in section

(1) Plant Group % Comp.	(2) Phenology	(3) Symbol or Common Plant Name	(4) % Cover	(5) Weight (lb/ac)	(6) % Present by Weight	(7) % Climax by Weight	Evaluate each indicator in relation to climax for the site (circle those that apply)			
							Conditions Class Indicators	% Climax Vegetation	Species Diversity	Production %
Grasses & Grass Like Plants		ACHY			1.0	1.0	100-76	0	100-76	Excellent (PNC)
		SIHY			T	T	75-51	1-2	75-51	Good (Late Seral)
		HIJA			60.0	5.0	50-26	3-4	50-26	Fair (Mid Seral)
		BRTE				T	25-0	>4	25-0	Poor (Early Seral)
		ARPU				T	Final Condition Rating Mid-Seral			
		SPCR					Trend Indicators			
% Weight	61.0						Plant Vigor Decreasers	0	Apparent Trend (Circle One)	
% Cover				61.0	6.0		Age Class Distribution Decreasers	0	Improving	
Forbs		SPAM			2.0	2.0	Increase/Invaders	-1	Declining	
		MACA			1.0	1.0	Soil Erosion	2	Not Apparent	
		ASLE			2.0	2.0	<b>Total</b>	1		
		CHST			8.0	2.0	Site History			
		CRYPTANTHA				T	Use History: MODERATELY-HEAVY			
% Weight	14.0						Kind of Animal: HORSES			
% Cover							Season of Use: YEARLONG			
Trees & Shrubs		ATCO			10.0	10.0	Wildlife Species: ANTELOPE, RABBITS			
		ARSP			15.0	5.0	Burning History: N/A			
		KRLA				T	Logging History: N/A			
		EPNE				T	Cropping History: N/A			
	% Weight	25.0					Physiography			
% Cover						Elevation (m): 1607				
						Slope: 3-4				
						Azimuth (°): 99				
						Major or Component Landform				
						Slope Component (Circle one): Crest Backslope Summit Shoulder Footslope				
						Kind of Slope (Circle one): Straight Concave Convex				
						Microrelief: N/A				
						Depth of Watertable: N/A				
						Drainage Class: N/A				
					25.0	15.0	Frequency of Flooding or Ponding: N/A			
(8)	Present Utilization		% of	(Key Species)		Duration of Flooding or Ponding:		N/A		
Notes: N/A										
Treatment Needs: N/A										
Special Considerations (e.g, critical habitat, riparian zone, etc.): N/A										
Associated Sites: N/A										

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

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**APPENDIX E  
SAMPLE LOCATION PHOTOGRAPHS**

**Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report**

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Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report

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E. SAMPLE LOCATION PHOTOGRAPHS

