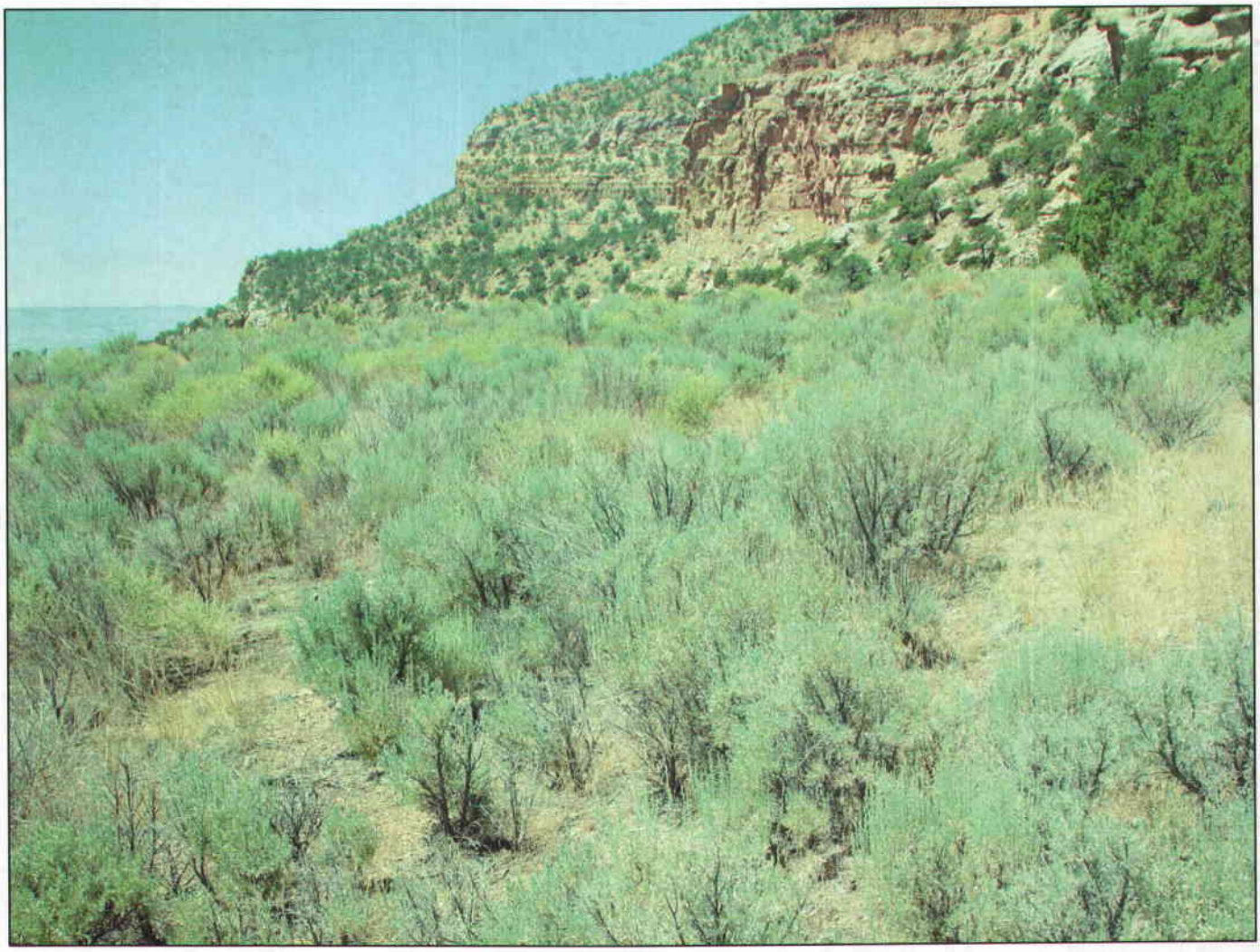
Horse Canyon Mine Part "A"

Phase III
Bond Release Application

November 6, 2008



Chapter III
RECLAMATION PLAN

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4.7 RECLAMATION COST ESTIMATE

The cost estimate for reclamation includes demolition and disposal of structures and foundations, backfilling of portals and highwalls, distribution of topsoil, establishment of sedimentation controls, revegetation, fencing, monitoring of sediment control and revegetation, and maintenance of sediment controls. Details of the cost estimate are found in Appendix IV-4. Total bonding estimate for the permit is $1,950,002.

Phase I bond release for $812,726 was approved by the Division on February 5, 1997. Phase II bond release for $191,672 was approved by the Division on April 11, 2002.

Phase III bond release application was submitted for $1,053,328.00. The bond for $8,000 will remain in place to cover .49 acres involved with a repaired drainage ditch. Bond calculations can be found on the next page.

Bonding Calculations
Horse Canyon MineC/007/013
Lila Canyon Section

Bond Summary

Direct Costs		
Subtotal Demolition and Removal		
Subtotal Backfilling and Grading		
Subtotal Revegetation	$4,840.00	
Direct Costs	$4,840.00	
Indirect Costs		
Mob/Demob	$484.00	10.0%
Contingency	$242.00	5.0%
Engineering Redesign	$121.00	2.5%
Main Office Expense	$329.00	6.8%
Project Mainagement Fee	$121.00	2.5%
Subtotal Indirect Costs	$1,297.00	26.8%
Total Cost	$6,137.00	
Escalation factor		0.0444
Number of years		5
Escalation	$1,489.00	
Reclamation Cost	$7,626.00	
Bond Amount (rounded to nearest $1,000) 2008 Dollars	$8,000.00	
Bond Posted 2003	$1,061,328.00	
Difference Between Cost Estimate and Bond	$1,053,328.00	
Percent Difference	13166.60%	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Vegetation																			
	Ground Preparation																			
	See Chapter 5 page 95-96 Sec. 553.230																			
	Soil to be ripped	75 HP Dozerw/scarifiers	M029107103100	3.87	MSF					0.49						AC		21	MSF	81
	Gouging/Pocking																			
	Assume 340 CY/AC	Excavation Bulk Bank 2 CY (322BL)	M023154240260	1.7	/CY					0.49						AC		167	CY	284
	Subtotal																			365
	Seeding																			
	Fertilize Material	Fertilizer Hyrdor Spread Mat. Only	Reveg006	8.71	/MSF					0.49						AC		21	MSF	183
	Fertilize Application	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.13	/MSF					0.49						AC		21	MSF	402
	Seeding Materials	Grasses for Lila Canyon	Lila07131	140.5	/AC					0.49						AC		0.49	AC	69
	Seeding Materials	Forbs for Lila Canyon	Lila07132	92.2	/AC					0.49						AC		0.49	AC	45
	Seeding Materials	Shrubs for Lila Canyon	Lila07133	106.45	/AC					0.49						AC		0.49	AC	52
	Seeding Application	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.13	/MSF					0.49						AC		21	MSF	402
	Mulch Materials	Hay 1" material only 029105000250	Reveg001	68	/MSF					0.49						AC		21	MSF	1428
	Mulch Application	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.13	/MSF					0.49						AC		21	MSF	402
	Subtotal																			2983
	Reseeding																			1492
	Assume 50% reseeding rate																			
	Subtotal																			1492
	Total																			4840

Appendix III-1

Phase III Bond Release Application
Horse Canyon Mine

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APPENDIX III-1

Phase III Bond Release Application
Horse Canyon Mine

January 25, 2008

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Appendix III-1
Phase III Bond Release Application
Horse Canyon Mine

The purpose of this application is to request Phase III Bond Release for the Horse Canyon Mine including the Post Mine Land Use Change area with structures and buildings approved by the Division of Oil Gas and Mining (Division) on February 25, 2004. This application includes the lands included in the previous bond releases:

1. Phase I (51.56 acres) bond release for $812,726 was approved by the Division on February 5, 1997.

2. Phase II (51.56 acres) bond release for $191,672 was approved by the Division on April 11, 2002.

One area not included in this application is a small 0.49 acre area on the Road Junction Refuse Pile shown on Map III-2A. This area consists of an access road to the channel that sustained storm runoff damage, and the channel repair area. The damaged channel was repaired and the area seeded.

This application is for a total of 91.97 acres including the land donated to CEU, 6.5 acres designated for disturbance but never disturbed, the west bridge abutment left in place as required by Emery County. In addition, the Horse Canyon (Range Creek) public road is included in Phase III but will remain as required by Emery County. The Maps included with this application show the as-built contours after reclamation for the areas included in the Phase I and Phase II Bond Release applications. The area included in the CEU donation area where the postmining land use change was approved is also shown on the same maps with contours and with the facilities, and buildings shown and labeled. A list of these facilities and buildings can also be found in appendix X-4. The Emery County Horse Canyon (Range Creek) public road is also shown on the maps as dashed lines indicating the right-of-way lines.

Application Format

This application is formatted following Technical Directive Tech - 006, Requirements for Phased Bond Release, March 1, 2001.

This application will present the appropriate Technical Directive section headings in bolded italics followed by responses as follows:

5. Procedure
Prior to Bond Release Request

Permit reclamation changes and post mine land use changes:

All permit revisions have been approved by the Division and incorporated into the MRP.

A Post Mine Land Use Change (PMLU) for 16.18 acres not included in the Phase I and Phase II bond release areas was submitted and later approved by the Division on February 25, 2004 for a portion of the Horse Canyon Mine including buildings and areas donated to the College of Eastern Utah (CEU) under an Asset Assignment Agreement. The post mining land use change was added to the MRP as Appendix X-4 in Chapter X, Volume IV.

The Post Mine Land Use Change area can be seen on Exhibits A-1, A-2, A-3 and A-4 of the PMLU Change application (Appendix X-4, Volume IV of the MRP). The areas covered by this bond release application can be found on Plates III-2A thru III-2G attached to this application as Exhibit III-1-4 including the PMLU area and the areas covered by the approved Phases I and II bond releases. The base map for Plates III-2A through III-2F have been assembled by duplicating Plates III-1A through III-1F, Plate III-2G has been added to include small areas that extended off of Plates III-2A, and III-2B. Four (4) copies are include for insertion into the MRP document.

A copy of the Asset Assignment Agreement with CEU can be found in the Division files under the PLMU application, and as Exhibit III-1-1 of this application.

1. Certify Reclamation

As-build drawings (Plates III-1A thru III-1F) were submitted and approved as part of the Phase II bond release application; these plates have been incorporated into the MRP. Information adequate for Phase I and Phase II bond releases were previously submitted and accepted by the Division as evidenced by the approved Phase I and Phase II bond releases. The approved Post Mine Land Use Change referenced above modified the reclamation plan to leave the buildings, structures and areas as-is for use by the CEU. Therefore, that area, buildings and structures were not reclaimed.

Form C1 included with this application contains a notarized certification.

A statement certifying that applicable reclamation activities have been accomplished in accordance with requirements of the R645 rules is included as Appendix III-1-8.

2. Provide agreements for structures remaining for post mine land use.
Phase III Bond Release Area:

Exhibit III-1-1 to this application includes a signed copy of the Asset Assignment Agreement with the CEU for the post mine land use change area. The structures and areas not reclaimed, and left for post mine land use are shown on Maps III-2C, III-2D, III-2E, and III-2F in the area designated on the maps, "Post Mine Land Use Change Area Donated To CEU." The structures and areas are described in detail in Appendix III-1-1 of this submittal, and in the Post Mine Land Use Change previously approved by the UDOGM.

0.01 Acre Area For Emery County Road West Bridge Abutment and the Horse Canyon (Range Creek Road)

On October 4, 1995, a Special Warranty Deed and Dedication Agreement between Intermountain Power Agency, and Emery County was executed giving Emery County rights to the Horse Canyon (Range Creek) road for it's use(refer to Appendix I-6 in Chapter I, Volume I of the MRP). This agreement states that, "The road was established and used by the public to access public lands for recreational and ranching purposes prior to Grantor's improvement of the Road and use thereof for mining purposes." The road has been used by many landowners in Range Creek for decades to access their property, as well as property on the Tavaputs Plateau. Therefore, the Horse Canyon (Range Creek) road by prescriptive use has been a public road for decades. Prescriptive use is a legal precedent established by long-time public use, and has been upheld in many court cases nation-wide, and in Utah. On page X-16 of the approved MRP, it states:

> The public road currently in existence through the permit area will be retained during and following the mining and reclamation periods. A road has been present in Horse Canyon through the mine area since at least 1899 and presumably has been used by the public. Maps illustrating the existence of this road have been provided as Plates X-1 and X-2 As shown on Plate X-1, the road parallels the course of the Horse Canyon Creek through Sections 3 through 6, 8, and 9 of T. 16 S., R. 14 E.. The road crosses from the south side to the north side of the creek bed in the northern portion of Section 8. The road apparently drops into the creek bed in the northern portion of Section 9 and then continues up the drainage. The road appears to become a trail in the northwest portion of Section 3. The trail continues up the South fork of Horse Canyon as illustrated on Plate X-2.

A copy of a letter from the Emery County Road Department, dated February 26, 1996 discussing the Horse Canyon (Range Creek) road is included in Appendix I-6. This letter specifically says that Emery County understands that "•••the right-of-way includes all structures within the legal description of the property." Further, the letter states, "The structures within the right-of-way also include the bridge that spans Horse Canyon Creek within the mine area."

The Emery County road has been clearly marked and labeled on all maps included in this application. The road includes a 100 foot wide strip centered on the Horse Canyon (Range Creek) road, with wider sections where there are drainage structures, and where the bridge crosses the creek. As can be seen on the maps, areas where mining activity disturbed land within the road were reclaimed and have been included in Phases I and II bond releases. The areas not included in Phase I and Phase II bond releases within the Emery County road are shown on the attached drawings III-2A through III-2G, and are included in this request for Phase III bond release. The Public Road was not included in the Phase I and Phase II bond release applications, and there was no bond amount designated for the Public Road. This application includes this road to clarify any misconception that may arise over the Public Road.

The current bridge is only one lane wide, and initially Emery County indicated the need to widen the bridge to two lanes. The Horse Canyon (Range Creek) road has been a public road for many decades, long before the SMCRA law came into being. Being a public road, it could not be reclaimed by UEI, or any of it's predecessors. Private property owners in Range Creek and on the Tavaputs Plateau rely on the road for access to their properties. The Emery County Road Supervisor, Mr. Morris Sorensen has determined the west bridge abutment serves to stabilize the channel and road embankment and needs to be left. Further, Mr. Morris indicated that the east abutment could become unstable and should be removed. The east abutment was removed as required.

The approved postmining land use is Wildlife habitat for the major portion of the permit and surrounding areas. As stated in Chapter X of the MPR, on page X-4 Horse Canyon was historically used as a cattle trail, and on page X-16 it states that the road has existed since about 1899. This trail/road likely traversed up the canyon and over the mountain into Range Creek. Further documentation is discussed on page X-16. By necessity, use of the road by ranching requires access for domestic animals, and by ranchers and later when the road was established, their vehicles. Because of long established use, the trail, and then the road became public access to Range Creek and the Tavaputs Plateau. Even though this use may not have been fully discussed in the Horse Canyon Mine permits, it nevertheless existed and cannot be ignored. Court case precedence has been well established that common and long standing use of a trail, or road by the public must be maintained for the benefit of the public. Therefore, the Horse Canyon (Range Creek) road would have to be left operational after mining ceased. As stated on page X-16 of the approved MRP, "The public road currently in existence through the permit area will be retained during and following the mining and reclamation periods."

As can be seen on Plate II-1B of the approved MRP, the disturbed areas include areas used for mining operations and clearly exclude the original Horse Canyon (Range Creek) road. Therefore, the original road was not included in the Phase I, or Phase II Bond release applications. This application requests Phase III bond release for the areas shown on Maps III-2A through III-2G, as well as the entire Emery County road area.

A Post Mining Land Use Change (PMLU) application for 16.18 acres of the mining area

was submitted to the UDOGM and approved for Residential/Recreational for the area including the Horse Canyon Mine buildings. The land and buildings were donated to the Center for Mine Land Redevelopment, and the College of Eastern Utah for use as a science field camp. The Horse Canyon (Range Creek) Road is necessary access to the PMLU area.

In view of the above discussion, the Horse Canyon (Range Creek) road meets the post mining land use objectives. The west bridge abutment is a necessary part of the bridge structure, and therefore will remain after Phase III bond release.

6.5 Acre Borrow Area Disturbed and Not Reclaimed

Map III-2G shows the borrow pit area used to obtain soil materials for final reclamation. As can be seen on the map, the Western portion of the area was used as the borrow area, with the Eastern portion reserved for final reclamation of the buildings area. Since the buildings area was donated to the college of Eastern Utah, and a Land Use Change was approved by the UDOGM, the necessity for borrow from the Eastern area of the borrow pit was precluded. As can be seen by the contours of the Eastern area, no excavations, or removal of soils materials was done. In addition, mature vegetation including pinion and juniper trees in the area attest to the fact that the area has not been disturbed in the past several decades. A pre-law two-track road traverses this area, and it can be verified by the contours along this road that no disturbance has been done. Since the Eastern portion of the borrow area was never disturbed it will be removed from the disturbed area.

The Western portion of the borrow pit area was used for reclamation materials for the Horse Canyon Mine as discussed previously. This Western area was included in Phases I and II reclamation bond release, and is included in this Phase III bond release application. It is requested by this application to included both the Western and Eastern portions of the borrow pit for final Phase III bond release since all reclamation standards have been met for the Western portion, and the Eastern portion was never disturbed.

3. Address performance standards.

The land use change area and structures will be used by the CEU. The area has been donated in total including ownership of the property and therefore is removed from reclamation responsibility, although no bond reduction has been applied for. This Phase III bond release application includes the acreage, buildings and structures including the post mine land use change area as well as the areas reclaimed under the Phase I and Phase II bond releases. All pertinent requirements were addressed in the post mine land use change application.

Post Mining Landuse

The postmining landuse of Wildlife Habitat has been achieved by providing much better vegetation for foraging animals than exists in the undisturbed surrounding area. The attached vegetation reports verify that the vegetation reclamation standards have been met or exceeded.

The Horse Canyon Mine buildings and other areas were included in a postmining land use change to Wildlife and Residential/Recreational approved by the UDOGM, with the intent to be used by the CEU for a science field camp. Reclamation in the area provides a good environment for a science field camp by providing vegetation that will attract wildlife. In addition, the buildings and area will provide a base for science studies possibly including, vegetation, soils, geology, paleontology, archeology, and wildlife.

AOC Considerations

6.5 Acre area

As can be seen on Map III-2G, the contour lines in the 6.5 acre area not reclaimed or used for a borrow area for reclamation are quite irregular in nature, indicating that no excavation was conducted during reclamation of the Horse Canyon Mine. Two old pre-law roads criss-cross the area, and it can be seen by observing the contour lines that they have not been modified by borrow activities. In addition, mature vegetation and large mature trees in the area indicate that no disturbance has been done in this area for many decades. Since the area has not been disturbed, the existing contours are the original contours, and require no modification, this area was removed from the disturbed area.

0.01 Acre area

The east bridge abutment is included in the 0.01 acre area. The Horse Canyon Creek is a deeply incised canyon with very steep side walls in this area. This has likely been the case for this canyon for eons, and is typical of canyons in the general area. The bridge abutments do not alter the general shape of the canyon. Since the road is a public road, and the west abutment is necessary to stabilize the channel and road embankment , the road and west abutment supports post mining land use. The west abutment will be left in place as requested by Emery County officials. The east abutment was removed.

Underground Mine Openings

Page IV-15 of the approved MRP states: "There are twelve openings within the Horse Canyon permit area that are sealed. The seals used are suitable for temporary closure or permanent reclamation".

Page II-8 of the approved Horse Canyon MRP states: "In the third quarter of 1986 all portals were sealed with solid block walls to prevent unauthorized entry of the mine. The seals used are suitable for temporary closure or permanent reclamation."

A Minor Exploration Permit was approved by DOGM in January of 1992. This permit allowed for BXG, Inc. To breach the seals and explore the Horse Canyon mine. The exploration plan states: "This exploration is not being conducted by the owner or permit holder. Thus, no permit will be modified or revised."

BXG's Horse Canyon Exploration Project began in late August of 1992 with MSHA's approval of the Seal Breaching Plan and subsequent breaching of the Horse and Lila Canyon seals on August 26 and 27, 1992. Mine exploration began January 22, 1993, after MSHA approval of the mine Exploration Plan received on December 30, 1992. A resealing plan was submitted to MSHA on April 27, 1993 and approved May 14, 1993. The Lila and Horse Canyon seals breached in August, 1992 have been restored to original condition.

The BLM has approved a permanent closure for the old Lila fan portals. The closure obligation will be assigned to Part "B".

REQUEST FOR BOND RELEASE

I. A. Notarized signature

This application has been formatted as new Appendix III-1, Chapter III, Volume I of the MRP, and includes form C1 which includes a certification with notarization.

I. B. Notification letters

Exhibit III-1-2 includes copies of notification letters sent to the appropriate individuals and entities included in the following list:

ADJACTENT PROPERTY OWNERS

Mr. Josiah K. Eardley
2433 So. Highway 10
Route 1, Box 119
Price, Utah 84501

Mr. Dave Stokes
Bronco Coal
340 South Carbon Ave. Suite 126
Price, Utah 84501

College Of Eastern Utah Foundation
451 East 400 North
Price, Utah 84501

GOVERNMENT AGENCIES

Mr. Bruce Andrews, Mayor
Sunnyside City
701 Market St.
Sunnyside, Utah 84539

Mr. Orlando LaFontaine, Mayor
East Carbon City
101 W. Geneva Dr.
East Carbon, Utah 84520

Mr. Drew Sitterud
Emery County Commission
95 East Main Street
Castle Dale, Utah 84112

Mr. Bill Krompel
Carbon County Commission
120 East Main St.
Price, Utah 84501

Department of Natural Resources
Division of Sovereign Lands & Forestry
1594 W. North Temple, Suite 3520
P.O. Box 145703
Salt Lake City, Utah 84114-5703

United States Department of The Interior
Bureau of Land Management
Mr. Mark Mackiewicz
125 South 600 West
Price, Utah 84501

Emery County Planning and Zoning Commission
PO Box 727
75 East Main St.
Castle Dale, Utah 84513

WATER & SEWER

Castle Valley Special Service District
86 South 100 East
Castle Dale, Utah 84513

I. C. NEWSPAPER ADVERTISEMENT

Exhibit III-1-3 includes a copy of the public notice required by R645-301-880-120. Poof of publication will be submitted following posting and receipt of signed affidavit of publication

I. D. PERMIT CONDITIONS

There are no outstanding permit conditions.

II. A. 1. Legal description of the permit area.

The permit area is shown on the Lila Point, and Cedar U.S. Geological Survey 7.5-minute Quadrangle maps. The areas covered in this Phase III Bond release application include 51.56 acres covered by the Phase I and Phase II bond releases as well as 6.5 acres at the borrow area which was partially disturbed during reclamation efforts in 1990 -1991 by removing some fill material for reclamation. This disturbance of the borrow area was reclaimed at that time and has not been disturbed since. In addition, 0.01 acres including the west bridge abutment was retained by Emery County for the bridge providing access to the Horse Canyon (Range Creek) County road. Also, 16.18 acres were donated to CEU, making a total of 74.26 acres included in this bond release application.

The complete permit legal description can be found in Chapter I, Volume 1 of the MRP. More specifically, the disturbed areas included in the reclamation bond are as follows:

Post Mining Land Use Change Area:

Township 16 South, Range 14 East, SLB&M

Section 3: Lots 3, 6, 11, 12
Section 4: NE4SE4, SE4SE4, NW4SE4, SW4SE4

Containing 16.18 acres.

Phase III Bond Release Areas:

Township 16 South, Range 14 East, Salt Lake Base & Meridian

Section 3

Lot 1, 2, 3, 5, 6, 7, 8, 9, 11, 12; N2SW4SW4, SW4SE4, NW4SW4, NE4SW4 N2SE4, SE4SE4

Section 4

SE4NE4, S2SW4, S2SE4NE4, Lot 9, SE4

Section 5

S2SE4SE4

Section 8

NE4NE4

Section 9

NW4NW4, NE4NW4, NW4NE4

Containing 58.08 acres of disturbed area.

II.A.2. Maps

All disturbed areas where reclamation has been completed are included in this Phase III Bond Release application. Those areas can be seen on Plates III-1A thru 1F, III-1A-1, III-B-1, III-1C-1, III-1D-1, and III-1G in Chapter III, Volume I of the MRP. The disturbed area boundary can also be seen on Plates II-1A and 1B in Chapter II, Volume I. Plates III-A thru III-1F have been revised to reflect the Phase III bond release request including the areas

donated to CEU included in the PMLU and the areas previously reclaimed under the Phase I and Phase II bond releases, and can be seen in Exhibit III-1-4 of this application.

The maps included with this application show the topography of the area including reclaimed area topographic lines. The Emery County public road has been added to clearly designate it's location in relationship to areas reclaimed, and the area donated to the CEU. The donation area is clearly shown on Maps III-2C, III-D, and III-F.

II.A.3. Vegetation Sampling

Vegetation sampling was conducted in 2003 and 2004 for Phase III bond release evaluation. The sampling reports are included in this application as Exhibit III-1-5, Horse Canyon Vegetation Survey - 2003, and Exhibit III-1-6, Horse Canyon Mine Vegetation Survey - 2004. The Division was notified and consulted in this regard as stated in the 2003

sampling report included as Appendix III-1-5, Horse Canyon Vegetation Study - 2003. The vegetation meets the requirements of the standards as follows:

Quoting from the 2003 study report:

> A vegetation inventory was conducted on 6 revegetation sites on the Horse Canyon Mine property between June and August, 2003. Data were collected regarding percent cover, percent cover by species, and woody plant density at each site. Data were also collected from a reference site located on Bureau of Land Management property adjacent to mine property. Revegetation sites were compared to the reference area with respect to cover and woody plant density to determine similarity. All sites cover averages exceed the cover average for the reference site and should be judged to have satisfactorily exceeded minimum requirements with respect to cover. Woody plant density in all revegetated sites exceeded woody plant density in the reference area. Species diversity was also higher in all revegetated areas when compared to the reference area.

Quoting from the 2004 study report:

> A vegetation inventory was conducted on 6 revegetation sites on the Horse Canyon Mine property between June and August, 2003. Data were collected regarding percent cover, percent cover by species, and woody plant density at each site. Data were also collected from a reference site located on Bureau of Land Management property adjacent to mine property. Revegetation sites were compared to the reference area with respect to cover and woody plant density to determine similarity. All sites cover averages exceed the cover average for the reference site and should be judged to have satisfactorily exceeded minimum requirements with respect to cover. Woody plant density in all revegetated sites exceeded woody plant density in the reference area. Species diversity was also higher in all revegetated areas when compared to the reference area. Life form similarity comparisons indicated that in almost every case, the revegetated areas exceeded the 70% standard with respect to percent cover.

II.A.4. Reclamation treatments, areas and work accomplished

The following MRP Chapters address the information required:

Reclamation areas and plan ..... Chapter 3, Volume I
Postmining Topography ..... Chapter 3, Volume I
Drainage Control ..... Chapter 3, Volume I
Vegetation ..... Chapter VIII, Volume IV
Land Use ..... Chapter X, Volume IV

*** The Post Mine Land Use Change including the CEU donation area is included

in Appendix X-4.

Roads

All roads were reclaimed except for the Horse Canyon (Range Creek) public road. All reclaimed roads are included on the maps in the areas designated "Phase III Reclaimed Areas." The roads were reclaimed according to the approved MRP. A short road will be needed to access the Road Junction Refuse Pile channel that sustained storm damage as shown on Map III-2A. This road will be opened up to access the channel for repairs and will be immediately reclaimed and seeded during the first available reclamation season according to the approved MRP.

II.A.5. Mining history and reclamation activities

The Horse Canyon Mine was initially opened by the Defense Plant Corporation in 1942 as a source for coal for the Geneva Steel Works in Orem, Utah. The mine was sold to U.S. Steel in 1946, who operated it until January 1984, when mining was permanently suspended. U.S. Steel submitted a mining and reclamation permit application in March, 1981. In October 1982, U.S. Steel informed the Division that it was temporarily suspending mining operations, and in January 1984 permanent suspension was announced.

In November 1984, Kaiser Steel Corporation purchased the mine property and submitted a reclamation bond in the amount of $918,649, and indicated to the Division that it would maintain the operations in a temporary suspension status until further corporate decisions were made. In February 1987, Kaiser Coal, successor to Kaiser Steel filed a petition for bankruptcy under Chapter 11, Title 11, of the U.S. Bankruptcy Code. Intermountain Power Agency (IPS) acquired the mine and the permit was transferred to IPA in August 1990. IPA was issued a mining and reclamation plan on May 6, 1991, and a reclamation bond in the amount of $1,950,000 was issued in the form of a letter of credit.

Reclamation work proceeded on 51.56 acres of the 74.26 acres in 1990 and 1991. Phase I bond release was granted on February 5, 1997 for $812,276. Phase II bond release application was submitted on December 19, 1997.

UtahAmerican Energy, Inc. acquired the mine from IPA on December 21, 1998. Phase II bond release was granted on April 11, 2002.

II.A.6. Extended Responsibility

One area of extended responsibility period for the Horse Canyon Mine is shown on Map III-2A consisting of a short access road to the channel that sustained storm runoff damage, and the channel repair area. This area and road consist of 0.49 acres.

II.A.7. Remaining sediment control structures

There are no remaining sediment control structures that need to be removed.

II.A.8. Schedule and cost estimate for remaining reclamation

Phase II Bond release has been granted; this application is for Phase III bond release, completing the reclamation process, except for the 0.49 acre area on the Road Junction Refuse Pile where the channel will be repaired.

With the post mine land use change for the CEU donation, all un-reclaimed facilities and land have been removed from permit responsibility.

II.A.9. Summary of bond acreages, dates of bond releases

Date	Status	Amount	Acreages
11 Nov 84	Initial Kaiser Bond	$ 918,649	74.26 Disturbed
6 May 91	IPA Bond	$ 1,950,000	74.26 Disturbed
5 Feb 97	Phase I Bond Release (IPA)	$ 812,726	74.26 - 51.56 = 22.7 Balance
15 Sept 98	Intital Horse Canyon Bond (UAE)	$ 1,137,726	22.7 Disturbed Remaining
24 Jan 01	Adjustment at permit renewal by $115,274	$ 1,253,000	22.7 Disturbed Remaining
11 Apr 02	Phase II Bond Released $191,672	$ 1,061,328	22.7 Disturbed Remaining
25 Feb 04	Post Mine Land Use Change Approved including 16.18 acres	No Change	22.7 -16.18 = 6.52 Remaining
	Phase III Bond Release Application	**$1,053,328**	**91..48 = 91..48 Ph III**
	Road Junction Refuse Pile Channel & Access Road (.49 Ac)	**$8,000**	**0.49 Remaining**

[A] Refer to Section II.A.1 on page 2 of this application for an explanation of the 6.5 acres.

Appendix III-1-1

Asset Assignment Agreement

ASSET ASSIGNMENT AGREEMENT

This ASSET ASSIGNMENT AGREEMENT (this "Agreement"), is made and entered into as of the 13 day of September, 2005 (the "Effective Date"), by and between **UTAHAMERICAN ENERGY, INC.** ("UEI" or "Assignor"), a Utah corporation, having an address of P.O. Box 986, Price, Utah 84501, and the **COLLEGE OF EASTERN UTAH FOUNDATION** ("CEUF" or "Assignee"), a Utah Non-Profit Corporation located in Price Utah, having an address of 451 East 400 North, Price, Utah 84501.

RECITALS

A. UEI is the owner of certain assets held in connection with the Horse Canyon Mine, an underground coal mine, including certain surface lands and facilities which are being reclaimed pursuant to the provisions of the Utah Coal Mining and Reclamation Act and Permit No. C/007/013, situated in Carbon County and Emery County, Utah.

B. UEI desires to donate, transfer and assign to CEUF and CEUF desires to accept and acknowledge the donation from UEI of certain of the Horse Canyon Mine property assets and water rights, collectively referred to as the "Donated Property," all subject to the terms and conditions of this Agreement.

NOW, THEREFORE, In consideration of the promises and benefits contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, UEI as Assignor and CEUF as Assignee, agree as follows:

ARTICLE I
Definitions

1.1 Certain Definitions. In this Agreement, capitalized terms and other defined terms described before shall have the meanings set forth as follows:

"Agreement" means this Asset Assignment Agreement and the exhibits attached hereto and all agreements or instruments executed in connection herewith or described pursuant hereto.

"Bond" means the Horse Canyon Mine reclamation bond provided by UEI to the Division.

"Coal Act" means the Coal Mining and Reclamation Act and the Federal Surface Mining Control and Reclamation Act.

"Conveyance Documents" means those instruments transferring title to the Donated Property from UEI to CEUF described at Exhibit F hereto.

"Division" means the State of Utah Department of Natural Resources, Division of Oil, Gas and Mining.

"Donated Facilities" means the list of buildings and surface facilities donated by UEI to CEUF and described at Exhibit E hereto.

"Donated Property" means all of UEI's right, title and interest to the real property and surface facilities described at Exhibits A and E hereto and as further depicted on the map attached as Exhibit C hereto and the Water Rights described at Exhibit B hereto.

"Effective Date" means the date of this Agreement first set forth above.

"Environmental Law" means all applicable statutes, ordinances, rules, regulations, licenses, permits, orders and other authorizations of all federal, state and local entities having jurisdiction over the Donated Property.

"Horse Canyon Mine" means the underground coal mine located in Carbon County, Utah, and all associated facilities.

"IRC" means the Internal Revenue Code of 1986, as amended.

"Lila Canyon Mine" means the UEI mining operation located near or adjacent to the Donated Property.

"Phase II and Phase III Bond Release" means the release of portions of UEI's Bond on the Horse Canyon Mine in accordance with the Coal Act.

"Post Mine Land Use" means the land use of the Donated Property under the Coal Act.

"Retained Assets" means those assets retained by UEI as set forth at 3.2 of the Agreement.

"State Historic Preservation Officer" or "SHPO" means the Utah Department of Community and Economic Development, Division of State History.

"Water Rights" means those water rights described in Exhibit B.

ARTICLE II
AGREEMENT TO ASSIGN DONATED PROPERTY

2.1 Agreement to Assign. Subject to the terms and conditions of this Agreement, UEI agrees to donate, transfer and assign and CEUF agrees to accept from UEI the Donated Property.

ARTICLE III
ASSETS AND LIABILITIES TO BE ASSIGNED AND RETAINED

3.1 Assets to be Assigned. The assets to be donated, transferred and assigned are referred to as the Donated Property.

3.2 Assets to be Retained. The assets to be retained by UEI are:

(a) Coal and Mineral Rights. UEI reserves its interest, if any, in the coal, oil and gas, coalbed methane and other minerals of whatsoever kind, determination or description located within the following described lands within Emery County, Utah:

Township 16 South, Range 14 East:

Section 3: Lots 1, 3, 7, 8, and 11 (approximately 176.13 acres)

(b) Retained Assets described at Exhibit A. UEI retains the assets described under the column "UEI to Retain Ownership" at Exhibit A hereto.

(c) Redden Spring. UEI reserves all right, title and interest in the Redden Spring Water Right No. 91-5084, as described at Exhibit B hereto, and reserves easements across the Donated Property for access to the Water Rights and construction and operation of water pipelines and diversionary facilities related to use of the Water Rights, until the earlier of 5 years from the Effective Date or release by UEI to CEUF upon replacement of the water supplied by this water right.

(d) Water Replacement. UEI reserves the right to use of the Water Rights described at Exhibit B for UEI's mining purposes or for water replacement purposes as defined in the Coal Act, or for any other regulatory compliance requirement and reserves easements across the Donated Property for access to the Water Rights and construction and operation of water pipelines and diversionary facilities related to use of the Water Rights.

(e) Access for Environmental Monitoring and Bond Release. UEI reserves access to the Donated Property for the purpose of conducting environmental monitoring under applicable Environmental Laws and for purposes of completing activities related to Phase II and Phase III Bond Release.

3.3 Liabilities Assumed by Assignee. With the exception of those liabilities retained by Assignor as described at Section 3.4 herein, Assignee assumes all liabilities and obligations with regard to the Donated Property arising after the Effective Date, including but not limited to those arising under Environmental Laws. To the fullest extent permitted by law, except as specifically provided at § 3.4 herein, Assignee shall and hereby agrees to, as of the Effective Date, indemnify and hold harmless Assignor and its shareholders, directors, officers, agents, employees, attorneys, representatives, successors and assigns, individually and collectively (the "UEI Indemnified Parties") from and against any and all claims, demands, suits, proceedings, damages, losses, liabilities, liens, fines, penalties, claims from indemnification or contribution, and any other matters whatsoever, and all costs and expenses incurred in connection therewith, including attorneys' fees (collectively the "Claims"), arising from ownership and use of the Donated Facilities or Donated Property after the Effective Date, including but not limited to Claims involving bodily injury and death, property damage and environmental conditions of the Donated Facilities or Donated Property. Assignee shall defend all Claims and pay all costs and expenses incidental thereto, but any of the UEI Indemnified Parties shall have the right, at their option, to participate in their own defense through separate counsel without relieving Assignee of any obligation herein. This Section 3.3 shall survive the Effective Date.

3.4 Liabilities Retained by Assignor. UEI retains all liabilities and obligations relating to the Donated Property that arose prior to the Effective Date, including but not limited to those arising under Environmental Laws and permit requirements. Further, UEI retains responsibility for all liabilities of, obligations for, and terms of compliance with: (i) the UPDES

on the Sedimentation Pond described at Exhibit E; (ii) the Bond and associated reclamation activities under the Coal Act necessary to achieve Phase II and Phase III Bond Release; (iii) the Horse Canyon Mine Permit; and (iv) the Lila Canyon Mine Permit (collectively the "Permitted Activities"). To the fullest extent permitted by law, Assignor shall and hereby agrees to, as of the Effective Date, indemnify and hold harmless Assignee and the College of Eastern Utah and their respective directors, officers, agents, employees, attorneys, representatives, successors and assigns, individually and collectively (the "CEUF Indemnified Partners") from and against any and all claims, demands, suits, proceedings, damages, losses, liabilities, liens, fines, penalties, claims for indemnification or contribution and any other matters whatsoever, and all costs and expenses incurred in connection therefore, including attorneys' fees (collectively the "Claims") arising from ownership and use of the Donated Facilities and Donated Property prior to the Effective Date, and after the Effective Date, only as to Claims arising from the Permitted Activities, including but not limited to Claims involving bodily injury and death, property damage and environmental conditions of the Donated Facilities and Donated Property. Assignor shall defend all Claims and pay all costs and expenses incidental thereto, but any of the CEUF Indemnified Parties shall have the right, at their option, to participate in their own defense through separate counsel without relieving Assignor of any objections hereunder. This Section 3.4 shall survive the Effective Date.

ARTICLE IV
REPRESENTATIONS AND WARRANTIES

4.1 Conveyance of Donated Property. UEI is donating, transferring and assigning the Donated Property to CEUF, **"AS IS," "WHERE IS" WITHOUT ANY WARRANTIES OR REPRESENTATIONS AND NEITHER UEI NOR ANY OF ITS DIRECTORS, OFFICERS, EMPLOYEES, AFFILIATES, ATTORNEYS, AGENT OR REPRESENTATIVES HAS MADE OR MAKES ANY WARRANTY OR REPRESENTATION WHATSOEVER REGARDING THE PROPERTY, OR ANY OTHER MATTER IN ANY WAY RELATED TO THE PROPERTY, INCLUDING, BUT NOT LIMITED TO TITLE TO THE DONATED PROPERTY, LEASE, USE, VALUE, ENVIRONMENTAL CONDITION, ACCESS, WETLANDS, OR ANY OTHER CONDITION OF THE PROPERTY OR ANY IMPROVEMENT OR PERSONAL PROPERTY LOCATED THEREON.** This Article 4.1 shall survive the Effective Date.

4.2 Charitable Status of CEUF. CEUF represents and warrants that it is a charitable organization under § 501(c)(3) of the IRC.

ARTICLE V
SCOPE OF WORK ON DONATED PROPERTY

5.1 UEI Scope of Work. UEI shall perform, and as of the Effective Date, represents that it has completed the Scope of Work described at Exhibit D ("Scope of Work").

ARTICLE VI
MINING ON UEI'S ADJACENT PROPERTY

6.1 Acknowledgment of Mining. CEUF acknowledges that UEI intends to conduct coal mining activities at the Lila Canyon Mine adjacent to the Donated Property and waives all claims arising from the impact of such land use on the Donated Property. This Section 6.1 shall survive the Effective Date.

ARTICLE VII
CONVEYANCE OF DONATED PROPERTY

7.1 Assignor's Conveyance Documents. Upon the Effective Date, UEI shall execute, acknowledge and deliver to CEUF quit claim deeds for the Donated Property in the form set forth at Exhibits F and G hereto.

7.2 Assignee's Acknowledgment of Donation. This Agreement serves as CEUF's acknowledgment of UEI's donation, transfer and assignment of the Donated Property to CEUF and confirmation that no goods or services were provided by CEUF in return for UEI's contribution of the Donated Property. Upon UEI's request, CEUF will provide a separate written acknowledgement of UEI's contribution consistent with Section 170(f)(8) of the IRC and Section 1.170A-13(f) of the Income Tax Regulations.

7.3 Covenant Not to Convey. Except as otherwise agreed to by UEI in writing, CEUF hereby agrees that CEUF will not sell, transfer or otherwise convey the Donated Property to any third party other than any successor in interest within twenty-four (24) months after the date the quit claim deeds referenced in Section 7.1 hereto are recorded in the applicable county recorder's office. CEUF acknowledges that, pursuant to applicable federal tax law, any conveyance within such time period may result in adverse tax consequences to UEI. Accordingly, CEUF hereby agrees to indemnify and hold UEI harmless from any increase in federal and state taxes that result from CEUF's breach of this Section 7.3

ARTICLE VIII
MISCELLANEOUS

8.1 Assignment. This Agreement shall not be assigned in whole or part by any party without the prior written consent of the other party, which consent may not unreasonably be withheld.

8.2 Notices. All notices, payments and other communications under this Agreement must be in writing and shall be addressed respectively as follows:

ASSIGNOR: UtahAmerican Energy, Inc.
P.O. Box 986
Price, Utah 84501
Attn: Jay Marshall
Telephone: (435) 637-5511
Facsimile: (425) 675-8840

With copy to:

Snell & Wilmer L.L.P.
15 West South Temple
Suite 1200
Salt Lake City, Utah 84101
Attn: Denise Dragoo, Esq.
Telephone: (801) 257-1998
Facsimile: (801) 257-1800

ASSIGNEE: John Craven, President
College of Eastern Utah Foundation
451 East 400 North
Price, Utah 84501
Telephone: (435) 637-1706

8.3 Expenses and Fees. Each party hereto agrees to pay, without right of reimbursement from the other, the costs incurred by it incident to the preparation of this Agreement, and the fees and disbursements of counsel, accountants and consultants employed by it in connection with the negotiation of this Agreement and the consummation of the transactions contemplated herein.

8.4 Successors and Assigns. Except as otherwise provided herein, this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns.

8.5 Entire Agreement. This Agreement (together with the exhibits hereto, all of which are incorporated herein and made a part hereof by this reference: (i) supersedes any other agreements, whether written or oral, that may have been made or entered into by any of the parties hereto (or by nay director, officer or representative of such parties) relating to the matter contemplated hereby; and (ii) constitutes the entire agreement by and between the parties hereto and there are no representations, warranties, covenants, agreement s or commitments except as expressly set forth herein.

8.6 Survival. CEUF's obligations described in Section 3.3, 6.1, 7.2 and 7.3 and UEI's obligations described in Section 3.4 of this Agreement shall survive any expiration or termination of this Agreement and shall not merge into any deed delivered and accepted upon the consummation of the transaction herein contemplated.

[remainder of page left intentionally blank]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement by their duly authorize representations the day and year first above written.

ASSIGNOR:

UTAHAMERICAN ENERGY, INC.

By: Robert E. Murray

Its: Director

ASSIGNEE:

COLLEGE OF EASTERN UTAH FOUNDATION

By: [signature]

Its: President

EXHIBIT A
to
Asset Assignment Agreement

College of Eastern Utah Foundation
Horse Canyon Project

Legal Description		UEI to Retain Ownership		Donate to College of Eastern Utah Foundation	
	Section	Description	Acres	Description	Acres
T.16S R.14E Emery County Fee Surface	3			Lots 1,3,7,8,11	176.13
	4	S2SW4	80	NW4SE4, SE4SE4	80
	5	SE4SE4	40		
	9	S2NW4, W2SE4	160	NW4NE4, SE4NE4, NE4SE4	120
	10	SE4	160		
	15	SE4NW4, N2NE4, SE4NE4	160		
T.15S R.14E Carbon County Fee Surface	33			S2SE4	80
	34			SW4SW4	40
T.16S R.14E Emery County Fee Simple	3			Lots 5, 6, 12, NW4SW4, S2SW4	240
	4			Lots 8, 9, NE4SE4, SW4SE4	160
	8	NE4NE4	40		
	9	N2NW4	80		
T.16S R.14E Emery County Fee Simple	15	S2NE4, ALSO, Beginning at the NE corner of the NW4SE4, and running thence W 1000 feet; thence SE'ly to a point 500 feet S of beginning; thence N 500 feet to beginning	91.25		
TOTAL			**811.25**		**896.13**

EXHIBIT B
to
Asset Assignment Agreement

DESCRIPTION OF DONATED WATER RIGHTS

(1) Water User's Claim 91-183: Certificate of Appropriation of Water No. 4592, Application No. 20888, Water Users Claim 91-183, dated August 30, 1952, recorded in Book C of Water Rights at Page 259 in the office of the Emery County Recorder, United States Steel Company, appropriator, appropriating eighty thousandths second feet (.08 cfs) from Horse Canyon Creek, Emery County, Utah, for the period from January 1 to December 31, inclusive, for mining purposes, for diversion and use as set forth in the Deed.

(2) Water Right No. 91-5084, to appropriate 5.0 acre-feet of water from Redden Spring, located at a point South 2145 feet and West 330 feet from the NE Corner of Section 3, T16S, R14E, SLBM.

Provided, that Assignor reserves the right to use water from the above-described Water Rights for reclamation and mining purposes or water replacement uses at the Horse Canyon Mine and the Lila Canyon Mine, Emery County and Carbon County, Utah.

EXHIBIT C
to
Asset Assignment Agreement

MAP

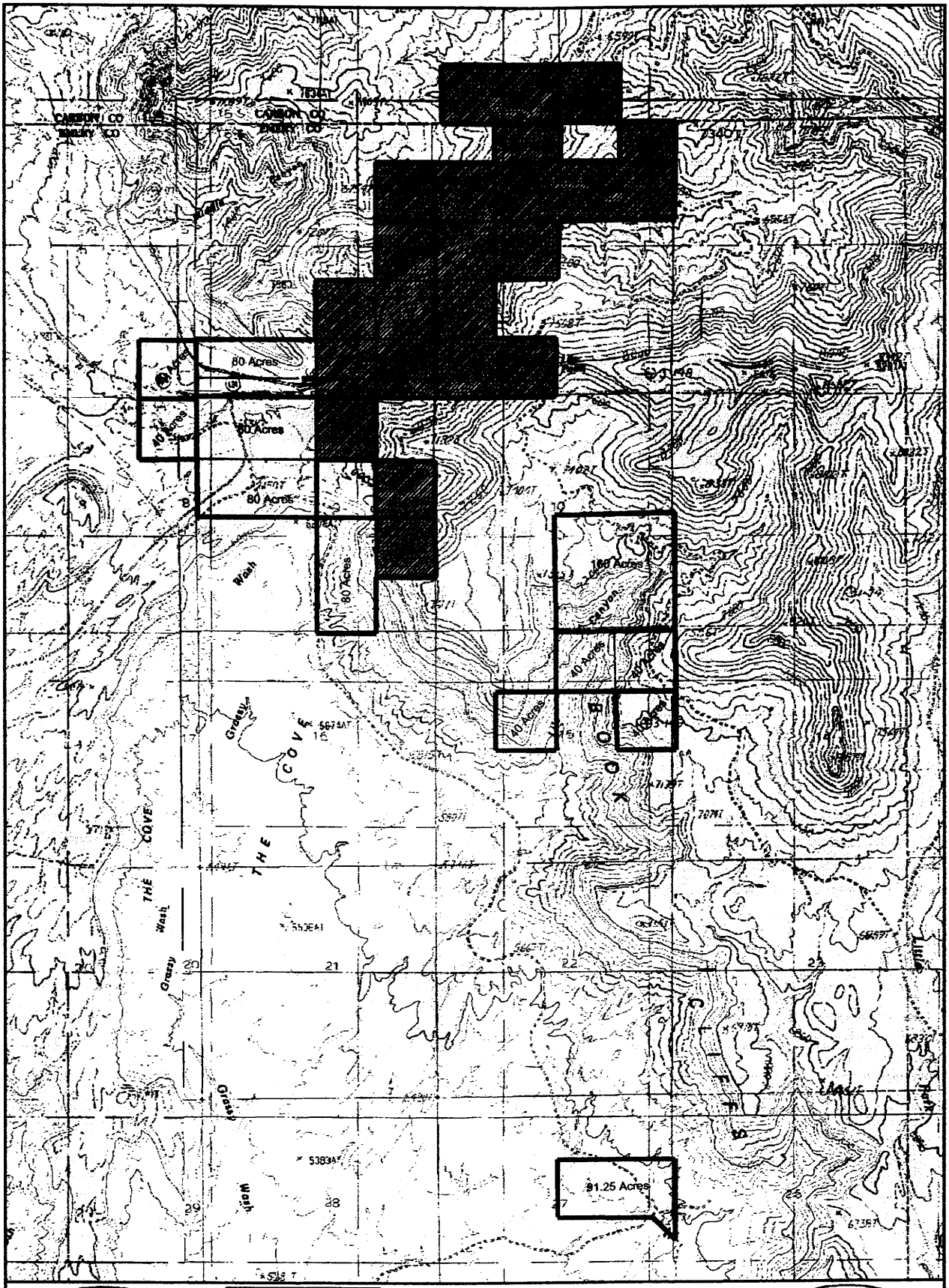
80 Acres
80 Acres
80 Acres
80 Acres
160 Acres
40 Acres
40 Acres
40 Acres
91.25 Acres
THE COVE
Grassy Wash
Grassy
Wash
Canyon
CLIFF
CANYON CO
EMERY CO
SCALE:
1000' 0' 2000'
LEGEND:
REVISIONS
2/17/2003
RJM
Exhibit C

EXHIBIT D
to
Asset Assignment Agreement

Scope of Work

I. Facility Area:

1) Cover all window and door openings. Any damaged or missing plywood panels covering the windows on the following facilities will be replaced with new 3/8" plywood or equivalent.
   A) Office
   B) Bath House
   C) Warehouse
   D) Shop

2) Retain one door opening in each building, preferably in the rear away from traffic. This requirements does not apply to the shop building. The single door retained in each of the three buildings will be steel.

3) Install simple lock on the retained doors.

4) Fill in all grease sumps and underground passage openings in the shop building with sand/gravel material.

5) Remove all equipment & materials not built in, including paper, trash and personal property.

II. Portal Area:

1) Remove and dispose of temporary metal fan housing.

