



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
CARSON CITY DISTRICT OFFICE
1535 Hot Springs Rd., Ste. 300
Carson City, Nevada 89701

3/23/88
IN REPLY REFER TO:

4120.2
(NV-03580)

MAR 23 1988

3/23/88

Ms. Dawn Lappin
Wild Horse Organized Assistance
P.O. Box 555
Reno, NV 89505

Dear Ms. Lappin:

The Walker Resource Area is currently developing an allotment management plan (AMP) for the Marietta Allotment in accordance with the management actions presented in the Marietta Wild Burro Herd Management Area Plan approved on July 6, 1987. One of these actions required the development of an AMP that would dedicate the majority of the wild burro use area to burro management. Since the two permittees who have grazing preference in the Marietta Allotment also graze in the Huntoon Valley, Candelaria, and McBride Flat Allotments, the proposed AMP will also include the management of those three allotments.

Enclosed for your review is the introductory section of the proposed allotment management plan. Please inform us of any concerns or conflicts that you are aware of pertaining to the four allotments that comprise the planning area. All comments should be sent to this office prior to April 18, 1988.

If you are interested in more specific information about the allotments, the information will be sent to you upon request.

Sincerely yours,

Ronald K. Buckler
for John Matthiessen
Area Manager
Walker Resource Area

Enclosure:
As Stated

U.S. Department of the Interior
Bureau of Land Management
Carson City, Nevada

MARIETTA, HUNTOON VALLEY, CANDELARIA, MCBRIDE FLAT
ALLOTMENT MANAGEMENT PLAN

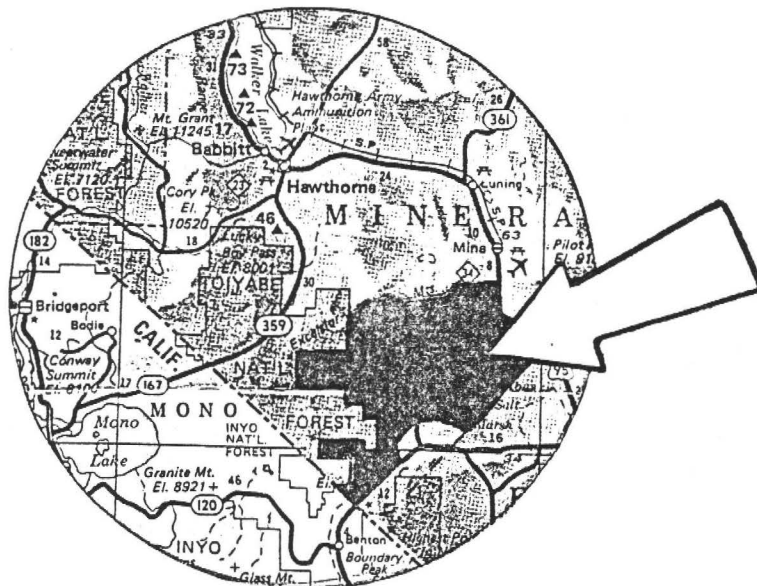


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SECTION I
INTRODUCTION

A. Purpose and Authority

The Marietta Wild Burro HMAP approved by the Carson City District Manager on July 6, 1987, presented certain management actions that could effect livestock grazing in the Marietta Allotment. One of these actions is to propose an allotment management plan (AMP) which will dedicate a majority of the Herd Management Area to burro management. Since the two permittees who have grazing preference in the Marrietta Allotment also graze in the Huntoon Valley, Candelaria, and McBride Flat Allotments, the proposed Marietta AMP also includes the management of those three allotments.

B. General Information

1. Physical Location of the Allotments

The Marietta Allotment is located in Mineral County, Nevada, approximately 20 miles southeast of Hawthorne. One of the most prominent features is Teels Marsh, which is a large playa located in the north central portion of the allotment. The ghost town of Marietta is immediately north of Teels Marsh.

Huntoon Valley Allotment, lying west of Marietta Allotment, derives its name from the valley that traverses its central portion. The Toiyabe National Forest surrounds the allotment on the north, south, and west sides. The Excelsior Mountains surround Huntoon Valley and Teels Marsh.

Candelaria Allotment lies to the west of Marietta Allotment. It derives its name from the ghost town found in the Candelaria Hills (central and south portion). The Excelsior Mountains are found in the north portion.

McBride Flat Allotment lies to the south of Marrietta Allotment, and adjoins Forest Service lands (Toiyabe National Forest to the west and northwest, Inyo National Forest to the southwest). The Nevada-California state line and the Basalt Allotment forms the southern boundary.

2. Acreages and Land Status

Acreages and land status for the planning area is shown below. Map No. 1 shows the location of private parcels. None of the private land shown below is controlled by the grazing permittees.

Allotments	Acreages		
	Public (%)	Private (%)	Total
Marietta	127,876 (99)	1,800 (1)	129,676
Huntoon Valley	15,464 (95)	840 (5)	16,304
Candelaria	100,331 (98)	1,716 (2)	102,047
McBride Flat	25,452 (93)	1,863 (7)	27,315

3. Elevational Variations

Elevation varies from a low point in Teels Marsh of 4,904 feet to a high point in the Excelsior Mountains of 8,805 feet. This entails a change of 3,901 feet. The lowest elevation, highest elevation, and elevation difference are shown below for each allotment.