Sample Location 06A



Sample Location 06B





Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report

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Sample Location 06C

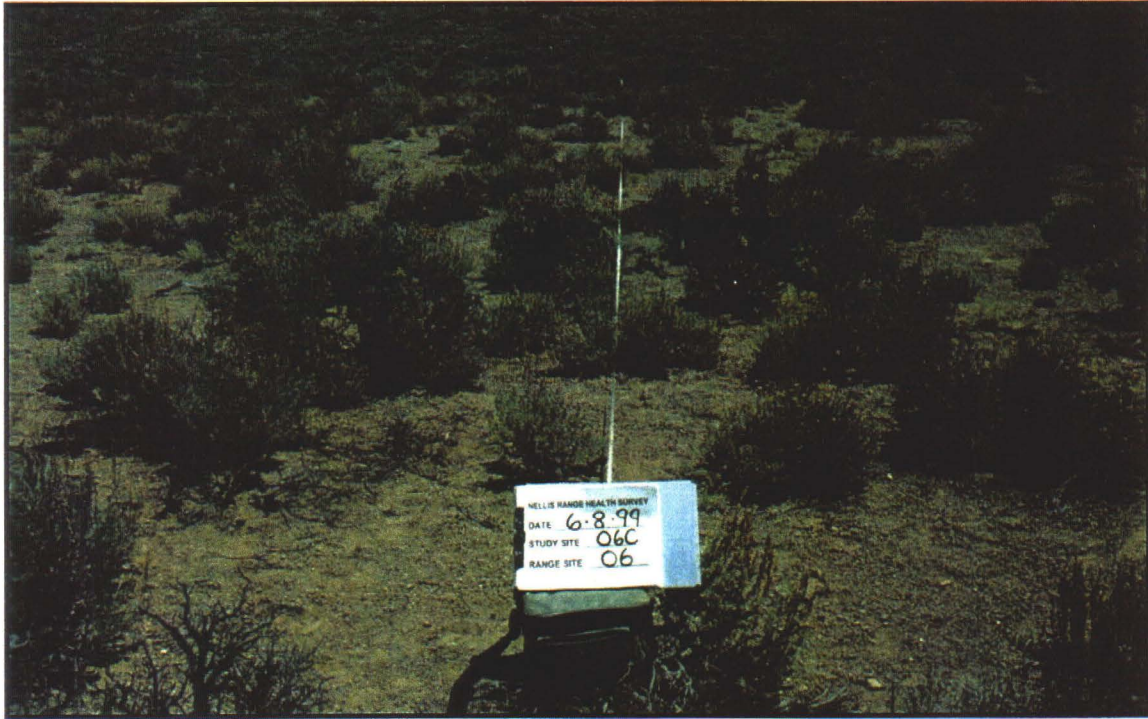


Photo not available for Sample Location 06D



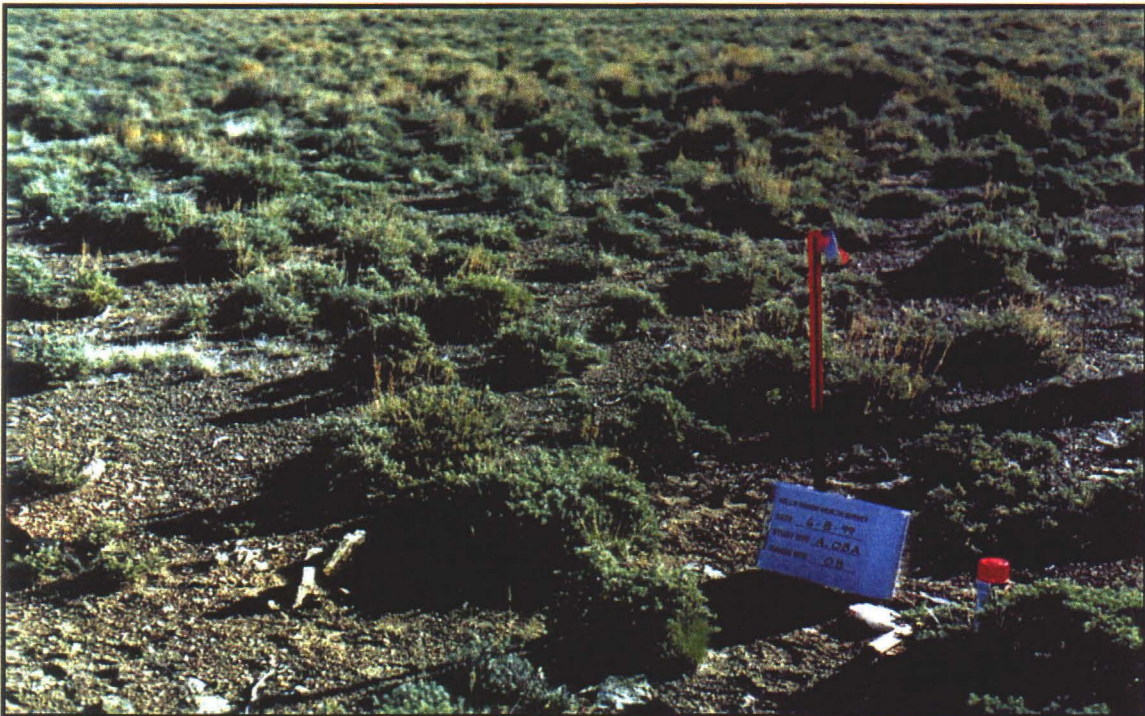
Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report