1) Remove both concrete head collars at ground level.

2) Cover remaining concrete with a minimum of 3' of cover material obtained from the existing pad keeping pad as flat as practical.

3) Backfill underground rock dust bin.

NOTE:

a) All concrete and metal will be disposed of in an approved disposal site for non-coal waste. Metal may be salvaged by UEI.

b) All efforts will be made to minimize disturbance of vegetation and soil.

EXHIBIT E
to
Asset Assignment Agreement

LIST OF FACILITIES

The following is a list of facilities at the Horse Canyon Mine to be donated to the College of Eastern Utah Foundation by UtahAmerican Energy, Inc.

1. Sedimentation Pond #2 (including associated drainage features)
2. Pump House
3. Office Building
4. Bath House
5. Warehouse
6. Shop
7. Chain Link Fence
8. Building Pads
9. Parking Lot
10. Powder Magazine
11. Cap Magazine
12. Water Tank
13. Portal Pad

EXHIBIT F
to
Asset Assignment Agreement

QUIT-CLAIM DEED

WHEN RECORDED, RETURN TO:

Ryan Thomas
College of Eastern Utah
451 East 400 North
Price, Utah 84501

Quit-Claim Deed

UTAHAMERICAN ENERGY, INC., a Utah corporation, having an address of P.O. Box 986, Price, Utah 84501 ("Grantor"), for TEN DOLLARS ($10.00) and other good and valuable consideration, receipt of which is hereby acknowledged, hereby conveys and quitclaims to the COLLEGE OF EASTERN UTAH FOUNDATION, a Utah Non-Profit Corporation, having an address of 451 East 400 North, Price, Utah 84501 ("Grantee"), all of its rights, title and interest in the lands in Emery County, Utah, described in Schedule "A" hereto, including the buildings and surface facilities described at Schedule B hereto. The conveyance provided for herein shall not include any rights to water or water shares in connection with said real property.

Grantor reserves such easements and rights of way as necessary for Grantor and its employees and representatives to i) access certain water rights located on said real property and to construct and operate water pipelines and diversionary facilities thereon and compliance as necessary; and ii) to access said real property to conduct environmental compliance, monitoring and reclamation activities.

This instrument is executed and delivered pursuant to that certain Asset Assignment Agreement between the parties dated as of September 13, 2005, the terms and conditions of which shall survive the execution and delivery of this instrument.

DATED this 13 day of September, 2005.

GRANTOR:

UTAHAMERICAN ENERGY, INC.

By Robert G. Murray
Its Director

STATE OF OHIO)
: ss.
COUNTY OF BELMONT)

The foregoing instrument was acknowledged before me this 15th day of July, 2005, by Robert E. Murray on behalf of UtahAmerican Energy, Inc.

Denise L. Jackson
Notary Public
Residing at: 62838 McMillan Rd.
Barnesville, OH 43713

My Commission Expires:

DENISE L. JACKSON
Notary Public
My Commission Expires 2005

SCHEDULE "A"
to
Quit-claim Deed

EMERY COUNTY LANDS

Surface Only:

Township 16 South, Range 14 East:

Section 3: Lots 1, 3, 7, 8, 11 (176.13 acres)
Section 4: NW1/4SE1/4, SE1/4SE1/4 (80 acres)
Section 9: NW1/4NE1/4, SE1/4NE1/4, NE1/4SE1/4 (120 acres)

Fee Simple:

Township 16 South, Range 14 East

Section 3: Lots 5, 6, 12, NW1/4SW1/4, S1/2SW1/4 (240 acres)
Section 4: Lots 8, 9, NE1/4SE1/4, SW1/4SE1/4 (160 acres)

CARBON COUNTY LANDS

Surface Only:

Township 15 South, Range 14 East:

Section 33: S1/2SE1/4 (80 acres)
Section 34: SW1/4SW1/4 (40 acres

SCHEDULE "B"
to
Quit-claim Deed

Buildings and Surface Facilities

1. Sedimentation Pond #2 (including associated drainage features)
2. Pump House
3. Office Building
4. Bath House
5. Warehouse
6. Shop
7. Chain Link Fence
8. Building Pads
9. Parking Lot
10. Powder Magazine
11. Cap Magazine
12. Water Tank
13. Portal Pad

EXHIBIT G
to
Asset Assignment Agreement

WATER RIGHTS DEED

WHEN RECORDED, RETURN TO:

Ryan Thomas
College of Eastern Utah
451 East 400 North
Price, Utah 84501

Water Rights Deed

UTAHAMERICAN ENERGY, INC., a Utah corporation, having an address of P.O. Box 986, Price, Utah 84501 ("Grantor"), for TEN DOLLARS ($10.00) and other good and valuable consideration, receipt of which is hereby acknowledged, hereby conveys and quitclaims to the COLLEGE OF EASTERN UTAH FOUNDATION, a Utah Non-Profit Corporation, having an address of 451 East 400 North, Price, Utah 84501 ("Grantee"), all of Grantor's rights, title and interests in and to the following described water rights, whose points of diversion and place of use are located in Emery County, State of Utah:

1. Water Right No. 91-183: Certificate of Appropriation of Water No. 4592, Application No. 20888, filed July 22, 1949, Water Users Claim 91-183, dated August 30, 1952, recorded in Book C of Water Rights at Page 259 in the office of the Emery County Recorder, appropriating eighty thousandths second feet (.08 cfs) from Horse Canyon Creek, at a point of diversion located South 910 feet West 1305 feet from the East ¼ Corner, Section 4, Township 16 South, Range 14 East, SLBM, Emery County, Utah, for the period from January 1 to December 31, inclusive, for industrial and domestic uses.

2. Water Right No. 91-5084, to appropriate for mining and other uses 5.0 acre-feet of water from Redden Spring, located at a point South 2145 feet and West 330 feet from the NE Corner of Section 3, Township 16 South, Range 14 East, SLBM.

Grantor expressly reserves and retains the use of said water rights for mining and water replacement purposes and reserves all other water and water rights not specifically herein conveyed.

This instrument is executed and delivered pursuant to that certain Asset Assignment Agreement between the parties dated as of September 13, 2005, the terms and conditions of which shall survive the execution and delivery of this instrument.

DATED this 13 day of September, 2005.

GRANTOR:

UtahAmerican Energy, Inc.

By Robert E. Murray
Its Director

STATE OF OHIO)
: ss.
COUNTY OF BELMONT)

The foregoing instrument was acknowledged before me this 15th day of July, 2005, by Robert E. Murray on behalf of UtahAmerican Energy, Inc.

Denise M. Jackson
Notary Public
Residing at: 62838 McMillan Rd.
Barnesville, OH 43713

My Commission Expires:

[illegible]

Appendix III-1-2

Letters to Surface and Subsurface Owners

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

United States Department of The Interior
Bureau of Land Management
Mr. Mike Robinson
125 South 600 West
Price, Utah 84501

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

Dear Mr. Robinson,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

Reclamation of the 51.65 remaining acres was completed in 1991, and meets the requirements of the regulations for post mine land use of Wildlife Habitat, including stabilization of lands, restoration of drainages, and vegetation establishment. After the 1991 reclamation, storm damaged the Road Junction Refuse Pile channel requiring channel repairs including an access road to the channel for a total of 0.49 acres which will remain under Surety #4892.

In summary:
51.56 (acres included in Phase I and Phase II bond releases)
16.18 (acres donated to CEU)
.02 (bridge abutments within Emery County Road ROW)
24.21 (acres included in the Emery County road right of Way)
91.97 Acres

Comments from the legal or equitable owner of record of the surface areas to be affected and from the Federal, Utah and local government agencies should be mailed to: Utah Division of Oil, Gas and Mining, Attention: Pamela Grubaugh-Littig, Permit Supervisor, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

Jay Marshall
Chief Engineer/Project Manager

Enclosure

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

Mr. Bill Krompel
Carbon County Commission
120 East Main St.
Price, utah 84501

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

Dear Commissioner Krompel,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

Reclamation of the 51.65 remaining acres was completed in 1991, and meets the requirements of the regulations for post mine land use of Wildlife Habitat, including stabilization of lands, restoration of drainages, and vegetation establishment. After the 1991 reclamation, storm damaged the Road Junction Refuse Pile channel requiring channel repairs including an access road to the channel for a total of 0.49 acres which will remain under Surety #4892.

In summary:
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16.18 (acres donated to CEU)
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24.21 (acres included in the Emery County road right of Way)
91.97 Acres

Comments from the legal or equitable owner of record of the surface areas to be affected and from the Federal, Utah and local government agencies should be mailed to: Utah Division of Oil, Gas and Mining, Attention: Pamela Grubaugh-Littig, Permit Supervisor, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

College of Eastern Utah Foundation
451 East 400 north
Price, Utah 84501

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

To Whom it May concern,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

Reclamation of the 51.65 remaining acres was completed in 1991, and meets the requirements of the regulations for post mine land use of Wildlife Habitat, including stabilization of lands, restoration of drainages, and vegetation establishment. After the 1991 reclamation, storm damaged the Road Junction Refuse Pile channel requiring channel repairs including an access road to the channel for a total of 0.49 acres which will remain under Surety #4892.

In summary:
51.56 (acres included in Phase I and Phase II bond releases)
16.18 (acres donated to CEU)
.02 (bridge abutments within Emery County Road ROW)
24.21 (acres included in the Emery County road right of Way)
91.97 Acres

Comments from the legal or equitable owner of record of the surface areas to be affected and from the Federal, Utah and local government agencies should be mailed to: Utah Division of Oil, Gas and Mining, Attention: Pamela Grubaugh-Littig, Permit Supervisor, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

Mr. Darrel Lemaster
Castle Valley Special Service District
86 South 100 East
Castle Dale, utah 84513

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

Dear Mr. Lemaster,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

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In summary:
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If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

UtahAmerican Energy, Inc.

January 29, 2008

Department of Natural Resources
Division of Sovereign Lands & Forestry
1594 W. North Temple, Suite 3520
P.O. Box 145703
Salt Lake City, Utah 84114-5703

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

Dear Sirs,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

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In summary:
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91.97 Acres

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If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

Mr. Josiah K. Eardley
2433 S Highway 10
Route 1, Box 119
Price, Utah 84501

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

Dear Mr. Eardley,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

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If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

Mr. Orlando LaFontaine, Mayor
East Carbon City
101 West Geneva Dr.
East Carbon, utah 84520

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

Dear Mayor LaFontaine,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

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In summary:
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If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

Mr. Drew Sitterud
Emery County Commission
95 East Main Street
Castle Dale, utah 84112

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

Dear Mr. Sitterud,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

Reclamation of the 51.65 remaining acres was completed in 1991, and meets the requirements of the regulations for post mine land use of Wildlife Habitat, including stabilization of lands, restoration of drainages, and vegetation establishment. After the 1991 reclamation, storm damaged the Road Junction Refuse Pile channel requiring channel repairs including an access road to the channel for a total of 0.49 acres which will remain under Surety #4892.

In summary:
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Comments from the legal or equitable owner of record of the surface areas to be affected and from the Federal, Utah and local government agencies should be mailed to: Utah Division of Oil, Gas and Mining, Attention: Pamela Grubaugh-Littig, Permit Supervisor, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

Emery County Planning & Zoning Commission
PO Box 727
75 East Main St.
Castle Dale, utah 84513

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

To Whom It May concern,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

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In summary:
51.56 (acres included in Phase I and Phase II bond releases)
16.18 (acres donated to CEU)
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24.21 (acres included in the Emery County road right of Way)
91.97 Acres

Comments from the legal or equitable owner of record of the surface areas to be affected and from the Federal, Utah and local government agencies should be mailed to: Utah Division of Oil, Gas and Mining, Attention: Pamela Grubaugh-Littig, Permit Supervisor, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

Department of Natural Resources
Division of Sovereign Lands & Forestry
1594 W. North Temple, Suite 3520
P.O. Box 145703
Salt Lake City, Utah 84114-5703

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

Dear Sirs,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

Reclamation of the 51.65 remaining acres was completed in 1991, and meets the requirements of the regulations for post mine land use of Wildlife Habitat, including stabilization of lands, restoration of drainages, and vegetation establishment. After the 1991 reclamation, storm damaged the Road Junction Refuse Pile channel requiring channel repairs including an access road to the channel for a total of 0.49 acres which will remain under Surety #4892.

In summary:
51.56 (acres included in Phase I and Phase II bond releases)
16.18 (acres donated to CEU)
.02 (bridge abutments within Emery County Road ROW)
24.21 (acres included in the Emery County road right of Way)
91.97 Acres

Comments from the legal or equitable owner of record of the surface areas to be affected and from the Federal, Utah and local government agencies should be mailed to: Utah Division of Oil, Gas and Mining, Attention: Pamela Grubaugh-Littig, Permit Supervisor, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

UtahAmerican Energy, Inc.

Lila Canyon Project
P. O. Box 986, Price, Utah 84501
Phone: (435) 888-4000
(435) 650-3157
Fax: (435) 888-4002

January 29, 2008

Mr. Bruce Andrews, Mayor
Sunnyside City
701 Market St.
Sunnyside, Utah 84539

Re: Phase III Bond Release, Horse Canyon Mine, DOGM Permit C\007\013

Dear Mayor Andrews,

In accordance with the requirements of R645-301-880.120, UtahAmerican Energy, Inc. (UAE) is notifying the surface land owners and local government body within and adjacent to the Horse Canyon Mine of intention to seek Phase III bond release on those disturbed lands approved for reclamation, and on lands donated to the College of Eastern Utah. The land is described on the attached public notice.

The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres, including 16.18 acres donated to the College of Eastern Utah Foundation. The areas donated to the College of Eastern Utah are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. After Phase III 0.49 acres in Surety #4892 for $5,000 will remain for the Road Junction Refuse Pile channel.

Reclamation of the 51.65 remaining acres was completed in 1991, and meets the requirements of the regulations for post mine land use of Wildlife Habitat, including stabilization of lands, restoration of drainages, and vegetation establishment. After the 1991 reclamation, storm damaged the Road Junction Refuse Pile channel requiring channel repairs including an access road to the channel for a total of 0.49 acres which will remain under Surety #4892.

In summary:
51.56 (acres included in Phase I and Phase II bond releases)
16.18 (acres donated to CEU)
.02 (bridge abutments within Emery County Road ROW)
24.21 (acres included in the Emery County road right of Way)
91.97 Acres

Comments from the legal or equitable owner of record of the surface areas to be affected and from the Federal, Utah and local government agencies should be mailed to: Utah Division of Oil, Gas and Mining, Attention: Pamela Grubaugh-Littig, Permit Supervisor, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

If you have any questions or need additional information, please do not hesitate to contact me at (435) 888-4007, or Pamela Grubaugh-Littig at (801) 538-5268.

Sincerely,

R. Jay Marshall
Chief Engineer/Project Manager

Enclosure

Appendix III-1-3

Public Notice

Public Notice

Application for Phase III Bond Release

Horse Canyon Mine
UtahAmerican Energy , Inc.
Permit C/007/013, Renewed 5/6/2006
Emery County, Utah

Notice is hereby given that UtahAmerican Energy, Inc., 153 Highway 7 South, Powhatan Point, Ohio 43942, with R. Jay Marshall as Resident Agent, P.O. Box 910, East Carbon, Utah 84520, has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for a Phase III bond release on disturbed lands currently in Permit C/007/013 Part "A" pursuant to R645-301-880 and R645-301-400 of the Utah Coal Program Regulations. The permit area is shown on the Cedar and Lila Point U.S. Geological Survey 7.5-minute Quadrangle maps. The permit area affected is located in Emery County and Carbon County, Utah as follows:

Township 16 South, Range 14 East, Salt Lake Base & Meridian

Section 3

Lot 1, 2, 3, 5, 6, 7, 8, 9, 11, 12, N2SW4SW4, SW4SE4, NW4SW4, NE4SW4, N2SE4
SE4SE4

Section 4

SE4NE4, S2SW4, S2SE4NE4, SE4, Lot 9

Section 5

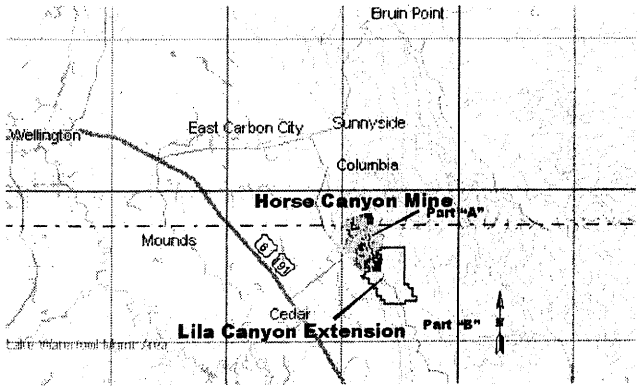
S2SE4SE4

Section 8

NE4NE4

Section 9

NW4NW4, NE4NW4, NW4NE4



The Phase III bond release application is for Surety #4892 for $1,061,328 and covers a total of 91.97 acres. Bond will be retained on approximately .49 acres to cover a small channel. The total amount of bond that will be retained is $5,000, the remainder $1,056,328 on the disturbed acres which meet the requirements of the regulations for post mine land use of Wildlife Habitat, including stabilization of lands, restoration of drainages, and vegetation establishment and will be released.

Reclamation of 51.56 acres was completed in 1991 and were included in Phase I and Phase II bond release. The bond release application includes 16.18 acres donated to the College of Eastern Utah Foundation and are covered under an approved post mine land use change, from Wildlife to Residential/Recreation. In addition the .02 acres within the Emery County Road right of way is included in bond release. The public road known as "The Range Creek Road" (24.21 acres) is included in Phase III bond release and will not be reclaimed. Six acres of the Range Creek Road were included in Phase I and Phase II bond release.

In summary:

51.56 (acres included in Phase I and Phase II bond release)(.49 acres of channel area not included)
16.18 (acres donated to the College of Eastern Utah)
.02 (acres bridge abutments within the Emery County Road right of way)
24.21 (acres included in the Emery County Road Right of Way)
91.97Acres

After Phase III Bond Release .49 acres associated with the channel area will remain.
In addition, 6.5 acres identified as disturbed, was never disturbed, therefore will be removed from the disturbed area.

Written comments, objections and requests for an informal conference on this proposal may be addressed to:

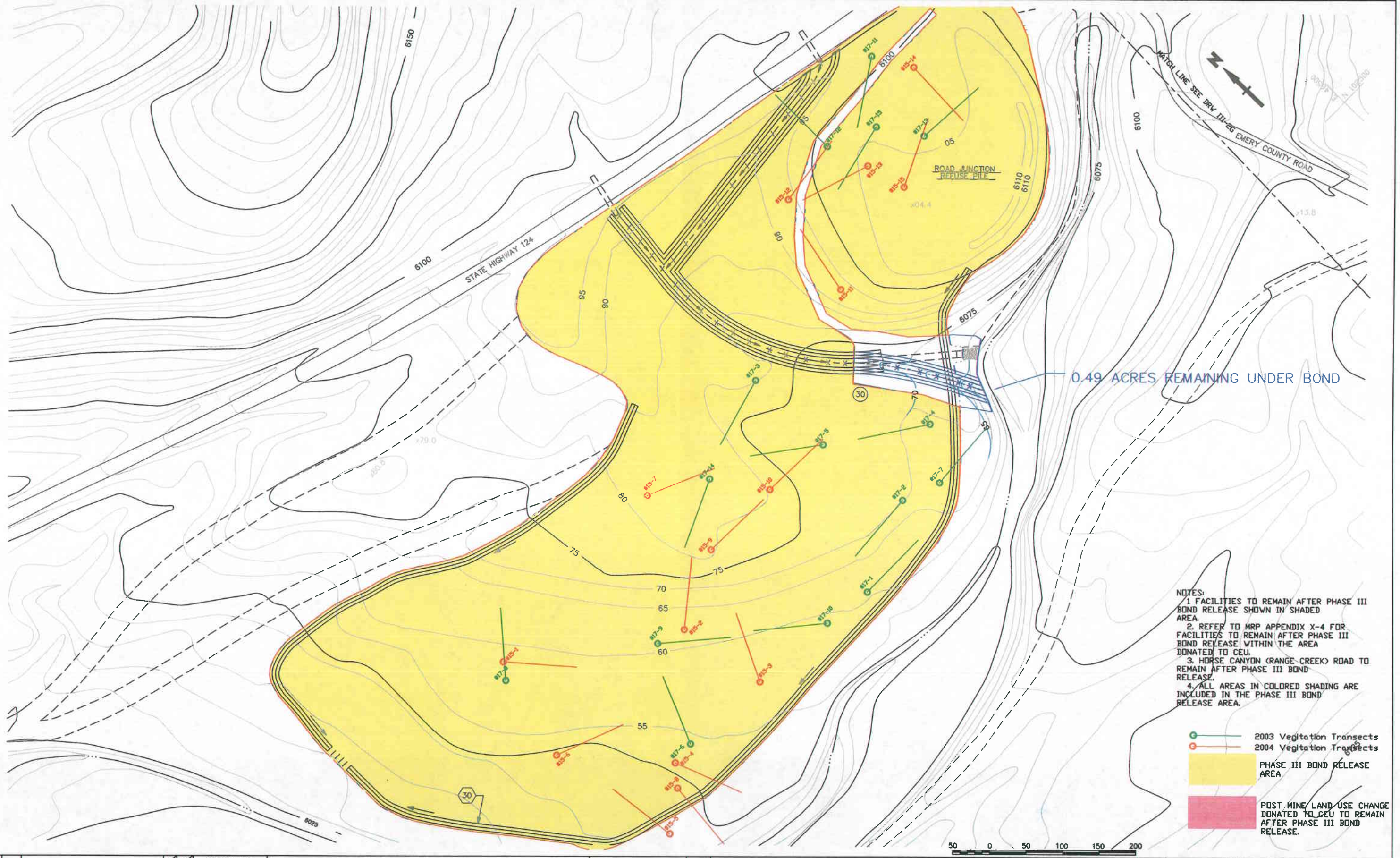
Utah Coal Program
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Closing date for submission of such comments, objections and requests for an informal conference on this proposal must be submitted by _____.

Published in the Sun Advocate - _____, and the Emery County Progress - _____.

Appendix III-1-4

Plates III-2A through III-2G



NOTES:
1. FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE SHOWN IN SHADED AREA.
2. REFER TO MRP APPENDIX X-4 FOR FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE WITHIN THE AREA DONATED TO CEU.
3. HORSE CANYON (RANGE CREEK) ROAD TO REMAIN AFTER PHASE III BOND RELEASE.
4. ALL AREAS IN COLORED SHADING ARE INCLUDED IN THE PHASE III BOND RELEASE AREA.

2003 Vegitation Transects
2004 Vegitation Transects
PHASE III BOND RELEASE AREA
POST MINE LAND USE CHANGE DONATED TO CEU TO REMAIN AFTER PHASE III BOND RELEASE.

NO	DATE	REVISION	BY	APP
2	12/06	ADDED NOTES		
1	7/08	ADDED 0.49 ACRE AREA		

PROFESSIONAL SEAL
REGISTERED PROFESSIONAL ENGINEER
No. 162699
R. JAY MARSHALL
STATE OF UTAH

NOTES
1. FOR LEGEND SEE PLATE V-3, VOL. 3.
2. TOPO BASED ON 1985 AERIAL PHOTO BY INTER MOUNTAIN TECHNICAL SERVICES, INC. OF GRAND JUNCTION, COLORADO.
3. DATUM IS 1929 SEA LEVEL.
4. COORDINATE SYSTEM IS KAISER STEEL LOCAL.
5. INTERIM AND FINAL RECLAMATION TOPOGRAPHY DESIGNED AND DEVELOPED BY ICF KAISER ENGINEERS, INC., 1990-1991.
6. COMPLIANCE TOPOGRAPHY DESIGN AND DEVELOPMENT MODIFIED AND PREPARED BY EARTHFAX ENGINEERING, INC.

		DATE
SCALE: AS SHOWN		
DESIGNED		
DRAWN B.A. GRIMES		10-25-05
CHECKED		
APPROVED		
APPROVED		
BASE MAP:		

UTAHAMERICAN ENERGY, INC.
P.O. BOX 986, PRICE, UTAH 84501

HANSEN, ALLEN & LUCE, INC
Engineers
33 So. CARBON AVE., Suite 21 - PRICE, UTAH 84501

PHASE III BOND RELEASE AREAS
HORSE CANYON MINE

JOB NO. 304.01.100 | DWG.NO. III-2A | REVISION 2

C:\Ula\Correspondance\Submittals\08-010 Response to Phase III deficiencies\ACAD-III_2A_PHASE_III veg transects 2003.dwg, Layout1, 11/3/2008 11:02:53 AM, 12.5

MATCH LINE SEE DWG. III-2C

BORROW AREA

SAMPLES= HC-040191-10, HC-040191-11

STEP

EMERY COUNTY PUBLIC ROAD
REMAINS AFTER PHASE III BOND RELEASE

SEDIMENTATION POND No.1

2003 Vegitation Transects
2004 Vegitation Transects
County Road
NOT RECLAIMED
6.5 ACRES NOT DISTURBED
NOT RECLAIMED
PHASE III BOND RELEASE
AREAS
POST MINE LAND USE CHANGE
DONATED TO CEU TO REMAIN
AFTER PHASE III BOND
RELEASE.

NOTES:
1. REFER TO MRP APPENDIX X-4 FOR FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE WITHIN THE AREA DONATED TO CEU.
3. HORSE CANYON (RANGE CREEK) ROAD TO REMAIN AFTER PHASE III BOND RELEASE.
4. ALL AREAS IN COLORED SHADING ARE INCLUDED IN THE PHASE III BOND RELEASE APPLICTION.

NOTE: THIS MAP WAS DUPLICATED FROM MAP III-1C

50 0 50 100 150 200

NO	DATE	REVISION	APP
3	11/08	REVISED COUNTY ROAD NOTE	
2	7/08	ADDED COUNTY ROAD & 6.5 ACRE AREA	
1	10/06	PHASE III BOND RELEASE	

PROFESSIONAL SEAL
R. JAY MARSHALL
STATE OF UTAH

NOTES
1. FOR ADDITIONAL LEGEND SEE PLATE VI-3, VOL. 3.
2. TOPO BASED ON 1999 AERIAL PHOTO BY INTER MOUNTAIN TECHNICAL SERVICES, INC. OF GRAND JUNCTION, COLORADO.
3. DATUM IS 1929 SEA LEVEL.
4. COORDINATE SYSTEM IS KAISER STEEL LOCAL.
5. INTERIM AND FINAL RECLAMATION TOPOGRAPHY DESIGNED AND DEVELOPED BY KF KAISER ENGINEERS, INC., 1990-1991.
6. COMPLIANCE TOPOGRAPHY DESIGN AND DEVELOPMENT MODIFIED AND PREPARED BY EARTHFAX ENGINEERING, INC.

SCALE	AS SHOWN	DATE
DESIGNED	B.A. GRIMES	10-25-06
DRAWN		
CHECKED		
APPROVED		
DATE MAP		

UTAHAMERICAN ENERGY, INC.
P.O. BOX 986, PRICE, UTAH 84501

HANSEN, ALLEN & LUCE, INC
Engineers

PHASE III BOND RELEASE AREAS
HORSE CANYON MINE

JOB NO. 304.01.100	DWG.NO. III-2B	3

C:\Lila\Correspondance\2
ttals\08-010 Response to Phase III deficiencies\ACAD-III_2B_PHASE_III_veg transects 2003.dwg, Layout1, 11/3/2008 11:20:14 A
1:2.56148

MATCH LINE SEE DWG. III-2B

MATCH LINE SEE DWG. III-2D

NOTES: 1. THIS MAP BASE WAS DUPLICATED FROM MAP II-2C
2. FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE SHOWN IN SHADED AREAS.
3. REFER TO MRP APPENDIX X-4 FOR FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE WITHIN THE AREA DONATED TO CEU.
4. HORSE CANYON (RANGE CREEK) ROAD TO REMAIN AFTER PHASE III BOND RELEASE.
5. ALL AREAS IN COLORED SHADING ARE INCLUDED IN THE PHASE III BOND RELEASE APPLICATION.

CEU DONATION AREA – 1.44 ACRES
REMAINS AFTER PHASE III BOND RELEASE

PROPOSED DIVERSION

WATERSHED 7A

DIVERSION NO. 5

COUNTY ROAD

REMOVE CMP CULVERT

REMOVE CMP CULVERT

REMOVE SPILLWAY AND SECURITY STRUCTURES. LEAVE RIPRAP.

REMOVE RIPRAP

REMOVE CULVERT AND RIPRAP

SEDIMENTATION POND NO. 2
BOT. EL.6332.5

EMERY COUNTY ROAD BRIDGE

EMERY COUNTY PUBLIC ROAD REMAINS AFTER PHASE III BOND RELEASE

0.01 ACRES REMAINING UNDER BOND

EMERY COUNTY BRIDGE ABUTMENT

2003 Vegitation Transects
2004 Vegitation Transects

County Road NOT RECLAIMED

PHASE III BOND RELEASE AREA

POST MINE LAND USE CHANGE DONATED TO CEU TO REMAIN AFTER PHASE III BOND RELEASE

50 0 50 100 150 200

NO	DATE	REVISION	BY	APP
3	12/08	ADDED NOTES	JM	JM
2	7/08	ADDED COUNTY ROAD	JM	JM
1	10/05	PHASE III BOND RELEASE	JM	JM

PROFESSIONAL SEAL
R. GRIMES
R. JAY MARSHALL
STATE OF UTAH

NOTES
1. FOR ADDITIONAL LEGEND SEE PLATE VI-3, VOL. 3.
2. TOPO BASED ON 1995 AERIAL PHOTO BY STEREO MISSION TECHNICAL SERVICES, INC. OF GRAND JUNCTION, COLORADO.
3. DATUM IS 1929 SEA LEVEL.
4. COORDINATE SYSTEM IS KAISER STEEL UTM.
5. INTERIM AND FINAL RECLAMATION TOPOGRAPHY DESIGNED AND DEVELOPED BY ICF KAISER ENGINEERS, INC., 1990-1991.
6. COMPLIANCE TOPOGRAPHY DESIGN AND DEVELOPMENT MODIFIED AND PREPARED BY CENTRAL ENGINEERING, INC.

SCALE	AS SHOWN
DATE	
DRAWN	B.A.GRIMES
DATE	10-15-08
TRACED	
DATE	
CHECKED	
DATE	
APPROVED	
DATE	
MINE MAP	

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P.O. BOX 986, PRICE, UTAH 84501

HANSEN, ALLEN & LUCE, INC
Engineers

PHASE III BOND RELEASE AREAS
HORSE CANYON MINE

JOB NO. | DWG.NO. III-2C | 3

C:\Utah\Correspondence\2...\tals\08-010 Response to Phase III deficiencies\ACAD-III_2C-BOND_RELEASE_veg transects 2003.dwg, Layout1, 11/3/2008 11:21:...
1:2.56148

EMERY COUNTY PUBLIC ROAD
REMAINS AFTER PHASE III BOND RELEASE

CHAIN LINK FENCE

EXISTING COUNTY ROAD

WAREHOUSE BLDG.

MACHINE SHOP BLDG.

PUMP HOUSE

MINE OFFICE BLDG.

BATH HOUSE BLDG.

CEU DONATION AREA 10.80 ACRES
REMAINS AFTER PHASE III BOND RELEASE

MATCH LINE SEE DWG III-2C

MATCH LINE SEE DWG III-2F

NOTES:
1. THIS MAP BASE WAS DUPLICATED FROM MAP III-1D
2. FACILITES TO REMAIN AFTER PHASE III BOND RELEAE SHOWN IN SHADED AREAS.
3. REFER TO MRP APPENDIX X-4 FOR FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE WITHIN THE AREA DONATED TO CEU.
4. HORSE CANYON (RANGE CREEK) ROAD TO REMAIN AFTER PHASE III BOND RELEASE.
5. ALL AREAS IN COLORED SHADING ARE INCLUDED IN THE PHASE III BOND RELEASE APPLICATION.

2003 Vegitation Transects
2004 Vegitation Transects
County Road NOT RECLAIMED
PHASE III BOND RELEASE AREA
POST MINE LAND USE CHANGE DONATED TO CEU TO REMAIN AFTER PHASE III BOND RELEASE

50 0 50 100 150 200

NOTE: THIS MAP BASE WAS DUPLICATED FROM MAP III-1D

NO	DATE	REVISION	BY	APP
3	12/06	ADDED NOTES	BA	
2	7/06	ADDED COUNTY ROAD	BA	
1	10/05	PHASE III BOND RELEASE	BA	

PROFESSIONAL SEAL
No. 152908
R. JAY MARSHALL
REGISTERED PROFESSIONAL ENGINEER
STATE OF UTAH

1. FOR LEGEND SEE PLATE VI-3, VOL. 3.
2. TOPO BASED ON 1985 AERIAL PHOTO BY INTER MOUNTAIN TECHNICAL SERVICES, INC. OF GRAND JUNCTION, COLORADO.
3. DATUM IS 1929 SEA LEVEL.
4. COORDINATE SYSTEM IS KAISER STEEL LOCAL.
5. INTERIM AND FINAL RECLAMATION TOPOGRAPHY DESIGNED AND DEVELOPED BY KF KAISER ENGINEERS, INC., 1990-1991.
6. COMPLIANCE TOPOGRAPHY DESIGN AND DEVELOPMENT MODIFIED AND PREPARED BY EARTHFAX ENGINEERING, INC.

NOTES

SCALE: AS SHOWN
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DRAWN BY: B.A. GRIMES 10-25-05
CHECKED BY:
APPROVED BY:
APPROVED BY:
BASE MAP:

UTAHAMERICAN ENERGY, INC.
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HANSEN, ALLEN & LUCE, INC
Engineers
23 SO. CARBON AVE., Suite 21 - PRICE, UTAH 84501

PHASE III BOND RELEASE AREAS
HORSE CANYON MINE

JOB NO. 304.01.100 | DWG.NO. III-2D | REVISION 3

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MATCH LINE SEE DWG.III-2D

MATCH LINE SEE DWG.III-2F

PORTAL AREA

EMERY COUNTY PUBLIC ROAD
REMAINS AFTER PHASE III BOND RELEASE

CEU DONATION AREA 0.19 ACRES REMAIN
AFTER PHASE III BOND RELEASE

CEU DONATION AREA 2.63 ACRES REMAIN
AFTER PHASE III BOND RELEASE

NOTES:
1. THIS MAP BASE WAS DUPLICATED FROM MAP III-1E
2. FACILITIES TO REMAIN AFTER PHASE III BOND RELEAE SHOWN IN SHADED AREAS.
3. REFER TO MRP APPENDIX X-4 FOR FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE WITHIN THE AREA DONATED TO CEU.
4. HORSE CANYON (RANGE CREEK) ROAD TO REMAIN AFTER PHASE III BOND RELEASE.
5. ALL AREAS IN COLORED SHADING ARE INCLUDED IN THE PHASE III BOND RELEASE APPLICATION.

2003 Vegitation Transects
2004 Vegitation Transects
County Road NOT RECLAIMED
PHASE III BOND RELEASE AREA
POST MINE LAND USE CHANGE DONATED TO CEU TO REMAIN AFTER PHASE III BOND RELEASE

50 0 50 100 150 200

NO	DATE	REVISION	APP
3	12/08	ADDED NOTES	
2	7/09	ADDED COUNTY ROAD	
1	10/09	PHASE III BOND RELEASE	

PROFESSIONAL SEAL
R. JAY MARSHALL
STATE OF UTAH

1. FOR ADDITIONAL LEGEND SEE PLATE III-3, VOL. 3.
2. TOPO BASED ON 1995 AERIAL PHOTO BY INTER MOUNTAIN TECHNICAL SERVICES, INC. OF GRAND JUNCTION, COLORADO.
3. DATUM IS 1929 SEA LEVEL.
4. COORDINATE SYSTEM IS KAISER STEEL LOCAL.
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6. COMPLIANCE TOPOGRAPHY DESIGN AND DEVELOPMENT MODIFIED AND PREPARED BY EARTHFAX ENGINEERING, INC.

NOTES

SCALE: AS SHOWN
DRAWN: B.A. GRIMES
TRACED:
CHECKED:
APPROVED:
DATE: 10-25-09

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Engineers

PHASE III BOND RELEASE AREAS
HORSE CANYON MINE

JOB NO. 304.01.100 | DWG.NO. III-2E | 3

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1:2.56152

MATCH LINE SEE DWG.III-2E

CEU DONATION AREA 0.54 ACRES REMAIN AFTER PHASE III BOND RELEASE

WATER TANK

CEU DONATION AREA 0.49 ACRES REMAIN AFTER PHASE III BOND RELEASE

EMERY COUNTY PUBLIC ROAD TO REMAIN AFTER PHASE III BOND RELEASE.

POWDER MAGAZINE

CAP MAGAZINE

NOTES:

1. THIS MAP BASE WAS DUPLICATED FROM MAP III-1F.
2. FACILITIES TO REMAIN AFTER PHASE III BOND RELEAE SHOWN IN SHADED AREAS.
3. REFER TO MRP APPENDIX X-4 FOR FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE WITHIN THE AREA DONATED TO CEU.
4. HORSE CANYON (RANGE CREEK) ROAD TO REMAIN AFTER PHASE III BOND RELEASE.
5. ALL AREAS IN COLORED SHADING ARE INCLUDED IN THE PHASE III BOND RELEASE AREA.

County Road NOT RECLAIMED

PHASE III BOND RELEASE AREA

POST MINE LAND USE CHANGE DONATED TO CEU TO REMAIN AFTER PHASE III BOND RELEASE

50 0 50 100 150 200

NO	DATE	REVISION	APP
3	12/08	ADDED NOTES	
2	7/08	ADDED COUNTY ROAD	
1	10/06	PHASE III BOND RELEASE	

PROFESSIONAL SEAL

1. FOR ADDITIONAL LEGEND SEE PLATE 10-3, VOL. 3.
2. TOPO BASED ON 1999 AERIAL PHOTO BY INTER MOUNTAIN TECHNICAL SERVICES, INC. OF GRAND JUNCTION, COLORADO.
3. DATUM IS 1929 SEA LEVEL.
4. COORDINATE SYSTEM IS KAISER STEEL LOCAL.
5. INTERIM AND FINAL RECLAMATION TOPOGRAPHY DESIGNED AND DEVELOPED BY KF KAISER ENGINEERS, INC., 1980-1991.
6. COMPLIANCE TOPOGRAPHY DESIGN AND DEVELOPMENT MODIFIED AND PREPARED BY EARTHFAX ENGINEERING, INC.

NOTES

SCALE: AS SHOWN

DESIGNED

DRAWN B.A. GRIMES 10-22-08

TRACED

CHECKED

APPROVED

FILE NAME

DATE

UTAHAMERICAN ENERGY, INC.
P.O. BOX 986, PRICE, UTAH 84501

HANSEN, ALLEN & LUCE, INC
Engineers

PHASE III BOND RELEASE AREAS
HORSE CANYON MINE

JOB NO. 304.01.100 | DWG.NO. III-2F | REVISION 3

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MATCH LINE SEE DWG III-2B

EMERY COUNTY PUBLIC ROAD
TO REMAIN AFTER PHASE III BOND RELEASE

EMERY COUNTY ROAD - HORSE CANYON

ROAD JUNCTION

MATCH LINE SEE DRW. III-2A

EMERY COUNTY ROAD

BORROW AREA

6111.5 ± MATCH POST ROADWAY ELEV.

SITE #6
SAMPLES= HC-040191-12
HC-040191-11

SITE #7
SAMPLES= HC-040191-05
HC-040191-07
HC-040191-06

SITE #8
SAMPLES= HC-040191-04
HC-040191-05

SITE #9
SAMPLES= HC-040191-09
HC-040191-08

SITE #3
NO SAMPLE

SITE #2
SAMPLES= HC-101290-05
HC-101290-06
HC-101290-07

SITE #1
SAMPLES= HC-101290-01
HC-101290-02
HC-101290-03
HC-101290-04

SITE #5
SAMPLES= HC-040191-02
HC-040191-03
HC-101290-08
HC-101290-09
HC-101290-10
HC-101290-11

SITE #4
NO SAMPLE

NOTES:
1. FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE SHOWN IN SHADED AREAS. 2. REFER TO MRP APPENDIX X-4 FOR FACILITIES TO REMAIN AFTER PHASE III BOND RELEASE WITHIN THE AREA DONATED TO CEU.
3. HORSE CANYON (RANGE CREEK) ROAD TO REMAIN AFTER PHASE III BOND RELEASE.
4. ALL AREAS IN COLORED SHADING ARE INCLUDING IN THE PHASE III BOND RELEASE AREA.

6.5 ACRES NOT DISTURBED NOT RECLAIMED

PHASE III BOND RELEASE AREA

2003 Vegitation Transects
2004 Vegitation Transects

50 0 50 100 150 200

NOTE: THIS MAP BASE WAS DUPLICATED FROM MAP III-1G

NO	DATE	REVISION	BY	APP
2	12-05	ADDED NOTES	BA	JB
1	7-05	ADDED COUNTY ROAD & 6.5 ACRE AREA	BA	JB

PROFESSIONAL SEAL
REGISTERED PROFESSIONAL ENGINEER
No. 163880
R. JAY MARSHALL
STATE OF UTAH

1. FOR LEGEND SEE PLATE VI-3, VOL. 3.
2. TOPO BASED ON 1985 AERIAL PHOTO BY INTER MOUNTAIN TECHNICAL SERVICES, INC. OF GRAND JUNCTION, COLORADO.
3. DATUM IS 1929 SEA LEVEL.
4. COORDINATE SYSTEM IS KAISER STEEL LOCAL.
5. INTERIM AND FINAL RECLAMATION TOPOGRAPHY DESIGNED AND DEVELOPED BY KF KAISER ENGINEERS, INC., 1990-1991.
6. COMPLIANCE TOPOGRAPHY DESIGN AND DEVELOPMENT MODIFIED AND PREPARED BY EARTHFAX ENGINEERING, INC.

NOTES

SCALE: AS SHOWN
DESIGNED BY:
DRAWN BY: B.A. GRIMES 5-05
CHECKED BY:
APPROVED BY:
APPROVED BY:
BASE MAP:
DATE

UTAHAMERICAN ENERGY, INC.
P.O. BOX 986, PRICE, UTAH 84501

HANSEN, ALLEN & LUCE, INC
Engineers
23 SO. CARBON AVE., Suite 21 - PRICE, UTAH 84501

PHASE III BOND RELEASE AREAS
HORSE CANYON MINE

JOB NO. 304.01.100 | DWG.NO. III-2G | REVISION 2

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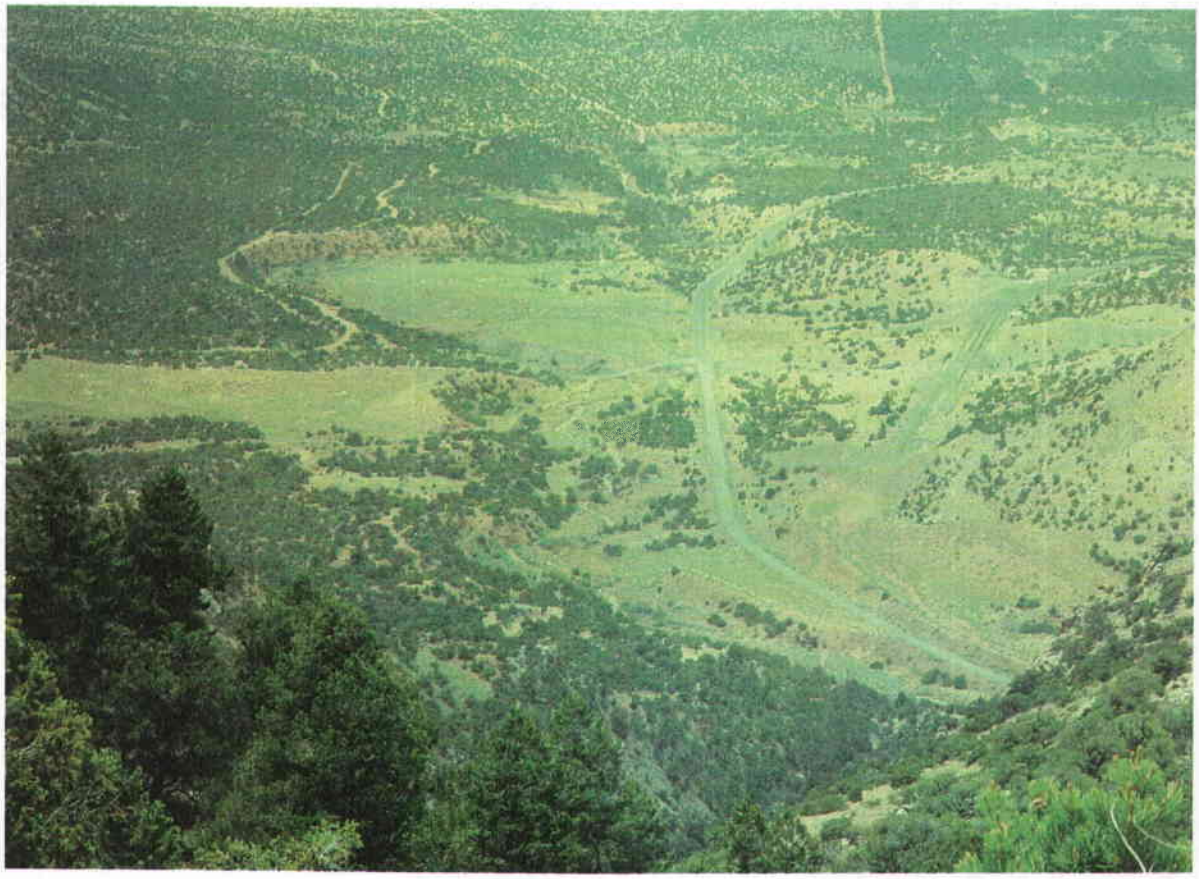
Appendix III-1-5

Horse Canyon Vegetation Survey 2003

Horse Canyon Vegetation Survey - 2003



Submitted by
Mike King, Ph.D.

April 15, 2004

Abstract

A vegetation inventory was conducted on 6 revegetation sites on the Horse Canyon Mine property between June and August, 2003. Data were collected regarding percent cover, percent cover by species, and woody plant density at each site. Data were also collected from a reference site located on Bureau of Land Management property adjacent to mine property. Revegetated sites were compared to the reference area with respect to cover and woody plant density to determine similarity. All sites cover averages exceed the cover average for the reference site and should be judged to have satisfactorily exceeded minimum requirements with respect to cover. Woody plant density in all revegetated sites exceeded woody plant density in the reference area. Species diversity was also higher in all revegetated areas when compared to the reference area.

Table of Contents

List of Tables

Page

Introduction

In June of 2003, Dr. Mike King was contacted by UtahAmerican Energy about conducting a vegetation survey on revegetated sites of the Horse Canyon mine site located in eastern Carbon and Emery counties. Meetings were held between Dr. King and Utah American Energy and the Utah Division of Oil, Gas and Mining to discuss and determine the scope of the project. Fieldwork was initiated in June and continued through August 2003. The purpose of the study was to document vegetation condition of a reference area and 6 representative revegetated sites on the Horse Canyon Mine property. It also was conducted to fulfill the sampling requirement for year 9 of reclamation and to substantiate that the vegetation requirements were met for Phase II bond release.

The project was to include vegetation surveys of 6 revegetated sites and a reference area established in 1985 according to Utah Division of Oil, Gas, and Mining (DOGM) permitting requirements. Data collection was to include percent cover, percent cover by species, woody plant density, and species diversity for each site. Similarity indices were to be calculated between revegetated sites and the reference area to determine if the revegetation efforts have satisfactorily met prescribed revegetation standards determined as part of the Horse Canyon Mine reclamation plan.

Vegetative cover was also determined for 5 sloped areas within the revegetated sites. Data from these sites is detailed in Appendix 5.

The information below includes summary and analyses of these vegetation surveys.

Materials and Methods

Six revegetation sites were selected for analysis based on previous survey work conducted on the mine property in 1995 (Table 1). These areas were selected based on revegetation treatment, slope, aspect, and general topographic similarities. The sites correspond to reclamation treatment areas in the horse Canyon Mine reclamation plan. The reference area, located adjacent to the Horse Canyon mine property on Bureau of Land Management land, was selected several years ago as the revegetation plan was established. The Vegetation Surveys were carried out according to the Division of Oil, Gas and Mining (DOGM) vegetation sampling methods (February 1992 Revised DOGM Vegetation Information Guidelines). Data collected during the surveys were used to determine ground cover, cover by species, and woody plant density. A comparison of the reference areas and revegetated areas was made to determine similarity of the 2 areas.

Table 1. Horse Canyon Vegetation Survey Sites*	
Site Number	**Description**
3	North-facing slope
6	South-facing slope
7	Rabbitbrush treatment; South-facing slope
11,13,14	Flat topography near canyon mouth
16	Borrow pit area
15, 17	Former refuse pile and landfill area
Reference Area	Mature Pinon - Juniper Woodland

* See Appendix 3 for photographs of each site

Percent Cover

The point-intercept method was used to sample cover. A total of 15 - 100 ft sampling transects were run at each revegetation site to determine percent cover. Transects were located using coordinates selected from a random number table. Coordinates were paced off and a compass direction was selected using the random number table as well. Once transect start point and compass direction were established, investigators laid out a 100 ft tape in the appropriate direction and then walked the length of the tape to record vegetation. Investigators took samples at 2ft intervals along the length of the tape. A total of 50 points were recorded for each transect. Similar methods were used in the reference area except 30 transects were run rather than 15.

Cover categories included: 1) Physical Features including a) bare ground (rock or soil material less < 12 inches in diameter), b) litter (dead plant material lying on ground surface), c) rock (rock material >12 inches in diameter), 2) Cryptobiotic Soil, 3) Vegetation including a) shrubs b) forbs and succulents (cactus species), c) grasses, and d) trees. When possible, plants were identified to species level. Points were selected by viewing the transect at 2 foot intervals with an ocular viewing device with cross hairs. When there was an overhead canopy, verticle projections were made above the 100 ft tape to include the highest level of vegetation in the sample.

Adequacy of sample size was determined as per DOGM guidelines (DOGM 1992); see

Table 2. Sample adequacy for cover was met at the 90% confidence level with a 10% change in the mean as required by DOGM. Thirty transects were run in the reference area to meet the sample adequacy of 27 and to be consistent with the vegetation surveys conducted in year 5.

Table 2. Minimum sample sizes		
Area	**Cover**	**Woody Plant Density**
Reference	27.06	171.24
3	1.66	32.64
6	3.93	10.18
7	10.48	74.56
11/13/14	3.16	40.04
15/17	6.36	25.51
16	9.36	34.67

Woody Plant Density

Woody plant densities were estimated using the belt transect method (DOGM 1992). A total of 15 - 100 ft X 10ft transects were run in each area to determine woody plant density. Transects were located using coordinates selected from a random number table. Coordinates were paced off and a compass direction was selected using the random number table as well. Once transect start point and compass direction were established, investigators walked the length of the transect and recorded species of all individual shrubs rooted in each belt. Total number of plants per acre was calculated using DOGM guidelines. Minimum sample sizes for adequacy ranged from 10 to 171 (Table 2). To keep sampling consistent and avoid excessive disturbance to sites, shrub densities were estimated using the minimum of 15 transects as was done in the year 5 Vegetation Survey.