Allotment	Elevation (feet)		
	High	Low	Difference
Marietta	8,805	4,904	3,901
Huntoon Valley	7,120	5,640	1,480
Candelaria	8,805	5,640	3,165
McBride Flat	8,509	6,038	1,471

4. Topography

Marietta and Huntoon Valley Allotments can be described as internally drained mountain basins. The valley floor in each basin contains a playa, which grades into an alluvial flat and then into the alluvial fans. The Excelsior Mountains which bound these basins are fairly rugged.

Candelaria has two basic areas that form basins: a small playa in the central portion of the allotment, and the area west of Rhodes Salt Marsh in the northeast portion of the allotment. To the north, the Excelsior Mountains bound the salt marsh, while the Candelaria Hills dominate the central and southern portions of the allotment. The Candelaria Hills are fairly rugged mountains.

The McBride Flat Allotment is located within the southern end of the Excelsior Mountains. As previously stated, these mountains are rugged, however, Truman Meadows, McBride Flat, and Sagehen Spring are in basins that have more gentle terrain.

5. Climate

The climate of the planning area falls into three main types: mid-latitude desert, mid-latitude steppe and subhumid continental. The mid-latitude desert occurs on the valley floor and lower fans where the annual precipitation is 3-8 inches. Mid-latitude steppe generally occurs on the upper fans and on mountain slopes where the annual precipitation is 6 - 15 inches. The subhumid continental type occurs in the mountains. A more specific description of the climatic types is shown below.

Climatic Type	Mean Temperature (°F)		Annual Precip.	Snowfall	Dominant Vegetation 1/
	Winter	Summer			
Subhumid Continental	10-30°	50-70°	12-25"	Moderate	PIMO-JUOS
Mid-latitude Steppe	20-40°	65-80°	6-15"	Light to Moderate	ARTEM-PPGG
Mid-latitude Desert	20-40°	65-80°	3-8"	Light	SARCO &/or ATRIP

1/Plant codes are identified in Appendix No. 1.

The majority of precipitation is in winter and is associated with Pacific fronts. In early spring the weather becomes quite variable namely because of low pressure areas over the Great Basin. In late spring and summer, high pressure systems in the southern United States causes drought conditions in Nevada. Occasional showers may occur in summer due to moist airs drifting from tropical oceans. Fall is dominated by fair weather with some storms associated with Pacific fronts and Great Basin lows (especially in late fall).

6. Historical Grazing Use

The Marietta and Huntoon Valley Allotments have historically been grazed by cattle in winter and early spring. Livestock use in Marietta has generally been in the vicinity of developed springs in the southern portion, principally near German, Stone Cabin, and Company Springs, and Little Huntoon Valley. Use in the Huntoon Valley Allotment has generally been concentrated in Huntoon Valley.

The McBride Flat Allotment has historically been a cattle allotment. The majority of livestock use has been in the more level areas of Truman Meadows, McBride Flat and Sagehen Springs.

Since the early 1970's there has been occasional winter cattle grazing in the Candelaria Allotment. For more detailed historical information in the allotments described in this section, refer to grazing case files.

Marietta Allotment and the northwestern portion of the Candelaria Allotment also contain a resident herd of burros. The beginnings of the wild burro population is not certain, although there is a distinct possibility that they could have started from stock released by miners in the old mining district. The first documentation of numbers was in a 1973 census showing 68 head. The highest recorded numbers were 398 head counted in 1983. Two removals have reduced the numbers to 139 (June, 1986 count). These burros probably have occasionally drifted into the Huntoon Valley Allotment.

Two wild horse herd areas have been known to overlap into the planning area. The Garfield Flat herd has grazed in the northern portion of Marietta and Candelaria Allotments. The Montgomery Pass herd has used the McBride Flat Allotment and the southern portions of Marietta, Huntoon Valley, and Candelaria Allotments.

7. Other Multiple Use Values

Mining began in the planning area with the discovery of silver at Candelaria in 1863. The Marietta district was soon discovered in the 1860s. During this time, the communities of Candelaria, Marietta and Belleville began (the later town was established to service Candelaria). Parelleling the development of gold and silver mining, salt production began at Teels Marsh and Rhodes Salt Marsh. Borax was discovered in association with the salt, and borax production continued until the discovery of the Death Valley deposits in 1892. The mining activity began to phase out in the 1890s due to adverse economic conditions.

Other than the large gold and silver operation that has reopened at the old site of Candelaria, mining activity has been relatively light in the twentieth century (considering the flurish of activity in the late 1800s). Exploration continues throughout the planning area.

Hunting and recreation values have been limited in the past due to the fairly remote and rugged nature of much of the planning area.

As evidenced by the Marietta HMAP, great concern has been placed on the wild burro herd in the Marietta and Candelaria Allotments (Marietta is considered a prime spot for viewing burros). To a lesser extent, Candelaria and McBride Flat Allotments may be important as a wild horse viewing area.

B. Existing Information

1. Grazing Preference and Mangement

Marietta Allotment: The adjudication of May 6, 1959, established a preference of 2300 AUMs in the Marietta Allotment. Marietta was eventually divided into the Marietta Allotment (2015 AUMs) and the Huntoon Valley Allotment (285 AUMs). The preference in the Marietta Allotment is currently allocated as follows:

<u>Permittee</u>	<u>Season-of-Use</u>	<u>Public AUMs</u>
Mervin McKay	11/01 to 04/15	1215
Harris Brothers	12/01 to 02/28	800

Licensed use has been significantly lower than preference. This is illustrated in the chart shown below.