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Sample Location 06E



Sample Location 08A





Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report

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Sample Location 08B



Sample Location 08C

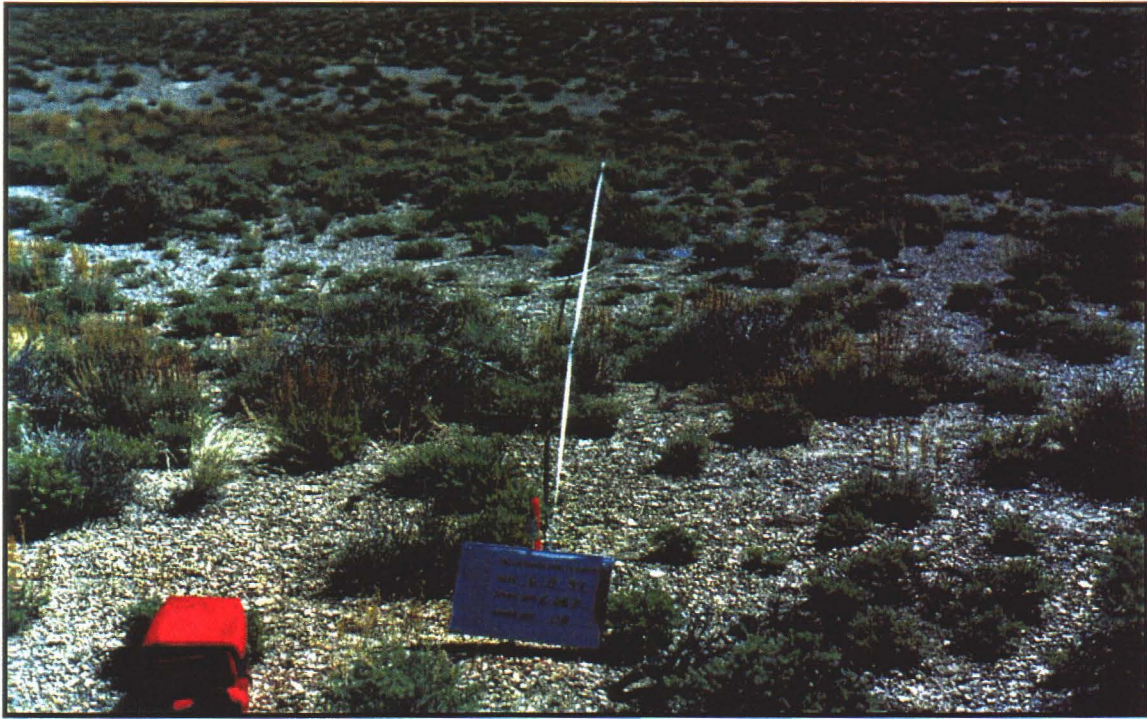




Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report

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Sample Location 08D



Sample Location 12B



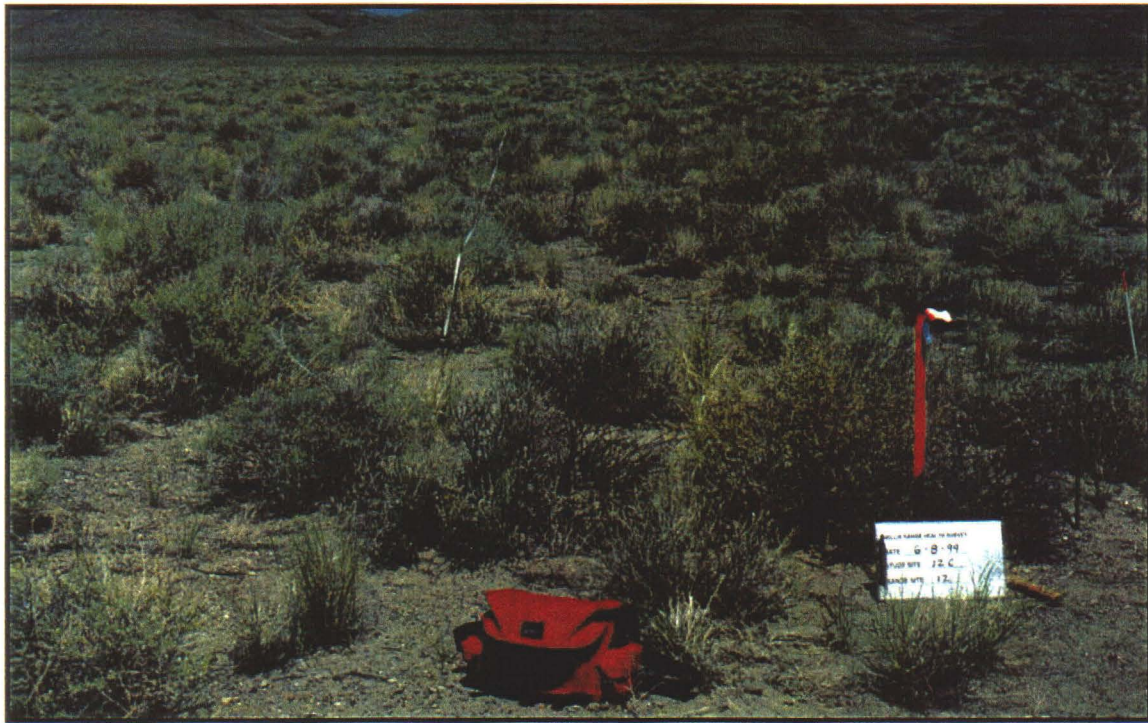
NELLS RANGE HEALTH SURVEY
DATE 6.7.99
STUDY SITE 12B
RANGE SITE 12



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Nevada Wild Horse Range, Nye County, Nevada  
Final Report

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Sample Location 12C



Sample Location 14A





Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report

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Sample Location 16A



Sample Location 16B





Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report

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Sample Location 16C



Sample Location 17A





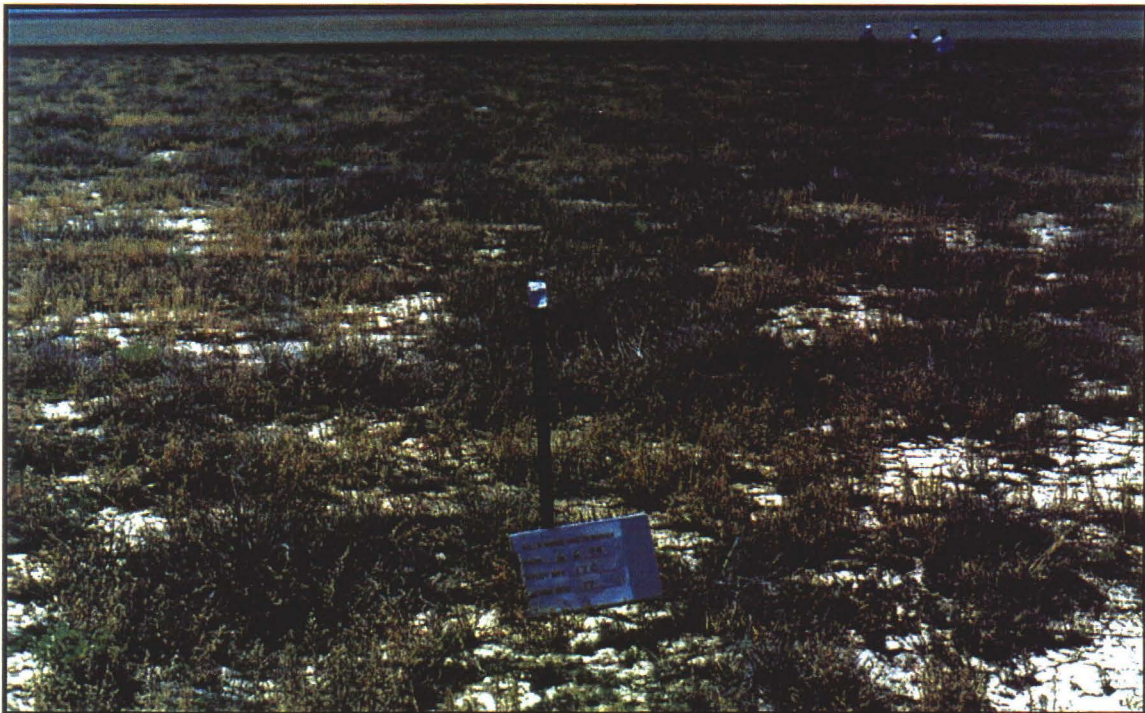
Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
Final Report