Similarity

Similarity of revegetated sites and the reference area with respect to species composition was determined using the Jaccard's Community Coefficient (DOGM

1992).

Species Diversity

Species diversity lists were compiled based on data collected during cover sampling.

Results

The survey was conducted during one of the driest years in recent history. Annual precipitation at the Sunnyside City Center weather station (approximately 7 miles north of Horse Canyon) and the Price Warehouses weather station (approximately 30 miles west of horse Canyon) was below long-term averages for both sites. The precipitation for the 2003 water year (Oct 1, 2002-Sept 31,2003) was 10.53 inches compared to the 30 year average of 13.87 inches. Similarly annual precipitation for the Price Warehouses station for the 2003 water year was 5.96 inches compared to a 25 year average of 9.3 inches (Utah Climate Center records, Utah State University, Logan, Utah). This pattern is typical of most regions in Utah due to several years of drought throughout the state. This prolonged period of reduced moisture has no doubt had an effect on plant production and survival throughout the state and the eastern Utah area.

Though plant growth was likely limited during the year, there were no signs of disease or insect damage and plants generally appeared to be in good health. Sagebrush die-off as seen around the Price, Utah area was not detected. Moderate numbers of Mormon Crickets were observed above the mine site and the revegetated areas, but none were observed in either the reference area or revegetated areas.

All areas including the reference area had been used during the previous year to some degree by livestock. Cattle sign was found in all areas, though the use was not extensive. Plants showed no signs of overgrazing. It is assumed that the used was limited to the few days livestock operators in the area moved their cattle to and from summer range in the Range Creek area. Mule deer sign was also observed in all revegetated areas as well as the reference area. Chukar partridges were heard in or near area 16 and also near area 15/17.

Percent Cover

Reference Area

Cover data for the Horse Canyon reference area are included in Table 3 (data for each transect are included in Appendix 1). The average vegetation cover for the

Reference area was 32.83%. The vegetative component was comprised of 62.70% trees, 32.10% grasses, 3.00% percent shrubs, and 2.20% forbs and succulents (for relative percent vegetation for each transect see Appendix 1).

Table 3. Horse Canyon Average Cover Summary

Cover Type	Area						
	Ref	3	6	7	11,13,14	15,17	16
Shrubs	1.00	33.07	33.60	49.87	24.80	34.27	15.73
Forbs	0.73	6.53	0.93	1.6	1.33	1.20	8.40
Grasses	10.53	46.53	54.53	25.87	42.80	41.87	42.13
Trees	20.57	0	0	0	0	0	0
Total Vegetation	32.83	86.13	89.07	77.33	72.53	77.33	66.27
Cryptobiotic	5.4	0.13	0.53	0	0.53	0	0.13
Physical Features	60.60	13.73	10.13	22.27	26.93	22.67	33.60

Area 3

The average vegetation cover for Area 3 was 86.13%. The vegetative component was comprised of 38.40% shrubs, 7.60% forbs and succulents, and 54.00% grasses, (Appendix 1; for relative percent vegetation for each transect also see Appendix 1.

Area 6

The average vegetation cover for Area 6 was 89.07%. The vegetative component was comprised of 37.70% shrubs, 1.00% forbs and succulents, and 61.20% grasses, Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

Area 7

The average vegetation cover for Area 7 was 77.33%. The vegetative component was comprised of 64.50% shrubs, 2.10% forbs and succulents, and 33.50% grasses, (Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

Area 11,13,14

The average vegetation cover for Area 11/13/14 was 72.53%. The vegetative component was comprised of 34.20% shrubs, 1.80% forbs and succulents, and 59.00% grasses, (Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

Area 15,17

The average vegetation cover for Area 15/17 was 77.33%. The vegetative component was comprised of 42.00% shrubs, 1.60% forbs and succulents, and 54.10% grasses, (Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

Area 16

The average vegetation cover for Area 16 was 66.27%. The vegetative component was comprised of 23.70% shrubs, 12.70% forbs and succulents, and 63.00% grasses, (Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

In order to meet the revegetation plan success standard, 90% of undisturbed reference area, each site should meet or exceed 24.90% cover. Since all sites cover averages exceed the minimum requirement, it should be judged that the treatments have been satisfactory with respect to percent cover.

Woody Plant Density

Woody plant density data for the Horse Canyon reference area are included in Table 4 (data for each transect are included in Appendix 2).

Table 4. Horse Canyon Woody Plant Densities

Area	Average	90% Confidence Interval
Reference	659.21	518.17 - 800.25
3	1957.30	1687.32 - 2227.28
6	3891.36	3591.86 - 4190.86
7	5180.74	4101.85 - 6295.63
11/13/14	1771.41	1501.08 - 2041.74
15/17	2625.22	2305.44 - 2945.00
16	2883.67	2474.20 - 3293.14
Revegetated Areas Average	2709.84	2080.13 - 3339.55

Reference Area.

The Reference area was the least populated area with respect to woody plants. Including tree species, stems/acre ranged from 87.12 to 1132.56, with an average of 659.21 (90% confidence intervals are also listed in Table 4). The most predominant woody plants in the Reference area were Snakeweed (Gutierrezia sarothrae - 363 stems/acre, 55.1%) and Utah Juniper (Juniperus osteosperma - 246 stems/acre, 37.3%).

Area 3.

Area 3 had an average stems/acre of 1957.30 (90% confidence intervals are listed in Table 4). Individual transect values ranged from 1219.68 - 3441.24. The site was dominated by Sagebrush (Artemisia tridentata - 676.63 stems/acre, 34.6%), Four Wing Saltbush (Atriplex canescens - 662.11 stems/acre, 33.8%), and Douglas Rabbitbrush (Chrysothamnus viscidiflorus - 482.06 stems/acre, 24.6%).

Area 6.

Area 6 had an average stems/acre of 3891.36 (95% confidence intervals are listed in Table 4). Individual transect values ranged from 2744.28 - 4922.28. The site was dominated by Sagebrush (Artemisia tridentata - 1655.28 stems/acre, 42.5%), Four Wing Saltbush (Atriplex canescens - 1228.39 stems/acre, 31.6%), and Douglas Rabbitbrush (Chrysothamnus viscidiflorus - 537.24 stems/acre, 13.8%).

Area 7.

Area 7 had an average stems/acre of 5180.74 (95% confidence intervals are listed in Table 4). Individual transect values ranged from 1873.08 - 11369.16. The site was dominated by Sagebrush (Artemisia tridentata - 3746.16 stems/acre, 72.3%) and Four Wing Saltbush (Atriplex canescens - 816.02 stems/acre, 15.8%).

Area 11,13,14.

Area 11/13/14 had an average stems/acre of 1771.44 (95% confidence intervals are listed in Table 4). Individual transect values ranged from 261.36 - 2482.92. The site was dominated by Sagebrush (Artemisia tridentata - 418.18 stems/acre, 23.6%) and Four Wing Saltbush (Atriplex canescens - 1097.71 stems/acre, 62.0%).

Area 15,17.

Area 15/17 had an average stems/acre of 2625.22 (95% confidence intervals are listed in Table 4). Individual transect values ranged from 1873.08 - 4181.76. The site was dominated by Sagebrush (Artemisia tridentata - 1193.54 stems/acre, 45.5%) and Four Wing Saltbush (Atriplex canescens - 1013.50 stems/acre, 38.6%).

Area 16.

Area 16 had an average stems/acre of 2883.67 (95% confidence intervals are listed in Table 4). Individual transect values ranged from 1418.04 - 4094.64. The site was dominated by Sagebrush (Artemisia tridentata - 1405.54 stems/acre, 48.7%) and Four Wing Saltbush (Atriplex canescens - 958.32 stems/acre, 33.2%).

Average of all Treatment Areas

An average was calculated combining data for all treatment areas. The average woody plant stems/acre when considering all treatment areas was 2709.84. Calculation of a

90% confidence interval indicates that we can be 90% confident that the acutal mean of the population lies between 2080.13 - 3339.55 stems/acre.

With respect to woody plant density, only 2 sites clearly exceeded the standard of 3000 stems/acre established in the revegetation plan for the Horse Canyon area. Area 6 (3891.36) and Area 7 (5180.74) clearly exceeded the 3000 stems/acre standard. Area 15/17 and Area 16 were relatively close to the standard with 90% confidence that the actual mean falls between 2325.22-2945.00 and 2474.20-3293.14 respectively. Areas 3 (1957.30) and 11/13/14 (1771.41) both have averages below 2000. However, when compared to the Reference area (659.21), even areas 3 and 11/13/14 far exceed the undisturbed site with respect to woody plants/acre. Given these data, the woody plant density treatments should be characterized as relatively successful.

Species Diversity

Lists of species for the Reference area and each of the revegetation sites is listed in Table 5. All comparisons show more total species in each of the revegetated sites than in the Reference area.

Table 5. Species Lists for Horse Canyon Inventory Area

Species	Site						
	Ref.	3	6	7	11, 13,14	15/ 17	16
Shrubs							
Artemisia nova			x	x			
Artemisia tridentata		x	x	x	x	x	x
Atriplex canescens		x	x	x	x	x	x
Atriplex confertifolia					x	x	x
Ceratoides lanata			x		x	x	x
Chrysothamnus nauseosus		x	x	x	x	x	x
Chrysothamnus viscidiflorus		x	x	x	x	x	x
Cowania mexicana	x			x			
Ephedra viridis	x						
Gutierrezia sarothrae	x			x			
Sarcobatus vermiculatus					x	x	

Forbs & Succulents							
Echinocereus triglochidiatus	x						
Medicago sativa		x	x	x	x	x	x
Meliotus officinalis		x	x		x	x	
Penstemon palmeri		x	x	x			x
Euphorbia fendleri	x				x	x	
Sisymbrium altissimum			x	x			
Sphaeralcia coccinea	x			x			
Grasses							
Agropyron cristatum		x	x		x	x	x
Agropyron smithii			x	x	x	x	
Agropyron spicatum		x	x	x	x	x	x
Bromus inermis			x		x	x	
Bromus japonicus		x	x		x	x	
Bromus tectorum	x	x	x	x	x	x	x
Elymus cinereus		x	x		x	x	
Elymus gigantius			x		x	x	x
Elymus salinus	x	x	x	x	x	x	
Hilaria jamesii	x						
Oryzopsis hymenoides		x	x	x	x	x	x
Sitanion hystrix		x	x		x	x	x
Stipa comata				x	x	x	
Vulpia octaflora	x	x			x	x	
Trees							
Juniperus osteosperma	x						
Pinus edulis	x						
Total Species in each area	12	16	21	17	23	20	14

Also in each revegetation site there were more species with greater than 5% cover than in the Reference area. The Reference area had a total of 12 species with 2 species, Utah juniper (17%) and Salina wild rye (7%), with percent cover greater than 5%. Only 2 species, 1 tree and 1 grass, exceeded 5%.

Area 3 had a total of 16 species with 5 species, Bluebunch wheatgrass (29.2%), Fourwing saltbush (13.3%), Big sagebrush (13.3%), Basin wild rye (7.1%), and Douglas rabbitbrush (5.1%), with percent cover greater than 5%. Five species, 3 shrubs and 2 grasses, exceeded 5%.

Area 6 had a total of 21 species with 5 species, Cheat grass (27.1%), Bluebunch wheatgrass (22.9%), Fourwing saltbush (18.9%), Big sagebrush (9.9%), and Douglas rabbitbrush (5.5%), with percent cover greater than 5%. Five species, 3 shrubs and 2 grasses (one of the grasses was the undesirable Cheat grass), exceeded 5%.

Area 7 had a total of 17 species with 4 species, Cheat grass (22.1%), Bluebunch wheatgrass (22.0%), Fourwing saltbush (12.4%), and Big sagebrush (24.9%), with percent cover greater than 5%. Four species, 2 shrubs and 2 grasses (one of the grasses was the undesirable Cheat grass), exceeded 5%.

Area 11/13/14 had a total of 23 species with 4 species, Cheat grass (15.7%), Bluebunch wheatgrass (20.8%), Fourwing saltbush (14.1%), and Big sagebrush (5.7%), with percent cover greater than 5%. Four species, 2 shrubs and 2 grasses (one of the grasses was the undesirable Cheat grass), exceeded 5%.

Area 15/17 had a total of 20 species with 4 species, Cheat grass (19.1%), Bluebunch wheatgrass (18.9%), Fourwing saltbush (14.1%), and Big sagebrush (15.1%), with percent cover greater than 5%. Four species, 2 shrubs and 2 grasses (one of the grasses was the undesirable Cheat grass), exceeded 5%.

Area 16 had a total of 14 species with 4 species, Cheat grass (6.5%), Bluebunch wheatgrass (28.5%), Fourwing saltbush (5.6%), and Alfalfa (6.7%), with percent cover greater than 5%. Four species, 1 shrub, 2 grasses (one of the grasses was the undesirable Cheat grass), and 1 forb (alfalfa), exceeded 5%.

Species diversity with respect to percent cover by species is recorded in Table 6 for each site.

Table 6. Species Diversity Tables			
Reference Area (12 total species)		**Area 3 (16 total species)**	
	Species (% cover)		**Species (% cover)**
> 20 %		> 20%	Agropyron spicatum (29.2)
10 - 20%	Juniperus osteosperma (17.0)	10 - 20%	Atriplex canescens (13.3)
			Artemisia tridentata (13.3)
5 - 10 %	Elymus salinus (7.0)	5 - 10 %	Elymus cinereus (7.1)
			Chrysothamnus viscidiflorus 5.1)
1 - 5%	Pinus edulis (4.0)	1 - 5%	Bromus tectorum (4.1)
	Bromus tectorum (2.0)		Medicago satvia (3.5)
	Gutierezzia sarothrae (1.0)		Meliotus officianalis (1.6)
	Hilaria jamesii (1.0)		Agropyron cristatum (1.5)
	Sphaeralcia coccinea (1.0)		Chrysothamnus nauseosus (1.2)
			Sitanion hystrix (1.1)
< 1%	Vulpia octaflora (0.3)	< 1%	Oryzopsis hymenoides (0.9)
	Epehdra viridis (0.2)		Penstemon palmeri (0.8)
	Euphorbia fendleri (0.1)		Bromus japonicus (0.3)
	Cowania mexicana (0.1)		Elymus salinus (0.3)
	Echinocereus triglochidiatus (0.1)		Vulpia octaflora (0.1)

Table 6. Species Diversity Tables (cont.)			
Area 6 (21 total species)		**Area 7 (17 total species)**	
	Species (% cover)		**Species (% cover)**
> 20 %	Bromus tectorum (27.1)	> 20%	Artemisia tridentata (24.9)
	Agropyron spicatum (22.9)		Bromus tectorum (22.0)
10 - 20%	Atriplex canescens (12.4)	10 - 20%	Atriplex canescens (18.9)
5 - 10 %	Artemisia tridentata (9.9)	5 - 10 %	
	Chrysothamnus viscidiflorus (5.5)		
1 - 5%	Artemisia nova (1.9)	1 - 5%	Chrysothamnus viscidiflorus (4.0)
	Ceratoides lanata (1.6)		Agropyron spicatum (2.0)
			Artemisia nova (1.1)
< 1%	Elymus cinereus (0.8)	< 1%	Stipa comata (0.9)
	Oryzopsis hymenoides (0.7)		Elymus salinus (0.7)
	Chrysothamnus nauseosus (0.5)		Sisymbrium altissimum (0.5)
	Penstemon palmeri (0.4)		Medicago sativa (0.5)
	Elymus gigantius (0.3)		Sphaeralicia coccinea (0.3)
	Elymus salinus (0.3)		Cowania mexicana (0.3)
	Sitanion hystrix (0.3)		Oryzopsis hymenoides (0.3)
	Sisymbrium altissima (0.3)		Gutierrezia sarothrae (0.1)
	Bromus japonicus (0.1)		Penstemon palmeri (0.1)
	Bromus inermis (0.1)		Chrysothamnus nauseosus (0.1)
	Agropyron cristatum (0.1)		Agropyron smithii (0.1)
	Agropyron smithii (0.1)		
	Medicago satvia (0.1)		
	Meliotus officianalis (0.1)		

Table 6. Species Diversity Tables (cont.)			
Area 11/13/14 (23 total species)		**Area 15/17 (20 total species)**	
	Species (% cover)		**Species (% cover)**
> 20 %	Agropyron spicatum (20.8)	> 20%	
10 - 20%	Bromus tectorum (15.7)	10 - 20%	Bromus tectorum (19.1)
	Atriplex canescens (14.1)		Agropyron spicatum (18.9)
			Artemisia tridentata (15.1)
			Atriplex canescens (14.1)
5 - 10 %	Artemisia tridentata (5.7)	5 - 10 %	
1 - 5%	Chrysothamnus nauseosus (2.4)	1 - 5%	Sarcobatus vermiculatus (2.1)
	Atriplex confertifolia (1.7)		Chrysothamnus nauseosus (1.1)
	Chrysothamnus viscidifloris (1.6)		
	Gutierezzia sarothrae (1.6)		
	Oryzopsis hymenoides (1.3)		
< 1%	Medicago sativa (0.8)	< 1%	Stipa comata (0.9)
	Ceratoides lanata (0.7)		Oryzopsis hymenoides (0.8)
	Agropyron ciristatum (0.7)		Elymus cinereus (0.7)
	Elymus cinerius (0.7)		Medicago sativa (0.7)
	Agropyron smithii (0.5)		Elymus salinus (0.5)
	Elymus gigantius (0.5)		Ceratoides lanata (0.4)
	Sitanion hystrix (0.5)		Meliotus officianalis (0.4)
	Elymus salinus (0.4)		Atriplex confertifolia (0.4)
	Stipa comata (0.4)		Agropyron smithii (0.3)
	Vulpia octaflora (0.3)		Bromus japonicus (0.3)
	Bromus inermis (0.1)		Sphaeralcia coccinea (0.1)
	Bromus japonicus (0.1)		Gutierrezia sarothrae (0.1)
	Medicago officianalis (0.1)		Chrysothamnus viscidifloris (0.1)
	Euphorbia fendleri (0.1)		Bromus inermis (0.1)

Table 6. Species Diversity Tables (cont.)	
Area 16 (14 total species)	
	Species (% cover)
> 20 %	Agropyron spicatum (28.5)
10 - 20%	
5 - 10 %	Medicago satvia (6.7)
	Bromus tectorum (6.5)
	Atriplex canescens (5.6)
1 - 5%	Artemisia tridentata (4.7)
	Chrysothamnus nauseosus (1.6)
	Elymus gigantius (1.2)
	Atriplex confertifolia (1.1)
< 1%	Penstemon palmeri (0.4)
	Chrysothamnus viscidifloris (0.1)
	Ceratoides lanata (0.1)
	Oryzopsis hynmenoides (0.1)
	Agropyron cristatum (0.1)
	Sitanion hystrix (0.1)

Targets for revegetated areas were to have 3 shrubs, 2 grasses, and 1 forb with % cover above 5%. These targets are not reached with respect to forbs in any area with the exception of Area 16. However, the forb which exceeded 5% cover was alfafa, part of the revegetation seed mixture, but not a native species and probably should not be considered.

Similarity

Comparisons of similarity made between the Reference area and revegetated sites indicates that there are only minor similarities between the revegetated sites and the Reference area (Table 7). Similarity coefficients ranged from 4.0 to 20.8. Similarity is strong when values approach 100. Given the revegetation treatments, it is not surprising

that the areas are dissimilar with respect to species.

Table 7. Similarity Comparisons - Cover

Site	Number of Species in Reference Area	Number of Species in Revegetation Site	Number of Species Common to both	Similarity Coefficient
Area 3	12	16	3	12.0
Area 6	12	21	2	6.5
Area 7	12	17	5	20.8
Area 11/13/14	12	23	3	9.4
Area 15/17	12	20	4	14.3
Area 16	12	14	1	4.0

Areas were also different with respect to overall vegetation cover. In each instance, the revegetated areas were more densely vegetated than the reference area. The average percent cover for the Reference area was 32.83%. Percent vegetation cover for the revegetation sites ranged from 66.27% to 89.07% (Table 3).

References

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Welsch, S. L. and G. Moore. 1973. Utah Plants. Brigham Young University Press. Provo, UT. 474 pp.

Utah Climate Center. January 2004. Utah State University, Logan, Utah.

Appendix 1

Percent Cover Data

Appendix 2

Woody Plant Density Data

Appendix 3

Diversity and Similarity Data

Appendix 4

Site Photographs

Appendix 5

Sloped Areas Cover Data

Reference Cover Summary

Cover Type	Transect #														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Shrubs	0	2	2	0	0	0	2	0	4	4	2	0	2	0	0
Forbs	0	0	0	2	2	0	0	0	16	0	0	0	0	0	0
Grasses	12	26	8	4	8	0	0	6	0	2	14	26	14	4	6
Trees	8	6	10	34	16	46	52	12	0	20	16	6	28	20	18
Total Vegetation	20	34	20	40	26	46	54	18	20	26	32	32	44	24	24
Cryptobiotic	0	8	4	4	6	2	6	0	12	0	4	10	10	2	0
Physical Features	80	58	76	56	52	52	40	82	68	74	64	58	46	74	76

Cover Type	Transect #															Site Average	Std. Dev.
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Shrubs	2	4	0	0	0	2	0	0	0	2	0	0	0	2	0	1.00	1.36
Forbs	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0.73	2.95
Grasses	10	10	4	12	4	8	4	6	0	54	42	16	4	6	6	10.53	12.19
Trees	18	16	30	12	34	46	34	16	18	0	18	28	26	30 ~~15~~	14	21.07 ~~20.57~~	13.03
Total Vegetation	30	30	34	28	38	56	38	22	18	56	60	46	30	38	20	33.47	12.27
Cryptobiotic	2	2	10	2	4	4	10	16	6	6	4	4	6	10	8	5.4	4.01
Physical Features	68	68	56	70	58	40	52	62	76	38	36	50	64	52	72	60.60	13.08

Reference Area Cover Data

Horse Canyon Cover Sheet

Date:6/16/03 | Area:Ref | Transect:1 | UTM:0883874/4398061 | Heading:70

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																		0	0	0
Atriplex confertifolia																																																	0	0	0
Atriplex cuneata																																																	0	0	0
Artemisia nova																																																	0	0	0
Artemisia tridentata tridentata																																																	0	0	0
Chrysothamnus nauseosus																																																	0	0	0
Chrysothamnus viscidiflorus																																																	0	0	0
Cowania mexicana																																																	0	0	0
Ceratoides lanata																																																	0	0	0
Ephedra viridis																																																	0	0	0
Sarcobatus vermiculatus																																																	0	0	0
Gutierrezia sarothrae																																																	0	0	0
																																																	0	0	
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forbs & Succulents																																																				
Machaeranthera canescens																																																				
Medicago sativa																																																	0	0	0
Melilotus officinalis																																																	0	0	0
Penstemon palmeri																																																	0	0	0
Sphaeralcia coccinea																																																	0	0	0
Stephanomeria tenuifolia																																																	0	0	0
																																																	0	0	
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grassland																																																				
Agropyron Smithii																																																				
Agropyron spicatum																																																		0	0	0
Agropyron cristatum																																																		0	0	0
Agropyron trachycaulum																																																		0	0	0
Bromus tectorum																																																		0	0	0
Elymus Salinus		1											1								1				1																								3	0	0
Elymus cinereus																																		1					1											5	10	50
Elymus gigenteus																																																		0	0	0
Hilaria Jamesii																																																		0	0	0
Oryzopsis hymenoides																																																		0	0	0
Stanion hystrix																																																		0	0	0
Stipa comata																																																		0	0	0
Bromus inermes																									1																											1	2	10
																																																		0	0	
Total Grassland Cover	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	6	12	60
Trees																																																				
Juniper																																									1				1	1					4	8	40
Pinon																																																		0	0	0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	4	8	40
Total Vegetation Cover	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	10	20	100
Cryptobiotic																																																		0	0	
Physical Features																																																			
Litter					1																																														1	2	
Rock																			1	1		1								1											1										7	14	
Bare Ground	1		1	1	1		1	1	1	1	1	1		1	1	1	1	1				1		1			1	1	1		1	1	1	1	1	1	1		1			1	1				1	1		32	64	
Total Physical Features	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1	0	0	1	1	1	1	0	49	98	
Comments:																																																				

Horse Canyon Cover Sheet

Date:6/18/03 | Area:Ref | Transect:2 | UTM:0[illegible]4M[illegible]40 | Heading:89

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																		0	0	0
Atriplex confertifolia																																																	0	0	0
Atriplex cuneata																																																	0	0	0
Artemisia nova																																																	0	0	0
Artemisia tridentata tridentata																																																	0	0	0
Chrysothamnus nauseosus																																																	0	0	0
Chrysothamnus viscidiflorus																																																	0	0	0
Coleania mexicana																																																	0	0	0
Ceratoides lanata																																																	0	0	0
Ephedra viridis																																																	0	0	0
Sarcobatus vermiculatus																																																	0	0	0
Gutierrezia sarothrae																																																1	0	0
																																																1	1	2	5.882352941
																																																			0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	5.882352941	0
Forbs & Succulents																																																					0
Machaeranthera canescens																																																					0
Medicago sativa																																																		0	0	0
Melilotus officinalis																																																		0	0	0
Penstemon palmeri																																																		0	0	0
Sphaeralcia coccinea																																																		0	0	0
Sisymbrium altissimum																																																		0	0	0
																																																	0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grasslike																																																				0
Agropyron Smithii																																																					0
Agropyron spicatum																																																					0
Agropyron cristatum																																																					0	0	0
Agropyron trachycaulum																																																					0	0	0
Bromus tectorum																																																					0	0	0
Elymus Salinus	1	1								1																																										0	0	0
Elymus cinereus				1									1	1	1					1	1		1																													3	9	17.64705882
Elymus glaucifolius																																			1	1	1															10	30	58.82352941
Galeta Grass																																																				0	0	0
Hilaria Jamesii																																																				0	0	0
Oryzopsis hymenoides																																																				0	0	0
Stanion hystrix																																																				0	0	0
Stipa comata																																																				0	0	0
																																																			0	0	0
Total Grasslnoid Cover	0	1	1	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trees																																																			13	26	76.47058824
Juniper																																																					0
Pinon								1	1																																				1						3	6	17.64705882
Total Tree Cover																																																			0	0	0
	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	3	0
Total Vegetation Cover																																																			3	6	17.64705882
	0	1	1	1	0	0	0	1	1	1	0	0	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	17	34	0
Cryptobiotic																																																					100
Physical Features																																																					4	8	
Litter																																																						
Rock							1											1									1	1	1	1	1	1	1																						
Bare Ground						1				1											1			1																													12	24	
	1				1						1					1	1								1																											7	14	
Total Physical Features																																																					19	38	
Comments:	1	3	3	3	1	1	1	3	3	3	1	1	3	3	3	1	1	1	3	3	1	3	1	1	1	1	1	1	1	1	1	1	3	3	3	1	1	1	1	1	1	3	1	1	1	1	1	3			89	50	
																																																				100	

Horse Canyon Cover Sheet

Date:8/16/03 | Area:Ref | Transect:2 | UTM:[illegible] | Heading:89

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Coverie mexicana																																																			0	0	0
Cerstoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																		1	1	2	5.882352941
																																																						0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	5.882352941
																																																					0
Forbs & Succulents																																																						0
Mechaeranthera canescens																																																						0
Medicago sativa																																																						0
Melilotus officinalis																																																						0
Penstemon palmeri																																																						0
Sphaeralcia coccinea																																																						0
Stanleya elbaimum																																																						0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Graminoid																																																					0
Agropyron Smithii																																																						0
Agropyron spicatum																																																						0
Agropyron cristatum																																																						0
Agropyron trachycaulum																																																						0
Bromus tectorum																																																						0
Elymus Salinus		1	1							1																																										3	8	17.64705882
Elymus cinereus				1									1	1	1					1	1		1														1	1	1													10	26	58.82352941
Elymus glaucus																																																						0
Hilaria Jamesii																																																						0
Oryzopsis hymenoides																																																						0
Stanleya hyssifolia																																																						0
Stipa comata																																																						0
																																																					0
Total Graminoid Cover	0	1	1	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	26	76.47058824
Trees																																																						0
Juniper																																																						0
Pinon								1	1																																												3	8	17.64705882
																																																					0
Total Tree Cover	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	8	17.64705882
																																																					0
Total Vegetation Cover	0	1	1	1	0	0	0	1	1	1	0	0	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	17	34	100
																																																					0
Cryptobiotic																																																						0
																																																						0
Physical Features																																																						0
Litter																																																						0
Rock								1																																														0
Bare Ground						1					1							1				1			1			1	1	1	1	1	1	1					1				1						1			12	24	
	1				1							1				1	1							1																												7	14	
Total Physical Features																																																					10	20	
Comments:	1	3	3	3	1	1	1	3	3	3	1	1	3	3	3	1	1	1	3	3	1	3	1	1	1	1	1	1	1	1	1	1	3	3	3	1	1	1	1	3	1	1	1	3	1	1	1	1	1	3			
																																																					99	

Horse Canyon Cover Sheet

Date:6/16/09 | Area:Ref | Transect:3 | UTM:0563894/4439099 | Heading:282

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Coleria mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																					1																															1	2	10
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	10
Forbs & Ivamalgrie																																																						
Machaeranthera canescens																																																						
Medicago sativa																																																				0	0	0
Melilotus officinalis																																																				0	0	0
Penstemon palmeri																																																				0	0	0
Sphaeralcia coccinea																																																				0	0	0
Sisymbrium altissimum																																																				0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Graminoid																																																					
Agropyron Smithii																																																					
Agropyron spicatum																																																				0	0	0
Agropyron cristatum																																																				0	0	0
Agropyron trachycaulum																																																				0	0	0
Bromus tectorum																																																				0	0	0
Elymus Salinus																	1	1																																		0	0	0
Elymus cinereus																																																			1	3	8	30
Elymus glaucus																																																				0	0	0
Hilaria Jamesii																											1																									0	0	0
Oryzopsis hymenoides																																																				1	2	10
Stipa comata																																																				0	0	0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	40
Trees																																																					
Juniper			1	1	1																																																
Pinon																																																			1	1	5	10	50
Total Tree Cover	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	5	10	50
Total Vegetation Cover	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	19	20	100
Cryptobiotic																		1																				1															2	4	
Physical Features																																																					
Litter							1																																														
Rock	1									1						1																			1			1			1	1			1	1	1	1				9	18	
Bare Ground		1				1		1	1		1	1	1	1	1					1		1		1	1	1	1			1	1	1	1														1	1			9	12	
Total Physical Features																																						1														25	46	
	1	1	3	3	3	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	3	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3		
Comments:																																																				100		

Horse Canyon Cover Sheet

Date:8/16/03 | Area:Ref | Transect:4 | UTM:0683630/4389139 | Heading:137

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																			0		0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Forbs & Rangeland																																																						0
Mechaeranthera canescens																																																					0
Medicago sativa																																																				0	0	0
Melilotus officinalis																																																				0	0	0
Penstemon palmeri																																																				0	0	0
Sphaeralcia coccinea	1																																																			1	2	5
Stanleya elatinum																																																				0	0	0
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5
Graminoid																																																					
Agropyron Smithii																																																					
Agropyron spicatum																																																				0	0	0
Agropyron cristatum																																																				0	0	0
Agropyron trachycaulum																																																				0	0	0
Bromus tectorum																																																				0	0	0
Elymus Salinus										1																																										0	0	0
Elymus cinereus																																		1																			2	4	10
Elymus gigenteus																																																				0	0	0
Hilaria Jamesii																																																				0	0	0
Oryzopsis hymenoides																																																				0	0	0
Stanton hystrix																																																				0	0	0
Stipa comata																																																				0	0	0
																																																				0		0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	10
Trees																																																					
Juniper															1	1	1	1	1	1	1	1																														0	0	0
Pinon																																	1	1	1	1	1	1													15	30	75
																																											1	1							2	4	10
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	17	34	85
																																																			0	0
Total Vegetation Cover	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	20	40	100
																							1																															
Cryptobiotic																																																			1	2	4
Physical Features																																																					
Litter				1																																																
Rock					1																						1	1					1		1																	3	6	
Bare Ground		1	1			1	1	1	1	1		1	1	1	1								1	1	1			1	1	1	1															1	1				1		1	4	8	
																																												1	1					1		1	21	42	
Total Physical Features																																																				30	59	
	3	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	3	1	3	3	3	3	3	1	1	3	3	3	1	1	1	1			
Comments:																																																				100		

Horse Canyon Cover Sheet

Date:8/18/03 | Area:Ref | Transect:6 | UTM:0883618N4389139 | Heading:181

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Coweria mexicana																																																			0	0	0
Cerstoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																				0		0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Forbs																																																						
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcia coccinea				1																																															0	0	0
Stenotrium oligotrum																																																			1	2	7.692307692
																																																			0	0	0
Total Forb Cover	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0
																																																	1	2	7.692307692
Graminoid																																																					
Agropyron Smithii																																																					0		0
Agropyron spicatum																																																				0	0	0
Agropyron cristatum																																																				0	0	0
Agropyron trachycaulum																																																				0	0	0
Bromus tectorum																																																				0	0	0
Elymus Salinus									1	1	1	1																																									0	0	0
Elymus cinereus																																																				4	8	30.76923077
Elymus gigantieus																																																				0	0	0
Hilaria Jamesii																																																				0	0	0
Oryzopsis hymenoides																																																				0	0	0
Sitanion hystrix																																																				0	0	0
Stipa comata																																																				0	0	0
																																																				0		0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	30.76923077
Trees																																																						0		0
Juniper																																																					0		0
Pinon																																							1	1	1			1	1	1	1	1				8	16	61.53846154
																																																			0	0	0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	0	0	0			0
																																																		8	16	61.53846154
Total Vegetation Cover	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	0	0	0			0
																																																		15	29	100
Cryptobiotic	1																1	1																																							
																																																			3	6	
Physical Features																																																						
Litter																																																						
Rock																			1																			1																1	2	
Bare Ground		1	1		1	1	1	1					1	1	1	1	1				1	1	1	1	1	1	1	1	1	1		1	1	1	1			1	1				1	1					1	1	7	14	
																																																			26	52	
Total Physical Features																																																				34	68	
	1	1	1	3	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	1	1	3	3	3	3	3	1	1	1			
Comments:																																																				100		

Horse Canyon Cover Sheet																																																					
Date:6/16/09	Area:Ref						Transect:6								UTM:0583539/4306070																		Heading:3																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																					0
																																																					0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Forbs & Succulents																																																					0
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcia coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																					0
Agropyron Smithii																																																			0	0	0
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus																																																			0	0	0
Elymus cinereus																																																			0	0	0
Elymus giganteus																																																			0	0	0
Hilaria Jamesii																																																			0	0	0
Oryzopsis hymenoides																																																			0	0	0
Sitanion hystrix																																																			0	0	0
Stipa comata																																																			0	0	0
																																																					0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Trees																																																					0
Juniper				1	1	1	1																									1	1	1	1	1	1					1	1	1							13	26	56.52173913
Pinon												1	1	1	1	1	1			1	1	1	1																												10	20	43.47826087
																																																			0	0	0
Total Tree Cover	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	23	46	100
																																																					0
Total Vegetation Cover	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	23	46	100
Cryptobiotic											1																																								1	2	
Physical Features																																																			0	0	
Litter	1		1							1								1	1																																5	10	
Rock																								1	1	1	1																		1	1	1	1	1	1	10	20	
Bare Ground		1						1	1																			1	1	1	1							1	1	1	1										11	22	
Total Physical Features																																																			26	52	
	1	1	1	3	3	3	3	1	1	1	1	3	3	3	3	3	3	1	1	3	3	3	3	1	1	1	1	1	1	1	1	3	3	3	3	3	3	1	1	1	1	3	3	3	1	1	1	1	1	1			
Comments:																																																				100	

Horse Canyon Cover Sheet

Date:6/16/03	Area:Ref						Transect:7								UTM:[illegible]																		Heading:309																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis	1																																																		1	2	3.703703704
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																					0
																																																					0
Total Shrubs Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.703703704
																																																					0
Forbs & Succulents																																																					0
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcia coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																					0
Agropyron Smithii																																																			0	0	0
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus																																																			0	0	0
Elymus cinereus																																																			0	0	0
Elymus giganteus																																																			0	0	0
Hilaria Jamesii																																																			0	0	0
Oryzopsis hymenoides																																																			0	0	0
Sitanion hystrix																																																			0	0	0
Stipa comata																																																			0	0	0
																																																					0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Trees																																																					0
Juniper						1	1						1	1	1	1	1	1	1	1		1	1	1	1	1	1				1	1	1										1	1	1	1	1	1	1		26	52	96.2962963
Pinon																																																			0	0	0
																																																					0
Total Tree Cover	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	26	52	96.2962963
																																																					0
Total Vegetation Cover	1	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	27	54	100
Cryptobiotic																														1				1					1												3	6	
Physical Features																																																					
Litter																																																			0	0	
Rock			1		1			1																				1								1	1	1													7	14	
Bare Ground		1		1					1	1	1	1									1								1						1					1	1	1								1	13	26	
Total Physical Features																																																			20	40	
	3	1	1	1	1	3	3	1	1	1	1	1	3	3	3	3	3	3	3	3	1	3	3	3	3	3	3	1	1	1	3	3	3	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	1			
Comments:																																																				100	

Horse Canyon Cover Sheet

Date:9/16/03 | Area:Ref | Transect:3 | UTM:0883863/4388088 | Heading:79

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																		0	0	0
Atriplex confertifolia																																																		0	0	0
Atriplex cuneata																																																		0	0	0
Artemisia nova																																																		0	0	0
Artemisia tridentata tridentata																																																		0	0	0
Chrysothamnus nauseosus																																																		0	0	0
Chrysothamnus viscidiflorus																																																		0	0	0
Cowania mexicana																																																		0	0	0
Ceratoides lanata																																																		0	0	0
Ephedra viridis																																																		0	0	0
Sarcobatus vermiculatus																																																		0	0	0
Gutierrezia sarothrae																																																		0	0	0
																																																		0	0	0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																				0
Forbs & Succulents																																																						0
Machaeranthera canescens																																																					0
Medicago sativa																																																					0
Melilotus officinalis																																																					0
Penstemon palmeri																																																					0
Sphaeralcia coccinea																																																					0
Stanleya albescens																																																					0
																																																				0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																				0
Graminoid																																																					0
Agropyron Smithii																																																					0
Agropyron spicatum																																																					0
Agropyron cristatum																																																					0
Agropyron trachycaulum																																																					0
Bromus tectorum																																																					0
Elymus Salinus														1			1			1																																3	6	33.33333333
Elymus cinereus																																																				0	0	0
Elymus gigantaeus																																																				0	0	0
Gelete Grass																																																				0	0	0
Hilaria Jamesii																																																				0	0	0
Oryzopsis hymenoides																																																				0	0	0
Sitanion hystrix																																																				0	0	0
Stipa comata																																																				0	0	0
																																																				0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	33.33333333
																																																				0
Trees																																																				0
Juniper																					1			1																													2	4	22.22222222
Pinon																			1												1								1	1												4	8	44.44444444
																																																				0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8	12	66.66666667
Total Vegetation Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9	18	100
Cryptobiotic																																																				
Physical Features																																																				0
Litter																										1						1																					
Rock			1	1									1		1	1															1							1							1		1				5	10	
Bare Ground	1	1			1	1	1	1	1	1	1	1						1				1	1		1		1	1	1	1					1	1	1	1					1	1		1		1		1	1	26	56	
Total Physical Features																																																			
	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	3	1	3	3	3	1	1	3	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	1	1	41	82	
Comments:																																																			100	

Horse Canyon Cover Sheet

Date:6/18/03	Area:Ref						Transect:9								UTM:[illegible]																		Heading:288																			
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																		0	0	0
Atriplex confertifolia																																																		0	0	0
Atriplex cuneata																																																		0	0	0
Artemisia nova																																																		0	0	0
Artemisia tridentata tridentata																																																		0	0	0
Chrysothamnus nauseosus																																																		0	0	0
Chrysothamnus viscidiflorus																																																		0	0	0
Cowania mexicana																																																		0	0	0
Ceratoides lanata																																																		0	0	0
Ephedra viridis																																																		0	0	0
Sarcobatus vermiculatus												1	1																																				2	4	20
Gutierrezia sarothrae																																																		0	0	0
																																																				0
																																																				0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	20
																																																				0
Forbs & Succulents																																																				0
Machaeranthera canescens																																																		0	0	0
Medicago sativa																																																		0	0	0
Medicago L																																																		0	0	0
Melilotus officinalis																																																		0	0	0
Penstemon palmeri																																																		0	0	0
Sphaeralcia coccinea																					1		1	1						1		1								1	1	1								8	16	80
Sisymbrium altissimum																																																		0	0	0
																																																				0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	8	16	80
																																																				0
Graminoid																																																				0
Agropyron Smithii																																																		0	0	0
Agropyron spicatum																																																		0	0	0
Agropyron cristatum																																																		0	0	0
Agropyron trachycaulum																																																		0	0	0
Bromus tectorum																																																		0	0	0
Elymus Salinus																																																		0	0	0
Elymus cinereus																																																		0	0	0
Elymus giganteus																																																		0	0	0
Hilaria Jamesii																																																		0	0	0
Oryzopsis hymenoides																																																		0	0	0
Stanion hystrix																																																		0	0	0
Stipa comata																																																		0	0	0
																																																				0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																				0
Trees																																																				0
Juniper																																																		0	0	0
Pinon																																																		0	0	0
																																																		0	0	0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																				0
Total Vegetation Cover	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	10	20	100
																																																			0	
Cryptobiotic									1	1	1			1			1	1																															6	12	
Physical Features																																																				
Litter																																																		0	0	
Rock			1	1												1																1																	1		5	10	
Bare Ground	1	1			1	1	1	1	1								1			1	1		1			1	1	1	1	1				1	1	1	1	1	1	1				1	1	1	1	1		1	29	58	
Total Physical Features																																																				
	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1	3	1	3	3	1	1	1	1	1	3	1	3	1	1	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1	34	68	
Comments:																																																			100	

Horse Canyon Cover Sheet																																																					
Date:8/16/03	Area:Ref						Transect:10								UTM:[illegible]																		Heading:275																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																															1		1																		2	4	15.38461538
																																																					0
																																																					0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	15.38461538
																																																					0
Forbs & Succulents																																																					0
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcia coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																					0
Agropyron Smithii																																																			0	0	0
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus																											1																								1	2	7.692307692
Elymus cinereus																																																			0	0	0
Elymus giganteous																																																			0	0	0
Hilaria Jamesii																																																			0	0	0
Oryzopsis hymenoides																																																			0	0	0
Sitanion hystrix																																																			0	0	0
Stipa comata																																																			0	0	0
																																																					0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7.692307692
																																																					0
Trees																																																					0
Juniper																																							1	1	1	1	1	1			1	1	1	1	10	20	76.92307692
Pinon																																																			0	0	0
																																																					0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	1	1	1	1	10	20	76.92307692
																																																				0	0
Total Vegetation Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	1	1	1	1	1	1	0	0	1	1	1	1	13	26	100
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter	1																	1																												1					3	6	
Rock				1	1																																														2	4	
Bare Ground		1	1			1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1		1	1	1		1		1	1	1	1	1							1						32	64	
Total Physical Features																																																			37	74	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	3	1	3	1	1	1	1	1	3	3	3	3	3	3	1	1	3	3	3	3			
Comments:																																																				100	

Horse Canyon Cover Sheet

Date:8/16/03 | Area:Ref | Transect:11 | UTM:0583823/4389134 | Heading:300

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Coryloides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																		1	1	2	6.25
																																																						0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	6.25
Forbs & Succulents																																																					0
Machaeranthera canescens																																																					0
Medicago sativa																																																				0	0	0
Melilotus officinalis																																																				0	0	0
Penstemon palmeri																																																				0	0	0
Sphaeralcia coccinea																																																				0	0	0
Sisymbrium altissimum																																																				0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grasslike																																																					0
Agropyron Smithii																																																					0
Agropyron spicatum																																																					0	0	0
Agropyron cristatum																																																					0	0	0
Agropyron trachycaulum																																																				0	0	0
Bromus tectorum		1																																																		1	2	6.25
Elymus Salinus				1	1	1									1																																					6	12	37.5
Elymus cinereus																																																		1	1			0	0	0
Elymus glaucous																																																				0	0	0
Hilaria Jamesii																																																				0	0	0
Oryzopsis hymenoides																																																				0	0	0
Stanton hystrix																																																				0	0	0
Stipa comata																																																				0	0	0
																																																				0	0	0
Total Grassland Cover	0	1	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	7	14	43.75
Trees																																																					0
Juniper																																																						0
Pinon																										1	1				1	1	1	1	1	1																		0	0	0
																																																				8	16	50
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	50
																																																				0
Total Vegetation Cover	0	1	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	16	32	100
								1						1																																						2	4	
Cryptobiotic																																																						
Physical Features																																																					
Litter											1							1												1																						4	8	
Rock																																																					
Bare Ground	1		1				1		1	1	1	1			1	1	1		1	1	1	1	1	1				1	1								1	1			1	1									3	6	
																																																				25	50	
Total Physical Features																																																					
	1	3	1	3	3	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	32	64	
Comments:																																																					100	

Horse Canyon Cover Sheet

Date:6/16/03 | Area:Ref | Transect:12 | UTM:0353857/4309171 | Heading:308

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																					0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Forbs & Succulents																																																						0
Machaeranthera canescens																																																						0
Medicago sativa																																																						0
Melilotus officinalis																																																						0
Penstemon palmeri																																																						0
Sphaeralcia coccinea																																																						0
Sisymbrium altissimum																																																						0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Grasslaid																																																						0
Agropyron Smithii																																																						0
Agropyron spicatum																																																						0
Agropyron cristatum																																																						0
Agropyron trachycaulum																																																						0
Bromus tectorum																																																						0
Elymus Salinus		1	1		1		1		1				1		1				1								1							1										1		1	1					13	26	81.25
Elymus cinereus																																																						0
Elymus gigantaeus																																																						0
Hilaria Jamesii																																																						0
Oryzopsis hymenoides																																																						0
Stanton hystrix																																																						0
Stipa comata																																																						0
																																																						0
Total Grasslaid Cover	0	1	1	0	1	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	13	26	81.25
																																																					0
Trees																																																						0
Juniper																																																						0
Pinon																														1				1	1																	0	0	0
																																																					3	6	18.75
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	18.75
																																																					0
Total Vegetation Cover	0	1	1	0	1	0	1	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	1	1	0	0	0	18	32	100
Cryptobiotic	1			1																																									1	1	1							5	10	
Physical Features																																																						
Litter																																																						
Rock																1																																						2	4	
Bare Ground						1		1		1	1	1		1			1	1		1	1	1			1	1	1			1								1	1														5	10	
																																																					22	44	
Total Physical Features																																																					29	58	
	1	3	3	1	3	1	3	1	3	1	1	1	3	1	3	1	1	1	3	1	1	1	1	1	1	1	3	1	1	3	1	1	1	3	3	1	1	3	1	1	1	1	1	1	3	1	3	3	1	1	1		100	
Comments:																																																					

Horse Canyon Cover Sheet

Date:6/16/09 | Area:Ref | Transect:13 | UTM:0683605/4388089 | Heading:92

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Coleria mezicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae									1																																											1	2	4.545454545
																																																						0
Total Shrubs Cover	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4.545454545
																																																					0
Forbs & Succulents																																																						0
Machaeranthera canescens																																																						0
Medicago sativa																																																						0	0	0
Melilotus officinalis																																																						0	0	0
Penstemon palmeri																																																						0	0	0
Sphaeralcia coccinea																																																						0	0	0
Stevnbrium albalmum																																																						0	0	0
																																																						0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																						0
Grasslaid																																																							0
Agropyron Smithii																																																							0
Agropyron spicatum																																																							0	0	0
Agropyron cristatum																																																							0	0	0
Agropyron trachycaulum																																																							0	0	0
Bromus tectorum																																																							0	0	0
Elymus Salinus				1	1	1					1		1																																									0	0	0
Elymus cinereus																																																							5	10	22.72727273
Elymus gigarteous																																																							0	0	0
Hilaria Jamesii																																																							0	0	0
Oryzopsis hymenoides																			1	1																																					2	4	9.090909091
Sitanion hystrix																																																								0	0	0
Stipa comata																																																								0	0	0
																																																							0	0	0
Total Grassiaid Cover	0	0	0	1	1	1	0	0	0	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	14	31.81818182
																																																						0
Trees																																																								0
Juniper																							1	1	1	1	1	1				1	1	1	1	1	1									1	1	1						14	28	63.63636364
Pinon																																																							0
																																																							0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	14	28	63.63636364
																																																						0
Total Vegetation Cover	0	0	0	1	1	1	0	0	1	0	1	0	1	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	22	44	100
Cryptobiotic		1						1																																															5	10	
Physical Features																																																							
Litter																																																							
Rock	1																											1																										2	4	
Bare Ground			1				1			1		1		1	1	1	1			1		1	1						1	1																	1	1				6	12	
0																																																					15	30	
Total Physical Features																																																					22	46	
	1	1	1	3	3	3	1	1	3	1	3	1	3	1	1	1	1	3	3	1	1	1	3	3	3	3	3	1	1	1	3	3	3	3	3	1	1	1	1	1	1	1	1	3	3	3	3	1	1				
Comments:																																																						100		

Horse Canyon Cover Sheet

Date:9/16/03 | Area:Ref | Transect:14 | UTM:0663677/4389087 | Heading:37

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																					0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Forbs & Succulents																																																						0
Mechaeranthera canescens																																																						0
Medicago sativa																																																						0
Melilotus officinalis																																																						0
Penstemon palmeri																																																						0
Sphaeralcia coccinea																																																						0
Strymbrium stasimum																																																						0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Grasslike																																																						0
Agropyron Smithii																																																						0
Agropyron spicatum																																																						0
Agropyron cristatum																																																						0
Agropyron trachycaulum																																																						0
Bromus tectorum																																																						0
Elymus Salinus																					1	1																																2	4	16.66666667
Elymus cinereus																																																						0
Elymus gigarteus																																																						0
Hilaria Jamesii																																																						0
Oryzopsis hymenoides																																																						0
Stanion hystrix																																																						0
Stipa comata																																																						0
																																																					0
Total Grasslike Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	16.66666667
																																																					0
Trees																																																						0
Juniper																							1	1	1	1	1																											0
Pinon																																										1	1	1	1				1		10	20	66.33333333
																																																					0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	0	10	20	66.33333333
																																																					0
Total Vegetation Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	0	12	24	100
																																																					0
Cryptobiotic																																																						1	2	
																																																						0
Physical Features																																																						0
Litter						1	1		1			1								1										1																							5	10	
Rock										1					1																1	1		1	1	1	1	1					1								11	22	
Bare Ground	1	1	1	1	1			1		1		1	1	1	1			1	1	1																		1		1	1		1								21	42	
Total Physical Features																																																					37	74	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1	1	3	1		100	

Comments:

Horse Canyon Cover Sheet

Date:6/16/03 | Area:Ref | Transect:16 | UTM:0663640/4388070 | Heading:160

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																					0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Forbs & Succulents																																																						0
Machaeranthera canescens																																																						0
Medicago sativa																																																						0	0	0
Melilotus officinalis																																																						0	0	0
Penstemon palmeri																																																						0	0	0
Sphaeralcia coccinea																																																						0	0	0
Sisymbrium altissimum																																																						0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																						0
Agropyron Smithii																																																						0
Agropyron spicatum																																																						0	0	0
Agropyron cristatum																																																						0	0	0
Agropyron trachycaulum																																																						0	0	0
Bromus tectorum																																																						0	0	0
Elymus Salinus				1		1																																															2	4	16.66666667
Elymus cinereus																																																						0	0	0
Elymus gigenteus																																																						0	0	0
Hilaria Jamesii																																																						0	0	0
Oryzopsis hymenoides																																																						0	0	0
Stipa comata																																																						0	0	0
Bromus japonicus							1																																															1	2	8.333333333
Total Graminoid Cover	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					3	6	25
Trees																																																							0
Juniper										1																																														1	2	8.333333333
Pinon														1	1	1	1	1																											1	1	1							4	8	33.33333333
																																																					5	10	41.66666667
Total Tree Cover	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
																																																					8	16	75
Total Vegetation Cover	0	0	0	1	0	1	1	0	0	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
																																																					12	24	100
Cryptobiotic																																																						
																																																						0	0	
Physical Features																																																						
Litter			1		1				1																																														
Rock		1																	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	6	
Bare Ground	1						1				1	1	1																																								2	4	
																			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	33	66	
Total Physical Features																																																					
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	38	76	
Comments:																																																						100	

Horse Canyon Cover Sheet

Date:6/16/03	Area:16						Transect:16								UTM:[illegible]																		Heading:174																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																	1		1	2	6.666666667
																																																					0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	6.666666667
																																																					0
Forbs																																																					0
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcea coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																					0
Agropyron Smithii																																																			0	0	0
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus												1													1																			1		1				1	5	10	33.33333333
Elymus cinereus																																																			0	0	0
Elymus giganteus																																																			0	0	0
Hilaria Jamesii																																																			0	0	0
Oryzopsis hymenoides																																																			0	0	0
Sitanion hystrix																																																			0	0	0
Stipa comata																																																				0	0	0
																																																						0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	5	10	33.33333333
Trees																																																			0	0	0
Juniper		1	1	1	1																												1	1	1						1	1									9	18	60
Pinon																																																			0	0	0
																																																					0
Total Tree Cover	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	9	18	60
																																																					0
Total Vegetation Cover	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	1	0	1	0	0	1	1	15	30	100
Cryptobiotic																																					1														1	2	
Physical Features																																																					
Litter																																											1								1	2	
Rock																										1	1	1	1																1		1				6	12	
Bare Ground	1					1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1						1	1	1				1		1	1	1								1			27	54	
Total Physical Features																																																			34	68	
	1	3	3	3	3	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	3	3	3	1	1	1	1	1	3	3	1	3	1	3	1	1	3	3		100	
Comments:																																																					

Horse Canyon Cover Sheet

Date:6/16/03 | Area:10 | Transect:17 | UTM:0000000N0000000 | Heading:111

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relatively Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Coryloides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																									1										1	2	6.666666667
Gutierrezia sarothrae											1																																								0	0	0
																																																		1	2	6.666666667
Total Shrub Cover	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	4	13.33333333
Forbs & Succulents																																																						
Machaeranthera canescens																																																						
Medicago sativa																																																				0	0	0
Melilotus officinalis																																																				0	0	0
Penstemon palmeri																																																				0	0	0
Sphaeralcia coccinea																																																				0	0	0
Stanleya elegans																																																				0	0	0
																																																			0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grass/gld																																																					
Agropyron Smithii																																																						0
Agropyron spicatum																																																				0	0	0
Agropyron cristatum																																																				0	0	0
Agropyron trachycaulum																																																				0	0	0
Bromus tectorum																																																				0	0	0
Elymus Salinus			1						1	1																																									0	0	0
Elymus cinereus																																																				1	4	6	26.66666667
Elymus gigenteus																																																				0	0	0
Hilaria Jamesii																																																				0	0	0
Oryzopsis hymenoides																				1																																	1	2	6.666666667
Stanion hystrix																																																				0	0	0
Stipa comata																																																				0	0	0
																																																			0	0	0
Total Grass/gld Cover	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	33.33333333
Trees																																																						
Juniper																																																						0
Pinon															1	1																	1	1			1	1														4	6	26.66666667
																															1	1																			4	6	26.66666667
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	53.33333333
Total Vegetation Cover	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	15	30	100
Cryptobiotic								1																																													1	2	
Physical Features																																																						
Litter	1																																								1										2	4	
Rock													1					1									1																								3	4	
Bare Ground		1		1	1	1	1					1	1						1	1		1	1	1	1	1	1			1	1					1					1			1		1					6	12	
																																			1			1					1	1		1		1	1	1		20	52	
Total Physical Features																																																					
																																																			34	68	
Comments:	1	1	3	1	1	1	1	1	3	3	3	1	1	1	3	3	1	1	1	3	1	1	1	1	1	1	1	1	1	3	3	3	3	1	3	3	1	1	3	1	1	1	1	1	1	1	1	1	3			100	

Horse Canyon Cover Sheet

Date:6/16/03 | Area:16 | Transect:16 | UTM:0883830/4088080 | Heading:2

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relatively Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																					0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																				0
Forbs & Succulents																																																					0
Machaeranthera canescens																																																					0	0	0
Medicago sativa																																																				0	0	0
Melilotus officinalis																																																				0	0	0
Penstemon palmeri																																																				0	0	0
Sphaeralcia coccinea																																																				0	0	0
Stanleya elatissimum																																																				0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																				0
Graminoid																																																					0
Agropyron Smithii																																																					0	0	0
Agropyron spicatum																																																				0	0	0
Agropyron cristatum																																																				0	0	0
Agropyron trachycaulum																																																				0	0	0
Bromus tectorum																																																				0	0	0
Elymus Salinus															1																																					1	2	4	11.76470588
Elymus cinereus																																																				0	0	0
Elymus gigenteous																																																				0	0	0
Hilaria Jamesii																																																				0	0	0
Oryzopsis hymenoides																																																				0	0	0
Stanion hystrix																																																				0	0	0
Stipa comata																																																				0	0	0
																																																					0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	11.76470588
																																																				0
Trees																																																					0
Juniper																																									1	1	1	1	1	1	1	1	1				
Pinon	1	1	1	1	1	1																																												8	16	52.94117647
																																																				6	12	35.29411765
																																																					0
Total Tree Cover	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	15	30	88.23529412
																																																					0
Total Vegetation Cover	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	17	34	100
Cryptobiotic																								1	1	1		1									1														5	10	
																																																				0	0	
Litter										1																																1									2	4	
Rock											1					1			1																																4	8	
Bare Ground							1	1	1	1	1			1			1			1	1	1	1	1			1																									22	44	
																																																				0	
Total Physical Features																																																				88	88	
Comments:	3	3	3	3	3	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3		100	

																						Horse Canyon Cover Sheet																														
Date:8/19/03	Area:16						Transect:19								UTM:[illegible]																		Heading:188																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana						1																																													1	2	7.142857143
Ceratoides lanata																																																			0	0	0
Ephedra viridis															1																																				1	2	7.142857143
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae .																																																			0	0	0
																																																					0
																																																					0
Total Shrubs Cover	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	14.28571429
																																																					0
Forbs & Succulents																																																					0
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcea coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																					0
Agropyron Smithii																																																			0	0	0
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus								1																							1																1	1		1	5	10	35.71428571
Elymus cinereus																																																			0	0	0
Elymus giganteus																																																			0	0	0
Hilaria Jamesii																																												1							1	2	7.142857143
Oryzopsis hymenoides																																																			0	0	0
Sitanion hystrix																																																			0	0	0
Stipa comata																																																			0	0	0
																																																					0
Total Graminoid Cover	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	6	12	42.85714286
																																																					0
Trees																																																					0
Juniper							1												1	1																															3	6	21.42857143
Pinon									1	1	1																																								3	6	21.42857143
																																																					0
Total Tree Cover	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	42.85714286
																																																					0
Total Vegetation Cover	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	14	28	100
Cryptobiotic																																																	1		1	2	
Physical Features																																																					
Litter												1																							1																2	4	
Rock					1												1					1	1	1	1	1	1	1	1			1					1					1									13	26	
Bare Ground	1	1	1	1									1	1		1		1			1									1			1	1		1		1	1	1	1		1		1	1					20	40	
Total Physical Features																																																			35	70	
	1	1	1	1	1	3	3	3	3	3	3	1	1	1	3	1	1	1	3	3	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	3	3	1	3			
Comments:																																																					
																																														Total Cover						100	

Horse Canyon Cover Sheet

Date:8/16/03 | Area:Ref | Transect:20 | UTM:0683873/4398059 | Heading:161

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Coleata mexicana																																																			0	0	0
Coralidea lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																			0	0	0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forbs & Succulents																																																							
Machaeranthera canescens																																																							
Medicago sativa																																																				0	0	0
Melilotus officinalis																																																				0	0	0
Penstemon palmeri																																																				0	0	0
Sphaeralcia coccinea																																																				0	0	0
Sisymbrium altissimum																																																				0	0	0
																																																			0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grassoid																																																						
Agropyron Smithii																																																						
Agropyron spicatum																																																				0	0	0
Agropyron cristatum																																																				0	0	0
Agropyron trachycaulum																																																				0	0	0
Bromus tectorum																																																				0	0	0
Elymus Salinus																																																				0	0	0
Elymus cinereus																										1																											1	2	5.263157895
Elymus glaucous																																																				0	0	0
Hilaria Jamesii																																																				0	0	0
Oryzopsis hymenoides																																1																				1	2	5.263157895
Stanion hystrix																																																				0	0	0
Stipa comata																																																				0	0	0
																																																			0	0	0
Total Grassoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	10.52631579
Trees																																																						
Juniper															1				1																																						
Pinon					1	1	1	1																									1	1		1							1	1	1			1	1	1			9	16	42.10526316
																																																				9	18	47.36842105
Total Tree Cover	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	17	34	89.47368421
Total Vegetation Cover	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	19	38	100
Cryptobiotic Cover																															1			1																		2	4	
Physical Features																																																					
Litter			1										1																																							2	4	
Rock																						1												1			1															2	4	
Bare Ground	1	1	1					1	1	1	1	1			1	1	1		1	1			1	1	1		1	1	1		1																						4	8	
																																																	1	1	1		25	46	
Total Physical Features	1	1	1	1	1	3	3	3	1	1	1	1	1	1	3	1	1	1	3	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	3	3	1	3	3	3	3	3	3	3	3	1	1	1	1		29	58	
Comments:																																																				100	

Horse Canyon Cover Sheet																																																					
Date:8/16/03	Area:Ref						Transect:20								UTM:0553673/4366059																		Heading:161																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																					0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Forbs & Succulents																																																					0
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcia coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																					0
Agropyron Smithii																																																			0	0	0
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus																										1																									1	2	5.263157895
Elymus cinereus																																																			0	0	0
Elymus giganteus																																																			0	0	0
Hilaria Jamesii																															1																				1	2	5.263157895
Oryzopsis hymenoides																																																			0	0	0
Sitanion hystrix																																																			0	0	0
Stipa comata																																																			0	0	0
																																																					0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	10.52631579
																																																					0
Trees																																																					0
Juniper															1				1																1	1		1						1	1	1					8	16	42.10526316
Pinon					1	1	1	1																															1	1	1	1	1								9	18	47.36842105
																																																					0
Total Tree Cover	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	17	34	89.47368421
																																																					0
Total Vegetation Cover	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	19	38	100
Cryptobiotic Cover																														1			1																		2	4	
Physical Features																																																					
Litter				1										1																																					2	4	
Rock																						1												1			1													1	4	8	
Bare Ground	1	1	1						1	1	1	1	1			1	1	1		1	1		1	1	1		1	1	1			1															1	1	1		23	46	
Total Physical Features																																																			29	58	
	1	1	1	1	3	3	3	3	1	1	1	1	1	1	3	1	1	1	3	1	1	1	1	1	1	3	1	1	1	1	3	1	1	1	3	3	1	3	3	3	3	3	3	3	3	3	1	1	1	1			
																																																				100	
Comments:																																																					

Horse Canyon Cover Sheet

Date:6/16/03 | Area:Ref | Transect:21 | UTM:0663617/4389144 | Heading:12

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Coleata mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																						1														1	2	3.571428571
																																																						0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.571428571
																																																					0
Forbs & Succulents																																																						0
Machaeranthera canescens																																																						0
Medicago sativa																																																						0	0	0
Melilotus officinalis																																																						0	0	0
Penstemon palmeri																																																						0	0	0
Sphaeralcia coccinea																																																						0	0	0
Stanleya elata																																																						0	0	0
																																																					0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																							0
Agropyron Smithii																																																						0
Agropyron spicatum																																																						0	0	0
Agropyron cristatum																																																						0	0	0
Agropyron trachycaulum																																																						0	0	0
Bromus tectorum																																																						0	0	0
Elymus Salinus																																																						0	0	0
Elymus cinereus																							1	1																															4	8	14.28571429
Elymus gigantecus																																																						0	0	0
Hilaria Jamesii																																																						0	0	0
Oryzopsis hymenoides																																																						0	0	0
Stanlea hydra																																																						0	0	0
Stipa comata																																																						0	0	0
																																																					0	0	0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	4	8	14.28571429
Trees																																																						0
Juniper								1	1	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1	1	1	1	1	1																	0
Pinon																																																						23	46	82.14285714
																																																					0	0	0
Total Tree Cover	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	23	46	82.14285714
																																																					0	0	0
Total Vegetation Cover	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	28	56	100
Cryptobiotic Cover																																																					0		
																																																					2	4	
Physical Features																																																							
Litter																																																							
Rock			1																																																	0	0	
Bare Ground	1	1		1	1	1	1	1													1	1			1	1																	1	1		1					1	5	10	
																																																					1	15	30	
Total Physical Features																																																						
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	28	40	
																																																						100	
Comments:																																																							

Horse Canyon Cover Sheet

Date:8/16/03 | Area:Ref | Transect:22 | UTM:0843668N4399104 | Heading:363

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																			0	0	0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcia coccinea																																																			0	0	0
Stanleya elbelmum																																																			0	0	0
																																																			0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Graminoid																																																					
Agropyron Smithii																																																					0	0	0
Agropyron spicatum																																																				0	0	0
Agropyron cristatum																																																				0	0	0
Agropyron trachycaulum																																																				0	0	0
Bromus tectorum																																																				0	0	0
Elymus Salinus															1																																					1	0	0
Elymus cinereus																									1																											2	4	10.52631579
Elymus gigantecus																																																			0	0	0
Hilaria Jamesii																																																			0	0	0
Oryzopsis hymenoides																																																			0	0	0
Stanleya hyalbi																																																			0	0	0
Stipa comata																																																			0	0	0
																																																			0	0	0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	10.52631579
Trees																																																					
Juniper			1		1	1	1	1	1	1	1																																											
Pinon																										1	1	1								1	1	1	1	1									1		17	34	89.47368421
																																																			0	0	0
Total Tree Cover	0	0	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	17	0	0
																																																			34	89.47368421
Total Vegetation Cover	0	0	1	0	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	17	0	0
																																																			34	89.47368421
Cryptobiotic Cover															1	1																																			10	36	100
																															1	1	1																			
Physical Features																																																			5	10	
Litter																																																					
Rock				1																																					1	1	1				1	1			5	10	
Bare Ground	1	1									1	1	1					1	1	1	1	1		1					1	1				1	1															1	3	6
																																													1	1	1				18	36	
Total Physical Features																																																			0	
																																																			36	92	
Comments:	1	1	3	1	3	3	3	3	3	3	3	1	1	1	3	1	1	1	1	1	1	1	1	3	3	3	3	1	1	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1	1	1	1	3	1			100	

Horse Canyon Cover Sheet

Date:6/16/03 | Area:Ref | Transect:23 | UTM:0383636/4389131 | Heading:98

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Coverta mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																			0	0	0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forbs & Succulents																																																						
Mechaeranthera canescens																																																				0	0	0
Medicago sativa																																																				0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcia coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																			0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Graminoid																																																					
Agropyron Smithii																																																					
Agropyron spicatum																																																			0	0	0
Agropyron orlatatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus																																																			0	0	0
Elymus cinereus																																																		1	1	2	9.090909091
Elymus glaucous																																																			0	0	0
Hilaria Jamesii		1		1																																															0	0	0
Oryzopsis hymenoides																																																			2	4	18.18181818
Stipion hystrix																																																			0	0	0
Stipa comata																																																				0	0	0
																																																			0	0	0
Total Graminoid Cover	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	6	27.27272727
																																																				0
Trees																																																					0
Juniper																																																					0
Pinon																																																					0
																																																			1	1	7	14	63.63636364
																																																			1	2	9.090909091
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	8	16	72.72727273
																																																					0
Total Vegetation Cover	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	11	22	100
Cryptobiotic		1			1	1		1							1			1			1				1																												8	16	
Physical Features																																																					
Litter																																																					
Rock																																																					
Bare Ground	1				1			1		1	1	1	1	1		1	1		1	1		1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1													2	4	
																																																			0	0	
Total Physical Features																																																			1	1	29	58	
																																																			31	62	
Comments:	1	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	1	1			
																																																			100	

Horse Canyon Cover Sheet

Date:6/16/09 | Area:Ref | Transect:24 | UTM:0883678/4388084 | Heading:29

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relatively Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																			0	0	0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
																																																					0
Forbs & Succulents																																																							0
Machaeranthera canescens																																																						0	0	0
Medicago sativa																																																						0	0	0
Melilotus officinalis																																																						0	0	0
Penstemon palmeri																																																						0	0	0
Sphaeralcia coccinea																																																						0	0	0
Sisymbrium altissimum																																																						0	0	0
																																																					0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
																																																					0	0	0
Graminoid																																																							0
Agropyron Smithii																																																						0	0	0
Agropyron spicatum																																																						0	0	0
Agropyron cristatum																																																						0	0	0
Agropyron trachycaulum																																																						0	0	0
Bromus tectorum																																																						0	0	0
Elymus Salinus																																																						0	0	0
Elymus cinereus																																																						0	0	0
Elymus glaucous																																																						0	0	0
Hilaria Jamesii																																																						0	0	0
Oryzopsis hymenoides																																																						0	0	0
Sitanion hystrix																																																						0	0	0
Stipa comata																																																						0	0	0
																																																					0	0	0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
																																																					0	0	0
Trees																																																							0
Juniper																																																							0
Pinon																																																							0
																																																						2	4	22.22222222
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	7	14	77.77777778
																																																					0	0	0
Total Vegetation Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	9	18	100
																																																					0	0	0
Cryptobiotic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	9	18	100
																																																					0	0	0
Physical Features																																																						3	6	
Litter			1	1																					1																														
Rock															1		1				1																								1									4	9	
Bare Ground	1	1			1	1	1	1	1	1	1	1	1	1		1		1	1	1		1	1	1				1	1	1		1												1	1							6	12	
																																																						26	56	
Total Physical Features																																																						0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	1	1	1	1	3	3	3	1	1	1	1		38	76	
Comments:																																																						100	

Horse Canyon Cover Sheet

Date:8/16/09 | Area:Ref | Transect:36 | UTM:0382888/4398147 | Heading:286

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																																		0	0	0
Atriplex cuneata																																																		0	0	0
Artemisia nova																																																		0	0	0
Artemisia tridentata tridentata																																																		0	0	0
Chrysothamnus nauseosus																																																		0	0	0
Chrysothamnus viscidiflorus																																																		0	0	0
Cowania mexicana																																																		0	0	0
Coryloides lanata																																																		0	0	0
Ephedra viridis																																																		0	0	0
Sarcobatus vermiculatus																																																		0	0	0
Gutierrezia sarothrae																										1																									0	0	0
																																																		1	2	3.448275862
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.448275862
																																																					0
Forbs & Succulents																																																						0
Machaeranthera canescens																																																					0	0	0
Medicago sativa																																																					0	0	0
Melilotus officinalis																																																					0	0	0
Penstemon palmeri																																																					0	0	0
Sphaeralcia coccinea																		1																																		0	0	0
Sisymbrium altissimum																																																					1	2	3.448275862
																																																					0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.448275862
																																																					0
Graminoid																																																						0
Agropyron Smithii																																																					0	0	0
Agropyron spicatum																																																					0	0	0
Agropyron cristatum																																																					0	0	0
Agropyron trachycaulum																																																					0	0	0
Bromus tectorum									1	1																																										0	0	0
Elymus Salinus				1	1				1			1	1	1	1								1	1	1										1				1		1	1				1						7	14	24.13793103
Elymus cinereus																							1	1	1			1	1					1	1			1	1				1	1							10	36	62.06896552
Elymus gigenteus																																																					0	0	0
Hilaria Jamesii																																																					0	0	0
Oryzopsis hymenoides																																																					0	0	0
Stanton hystrix																																																					0	0	0
Stipa comata																																																					0	0	0
Vulpia octoflora					1															1																																	0	0	0
																																																				2	4	0.689655174
Total Graminoid Cover	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	1	1	1	0	0	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1	1	1	0	0	0	0	27	54	93.10344828
																																																					0
Trees																																																					0
Juniper																																																					0	0	0
Pinon																																																					0	0	0
																																																					0	0	0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Total Vegetation Cover	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	1	0	0	1	1	1	1	0	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0
																																																					0
Cryptobiotic			1																		1	1																														20	59	100
																																																				0	0	
Physical Features																																																					3	6	
																																																				0	0	
																																																				0		
Litter																																																						
Rock																																																					0	0	
Bare Ground	1	1					1								1	1	1	1	1							1				1																	1		1	1		2	4	
Total Physical Features																																																					17	34	
	1	1	1	3	3	3	1	3	3	3	3	3	3	3	1	1	4	1	1	3	1	1	3	3	3	3	1	3	3	1	1	1	3	3	1	3	3	3	3	3	3	1	3	3	3	1	1	1	1	1	19	38	
Comments:																																																					102	

Horse Canyon Cover Sheet

Date:6/18/09 | Area:Ref | Transect:36 | UTM:0563982/4369202 | Heading:154

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Coweria mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																					0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forbs & Succulents																																																					0
Machaeranthera canescens																																																				0	0	0
Medicago sativa																																																				0	0	0
Melilotus officinalis																																																				0	0	0
Penstemon palmeri																																																				0	0	0
Sphaeralcia coccinea																																																				0	0	0
Sisymbrium altissimum																																																				0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grasslaid																																																					
Agropyron Smithii																																																				0	0	0
Agropyron spicatum																																																				0	0	0
Agropyron cristatum																																																				0	0	0
Agropyron trachycaulum																																																				0	0	0
Bromus tectorum																																																				0	0	0
Elymus Salinus				1				1	1										1					1	1	1			1		1		1	1	1		1	1		1			1			1		1				14	28	46.66666667
Elymus cinereus																			1											1		1																					6	12	20
Elymus glaucous																																																				0	0	0
Hilaria Jamesii																																																				0	0	0
Oryzopsis hymenoides																																																				0	0	0
Stanion hystrix																																																				0	0	0
Stipa comata																																																				0	0	0
Vulpia octoflora				1																																																0	0	0
																																																				1	2	3.333333333
Total Grassland Cover	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
																																																				21	42	70
Trees																																																							
Juniper										1	1	1	1	1	1	1	1	1																																					0	0	0
Pinon																																																							9	18	30
																																																						0	0	0
Total Tree Cover	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					9	18	30
Total Vegetation Cover	0	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
																																																						30	60	100
Cryptobiotic	1																																																						1	2	4
Physical Features																																																							
Litter		1																																																					
Rock			1																																																				1	2	
Bare Ground					1	1														1	1																																5	10	
																						1			1																													12	24	
Total Physical Features																																																							
	1	1	1	3	3	1	1	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	3	3	3	1	1	3	3	3	3	3	3	3	1	3	1	3	3	1	3	1	1	3	1	3	1	1	1	19	38	
Comments:																																																					100	

Horse Canyon Cover Sheet																																																					
Date:6/16/03	Area:Ref						Transect:27								UTM:[illegible]																		Heading:180																			
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																					0
Total Shrub Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Forbs & Succulents																																																			0	0	0
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcea coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																			0	0	0
Agropyron Smithii																																																			0	0	0
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum	1	1	1			1			1		1																																								6	12	27.27272727
Elymus Salinus																																																			0	0	0
Elymus cinereus																																																			0	0	0
Elymus giganteus																																																			0	0	0
Hilaria Jamesii															1																																				1	2	4.545454545
Oryzopsis hymenoides																																																			0	0	0
Sitanion hystrix																																																			0	0	0
Stipa comata																																																			0	0	0
Vulpia octaflora																				1																															1	2	4.545454545
																																																					0
Total Graminoid Cover	1	1	1	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	36.36363636
																																																					0
Trees																																																						0
Juniper																																1	1	1	1	1	1	1	1	1	1	1	1	1					1		14	28	63.63636364
Pinon																																																				0	0
																																																					0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	14	28	63.63636364
																																																					0
Total Vegetation Cover	1	1	1	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	22	44	100
Cryptobiotic				1																																														1	2	4	
Physical Features																																																					
Litter																																															1	1			2	4	
Rock																					1		1																												2	4	
Bare Ground					1		1	1		1		1	1	1		1	1	1	1			1		1	1	1	1	1	1	1	1														1	1					22	44	
Total Physical Features																																																			26	52	
	3	3	3	1	1	3	1	1	3	1	3	1	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	3	1		100	
Comments:																																																					

Horse Canyon Cover Sheet

Date:6/16/03 Area:Ref Transect:28 UTM:[illegible] Heading:268

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																			0	0	0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Forbs & Succulents																																																			0	0	0
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcea coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																				0	0	0
Agropyron Smithii																																																			0	0	0
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus																																																			1	2	6.666666667
Elymus cinereus																			1																																0	0	0
Elymus giganteus																																																			0	0	0
Hilaria Jamesii	1																																																		1	2	6.666666667
Oryzopsis hymenoides																																																			0	0	0
Sitanion hystrix																																																			0	0	0
Stipa comata																																																			0	0	0
																																																					0
Total Graminoid Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	13.33333333
																																																					0
Trees																																																						0
Juniper								1																																								1			11	22	73.33333333
Pinon									1	1												1	1	1			1	1	1	1	1	1																			2	4	13.33333333
																																																					0
Total Tree Cover	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	13	26	86.66666667
																																																					0
Total Vegetation Cover	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	15	30	100
Cryptobiotic							1											1																																1	3	6	
Physical Features																																																				0	
Litter				1							1																							1			1														4	8	
Rock			1																	1	1																			1											4	8	
Bare Ground		1			1	1						1	1	1	1	1	1	0							1	1							1		1	1		1	1		1	1	1	1	1	1	1		1		24	48	
Total Physical Features																																																			32	64	
	3	1	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1	1	3	1	1	3	3	3	1	1	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1			
																																																				100	
Comments:																																																					

plantain, small white daisy, buckwheat present

Horse Canyon Cover Sheet

Date:6/16/03 | Area:Ref | Transect:29 | UTM:3983567/4368198 | Heading:73

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																																		0	0	0
Atriplex cuneata																																																		0	0	0
Artemisia nova																																																		0	0	0
Artemisia tridentata tridentata																																																		0	0	0
Chrysothamnus nauseosus																																																		0	0	0
Chrysothamnus viscidiflorus																																																		0	0	0
Cowania mexicana																																																		0	0	0
Ceratoides lanata																																																		0	0	0
Ephedra viridis																																																		0	0	0
Sarcobatus vermiculatus																																																		0	0	0
Gutierrezia sarothrae																										1																									1	2	5.263157895
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5.263157895
Forbs & Succulents																																																					0
Mechaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcia coccinea																																																			0	0	0
Stephanomeria elegans																																																			0	0	0
																																																			0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Graminoid																																																				0
Agropyron Smithii	1																												1		1																				3	6	15.78947368
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus																																																			0	0	0
Elymus cinereus																																																			0	0	0
Elymus gigarteous																																																			0	0	0
Hilaria Jamesii																																																			0	0	0
Oryzopsis hymenoides																																																			0	0	0
Stanion hystrix																																																			0	0	0
Stipa comata																																																			0	0	0
																																																			0	0	0
Total Graminoid Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	15.78947368
Trees																																																				0
Juniper												1	1	1		1	1	1													1	1	1	1	1								1	1	1	1						0
Pinon																																																			15	30	78.94736842
																																																			0	0	0
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	15	30	78.94736842
																																																			0	0	0
Total Vegetation Cover	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	18	36	100
		1		1					1																													1															
Cryptobiotic																																																					
																																																				1	5	10
Physical Features																																																				
Litter																																																				
Rock					1	1	1																																											0	0
Bare Ground		1		1					1	1						1				1	1	1	1			1																			1	1						10	20
																			1																																	16	32
Total Physical Features																																																				
																																																			36	52	
	3	1	1	1	1	1	1	1	1	1	1	3	3	3	1	3	3	3	1	1	1	1	1	1	1	3	1	1	3	1	3	3	3	3	3	1	1	1	1	1	1	1	3	3	3	3	1	1				
Comments:																																																			100		

Horse Canyon Cover Sheet																																																					
Date:8/16/03	Area:Ref						Transect:30								UTM:0553532/4369106																		Heading:162																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0
Atriplex confertifolia																																																			0	0	0
Atriplex cuneata																																																			0	0	0
Artemisia nova																																																			0	0	0
Artemisia tridentata tridentata																																																			0	0	0
Chrysothamnus nauseosus																																																			0	0	0
Chrysothamnus viscidiflorus																																																			0	0	0
Cowania mexicana																																																			0	0	0
Ceratoides lanata																																																			0	0	0
Ephedra viridis																																																			0	0	0
Sarcobatus vermiculatus																																																			0	0	0
Gutierrezia sarothrae																																																			0	0	0
																																																				0	0
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																				0	0
Forbs																																																			0	0	0
Machaeranthera canescens																																																			0	0	0
Medicago sativa																																																			0	0	0
Melilotus officinalis																																																			0	0	0
Penstemon palmeri																																																			0	0	0
Sphaeralcia coccinea																																																			0	0	0
Sisymbrium altissimum																																																			0	0	0
																																																					0
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																																																					0
Graminoid																																																			0	0	0
Agropyron Smithii																																																			0	0	0
Agropyron spicatum																																																			0	0	0
Agropyron cristatum																																																			0	0	0
Agropyron trachycaulum																																																			0	0	0
Bromus tectorum																																																			0	0	0
Elymus Salinus														1														1								1															3	6	30
Elymus cinereus																																																			0	0	0
Elymus giganteus																																																			0	0	0
Hilaria Jamesii																																																			0	0	0
Oryzopsis hymenoides																																																			0	0	0
Sitanion hystrix																																																			0	0	0
Stipa comata																																																			0	0	0
																																																					0
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	30
																																																					0
Trees																																																					0
Juniper					1	1																								1	1																	1	1		6	12	60
Pinon																																					1														1	2	10
																																																					0
Total Tree Cover	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	7	14	70
																																																					0
Total Vegetation Cover	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	10	20	100
Cryptobiotic																		1																						1						1				1	4	8	
Physical Features																																																					
Litter																					1					1	1		1																						4	8	
Rock									1			1			1	1	1			1			1		1														1												9	18	
Bare Ground	1	1	1	1			1	1		1	1		1						1			1		1								1	1	1	1			1			1	1	1	1	1		1				23	46	
Total Physical Features																																																			36	72	
Comments:	1	1	1	1	3	3	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	3	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1	1	1	3	3	1		100	

Area 3 Cover Summary

Cover Type	Transect #															Site Average	Std. Dev.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Shrubs	36	24	32	32	10	32	22	34	26	20	50	42	56	42	38	33.07	11.85
Forbs	2	2	4	6	4	6	20	4	6	10	0	2	8	10	14	6.53	5.26
Grasses	56	58	42	52	78	46	42	56	54	44	28	48	24	30	40	46.53	13.64
Trees	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Vegetation	94	84	78	90	92	84	84	94	86	74	78	92	88	82	92	86.13	6.30
Cryptobiotic	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0.13	.52
Physical Features	6	16	22	10	8	14	16	6	14	26	22	8	12	18	8	13.73	6.27

Area 6 Cover Summary

Cover Type	Transect #															Site Average	Std. Dev.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Shrubs	28	32	38	28	26	30	50	36	32	44	30	38	34	34	24	33.60	6.90
Forbs	2	0	0	2	0	0	0	0	0	0	0	6	4	0	0	0.93	1.83
Grasses	66	62	52	58	68	56	48	62	68	46	54	44	46	24	64	54.53	11.80
Trees	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Vegetation	96	94	90	88	94	86	98	98	100	90	84	88	84	58	88	89.07	10.02
Cryptobiotic	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0.53	2.07
Physical Features	4	6	10	12	6	14	2	2	0	10	16	12	16	30	12	10.13	7.54

Area 9 Cover Summary

Cover Type	Transect #															Site Average	Std. Dev.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Shrubs	64	46	40	50	52	48	44	48	46	34	40	62	60	66	48	49.87	9.40
Forbs	0	0	6	2	0	2	2	4	0	0	2	0	4	0	2	1.6	1.88
Grasses	26	24	10	10	8	30	8	24	40	52	48	24	20	22	42	25.87	14.27
Trees	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Vegetation	90	70	56	62	60	80	54	76	86	86	90	86	84	88	92	77.33	13.41
Cryptobiotic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Features	10	30	38	38	40	20	46	24	14	14	10	14	16	12	8	22.27	12.80

Area 11/13/14 Cover Summary

Cover Type	Transect #															Site Average	Std. Dev.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Shrubs	14	24	36	46	38	22	28	32	30	22	32	28	28	8	38	24.80	9.66
Forbs	0	4	2	0	2	0	0	4	6	2	0	0	0	0	0	1.33	1.95
Grasses	64	30	50	30	32	42	34	30	32	54	62	50	40	58	34	42.80	12.44
Trees	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Vegetation	78	58	88	76	72	64	62	66	68	78	94	78	68	66	72	72.53	9.72
Cryptobiotic	0	0	0	2	0	0	0	2	0	4	0	0	0	0	0	0.53	1.19
Physical Features	22	42	12	22	28	36	38	32	32	18	6	22	32	34	28	26.93	9.91

Area 15/17 Cover Summary

Cover Type	Transect #															Site Average	Std. Dev.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Shrubs	42	14	38	40	36	42	46	52	50	36	22	24	14	28	30	34.27	11.97
Forbs	0	4	0	0	0	2	0	0	0	0	2	6	2	0	2	1.20	1.82
Grasses	34	44	42	42	44	38	32	28	40	50	42	48	60	36	48	41.87	7.95
Trees	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Vegetation	76	62	80	82	80	82	78	80	90	86	66	78	76	64	80	77.33	7.81
Cryptobiotic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Features	24	38	20	18	20	18	22	20	10	14	34	22	24	36	20	22.67	7.81

Area 16 Cover Summary

Cover Type	Transect #															Site Average	Std. Dev.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Shrubs	16	22	28	26	18	14	8	22	2	20	4	12	4	20	20	15.73	8.17
Forbs	0	0	20	12	20	12	16	14	0	8	0	4	4	2	14	8.4	7.45
Grasses	48	32	36	30	40	24	40	18	62	44	56	38	82	42	40	42.13	15.68
Trees	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Vegetation	64	54	84	68	78	50	64	54	64	72	60	54	90	64	74	66.27	11.61
Cryptobiotic	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	.13	.52
Physical Features	36	46	16	32	22	50	34	46	36	28	40	46	10	36	26	33.60	11.59

Area 3 Cover Data

Horse Canyon Revegetation Project Tally Sheet

Date:	Area:3	Transect:1	UTM:0555236/4367797	Heading:5

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens														1	1				1			1														1	1	1														7	14	14.89
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata								1				1								1	1		1						1																							8	16	17.02
Chrysothamnus nauseosus																																		1																	1	2	2.13
Chrysothamnus viscidiflorus			1																														1																	2	4	4.26
Coleonia mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	18	36	38.30
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa								1																																											0	0	0.00
Melilotus officinalis																																																			1	2	2.13
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.13
Grasses																																																					
Agropyron Smithii		1																																																			
Agropyron spicatum	1			1	1	1	1				1	1				1	1	1						1	1		1																									4	8	8.51
Agropyron cristatum																														1	1	1									1	1				1	1	1		20	40	42.55
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																													1																							4	8	8.51
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	1	1	1	1	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	1	0	1	1	1	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	28	56	59.57
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	47	94	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																					
Bare Ground										1																	1	1																								0	0	
																																																			0	0	
Total Physical Features	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	
																																																			3	6	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	60	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:	Area:3						Transect:2								UTM:0555253/4367787																		Heading:47																				Relative
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Vegetatove
Shrubs																																																					Cover
Atriplex canescens					1	1	1											1						1	1																							1	1		8	16	19.05
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																		1	1	2	2.38
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus									1							1																1																			3	6	7.14
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	12	24	28.57
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																											1								1	2	2.38
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	2.38
Grasses																																																					
Agropyron Smithii																																																			0	0	0.00
Agropyron spicatum	1	1	1							1	1	1	1				1		1	1	1					1	1	1		1				1		1	1	1	1		1	1				1	1				24	48	57.14
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum				1											1								1								1														1						5	10	11.90
Elymus Salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria Jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	0	0	0	0	0	1	1	1	1	0	1	0	1	0	1	1	1	0	1	0	0	1	1	1	0	1	1	0	0	1	0	1	1	1	1	0	1	1	0	0	1	1	1	0	0	0	29	58	69.05
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground								1						1								1							1				1		1					1				1							8	16	
Total Physical Features	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	8	16	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					
Bromus inermis present																																																					
Crested Wheat grass present																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:3** | **Transect:3** | **UTM:0566262/4367798** | **Heading:76**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																											1								1	2	2.56
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1																			1	1												1	1								1	1		1					1	9	18	23.08
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus		1	1	1	1								1			1																																			6	12	15.38
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	18	32	41.03
Forbs & Succulents																																																						
Machaeranthera canescens																																																						
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																			1						1									2	4	5.13
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	4	5.13
Grasses																																																					
Agropyron Smithii																																																					
Agropyron spicatum							1	1	1	1	1	1			1		1		1			1	1						1	1	1	1			1																1	2	2.56
Agropyron cristatum																																								1								1	1				18	36	46.15
Agropyron trachycaulum																																																				0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus Salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria Jamesii																																																			0	0	0.00
Oryzopsis hymenoides						1																																													0	0	0.00
Stanion hystrix																																																			1	2	5.13
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	1	0	1	0	0	1	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	1	0	21	42	53.85
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	39	78	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																																					
Rock																																																				0	0	
Bare Ground													1					1						1	1	1	1	1									1	1	1									1			0	0	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	11	22	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	22	
Comments:																																																			50	100	

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:3** | **Transect:4** | **UTM:0555280** | **Heading:160**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																														1	1	1		3	6	6.67
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1						1															1																									0	0	0.00
Chrysothamnus nauseosus																																																		1	4	8	8.89
Chrysothamnus viscidiflorus								1																																											0	0	0.00
Cowania mexicana																										1				1	1	1					1	1	1							1						9	18	20.00
Coreiodes lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	16	32	35.56
Forbs & Succulents																																																					
Mechaeranthera canescens																																																					
Medicago sativa					1	1																																													0	0	0.00
Melilotus officinalis																1																																				2	4	4.44
Penstemon palmeri																																																			1	2	2.22
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	6.67
Grass																																																					
Agropyron smithii																																																					
Agropyron spicatum	1	1			1							1		1	1			1				1	1	1			1	1	1				1																		0	0	0.00
Agropyron cristatum													1																																							17	34	37.78
Agropyron trachycaulum																																																		1	2	2.22
Bromus tectorum																					1																															0	0	0.00
Elymus salinus			1																																															1	2	2.22
Elymus elmeresus																																																		1	2	2.22
Elymus giganteous																																																		1	2	2.22
Hilaria Jamesii																																																		1	2	2.22
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																			1																															0	0	0.00
Stipa comata																	1																	1	1															1	2	2.22
Total Grass Cover	1	1	1	0	1	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	4	8	8.89
Trees																																																			0	0	0.00
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	45	90	100.00
Cryptobiotic																																																					
Physical Features																																																			0	0	
Litter																																																					
Rock																																																					
Bare Ground							1			1										1													1																		0	0	
																																																			0	0	
Total Physical Features	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5	10	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45	90	
Comments:																																																					
Sitanion hystrix present																																																			80	100	

Horse Canyon Revegatation Project Tally Sheet

Date: | Area:3 | Transect:5 | UTM:0555242/4367805 | Heading:230

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens											1																																								1	2	2.17
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata												1																								1															2	4	4.35
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus						1															1																														2	4	4.35
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	10.87
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																		1	1	2	2.17
Melilotus officinalis																																											1									1	2	2.17
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2	4	4.35
Grasses																																																					
Agropyron smithii																																						1													1	2	2.17
Agropyron spicatum		1	1	1	1		1	1	1	1					1	1	1	1	1	1		1	1	1		1	1	1	1	1	1		1	1	1		1		1	1	1	1					1	1			33	66	71.74
Agropyron cristatum													1	1																																					2	4	4.35
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																	1		1	2	2.17
Elymus giganteus																																																			0	0	0.00
Hilaria Jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																												1							1	2	2.17
Sitanion hystrix																									1																										1	2	2.17
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	1	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	0	1	0	0	1	1	1	0	39	78	84.78
Trees																																																			0	0	0.00
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	46	92	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock	1																																													1					1	2	
Bare Ground																																1													1						3	6	
Total Physical Features	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	4	8	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																						

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:3** | **Transect:6** | **UTM:0555148/4367774** | **Heading:234**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																														1													1								2	4.00	4.76
Atriplex confertifolia																																																			0	0.00	0.00
Artemisia nova																																																			0	0.00	0.00
Artemisia tridentata tridentata																		1	1							1	1	1	1		1	1					1								1		1	1				12	24.00	28.57
Chrysothamnus nauseosus																	1																													1						2	4.00	4.76
Chrysothamnus viscidiflorus																																																			0	0.00	0.00
Cowania mexicana																																																			0	0.00	0.00
Ceratoides lanata																																																			0	0.00	0.00
Ephedra viridis																																																			0	0.00	0.00
Sarcobatus vermiculatus																																																			0	0.00	0.00
Gutierrezia sarothrae																																																			0	0.00	0.00
Total Shrube Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	0	0	0	16	32.00	38.10
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0.00	0.00
Medicago sativa																1																																		1	2	4.00	4.76
Melilotus officinalis																																																			0	0.00	0.00
Penstemon palmeri	1																																																		1	2.00	2.38
Sphaeralcea coccinea																																																			0	0.00	0.00
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6.00	7.14
Grasses																																																					
Agropyron smithii				1			1				1																																									3	6.00	7.14
Agropyron spicatum		1	1		1			1	1	1		1	1							1	1				1								1	1	1	1	1				1	1								18	36.00	42.86
Agropyron trichycaulum																																																			0	0.00	0.00
Bromus tectorum																																																			0	0.00	0.00
Elymus salinus																																								1								1				2	4.00	4.76
Elymus cinereus																																																			0	0.00	0.00
Elymus gigenteous																																																			0	0.00	0.00
Hilaria Jamesii																																																			0	0.00	0.00
Oryzopsis hymenoides																																																			0	0.00	0.00
Sitanion hystrix																																																			0	0.00	0.00
Stipa comata																																																			0	0.00	0.00
Total Grass Cover	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	1	0	0	23	46.00	54.76
Trees																																																					
Juniper																																																					
Pinon																																																			0	0.00	0.00
																																																		0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	42	84.00	100.00
Cryptobiotic																							1																														1	2.00	
Physical Features																																																					
Litter														1																																								
Rock																																																				1	2.00	
Bare Ground						1										1						1		1																												0	0.00	
																																																		1	6	12.00	
Total Physical Features	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	7	14.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	

Comments:

Anaida longipes, Sphaeralcea coccinea, Penstemon palmeri, Sitanion hystrix present

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:3** | **Transect:7** | **UTM:0655169/4367739** | **Heading:318**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Vegetative Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1	1	1		1	1				1																																				6	12.00	14.29
Atriplex confertifolia																																																			0	0.00	0.00
Artemisia nova																																																			0	0.00	0.00
Artemisia tridentata tridentata																														1														1	1				1	1		5	10.00	11.90
Chrysothamnus nauseosus																																																			0	0.00	0.00
Chrysothamnus viscidiflorus																																																			0	0.00	0.00
Cowania mexicana																																																			0	0.00	0.00
Cercidium lanata																																																			0	0.00	0.00
Ephedra viridis																																																			0	0.00	0.00
Sarcobatus vermiculatus																																																			0	0.00	0.00
Gutierrezia sarothrae																																																			0	0.00	0.00
Total Shrubs Cover	0	0	0	0	0	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	11	22.00	26.19
Forbs & Succulents																																																						
Machaeranthera canescens																																																					
Medicago sativa																																	1	1	1	1				1	1	1				1				1	9	18.00	21.43
Melilotus officinalis																																																				0	0.00	0.00
Penstemon palmeri																				1																																1	2.00	2.38
Sphaeralcia coccinea																																																			0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	1	0	0	0	1	16	20.00	23.81
Grasses																																																					
Agropyron Smithii																																																					
Agropyron spicatum		1														1	1	1			1	1		1			1	1	1		1	1					1									1					0	0.00	0.00
Agropyron cristatum																																																				14	28.00	33.33
Agropyron trachycaulum																																																			0	0.00	0.00
Bromus tectorum			1	1	1								1																																						0	0.00	0.00
Elymus Salinus																																																			4	8.00	9.52
Elymus cinereus								1				1																																							0	0.00	0.00
Elymus giganteous																																																			2	4.00	4.76
Hilaria Jamesii																																																			0	0.00	0.00
Oryzopsis hymenoides																																																			0	0.00	0.00
Stanion hystrix																									1																												1	2.00	2.38
Stipa comata																																																			0	0.00	0.00
Total Grass Cover	0	1	1	1	1	0	0	0	1	0	0	1	1	0	0	1	1	1	0	0	1	1	0	1	1	0	1	1	1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	21	42.00	50.00
Trees																																																					
Juniper																																																				0	0.00	0.00
Pinon																																																			0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	42	84.00	100.00
Cryptobiotic																																																				0	0.00	
Physical Features																																																					
Litter																																																					
Rock																																																					
Bare Ground	1												1						1				1			1																						1				2	4.00	
																																					1														6	12.00	
Total Physical Features	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	8	16.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	

Comments:

Oryzopsis hymenoides, Medicago sativa present

Horse Canyon Revegetation Project Tally Sheet

Date: | **Area:3** | **Transect:8** | **UTM:0555183/4367730** | **Heading:13**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens	1																				1						1						1																	4	8.00	8.51
Atriplex confertifolia																																																		0	0.00	0.00
Artemisia nova																																																		0	0.00	0.00
Artemisia tridentata tridentata		1	1																	1						1																									4	8.00	8.51
Chrysothamnus nauseosus																																																		0	0.00	0.00
Chrysothamnus viscidiflorus									1	1				1	1				1						1																											9	18.00	19.15
Cowania mexicana																																											1			1	1				0	0.00	0.00
Coreiotdes lanata																																																		0	0.00	0.00
Ephedra viridis																																																		0	0.00	0.00
Sercobatus vermiculatus																																																		0	0.00	0.00
Gutierrezia sarothrae																																																		0	0.00	0.00
Total Shrubs Cover	1	1	1	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	17	34.00	36.17
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0.00	0.00
Medicago sativa																																				1															2	4.00	4.26
Melilotus officinalis																																																			0	0.00	0.00
Penstemon palmeri																																																			0	0.00	0.00
Sphaeralcia coccinea																																																			0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	4.00	4.26
Grasses																																																					
Agropyron smithii																																																			0	0.00	0.00
Agropyron spicatum				1	1			1			1	1	1				1	1				1	1	1				1	1	1				1			1	1	1		1			1	1			1	1	23	46.00	48.94
Agropyron trachycaulum																																																			0	0.00	0.00
Bromus tectorum																																																			0	0.00	0.00
Elymus elinus																																																			0	0.00	0.00
Elymus cinereus																1																						1													1	2.00	2.13
Elymus giganteus																												1																								2	4.00	4.26
Hilaria jamesii																																																			0	0.00	0.00
Oryzopsis hymenoides																																																			0	0.00	0.00
Stanion hystrix																																																			0	0.00	0.00
Stipa comata																																																			0	0.00	0.00
Bromus japonicus																																																			0	0.00	0.00
																																1		1																2	4.00	4.26
Total Grass Cover	0	0	0	1	1	0	0	1	0	0	1	1	1	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	1	1	0	1	1	1	1	0	1	0	0	1	1	0	0	1	1	28	56.00	59.57
Trees																																																					
Juniper																																																					
Pinon																																																			0	0.00	0.00
																																																			0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	47	94.00	100.00
Cryptobiotic																																																			0	0.00	
Physical Features																																																				
Litter						1																																														
Rock																																																				1	2.00	
Bare Ground							1																																												0	0.00	
																																																		2	4.00	
Total Physical Features	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	6.00	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	

Horse Canyon Revegetation Project Tally Sheet

Date:
Area:3
Transect:9
UTM:0555186/4367735
Heading:282

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatiove Cover
Shrubs																																																				
Atriplex canescens									1					1			1		1					1																											5	10.00	11.63
Atriplex confertifolia																																																		0	0.00	0.00
Artemisia nova																																																		0	0.00	0.00
Artemisia tridentata tridentata														1	1				1															1						1								5	10.00	11.63
Chrysothamnus nauseosus					1																																					1							2	4.00	4.65
Chrysothamnus viscidiflorus																																												1						1	2.00	2.33
Cowania mexicana																																																		0	0.00	0.00
Ceratoides lanata																																																		0	0.00	0.00
Ephedra viridis																																																		0	0.00	0.00
Sarcobatus vermiculatus																																																		0	0.00	0.00
Gutierrezia sarothrae																																																		0	0.00	0.00
Total Shrubs Cover	0	0	0	0	1	0	0	1	0	0	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	13	26.00	30.23
Forbs & Succulents																																																				
Machaeranthera canescens																																																		0	0.00	0.00
Medicago sativa																								1													1												1				3	6.00	6.98
Melilotus officinalis																																																		0	0.00	0.00
Penstemon palmeri																																																		0	0.00	0.00
Sphaeralcia coccinea																																																		0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	6.00	6.98
Grasses																																																				
Agropyron smithii																																																		0	0.00	0.00
Agropyron spicatum		1	1			1	1		1	1								1													1	1	1	1		1			1				1				1			1	1	1	18	36.00	41.86
Agropyron cristatum																																																		0	0.00	0.00
Agropyron trachycaulum																																																		0	0.00	0.00
Bromus tectorum				1							1	1																																						3	6.00	6.98
Elymus salinus																																																		0	0.00	0.00
Elymus cinereus	1																							1												1	1						1					5	10.00	11.63
Elymus giganteus																																																		0	0.00	0.00
Hilaria jamesii																																																		0	0.00	0.00
Oryzopsis hymenoides																				1																														1	2.00	2.33
Sitanion hystrix																																																		0	0.00	0.00
Stipa comata																																																		0	0.00	0.00
Total Grass Cover	1	1	1	1	0	1	1	0	1	1	1	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	1	1	1	1	0	1	0	0	1	1	1	0	1	0	0	0	1	1	0	1	1	1	27	54.00	62.79
Trees																																																				
Juniper																																																		0	0.00	0.00
Pinon																																																		0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	43	86.00	100.00
Cryptobiotic																																																		0	0.00	
Physical Features																																																				
Litter																																																		0	0.00	
Rock																																																		0	0.00	
Bare Ground																					1	1				1	1	1					1							1												7	14.00	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7	14.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																				
Agropyron cristatum present																																																				