<u>Permittee</u>	<u>Licensed Use (AUMs)</u>					<u>Ave.</u>
	1982	1983	1984	1985	1986	
McKay	290	158	186	195	226	211
Harris	300	0	150	162	150	152
TOTAL	590	158	336	357	376	363

The areas that recieve the most use by livestock include the areas near of German, Stone House and Company Springs, and the Little Huntoon Valley. There is no suspended nonuse in this allotment.

Huntoon Valley Allotment: The current active preference in the Huntoon Valley Allotment is 285 AUMs. All preference is attached to the base property currently controlled by Mervin McKay, who grazes cattle in the allotment from 01/01 to 04/15.

McKay grazes on public lands administered by the BLM in the Huntoon Valley and Marietta Allotments during winter and early spring. These two allotments are used in conjunction with the Huntoon C & H Allotment administered by the Bridgeport Ranger District of the Toiyabe National Forest.

The licensed use over the past five years is shown below calculated between the dates of 12/01 and 04/15. Most of this use has been in the Huntoon Valley.

Permittee	Licensed Use (AUMs)					
	1982	1983	1984	1985	1986	Ave.
McKay	329	130	307	310	262	268

Candelaria Allotment: This allotment does not have an adjudicated grazing preference. Occassionally, temporary nonrenewable grazing has occurred to help relieve the competition between livestock and burros in the Marietta Allotment. The licensed use since 1984 is shown below. Most of the livestock grazing has occurred primarily on the flats just east of Silver Dyke Canyon and in the vicinity of the playa in the central portion of the allotment.

Permittee	Licensed Use (AUMs)					
	1982	1983	1984	1985	1986	Ave.
Harris	0	0	849	398	98	349

McBride Flat Allotment: The adjudication of May 6, 1959 established a preference of 488 AUMs in the McBride Flat Allotment. All preference is attached to base property owned by the Harris Brothers, who graze cattle in the allotment from 06/01 to 09/31.

As with the Marietta Allotment, there has been very little licensed use in the McBride Flat Allotment. The licensed use for the past five years is shown below.

Permittee	Licensed Use (AUMs)					
	1982	1983	1984	1985	1986	Ave.
Harris	300	0	150	0	0	225

Permittees' Yearlong Operation: In winter, Mervin McKay trails cattle from his base properties in Smith and Antelope Valleys to the Marietta and Huntoon Valley Allotments. In spring, the cattle are moved back onto the base property, eventually being moved onto Toiyabe National Forest in the vicinity of the Sweetwater Range. The cattle remain in the Sweetwaters throughout the summer and go back onto the base in the fall.

The Harris Brothers' operation is quite variable. Generally, Orin Harris will bring cattle into the Marietta Allotment in late winter. The cattle are moved from the allotment in spring, spending the remainder of the year on his base property, or on BLM and Forest Service administered lands in California.

2. Wildlife Numbers and Use Areas

The existing demand and reasonable numbers for mule deer identified in the Walker RMP are shown below. Map 2 shows seasonal use areas. A small herd of Desert bighorn sheep also exists in the Excelsior Mountains, although no population data is available.

Allotment	Numbers		Season-of-Use Dates(Months)	AUM Demand	
	Reason- able	Exist- ing		Reason- able	Exist- ing
Marietta	532	352	01/15 - 05/15 (4)	532	352
McBride F.	320	126	01/15 - 05/15 (4)	320	126
Candelaria	51	36	Yearlong *	153	107
Marietta	11	8	Yearlong *	33	23

*Resident herd.

3. Wild Horse and Burro Numbers and Use Areas

The Marietta Burro HMAP has established an initial population level of 85 burros. After this number has been reached, monitoring will establish the actual appropriate management levels.

Horses from two different herd areas are found in the planning area. The Montgomery Pass herd is managed by the U.S. Forest Service while the Garfield Flat herd is managed by the BLM. Existing numbers and management objectives are shown below. Herd areas are shown on Map No. 3.

Allotment	Kind of Animal	Herd Area	1983 Existing Numbers	Management Objective Nos (AUMs)
Marietta	Horses	Montgomery Pass	10	10 (120)
	Burros	Marietta	129	Initially: 85 (1020)
Candelaria	Horses	Garfield Flat	15	15 (180)
	Burros	Part of the Marietta Herd		
McBride Flat	Horses	Montgomery Pass	23	23 (276)

4. Vegetation

- a. Vegetation Types: The main vegetation types found in the planning area as described in the Walker RMP includes salt-desert shrub, sagebrush-bunchgrass, and pinyon-juniper woodland. The salt desert shrub communities are characterized by shadscale, Bailey greasewood, and a combination of cool and warm season grasses (eg., Indian ricegrass, needlegrass, and galleta). The sagebrush-bunchgrass communities are generally dominated by various species of sage-sagebrush and a combination of cool and warm season grasses. The woodland communities are characterized by Utah juniper and pinyon pine in pure or mixed stands. Based on Walker Resource Area records, there are eleven riparian areas in the planning area. Acreages of the major vegetation types are shown below.