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Sample Location 17B



Sample Location 17C

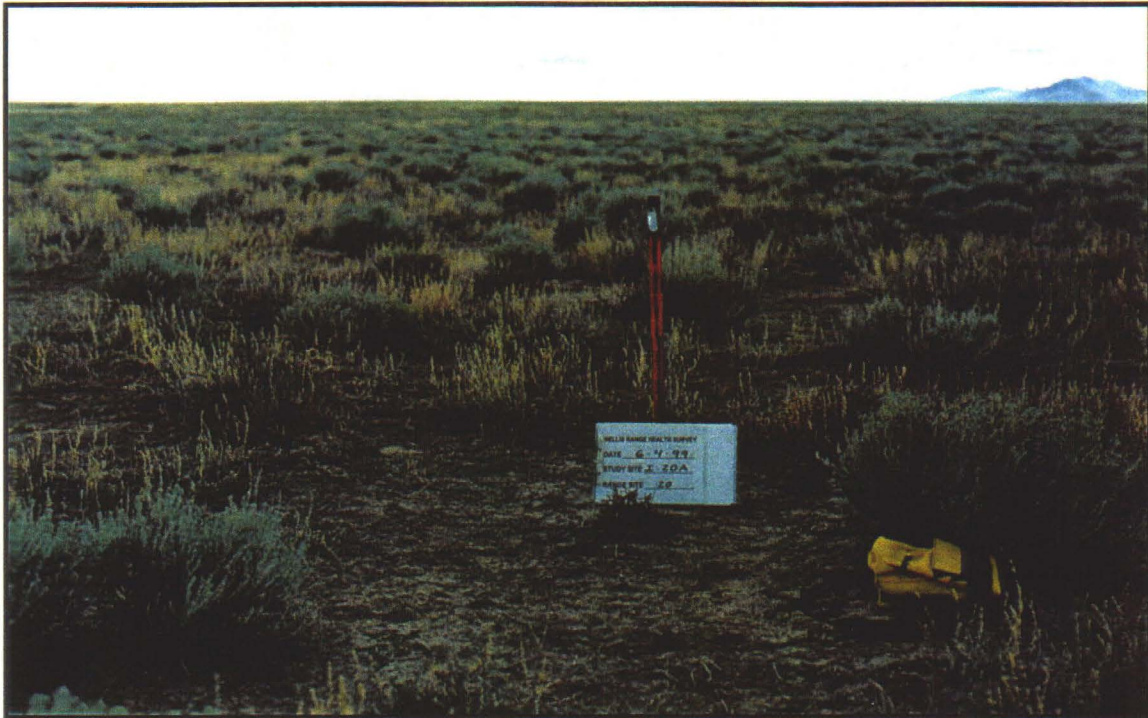




Range Condition Survey  
Nevada Wild Horse Range, Nye County, Nevada  
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Sample Location 20A