Horse Canyon Revegetation Project Tally Sheet

Date:
Area:3
Transect:10
UTM:0555140/4367249
Heading:44

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens										1									1				1																							1					4	8.00	10.81
Atriplex confertifolia																																																			0	0.00	0.00
Artemisia nova																																																			0	0.00	0.00
Artemisia tridentata tridentata								1										1																			1	1	1												5	10.00	13.51
Chrysothamnus nauseosus																																																			0	0.00	0.00
Chrysothamnus viscidiflorus																																																	1		1	2.00	2.70
Cowania mexicana																																																			0	0.00	0.00
Ceratoides lanata																																																			0	0.00	0.00
Ephedra viridis																																																			0	0.00	0.00
Sarcobatus vermiculatus																																																			0	0.00	0.00
Gutierrezia sarothrae																																																			0	0.00	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	1	0	10	20.00	27.03
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0.00	0.00
Medicago sativa																											1					1				1				1								1			5	10.00	13.51
Melilotus officinalis																																																			0	0.00	0.00
Penstemon palmeri																																																			0	0.00	0.00
Sphaeralcea coccinea																																																			0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	5	10.00	13.51
Grasses																																																					
Agropyron smithii																																																			0	0.00	0.00
Agropyron spicatum		1	1			1	1		1				1	1	1		1			1				1	1	1								1	1								1	1	1					1	19	38.00	51.35
Agropyron cristatum																																																			0	0.00	0.00
Agropyron trachycaulum																																																			0	0.00	0.00
Bromus tectorum																													1																						1	2.00	2.70
Elymus salinus																																																			0	0.00	0.00
Elymus cinereus																																																			0	0.00	0.00
Elymus giganteus																																																			0	0.00	0.00
Hilaria Jamesii																																																			0	0.00	0.00
Oryzopsis hymenoides																																	1																		1	2.00	2.70
Sitanion hystrix																																										1									1	2.00	2.70
Stipa comata																																																			0	0.00	0.00
Total Graminoid Cover	0	1	1	0	0	1	1	0	1	0	0	0	1	1	1	0	1	0	0	1	0	0	0	1	1	1	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	22	44.00	59.46
Trees																																																					
Juniper																																																			0	0.00	0.00
Pinon																																																			0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	0	1	1	0	0	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	0	0	1	1	1	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	37	74.00	100.00
Cryptobiotic																																																			0	0.00	
Physical Features																																																					
Litter					1																																														1	2.00	
Rock											1	1																																							2	4.00	
Bare Ground	1			1												1					1	1						1		1	1										1						1				10	20.00	
Total Physical Features	1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	13	26.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																					
Astragalus sp. Present																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:
Area:3
Transect:11
0555426/4368073
Heading:210

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens					1	1	1	1																							1										1	1									7	14.00	17.95
Atriplex confertifolia																																																			0	0.00	0.00
Artemisia nova																																																			0	0.00	0.00
Artemisia tridentata tridentata															1								1	1	1				1	1		1	1	1		1	1	1						1	1	1	1				16	32.00	41.03
Chrysothamnus nauseosus		1																																									1								2	4.00	5.13
Chrysothamnus viscidiflorus																																																			0	0.00	0.00
Cowania mexicana																																																			0	0.00	0.00
Ceratoides lanata																																																			0	0.00	0.00
Ephedra viridis																																																			0	0.00	0.00
Sarcobatus vermiculatus																																																			0	0.00	0.00
Gutierrezia sarothrae																																																			0	0.00	0.00
Total Shrubs Cover	0	1	0	0	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	25	50.00	64.10
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0.00	0.00
Medicago sativa																																																			0	0.00	0.00
Melilotus officinalis																																																			0	0.00	0.00
Penstemon palmeri																																																			0	0.00	0.00
Sphaeralcia coccinea																																																			0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Grasses																																																					
Agropyron smithii																																																			0	0.00	0.00
Agropyron spicatum	1		1							1	1																																							1	5	10.00	12.82
Agropyron cristatum																																																			0	0.00	0.00
Agropyron trachycaulum																																																			0	0.00	0.00
Bromus tectorum																																																			0	0.00	0.00
Elymus salinus																																																			0	0.00	0.00
Elymus cinereus									1					1		1	1	1	1	1								1																							8	16.00	20.51
Elymus giganteous																																																			0	0.00	0.00
Hilaria jamesii																																																			0	0.00	0.00
Oryzopsis hymenoides																																																			0	0.00	0.00
Sitanion hystrix				1																																															1	2.00	2.56
Stipa comata																																																			0	0.00	0.00
Total Grass Cover	1	0	1	1	0	0	0	0	1	1	1	0	0	1	0	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	14	28.00	35.90
Trees																																																					
Juniper																																																			0	0.00	0.00
Pinon																																																			0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	39	78.00	100.00
Cryptobiotic																																																			0	0.00	
Physical Features																																																					
Litter																										1									1					1									1		4	8.00	
Rock																						1																													1	2.00	
Bare Ground												1	1								1						1												1									1			6	12.00	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	11	22.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																					
Melilotus o. present																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:3** | **Transect:12** | **UTM:0555520/4368051** | **Heading:248**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens								1	1	1	1	1					1	1	1	1				1										1																	13	26.00	28.26
Atriplex confertifolia																											1																1								0	0.00	0.00
Artemisia nova																																																			0	0.00	0.00
Artemisia tridentata tridentata		1	1																												1	1			1															6	12.00	13.04
Chrysothamnus nauseosus																																							1	1										1	2	4.00	4.35
Chrysothamnus viscidiflorus																																																			0	0.00	0.00
Cowania mexicana																																																			0	0.00	0.00
Ceratoides lanata																																																			0	0.00	0.00
Ephedra viridis																																																			0	0.00	0.00
Sarcobatus vermiculatus																																																			0	0.00	0.00
Gutierrezia sarothrae																																																			0	0.00	0.00
Total Shrubs Cover	0	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	1	0	0	1	0	0	0	1	1	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	21	42.00	45.65
Forbs & Succulents																																																						
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0.00	0.00
Melilotus officinalis																																																			0	0.00	0.00
Penstemon palmeri																																	1																	1	2.00	2.17
Sphaeralcia coccinea																																																			0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.00	2.17
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum					1								1	1							1						1		1	1	1																						0	0.00	0.00
Agropyron cristatum																																			1	1															1	11	22.00	23.91
Agropyron trachycaulum																																																				0	0.00	0.00
Bromus tectorum	1																																																		0	0.00	0.00
Elymus salinus																																																			1	2.00	2.17
Elymus cinereus							1								1																																					0	0.00	0.00
Elymus gigenteous																						1			1											1								1	1	1	1		1	1	1			12	24.00	26.09
Hilaria jamesii																																																			0	0.00	0.00
Oryzopsis hymenoides																																																		0	0.00	0.00
Stanion hystrix																																																		0	0.00	0.00
Stipa comata																																																		0	0.00	0.00
Total Grass	1	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	1	1	0	1	1	1	0	0	0	0	0	1	1	1	0	0	1	1	1	1	0	1	1	1	0	1	24	48.00	52.17
Trees																																																					
Juniper																																																					
Pinon																																																			0	0.00	0.00
																																																			0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	46	92.00	100.00
Cryptobiotic																																																				0	0.00	
Physical Features																																																					
Litter																																																				0	0.00	
Rock																																																				0	0.00	
Bare Ground				1	1											1					1																															4	8.00	
Total Physical Features	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: | **Area:3** | **Transect:13** | **UTM:0555527/4368036** | **Heading:274**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1	1				1									1	1						1	1	1	1	1					1	1				1				1		1			1	1				18	36.00	40.91
Atriplex confertifolia																																																			0	0.00	0.00
Artemisia nova																																																			0	0.00	0.00
Artemisia tridentata tridentata					1	1				1	1																	1	1	1							1					1									8	16.00	20.45
Chrysothamnus nauseosus																																																			0	0.00	0.00
Chrysothamnus viscidiflorus																																		1																	1	2.00	2.27
Cowania mexicana																																																			0	0.00	0.00
Ceratoides lanata																																																			0	0.00	0.00
Ephedra viridis																																																			0	0.00	0.00
Sarcobatus vermiculatus																																																			0	0.00	0.00
Gutierrezia sarothrae																																																			0	0.00	0.00
Total Shrubs Cover	1	1	1	0	1	1	1	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	0	1	1	0	0	0	0	28	56.00	63.64
																																																					0.00	0.00
Forbs & Succulent																																																					0	0.00	0.00
Machaeranthera canescens																																																				0	0.00	0.00
Medicago sativa																																																				0	0.00	0.00
Melilotus officinalis																																			1	1																2	4.00	4.55
Penstemon palmeri																						1						1																										2	4.00	4.55
Sphaeralcia coccinea																																																				0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8.00	9.09
Grasses																																																						
Agropyron smithii																																																					0	0.00	0.00
Agropyron spicatum												1	1	1				1	1																																			8	16.00	18.18
Agropyron cristatum																																																				0	0.00	0.00
Agropyron trachycaulum																																																				0	0.00	0.00
Bromus tectorum																																																				0	0.00	0.00
Elymus salinus																																																				0	0.00	0.00
Elymus cinereus															1						1																																	0	0.00	0.00
Elymus giganteus																																																				4	8.00	9.09
Hilaria jamesii																																																				0	0.00	0.00
Oryzopsis hymenoides																																																				0	0.00	0.00
Stanion hystrix																																																				0	0.00	0.00
Stipa comata																																																				0	0.00	0.00
																																																				0	0.00	0.00
Total Grasses	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0	12	24.00	27.27
Trees																																																					
Juniper																																																					
Pinon																																																				0	0.00	0.00
																																																			0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	44	88.00	100.00
Cryptobiotic																																																						
																																																				0	0.00	
Physical Features																																																					
Litter																																																				0	0.00	
Rock																																																					
Bare Ground				1				1	1											1																																1	2.00	
																																																			1	5	10.00	
Total Physical Features	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	6	12.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date:	Area:3	Transect:14	UTM:0555512/4368018	Heading:16	Coordinates:		Relative
Plant Species	1 2 3 4 5 6	7 8 9 10 11 12 13 14	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	33 34 35 36 37 38 39 40	41 42 43 44 45 46 47 48 49 50 Total	Percent Cover	Vegetative Cover
Shrubs							
Atriplex canescens		1 1	1 1 1 1 1	1 1	12	24.00	29.27
Atriplex confertifolia					0	0.00	0.00
Artemisia nova					0	0.00	0.00
Artemisia tridentata tridentata	1	1 1 1 1 1		1	8	16.00	19.51
Chrysothamnus nauseosus	1				1	2.00	2.44
Chrysothamnus viscidiflorus					0	0.00	0.00
Cowania mexicana					0	0.00	0.00
Ceratoides lanata					0	0.00	0.00
Ephedra viridis					0	0.00	0.00
Sarcobatus vermiculatus					0	0.00	0.00
Gutierrezia sarothrae					0	0.00	0.00
Total Shrubs Cover	0 1 0 1 0 0	0 1 1 1 1 1 1 1	1 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 1 1	1 0 0 0 0 1 0 0 1 0 21	42.00	51.22
Forbs & Shrubs							
Machaeranthera canescens							
Medicago sativa					0	0.00	0.00
Melilotus officinalis					0	0.00	0.00
Penstemon palmeri				1 1 1 1	1 4	10.00	12.20
Sphaeralcia coccinea					0	0.00	0.00
Total Forb Cover	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 0 0 0	0 0 0 0 1 0 0 0 0 0 5	10.00	12.20
Grasses							
Agropyron smithii							
Agropyron spicatum					0	0.00	0.00
Agropyron cristatum					0	0.00	0.00
Agropyron trachycaulum			1 1 1 1		1 1 4	8.00	19.51
Bromus tectorum					0	0.00	0.00
Elymus salinus					0	0.00	0.00
Elymus cinereus	1	1 1 1 1			0	0.00	0.00
Elymus giganteous				1	1	2.00	2.44
Hilaria jamesii					0	0.00	0.00
Oryzopsis hymenoides					0	0.00	0.00
Sitanion hystrix					0	0.00	0.00
Stipa comata					0	0.00	0.00
Bromus inermis					0	0.00	0.00
Total Grasses	0 0 1 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 1 1 1 0 0 1 1 1 1 1 0 0 0 0 0 0	0 0 0 0 0 1 0 0	0 1 1 1 0 0 1 1 0 0 15	30.00	36.59
Trees							
Juniper							
Pinon					0	0.00	0.00
Total Tree Cover	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0.00	0.00
Total Vegetation Cover	0 1 1 1 1 0	0 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 0 41	82.00	100.00
Cryptobiotic					0	0.00	
Physical Features							
Litter	1 1				2	4.00	
Rock					0	0.00	
Bare Ground	1	1	1 1 1 1		7	14.00	
Total Physical Features	1 0 0 0 1 1	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0.00	
	1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 9	18.00	
Comments:					1 1 1 1 1 1 1 1 1 1 50	100.00	
Cliffrose present							

Horse Canyon Revegetation Project Tally Sheet

Date:
Area:3
Transect:15
UTM:0555511/4368061
Heading:238

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens									1	1	1			1							1	1		1						1				1																	9	18.00	19.57
Atriplex confertifolia																																																			0	0.00	0.00
Artemisia nova																																																			0	0.00	0.00
Artemisia tridentata tridentata													1										1			1	1	1	1																						6	12.00	13.04
Chrysothamnus nauseosus																																																			0	0.00	0.00
Chrysothamnus viscidiflorus																																									1		1	1		1					4	8.00	8.70
Cowania mexicana																																																			0	0.00	0.00
Ceratoides lanata																																																			0	0.00	0.00
Ephedra viridis																																																			0	0.00	0.00
Sarcobatus vermiculatus																																																			0	0.00	0.00
Gutierrezia sarothrae																																																			0	0.00	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	19	38.00	41.30
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0.00	0.00
Medicago sativa																																																			0	0.00	0.00
Melilotus officinalis	1	1			1																												1		1				1	1											7	14.00	15.22
Penstemon palmeri																																																			0	0.00	0.00
Sphaeralcia coccinea																																																			0	0.00	0.00
Total Forb Cover	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	7	14.00	15.22
Grasses																																																					
Agropyron smithii																																																			0	0.00	0.00
Agropyron spicatum			1	1			1	1				1			1	1																										1							1		9	18.00	19.57
Agropyron cristatum																																																			0	0.00	0.00
Agropyron trachycaulum																																																			0	0.00	0.00
Bromus tectorum																																					1								1		1	1			4	8.00	8.70
Elymus salinus																																																			0	0.00	0.00
Elymus cinereus																	1	1	1	1																1															5	10.00	10.87
Elymus giganteus																																																			0	0.00	0.00
Hilaria jamesii																																																			0	0.00	0.00
Oryzopsis hymenoides																																																			0	0.00	0.00
Sitanion hystrix																																						1													1	2.00	2.17
Stipa comata																																																			0	0.00	0.00
Vulpia octaflora																									1																										1	2.00	2.17
Total Grass Cover	0	0	1	1	0	0	1	1	0	0	0	1	0	0	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	1	0	1	1	1	0	20	40.00	43.48
Trees																																																			0	0.00	0.00
Juniper																																																			0	0.00	0.00
Pinon																																																			0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	46	92.00	100.00
Cryptobiotic																																																			0	0.00	
Physical Features																																																					
Litter						1																										1																			2	4.00	
Rock																																																			0	0.00	
Bare Ground																															1																			1	2	4.00	
Total Physical Features	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																					
Curly cup gum weed present																																																					
Canada thistle present																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: | **Area:6** | **Transect:1** | **UTM:0555414/4368143** | **Heading:60**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1						1			1		1					1	1	1	1	1				1								1	1													12	24	26.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus					1																																														1	2	2.08
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																														1						1	2	2.08
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0		14	28	29.17
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																		1	1	2	2.08
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		1	2	2.08
Grasses																																																					
Agropyron cristi																																																				0	0	0.00
Agropyron spicatum	1	1	1	1							1		1	1		1		1			1						1	1	1		1			1	1			1	1			1	1	1			1	1	1	1		24	48	50.00
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum							1	1	1	1									1	1												1						1					1								9	18	18.75
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigenteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	0	0	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	0	0	0	0	0	1	1	1	0	1	0	0	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	0	33	66	66.75
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		46	96	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																				0	0	
Rock																																																			0	0	
Bare Ground																															1	1																			2	4	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		2	4	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		50	100	
Comments:																																																					
Deer pellets present																																																					
Generally drier; seems more cheat grass, not as effective as "3" across the canyon																																																				
Yellow clover present																																																				
Penstemon palmeri present																																																				

Horse Canyon Revegetation Project Tally Sheet

Date: Area:6 Transect:2 UTM:0555449/4368153 Heading:90

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens										1	1	1	1	1			1	1	1								1	1	1			1	1			1					1										15	30	31.91
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																		1																	1	2	2.13
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	16	32	34.04
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
																																																				0	0.00
Grasses																																																			0	0	0.00
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1	1	1					1								1				1	1			1	1	1				1	1				1															1	14	28	29.79
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum				1	1	1	1		1						1							1															1	1	1	1		1	1	1	1	1		1			17	34	36.17
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	1	1	1	0	1	1	1	0	0	0	1	1	0	0	0	1	0	1	1	1	1	0	1	1	1	1	1	0	1	0	1	31	62	65.96
Trees																																																			0	0	0.00
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	47	94	100.00
Criptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																															1				1	2	
Bare Ground																							1																										1		2	4	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	3	6	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Snake weed present, Japanese brome present																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:6** | **Transect:3** | **UTM:0566475/4368152** | **Heading:234**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens												1				1	1	1					1				1																			1	1			5	16	17.78
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata													1											1		1																							1	4	8	8.89
Chrysothamnus nauseosus																						1																												1	2	2.22
Chrysothamnus viscidiflorus																												1						1					1	1						1				5	10	11.11
Coweria mexicana																																																		0	0	0.00
Ceratoides lanata																			1																															1	2	2.22
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1	1	1	1	0	19	38	42.22
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum									1	1											1			1				1	1			1			1	1			1	1			1	1					1	16	32	36.56
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum			1					1	1					1	1																																			0	0	0.00
Elymus salinus																																																		5	10	11.11
Elymus cinereus																																																		0	0	0.00
Elymus giganteus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides				1	1	1	1																																											0	0	0.00
Sitanion hystrix																																	1																	5	10	11.11
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	0	1	1	1	0	1	1	1	0	0	1	1	0	1	1	0	0	0	0	1	26	52	57.78
Trees																																																				
Juniper																																																				
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	45	90	100.00
Criptobiotic																																																				
																																																		0	0	
Physical Features																																																				
Litter		1																																																		
Rock																														1																			1	2	
Bare Ground	1																		1																															1	2	
Total Physical Features	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	6	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	10	
Comments:																																																		50	100	
Curlycup gum weed present																																																				

Horse Canyon Revegetation Project Tally Sheet

Date:	Area:6						Transect:4								UTM:0555444/4368140																		Heading:110																				Relative
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Vegetative
Shrubs																																																					Cover
Atriplex canescens																																													1						1	2	2.27
Atriplex confertifolia																																																			0	0	0.00
Atriplex cuneata																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata					1																																		1	1						1					4	8	9.09
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																				1			1	1					1						1	1	1				1										8	16	18.18
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																															1				1	2	2.27
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Unknown Buckwheat																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	1	1	1	0	0	0	14	28	31.82
Forbs & Succulents																																																					
Macheeranthera canescens																																																			0	0	0.00
Medicago sativa																																	1																		1	2	2.27
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.27
Grasses																																																						
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1	1	1	1		1	1		1	1	1	1	1	1		1											1	1		1	1			1																1	19	38	43.18
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum								1																																											1	2	2.27
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																												1							1	2	2.27
Elymus giganteus																									1																	1									2	4	4.55
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																			1			1																1													3	6	6.82
Sitanion hystrix																																																			0	0	0.00
Stipa comata																		1			1																														2	4	4.55
Bromus japonicus															1																																				1	2	2.27
Total Grass Cover	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	0	1	0	1	1	0	1	1	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	1	29	58	65.91
Trees																																																						
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	44	88	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																											1								1	2	
Rock																																																			0	0	
Bare Ground																	1									1						1																1	1		5	10	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	6	12	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:6** | **Transect:5** | **UTM:0555488/4368128** | **Heading:222**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																								1					1																						2	4	4.26
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata		1	1	1												1			1				1																												6	12	12.77
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus	1																																			1			1	1												5	10	10.64
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0	13	26	27.66
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum					1	1	1	1	1	1	1	1	1	1	1		1	1		1					1	1	1	1							1															0	0	0.00
Agropyron cristatum																																																			1	20	40	42.55
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus cellnus																														1							1				1		1	1	1	1			1		7	14	14.89
Elymus cinereus																																																				1	2	2.13
Elymus gigenteus																																																			0	0	0.00
Galeta Grass																																																			0	0	0.00
Hilaria jamesil																																																			0	0	0.00
Oryzopsis hymenoides																					1	1																															0	0	0.00
Sitanion hystrix																																	1									1						1			5	10	10.64
Stipa comata																																		1																		1	2	2.13
Total Grass Cover	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0	0	1	1	1	1	0	0	1	0	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1	1	34	68	72.34
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	47	94	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																				0	0	
Rock																														1																						1	2	
Bare Ground																																																				0	0	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	6	
Total																																																			80	100	

Unknown grass #3, unknown grass #4(Texine?), Unknown grass #5 (dense head - cured seed head only), yellow clover, weed, unknown #6 (rye) present

Unknown #6 (mollis), Unknown astragalus (purple poker, Hedysarum boreale, sweet retch), Salina Wild Rye, Curly cup gum present

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:6** | **Transect:6** | **UTM:0565528/4368127** | **Heading:312**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens										1	1	1										1	1	1													1	1					1							9	18	20.93
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1					1							1																												1	1	1						6	12	13.95
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	1	0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	0	0	0	16	30	34.88
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum			1				1						1	1	1		1	1	1		1				1	1	1	1		1	1																			1	16	32	37.21
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum					1																												1	1								1							5	10	11.63
Elymus salinus																																																			3	6	6.98
Elymus cinereus																																1			1	1														3	6	6.98
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			1	2	2.33
Total Grass Cover	0	0	1	0	1	0	1	0	0	0	0	0	1	1	1	0	1	1	1	0	1	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	1	1	1	0	0	0	0	1	1	1	26	56	65.12
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	43	86	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																				1																																			
Rock																																																			1	2	
Bare Ground	1	1				1		1																					1																						0	0	
Total Physical Features	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	6	12	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	14	
Comments:																																																			50	100	
Sysimbrium altissima - Tumble mustard present																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:6** | **Transect:7** | **UTM:0566504/4368197** | **Heading:178**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1												1	1		1	1	1			1	1																				1	1		1	1		13	26	26.53
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1			1	1								1	1			1					1																											7	14	14.29
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																	1																		1	2	2.04
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata		1	1						1			1																																								4	8	8.16
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	1	1	0	1	1	1	1	0	0	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	25	50	51.02
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum											1				1																1	1	1		1																		0	0	0.00
Agropyron cristatum																												1	1	1		1				1	1	1	1	1	1	1	1	1			1			1	17	34	34.69
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum	1				1					1			1	1																																							0	0	0.00
Elymus elinus																																		1																		6	12	12.24
Elymus cinereus																								1																													0	0	0.00
Elymus giganteus																																																			1	2	2.04
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	1	0	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	24	48	48.98
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	49	98	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																																					
Rock																																		1																		1	2	
Bare Ground																																																				0	0	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:6** | **Transect:8** | **UTM:0555560/4368172** | **Heading:327**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens													1			1										1											1					1								6	12	12.24
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova			1	1																																														2	4	4.08
Artemisia tridentata tridentata		1													1																								1											6	12	12.24
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Cerstoides lanata	1				1	1		1																																											4	8	8.16
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	1	1	1	1	1	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	0	1	1	0	18	36	36.73
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																											1	1	1																								0	0	0.00
Agropyron cristatum																																																			4	8	8.16
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum							1		1	1	1	1		1				1	1	1	1	1	1	1	1					1	1	1	1	1	1	1	1				1	1	1							0	0	0.00
Elymus elimus																																																			27	54	55.10
Elymus cinereus																																																			0	0	0.00
Elymus gigenteus																																																			0	0	0.00
Hilaria Jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	1	0	1	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	0	1	1	1	0	0	1	31	62	63.27
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	49	98	100.00
Cryptobiotic																																																					
																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock																	1																																			0	0	
Bare Ground																																																				1	2	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
Comments:																																																			50	100	
Penstemon palmeri present																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:
Area:6
Transect:9
UTM:0555561/4368193
Heading:56

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens												1												1	1	1										1										1	1				7	14	14.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1								1																		1										1					1		1	1			1			8	16	16.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																											1								1	2	2.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	1	1	0	0	16	32	32.00
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcea coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum											1								1	1	1																													1	5	10	10.00
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum		1	1	1	1	1	1	1		1			1	1	1	1	1	1				1	1					1	1	1	1	1	1	1	1			1	1	1	1								1		29	58	58.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria Jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	34	68	68.00
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground																																																			0	0	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					
Old cattle sign																																																					
Lots of Cheat grass																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:6** | **Transect:10** | **UTM:0555696/4368166** | **Heading:250**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens							1													1					1												1													5	10	11.11
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova								1						1	1	1						1														1												1			8	16	17.78
Artemisia tridentata tridentata	1	1			1													1						1			1																							6	12	13.33
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus			1																																														1	2	2.22
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																					1																													1	2	4	4.44
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	1	1	0	1	0	1	1	0	0	0	0	0	1	1	1	0	1	0	1	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0	0	1	0	1	22	44	48.89
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum				1								1	1																																							0	0	0.00
Agropyron cristatum									1																			1																							5	10	11.11
Agropyron trachycaulum																																																			1	2	2.22
Bromus tectorum						1				1	1							1								1			1		1	1	1	1	1															0	0	0.00
Elymus salinus																																																			17	34	37.78
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	1	0	1	0	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	1	1	0	0	1	1	1	0	1	0	0	1	1	1	0	0	0	23	46	51.11
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	45	90	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																				
Rock																																																			0	0	
Bare Ground																			1				1							1																					0	0	
Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	5	10	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date:	Area:6	Transect: 11	UTM:0555553/4368185	Heading:30			Relative
Plant Species	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Total	Percent Cover	Vegetative Cover
Shrubs							
Atriplex canescens	1 1 4	4	8	9.52
Atriplex confertifolia	0	0	0.00
Artemisia nova	0	0	0.00
Artemisia tridentata tridentata	1 1 1 1 1 1 1 1 1 1 1 1 10	10	20	23.81
Chrysothamnus nauseosus	1 1	1	2	2.38
Chrysothamnus viscidiflorus	0	0	0.00
Cowania mexicana	0	0	0.00
Ceratoides lanata	0	0	0.00
Ephedra viridis	0	0	0.00
Sarcobatus vermiculatus	0	0	0.00
Gutierrezia sarothrae	0	0	0.00
Total Shrubs Cover	0 1 0 1 1 0 1 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 0 0 0 1	15	30	35.71
Forbs & Succulents				
Machaeranthera canescens	0	0	0.00
Medicago sativa	0	0	0.00
Melilotus officinalis	0	0	0.00
Penstemon palmeri	0	0	0.00
Sphaeralcia coccinea	0	0	0.00
Total Forb Cover	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0.00
Grasses				
Agropyron smithii			
Agropyron spicatum	1 1 0	0	0.00
Agropyron cristatum	1 1 1 1 1 1 1 1 1 10	10	20	23.81
Agropyron trachycaulum	0	0	0.00
Bromus tectorum	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0	0	0.00
Elymus salinus	1 1 1 1 1 1 1 1 1 17	17	34	40.48
Elymus cinereus	0	0	0.00
Elymus giganteus	0	0	0.00
Hilaria jamesii	0	0	0.00
Oryzopsis hymenoides	0	0	0.00
Sitanion hystrix	0	0	0.00
Stipa comata	0	0	0.00
Total Grass Cover	1 0 1 0 0 1 0 0 1 1 1 0 0 0 1 1 1 1 0 1 1 1 1 0 1 0 1 1 0 0 1 1 0 0 0 0 0 1 1 1 0 0 1 0 1 1 1 0 1 0	27	54	64.29
Trees				
Juniper			
Pinon	0	0	0.00
Total Tree Cover	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0.00
Total Vegetation Cover	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 0 1 1 1 1 1 1 0 0 1 1 0 1 1 1 0 1 1 0 1 1 1 0 1 1	42	84	100.00
Cryptobiotic				
	0	0	
Physical Features				
Litter				
Rock	1	0	0	
Bare Ground	1	2	4	
Total Physical Features	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 1 0 0 1 0 0 0 1 0 0 1 0 0 0 1	6	12	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8	16	
Comments:		50	100	

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:6** | **Transect:12** | **UTM:0555581/4368228** | **Heading:72**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1																																																	1	2	2.27
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1				1				1	1													1	1			1	1																								6	18	18.18
Chrysothamnus nauseosus																																												1							1	2	2.27
Chrysothamnus viscidiflorus																1		1	1						1	1																1	1	1	1							9	18	20.45
Cowania mexicana																																																			0	0	0.00
Cercidoles lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	19	38	43.18
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																					1	1		1											3	6	6.82
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	3	6	6.82
Grasses																																																						
Agropyron smithii																					1																																			
Agropyron spicatum															1																																						1	2	2.27
Agropyron cristatum																																																				1	2	2.27
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum												1	1	1						1									1			1	1	1	1	1															0	0	0.00
Elymus salinus																																																				16	32	36.36
Elymus cinereus																																																				0	0	0.00
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																														1	1																						0	0	0.00
Stanion hystrix																																																				2	4	4.55
Stipa comata											1																																									0	0	0.00
Bromus inermis																	1																																			1	2	2.27
Total Graminoid Cover	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	22	44	50.00
Trees																																																					
Juniper																																																						
Pinon																																																					
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44	88	100.00
Cryptobiotic																																																					
																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock																																																			0	0	
Bare Ground			1	1		1	1	1														1																													0	0	
Total Physical Features	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	12	
Comments:																																																			50	100	

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:6** | **Transect:13** | **UTM:0565597/4368189** | **Heading:250**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																													1	1			1									1	1	1	1								
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova			1			1																1	1																												4	8	9.52
Artemisia tridentata tridentata							1				1							1							1																1								1		6	12	14.29
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																	0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	1	0	17	34	40.48
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Sisymbrium altissimum																											1	1																							2	4	4.76
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4.76
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum	1							1				1		1					1																																5	10	11.90
Agropyron cristatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum				1					1	1					1	1	1			1											1	1		1	1		1	1	1		1				1	1	1			18	36	42.86
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus gigenteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Stanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Graminoid Cover	1	0	0	1	0	0	0	1	1	1	0	1	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	1	1	0	1	0	0	0	0	1	1	1	0	0	23	46	54.76
Trees																																																				
Juniper																																																				
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	42	84	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																			
Litter																																																			
Rock																																																		0	0	
Bare Ground		1			1								1								1			1		1										1													0	0	
Total Physical Features	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	8	16	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	16	
Comments:																																																		50	100	

Horse Canyon Revegatation Project Tally Sheet

Date:6/23/03 | **Area:6** | **Transect:14** | **UTM:0656617/4368219** | **210**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																		0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																									1						1									1							1	1		5	10	17.24
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus						1	1		1			1							1													1						1	1										8	16	27.59
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																1	1			1																		1													4	8	13.79
Total Shrubs Cover	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	0	17	34	58.62
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum	1	1		1						1	1																																								0	0	0.00
Elymus salinus																																	1	1	1															8	16	27.59
Elymus cinereus																																																		0	0	0.00
Elymus giganteus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides													1									1	1																													0	0	0.00
Stanion hystrix																																	1																	4	8	13.79
Stipa comata																																																		0	0	0.00
Total Graminoid Cover	1	1	0	1	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	41.38
Trees																																																					
Juniper																																																					
Pinon																																																		0	0	0.00
																																																	0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	0	1	1	0	1	1	1	1	0	1	0	1	1	1	0	1	0	1	1	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	29	58	100.00
Cryptobiotic																								1		1	1	1																							4	8	
Physical Features																																																				
Litter			1																1																																	
Rock																																																		2	4	
Bare Ground					1			1					1		1						1									1	1																						
Total Physical Features	0	0	1	0	1	0	0	1	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	15	30	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17	34	
Comments:																																																		50	100	

Horse Canyon Revegatation Project Tally Sheet

Date:6/23/03 | **Area:6** | **Transect:15** | **UTM:0555550/4368179** | **Heading:240**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1	1																							1																						3	6	6.82
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1																																1																		3	6	6.82
Chrysothamnus nauseosus																																			1	1															2	4	4.55
Chrysothamnus viscidiflorus													1			1																																			1	3	6	6.82
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata		1																																																	1	2	2.27
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	12	24	27.27
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum								1	1	1			1				1	1		1		1				1	1																									0	0	0.00
Agropyron cristatum																																																				10	20	22.73
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum			1				1								1				1					1				1		1	1	1	1		1															0	0	0.00
Elymus Salinus																																																				21	42	47.73
Elymus cinereus						1																																													0	0	0.00
Elymus giganteous																																																			1	2	2.27
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	0	0	1	1	1	1	1	0	0	1	0	1	0	1	1	1	1	0	1	0	1	0	1	1	1	0	1	1	1	1	0	1	0	0	1	1	1	1	1	1	1	1	0	0	1	1	0	32	64	72.73
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44	88	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																					1		1		1																												3	6	
Rock											1	1																																								2	4	
Bare Ground																																																			1	2	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6	12	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Area 6 Cover Data

Horse Canyon Revegetation Project Tally Sheet

Date:6/23/03 | Area:7 | Transect:1 | UTM:0565377/4368072 | Heading:51

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens					1	1	1	1							1		1	1					1				1		1		1		1									1				1	1	1		19	38	42.22
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata														1	1				1		1	1		1	1	1		1		1		1							1												12	24	26.67
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																													1						1	2	2.22
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	0	0	0	1	1	0	0	1	1	1	32	64	71.11
Forbs & Succulents																																																						
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum	1	1		1					1		1		1																						1																0	0	0.00
Elymus salinus																																																				12	24	26.67
Elymus cinereus																																																				0	0	0.00
Elymus glaucus																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
																																																				1	2	2.22
Total Grass Cover	1	1	0	1	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	1	0	0	1	1	0	0	0	13	26	28.89
Trees																																																					
Juniper																																																						
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45	90	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																																					
Rock																																		1																	1	2	
Bare Ground			1							1		1								1																																0	0	
																																																			4	8	
Total Physical Features	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Revegetation Project Tally Sheet

Date:6/23/03 | Area:7 | Transect:2 | UTM:0585537/4368085 | Heading:0

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																				1	1	1																					1	1							1	6	12	17.14
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova													1	1																																					2	4	5.71
Artemisia tridentata tridentata	1		1						1	1																1					1	1	1			1	1	1												11	22	31.43
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus				1	1	1																																												3	6	8.57
Cowania mexicana																																																			0	0	0.00
Coretoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																									1										1	2	2.86
Total Shrubs Cover	1	0	1	1	1	1	0	0	1	1	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	1	23	46	65.71
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																			1						1	1		1		1	1																					0	0	0.00
Elymus salinus																																																				7	14	20.00
Elymus cinereus																																																				5	10	14.29
Elymus gigarteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	12	24	34.29
Trees																																																					
Juniper																																																						
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	1	1	1	1	0	0	1	1	0	0	1	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	0	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	35	70	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter							1	1																																													
Rock																																																				2	4	
Bare Ground		1								1	1				1	1	1	1					1	1				1							1	1				1											0	0	
Total Physical Features	0	1	0	0	0	0	1	1	0	1	1	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	13	26	
	1	1	1	1	1	1	1	1	1	2	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					



Horse Canyon Revegetation Project Tally Sheet

Date:6/23/03 | Area:7 | Transect:3 | 0568350/4368682 | Heading:25

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																								1	1									2	4	7.14
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata						1							1										1				1	1		1				1	1				1								1	1	11	22	39.29
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus				1	1																											1					1				1	1		1					7	14	25.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	1	1	1	0	0	1	0	1	0	1	1	1	1	0	1	0	0	1	1	20	40	71.43
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																			1	1																															2	4	7.14
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri	1																																																		1	2	3.57
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	10.71
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum										1		1						1			1																															4	8	14.29
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigantecus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			1	2	3.57
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5	10	17.86
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	1	1	1	0	0	0	1	0	1	1	0	0	0	0	1	1	1	1	0	1	0	0	0	1	1	0	1	0	1	1	1	0	0	1	0	1	0	1	1	1	1	0	1	0	1	1	1	28	56	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																		1																		1															3	6	
Rock																																																			0	0	
Bare Ground		1	1				1	1	1		1			1	1	1							1		1	1	1			1		1				1		1						1		1				19	38	
Total Physical Features	0	1	1	0	0	0	1	1	1	0	1	0	0	1	1	1	1	0	0	0	0	1	0	1	1	1	0	0	1	0	1	0	0	0	1	1	0	1	0	1	0	0	0	0	1	0	1	0	0	0	22	44	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:6/23/05 | Area:7 | Transect:4 | UTM:0555371/4389091 | Heading:36

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																	1	1	1		1	1	1								1				7	14	22.58
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova										1																																									1	2	3.23
Artemisia tridentata tridentata	1						1	1																				1			1											1	1	1	1	1			1	1	1	13	26	41.94
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus			1	1																					1	1																									4	8	12.90
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	0	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0	1	1	1	0	1	1	1	0	1	1	1	1	1	0	1	1	1	1	25	50	80.65
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa		1																																																	1	2	3.23
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.23
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																												1	1		1					1											1					5	10	16.13
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigantecus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanlon hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5	10	16.13
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	31	62	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter					1	1							1																																								3	6	
Rock																																																				1	2	
Bare Ground									1		1	1		1	1	1	1	1	1	1	1	1	1	1			1																									15	30	
Total Physical Features	0	0	0	0	1	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	19	38	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:8/23/03 | Area:7 | Transect:5 | UTM:0585354/4388081 | Heading:93

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																	1	1																	2	4	6.67
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																						1			1																		1								3	6	10.00
Artemisia tridentata tridentata				1	1	1			1		1			1	1	1	1		1		1							1	1					1	1	1												1	17	34	56.67
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																								1	1						1	1		4	8	13.33
Cowania mexicana																																																		0	0	0.00
Corstolides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	1	1	1	0	0	1	0	1	0	0	1	1	1	1	1	0	1	0	1	1	0	0	1	0	0	0	1	1	0	0	1	1	1	1	1	0	0	1	1	0	0	1	0	0	1	1	0	1	26	52	86.67
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum												1																																							1	2	4	6.67
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																						1				1								2	4	6.67
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigenteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	4	8	13.33
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	1	1	1	0	0	1	0	1	1	0	1	1	1	1	1	0	1	0	1	1	0	0	1	0	0	0	1	1	0	0	1	1	1	1	1	0	1	1	1	0	1	1	0	0	1	1	1	1	30	60	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter							1			1			1																			1	1					1												6	12	
Rock																																																			0	0	
Bare Ground	1	1	1					1										1		1				1	1			1	1	1													1				1	1				14	28	
Total Physical Features	1	1	1	0	0	0	1	1	0	1	0	0	1	0	0	0	0	1	0	1	0	0	1	1	0	1	1	1	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	0	0	0	20	40	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet																																																					
6/23/2003	Area:7						Transect:8								UTM:0555391/4368082																		Heading:207																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens							1	1	1	1	1															1																									6	12	15.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata													1	1								1		1				1	1	1				1				1	1		1				1						12	24	30.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																1	1			1												1	1																		5	10	12.50
Cowania mexicana					1																																														1	2	2.50
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	0	1	1	1	1	1	0	1	1	0	1	1	0	0	1	0	1	0	1	0	1	0	1	1	1	0	1	1	1	0	0	0	1	1	0	1	0	0	0	1	0	0	0	0	0	24	48	60.00
Forbs & Succulents																																																					
Machaeranthera canescens																																																					
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
																																				1															1	2	2.50
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.50
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																		1	1	2	2.50
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus	1	1	1	1		1						1							1								1													1		1	1			1	1		1		14	28	35.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																				0	0	0.00
																																																			0	0	0.00
Total Grass Cover	1	1	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	1	0	1	1	15	30	37.50
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	0	1	0	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1	1	0	1	1	1	0	1	1	40	80	100.00
Cryptobiotic																																																						
																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock															1										1						1													1				1			5	10	
Bare Ground																																																			0	0	
																		1			1		1												1		1														5	10	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	10	20	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Area 7 Cover Data

Horse Canyon Revegetation Project Tally Sheet

Date:6/23/03 | Area:7 | Transect:7 | UTM:0565384/4368074 | Heading:205

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1															1	1																															3	6	11.11
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata		1				1		1			1	1	1	1				1							1	1	1						1	1		1		1				1					1	1		18	36	66.67
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus					1																																													1	2	3.70
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	1	0	1	1	1	0	1	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	1	0	0	0	0	1	1	0	22	44	81.48
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																			1																1	2	3.70
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.70
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																		1	1	2	3.70
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum	1														1						1																															0	0	0.00
Elymus salinus																																																			3	6	11.11
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	14.81
Trees																																																					
Juniper																																																						
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	1	0	1	0	0	1	1	1	1	1	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	1	0	1	0	0	0	1	0	0	0	0	1	1	1	27	54	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter			1						1	1							1					1																																	
Rock																																																			1	6	12
Bare Ground							1									1							1	1			1	1	1	1	1				1		1		1		1	1	1		1		1	1			0	0
																																																			17	34
Total Physical Features	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	1	0	1	0	1	1	1	0	1	1	1	1	0	0	0	23	46	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:6/23/03 | Area:7 | Transect:8 | 6565380/4368078 | Heading:30

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1	1		1	1																						1																						6	12	15.79
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova								1																1																											2	4	5.26
Artemisia tridentata tridentata	1								1	1		1	1	1			1					1	1				1	1		1	1			1		1					1										16	32	42.11
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0	0	1	0	0	0	0	1	1	1	0	0	1	1	1	1	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	24	48	63.16
Forbs & Succulents																																																						
Mecheeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sisymbrium altissimum																																					1		1												0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5.26
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																		1	1	2	2.63
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum			1				1													1					1	1						1	1																		0	0	0.00
Elymus salinus																																																			10	20	26.32
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	1	12	24	31.58
Trees																																																					
Juniper																																																					
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	1	1	1	1	0	0	0	1	1	1	38	76	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock																		1	1		1														1			1		1						1	1	1				9	18	
Bare Ground											1				1	1																																				0	0	
																																																			3	6	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1	1	1	0	0	0	12	24	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:8/23/03 | Area:7 | Transect:9 | UTM:0555374/4386886 | Heading:99

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1	1											1	1				1																														5	10	11.63
Atriplex confertifolia																																																				0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata										1	1	1	1		1														1	1				1	1			1		1	1		1	1	1						15	30	34.88
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																															1	1				2	4	4.65
Cowania mexicana																									1																											1	2	2.33
Ceretoides lenata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	1	1	0	0	0	0	1	1	1	1	0	1	1	1	0	0	0	1	0	0	0	1	0	0	0	0	1	1	0	0	1	1	0	0	1	0	1	1	0	1	1	1	0	1	1	0	0	23	46	53.49
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																		1	2	4	4.65
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum	1	1	1				1	1		1				1					1	1			1	1			1		1			1	1			1	1											1		18	36	41.86
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	0	0	1	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	1	1	0	0	1	0	1	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	1	20	40	46.51
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	43	86	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter								1											1				1								1								1													5	10	
Rock																										1																										1	2	
Bare Ground																																																				1	2	
Total Physical Features	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	7	14	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:6/23/03 | Area:7 | Transect:10 | UTM:0555984/4388080 | Heading:107

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1													1	1		1									1	1			1	1	1																		9	18	20.93
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1		1				1							1			1	1							1																							7	14	16.28
Chrysothamnus nauseosus																																													1						1	2	2.33
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	1	0	1	0	1	0	0	0	1	0	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	17	34	39.53
Forbs & Succulents																																																					
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																								1	1																												0	0	0.00
Agropyron cristatum																																																			3	6	6.98
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum			1		1			1	1		1		1	1					1			1				1				1				1	1		1	1	1	1										0	0	0.00
Elymus salinus																																																			19	38	44.19
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
																																										1	1	1	1						4	8	9.30
Total Grass Cover	0	0	1	0	1	0	0	1	1	0	1	0	1	1	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	1	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	0	1	0	1	1	28	52	60.47
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	43	88	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter	1						1				1																																									
Rock																																	1			1															6	12	
Bare Ground																							1																													0	0	
																																																		1	2	
Total Physical Features	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	7	14	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					
Deer Sign present																																																					
Tumble mustard present																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:6/23/03 | Area:7 | Transect:11 | UTM:0555483/4388093 | Heading:40 | Coordinates:88/10

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens								1	1						1	1				1			1		1								1		1		1	1	1	1			1	1							15	30	33.33
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata		1									1		1															1																							4	8	8.89
Chrysothamnus nauseosus																								1																											1	2	2.22
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	1	0	0	0	0	0	1	1	0	1	0	1	0	1	1	0	0	0	1	0	0	1	1	1	0	0	1	0	0	0	0	0	1	0	1	0	1	1	1	1	0	0	1	1	0	0	0	0	0	20	40	44.44
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sisymbrium altissimum	1																																																		1	2	2.22
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.22
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum														1																																						1	2	2.22
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum			1	1	1		1			1		1					1		1			1	1				1	1		1	1	1		1		1													0	0	0.00
Elymus salinus																																										1	1				1	1		1	23	46	51.11
Elymus cinereus																																																			0	0	0.00
Elymus gigenteaus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	1	1	0	1	0	0	1	0	1	0	1	0	0	1	0	1	0	1	1	0	0	0	1	1	0	1	1	1	0	1	0	1	0	1	0	0	0	0	1	1	0	0	0	1	1	0	1	24	48	53.33
Trees																																																					
Juniper																																																					
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	45	90	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter						1																																															
Rock																		1														1																1			5	10	
Bare Ground																																																				0	0	
Total Physical Features	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	5	10	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	60	100	

Horse Canyon Revegetation Project Tally Sheet

Date:6/23/03 | Area:7 | Transect:12 | UTM:0565448/4368108 | Heading:36 | Coordinates:0/68

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens					1	1	1				1	1		1	1	1	1		1						1	1								1	1					1										15	30	34.88
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata		1		1									1						1		1				1				1			1					1	1					1	1			1	1			14	28	32.56
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																1							1										2	4	4.65
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	1	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	1	1	1	0	0	1	1	0	1	1	1	1	0	0	1	0	0	1	1	0	0	1	1	0	0	31	62	72.09
																																																			0	0.00
Forbs & Succulents																																																			0	0.00
Machaeranthera canescens																																																		0	0.00
Medicago sativa																																																		0	0.00
Melilotus officinalis																																																		0	0.00
Penstemon palmeri																																																		0	0.00
Sphaeralcia coccinea																																																		0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																		2	4	4.65
Agropyron orietatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum	1		1							1										1					1				1	1			1										1				1				10	20	23.26
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Stanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	12	24	27.91
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	43	88	100.00
Cryptobiotic																																																		0	0
Physical Features																																																				
Litter								1	1													1	1													1						1								6	12	
Rock																																																			0	0	
Bare Ground																																																	1	1	2	
Total Physical Features	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	7	14	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegetation Project Tally Sheet

Date: 6/23/03 | Area: 7 | Transect: 15 | UTM: 0555433/4368075 | Heading: 210 | Coordinates: 0/14

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens							1																				1							1	1		1	1	1	1							1	1			10	20	23.81
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata		1		1	1			1	1	1	1	1	1	1				1					1	1	1				1	1	1									1	1	1								20	40	47.62
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	0	1	1	0	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	0	0	30	60	71.43
Forbs & Succulents																																																						
Machaeranthera canescens																																																						
Medicago sativa																																																			0	0	0.00
Medicago L.																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sisymbrium altissimum																						1																													1	1	2	2.38
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2.38
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum	1		1			1									1	1		1	1										1	1																					0	0	0.00
Elymus salinus																																			1																	10	20	23.81
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20	23.81
Trees																																																					
Juniper																																																						
Pinon																																																						
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter															1						1		1				1																										6	12	
Rock																																																				0	0	
Bare Ground																																																				2	4	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	8	16	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Revegetation Project Tally Sheet

Date: 6/23/03 | Area: ? | Transect: 14 | UTM: 0555445/4388067 | Heading: 99 | Coordinates: 54/17

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens			1	1			1	1					1	1				1	1				1					1	1	1	1	1	1	1			1	1	1				1	1	1	1	1		24	48	54.55
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata															1						1	1	1		1												1					1								7	14	15.91
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus						1																						1																						2	4	4.55
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	1	1	0	1	1	1	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	0	0	1	1	1	1	1	0	33	66	75.00
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron orletatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum		1			1				1	1	1	1				1									1	1											1							1							11	22	25.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus pigenteaus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanton hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	11	22	25.00
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	0	44	88	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter	1																																			1														2	4	
Rock																																																				0	0	
Bare Ground																		1										1																						1	4	8	
Total Physical Features	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	6	12	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Globe Mallow present

Horse Canyon Revegetation Project Tally Sheet

Date:6/23/03 | Area:7 | Transect:15 | UTM:0555439/4358050 | Heading:61 | Coordinates:26/59

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1	1			1	1	1		1	1															1		1			1								1			1								13	26	28.26
Atriplex confertifolia																																																				0	0	0.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata																1					1	1		1	1						1								1	1				1			1				10	20	21.74
Chrysothamnus nauseosus																																																				0	0	0.00
Chrysothamnus viscidiflorus																											1																										1	2	2.17
Cowania mexicana																																																				0	0	0.00
Ceratoides lanata																																																				0	0	0.00
Ephedra viridis																																																				0	0	0.00
Sarcobatus vermiculatus																																																				0	0	0.00
Gutierrezia sarothrae																																																				0	0	0.00
Total Shrubs Cover	0	0	0	1	1	0	0	1	1	1	0	1	1	0	0	1	0	0	0	0	1	1	0	1	1	0	1	1	0	1	1	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	0	1	0	0	24	48	52.17
Forbs & Succulents																																																						
Machaeranthera canescens																																																						
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Sisymbrium altissimum																																																				0	0	0.00
																																														1							1	2	2.17
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2	2.17
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum																																	1																				0	0	0.00
Agropyron cristatum																																																					2	4	4.35
Agropyron trachycaulum																																																				0	0	0.00
Bromus tectorum	1	1	1							1			1	1		1	1	1	1				1			1						1				1	1	1													0	0	0.00
Elymus salinus																																																				17	34	36.96
Elymus cinereus																																																			0	0	0.00
Elymus glaucus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																												1																									1	2	2.17
Stipa comata							1																																													0	0	0.00
																																																				1	2	2.17
Total Grass Cover	1	1	1	0	0	0	1	0	0	0	1	0	0	1	1	0	1	1	1	1	0	0	1	0	0	1	0	0	1	0	0	1	1	0	0	1	1	1	0	0	0	0	1	0	0	0	1	0	0	0	21	42	45.65
Trees																																																					
Juniper																																																						
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	46	92	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter						1																																															
Rock																																												1								2	4	
Bare Ground																																																		1			1	2	
Total Physical Features	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	8	
Comments:																																																				50	100	