Allotment	Sage-brush	Barren	Pinyon/Juniper	Salt-brush	Grease-wood	Desert shrub
Candelaria	15,050		5,016	17,056	32,106	31,103
Huntoon V.	2,629		928	4,175	2,320	5,412
Marietta	29,928	3,742	13,717	6,235	12,470	58,610
McBride F.	11,962		12,981	127		382

- b. Utilization: Allotment-wide utilization has been recorded since 1976 in much of the planning area. Heavier utilization readings generally have been found in the areas of livestock concentration discussed in "Historical Grazing Use" (page 3). Most notable of these concentration areas is the Marietta Allotment in the vicinity of Teels Marsh, which has shown severe utilization levels in past studies (principally from wild burros). Another area of severe utilization is on meadows in the McBride Flat Allotment (principally from wild horses).
- c. Trend, Condition and Potential: The apparent trend in most of the planning area is static to slightly upward. Exceptions to this are the severe use areas described in the previous section, which show a static to downward trend.

An order 3 soil survey has been completed throughout the planning area. Ecological sites were identified, however ecological status was not recorded. Appendix No. 2 shows a ranking of ecological sites found on public lands in the various allotments. A ranking of management potential based on soils is shown below.

Allotment	Acres and % Allotment per Potential Category			
	High	Moderate	Low	Barren
Marietta	2304(2%)	21014(17%)	92654(74%)	8635(7%)
Huntoon Val.	0	4828(31%)	10111(65%)	526(4%)
Candelaria	292(1%)	4912(5%)	90276(90%)	4850(5%)
McBride Flat	4418(17%)	4657(18%)	15064(60%)	1312(5%)

- d. Phenology Data of Key Species: No phenological data has been collected for the planning area. Data for the BLM Tonopah Resource Area is shown below. The specific site from which the data was derived is at the same elevation and close to the same latitude as the planning area.

Species 1/	Development Stages 2/					
	Start Growth	Flow- ering	Peak of Flower- ing	Seed Ripe	Seed Disim- inate	Re- growth
ARSP5	3/15	4/15	5/15	5/25	6/10	
EULA5	6/01	3/	3/	3/	11/15	
HIJA	5/10	6/10	6/15	7/01	7/10	9/25
ORHY	4/01	6/01	6/05	6/25	7/10	9/25
SPAM2	3/15	6/01	6/15	7/01	7/15	

1/ Refer to Species List (Appendix No. 1) for identification of plant codes.

2/ These are median dates: actual dates may vary as much as a month due to annual climatic fluctuation.

3/ No data.

- e. Threatened and Endangered Plants: The only sensitive plants of particular concern within the planning area are Oryctes nevadensis and Penstemon arenarius, which have been found near the road going to Marietta, near Belleville, and near Candelaria (ie., in Marietta and Candelaria Allotments). These plants have been recommended for the Federal Threatened List by the U.S. Fish and Wildlife Service. The current threats to the plants are summer grazing and mining.

5. Existing Range Improvements

The only BLM range improvements in the planning area are found in the Huntoon Valley and Candelaria Allotments. These projects are shown below (refer to Map No. 4 for locations). In addition, Harris has hauled water for his livestock in the Marietta and Candelaria Allotments.

Huntoon Valley Allotment:

Project No. and Name	Condition (Year Inspected)	Coop. Agree- ment or R.I Permit	Assignee
(0197)Huntoon Well #3	Failure(1987)	Coop.	McKay
(5093)Huntoon Well #2	Good(1987)	Coop.	McKay
(5094)Huntoon Well #1	Good(1987)	Coop.	McKay
(6318)Little Huntoon Fence	Good(1987)	R.I. Permit	McKay
(6452)Cow Camp Holding Corral	Good(1987)	R.I. Permit	McKay

Candelaria Allotment:

Project No. and Name	Condition (Year Inspected)	Coop. Agree- ment or R.I Permit	Assignee
(5085)Baker Well	Fair(1987)	R.I. Permit	Harris
(6439)Candelaria Storage Tank	Good(1987)	R.I. Permit	Harris

APPENDIX NO. 1
Plant List

<u>Plant Code</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Plant Type</u>
AGSM	<u>Agropyron smithii</u>	western wheatgrass	native perennial grass
ARAR8	<u>Artemisia arbuscula</u>	low sagebrush	native shrub
ARARN	<u>Artemesia arbuscula</u> <u>nova</u>	black sagebrush	native shrub
ARSP5	<u>Artemesia spinescens</u>	bud sagebrush	native shrub
ARTEM	<u>Artemesia</u> sp.	sagebrush	native shrub
ARTR2	<u>Artemesia tridentata</u>	big sagebrush	native shrub
ARTRT*	<u>Artemesia tridentata</u> <u>tridentata</u>	basin big sagebrush	native shrub
ARTRV	<u>Artemesia tridentata</u> <u>vaseyana</u>	mountain big sage- brush	native shrub
ARTRW*	<u>Artemesia tridentata</u> <u>wyomingensis</u>	Wyoming big sagebrush	native shrub
ATCA2	<u>Atriplex canescens</u>	fourwing saltbrush	native shrub
ATCO	<u>Atriplex confertifolia</u>	shadscale saltbrush	native shrub
ATRIP	<u>Atriplex</u> sp.	saltbrush	native shrub
ATTO	<u>Atriplex torreyi</u>	whitesage saltbrush	native shrub
CELEI2	<u>Cercocarpus ledifolius</u> <u>intricatus</u>	white curleaf mount- ain mahogany	native shrub
CHNA2	<u>Chrysothamnus nauseo-</u> <u>sus</u>	rubber rabbitbrush	native shrub
CHRY9	<u>Chrysothamnus</u> sp.	rabbitbrush	native shrub
CHVI8	<u>Chrysothamnus viscid-</u> <u>iflorus</u>	Douglas rabbitbrush	native shrub
COME5	<u>Cowania mexicana</u>	Mexican cliffrose	native shrub
DAPO2	<u>Dalea polydenia</u>	Nevada dalea	native shrub