Sample Location 20B

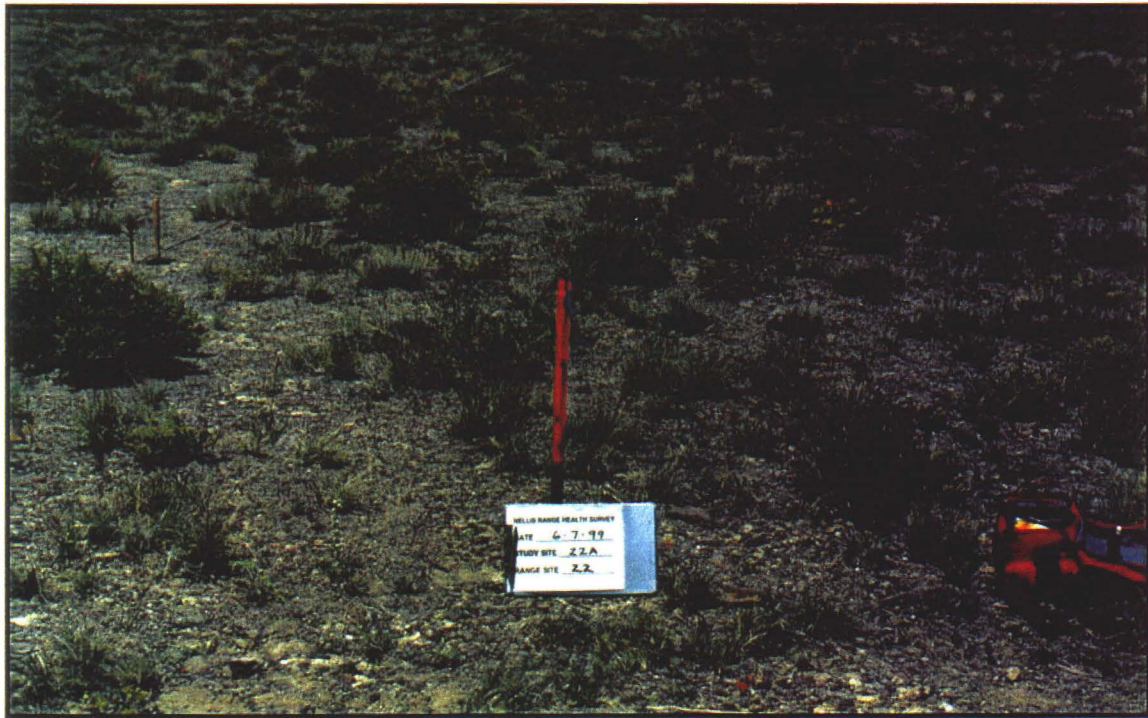




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Sample Location 22A



Sample Location 42B





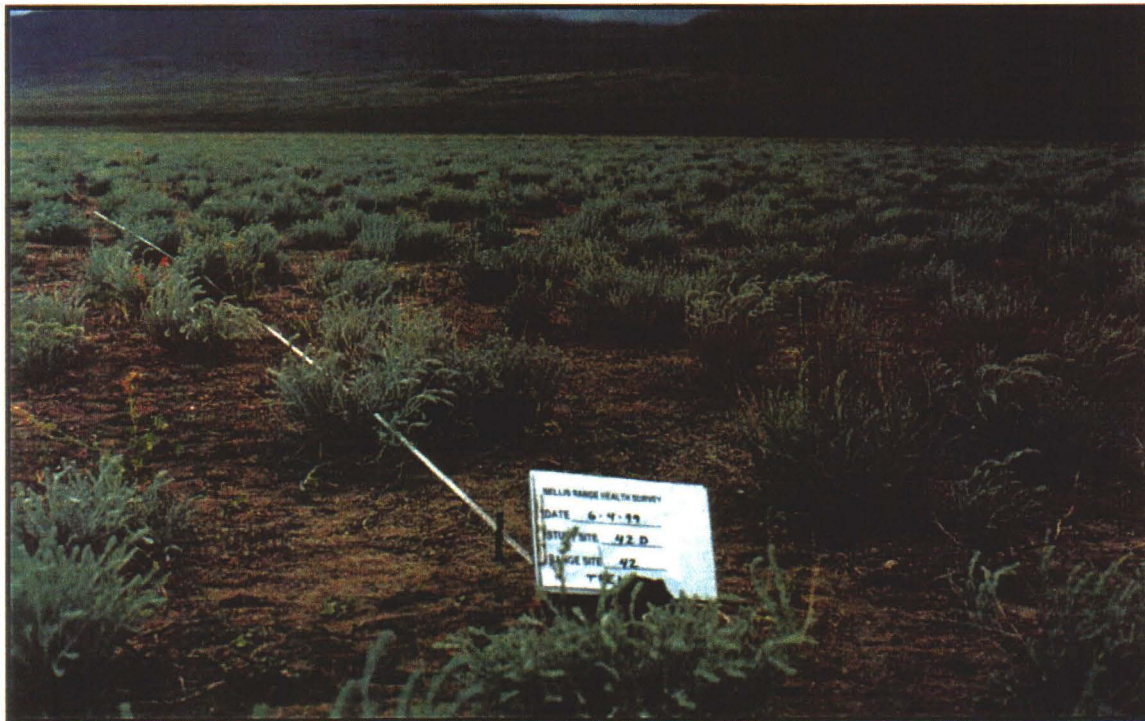
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Sample Location 42C



Sample Location 42D



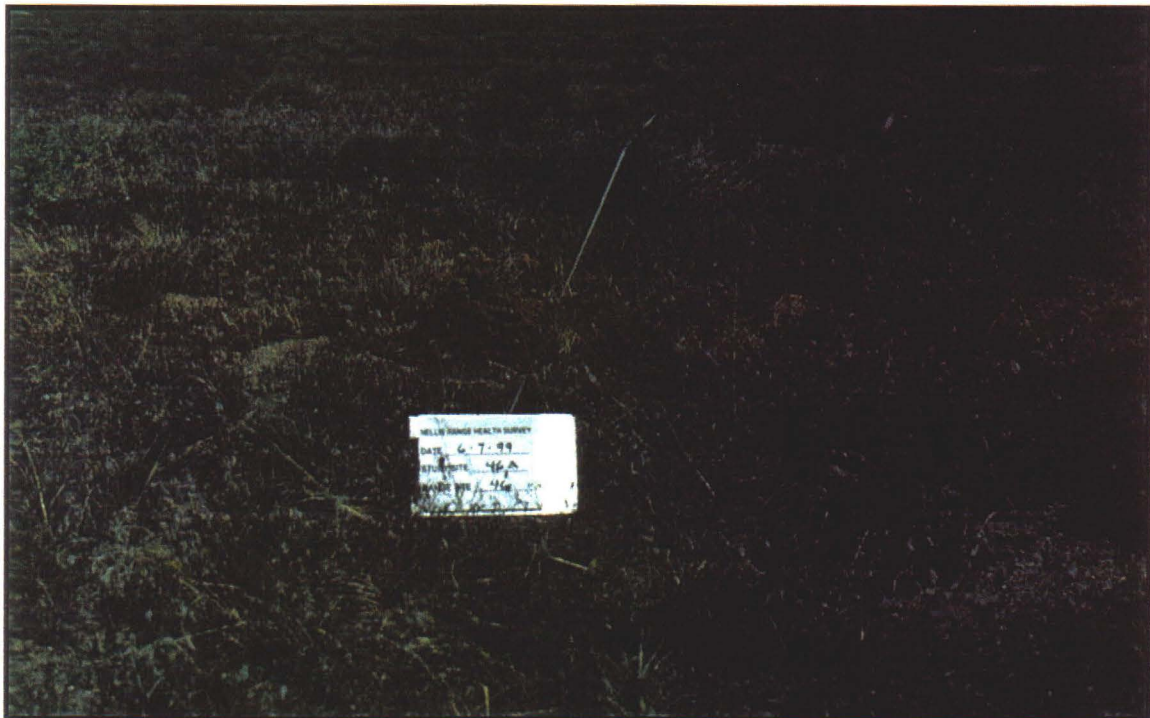


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Photo not available for Sample Location 42E