Area 11/13/14 Cover Data

Horse Canyon Revegetation Project Tally Sheet

Area:11 | Transect:1 | UTM:0554819 / 4367537 | Heading:43

Date:6/27/03 / Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																							1	1						1																			1	1	6	12	15.38
Atriplex canescens																																										1									1	2	2.56
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata					1																																												1	2	2.56
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																				
Total Shrube Cover	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	7	14	17.95
Forbs & Succulents																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Salsola kali																																																		0	0	0.00
Sphaeralcia coccinea																																																				
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																		0	0	0.00
Agropyron smithii																																																		28	52	66.67
Agropyron spicatum		1	1						1	1	1	1	1	1	1	1		1		1	1	1			1		1			1	1	1	1		1		1			1			1	1	1				0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																	1										1									1		1	1								1				6	12	15.38
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Sporobolus cryptandrus																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	1	1	1	0	0	1	1	1	1	0	0	0	32	64	82.05
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	39	78	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter				1				1											1							1																		1					1			6	12	
Rock	1																																		1																2	4	
Bare Ground						1	1																					1																						3	6	
Total Physical Features	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	11	22	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegetation Project Tally Sheet

Date: 6/27/03 | Area: 11 | Transect: 2 | UTM: 0554848 / 4587587 | Heading: 72

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1								1	1	1			1												1																		1	1	1				9	18	31.03
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata														1										1		1																									3	6	10.34
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	12	24	41.38
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																	1	1																																		2	4	6.90
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Salsola kali																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6.90
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum			1	1	1				1																																										0	0	0.00
Agropyron cristatum																											1						1	1	1	1				1								1	1	12	24	41.38
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																				1								1						2	4	6.90
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Sporobolus cryptandrus																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Bromus japonicus																																																			0	0	0.00
																																																		1	2	3.45
Total Grass Cover	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	1	0	1	0	0	0	0	1	1	0	0	0	1	1	15	30	51.72
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	0	0	0	1	1	1	1	0	1	1	0	1	1	0	0	0	0	0	1	0	1	1	0	1	0	0	0	1	1	1	1	0	1	0	1	0	0	0	1	1	1	1	1	1	1	29	58	100.00
Cryptobiotic																																																					
Physical Features																																																			0	0	
Litter																																																					
Rock																																1																			1	2	
Bare Ground	1				1	1	1						1			1			1	1	1	1	1			1			1		1	1					1		1												0	0	
																																				1			1		1	1	1							20	40	
Total Physical Features	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	1	0	0	1	1	1	1	1	0	1	0	0	1	0	1	1	1	0	0	0	1	0	1	0	1	1	1	1	0	0	0	0	0	0	0	21	42	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Revegetation Project Tally Sheet

Date: 6/27/03 | Area: 11 | Transect: 3 | UTM: 0554864 / 4387557 | Heading: 58

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens								1	1	1			1	1	1	1	1	1	1	1	1								1				1																		14	28	31.82
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																											1								1	2	2.27
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus		1																																							1					1				3	6	6.82
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	16	36	40.91
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis	1																																																		1	2	2.27
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.27
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum			1	1	1																		1		1			1			1																				11	22	25.00
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum						1	1				1	1										1		1						1		1		1																11	22	25.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanton hystrix																																																			0	0	0.00
Sporobolus cryptandrus																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Bromus inermis																										1																											0	0	0.00
																																																			1	3	6	6.82
Total Grass Cover	0	0	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	0	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1		25	50	56.82
Trees																																																					
Juniper																																																						
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	0	1	1		44	88	100.00
Cryptobiotic																																																					
Physical Features																																																				0	0	
Litter																																																					
Rock																										1																									2	4	
Bare Ground																																																			0	0	
																																																			4	8	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	1	0	0	6	12	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:6/27/03 | Area:11 | Transect:4 | UTM:0584931 / 4367529 | Heading:91

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens							1	1				1	1			1	1										1	1			1	1	1																	11	22	26.85
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																1	1	2	4	5.26
Chrysothamnus nauseosus																					1																						1	1	1	1					5	10	13.16
Chrysothamnus viscidiflorus																																				1		1			1	1								4	8	10.53
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																														1																				1	2	2.63
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	1	0	1	0	0	1	1	0	1	1	1	1	1	23	46	60.53
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1	1	1	1	1	1				1	1													1			1				1																			11	22	28.95
Agropyron orientalum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																				1																															1	2	2.63
Elymus elirus																																																		0	0	0.00
Elymus cinereus															1											1																								3	6	7.89
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Stanion hystrix																																																		0	0	0.00
Sporobolus cryptandrus																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	1	1	1	1	1	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	15	30	39.47
Trees																																																					
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	0	1	1	0	0	1	0	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	0	1	1	1	1	1	1	38	76	100.00
Cryptobiotic																																			1																1	2	
Physical Features																																																					
Litter														1									1			1									1																4	8	
Rock																																																			0	0	
Bare Ground									1									1	1				1															1				1			1						7	14	
Total Physical Features	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	11	22	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Penstemon palmeri present, signs of cattle grazing

Horse Canyon Revegetation Project Tally Sheet

Date:8/27/03 | Area:11 | Transect:5 | UTM:0564832 74367504 | Heading:252

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																								1	1	1	1	1								1	1													7	14	19.44
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																1	1	1				1	1																													5	10	13.89
Chrysothamnus nauseosus	1	1	1	1	1	1																																													6	12	16.67
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																				1																																1	2	2.78
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	19	38	52.78
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Euphorbia fendleri								1																																											1	2	2.78
Total Forb Cover	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.78
Grasses																																																					
Agropyron smithii																														1																							
Agropyron spicatum											1	1																																								1	2	2.78
Agropyron cristatum																																	1	1		1	1					1	1	1	1		1				11	22	30.56
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus									1	1			1																																						0	0	0.00
Elymus gigenteous																																																			3	6	8.33
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Sporobolus cryptandrus																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Bromus inermis																													1																								0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	1	1	0	0	0	0	1	1	1	1	0	1	0	0	0	1	2	2.78
Trees																																																			16	32	44.44
Juniper																																																					
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	0	0	1	1	1	1	0	1	0	0	0	36	72	100.00
Cryptobiotic																																																						
Physical Features																																																			0	0	
Litter														1	1																1																							
Rock																																																				1	4	8
Bare Ground							1												1		1									1						1																1	2	
Total Physical Features	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	1	1	1	1	0	0	0	1	0	1	1	1	9	18	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	28	
Comments:																																																			50	100	
Medicago sativa, Yellow Astragulus, Snake Weed present																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: 6/27/03 | Area: 11 | Transect: 6 | UTM: 0654885 4367450 | Heading: 196

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens								1																											1																	2	4	6.25
Atriplex confertifolia																																																				0	0	0.00
Atriplex corrugata																																																				0	0	0.00
Atriplex cuneata																																																				0	0	0.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata			1	1																																					1	1					1	1	1	1	8	16	25.00
Chrysothamnus nauseosus																																			1																	1	2	3.13
Chrysothamnus viscidiflorus																																																				0	0	0.00
Cowania mexicana																																																				0	0	0.00
Ceratoides lanata																																																				0	0	0.00
Ephedra viridis																																																				0	0	0.00
Sarcobatus vermiculatus																																																				0	0	0.00
Gutierrezia sarothrae																																																				0	0	0.00
Total Shrubs Cover	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	11	22	34.38
Forbs & Succulents																																																						
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum																			1	1	1	1	1	1		1		1		1	1		1	1				1													13	26	40.63
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																				0	0	0.00
Bromus tectorum												1																																		1						2	4	6.25
Elymus salinus	1	1																																																		2	4	6.25
Elymus cinereus																																																				0	0	0.00
Elymus giganteus																	1																																				1	2	3.13
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides											1					1																																					2	4	6.25
Sitanion hystrix																																																				0	0	0.00
Sporobolus cryptandrus																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Vulpia octoflora																									1																												1	2	3.13
Total Grass Cover	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	21	42	65.63
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	0	1	0	0	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	1	1	0	1	0	0	1	1	0	0	1	1	1	1	1	0	32	64	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																						
Litter									1						1														1				1																		5	10	
Rock																																																					2	4	
Bare Ground					1	1	1			1			1	1				1								1													1	1											1	11	22	
Total Physical Features	0	0	0	0	1	1	1	0	1	1	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	1	0	1	1	0	0	1	1	0	0	0	0	0	1	18	36	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Medicago sativa, Penstemin Palmeri present

Horse Canyon Revegetation Project Tally Sheet

Date: 6/27/03 | Area: 11 | Transect: 7 | UTM: 0554964 / 4387487 | Heading: 95

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1				1								1	1	1	1																												1			1		1	1	10	20	32.26
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																									1						1																				2	4	6.45
Chrysothamnus viscidiflorus																			1																																1	2	3.23
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																									1																										1	2	3.23
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	14	28	45.16
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																1																			1	2	4	6.45
Agropyron spicatum				1				1			1						1				1	1						1		1						1				1				1							12	24	38.71
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus cellnus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigantecus																																																			1	2	3.23
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides									1																			1																							2	4	6.45
Stanion hystrix																																																			0	0	0.00
Sporobolus cryptandrus																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	1	0	0	0	1	1	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	1	0	0	0	1	0	0	1	1	0	0	1	0	0	1	0	1	0	0	17	34	54.84
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	1	1	0	0	1	1	0	1	0	1	1	1	1	1	0	1	0	1	1	0	0	1	1	1	1	1	0	1	1	0	0	0	1	0	0	1	1	0	0	1	1	0	1	1	1	1	1	31	62	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter			1							1																																	1								3	6	
Rock																																																				0	0	
Bare Ground		1				1	1					1						1		1			1						1				1	1	1		1	1			1			1						16	32	
Total Physical Features	0	1	1	0	0	1	1	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	0	1	0	0	1	1	1	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	19	38	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Chrysothamnus viscidiflorous, Medicago sativa, Sarcobatus vermiculatus present

Horse Canyon Revegetation Project Tally Sheet

Date:6/27/03 | Area:11 | Transect:8 | UTM:0564835 / 4367575 | Heading:48

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1																								1									1	1	1															5	10	15.15
Atriplex confertifolia																																																				0	0	0.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata				1																												1		1					1		1	1			1	1			1	1	9	18	27.27
Chrysothamnus nauseosus																																																				0	0	0.00
Chrysothamnus viscidiflorus																																						1	1													2	4	6.06
Coleria mexicana																																																				0	0	0.00
Cerstoides lanata																																																				0	0	0.00
Ephedra viridis																																																				0	0	0.00
Sarcobatus vermiculatus																																																				0	0	0.00
Gutierrezia sarothrae																																																				0	0	0.00
Total Shrubs Cover	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	1	1	0	0	0	1	1	18	32	48.48
Forbs & Succulents																																																						
Machaeranthera canescens																																																						
Medicago sativa	1																																1																			0	0	0.00
Melilotus officinalis																																																				2	4	6.06
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
																																																				0	0	0.00
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6.06
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum														1				1				1						1		1																							0	0	0.00
Agropyron cristatum																																																				6	12	18.18
Agropyron trachycaulum																																																				0	0	0.00
Bromus tectorum			1			1		1	1				1					1				1				1																											0	0	0.00
Elymus salinus																																																				8	16	24.24
Elymus cinereus												1																																									0	0	0.00
Elymus gigenteous																																																				1	2	3.03
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Stenion hystrix																																																				0	0	0.00
Sporobolus cryptandrus																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
																																																				0	0	0.00
Total Grass Cover	0	0	1	0	0	1	0	1	1	0	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	15	30	45.45
Trees																																																						
Juniper																																																						
Pinon																																																				0	0	0.00
																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	1	0	1	1	0	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	0	1	1	33	66	100.00
Cryptobiotic					1																																															1	2	
Physical Features																																																						
Litter															1														1																										
Rock																																											1	1								4	8	
Bare Ground							1			1	1					1			1	1				1	1			1				1																1		1			0	0	
																																																				12	24	
Total Physical Features	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	16	32	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																						

Horse Canyon Revegetation Project Tally Sheet

Date: 6/27/03 | Area: 11 | Transect: 8 | UTM: 0564824 / 4367404 | Heading: 84

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																		1						1	1										1		1									1	1	1			9	18	26.47
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1	1																													1	1							1												5	10	14.71
Chrysothamnus nauseosus						1																																													1	2	2.94
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	1	0	1	0	1	0	1	0	0	0	0	1	1	1	0	0	15	30	44.12
Forbs & Succulents																																																						
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa										1	1	1																																									3	6	8.82
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	8.82
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum																										1																			1	1					1	4	8	11.76
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum													1		1			1		1		1	1	1					1	1															1				1		11	22	32.35
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigantcous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Sporobolus cryptandrus																																																			0	0	0.00
Bromus japonicus																																																			1	2	2.94
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1	1	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	0	0	1	1	16	32	47.06
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	0	0	1	0	0	0	1	1	1	1	0	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	0	0	1	0	1	1	1	0	1	1	1	0	1	1	1	1	1	1	34	68	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter			1																											1							1					1								5	10	
Rock																																																				0	0	
Bare Ground				1	1		1	1	1					1		1					1						1						1	1																11	22	
Total Physical Features	0	0	1	1	1	0	1	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	1	1	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	16	32	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: 6/27/03 | Area: 11 | Transect: 10 | UTM: 0554848 / 4387405 | Heading: 62

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1				1													1													1	1			1														6	12	15.38
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1																															1															2	4	5.13
Chrysothamnus nauseosus																																					1	1	1												3	6	7.69
Chrysothamnus viscidiflorus																																																		0	0	0.00
Coweria mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
																																																		0	0	0.00
Total Shrubs Cover	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	11	22	28.21
Forbs & Succulents																																																						
Machaeranthera canescens																																																						
Medicago sativa	1																																																		0	0	0.00
Melilotus officinalis																																																			1	2	2.56
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
																																																		0	0	0.00
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.56
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum			1				1		1	1	1					1																																				0	0	0.00
Agropyron striatum																																																		1	1			8	16	20.51
Agropyron trachycaulum																																																					0	0	0.00
Bromus tectorum												1		1		1	1	1				1	1	1	1	1	1	1		1	1			1																		0	0	0.00
Elymus salinus																																																				19	38	48.72
Elymus cinereus																																																			0	0	0.00
Elymus gigenteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
																																																		0	0	0.00
Total Grass Cover	0	0	1	0	0	0	1	0	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	27	54	69.23
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	1	1	0	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	1	0	0	39	78	100.00
Cryptobiotic																				1	1																																		
																																																				2	4	
Physical Features																																																					
Litter																																																					
Rock																																																					
Bare Ground					1			1					1																1																								3	6	
																																					1														0	0	
Total Physical Features	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	1	1	6	12	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9	18	
Comments:																																																			80	100	
Tumble Mustard																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: 8/27/03 | Area: 11 | Transect: 11 | UTM: 0564544 / 4367284 | Heading: 84

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia		1	1			1	1	1			1								1	1									1	1								1							1	1				13	28	27.66
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																										1		1				1			3	6	6.38
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Cerstoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	1	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	0	0	16	32	34.04
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum					1				1							1					1																															4	8	8.51
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum	1									1		1	1	1	1		1	1				1	1	1	1	1	1	1			1	1	1	1	1		1	1		1		1		1						1	26	52	55.32
Elymus salinus																																					1														1	2	2.13
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Sporobolus cryptandrus																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	0	1	0	1	0	0	0	0	0	1	31	62	65.96
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	47	94	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			1	1	2
Rock				1																																															1	1	2
Bare Ground																																																		1	1	2
Total Physical Features	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	3	6	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Cliff Rose, Crested Wheat Grass present

Horse Canyon Revegetation Project Tally Sheet

Date:6/27/03 | Area:11 | Transect:11 | UTM:0554648/4387235 | Heading:96

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																			1												1	1			1	1		1	1											8	16	20.51
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata													1							1																																2	4	5.13
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																					1	1						1		1																						4	8	10.26
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrube Cover	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0	1	1	1	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	14	28	35.90
Forbs & Succulents																																																						
Globe Mallow																																																						
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum		1			1																	1	1	1																											0	0	0.00
Agropyron striatum																																	1							1				1	1	1	1			11	22	28.21
Agropyron trachycaulum																																																				0	0	0.00
Bromus tectorum	1				1		1		1			1			1	1	1	1									1		1																							0	0	0.00
Elymus salinus																																																			1	12	24	30.77
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																	1																		1	2	2.56
Sporobolus cryptandrus																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Vulpia octoflora			1																																																0	0	0.00
Total Grass Cover	1	1	1	0	1	1	1	0	1	0	0	1	0	0	1	1	1	1	0	0	0	0	1	1	1	0	1	0	1	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	1	1	1	0	1	1	2	2.56
Trees																																																			28	50	64.10
Juniper																																																						
Pinon																																																						
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	1	1	1	0	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	36	78	100.00
Cryptobiotic																																																						
Physical Features																																																			0	0	
Litter																																																						
Rock																										1																				1						2	4	
Bare Ground				1				1		1	1			1																			1																		0	0	
Total Physical Features	0	0	0	1	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	9	18	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	22	
Comments:																																																			50	100	
Elymus cinereus																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: 6/27/03 | Area: 11 | Transect: 13 | UTM: 0564613 / 4367332 | Heading: 118

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens					1	1	1				1																	1	1						1	1	1							1								10	20	29.41
Atriplex confertifolia																																																			1	1	2	2.94
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus														1	1																																					2	4	5.88
Cowania mexicana																																																				0	0	0.00
Ceratoides lanata																											1																										1	2	2.94
Ephedra viridis																																																				0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	14	28	41.18
Forbs & Succulents																																																							
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Salsola kali																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum								1	1																1					1			1									1		1				1				0	0	0.00
Agropyron cristatum												1								1		1	1																														9	18	26.47
Agropyron trachycaulum																																																				4	8	11.76
Bromus tectorum								1									1	1																																				0	0	0.00
Elymus salinus																																																				5	10	14.71
Elymus cinereus																																																				0	0	0.00
Elymus gigenteus																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Stipion hybrix		1	1																																																	2	4	5.88
Sporobolus cryptandrus																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	0	1	1	0	0	0	0	1	1	1	0	1	0	0	0	0	1	1	0	1	0	1	1	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	1	0	1	0	1	0	1	0	0	1	20	40	58.82
Trees																																																						
Juniper																																																						
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	0	1	1	0	1	0	1	1	1	0	1	0	1	1	1	1	1	0	0	0	1	0	1	1	1	0	1	0	1	1	34	68	100.00
Cryptobiotic																																																						
Physical Features																																																				0	0	
Litter													1						1						1																													4	8	
Rock																																																				0	0	
Bare Ground	1			1												1					1					1				1				1		1								1				1			12	24	
Total Physical Features	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	1	1	1	0	1	0	0	0	1	0	1	0	0	18	32	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																						
Agropyron Cristatum																																																						

Horse Canyon Revegetation Project Tally Sheet

Date: 8/27/03 | Area: 11 | Transect: 14 | UTM: 0564609 / 4387291 | Heading: 86

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia		1	1		1	1																																												4	8	12.12
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Coreiolides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12.12
Forbs & Succulents																																																						
Mechaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum	1							1		1																					1																				1	2	3.03
Agropyron cristatum																												1										1													5	10	15.15
Agropyron trachycaulum																						1																													1	2	3.03
Bromus tectorum				1								1	1			1				1	1			1		1			1		1						1	1												0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus elymoides															1		1																																		12	24	36.36
Elymus gigantaeus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			2	4	6.06
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	1	0	0	0	1	0	1	0	1	1	0	1	1	1	0	0	1	1	1	0	1	0	1	0	1	0	1	1	1	0	0	0	1	1	1	0	1	0	1	1	1	1	0	1	1	1	0	29	58	87.88
Trees																																																					
Juniper																																																					
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	0	1	0	1	0	1	1	0	1	1	1	0	0	1	1	1	0	1	0	1	0	1	0	1	1	1	0	0	0	1	1	1	0	1	0	1	1	1	1	0	1	1	1	0	33	66	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter							1				1								1				1						1																							5	10	
Rock													1																																							1	2	
Bare Ground								1										1							1		1							1	1	1			1		1					1				11	22	
Total Physical Features	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0	0	1	1	0	0	0	1	0	1	0	1	0	1	0	0	0	1	1	1	0	0	1	0	1	0	1	0	0	0	1	0	0	0	1	17	34	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:6/27/03 | Area:11 | Transect:16 | UTM:0654659 / 4367289 | Heading:51

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1								1				1	1								1		1	1				1	1																						9	18	25.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																														1																					0	0	0.00
Chrysothamnus nauseosus																																																			1	2	2.78
Chrysothamnus viscidiflorus																																																			0	0	0.00
Coweria mexicana																																																			0	0	0.00
Cerstoides lanata																																	1																			0	0	0.00
Ephedra viridis																																																			1	2	2.78
Sarcobatus vermiculatus																				1						1											1															0	0	0.00
Gutierrezia sarothrae																																								1	1	1	1				1					6	16	22.22
																																																			0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	1	0	1	1	1	0	0	1	1	1	0	1	0	0	1	0	0	0	1	1	1	1	0	0	0	1	0	0	0	19	38	52.78
Forbs & Succulents																																																						
Mechaeranthera canescens																																																						
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum		1		1	1		1	1		1	1				1			1					1					1																								0	0	0.00
Agropyron cristatum																																		1		1															13	26	36.11
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																1			1		1																															0	0	0.00
Elymus salinus																																																			3	6	8.33
Elymus cinereus																																																			0	0	0.00
Elymus gigenteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																								1											1	2	2.78
Sporobolus cryptandrus																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
																																																			0	0	0.00
Total Grass Cover	0	1	0	1	1	0	1	1	0	1	1	0	0	0	1	1	0	1	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	17	34	47.22
Trees																																																						
Juniper																																																						
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	0	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	1	0	1	1	1	1	1	0	0	0	1	0	0	0	36	72	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter			1									1						1								1					1																					13	26	
Rock																																																				0	0	
Bare Ground					1																																														1	2	
Total Physical Features	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	1	1	0	1	1	1	0	14	28	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Area 15/17 Cover Data

Horse Canyon Cover Sheet

Date:6/19/03	Area:16/17						Transect:1								UTM:0553833/4366978																		Heading:90																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																												1																		1		1	1		4	8	10.53
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata					1							1				1									1				1				1			1		1		1		1		1						1	12	24	31.58
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus									1								1			1	1													1																	5	10	13.16
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1	1	0	0	1	1	0	0	0	1	0	0	1	1	0	0	0	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	1	1	21	42	55.26
Forbs																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum															1																																				1	2	2.63
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum	1			1		1	1				1		1											1						1	1	1			1		1		1				1		1		1				16	32	42.11
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	1	0	1	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	1	0	1	0	1	0	0	0	1	0	1	0	1	0	0	0	17	34	44.74
Trees																																																						
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	1	1	1	1	0	1	0	1	1	1	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	38	76	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																						
Litter																																																			0	0	
Rock																											1																								1	2	
Bare Ground		1	1					1		1				1				1	1			1	1			1															1										11	22	
Total Physical Features	0	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12	24	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					
Yellow Clover present																																																					

Horse Canyon Cover Sheet

Date:6/19/03 | Area:15/17 | Transect:2 | UTM:0553871/4366994 | Heading:266

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens		1											1			1					1																													4	8	12.90
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																			1					1											3	6	9.68
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	7	14	22.58
Forbs																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			1	1	2	3.23
Melilotus officinalis																																																			1	1	2	3.23
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	4	6.45
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum								1	1			1		1					1					1	1				1																	1					9	18	29.03
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum	1		1				1													1		1											1					1	1			1		1						10	20	32.26
Elymus salinus																																																			0	0	0.00
Elymus cinereus																											1																									1	2	3.23
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																				1											1				2	4	6.45
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	1	0	0	0	1	1	1	0	0	1	0	1	0	0	0	1	0	1	0	1	0	1	1	0	1	0	0	1	0	0	1	0	0	1	0	1	1	0	1	0	1	0	0	1	1	0	0	0	22	44	70.97
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	0	1	1	1	0	0	1	1	1	0	1	0	1	0	1	1	1	0	1	1	0	1	0	0	1	0	0	1	0	1	1	0	1	1	1	1	0	1	0	0	1	1	1	1	1	31	62	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter															1																																						1	2	
Rock																																																				0	0	
Bare Ground				1	1	1				1	1							1		1				1			1			1		1	1		1	1		1			1				1		1	1				18	36	
Total Physical Features	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	0	1	0	1	0	0	0	1	0	0	1	0	1	1	0	1	1	0	1	0	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	19	38	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Cover Sheet

Date:6/19/03	Area:16/17						Transect:3								UTM:0553965/4367037																		Heading:254																					
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens	1		1				1	1												1	1	1	1			1	1	1	1			1																			13	26	32.50
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																1																	1		1		1	1													5	10	12.50
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae									1																																										1	2	2.50
Total Shrubs Cover	1	0	1	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	19	38	47.50
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum														1	1		1	1																								1	1	1					1	1	9	18	22.50
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum		1		1	1	1				1	1		1												1						1								1		1										11	22	27.50
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Bromus japonicus																								1																											1	2	2.50
Total Grass Cover	0	1	0	1	1	1	0	0	0	1	1	0	1	1	1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	1	1	21	42	52.50
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1	0	1	1	1	1	0	0	0	0	1	1	40	80	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																		1																	1	2	
Rock																																																			0	0	
Bare Ground												1							1											1						1				1					1	1	1	1			9	18	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	1	1	1	1	0	0	10	20	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Cover Sheet

Date:6/19/03 | Area:15/17 | Transect:4 | UTM:0553974/4387020 | Heading:304

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens					1		1																										1	1			1	1	1						1	1				9	18	21.95
Atriplex confertifolia											1																																							1	2	2.44
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata					1				1	1					1		1					1	1	1	1								1																		10	20	24.39
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	0	1	1	1	1	0	0	0	1	0	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	20	40	48.78
Forbs & Succulents																																																						
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum	1			1																																															0	0	0.00
Agropyron cristatum																																																			5	10	12.20
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum							1							1		1		1			1					1	1	1			1	1				1	1													0	0	0.00
Elymus salinus																																										1	1	1	1						16	32	39.02
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0	0	0	1	1	1	0	0	1	1	0	0	0	1	1	0	0	0	1	1	1	1	0	0	0	1	1	1	21	42	51.22
Trees																																																					
Juniper																																																						
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	41	82	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter		1																																																		
Rock																																																			1	2	
Bare Ground			1									1	1						1	1									1	1																					0	0	
																																																			8	16	
Total Physical Features	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	9	18	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					
Atriplex cuneata present																																																					

Horse Canyon Cover Sheet

Date:6/19/03 | Area:16/17 | Transect:5 | UTM:0553865/4367034 | Heading:307

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens												1		1				1							1		1		1																					8	16	20.00
Atriplex confertifolia													1																																					1	2	2.50
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																			1								1		1																					5	10	12.50
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus								1	1	1															1																									4	8	10.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	18	36	45.00
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																		1																	1	2	2.50
Agropyron spicatum		1																																									1				1		1	4	8	10.00
Agropyron cristatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum	1										1				1						1	1		1	1						1	1		1	1				1											12	24	30.00
Elymus salinus			1			1	1																1																											4	8	10.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Bromus japonicus																																	1																	1	2	2.50
Total Grass Cover	1	1	1	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	1	0	0	0	0	1	0	0	0	1	0	1	22	44	55.00
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	1	1	1	40	80	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter					1																																								1				2	4	
Rock																																																		0	0	
Bare Ground				1												1	1																																1	1	1			1	1			8	16	
Total Physical Features	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	0	0	10	20	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Unknown forb 2 - 4 nutlets - burr; small 5 leafed purple flower, six weeks fescue, yellow clover, ceratoides lanata, sitanion hysterix, little white daisy, globe mallow, Atriplex cuneata present

Horse Canyon Cover Sheet

Date:6/19/03	Area:16/17						Transect:6								UTM:0553736/4366987																		Heading:24																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens							1					1	1		1				1																																5	10	12.20
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata		1	1		1	1			1								1	1																						1	1							1	1		11	22	26.83
Chrysothamnus nauseosus										1															1	1																									3	6	7.32
Chrysothamnus viscidiflorus																						1																													1	2	2.44
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus	1																																																		1	2	2.44
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	0	1	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	21	42	51.22
Forbs & Succulents																																																					
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
																							1																												1	2	2.44
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.44
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																		1	1	2	2.44
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																1				1	1			1			1	1		1			1	1	1								1	1	1	1	1				15	30	36.59
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
																															1	1				1															3	6	7.32
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	1	19	38	46.34
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1	41	82	100.00
Cryptobiotic																																																					
																																																			0	0	
Physical Features																																																					
Litter				1																																																	
Rock											1																																								1	2	
Bare Ground								1						1																																					1	2	
																													1								1	1	1			1									7	14	
Total Physical Features	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	9	18	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					
Ephedra viridus, galleta, p/j, tumble mustard, winterfat, globe mallow, Japanese brome, oryzopsis hymenoides present																																																					

Horse Canyon Cover Sheet

Date:6/19/03 | Area:16/17 | Transect:7 | UTM:0853687/4366988 | Heading:86

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																			1								1			1									1												5	10	12.82
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata					1	1	1	1	1	1	1						1	1							1	1		1	1		1						1								1		1				17	34	43.59
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																	1																		1	2	2.56
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	23	46	58.97
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																		1	1	2	2.56
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum	1	1		1								1			1	1					1	1			1									1	1					1	1				1				1		15	30	38.46
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigenteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	0	0	0	1	1	16	32	41.03
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	39	78	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																1				1	2	
Rock																																															1				1	2	
Bare Ground			1										1	1									1	1							1				1								1	1					9	18	
Total Physical Features	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	11	22	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Cover Sheet

Date: 6/19/03 | Area: 15/17 | Transect: 8 | UTM: 0663762/4367061 | Heading: 42

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens										1			1	1						1	1	1	1	1						1						1														10	20	25.00
Atriplex confertifolia					1																										1																		2	4	5.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1			1																										1						1					1	1		1				1		8	16	20.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus											1				1				1	1					1																												6	12	15.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrube Cover	1	0	0	1	0	1	0	0	0	1	1	0	1.	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	1	1	1	0	0	0	1	0	26	52	65.00
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum					1																												1	1	1				1	1						1				7	14	17.50
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum								1				1														1				1																						4	8	10.00
Elymus salinus																																																				0	0	0.00
Elymus cinereus									1																																											1	2	2.50
Elymus gigenteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides		1																											1																						2	4	5.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	14	28	35.00
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	0	40	80	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																											1												1												1	3	8	
Rock																	1																																1				2	4	
Bare Ground			1				1									1												1																				1				5	10	
Total Physical Features	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	1	0	10	20	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Cover Sheet

Date:6/19/03 | Area:16/17 | Transect:9 | UTM:0563787/4367026 | Heading:131

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1			1	1	1											1	1					1			1	1								1	1	1				1	1			1			16	32	35.56
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																							1						1	1					1													1	5	10	11.11
Chrysothamnus nauseosus																						1																												1	2	2.22
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata								1																																										1	2	2.22
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																	1																																	2	4	4.44
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	0	0	1	1	0	25	50	55.56
Forbs & Succulents																																																					
Machaeranthera canescens																																																					
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																										1																											0	0	0.00
Agropyron cristatum																																																			4	8	8.89
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum			1	1					1	1				1	1	1				1	1				1					1	1	1	1																0	0	0.00
Elymus salinus																																																	1	1			16	32	35.56
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
																																																		0	0	0.00
Total Grass Cover	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	1	1	0	0	0	20	40	44.44
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	45	90	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																				
Rock																																																			0	0	
Bare Ground										1	1	1																						1															0	0	
																																																	1	5	10
Total Physical Features	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Cover Sheet

Date:6/19/03 | Area:16/17 | Transect:10 | UTM:0663812/4366861 | Heading:310

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens										1	1	1																	1	1	1				1											1	1			9	18	20.93
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1								1				1				1						1																				1	1	1						8	16	18.60
Chrysothamnus nauseosus																						1																													1	2	2.33
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowenia mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	18	36	41.86
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum					1																																														0	0	0.00
Agropyron cristatum																																																			3	6	6.98
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum				1		1	1	1						1	1	1		1	1	1				1	1	1	1	1				1	1	1		1	1		1	1										0	0	0.00
Elymus salinus																																																			22	44	51.16
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	1	1	1	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	25	50	58.14
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	43	86	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock																																																			0	0	
Bare Ground		1	1																		1															1								1							2	4	
																																																	1	1	5	10	
Total Physical Features	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	7	14	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Medicago sativa, tumble mustard present

Horse Canyon Cover Sheet

Date:6/19/93	Area:16/17						Transect:11								UTM:0553996/4367133																		Heading:237																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens			1	1				1	1																																		1		1						6	12	18.18
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata										1	1										1																														3	6	9.09
Chrysothamnus nauseosus																											1																	1							2	4	6.06
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	11	22	33.33
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa												1																																							1	2	3.03
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.03
Grasses																																																						
Agropyron smithii																																						1													1	2	3.03
Agropyron spicatum	1	1													1	1	1	1	1						1	1					1	1			1	1	1		1	1	1						1	1			19	38	57.58
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus														1																																					1	2	3.03
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	21	42	63.64
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	0	0	1	1	1	0	0	0	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	0	33	66	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																						1																													1	2	
Rock																																																			0	0	
Bare Ground					1	1	1						1							1			1	1				1	1	1			1	1								1				1			1	1	16	32	
Total Physical Features	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	1	0	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	17	34	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					
Japanese brome Cliffrose present																																																					

Horse Canyon Cover Sheet

Date:6/19/03	Area:15/17						Transect:12								UTM:0553956/4367120																		Heading:01																				
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																	1																		1	1					1	1	1	1							7	14	17.95
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata									1							1		1																			1			1											5	10	12.82
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																					
Total Shrubs Cover	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	12	24	30.77
Forbs & Succulents																																																					
Machaeranthera canescens																																																					
Medicago sativa																									1	1																									2	4	5.13
Melilotus officinalis																								1																											1	2	2.56
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7.69
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum				1	1	1	1	1		1	1								1	1	1						1	1	1	1	1	1																			16	32	41.03
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum															1																		1					1													3	6	7.69
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																														1	1	1	1		4	8	10.26
Bromus inermis																							1																												1	2	2.56
Total Grass Cover	0	0	0	1	1	1	1	1	0	1	1	0	0	0	1	0	0	0	1	1	1	0	1	0	0	0	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	24	48	61.54
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	0	39	78	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter			1									1		1																																					3	6	
Rock																																																			0	0	
Bare Ground	1	1											1										1											1					1					1						1	8	16	
Total Physical Features	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	11	22	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0	1	1	1	1	1	50	100	
Comments:																																																					
Machaeranthera canescens, Elymus cinereus present, signs of cattle - last year																																																					

Horse Canyon Cover Sheet

Date:6/18/03 | Area:18/17 | Transect:13 | UTM:0583987/4367094 | Heading:94

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescans											1	1																																								2	4	5.26
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1																													1	1	1														5	10	13.16
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrube Cover	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	7	14	18.42
Forbs & Succulents																																																						
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																				1	2	2.63
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	2.63
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum	1	1	1		1	1			1	1			1	1					1	1	1				1	1		1			1	1		1	1			1	1				1	1	1	1			1		26	52	68.42
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus								1																		1																									2	4	5.26
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																												1	1																							2	4	5.26
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	0	1	1	0	1	1	1	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	1	0	0	0	1	1	1	1	0	0	1	0	30	60	78.95
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1	0	38	76	100.00
Cryptobiotic																																																				0		
Physical Features																																																					
Litter																																																					
Rock																																																			0	0	
Bare Ground							1								1	1	1				1	1	1										1							1	1							1		1	12	24	
Total Physical Features	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	12	24	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					
Six weeks Fescue																																																					

Horse Canyon Cover Sheet

Date:6/19/03 | Area:15/17 | Transect:14 | UTM:0583822/4367069 | Heading:246

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens							1	1																		1										1																4	8	12.50
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																1																			1									1	1			1	1			8	12	18.75
Chrysothamnus nauseosus																	1																																			1	2	3.13
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Cerstoides lanata																							1																													1	2	3.13
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus							1								1																																				2	4	6.25
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	14	28	43.75
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Medicago L.																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum					1					1	1	1	1					1	1						1			1	1	1	1	1					1	1							1	1					17	34	53.13
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																		1																	1	2	3.13
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0	1	1	1	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	18	36	56.25
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	0	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	32	64	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter							1																																													1	2	
Rock																																																				0	0	
Bare Ground	1	1	1	1											1						1	1	1			1							1	1							1	1	1	1						1	1	17	34	
Total Physical Features	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	18	36	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Horse Canyon Cover Sheet

Date:6/19/03 | Area:16/17 | Transect:16 | UTM:0553976/4367111 | Heading:287

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens							1	1																					1														1									4	8	10.00
Atriplex cuneata																																																				0	0	0.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata		1				1			1									1	1				1											1											1	1	1					10	20	25.00
Chrysothamnus nauseosus																																																				0	0	0.00
Chrysothamnus viscidiflorus																																																				0	0	0.00
Cowania mexicana																																																				0	0	0.00
Ceratoides lanata																																																				0	0	0.00
Ephedra viridis																																																				0	0	0.00
Sarcobatus vermiculatus	1																																																			1	2	2.50
Gutierrezia sarothrae																																																				0	0	0.00
Total Shrubs Cover	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	15	30	37.50
Forbs & Succulents																																																						
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa																				1																																	1	2	2.50
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.50
Grasses																																																						
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum			1							1	1	1	1								1	1					1	1	1		1	1	1	1				1	1	1	1	1				1	1	1		22	44	55.00
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																								1		1																											2	4	5.00
Elymus Salinus																																																				0	0	0.00
Elymus cinereus																																																				0	0	0.00
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Stanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	0	0	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	0	1	0	1	1	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	0	24	48	60.00
Trees																																																						
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	40	80	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																						
Litter														1												1																												2	4	
Rock																																																					0	0	
Bare Ground				1	1										1	1	1																			1	1														1	6	16	
Total Physical Features	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	20	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Snake weed, Medicago sativa, Penstemon palmeri, Indian Rice grass on site

Area 16 Cover Data

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:1 | UTM:0554212/4366866 | Heading:65

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1																																1														2	4	6.25
Atriplex confertifolia											1	1																																						1	3	6	9.38
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																									1		1	1							3	6	9.38
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	0	1	8	16	25.00
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum					1		1	1						1		1		1	1				1	1	1	1			1	1		1		1			1	1		1						1			0	0	0.00
Agropyron cristatum																																																			20	40	62.50
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum			1						1																																										0	0	0.00
Elymus salinus																				1																											1					3	6	9.38
Elymus cinereus																																																			1	2	3.13
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	0	1	0	1	1	1	0	0	0	0	1	0	1	0	1	1	1	0	0	1	1	1	1	0	0	1	1	0	1	0	1	0	1	0	0	1	1	0	1	0	0	0	1	0	1	0	0	24	48	75.00
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	1	1	1	0	1	1	1	0	1	1	0	1	0	1	0	1	1	1	0	0	1	1	1	1	0	0	1	1	0	1	0	1	0	1	0	1	1	1	1	1	1	1	0	1	0	1	0	1	32	64	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock													1																																						0	0	
Bare Ground	1	1				1				1					1		1				1	1					1	1			1		1		1		1													1	2	
																																																		17	34	
Total Physical Features	1	1	0	0	0	1	0	0	0	1	0	0	1	0	1	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	18	36	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:2 | UTM:0664218/4368943 | Heading:209

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens								1																1	1	1										1		1	1	1				1							9	18	33.33
Atriplex confertifolia																																															1		1	2	4	7.41
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	1	0	0	0	1	0	1	11	22	40.74
Forbs & Succulents																																																					
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum	1								1			1		1				1					1							1																						0	0	0.00
Agropyron cristatum																																																		7	14	25.93
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																				1		1						1	1		1	1	1			1														0	0	0.00
Elymus salinus																																																		9	18	33.33
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitenion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1	0	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	18	32	59.26
Trees																																																					
Juniper																																																					
Pinon																																																		0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0	1	0	1	0	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	1	0	0	1	1	0	1	27	54	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter				1		1			1		1										1																															5	10	
Rock					1																																														1	2	
Bare Ground		1	1		1							1		1		1	1		1								1							1	1								1	1			1	1			17	34	
Physical Features	0	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1	1	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	1	1	0	1	1	0	23	46	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	2	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:3 | UTM:0564220/4387012 | Heading:183

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1			1	1			1	1	1		1			1					1																																9	18	21.43
Atriplex confertifolia																																																			0	0	0.00
Atriplex cuneata																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata		1																						1	1																		1									4	8	9.52
Chrysothamnus nauseosus																																																		1	1	2	2.38
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia serothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	0	1	1	0	0	1	1	1	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	14	28	33.33
Forbs & Succulents																																																						
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																							1	1			1								1		1					1	1				1	1			0	0	0.00
Penstemon palmeri																																																			10	20	23.81
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	1	1	0	0	1	1	0	10	20	23.81
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																												1	1	1		1		1													1						6	12	14.29
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum			1				1						1			1	1	1	1			1								1						1		1													0	0	0.00
Elymus salinus																																																			12	24	28.57
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0	1	0	0	0	0	0	1	1	1	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	18	36	42.86
Trees																																																					
Juniper																																																					
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	0	1	1	1	1	0	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter											1																																										
Rock																																																				1	2	
Bare Ground					1								1								1										1						1		1		1									0	0	
																																																			7	14	
Physical Features	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	8	16	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:4 | UTM:0554208/4386943 | Heading:96

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1										1			1									1						1							1														6	12	17.65
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata						1	1			1								1				1					1																									6	12	17.65
Chrysothamnus nauseosus																																																			1	2	2.94
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	0	0	0	1	1	0	0	1	0	1	0	0	1	0	1	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	13	26	38.24
Forbs & Succulents																																																						
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa	1			1	1															1		1						1																								6	12	17.65
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	17.65
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																							1						1																								0	0	0.00
Agropyron cristatum																																		1	1	1														5	10	14.71
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum			1					1		1		1							1																																	0	0	0.00
Elymus salinus																																						1	1		1	1		1							10	20	29.41
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	1	1	0	1	1	0	1	0	0	0	0	0	15	30	44.12
Trees																																																					
Juniper																																																						
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	1	1	1	0	1	1	1	1	1	0	1	0	1	1	1	0	0	0	1	1	1	0	1	1	1	0	1	0	1	0	0	0	34	68	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter															1										1																														
Rock																																		1																		2	4	
Bare Ground							1							1					1								1																							1				2	4	
																												1							1							1			1		1	1		1	12	24	
Physical Features	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	1	1	0	0	0	1	0	0	0	1	0	0	1	0	1	1	1	1	0	16	32	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:6 | UTM:0654199/4366987 | Heading:104

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens					1		1														1	1															1				1	1									7	14	17.95
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																		1														1																			2	4	5.13
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Coryphantha vivipara																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																					
Total Shrubs Cover	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9	18	23.08
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa								1									1		1								1				1			1	1								1		1				10	20	25.64
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	10	20	25.64
Grasses																																																				
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum		1							1	1	1											1			1	1		1	1	1					1						1		1		1			1	1	16	32	41.03
Agropyron cristatum																							1																													1	2	2.56
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum				1										1																																					3	6	7.69
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	1	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	1	1	0	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	1	0	1	0	0	1	1	20	40	51.28
Trees																																																				
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	1	1	1	0	1	1	1	1	1	0	0	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	39	78	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																				0	0	
Rock																																																			1	2	
Bare Ground	1	1				1						1	1		1	1								1											1													1			10	20	
Physical Features	1	1	0	0	0	1	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	11	22	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:6 | UTM:0554280/4366894 | Heading:13

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1											1																																							2	4	8.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata							1	1													1					1																										5	10	20.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Coweria mexicana																																																			0	0	0.00
Cerstoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	7	14	28.00
Forbs & Succulents																																																						
Globe Mallow																																																				0	0	0.00
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa																1							1					1		1	1					1															6	12	24.00
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6	12	24.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum				1						1	1													1			1						1																		1	10	20	40.00
Agropyron cristatum	1																																																			1	2	4.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum			1																																																1	2	4.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	12	24	48.00
Trees																																																					
Juniper																																																						
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	1	1	0	1	1	0	1	0	0	1	0	0	0	0	1	0	1	1	0	1	1	1	1	1	1	0	0	1	0	0	1	0	1	0	1	0	0	0	0	0	0	1	0	1	25	50	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter					1																																																	
Rock																																1																					1	2	
Bare Ground						1			1			1		1	1		1	1	1	1		1			1								1			1	1		1		1			1	1	1	1	1	1		1	2	4	
																																																			22	44	
Physical Features	0	0	0	0	1	1	0	0	1	0	0	1	0	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	1	1	0	1	1	0	1	0	1	0	1	1	1	1	1	1	0	1	0	25	50	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:7 | UTM:0554296/4366990 | Heading:26

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1																																												1	2	3.13
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata								1																							1																				2	4	6.25
Chrysothamnus nauseosus							1																				1																								1	2	3.13
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Coryphantha vivipara																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																				
Total Shrubs Cover	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12.50
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa									1						1			1																	1								1								5	10	15.63
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																							1		1														1												3	6	9.38
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	8	16	25.00
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum	1	1		1	1		1			1	1		1								1	1					1		1		1		1	1			1						1		1			1	1	20	40	62.50
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus glaucus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Stanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	1	0	1	1	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	1	1	20	40	62.50
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	1	1	1	1	1	1	0	1	0	1	0	0	1	0	0	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1	1	0	0	1	0	0	0	1	1	0	1	0	0	1	1	32	64	100.00
Cryptobiotic																																																		1		1	2	
Physical Features																																																				
Litter																																																			0	0	
Rock														1				1								1					1									1										5	10	
Bare Ground			1										1				1			1	1								1							1				1		1	1	1			1		1		12	24	
Physical Features	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	1	1	0	1	1	1	0	0	1	0	1	0	0	0	17	34	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/16/03 | Area:16 | Transect:8 | UTM:0654317/4366963 | Heading:186

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																				1	1									1															1	1	1		1			7	14	25.93
Atriplex confertifolia																																																			0	0	0.00
Atriplex cuneata																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata			1				1				1																															1									4	8	14.81
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	1	0	0	11	22	40.74
Forbs & Succulents																																																						
Globe Mallow																																																				0	0	0.00
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa				1															1							1																										7	14	25.93
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Total Forb Cover	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	1	0		7	14	25.93
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum								1			1					1	1					1	1			1						1																				0	0	0.00
Agropyron cristatum																																																			1	9	18	33.33
Agropyron trachycaulum																																																				0	0	0.00
Bromus tectorum																																																				0	0	0.00
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																				0	0	0.00
Elymus gigenteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Stanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	18	33.33
Trees																																																					
Juniper																																																						
Pinon																																																				0	0	0.00
																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	1	0	1	0	1	0	1	0	1	1	0	0	0	1	1	0	1	1	1	1	1	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	1	0	1	1	1	27	54	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter					1														1																																			
Rock													1																																								2	4	
Bare Ground	1	1		1				1		1					1	1									1	1			1	1		1	1		1	1	1	1	1		1							1				1	2	
																																																				20	40	
Physical Features	1	1	0	1	0	1	0	1	0	1	0	0	1	1	1	0	0	1	0	0	0	0	0	1	1	0	0	1	1	0	1	1	0	1	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	23	46	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/18/93 | Area:16 | Transect:9 | UTM:0884270/4368887 | Heading:241

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus	1																																																	1	2	3.13
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Cerratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.13
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum		1		1	1	1	1										1				1		1	1		1	1	1			1	1	1			1	1					1	1				1	1	1	1	23	46	71.88
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous													1	1	1	1			1	1																			1	1											8	16	25.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	0	0	1	1	1	0	1	1	0	0	1	1	0	1	1	0	0	0	1	1	1	31	62	96.88
Trees																																																				
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	0	0	1	1	1	0	1	1	0	0	1	1	0	1	1	0	0	0	1	1	1	32	64	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter												1																																								1	2	
Rock																																																			0	0	
Bare Ground			1					1	1	1	1								1				1			1			1	1				1			1	1			1			1	1	1				17	34	
Physical Features	0	0	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	1	0	0	1	1	0	0	1	0	0	1	1	1	0	0	0	18	36	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:10 | UTM:0554343/4366838 | Heading:284

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																															1												1	1						1	4	8	11.11
Atriplex confertifolia							1																				1											1												3	6	8.33
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																	1				1																			1												3	6	8.33
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Coryloides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	1	0	10	20	27.78
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa			1																													1											1	1						4	8	11.11
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	4	8	11.11
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum	1				1	1		1	1		1		1	1				1						1	1	1			1			1		1	1	1	1			1					1	1			1	0	0	0
Agropyron cristatum																																																			22	44	61.11
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	1	1	0	1	1	0	1	0	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	1	0	0	1	0	1	1	1	1	0	0	0	1	0	0	0	0	1	1	0	0	1	22	44	61.11
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	1	0	1	1	1	1	1	0	1	0	1	1	0	0	1	1	0	0	1	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	36	72	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock																											1																									1	2	
Bare Ground		1		1						1		1			1	1			1	1		1		1						1									1												1	2	
																																																		12	24	
Physical Features	0	1	0	1	0	0	0	0	0	1	0	1	0	0	1	1	0	0	1	1	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0				
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	28	
																																																		50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:11 | UTM:0564240/4366933 | Heading:221

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																						1													1	2	3.33
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																							1												1	2	3.33
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Coreiodes tenuis																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	4	6.67
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum	1			1					1	1	1		1						1	1	1			1	1	1	1			1		1	1	1	1	1	1					1	1	1		1		1	1	26	52	86.67
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																												1																								0	0	0.00
Elymus salinus																																																			2	4	6.67
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	1	0	0	0	0	1	1	1	0	1	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	0	1	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	1	1	28	56	93.33
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	1	0	0	0	0	1	1	1	0	1	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	30	60	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock																							1																														1	2	
Bare Ground		1	1		1	1	1	1				1		1	1	1	1	1				1							1		1																				0	0	
																																																			19	38	
Physical Features	0	1	1	0	1	1	1	1	0	0	0	1	0	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0					
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	40	
																																																			50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:12 | UTM:0584274/4368986 | Heading:261