<u>Plant Code</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Plant Type</u>
DIST	<u>Distichlis stricta</u>	inland saltgrass	perennial native grass
ELCI2	<u>Elymus cinereus</u>	basin wildrye	perennial native grass
EPNE	<u>Ephedra nevadensis</u>	Nevada ephedra	native shrub
EULA5	<u>Eurotia lanata</u>	winterfat	native halfshrub
GLNE	<u>Glossopetalon nevadense</u>	Nevada greasebrush	native shrub
GRSP	<u>Grayia spinosa</u>	spiny hopsage	native shrub
HIJA	<u>Hilaria jamesii</u>	galleta	perennial native grass
HYMEN3	<u>Hymenoclea</u> sp.	burrobrush	native shrub
JUOS	<u>Juniperus osteosperma</u>	Utah juniper	native tree
LYCO2	<u>Lycium cooperi</u>	Cooper wolfberry	native shrub
MESP2	<u>Mendora spinescens</u>	spiny mendora	native halfshrub
ORHY	<u>Oryzopsis hymenoides</u>	Indian ricegrass	perennial native grass
PIMO	<u>Pinus monophylla</u>	singleleaf pinyon	native tree
POA++	<u>Poa</u> sp.	bluegrass	perennial native grass
POSC	<u>Poa scabrella</u>	pine bluegrass	perennial native grass
PPGG	(This is a general code used for all perennial grasses)		
PUTR2	<u>Purshia tridentata</u>	antelope bitterbrush	native shrub
SARCO	<u>Sarcobatus</u> sp.	greasewood	native shrub
SAVE4	<u>Sarcobatus vermiculatus</u>	black greasewood	native shrub
SAVEB	<u>Sarcobatus vermiculatus baileyi</u>	Bailey greasewood	native shrub
SIHY	<u>Sitanion hystrix</u>	bottlebrush squirrel-tail	perennial native grass
SPAI	<u>Sporobolus airoides</u>	alkali sacaton	perennial native grass
SPAM2	<u>Sphaeralcea ambigua</u>	desert globemallow	perennial native forb
STCO	<u>Stipa comata</u>	needleandthread	perennial native grass
STIPA	<u>Stipa</u> sp.	needlegrass	perennial native grass

<u>Plant Code</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Plant Type</u>
STSP3	<u>Stipa speciosa</u>	desert needlegrass	perennial native grass
STTH2	<u>Stipa thurberiana</u>	Thurbers needlegrass	perennial native grass
SUAED	<u>Suaeda sp.</u>	seepweed	perennial native forb
TECO2	<u>Tetradymia comosa</u>	hairy horsebrush	native shrub
TEGL	<u>Tetradymia glabrata</u>	littleleaf horsebrush	native shrub

1/All codes and names used in this appendix are based on the National List of Scientific Plant Names (SCS 1982).

APPENDIX 2
ECOLOGICAL SITES

A. Huntoon Valley Allotment:

Site No. 1/	Site Name	Potential Vegetative Type 2/	Potential Category	Total Acres	Percent of Allotment
027X009N	Sandy 5-8" p.z.	ORHY, ATCA2, EULAS, DAP02	Moderate	3,581	23
029X036N	Cobbly Loam 5-8" p.z.	MESP2, ORHY, SAVES, ATCO, HIJA	Low	1,709	11
029X037N	Shallow Stony Loam 5-8" p.z.	MESP2, HIJA, EPNE, SAVES	Low	1,586	10
027X023N	Dunes 4-8" p.z.	TECO2, ATCA2, ORHY	Low	1,424	9
027X036N	Sodic Flat 3-6" p.z.	SAVE4, ATCO, LYCO2, ORHY	Low	1,383	9
029X033N	Sodic Hill 3-5" p.z.	ATCO, SAVES, DAP02, ORHY	Low	831	5
027X025N	Sodic Flat 4-8" p.z.	SAVE4, ATCO, DIST	Low	634	4
029X010N	Steep Loamy p.z.	ARTRW*, HIJA, ORHY, STIPA	Moderate	576	4
027X016N	Sodic Dunes 4-8" p.z.	SAVE4, ORHY	Low	469	3
029X041N	Wash 3-5" p.z.	CHNA2, ATCA2, HYMEN3, ORHY	Low	468	3
029X026N	Loamy 8-10" p.z.	ARTRW*, HIJA, ORHY	Moderate	408	3
-----	Rock Outcrop	Barren	---	379	2
029X016N	Loamy Upland 5-8" p.z.	GRSP, HIJA, ORHY	Low	365	2
029X014N	Shallow Calcareous Hill 8-12" p.z.	ARAN, HIJA, EPNE, ORHY	Low	294	2
027X047N	Droughty Loam 8-10" p.z.	STSP3, ARTRW*, EPNE	Low	238	1
027X007N	Loamy Slope 8-10" p.z.	POSC, ARTRW*, GRSP, STTH2	Moderate	175	1
-----	Playa	Barren	---	147	1
027X040N	Sandy 3-5" p.z.	ORHY, ATCA2, LYCO2	Low	143	1
027X022N	Wash 4-8" p.z.	TEGL, CHNA2, SAVES, GRSP, ORHY	Low	135	1
027X043N	Gravelly Loam 3-6" p.z.	ATCO, LYCO2, ORHY, SAVES	Low	130	1
029X063N	Dry Sodic Terrace 3-12" p.z.	ATCO, SAVE4, SAVES	Low	112	1
029X049N	Sandy Loam 8-12" p.z.	HIJA, ARTRW*, ORHY, STIPA	Moderate	89	1
027X029N	Wash 8-10" p.z.	ARTR2, CHEYS9, GRSP	Low	80	1
-----	Pinyon - Juniper Woodland	PIMO, JUOS	Low	56	Trace
027X030N	Gravelly Loam 6-8" p.z.	ATCO, SAVES, PDA++	Low	32	Trace
027X065N	Droughty Slope 8-10" p.z.	STSP3, ARTRW*, EPNE, GRSP	Low	28	Trace
029X049N	Sandy Loam 5-8" p.z.	HIJA, EULAS, ATCA2, ARSP5, ORHY	Low	20	Trace