Sample Location 46A



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Sample Location 46B



Sample Location 46D





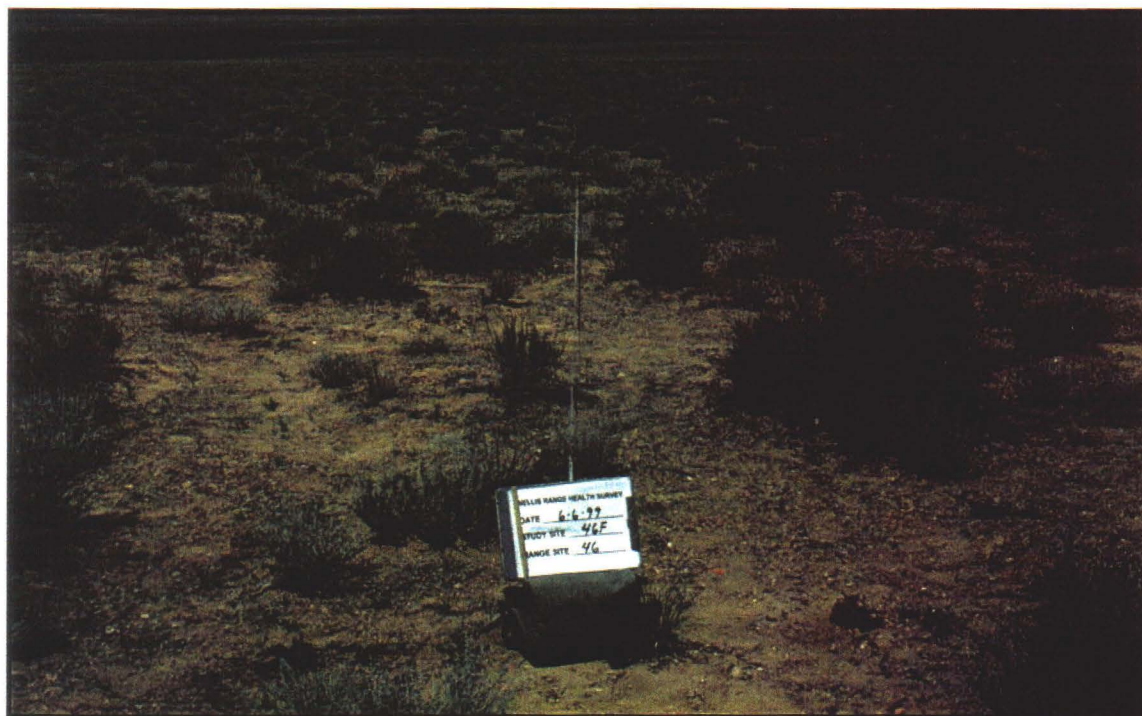
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Sample Location 46E