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	
Atriplex confertifolia																		1												1																						2	4	7.41
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus	1	1																			1			1																											4	8	14.81
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	22.22
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																1																														1					2	4	7.41
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	4	7.41
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum								1										1	1	1					1	1						1	1	1		1	1		1												0	0	0.00
Agropyron cristatum																																																			16	32	59.26
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum															1							1																													0	0	0.00
Elymus salinus																																																			3	6	11.11
Elymus cinereus																																																			0	0	0.00
Elymus gigenteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stenion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0	1	0	0	1	1	0	0	0	0	1	1	1	0	0	1	1	0	1	0	0	1	0	0	0	0	1	1	1	1	19	38	70.37
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	1	1	1	1	0	0	1	1	0	1	0	0	1	0	0	1	0	1	1	1	1	27	54	100.00
Cryptobiotic																																																					
																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock																																																			0	0	
Bare Ground			1	1	1	1	1		1	1	1	1	1	1									1				1	1	1				1	1			1		1	1		1			1					1	2	
																																																			22	44	
Physical Features	0	0	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	1	0	1	1	0	1	1	0	1	0	0	0	0	23	46	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:13 | UTM:0554286/4366844 | Heading:99

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																				1														1	2	2.22
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																									1																											1	2	2.22
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4.44
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																										1	1																									2	4	4.44
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4.44
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1	1	1	1	1	1	1	1			1	1	1	1	1	1		1	1	1			1					1	1		1	1	1	1	1		1	1	1			1		1	1	1		1	1		34	68	75.56
Agropyron cristatum																																																			0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																								1																			1		1				1			4	8	8.89
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous									1																																										1	2	2.22
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																						1																														1	2	2.22
Sitanion hystrix																		1																																		1	2	2.22
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	0	41	82	91.11
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	45	90	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																				0	0	
Rock																																																			0	0	
Bare Ground										1												1								1														1						1	5	10	
Physical Features	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	5	10	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Cover Sheet

Date:6/18/83 | Area:16 | Transect:14 | UTM:0654276/4386988 | Heading:286

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1	1																																																3	6	9.38
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus			1								1							1										1							1	1						1									6	12	18.75
Chrysothamnus viscidiflorus																											1																									1	2	3.13
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
																																																			0	0	0.00
Total Shrubs Cover	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	10	20	31.25
Forbs & Succulents																																																							
Machaeranthera canescens																																																							
Medicago sativa										1																																											0	0	0.00
Melilotus officinalis																																																				1	2	3.13
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.13
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum				1		1	1	1	1			1		1				1			1	1				1	1																										0	0	0.00
Agropyron cristatum																																																				12	24	37.50
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum															1							1																														0	0	0.00
Elymus salinus																													1	1							1	1	1					1	1							9	18	28.13
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
																																																			0	0	0.00
Total Grass Cover	0	0	0	1	0	1	1	1	1	0	0	1	0	1	1	0	1	0	0	1	1	1	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	21	42	65.63
Trees																																																					
Juniper																																																						
Pinon																																																						
																																																			0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	0	0	1	1	0	1	1	1	1	0	0	0	1	1	0	1	1	1	0	1	0	1	1	0	0	0	0	0	32	64	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																																						
Rock																																																						
Bare Ground				1								1				1			1				1	1			1				1	1	1			1				1		1			1	1	1	1	1	0	0	
																																																			0	0	
Physical Features	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	1	1	1	0	0	1	0	0	0	1	0	1	0	0	1	1	1	1	1	18	36	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	36	
																																																			50	100	

Horse Canyon Cover Sheet

Date:6/18/03 | Area:16 | Transect:15 | UTM:0554252/4368968 | Heading:82

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens									1																					1																					3	6	8.11
Atriplex confertifolia																																														1					1	2	2.70
Atriplex cuneata																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata					1																		1	1								1	1					1														6	12	16.22
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Coreloides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	10	20	27.03
Forbs & Succulents																																																						
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa														1						1		1																	1									1				7	14	18.92
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	1	0	0	0	7	14	18.92
Grasses																																																						
Agropyron Smithii																																																				0	0	0.00
Agropyron spicatum	1		1	1								1				1	1		1						1		1	1			1				1	1							1	1							15	30	40.54
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum						1	1			1																																				1			1					5	10	13.51
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																				0	0	0.00
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	1	0	1	1	0	1	1	0	0	1	0	1	0	0	0	1	1	0	1	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	1	1	0	0	0	1	1	1	0	1	0	0	0	0	0	20	40	54.05
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	1	1	1	1	1	0	1	1	0	1	0	1	0	1	1	0	1	1	0	1	1	1	1	0	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	37	74	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																																				0	0	
Rock																		1																																			1	2	
Bare Ground		1						1			1		1		1						1					1				1				1	1																1		12	24	
Physical Features	0	1	0	0	0	0	0	1	0	0	1	0	1	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	13	26	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Other species: Melotus o, snake weed

Evidence of livestock in area, plant growth good compared to reference area, appears to have more precipetation, deer droppings and tracks in area

Appendix 2

Woody Plant Density Data

Horse Canyon Woody Plant Density Comparisons

Site	Average Plants per Acre	St. Deviation
Reference Area	659.21	332.10
Area 3	1957.30	634.98
Area 6	3891.36	705.21
Area 7	5180.74	2540.36
Area 11/13/14	1771.44	636.52
Area 15/17	2626.22	752.95
Area 16	2883.67	964.13

Horse Canyon Revegetation Shrub Density Sheet

Date:	6/30/2003																	
Area:	Reference																	
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre	
UTM:	563486	563563	563569	563560	563629	563639	563630	563624	563646	563589	563554	563550	563507	563535	563549			
	4368126	4368131	4368114	4368086	4368098	4368116	4368110	4368174	4368242	4368222	4368198	4368152	4368104	4368068	4368091			
Heading:	42	340	147	156	269	302	138	32	29	199	35	122	73	152	203			
Shrubs																		
Atriplex canescens	1.00								1.00							2.00	5.81	
Atriplex confertifolia																0.00	0.00	
Artemisia tridentata tridentata																0.00	0.00	
Chrysothamnus nauseosus																0.00	0.00	
Chrysothamnus viscidiflorus														3.00		3.00	8.71	
Cowania mexicana																0.00	0.00	
Ceratoides lanata									1.00							1.00	2.90	
Ephedra viridis				1.00		1.00									1.00	3.00	8.71	
Sarcobatus vermiculatus																0.00	0.00	
Gutierrezia sarothrae		12.00		20.00	16.00	17.00	3.00	8.00	10.00	7.00	2.00	1.00	13.00	5.00	11.00	126.00	363.00	
Total Shrubs	1.00	12.00	0.00	21.00	16.00	18.00	3.00	8.00	12.00	7.00	2.00	1.00	13.00	8.00	12.00	134.00	388.14	
																	0.00	
Trees																	0.00	
Juniper	10.00	1.00	7.00	3.00	8.00	6.00	8.00	1.00		2.00	11.00	1.00	3.00	13.00	11.00	85.00	246.64	
Pinyon				2.00	2.00	2.00	1.00						1.00			8.00	23.23	
Total Trees	10.00	1.00	7.00	5.00	10.00	8.00	9.00	1.00	0.00	2.00	11.00	1.00	4.00	13.00	11.00	93.00	270.07	
Total Woody Plants	11.00	13.00	7.00	26.00	26.00	26.00	12.00	9.00	12.00	9.00	13.00	2.00	17.00	21.00	23.00	227.00	658.21	
Plants/acre	479.16	566.28	304.92	1132.66	1132.66	1132.66	522.72	392.04	522.72	392.04	566.28	87.12	740.52	914.76	1001.88			
Average Plants/acre	658.21																	
Standard Deviation	332.10																	
90% Confidence Interval	141.04																	
Comments:																		

Horse Canyon Revegetation Shrub Density Sheet

Date:	7/3/2003																
Area:	3																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	555182	555211	555176	555187	555209	555293	555186	555296	555275	555280	555466	555496	555526	555519	555532		
	4367756	4367768	4367724	4367786	4367763	4367807	4367796	4367812	4367773	4367829	4368019	4368021	4368071	4368032	4368058		
Heading:	111	2	186	161	212	288	98	29	296	272	102	84	228	296	269		
Shrubs																	
Atriplex canescens	31.00	7.00	16.00	10.00	5.00	10.00	21.00	24.00	11.00	9.00	13.00	21.00	15.00	20.00	16.00	228.00	662.11
Atriplex confertifolia																	0.00
Atriplex corrugata																	0.00
Atriplex cuneata																	0.00
Artemisia nova																	0.00
Artemisia tridentata tridentata	40.00	7.00	9.00	4.00	8.00	7.00	32.00	36.00	2.00	14.00	17.00	15.00	8.00	11.00	28.00	233.00	676.63
Chrysothamnus nauseosus	2.00	2.00	6.00				1.00	2.00		2.00	3.00	10.00	2.00	2.00	6.00	37.00	107.45
Chrysothamnus viscidiflorus	6.00	16.00	14.00	16.00	16.00	31.00	2.00	4.00	23.00	19.00	10.00		3.00		8.00	166.00	482.06
Cowania mexicana									1.00				2.00		3.00	6.00	17.42
Cercidoides lanata																	0.00
Ephedra viridis																	0.00
Sarcobatus vermiculatus				1.00										1.00		2.00	5.81
Gutierrezia sarothrae								1.00		1.00						2.00	5.81
																	0.00
Total Shrubs	79.00	32.00	45.00	31.00	29.00	48.00	56.00	66.00	37.00	45.00	43.00	46.00	28.00	34.00	57.00	674.00	1957.30
																	0.00
Trees																	0.00
Juniper																0.00	0.00
Pinyon																0.00	0.00
																	0.00
Total Trees																	0.00
Total Woody Plants	79.00	32.00	45.00	31.00	29.00	48.00	56.00	66.00	37.00	45.00	43.00	46.00	28.00	34.00	57.00	674.00	1957.30
Plants/acre	3441.24	1393.92	1873.08	1350.36	1263.24	2090.88	2439.36	2874.06	1611.72	1960.20	1873.08	2003.76	1219.68	1481.04	2482.92		
Average Plants	1957.30																
Standard Deviation	634.88																
90% Confidence Interval	269.66																
Comments:																	
Treatment Areas Average	2708.84																
Standard Deviation	1462.72																
90% Confidence Interval	838.71																

Horse Canyon Revegetation Shrub Density Sheet

Date:	7/4/2003																	
Area:	6																	
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre	
UTM:	555621	555577	555552	555560	555549	555373	555529	555508	555458	555508	555487	555498	555482	555447	555403			
	4368211	4368185	4368167	4368170	4368190	4368143	4368148	4368153	4368137	4368138	4368132	4368174	4368189	4368149	4368142			
Heading:	244	104	208	300	55	100	221	270	58	360	258	195	248	277	87			
Shrubs																		
Atriplex canescens		35.00	21.00	28.00	33.00	28.00	37.00	19.00	15.00	25.00	31.00	29.00	55.00	28.00	40.00	423.00	1226.39	
Atriplex confertifolia																	0.00	
Atriplex corrugata																	0.00	
Atriplex cuneata																	0.00	
Artemisia nova		3.00	6.00	7.00			2.00	2.00	5.00	2.00		1.00		1.00		29.00	84.22	
Artemisia tridentata tridentata	19.00	46.00	31.00	37.00	21.00	53.00	32.00	60.00	55.00	66.00	28.00	36.00	5.00	46.00	37.00	570.00	1655.28	
Chrysothamnus nauseosus	6.00	2.00	2.00	4.00		1.00	2.00	4.00	12.00	1.00	3.00			3.00	1.00	41.00	119.08	
Chrysothamnus viscidiflorus	55.00			2.00	4.00			22.00	18.00	9.00	30.00	40.00	1.00	2.00	4.00	185.00	537.24	
Cowania mexicana																	0.00	
Ceratoides lanata			43.00	1.00	4.00		4.00	2.00	1.00	3.00		3.00	3.00			64.00	185.86	
Ephedra viridis																	0.00	
Sarcobatus vermiculatus										2.00						2.00	5.81	
Gutierrezia sarothrae	18.00				1.00				3.00		2.00	2.00				26.00	75.50	
																	0.00	
Total Shrubs	98.00	86.00	103.00	80.00	63.00	80.00	77.00	109.00	107.00	108.00	94.00	113.00	84.00	80.00	82.00	1340.00	3891.36	
																	0.00	
Trees																	0.00	
Juniper																0.00	0.00	
Pinyon																0.00	0.00	
																	0.00	
Total Trees																0.00	0.00	
Total Vegetation	98.00	86.00	103.00	80.00	63.00	80.00	77.00	109.00	107.00	108.00	94.00	113.00	84.00	80.00	82.00	1340.00	3891.36	
Plants/acre	4139.20	3702.80	4466.88	3464.80	2744.28	3464.80	3354.12	4748.04	4660.92	4704.48	4094.64	4922.28	2767.84	3484.80	3571.92			
Average Plants/acre	3891.36																	
Standard Deviation	766.21																	
90% Confidence Interval	298.50																	
Comments:																		

Horse Canyon Revegetation Shrub Density Sheet

Date:	7/4/2003																
Area:	7																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	555363	555398	555376	555370	555406	555469	555432	555404	555432	555370	555421	555420	555424	555441	555408		
	4388089	4388080	4388087	4388103	4388072	4388024	4388081	4388062	4388078	4388109	4388075	4388104	4388112	4388088	4388108		
Heading:	297	342	228	109	231	262	147	240	269	228	53	94	233	270	109		
Shrubs																	
Atriplex canescens	1.00	11.00	9.00	25.00	11.00	15.00	32.00	24.00	39.00	16.00	32.00	16.00	10.00	12.00	28.00	281.00	816.02
Atriplex confertifolia																0.00	0.00
Atriplex corrugata																0.00	0.00
Atriplex cuneata																0.00	0.00
Artemisia nova	8.00	8.00	12.00		3.00	1.00		3.00	1.00	17.00	7.00	7.00	11.00			78.00	226.51
Artemisia tridentata tridentata	202.00	113.00	228.00	72.00	105.00	88.00	35.00	38.00	60.00	72.00	50.00	96.00	97.00	7.00	49.00	1290.00	3746.16
Chrysothamnus nauseosus	7.00	1.00	4.00		1.00	1.00						1.00		1.00		16.00	46.46
Chrysothamnus viscidiflorus	8.00	2.00	6.00	1.00	4.00	13.00	1.00			4.00		8.00	9.00	19.00	2.00	75.00	217.80
Cowania mexicana							1.00			1.00		1.00				3.00	8.71
Ceratoides lanata									2.00						2.00	4.00	11.62
Ephedra viridis																0.00	0.00
Sarcobatus vermiculatus																0.00	0.00
Gutierrezia sarothrae	2.00	16.00	2.00	6.00				4.00					1.00	4.00		37.00	107.45
																	0.00
Total Shrubs	228.00	153.00	261.00	104.00	124.00	88.00	69.00	69.00	102.00	110.00	89.00	127.00	128.00	43.00	81.00	1784.00	5180.74
																	0.00
Trees																	0.00
Juniper																	0.00
Pinyon																	0.00
																	0.00
Total Trees																0.00	0.00
Total Vegetation	228.00	153.00	261.00	104.00	124.00	88.00	69.00	69.00	102.00	110.00	89.00	127.00	128.00	43.00	81.00	1784.00	5180.74
Plants/acre	9631.00	6984.66	11389.16	4530.24	5401.44	4161.76	3005.64	3005.64	4443.12	4791.60	3878.64	5532.12	5575.68	1873.08	3528.36		
Average Plants/acre	5180.74																
Standard Deviation	2540.36																
90% Confidence Interval	1672.89																
Comments:																	

Horse Canyon Revegetation Shrub Density Sheet

Date:	7/4/2003																
Area:	11, 13 & 14																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	554882	555823	554855	554582	554559	554756	554749	554767	554811	554821	554843	554870	554884	554930	554973		
	4367270	4367308	4367358	4367286	4367086	4367289	4367342	4367347	4367347	4367382	4367439	4367451	4367481	4367518	4367576		
Heading:	250	289	163	215	32	27	101	45	341	65	139	8	319	22	189		
Shrubs																	
Atriplex canescens	28.00	4.00	16.00	28.00	28.00	22.00	22.00	33.00	28.00	30.00	33.00	16.00	25.00	39.00	21.00	376.00	1097.71
Atriplex confertifolia																	0.00
Atriplex corrugata				2.00		1.00	16.00	2.00	2.00							23.00	68.79
Atriplex cuneata																	0.00
Artemisia nova																	0.00
Artemisia tridentata tridentata	23.00	1.00	1.00	1.00	17.00	13.00		8.00	19.00	9.00	28.00	1.00	1.00	12.00	14.00	144.00	418.18
Chrysothamnus nauseosus	1.00					1.00			1.00		3.00	10.00	4.00	1.00	2.00	23.00	68.79
Chrysothamnus viscidiflorus											3.00	4.00	4.00		8.00	19.00	55.18
Cowania mexicana									1.00							1.00	2.90
Ceratoides lanata			1.00	1.00					1.00	5.00		1.00		4.00		13.00	37.75
Ephedra viridis																	0.00
Sarcobatus vermiculatus		1.00	2.00													3.00	8.71
Gutierrezia sarothrae							1.00		4.00				1.00			6.00	17.42
																	0.00
Total Shrubs Cover	52.00	6.00	22.00	32.00	45.00	37.00	39.00	41.00	57.00	44.00	65.00	34.00	35.00	56.00	45.00	616.00	1771.44
																	0.00
Trees																	0.00
Juniper																	0.00
Pinyon																0.00	0.00
																0.00	0.00
Total Tree Cover																	0.00
Total Vegetation Cover	52.00	6.00	22.00	32.00	45.00	37.00	39.00	41.00	57.00	44.00	65.00	34.00	35.00	56.00	45.00	616.00	0.00
Plants/acre	2286.12	261.36	958.32	1393.92	1960.20	1611.72	1698.84	1785.96	2482.92	1916.64	2831.40	1481.04	1524.60	2439.36	1960.20	616.00	1771.44
Average Plants/acre	1771.44																
Standard Deviation	636.52																
90% Confidence Interval	276.33																
Comments:																	

Horse Canyon Revegetation Shrub Density Sheet

Date:	7/3/2003																
Area:	15 & 17																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants /acre
UTM:	553967	553969	553965	553942	553939	553737	553756	553729	553806	553781	553853	553823	553852	553768	553824		
	4367112	4367111	4367119	4367129	4367135	4367034	4367034	4367005	4366995	4366998	4366983	4367016	4366966	4367025	4367004		
Heading:	7	88	282	137	161	3	304	286	275	200	308	82	27	360	174		
Shrubs																	
Atriplex canescens	18.00	16.00	17.00	11.00	20.00	17.00	33.00	13.00	32.00	24.00	35.00	34.00	48.00	10.00	21.00	349.00	1013.50
Atriplex confertifolia	1.00				1.00	4.00	4.00			1.00						11.00	31.94
Atriplex corrugata				1.00	1.00	1.00		1.00	1.00	3.00	6.00				1.00	15.00	43.56
Atriplex cuneata																0.00	0.00
Artemisia nova							1.00			3.00						4.00	11.62
Artemisia tridentata tridentata	27.00	33.00	49.00	24.00	20.00	15.00	43.00	32.00	27.00	34.00	6.00	14.00	45.00	24.00	16.00	411.00	1193.54
Chrysothamnus nauseosus	5.00	2.00	2.00	3.00	3.00			4.00	1.00			1.00		1.00		22.00	63.88
Chrysothamnus viscidiflorus	1.00		1.00		2.00											4.00	11.62
Cowania mexicana																0.00	0.00
Ceratoides lanata		1.00		4.00		1.00	11.00		3.00	1.00		4.00	3.00		3.00	31.00	90.02
Ephedra viridis																0.00	0.00
Sarcobatus vermiculatus	1.00		4.00		1.00	16.00	2.00		8.00	5.00	1.00			10.00	4.00	50.00	145.20
Gutierrezia sarothrae	3.00				1.00	1.00	2.00									7.00	20.33
																	0.00
Total Shrubs	56.00	52.00	73.00	43.00	49.00	55.00	96.00	58.00	76.00	71.00	48.00	53.00	96.00	45.00	47.00	904.00	2625.22
																	0.00
Trees																	0.00
Juniper																0.00	0.00
Pinyon																0.00	0.00
																	0.00
Total Trees																0.00	0.00
Total Vegetation	56.00	52.00	73.00	43.00	49.00	55.00	96.00	58.00	76.00	71.00	48.00	53.00	96.00	45.00	47.00	904.00	2625.22
Plants/acre	2438.36	2265.12	3179.88	1873.08	2134.44	2395.80	4181.76	2178.00	3049.20	3092.76	2090.88	2308.68	4181.76	1960.20	2047.32		
Average Plants/acre	2625.22																
Standard Deviation	752.95																
90% Confidence Interval	319.78																
Comments:																	

Horse Canyon Revegetation Shrub Density Sheet

Date:	7/2/2003																	
Area:	16																	
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre	
UTM:	554278	554234	554311	554246	554277	554228	554222	554226	554224	554210	554246	554216	554390	554192	554290			
	4366874	4366962	4366883	4366900	4366899	4366864	4366839	4366868	4367015	4366863	4366880	4366857	4366861	4367004	4366856			
Heading:	349	91	341	99	167	136	77	156	219	282	266	361	107	253	146			
Shrubs																		
Atriplex canescens	10.00	36.00	6.00	24.00	26.00	24.00	42.00	26.00	32.00	18.00	2.00	33.00	12.00	18.00	22.00	330.00	966.32	
Atriplex confertifolia	9.00		6.00	7.00	2.00	1.00				3.00	7.00	4.00	6.00	1.00		46.00	133.56	
Atriplex corrugata			3.00							10.00			1.00			14.00	40.66	
Atriplex cuneata																	0.00	
Artemisia nova																	0.00	
Artemisia tridentata tridentata	2.00	16.00	11.00	1.00	62.00	69.00	47.00	68.00	46.00	9.00	19.00	11.00	6.00	56.00	56.00	484.00	1406.54	
Chrysothamnus nauseosus	10.00		8.00	4.00					1.00	21.00	26.00	11.00	17.00	1.00	1.00	99.00	287.50	
Chrysothamnus viscidiflorus	2.00		1.00	1.00							1.00		1.00			6.00	17.42	
Cowania mexicana													1.00			1.00	2.90	
Cercidoides lanata					1.00					9.00				1.00		11.00	31.94	
Ephedra viridis																	0.00	
Sarcobatus vermiculatus																	0.00	
Gutierrezia sarothrae	1.00												1.00			2.00	5.81	
																	0.00	
Total Shrubs	34.00	54.00	34.00	37.00	91.00	94.00	89.00	94.00	82.00	68.00	54.00	59.00	47.00	77.00	79.00	993.00	2883.67	
																	0.00	
Trees																	0.00	
Juniper																0.00	0.00	
Pinyon																0.00	0.00	
																	0.00	
Total Trees																	0.00	
Total Vegetation	34.00	54.00	34.00	37.00	91.00	94.00	89.00	94.00	82.00	68.00	54.00	59.00	47.00	77.00	79.00	993.00	2883.67	
Plants/acre	1481.04	2362.24	1481.04	1611.72	3983.96	4094.64	3878.84	4094.64	3571.92	2962.08	2362.24	2570.84	2047.32	3354.12	3441.24			
Average Plants/acre	2883.67																	
Standard Deviation	884.13																	
80% Confidence Interval	499.47																	
Comments:																		

Appendix 3

Diversity and Similarity Data

Horse Canyon Similarity Comparisons - Reference Area & Area 3

Reference Area		
Species	Frequency (per 30 transects)	% Cover (per 1500 points)
Juniper	26	17.0
Salina wild rye	24	7.0
Pinyon	13	4.0
Cheat grass	5	2.0
Globe mallow	3	1.0
Snake weed	9	1.0
Galleta	8	1.0
Six weeks fescue	4	0.3
Ephedra	3	0.2
Purple	2	0.1
Cliffrose	1	0.1
Hedgehog cactus	1	0.1

Similarity Comparison

Reference Area: 12 species (A)

Area 3: 16 species (B)

Common species: 3 (C)

Jaccard's Community Coefficient:

S = C /(A + B - C)

S = 3 /(12 + 16 - 3)

S = 12.0

12 Total species; 2 species >5% cover

Area 3		
Species	Frequency (per 15 transects)	% Cover (per 750 points)
Juniper	0	0.0
Salina wild rye	2	0.3
Pinyon	0	0.0
Cheat grass	8	4.1
Globe mallow	0	0.0
Snake weed	0	0.0
Galleta	0	0.0
Six weeks fescue	1	0.1
Ephedra	0	0.0
Purple	0	0.0
Cliffrose	0	0.0
Hedgehog cactus	0	0.0
Bluebunch wheatgrass	14	29.2
Fourwing	15	13.3
Sagebrush	15	13.3
Basin wild rye	13	7.1
Douglas rabbitbrush	10	5.1
Alfalfa	9	3.5
Yellow sweet clover	6	1.6
Crested wheatgrass	3	1.5
Squirreltail	5	1.1
Indian rice grass	6	0.9
Palmer penstemon	4	0.8
Japanese brome	1	0.3
Big rabbitbrush	6	1.2

16 total species; 5 species >5%

Horse Canyon Similarity Comparisons - Reference Area & Area 6

Reference Area		
Species	Frequency (per 30 transects)	% Cover (per 1500 points)
Juniper	26	17.0
Salina wild rye	24	7.0
Pinyon	13	4.0
Cheat grass	5	2.0
Globe mallow	3	1.0
Snake weed	9	1.0
Galleta	8	1.0
Six weeks fescue	4	0.3
Ephedra	3	0.2
Purple	2	0.1
Cliffrose	1	0.1
Hedgehog cactus	1	0.1

Similarity Comparison

Reference Area: 12 species (A)

Area 6: 21 species (B)

Common species: 2 (C)

Jaccard's Community Coefficient:

S = C /(A + B - C)

S = 2 /(12 + 21 -2)

S = 6.50

Area 6		
Species	Frequency (per 15 transects)	% Cover (per 750 points)
Juniper	0	0.0
Salina wild rye	1	0.3
Pinyon	0	0.0
Cheat grass	15	27.1
Globe mallow	0	0.0
Snake weed	0	0.0
Galleta	0	0.0
Six weeks fescue	0	0.0
Ephedra	0	0.0
Purple	0	0.0
Cliffrose	0	0.0
Hedgehog cactus	0	0.0
Bluebunch wheatgrass	15	22.9
Fourwing	14	12.4
Sagebrush	13	9.9
Douglas rabbitbrush	9	5.5
Winterfat	8	1.6
Basin wild rye	3	0.8
Alfalfa	1	0.1
Yellow sweet clover	1	0.1
Crested wheatgrass	1	0.1
Squirreltail	1	0.3
Indian rice grass	2	0.7
Palmer penstemon	1	0.4
Japanese brome	1	0.1
Smooth brome	1	0.1
Big rabbitbrush	3	0.5
Western wheat grass	1	0.1
Tumble mustard	1	0.3
Black sagebrush	3	1.9

	Giant wild rye	1	0.3
12 Total species; 2 species >5% cover	21 Total species; 5 species >5% cover		

Horse Canyon Similarity Comparisons - Reference Area & Area 7

Reference Area		
Species	Frequency (per 30 transects)	% Cover (per 1500 points)
Juniper	26	17.0
Salina wild rye	24	7.0
Pinyon	13	4.0
Cheat grass	5	2.0
Globe mallow	3	1.0
Snake weed	9	1.0
Galleta	8	1.0
Six weeks fescue	4	0.3
Ephedra	3	0.2
Purple	2	0.1
Cliffrose	1	0.1
Hedgehog cactus	1	0.1

Similarity Comparison

Reference Area: 12 species (A)

Area 7: 17 species (B)

Common species: 5 (C)

Jaccard's Community Coefficient:

S = C /(A + B - C)

S = 5 /(12 + 17 - 5)

S = 20.80

12 Total species; 2 species >5% cover

Area 7		
Species	Frequency (per 15 transects)	% Cover (per 750 points)
Juniper	0	0.0
Salina wild rye	1	0.7
Pinyon	0	0.0
Cheat grass	15	22.0
Globe mallow	2	0.3
Snake weed	1	0.1
Galleta	0	0.0
Six weeks fescue	0	0.0
Ephedra	0	0.0
Purple	0	0.0
Cliffrose	2	0.3
Hedgehog cactus	0	0.0
Bluebunch wheatgrass	15	2.0
Fourwing	15	18.9
Sagebrush	15	24.9
Douglas rabbitbrush	12	4.4
Alfalfa	3	0.5
Needle and Thread	4	0.9
Indian rice grass	2	0.3
Palmer penstemon	1	0.1
Big rabbitbrush	1	0.1
Western wheat grass	1	0.1
Tumble mustard	4	0.5
Black sagebrush	4	1.1

17 Total species; 3 species >5% cover

Horse Canyon Similarity Comparisons - Reference Area & Area 11/13/14

Reference Area		
Species	**Frequency (per 30 transects)**	**% Cover (per 1500 points)**
Juniper	26	17.0
Salina wild rye	24	7.0
Pinyon	13	4.0
Cheat grass	5	2.0
Globe mallow	3	1.0
Snake weed	9	1.0
Galleta	8	1.0
Six weeks fescue	4	0.3
Ephedra	3	0.2
Purple	2	0.1
Cliffrose	1	0.1
Hedgehog cactus	1	0.1

Similarity Comparison

Reference Area: 12 species (A)

Area 11/13/14: 23 species (B)

Common species: 3 (C)

Jaccard's Community Coefficient:

S = C /(A + B - C)

S = 3 /(12 + 23 - 3)

S = 9.4

Area 11/13/14		
Species	**Frequency (per 15 transects)**	**% Cover (per 750 points)**
Juniper	0	0.0
Salina wild rye	2	0.4
Pinyon	0	0.0
Cheat grass	13	15.7
Globe mallow	0	0.0
Snake weed	0	0.0
Galleta	0	0.0
Six weeks fescue	0	0.0
Ephedra	0	0.0
Purple	1	0.1
Cliffrose	0	0.0
Hedgehog cactus	0	0.0
Bluebunch wheatgrass	15	20.8
Fourwing	13	14.1
Sagebrush	12	5.7
Douglas rabbitbrush	5	1.6
Winterfat	5	0.7
Alfalfa	4	0.8
Needle and Thread	1	0.4
Indian rice grass	6	1.3
Shadscale	3	1.7
Big rabbitbrush	6	2.4
Greasewood	2	1.6
Crested wheatgrass	2	0.7
Basin wild rye	3	0.7
Western wheatgrass	3	0.5
Giant rye grass	3	0.5
Squirrel tail	2	0.5
Six weeks fescue	2	0.3

	Smooth brome	1	0.1
	Japanese brome	1	0.1
	Yellow sweet clover	1	0.1
12 Total species; 2 species >5% cover	23 Total species; 4 species >5% cover		

Horse Canyon Similarity Comparisons - Reference Area & Area 15/17

Reference Area		
Species	**Frequency (per 30 transects)**	**% Cover (per 1500 points)**
Juniper	26	17.0
Salina wild rye	24	7.0
Pinyon	13	4.0
Cheat grass	5	2.0
Globe mallow	3	1.0
Snake weed	9	1.0
Galleta	8	1.0
Six weeks fescue	4	0.3
Ephedra	3	0.2
Purple	2	0.1
Cliffrose	1	0.1
Hedgehog cactus	1	0.1

Similarity Comparison

Reference Area: 12 species (A)

Area 15/17: 20 species (B)

Common species: 4 (C)

Jaccard's Community Coefficient:

S = C /(A + B - C)

S = 4 /(12 + 20 - 4)

S = 14.30

12 Total species; 2 species >5% cover

Area 15/17		
Species	**Frequency (per 15 transects)**	**% Cover (per 750 points)**
Juniper	0	0.0
Salina wild rye	1	0.5
Pinyon	0	0.0
Cheat grass	13	19.1
Globe mallow	1	0.1
Snake weed	1	0.1
Galleta	0	0.0
Six weeks fescue	0	0.0
Ephedra	0	0.0
Purple	0	0.0
Cliffrose	0	0.0
Hedgehog cactus	0	0.0
Bluebunch wheatgrass	15	18.9
Fourwing	15	14.1
Sagebrush	15	15.1
Douglas rabbitbrush	1	0.1
Winterfat	2	0.4
Alfalfa	4	0.7
Needle and Thread	2	0.9
Indian rice grass	3	0.8
Shadscale	3	0.4
Big rabbitbrush	5	1.1
Greasewood	7	2.1
Basin wild rye	4	0.7
Western wheatgrass	2	0.3
Yellow sweet clover	3	0.4
Smooth brome	1	0.1
Japanese brome	2	0.3

20 Total species; 4 species >5% cover

Horse Canyon Similarity Comparisons - Reference Area & Area 16

Reference Area		
Species	**Frequency (per 30 transects)**	**% Cover (per 1500 points)**
Juniper	26	17.0
Salina wild rye	24	7.0
Pinyon	13	4.0
Cheat grass	5	2.0
Globe mallow	3	1.0
Snake weed	9	1.0
Galleta	8	1.0
Six weeks fescue	4	0.3
Ephedra	3	0.2
Purple	2	0.1
Cliffrose	1	0.1
Hedgehog cactus	1	0.1

Similarity Comparison

Reference Area: 12 species (A)

Area 16: 14 species (B)

Common species: 1 (C)

Jaccard's Community Coefficient:

$S = C/(A + B - C)$

$S = 1/(12 + 14 - 1)$

$S = 4.00$

12 Total species; 2 species >5% cover

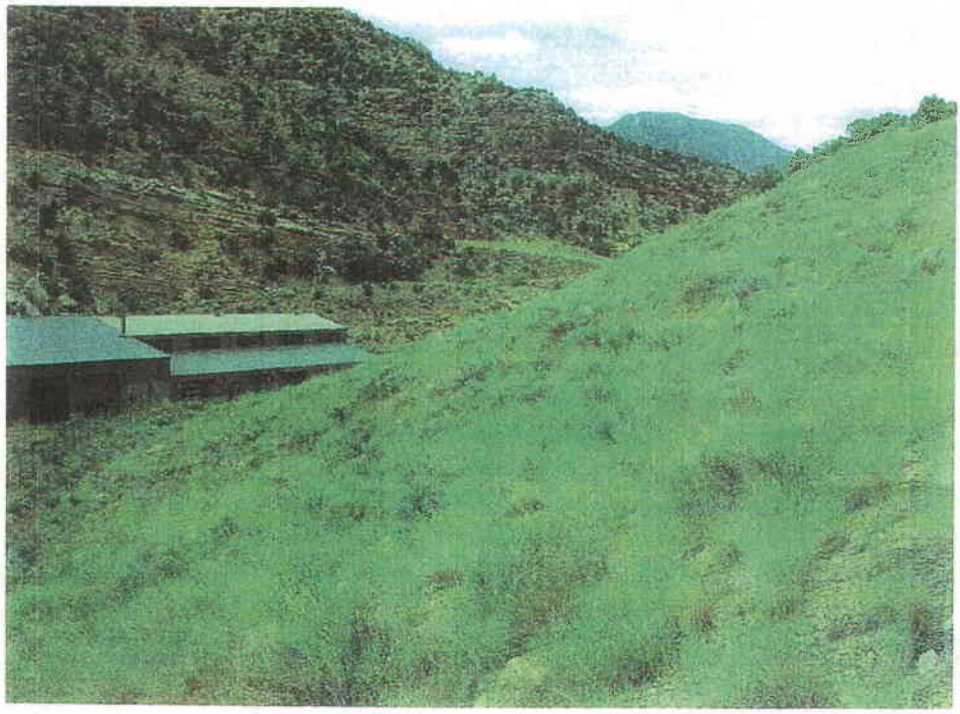
Area 16		
Species	**Frequency (per 15 transects)**	**% Cover (per 750 points)**
Juniper	0	0.0
Salina wild rye	0	0.0
Pinyon	0	0.0
Cheat grass	9	6.5
Globe mallow	0	0.0
Snake weed	0	0.0
Galleta	0	0.0
Six weeks fescue	0	0.0
Ephedra	0	0.0
Purple	0	0.0
Cliffrose	0	0.0
Hedgehog cactus	0	0.0
Bluebunch wheatgrass	13	28.5
Fourwing	9	5.6
Sagebrush	8	4.7
Douglas rabbitbrush	1	0.1
Winterfat	1	0.1
Alfalfa	10	6.7
Palmer penstemon	1	0.4
Indian rice grass	1	0.1
Shadscale	5	1.1
Big rabbitbrush	7	1.6
Crested wheatgrass	1	0.1
Giant rye grass	2	1.2
Squirrel tail	1	0.1

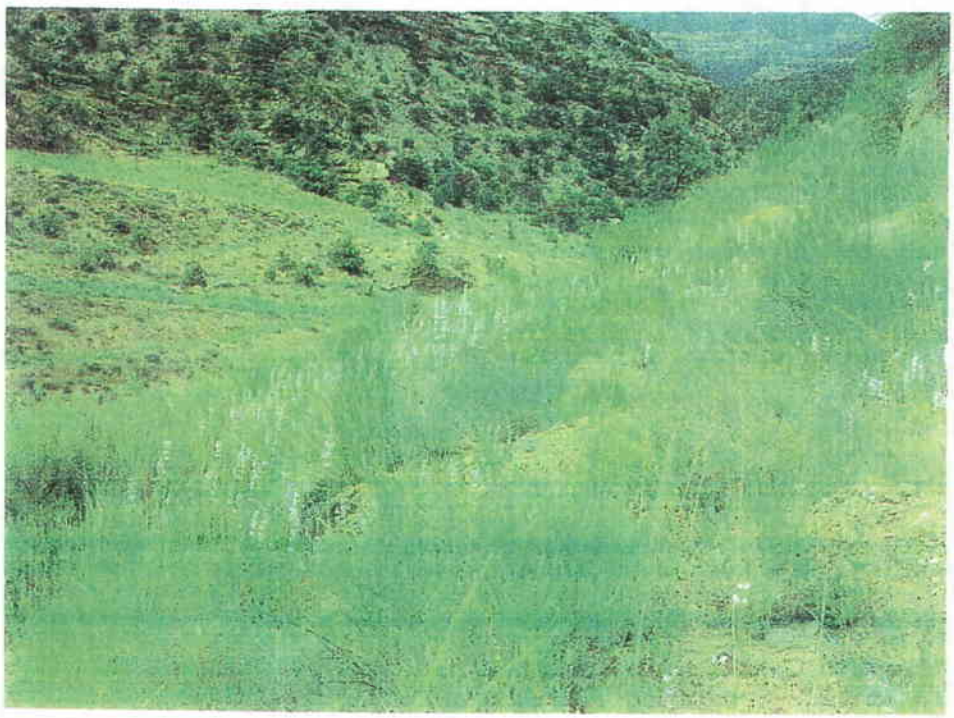
14 Total species; 4 species >5% cover

Appendix 4

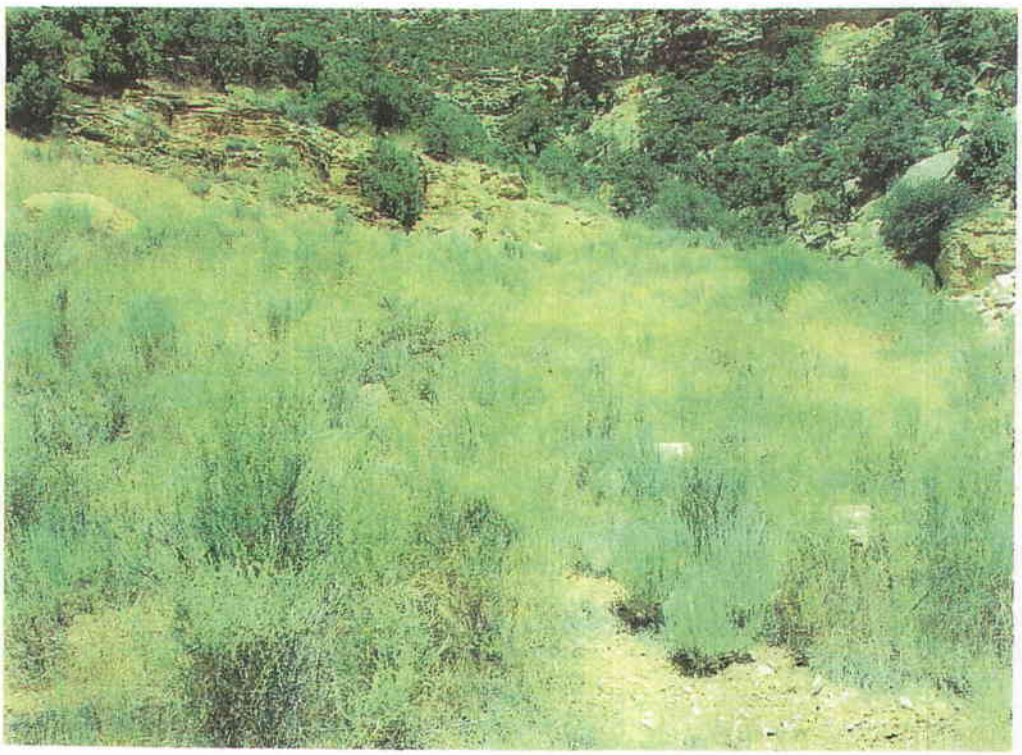
Site Photographs

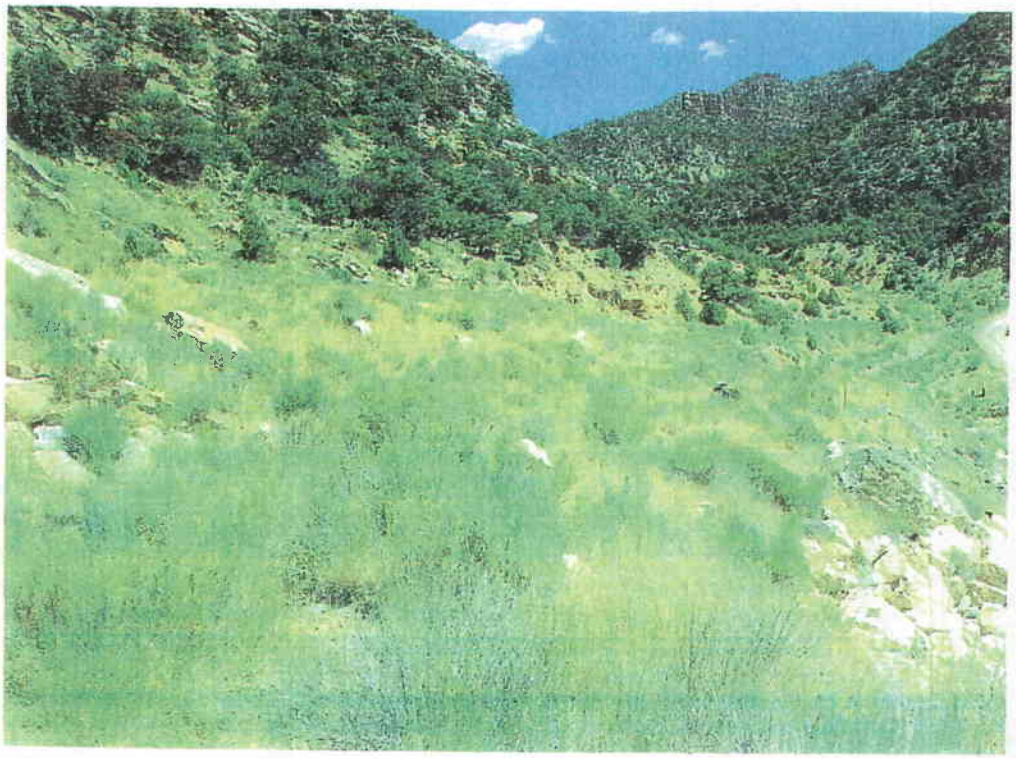
Area 3



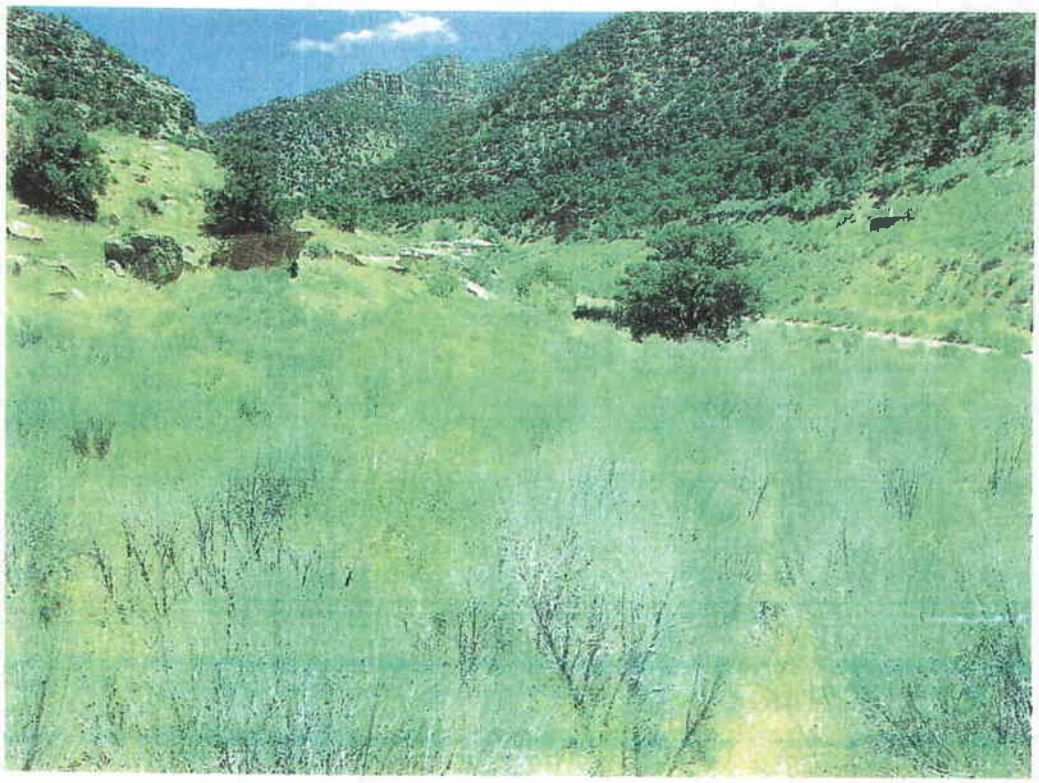


Area 6



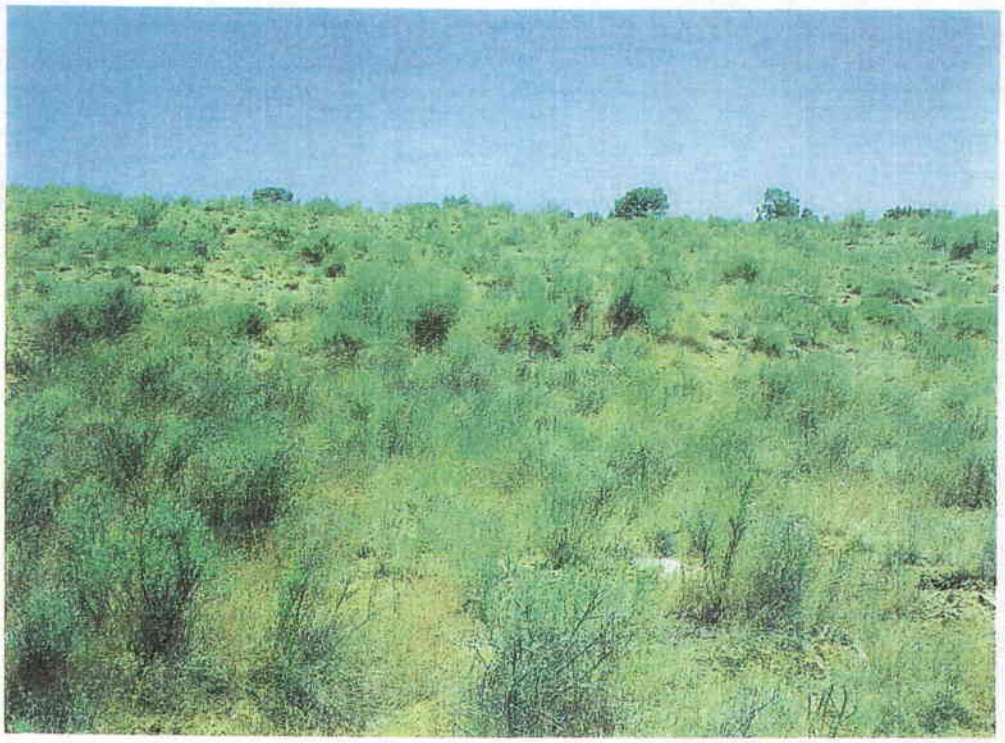


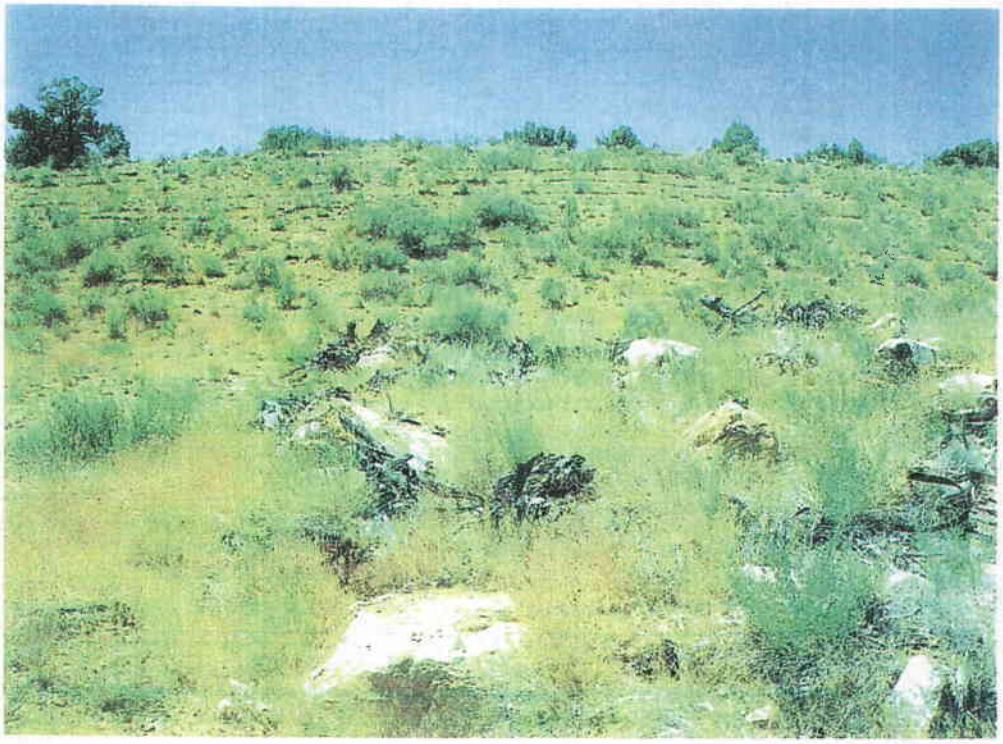
Area 7



Area 11/13/14

Area 16





Area 15/17

Appendix 5

Sloped Areas Cover Data

Slopes Cover

UtahAmerican Energy asked for a survey of percent cover for 5 sloped areas on the Horse Canyon Mine property. The 5 survey areas were 1) sloped areas around the portal area (Portal Slopes Area) , 2) sloped areas on the north-facing slope above the mine buildings (Area 3 Slopes Area), 3), sloped areas immediately adjacent to the fence on the south side of the mine buildings (Fence Slopes Area) 4) sloped areas surrounding the magazine area (Magazine Slopes Area), and 5) sloped areas adjacent and just north of the pond area (Pond Slopes Area).