029X028N	Shallow Calcareous Loam 9-12" p.z.	ARARN, HIJA, ARSP5, STIPA	Moderate	308	Trace
026X028N	Mountain Ridge 16+" p.z.	ARARB, STIPA, POA++	Low	277	Trace
027X044N	Saline Flat 5-8" p.z.	ATTO, SAVE4, ELCI2	Low	261	Trace
027X045N	Sandy 8-10" p.z.	DRHY, AGSM, ARTRW*	Moderate	256	Trace
027X030N	Gravelly Loam 6-8" p.z.	ATCO, SAVEB, POA++	Low	169	Trace
026X020N	Sandy 8-10" p.z.	ARTRW*, STCO4, DRHY	Moderate	65	Trace
026X038N	Loamy 14-18" p.z.	ARTRV, STIPA	High	63	Trace
029X009N	Wash 5-12" p.z.	ARTRT*, CHNA2, ELCI2	Moderate	51	Trace
026X005N	Loamy 12-14" p.z.	ARTRV, PUTR2, STIPA	High	48	Trace
027X066N	Breaks 6-12" p.z.	EPNE, ARARN, COMES	Low	31	Trace
029X020N	Silty 5-8" p.z.	EULAS, ARSP5, HIJA, DRHY	Low	28	Trace
029X040N	Mahogany Thicket	CELEI2, GLNE	Low	25	Trace
027X020N	Claypan 8-10" p.z.	ARARB, STTH2, POSC	Low	25	Trace
028X011N	Shallow Calcareous Loam 8-12" p.z.	ARARN, DRHY, STCO4	High	18	Trace
027X041N	Deep Sodic Fan 4-8" p.z.	ATTO, ELCI2, SAVE4	High	13	Trace
-----	Rubbleland	Barren	---	12	Trace
029X063N	Dry Sodic Terrace 3-12" p.z.	ATCO, SAVE4, SAVEB	Low	11	Trace
027X061N	Shallow Calcareous Loam 6-9" p.z.	ARARN, SAVEB	Low	9	Trace
-----	Badlands	Barren	---	8	Trace
-----	Dunes	Barren	---	5	Trace