Sample Location 46F

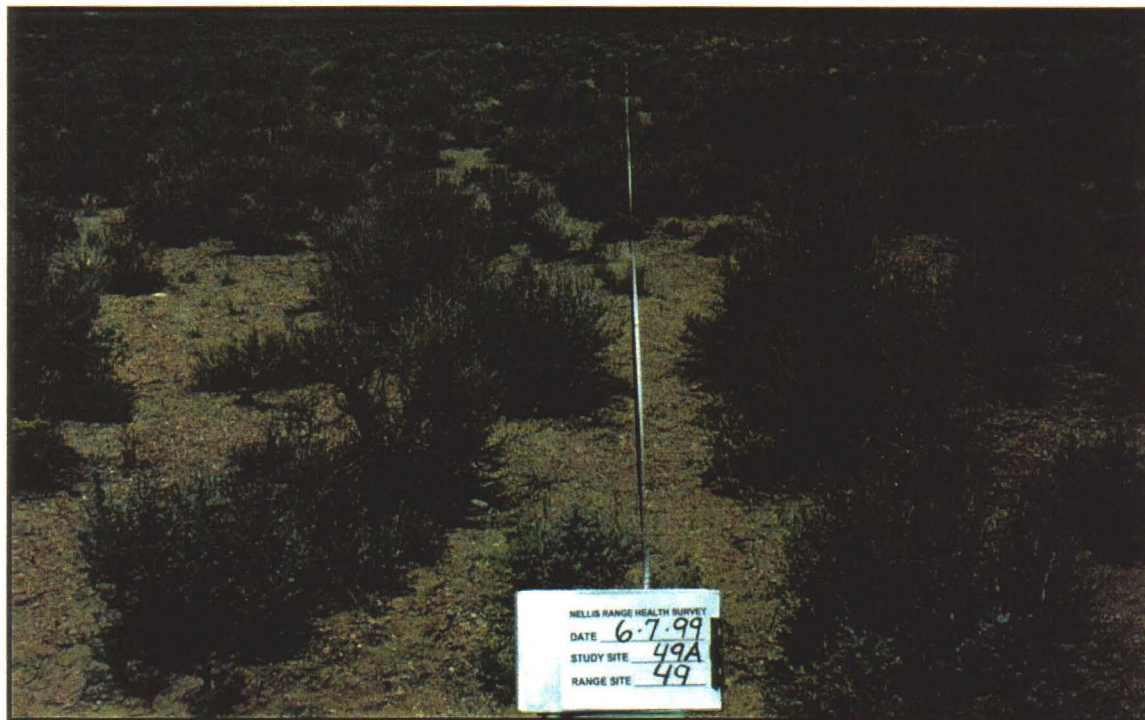




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Sample Location 49A



Sample Location 59A





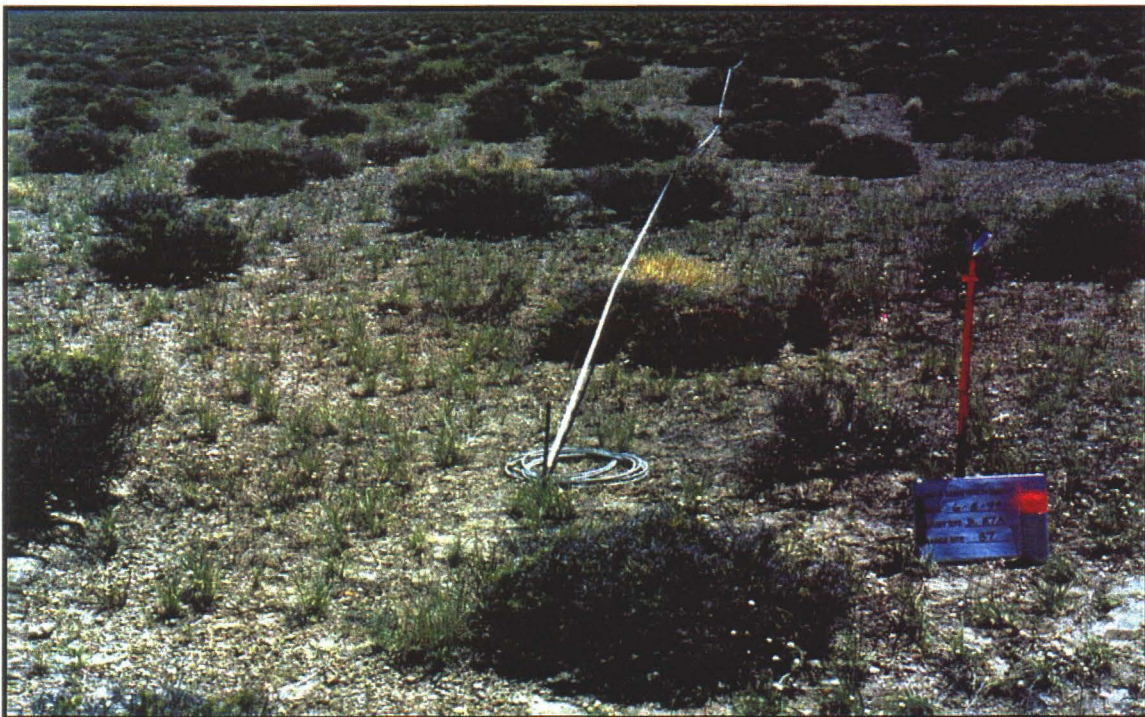
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Sample Location 59B



Sample Location 87A





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Sample Location 87B



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Sample Location 90A

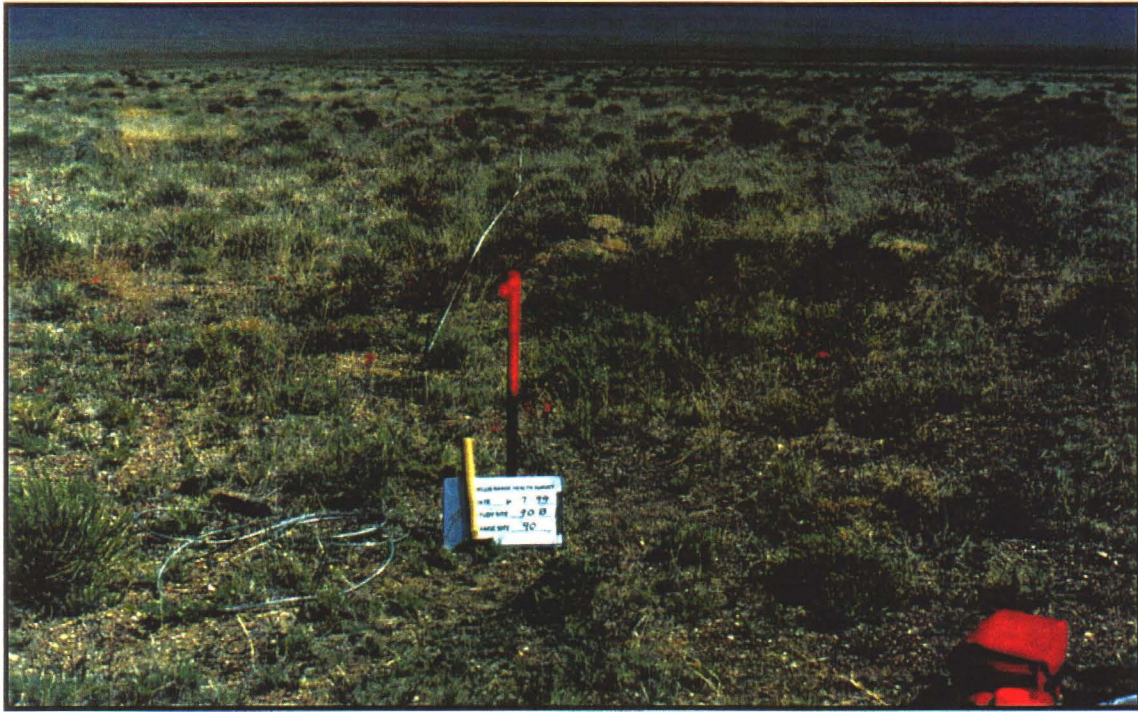




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Sample Location 90B



Sample Location 90C

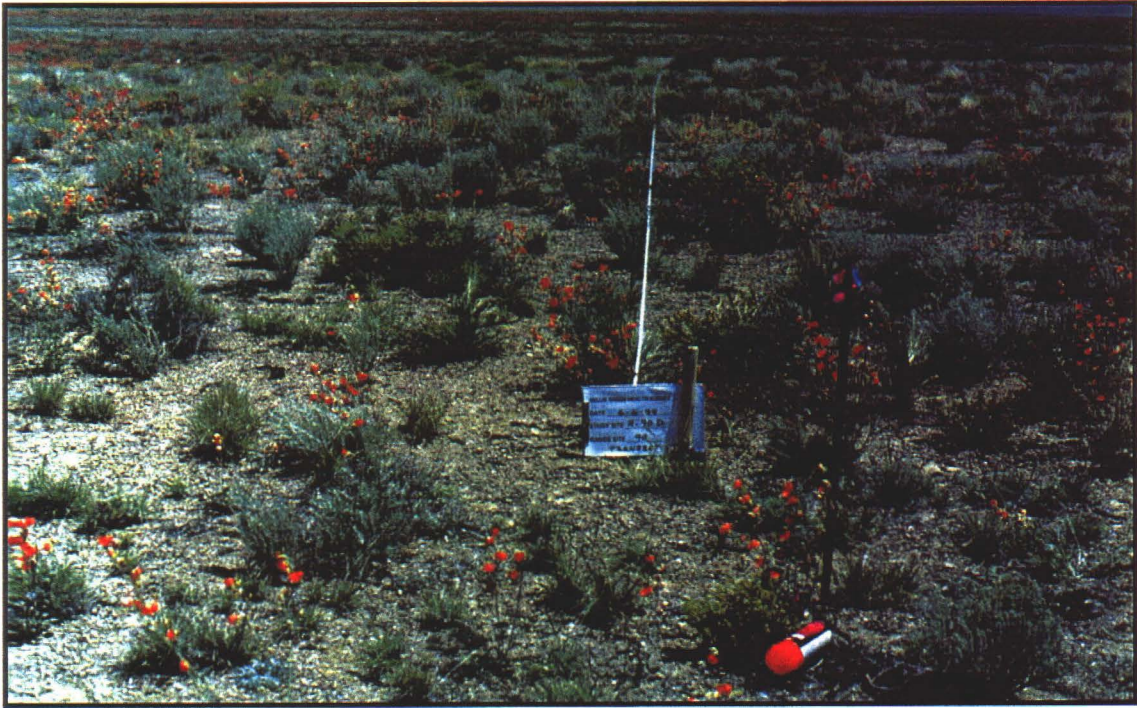




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Sample Location 90D



Sample Location 90E



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**APPENDIX F**

**PLANT SPECIES DOCUMENTED DURING RANGE CONDITION  
SAMPLING ON THE NEVADA WILD HORSE RANGE**

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**Table F-1. Plant Species Documented during Range Condition Sampling  
on the Nevada Wild Horse Range**

<i>Spp Code</i>	<i>Scientific name</i>	<i>Common name</i>
<i>Grasses</i>		
ACHY	Achnatherum hymenoides	Indian ricegrass
BRTE	Bromus tectorum	cheatgrass
ERPU	Erioneuron pulchellum	low woolleygrass
HIJA	Hilaria jamesii [Pleuraphis jamesii]	
SIHY	Sitanion hystrix [Elymus elymoides var elymoides]	wildrye
PLANTAGO	Plantago spp.	Plantain
SPCR	Sporobolus cryptandrus	sand dropseed
STCO	Stipa comata	needleandthread
<i>Forbs</i>		
ARABIS	Arabis spp.	rockcress
ASLE	Astragalus lentiginosus	speckledpod milkvetch
ASPU	Astragalus purshii	woolypod milkvetch
CHST	Chaenactis stevoides	Steve's dustymaiden
CRYPTANTHA	Cryptantha spp	cryptantha
CRVI	Cryptantha virginensis	Virgin River catseye
CYGL	Cymopterus globosus	globe springparsely
DEPI	Descurainia pinnata	western tansymustard
ERIGERON	Erigeron spp	fleabane
ERMA	Eriogonum maculatum	spotted buchwheat
ERNI	Eriogonum nidularium	birdsnest buckwheat
EUAL	Euphorbia albomarginata [Chamaesyce albomarginata]	whitemargin sandmat
HACKELIA	Hackelia spp	stickseed
HAGL	Halogeton glomeratus	halogeton
LEPIDIUM	Lepidium spp	pepperweed
MACA	Machaeranthera canescens	hoary aster
MENTZELIA	Mentzelia spp	blazingstar
PHST	Phlox stansburyi	colddesert phlox
SAIB	Salsola iberica	Russian thistle
SEMU	Senecio multilobatus	lobeleaf groundsel
SPAM	Sphaeralcea ambigua	desert globemallow
STPA	Stephanomeria pauciflora	brownplume wirelettuce
UNK FORBS	Unknown forb	forb
<i>Shrubs</i>		
ARNO	Artemisia nova	black sagebrush
ARSP	Artemisia spinescens	bud sagebrush
ARTRW	Atemisia tridentata wyomingensis	Wyoming big sagebrush
ATCA	Atriplex canescens	fourwing saltbush
ATCO	Atriplex confertifolia	Shadscale saltbush
CACTUS	Cactus spp	cactus

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**Table F-1. Plant Species Documented During Range Condition Sampling  
on the Nevada Wild Horse Range (Continued)**

<i>Spp Code</i>	<i>Scientific name</i>	<i>Common name</i>
<i>Shrubs</i> (cont'd.)		
CHVI	<i>Chrysothamnus viscidiflorus</i>	green rabbitbrush
EPNE	<i>Ephedra nevadensis</i>	Nevada jointfir
GRSP	<i>Grayia spinosa</i>	spiny hopsage
GUSA	<i>gutierrezia sarothrae</i>	broom snakeweed
KOAMV	<i>Kochia americana vestita</i>	greenmolly
KRLA	<i>Krascheninnikovia lanata</i>	winterfat
LYAN	<i>Lycium andersonii</i>	Anderson's wolfberry
PSFR	<i>Psorothamnus fremontii</i>	Fremont's dalea
SAVEB	<i>Sarcobatus vermiculatus baileyi</i>	greasewood
TEGL	<i>Tetradymia glabrata</i>	littleleaf horsebush

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**APPENDIX G**

**ACRONYMS**

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**G. ACRONYMS**

AML	Appropriate Management Level
AU	Animal Unit
BLM	Bureau of Land Management
DOI	U.S. Department of the Interior
DRI	Desert Research Institute
ESD	Environmental Sciences Department
°F	Degrees Fahrenheit
GPS	Global Positioning System
MLRA	Major Land Resource Area
NAFR	Nellis Air Force Range
NRCS	Natural Resources Conservation Service
NWHR	Nevada Wild Horse Range
PHPS	Preferred Horse Population Size
PNC	Potential Natural Climax
SAIC	Science Applications International Corporation
SWA	Site Write-up Area
TM	Thematic Mapper
USAF	U.S. Air Force
USDA	U.S. Department of Agriculture
USGS	U.S. Geologic Survey
UTM(s)	Universal Transverse Mercator(s)
WHUA	Wild Horse Use Area

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