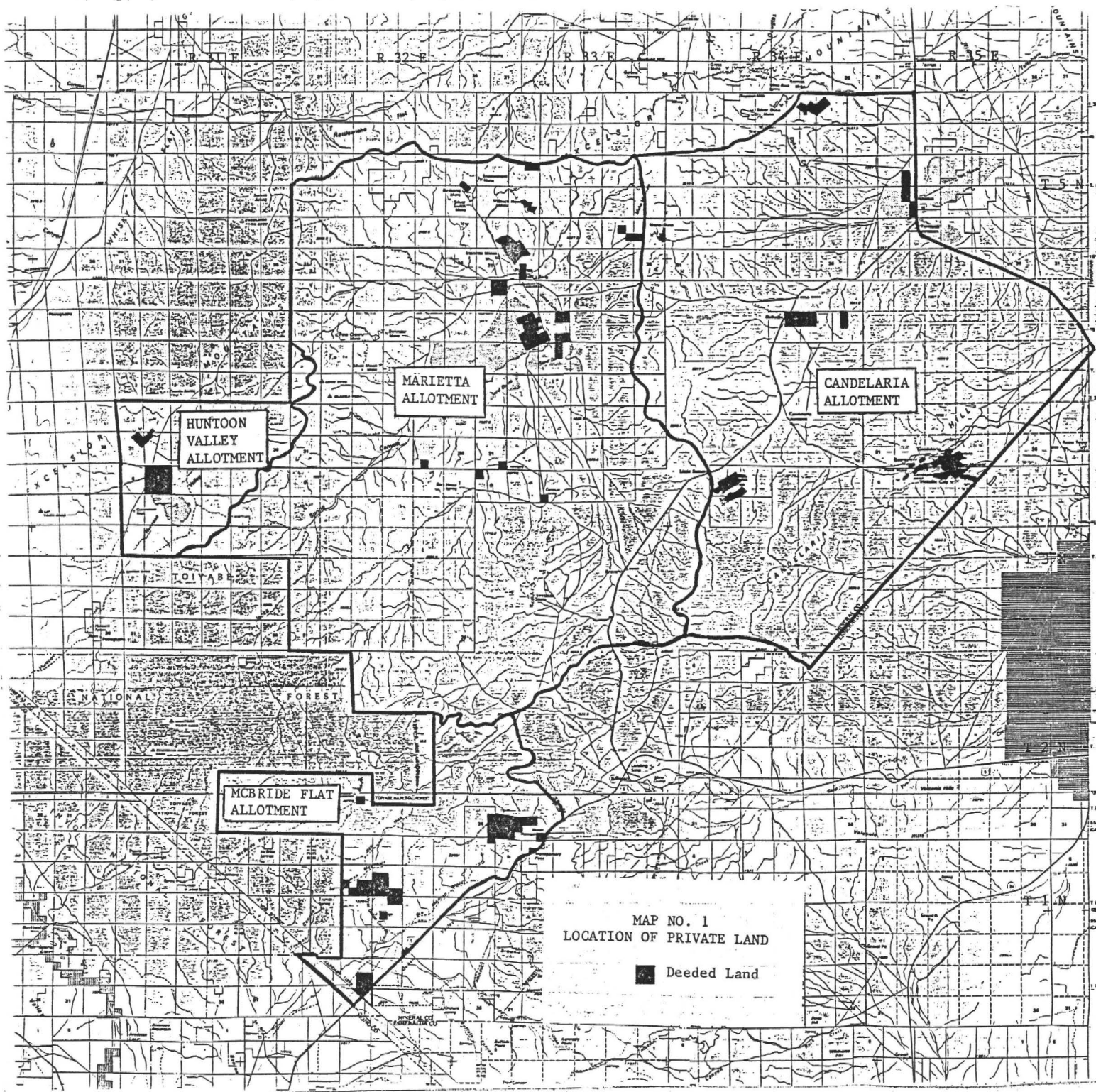
026X028N	Mountain Ridges 16+" p.z.	ARAR8, STIPA, POA++	Low	119	Trace
-----	Playa	Barren	---	115	Trace
029X011N	Sandy 8-12" p.z.	ORHY, ARTR2, SPCR, EULA5	High	94	Trace
-----	Rubbleland	Barren	---	86	Trace
029X020N	Silty 5-8" p.z.	EULA5, HIJA, ARSP5, ORHY	Low	49	Trace
027X060N	Sandy 3-5" p.z.	ORHY, ATCA2, LYCO2	Low	48	Trace
029X049N	Sandy Loam 8-12" p.z.	HIJA, ARTRW*, ORHY, STIPA	Moderate	39	Trace
027X008N	Loamy 8-10" p.z.	ARTRW*, GRSP, POSC, ORHY	Moderate	30	Trace
027X061N	Shallow Calcareous Loam 6-8" p.z.	ARARN, SAVEB, STSP3	Low	28	Trace
027X041N	Deep Sodic Fan 4-8" p.z.	ATTO, SAVE4, ELCI2	High	24	Trace
029X006N	Loamy 8-10" p.z.	ARTRW*, HIJA, ORHY	Moderate	22	Trace
027X045N	Sandy 8-10" p.z.	AGSM, ORHY, ARTRW*	Moderate	21	Trace
027X044N	Saline Flat 5-8" p.z.	ATTO, SAVE4, ELCI2	Low	21	Trace
027X054N	Loamy Slope 10-12" p.z.	ARTR2, POA++, STTH2	Moderate	16	Trace
029X040N	Mahogany Thicket 12-16" p.z.	CELEI2, GLNE	Low	15	Trace
029X063N	Dry Sodic Terrace 3-12" p.z.	ATCO, SAVE4, SAVEB	Low	13	Trace
-----	Badlands	Barren	---	9	Trace
027X027N	Shallow Slope 4-8" p.z.	ATCO, SAVEB, ORHY, STSP3	Low	8	Trace
027X022N	Wash 4-8" p.z.	TESL, CHNA2, SAVEB, GRSP, ORHY	Low	3	Trace

B. Marietta Allotment:

Site No.	Site Name	Potential Vegetative Type	Potential Category	Total Acres	Percent of Allotment
029X036N	Cobbly Loam 5-8" p.z.	MESP2, ORHY, SAVEB, ATCO	Low	27,834	22
029X037N	Shallow Stony Loam 5-8" p.z.	MESP2, HIJA, EPNE, SAVEB	Low	15,002	12
029X010N	Steep Loamy 8-12" p.z.	ARTRW*, HIJA, ORHY, STIPA	Moderate	10,378	8
-----	Pinyon - Juniper Woodland	PIMO, JUOS	Low	9,053	7
029X014N	Shallow Calcareous Hill 8-12" p.z.	ARAN, HIJA, EPNE, ORHY	Low	7,874	6
029X033N	Sodic Hills 3-5" p.z.	ATCO, SAVEB, DAF02, ORHY	Low	6,872	6
027X060N	Sandy 3-5" p.z.	ORHY, LYCO, ATCA2	Low	6,064	5
-----	Rock Outcrop	Barren	---	5,545	4
029X041N	Wash 3-5" p.z.	(Unstable) CHNA2, ATCA2, ORHY	Low	4,341	3
027X009N	Sandy 5-8" p.z.	ORHY, ATCA2, EULA5	Moderate	4,034	3
027X065N	Droughty Slope 8-10" p.z.	ARTRW*, STSF3	Low	3,073	2
-----	Playa	Barren	---	3,065	2
029X006N	Loamy 8-10" p.z.	ARTRW*, HIJA, ORHY	Moderate	2,658	2
027X037N	Loamy Slope 8-10" p.z.	POSC, ARTRW*, GRSP	Moderate	2,472	2
027X005N	Wet Sodic Bottom 4-8" p.z.	SPAI, DIST, SAVE4	High	2,162	2
027X017N	South Slope 4-8" p.z.	STSP3, ATCO, TEGL	Low	1,909	2
027X016N	Sodic Dunes 4-8" p.z.	SAVE4, ORHY	Low	1,561	1
027X022N	Wash 4-8" p.z.	TEGL, CHNA2, SAVEB, ORHY	Low	1,556	1
029X022N	Sodic Hill 5-8" p.z.	ATCO, HIJA, ORHY, SAVEB	Low	1,442	1
027X036N	Sodic Flat 3-6" p.z.	SAVE4, ATCO, LYCO	Low	922	1
027X047N	Shallow Granitic Upland	STSP3, TEGL, LYAN	Low	919	1
027X025N	Sodic Flat 4-8" p.z.	SAVE4, ATCO, SVAED	Low	801	1
029X049N	Sandy Loam 8-12" p.z.	HIJA, ARTRW*, ORHY, STIPA	Moderate	798	1
027X029N	Wash 8-10" p.z.	ARTRW*, ARTRT*, GRSP, CHRYS9	Low	682	1
027X023N	Dunes 4-8" p.z.	TECO2, ORHY	Low	634	1
029X016N	Loamy Upland 5-8" p.z.	GRSP, HIJA, ORHY	Low	590	Trace
027X043N	Gravelly Loam 3-6" p.z.	ATCO, LYCO, ORHY	Low	366	Trace
027X017N	South Slope 4-8" p.z.	STSP3, ATCO, TEGL	Low	326	Trace

C. Candelaria Allotment:

Site No.	Site Name	Potential Vegetative Type	Potential Category	Total Acres	Percent of Allotment
029X036N	Cobbly Loam 5-8" p.z.	MESP2, ORHY, SAVEB, ATCO, HIJA	Low	24,389	24
029X037N	Shallow Stony Loam 5-8" p.z.	MESP2, HIJA, EPNE, SAVEB	Low	15,653	16
029X014N	Shallow Calcareous Hill 8-12" p.z.	ARARN, HIJA, EPNE, ORHY	Low	9,452	9
029X033N	Sodic Hill 3-5" p.z.	ATCO, SAVEB, DAP02, ORHY	Low	9,312	9
029X017N	Loamy 5-8" p.z.	HIJA, ATCO, SAVEB, ARSP5	Low	6,066	6
029X041N	Wash 3-5" p.z.	CHNA2, ATCA2, HYMN3, ORHY	Low	5,804	6
027X043N	Gravelly Loam 3-6" p.z.	ATCO, LYCO2, ORHY, SAVEB	Low	4,322	4
-----	Rock Outcrop	Barren	---	4,030	4
-----	Pinyon - Juniper Woodland	PINC, JUQS	Low	3,936	4
027X007N	Loamy Slope 8-10" p.z.	POSC, ARTRW*, GRSP, STTH2	Moderate	2,260	2
029X032N	Sodic Upland 3-5" p.z.	ATCO, SAVEB, LYCO2	Low	2,242	2
029X022N	Sodic Hill 5-8" p.z.	ATCO, HIJA, SAVEB, ORHY	Low	2,189	2
027X065N	Draughty Loam 8-10" p.z.	ARARN, SAVEB, STSP3	Low	1,954	2
029X018N	Steep Loamy 8-12" p.z.	ARTRW*, HIJA, GRHY, STIPA	Moderate	1,221	1
027X020N	Claypan 8-10" p.z.	ARARS, POSC, STTH2	Low	989	1
027X025N	Dunes 4-8" p.z.	TECO2, ATCA2, ORHY	Low	946	1
027X036N	Sodic Flat 3-6" p.z.	SAVE4, ATCO, LYCO2, ORHY	Low	933	1
027X009N	Sandy 5-8" p.z.	ORHY, ATCA2, EULAS, DAP02	Moderate	856	1
027X029N	Wash 8-10" p.z.	ARTR2, CHRYS9, GRSP	Low	537	1
027X017N	South Slope 4-8" p.z.	STSP3, TEGL, ORHY, ATCO	Low	483	Trace
029X008N	Shallow Calcareous Loam 8-12" p.z.	ARARN, HIJA, STIPA, ARSP5	Moderate	448	Trace
-----	Dumps / Pits	Barren	---	349	Trace
-----	Dunes	Barren	---	262	Trace
027X047N	Shallow Granitic Upland 4-8" p.z.	STSP3, LYAN, TEGL, EPNE, HIJA	Low	245	Trace
027X016N	Sodic Dunes 4-8" p.z.	SAVE4, ORHY	Low	211	Trace
027X038N	Gravelly Loam 6-8" p.z.	ATCO, SAVEB, PCA++	Low	209	Trace
027X025N	Sodic Flat 4-8" p.z.	SAVE4, ATCO, DIST	Low	183	Trace
027X025N	Wet Sodic Bottom 4-8" p.z.	ELTR2, ELCI2, A6SM	High	174	Trace



HUNTOON
VALLEY
ALLOTMENT

MARIETTA
ALLOTMENT

CANDELARIA
ALLOTMENT

MCBRIDE FLAT
ALLOTMENT

MAP NO. 1
LOCATION OF PRIVATE LAND

■ Deeded Land