A minimum of 3 transects were run at each site, and when sufficient space was available, a maximum of 5 transects were run. Fifty points were collected from each 100 foot transect. Transects were not located randomly because of the restrictively small size of the sloped areas. Data for percent cover for each area are summarized in the tables and data sheets that follow. These data include vegetation category and species for each transect at each site.

Portal Slopes Area

In the Portal slopes area, 5 transects were run. Average percent cover of all vegetation in the area was 64.80 percent. Dominant vegetative type at the site was shrubs; 41.20%, followed by grasses; 23.60 %.

Area 3 Slopes Area

In the Area 3 slopes area, 5 transects were run. Average percent cover of all vegetation in the area was 63.60 percent. Dominant vegetative type at the site was grasses; 28.80%, followed by shrubs; 27.20%).

Fence Slopes Area

In the Fence slopes area, 3 transects were run. Average percent cover of all vegetation in the area was 56.67 percent. Dominant vegetative type at the site was grasses; 24.00%, followed by forbs; 19.33%, and shrubs; 13.33%).

Magazine Slopes Area

In the Magazine slopes area, 5 transects were run. Average percent cover of all

vegetation in the area was 60.40 percent. Dominant vegetative type at the site was shrubs; 38.00%, followed by grasses; 20.80%).

Pond Slopes Area

In the Pond slopes area, 4 transects were run. Average percent cover of all vegetation in the area was 57.00 percent. Dominant vegetative type at the site was grasses; 27.50%, followed by shrubs; 26.00%).

Vegetation in these sloped areas appeared to be in good condition, with no signs of disease, insect damage or overgrazing. Though total vegetative cover in the sloped areas (range 57.00% to 64.80%) is less than the revegetated areas (range 66.27% to 89.07%), the is overlap between the two. In all cases, the sloped sites were more densely vegetated than the Horse Canyon reference area which had an average vegetative cover of 33.47%.

There are more areas of bare ground in the sloped areas than are present in the revegetation study areas, but no signs of excessive erosion were observed. In general, the sloped areas appear to have satisfactory levels of vegetation.

Slopes Cover Data

Area 3 Slopes								
	Transect Number							
Percent Cover	1.00	2.00	3.00	4.00	5.00		Average	Std. Dev.
Shrubs	46.00	50.00	48.00	22.00	40.00		41.20	11.37
Forbs	0.00	2.00	0.00	0.00	0.00		0.40	0.89
Grasses	16.00	28.00	22.00	28.00	24.00		23.60	4.98
Trees	0.00	0.00	0.00	0.00	12.00		2.40	5.37
Total Vegetation	62.00	80.00	68.00	50.00	64.00		64.80	10.83
Cryptobiotic	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Total Physical Features	38.00	20.00	32.00	50.00	36.00		35.20	10.83

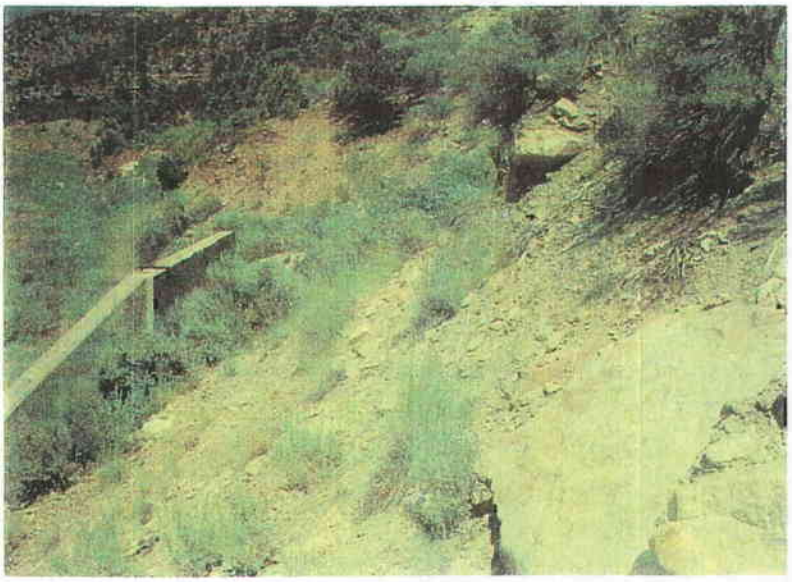
Building Slopes Data								
	Transect Number							
Percent Cover	1.00	2.00	3.00	4.00	5.00		Average	Std. Dev.
Shrubs	32.00	14.00	40.00	32.00	18.00		27.20	10.83
Forbs	2.00	12.00	10.00	14.00	0.00		7.60	6.23
Grasses	38.00	34.00	6.00	18.00	48.00		28.80	16.71
Trees	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Total Vegetation	72.00	60.00	56.00	64.00	66.00		63.60	6.07
Cryptobiotic	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Total Physical Features	28.00	40.00	44.00	36.00	34.00		36.40	6.07

Fence Slopes Data							
	Transect Number						
Percent Cover	1.00	2.00	3.00		Average	Std. Dev.	
Shrubs	8.00	22.00	10.00		13.33	7.57	
Forbs	34.00	2.00	22.00		19.33	16.17	
Grasses	12.00	36.00	24.00		24.00	12.00	
Trees	0.00	0.00	0.00		0.00	0.00	
Total Vegetation	54.00	60.00	56.00		56.67	3.06	
Cryptobiotic	0.00	0.00	0.00		0.00	0.00	
Total Physical Features	46.00	40.00	44.00		43.33	3.06	

Magazine Slopes Data									
				Transect Number					
Percent Cover			1.00	2.00	3.00	4.00	5.00	Average	Std. Dev.
Shrubs			38.00	50.00	40.00	42.00	20.00	38.00	11.05
Forbs			0.00	0.00	2.00	0.00	0.00	0.40	0.89
Grasses			26.00	22.00	38.00	4.00	12.00	20.80	13.31
Trees			0.00	0.00	0.00	0.00	6.00	1.20	2.68
Total Vegetation			66.00	72.00	80.00	46.00	38.00	60.40	17.74
Cryptobiotic			0.00	0.00	0.00	0.00	4.00	0.80	1.79
Total Physical Features			34.00	28.00	20.00	54.00	58.00	38.80	16.53

Pond Slopes Data								
			Transect Number					
Percent Cover			1.00	2.00	3.00	4.00	Average	Std. Dev.
Shrubs			26.00	26.00	32.00	20.00	26.00	4.90
Forbs			2.00	6.00	2.00	0.00	2.50	2.52
Grasses			14.00	40.00	20.00	36.00	27.50	12.48
Trees			0.00	4.00	0.00	0.00	1.00	2.00
Total Vegetation			42.00	76.00	54.00	56.00	57.00	14.09
Cryptobiotic			0.00	0.00	0.00	4.00	1.00	2.00
Total Physical Features			58.00	24.00	46.00	40.00	42.00	14.14

Portal Slopes Cover Data



Horse Canyon Revegatation Project Tally Sheet

Date:7/18/03 | **Area:3 - LS** | **Transect:1** | **UTM:0566658/4368203** | **Heading:212**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens	1																			1							1	1																						4	8.00	12.90
Atriplex confertifolia																																																		0	0.00	0.00
Artemisia nova																																																		0	0.00	0.00
Artemisia tridentata tridentata						1	1		1				1	1				1	1		1	1				1			1	1						1	1	1			1	1					1			18	36.00	58.06
Chrysothamnus nauseosus																																																		0	0.00	0.00
Chrysothamnus viscidiflorus																																																	1	2.00	3.23
Cowania mexicana																																																		0	0.00	0.00
Ceratoides lanata																																																		0	0.00	0.00
Ephedra viridis																																																		0	0.00	0.00
Sarcobatus vermiculatus																																																		0	0.00	0.00
Gutierrezia sarothrae																																																		0	0.00	0.00
Total Shrubs Cover	1	0	0	0	0	1	1	0	1	0	0	0	1	1	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	1	1	0	0	0	0	1	1	0	23	46.00	74.19
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0.00	0.00
Medicago sativa																																																		0	0.00	0.00
Melilotus officinalis																																																		0	0.00	0.00
Penstemon palmeri																																																		0	0.00	0.00
Sphaeralcia coccinea																																																		0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Grass																																																				
Agropyron smithii																																																		0	0.00	0.00
Agropyron spicatum		1	1	1																											1	1	1																6	12.00	19.35
Agropyron cristatum																																																		0	0.00	0.00
Agropyron trachycaulum																																																		0	0.00	0.00
Bromus tectorum										1																																		1						2	4.00	6.45
Elymus salinus																																																		0	0.00	0.00
Elymus cinereus																																																		0	0.00	0.00
Elymus giganteus																																																		0	0.00	0.00
Hilaria jamesii																																																		0	0.00	0.00
Oryzopsis hymenoides																																																		0	0.00	0.00
Sitanion hystrix																																																		0	0.00	0.00
Stipa comata																																																		0	0.00	0.00
Total Grass Cover	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	8	16.00	25.81
Trees																																																				
Juniper																																																				
Pinon																																																		0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	1	1	0	1	1	0	1	1	0	0	1	1	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	0	0	1	1	1	0	0	1	1	1	0	0	0	1	1	0	31	62.00	100.00
Criptobiotic																																																		0	0.00	
Physical Features																																																			
Litter								1							1	1																																				
Rock																																										1									4	8.00	
Bare Ground					1						1	1					1						1	1	1				1				1	1			1												0	0.00	
Total Physical Features	0	0	0	0	1	0	0	1	0	0	1	1	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	1	0	0	1	16	30.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	38.00	
Comments:																																																		50	100.00	

Horse Canyon Revegatation Project Tally Sheet

Date:7/18/03 | Area:3 - LS | Transect:2 | UTM:0666623/4368143 | Heading:229

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens												1	1						1							1		1																	1			1				7	14.00	17.50
Atriplex confertifolia																																																				0	0.00	0.00
Artemisia nova																																																				0	0.00	0.00
Artemisia tridentata tridentata				1				1									1	1							1			1		1				1	1						1	1				1					12	24.00	30.00
Chrysothamnus nauseosus																																																				1	2.00	2.50
Chrysothamnus viscidiflorus							1																1			1					1																						5	10.00	12.50
Cowania mexicana																																																				0	0.00	0.00
Cerstoides lanata																																																				0	0.00	0.00
Ephedra viridis																																																				0	0.00	0.00
Sarcobatus vermiculatus																																																				0	0.00	0.00
Gutierrezia sarothrae																																																				0	0.00	0.00
Total Shrubs Cover	0	0	0	1	0	0	0	1	1	0	0	1	1	0	0	0	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	0	0	1	1	0	0	0	0	1	1	1	0	1	0	1	1	1	0	0	26	50.00	62.50
Forbs & Succulents																																																							
Machaeranthera canescens																																																				0	0.00	0.00
Medicago sativa																				1																																	1	2.00	2.50
Melilotus officinalis																																																				0	0.00	0.00
Penstemon palmeri																																																				0	0.00	0.00
Sphaeralcia coccinea																																																				0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.00	2.50
Grass																																																						
Agropyron smithii																																																					0	0.00	0.00
Agropyron spicatum							1							1																	1	1			1	1		1												8	16.00	20.00
Agropyron cristatum																																																					0	0.00	0.00
Agropyron trachycaulum																																																				0	0.00	0.00
Bromus tectorum	1	1			1																			1																													0	0.00	0.00
Elymus elinus																																					1							1								6	12.00	15.00
Elymus cinereus																																																				0	0.00	0.00
Elymus gigenteous																																																				0	0.00	0.00
Hilaria jamesii																																																				0	0.00	0.00
Oryzopsis hymenoides																																																				0	0.00	0.00
Stanion hystrix																																																				0	0.00	0.00
Stipa comata																																																				0	0.00	0.00
Total Grass Cover	1	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	0	0	0	0	1	0	0	0	1	0	14	28.00	35.00
Trees																																																						
Juniper																																																						
Pinon																																																					0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	0	1	1	0	1	1	1	0	0	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	40	80.00	100.00
Criptobiotic																																																				0	0.00	
Physical Features																																																						
Litter																																																					
Rock																																																				0	0.00	
Bare Ground			1			1				1	1				1	1					1	1																														1	10	20.00	
Total Physical Features	0	0	1	0	0	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	10	20.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:7/18/03 | **Area:3 - LS** | **Transect:3** | **UTM:0565691/4368128** | **Heading:239**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegation Cover
Shrubs																																																				
Atriplex canescens	1		1	1										1	1	1	1	1		1				1	1	1					1					1															19	38.00	55.88
Atriplex confertifolia																																																			0	0.00	0.00
Artemisia nova																																																			0	0.00	0.00
Artemisia tridentata tridentata																															1		1					1					1								4	8.00	11.76
Chrysothamnus nauseosus																																																			0	0.00	0.00
Chrysothamnus viscidiflorus																																																			0	0.00	0.00
Cowania mexicana																																																			0	0.00	0.00
Ceratoides lanata																																																			0	0.00	0.00
Ephedra viridis																																																			0	0.00	0.00
Sarcobatus vermiculatus																																																			0	0.00	0.00
Gutierrezia sarothrae																																																			0	0.00	0.00
Total Shrubs Cover	1	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	1	0	23	46.00	67.65
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0.00	0.00
Medicago sativa																																																			0	0.00	0.00
Melilotus officinalis																																																			0	0.00	0.00
Penstemon palmeri																																																			0	0.00	0.00
Sphaeralcia coccinea																																																			0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Grass																																																					
Agropyron smithii																																																			0	0.00	0.00
Agropyron spicatum						1	1						1																						1	1															5	10.00	14.71
Agropyron cristatum																																																			0	0.00	0.00
Agropyron trachycaulum																																																			0	0.00	0.00
Bromus tectorum											1	1											1				1																									6	12.00	17.65
Elymus salinus																																																			0	0.00	0.00
Elymus cinereus																																																			0	0.00	0.00
Elymus giganteous																																																			0	0.00	0.00
Hilaria jamesii																																																			0	0.00	0.00
Oryzopsis hymenoides																																																			0	0.00	0.00
Sitanion hystrix																																																			0	0.00	0.00
Stipa comata																																																			0	0.00	0.00
Total Grass Cover	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	11	22.00	32.35
Trees																																																					
Juniper																																																					
Pinon																																																				0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	0	1	1	0	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	1	1	0	0	0	1	1	1	0	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	0	34	68.00	100.00
Cryptobiotic																																																					
																																																			0	0.00	
Physical Features																																																					
Litter					1																1							1	1																							5	10.00	
Rock																																																				0	0.00	
Bare Ground		1						1	1	1									1			1								1				1			1														11	22.00	
Total Physical Features	0	1	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	16	32.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date:7/18/03 | Area:3 - US | Transect:4 | UTM:0666568/4368087 | Heading:46

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetation Cover
Shrubs																																																				
Atriplex canescens						1													1								1	1																							4	8.00	16.00
Atriplex confertifolia																																																		0	0.00	0.00
Artemisia nova																																																		0	0.00	0.00
Artemisia tridentata tridentata	1						1	1																													1	1													5	10.00	20.00
Chrysothamnus nauseosus																																																		0	0.00	0.00
Chrysothamnus viscidiflorus																																																		1	1	2.00	4.00
Coweria mexicana																																																		0	0.00	0.00
Ceratoides lanata													1																																						1	2.00	4.00
Ephedra viridis																																																		0	0.00	0.00
Sarcobatus vermiculatus																																																		0	0.00	0.00
Gutierrezia sarothrae																																																		0	0.00	0.00
Total Shrubs Cover	1	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	11	22.00	44.00
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0.00	0.00
Medicago sativa																																																			0	0.00	0.00
Melilotus officinalis																																																			0	0.00	0.00
Penstemon palmeri																																																			0	0.00	0.00
Sphaeralcia coccinea																																																			0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Grass																																																					
Agropyron smithii																																																			0	0.00	0.00
Agropyron spicatum					1							1				1	1	1							1	1			1	1																						9	18.00	36.00
Agropyron trachycaulum																																																			0	0.00	0.00
Bromus tectorum																																																			0	0.00	0.00
Elymus salinus																																																			1	2.00	4.00
Elymus cinereus																																																			1	2.00	4.00
Elymus gigenteus																																																			0	0.00	0.00
Hilaria jamesii																																																			0	0.00	0.00
Oryzopsis hymenoides																																																			0	0.00	0.00
Stipa comata																																																			3	6.00	12.00
Total Grass Cover	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	1	0	0	0	14	28.00	56.00
Trees																																																					
Juniper																																																					
Pinon																																																			0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	0	0	0	1	1	1	1	0	0	0	1	1	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	1	0	1	0	0	1	1	1	0	0	1	25	50.00	100.00
Cryptobiotic																																																			0	0.00	
Physical Features																																																				
Litter									1																																											1	2.00	
Rock															1																																					1	2.00	
Bare Ground		1	1	1						1	1			1						1	1	1	1	1						1	1	1	1	1	1			1		1		1	1				1	1		23	46.00	
Total Physical Features	0	1	1	1	0	0	0	0	1	1	1	0	0	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	1	0	1	0	1	1	0	0	0	1	1	0	26	50.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:7/18/03 | **Area:3 - US** | **Transect:5** | **UTM:0565691/4368095** | **Heading:49**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetion Cover
Shrubs																																																				
Atriplex canescens																																																			0	0.00	0.00
Atriplex confertifolia																																																		0	0.00	0.00
Artemisia nova																																																		0	0.00	0.00
Artemisia tridentata tridentata																									1		1		1				1								1						1	1		1	1	9	18.00	28.13
Chrysothamnus nauseosus	1							1	1																																										3	6.00	9.38
Chrysothamnus viscidiflorus		1					1			1	1				1	1								1													1														5	10.00	15.63
Cowania mexicana																																																		0	0.00	0.00
Ceratoides lanata																																																		0	0.00	0.00
Ephedra viridis																																																		0	0.00	0.00
Sarcobatus vermiculatus																																																		0	0.00	0.00
Gutierrezia sarothrae																																																		0	0.00	0.00
Total Shrubs Cover	1	1	0	0	0	0	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	1	1	0	1	1	20	40.00	62.50
Forbs & Succulents																																																					
Machaeranthera canescens																																																			0	0.00	0.00
Medicago sativa																																																			0	0.00	0.00
Melilotus officinalis																																																			0	0.00	0.00
Penstemon palmeri																																																			0	0.00	0.00
Sphaeralcia coccinea																																																			0	0.00	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Grass																																																					
Agropyron smithii																																																				0	0.00	0.00
Agropyron spicatum						1						1					1										1			1	1																					6	12.00	18.75
Agropyron cristatum																																																				0	0.00	0.00
Agropyron trachycaulum																																																				0	0.00	0.00
Bromus tectorum			1																														1	1	1																	5	10.00	15.63
Elymus salinus																																																				0	0.00	0.00
Elymus cinereus																																																				0	0.00	0.00
Elymus gigenteous																																																				0	0.00	0.00
Hilaria jamesii																																																				0	0.00	0.00
Oryzopsis hymenoides																						1																																1	2.00	3.13
Sitanion hystrix																																																				0	0.00	0.00
Stipa comata																																																				0	0.00	0.00
Total Grass Cover	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	12	24.00	37.50
Trees																																																					
Juniper																																																					
Pinon																																																				0	0.00	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
Total Vegetation Cover	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	1	0	1	0	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	0	0	0	1	1	1	0	1	1	32	64.00	100.00
cryptobiotic																																																					
																																																				0	0.00	
Physical Features																																																					
Litter																																																					
Rock																																																				0	0.00	
Bare Ground				1	1								1	1				1	1	1	1		1		1						1						1	1	1		1	1	1				1			0	0.00	
Total Physical Features	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	1	0	0	18	36.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100.00	
Comments:																																																					

Area 3 Slopes Cover Data

Horse Canyon Revegetation Project Tally Sheet

Date: 6/05/03 | Area: Bulding Slope | Transect: 1 | 558268/4387892 | Heading: 38

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens			1														1	1					1	1			1						1		1		1	1	1	1										11	22	30.56
Atriplex confertifolia																																																			0	0	0.00
Atriplex suneata																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																									1										1																2	4	5.56
Chrysothamnus nauseosus																1												1																							2	4	5.56
Chrysothamnus viscidiflorus																																																		1	1	2	2.78
Cowania mexicana																																																			0	0	0.00
Gutierrezia linata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	0	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	16	32	44.44
Forbs & Succulents																																																						
Astragalus sp.				1																																															1	2	2.78
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.78
Grass																																																					
Agropyron smithii																																																					
Agropyron spicatum						1			1					1																																								
Agropyron cristatum																																																				4	8	11.11
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus	1																															1	1																1	2	2.78
Elymus elmeraus																																																			3	6	8.33
Elymus gigenteus		1							1		1	1		1					1											1	1																				0	0	0.00
Hilaria jamesii																																																			11	22	30.56
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	0	0	1	0	0	1	1	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	0	19	38	52.78
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	1	0	0	1	1	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	0	36	72	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock							1																																												0	0	
Bare Ground				1		1				1									1	1	1					1			1																1	1		1	1		1	13	26	
Total Physical Features	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	1	14	28	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: 6/08/03 | Area: Building Slope | Transect: 2 | UTM: 5452984347901 | Heading: 92

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1																																																		2	4	6.67
Atriplex confertifolia																																													1	1					2	4	6.67
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																				1												1	1		3	6	10.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Coryloides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	7	14	23.33
Forbs & Succulents																																																				0		
Astragalus sp. (blank) yellow																																																			0		
Globe Mallow																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																							1													1																2	4	6.67
Melilotus officinalis																									1	1	1																										3	6	10.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			1	2	3.33
																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	20.00
Grass																																																				0		
Agropyron smithii																																																				0		
Agropyron spicatum			1	1			1	1					1	1		1	1																																			0	0	0.00
Agropyron cristatum															1																																					8	16	26.67
Agropyron trachycaulum																																					1															2	4	6.67
Bromus tectorum					1				1																																										0	0	0.00
Elymus cinereus																								1							1	1							1	1												2	4	6.67
Elymus gigantecus																																																			5	10	16.67
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
																																																			0	0	0.00
Total Grass Cover	0	0	1	1	1	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	17	34	56.67
Trees																																																				0		
Juniper																																																				0		
Pinon																																																				0	0	0.00
																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	30	60	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock																																																				0	0	
Bare Ground						1				1	1	1						1	1	1	1	1						1	1	1			1	1											1	1	1	1				0	0	
																																																			20	40	
Total Physical Features	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	20	40	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	40	
Comments:																																																			60	100	

Horse Canyon Revegetation Project Tally Sheet

Date: 6/06/03 | Area: Building Slope | Transect: 3 | UTM: 555321/4387510 | Heading: 70

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens														1																										1												2	4	7.14
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1					1							1					1							1																										7	14	25.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus				1	1						1	1			1	1	1										1										1														11	22	39.29
Coweria mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrube Cover	1	0	0	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	1	0	0	1	0	20	40	71.43
Forbs & Succulents																																																						
Machaeranthera canescens																																																						
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri		1																						1	1		1																									0	0	0.00
Sphaeralcia coccinea																																					1														5	10	17.86
																																																			0	0	0.00
Total Forb Cover	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	17.86
Grass																																																						
Agropyron smithii																																																						
Agropyron spicatum																																																			0	0	0.00
Agropyron trichophorum																																	1	1																2	4	7.14
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																		1	1	3.57
Elymus gigeriscus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanton hystrix																																																			0	0	0.00
Stipe comata																																																			0	0	0.00
																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	6	10.71
Trees																																																						
Juniper																																																						
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	1	1	0	0	1	1	28	56	100.00
Cryptobiode																																																				0	0	
Physical Features																																																					
Litter			1																1																																3	6	
Rock																																																				1	2	
Bare Ground							1	1	1	1										1	1	1	1						1	1	1	1	1					1			1	1				1	1			18	36	
Total Physical Features	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	0	0	1	1	1	0	0	1	1	0	0	22	44	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Horse Canyon Revegetation Project Tally Sheet

Date: 8/08/03 | Area: Building Slope | Transect: 4 | UTM: 5555434/4567857 | Heading: 220

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1																			1																															2	4	6.25
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1													1																																1						3	6	9.38
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus							1								1										1	1	1										1						1								7	14	21.88
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae				1	1								1			1																																				4	8	12.50
Total Shrubs Cover	1	1	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	16	32	50.00
Forbs & Succulents																																																						
Machaeranthera canescens																																																						
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																									1				1	1					1	1							1	1							7	14	21.88
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	7	14	21.88
Grass																																																					
Agropyron smithii																																																					
Agropyron spicatum											1	1					1																																				0	0	0.00
Agropyron orietatum																																																			1	4	8	12.50
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum		1																																																	0	0	0.00
Elymus salinus																																																			1	2	3.13
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			3	6	9.38
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			1	2	3.13
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	1	0	8	16	25.13
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	0	1	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	1	0	1	1	0	1	1	1	1	1	1	32	64	100.00
Cryptobiotic																																																					
																																																			0	0	
Physical Features																																																					
Litter																																																					
Rock																																																			0	0	
Bare Ground			1				1	1	1									1	1	1		1	1	1							1	1	1	1				1		1			1					1	18	36	
Total Physical Features	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	1	18	36	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: 6/06/03 | Area: Building Slope | Transect: 5 | UTM: | Heading: 258

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens															1	1	1	1																							1	1	1								7	14	21.21
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata												1																																							1	2	3.03
Chrysothamnus nauseosus																																						1													1	2	3.03
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	9	18	27.27
Forbs & Succulents																																																						
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grass																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1																																																		2	4	6.06
Agropyron cristatum																																																			2	4	6.06
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum																			1	1					1	1					1	1					1						1	1							9	18	27.27
Elymus cinereus											1																																								0	0	0.00
Elymus elymoides													1								1	1	1				1	1	1	1						1	1														1	2	3.03
Hilaria jamesii																																																			10	20	30.30
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	1	1	0	1	1	1	0	0	24	48	72.73
Trees																																																					
Juniper																																																						
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	33	66	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter														1																																									
Rock																																	1	1	1					1											5	10	
Bare Ground		1	1	1	1	1	1	1	1	1														1																					1				1		12	24	
Total Physical Features	0	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	17	34	
Comments:	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Fence Slopes Cover Data

Horse Canyon Revegetation Project Tally Sheet

Date: 8/06/03 | Area: Fence Slope | Transect: 1 | UTM: 0561884/4387789 | Heading: 42

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Atriplex ouneata																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus													1														1											1												3	6	11.11
Chrysothamnus viscidiflorus																				1																														1	2	3.70
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	8	14.81
Forbs & Succulents																																																						
Machaeranthera canescens																																																						
Medicago sativa	1	1						1	1	1	1										1					1	1												1	1	1	1	1	1	1	1						0	0	0.00
Melilotus officinalis																																																			17	34	62.96
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	17	34	62.96
Grass																																																					
Agropyron smithii																																																					
Agropyron spicatum			1					1									1	1	1																																0	0	0.00
Agropyron cristatum																																																			5	10	18.52
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus gigenteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides							1																																											0	0	0.00
Sitanion hystrix																																																		1	2	3.70
Stipa comata																																																		0	0	0.00
																																																		0	0	0.00
Total Grass Cover	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	22.22
Trees																																																					
Juniper																																																					
Pinon																																																		0	0	0.00
																																																	0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	1	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	27	54	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter																																																				
Rock																																																		0	0	
Bare Ground				1	1		1							1	1	1						1	1	1	1			1	1	1	1	1	1	1	1	1	1										1	1	1	1	23	46	
Total Physical Features	0	0	0	1	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	23	46	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegetation Project Tally Sheet

Date: 8/08/03 | Area: Fence Slope | Transect: 2 | UTM: 558241/4387830 | Heading: 7

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens							1																																						1				2	4	6.67
Atriplex confertifolia																																																		0	0	0.00
Atriplex cuneata																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata															1	1	1																																	3	6	10.00
Chrysothamnus nauseosus																													1								1				1	1	1							5	10	16.67
Chrysothamnus viscidiflorus																																																		0	0	0.00
Coweria mexicana																																																	1	1	2	3.33
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	1	0	0	0	1	11	22	36.67
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																1		1	2	3.33
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	3.33
Grass																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum	1	1		1						1	1								1	1										1	1	1						1						1	1					13	26	43.33
Agropyron cristatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus												1						1																																2	4	6.67
Elymus cinereus																																																		0	0	0.00
Elymus giganteous			1						1																																									2	4	6.67
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																					1																														1	2	3.33
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	18	36	60.00
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	1	1	1	1	1	1	1	0	1	0	1	30	60	100.00
Cryptobiotic																																																				
Physical Features																																																		0		
Litter				1																			1																											2	4	
Rock					1																	1					1								1	1													5	10	
Bare Ground								1					1	1									1		1	1	1		1				1				1	1								1		1		13	26	
Total Physical Features	0	0	0	0	1	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	1	1	0	0	0	0	0	0	0	1	0	1	0	20	40	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegetation Project Tally Sheet

Date: 6/06/03 | Area: Fence Slope | Transect: 3 | UTM: 5661904/4367801 | Heading: 218

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																	1	1	2	3.57
Chrysothamnus nauseosus																									1																								1	2	4	7.14
Chrysothamnus viscidiflorus																										1																								2	4	7.14
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	5	10	17.86
Forbs & Succulents																																																					
Mechaeranthera canescens																																																			0	0	0.00
Medicago sativa						1	1	1							1	1	1	1									1								1	1	1														11	22	39.29
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcea coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	11	22	39.29
Grass																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum						1									1																		1	1					1	1						1	1		8	16	28.57
Agropyron trichycaulum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus														1																																					1	2	3.57
Elymus cinereus																																																		0	0	0.00
Elymus giganteus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																				1																															1	2	3.57
Sitanion hystrix																																	1													1					2	4	7.14
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	0	1	1	0	0	12	24	42.86
Trees																																																				
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	28	56	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground	1	1	1	1	1				1	1	1	1	1								1	1	1	1			1	1	1	1	1											1	1	1		1					22	44	
Total Physical Features	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	22	44	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Magazine Slopes Cover Data

Horse Canyon Revegetation Project Tally Sheet

Date:7/1993 | Area:Magazine | Transect:1 | UTM:[illegible] | Heading:270 | Coordinates:

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																																				
Atriplex cuneata																																																				
Artemisia nova																																																				
Artemisia tridentata tridentata	1	1	1													1								1	1	1				1	1	1																					
Chrysothamnus nauseosus															1								1																		1	1	1	1						1			
Chrysothamnus viscidiflorus																																	1																		
Cowania mexicana																																						1													
Coralolde lanata																																																			
Ephedra viridis																																																			
Sarcobatus vermiculatus																																																		
Gutierrezia sarothrae																																																		
Total Shrubs Cover	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	19	38	57.58
Forbs																																																				
Machaeranthera canescens																																																			
Medicago sativa																																																			
Melilotus officinalis																																																			
Penstemon palmeri																																																			
Sphaeralcia coccinea																																																			
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grass																																																				
Agropyron cristal																																																				
Agropyron spicatum																																																			
Agropyron cristatum																																																			
Agropyron trachycaulum																																																			
Bromus tectorum							1										1					1					1	1	1					1	1	1	1	1					1	1			1			14	28	42.42
Elymus salinus																																																			
Elymus cinereus																																																			
Elymus glaucous																																																			
Galeta Grass																																																			
Hilaria jamesii																																																			
Oryzopsis hymenoides																																																			
Stlanion hystrix																																																			
Stipa comata																																																			
Total Grass Cover	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	14	28	42.42
Trees																																																				
Juniper																																																				
Pinon																																																				
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	33	66	100.00
Cryptobiotic																																																				
Physical Features																																																				
Litter																					1																														1	2	4	
Rock																																																			0	0	
Bare Ground	1				1	1		1	1	1	1	1	1	1				1	1	1																										1	1					15	30	
Total Physical Features	1	0	0	0	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	17	34	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegetation Project Tally Sheet

Date:7/18/03 | Area:Magazine | Transect:2 | UTM:[illegible] | Heading:162 | Coordinates:

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																																		0	0	0.00
Atriplex cuneata																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata	1	1	1	1	1						1	1	1	1	1	1	1						1			1	1	1	1						1	1	1				1	1							22	44	61.11
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																		1																																	0	0	0.00
Coweria mexicana																																																1	1		3	6	8.33
Cerstoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Unknown Buckwheat																																																		0	0	0.00
Total Shrubs Cover	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	1	1	1	0	0	1	1	0	0	0	0	1	1	0	0	35	80	69.44
Forbs																																																					
Machaeranthera canescens																																																					
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grass																																																					
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																						1																													1	2	2.78
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum						1													1	1	1			1	1					1													1	1						10	20	27.78
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	11	22	30.56
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	1	1	1	1	0	0	1	1	0	0	36	72	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter							1	1	1																																										4	8	
Rock																																																			0	0	
Bare Ground										1																				1	1	1	1	1						1					1	1	10	20	
Physical Features	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	14	28	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Horse Canyon Revegetation Project Tally Sheet

Date:7/18/08 | Area:Magazine | Transect:3 | UTM:0644888/4369418 | Heading:29 | Coordinates:

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																✓																																			0	0	0.00
Atriplex cuneata																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata		1	1								1				1	1						1	1	1	1	1	1						1		1									1	1				15	30	37.50
Chrysothamnus nauseosus																																																1			1	2	2.50
Chrysothamnus viscidiflorus												1									1												1																3	6	7.50
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																							1																												1	2	2.50
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Unknown Buckwheat																																																		0	0	0.00
Total Shrubs Cover	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	20	40	50.00
Forbs																																																					
Globe Mallow																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Medicago L																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Tumble Mustard							1																																												1	2	2.50
Wintertat																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.50
Grass																																																			0	0	0.00
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum				1	1	1		1	1	1			1	1			1		1	1								1	1						1	1	1	1									1	1	19	38	47.50
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus glaucicus																																																		0	0	0.00
Galeta Grass																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Stanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	1	1	1	0	1	1	1	0	0	1	1	0	0	1	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	19	38	47.50
Trees																																																		0	0	0.00
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	1	1	40	80	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter	1																													1	1	1																1			6	10	
Rock																																																			0	0	
Bare Ground																		1																													1	1	1	1			5	10	
Total Physical Features	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	10	20	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegetation Project Tally Sheet

Date:7/16/08 | Area:Meganine | Transect:4 | UTM:4568818/4568416 | Heading:238 | Coordinates:

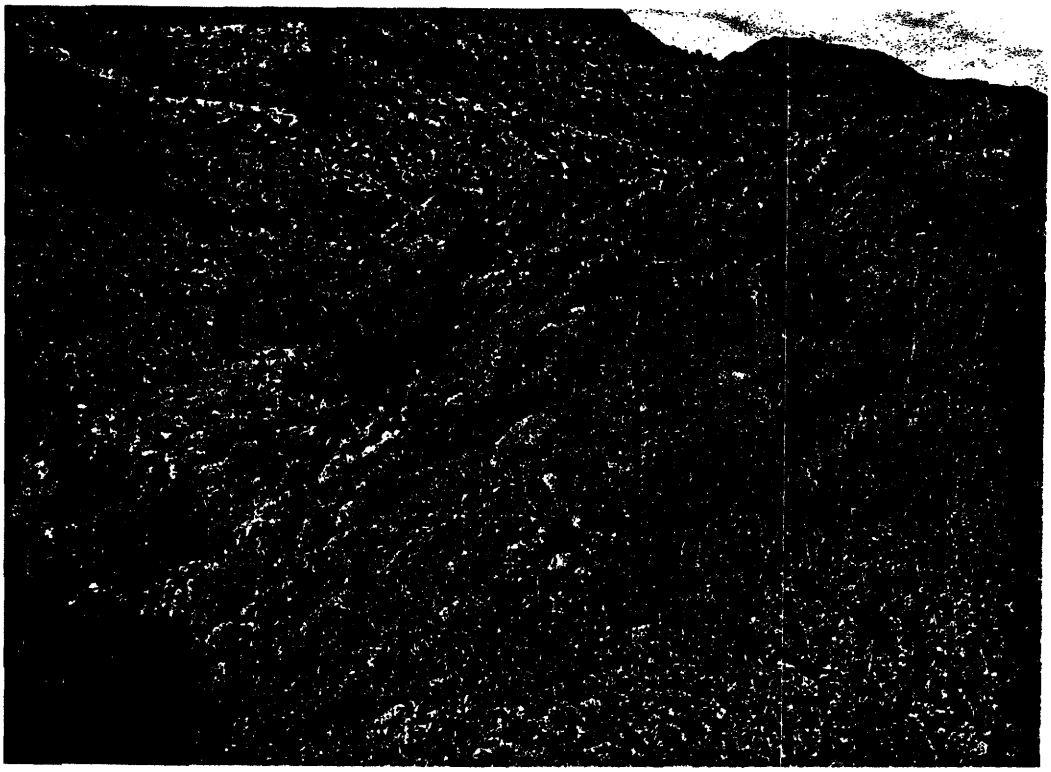
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																		0	0	0.00
Atriplex confertifolia																																																	0	0	0.00
Artemisia nova																																																	0	0	0.00
Artemisia tridentata tridentata			1	1														1	1	1	1								1							1	1	1	1	1	1	1	1		1	1					17	34	73.91
Chrysothamnus nauseosus																						1																								1						2	4	8.70
Chrysothamnus viscidiflorus		1																																												1					2	4	8.70
Cowania mexicana																																																		0	0	0.00
Coralodes lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	21	42	91.30
Forbs																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Medicago L																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Winterfat																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grass																																																					
Agropyron cristhil																																																		0	0	0.00
Agropyron spicatum																																																		0	0	0.00
Agropyron orlatatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus gigantecus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																								1								1																			2	4	8.70
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8.70
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	23	46	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																	1	2	
Litter																																																		2	4	
Rock								1	1																																									1	1	24	48	
Bare Ground	1				1	1	1			1	1	1	1	1	1	1	1							1	1	1	1	1		1		1	1	1	1																0	
Total Physical Features	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1		27	54	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegetation Project Tally Sheet

Date:7/18/08 | Area:Magazine | Transect:5 | UTM:[illegible] | Heading:215 | Coordinates:

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata				1	1						1	1																		1																			0	0	0.00
Chrysothamnus nauseosus																																					1	1	1											5	16	42.11
Chrysothamnus viscidiflorus																																																1	1	2	5.26
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae										1																																									0	0	0.00
Unknown Buckwheat																																																		1	2	5.26
																																																		0	0	0.00
Total Shrubs Cover	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	10	20	82.83
Forbs																																																					
Machaeranthera canescens																																																					
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grass																																																				
Agropyron smithii																																																				
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																						1	1																												2	4	10.53
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus gigenteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides													1							1	1			1																											4	8	21.05
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	31.58
Trees																																																					
Juniper																																																		3	6	15.79
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	3	6	15.79
Total Vegetation Cover	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	19	38	100.00
																											1									1																
Cryptobiotic																																																		2	4	
Physical Features																																																				
Litter																																																		0	0	
Rock																												1							1	1											1	1			7	14	
Bare Ground	1	1	1			1	1	1	1					1	1	1	1	1	1						1	1		1		1	1	1											1				1		1	22	44	
Total Physical Features	1	1	1	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	0	1	1	0	1	1	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	1	29	58	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Pond Slopes Cover Data



Horse Canyon Revegetation Project Tally Sheet

Date:6/6/03 | Area:Pond | Transect:1 | UTM:[illegible] | Heading:358 | Coordinates:

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens																			1																						1										2	4	9.52
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus				1			1																													1										1				4	8	19.05
Chrysothamnus viscidiflorus					1	1																			1																1	1	1							6	12	28.57
Cowania mexicana																																																		0	0	0.00
Cercidium torreyi																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Halogeton glomeratus									1																																									1	2	4.76
Total Shrubs Cover	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	1	0	0	13	26	61.90
Forbs & Succulents																																																					
Grindelia squarrosa			1																																																		
Machaeranthera canescens																																																		1	2	4.76
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Total Forb Cover	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4.76
Grass																																																				
Agropyron smithii																																																				
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum										1	1																																							0	0	0.00
Elymus cinereus																									1		1	1																							6	12	28.57
Elymus cinereus																																																		0	0	0.00
Elymus giganteus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																1																																	0	0	0.00
Stanion hystrix																																																		1	2	4.76
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	7	14	33.33
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	1	1	1	1	1	0	1	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	1	1	0	0	21	42	100.00
Cryptobiotic																																		1																1	2	
Physical Features																																																				
Litter															1																																						
Rock																																																			1	2	
Bare Ground	1	1						1				1	1	1			1	1		1	1	1	1	1					1	1	1	1	1	1			1	1		1					1	1	1			1	1	0	0	
Total Physical Features	1	1	0	0	0	0	0	1	0	0	0	1	1	1	1	0	1	1	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	1	1	0	1	0	0	0	1	1	1	0	0	1	27	54	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	28	56	
Comments:																																																		50	100	

Horse Canyon Revegetation Project Tally Sheet

Date:6/8/05 | Area:Pond | Transect:2 | UTM:5555084/4387461 | Heading:15 | Coordinates:

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																												1	1	1			1	1	6	10	13.16
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																										1									1	2	2.63
Chrysothamnus nauseosus		1					1																					1	1																						4	8	10.53
Chrysothamnus viscidiflorus																																	1	1																	2	4	5.26
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata								1																																											1	2	2.63
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																					
Total Shrubs Cover	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	13	26	34.21
Forbs & Succulents																																																					
Globe Mallow																																																					
Mesherenthera canescens	1																																																			0	0	0.00
Medicago sativa																																																				1	2	2.63
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Tumble Mustard																								1	1																												0	0	0.00
																																																			2	4	5.26
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7.89
Grass																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																				0	0	0.00
Agropyron cristatum																																																				0	0	0.00
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum							1				1	1	1	1	1	1	1	1	1	1	1	1	1									1			1	1	1	1												0	0	0.00
Elymus cinereus																																																				19	38	50.00
Elymus cinereus																																																				0	0	0.00
Elymus gigenteus																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Stipa hymenoides																																1																				1	2	2.63
Stipa comata																																																				0	0	0.00
																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20	40	52.63
Trees																																																					
Juniper			1	1																																																	
Pinon																																																				2	4	5.26
																																																			0	0	0.00
Total Tree Cover	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5.26
Total Vegetation Cover	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	38	76	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																																					
Rock																										1																												
Bare Ground					1				1	1																	1																										3	4	
																												1	1																							6	0	
Total Physical Features	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	10	20	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	12	24	
Comments:																																																				50	100	

Horse Canyon Revegetation Project Tally Sheet

Date:8/8/05 | Area:Pond | Transect:3 | UTM:0404043/4367419 | Heading:187 | Coordinates:

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens											1								1	1			1	1					1	1	1	1																			9	18	33.33
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata												1															1															1	1	1								5	10	18.52
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																		1	1	2	3.70
Cowania mexicana																																																			0	0	0.00
Coreloidea lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
																																																			1	2	3.70
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	0	16	32	59.26
Forbs & Succulents																																																						
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcea coccinea																										1																										1	2	3.70
																																																		0	0	
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.70
Grass																																																					
Agropyron smithii																																																					
Agropyron spicatum		1	1						1	1												1																														0	0	0.00
Agropyron cristatum																																																			5	10	18.52
Agropyron trachycaulum																																																			0	0	0.00
Bromus tectorum				1													1	1																																		0	0	0.00
Elymus cinereus																																																			5	10	18.52
Elymus gigenteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
																																																			0	0	0.00
Total Grass Cover	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	10	20	37.04
Trees																																																					
Juniper																																																						
Pinon																																																			0	0	0.00
																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	0	27	54	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter	1																																																				
Rock																				1					1										1	1															1	6	12
Bare Ground					1	1	1	1					1	1	1	1														1	1	1			1	1	1	1							1	1					0	0	
																																																			17	34	
Total Physical Features	1	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	1	23	46
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:8/8/03 | Area:Pond | Transect:4 | UTM:8444884/367584 | Heading:184 | Coordinates:

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																												1						1			1												3	6	10.71
Chrysothamnus viscidiflorus																																						1											1	2	3.57
Cowania mexicana																																																		0	0	0.00
Coriaceae lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae					1	1												1	1								1																							6	12	21.43
Total Shrubs Cover	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	10	20	35.71
Forbs & Succulents																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcea coccinea																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grass																																																					
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum			1	1													1																																	3	6	10.71
Agropyron cristatum																																																		0	0	0.00
Agropyron trachycaulum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus							1	1						1	1	1																	1	1															7	14	25.00
Elymus elinerus																																																		0	0	0.00
Elymus gigenteus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																				1	1																										1	1	1	1			1	1	8	16	28.57
Stanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	0	0	1	1	18	36	64.29
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	28	56	100.00
Cryptobiotic																	1												1						1																2	4	
Physical Features																																																				
Litter																																																					
Rock	1							1																	1									1											1						1	2	
Bare Ground		1								1	1	1	1						1	1	1	1								1	1	1										1	1					1		15	30	
Total Physical Features	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	20	40	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Appendix III-1-6

Horse Canyon Vegetation Survey 2004

Horse Canyon Vegetation Survey - 2004

Submitted by
Mike King, Ph.D.

July30, 2005

Abstract

A vegetation inventory was conducted on 6 revegetation sites on the Horse Canyon Mine property between June and August, 2004. Data were collected regarding percent cover, percent cover by species, and woody plant density at each site. Data were also collected from a reference site located on Bureau of Land Management property adjacent to mine property. Revegetated sites were compared to the reference area with respect to cover and woody plant density to determine similarity. All sites cover averages exceed the cover average for the reference site and should be judged to have satisfactorily exceeded minimum requirements with respect to cover. Woody plant density in all revegetated sites exceeded woody plant density in the reference area. Species diversity was also higher in all revegetated areas when compared to the reference area. Life form similarity comparisons indicated that in almost every case, the revegetated areas exceeded the 70% standard with respect to percent cover.

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Introduction

In June of 2004, fieldwork was initiated and continued through August 2004 to document vegetation condition of a reference area and 6 representative revegetated sites on the Horse Canyon Mine property. It also was conducted to fulfill the sampling requirement for year 10 of reclamation and to substantiate that the vegetation requirements were met for Phase II bond release.

The project included vegetation surveys of 6 revegetated sites and a reference area established in 1985 according to Utah Division of Oil, Gas, and Mining (DOGM) permitting requirements. Data collection included percent cover, percent cover by species, woody plant density, and species diversity for each site. Similarity indices were to be calculated between revegetated sites and the reference area to determine if the revegetation efforts have satisfactorily met prescribed revegetation standards determined as part of the Horse Canyon Mine reclamation plan.

The information below includes summary and analyses of these vegetation surveys.

Materials and Methods

Six revegetation sites were selected for analysis based on previous survey work conducted on the mine property in 1995 (Table 1). These areas were selected based on revegetation treatment, slope, aspect, and general topographic similarities. The sites correspond to reclamation treatment areas in the horse Canyon Mine reclamation plan. The reference area, located adjacent to the Horse Canyon mine property on Bureau of Land Management land, was selected several years ago as the revegetation plan was established. The Vegetation Surveys were carried out according to the Division of Oil, Gas and Mining (DOGM) vegetation sampling methods (February 1992 Revised DOGM Vegetation Information Guidelines). Data collected during the surveys were used to determine ground cover, cover by species, and woody plant density. A comparison of the reference areas and revegetated areas was made to determine similarity of the 2 areas.

Table 1. Horse Canyon Vegetation Survey Sites*	
Site Number	**Description**
3	North-facing slope
6	South-facing slope
7	Rabbitbrush treatment; South-facing slope
11,13,14	Flat topography near canyon mouth
16	Borrow pit area
15, 17	Former refuse pile and landfill area
Reference Area	Mature Pinon - Juniper Woodland

* See Appendix 3 for photographs of each site

Percent Cover

The point-intercept method was used to sample cover. A total of 15 - 100 ft sampling transects were run at each revegetation site to determine percent cover. Transects were located using coordinates selected from a random number table. Coordinates were paced off and a compass direction was selected using the random number table as well. Once transect start point and compass direction were established, investigators laid out a 100 ft tape in the appropriate direction and then walked the length of the tape to record vegetation. Investigators took samples at 2ft intervals along the length of the tape. A total of 50 points were recorded for each transect. Similar methods were used in the reference area.

Cover categories included: 1) Physical Features including a) bare ground (rock or soil material less < 12 inches in diameter), b) litter (dead plant material lying on ground surface), c) rock (rock material >12 inches in diameter), 2) Cryptobiotic Soil, 3) Vegetation including a) shrubs b) forbs and succulents (cactus species), c) grasses, and d) trees. When possible, plants were identified to species level. Points were selected by viewing the transect at 2 foot intervals with an ocular viewing device with cross hairs. When there was an overhead canopy, verticle projections were made above the 100 ft tape to include the highest level of vegetation in the sample.

Adequacy of sample size was determined as per DOGM guidelines (DOGM 1992); see Table 2. Sample adequacy for cover was met at the 90% confidence level with a 10% change in the mean as required by DOGM. Fifteen transects were run in the

reference area even though sample adequacy suggested that 16 transects be run to keep consistency with the numnber of transects run in revegetated areas.

Table 2. Minimum sample sizes		
Area	**Cover**	**Woody Plant Density**
Reference	16.60	155.33
3	1.46	33.26
6	1.62	38.67
7	1.31	63.10
11/13/14	5.38	47.51
15/17	3.35	54.32
16	3.38	80.32

Woody Plant Density

Woody plant densities were estimated using the belt transect method (DOGM 1992). A total of 15 - 100 ft X 10 ft transects were run in each area to determine woody plant density. Transects were located using coordinates selected from a random number table. Coordinates were paced off and a compass direction was selected using the random number table as well. Once transect start point and compass direction were established, investigators walked the length of the transect and recorded species of all individual shrubs rooted in each belt. Total number of plants per acre was calculated using DOGM guidelines. Minimum sample sizes for adequacy ranged from 33 to 155 (Table 2). To keep sampling consistent and avoid excessive disturbance to sites, shrub densities were estimated using the minimum of 15 transects as was done in previous vegetation surveys.

Similarity

Similarity of revegetated sites and the reference area with respect to species composition was determined using the Jaccard's Community Coefficient (DOGM

1992). The index of similarity is calculated by:

SI = C/(A + B - C) * 100

where:

A = number of species in the reference area
B = number of species in the revegetated area
C = number of species common to both sites

Species Diversity

Species diversity lists of all sites were compiled based on data collected during cover sampling. Also, similarity of sites with respect to cover was based on Jaccard's Similarity Index:

SI = Cover (%) for Life Forms/Total Vegetation Cover

where:

Life forms = Shrubs, Forbs, or Grasses.

SI values for each life form were calculated for the reference area and each revegetation site. If the SI value of the revegetation area equaled or exceeded 70% of the reference area value it was judged to be successful.

Results

The survey was conducted during the seventh year of abnormally dry weather in Utah and the western United States. Annual precipitation at the Sunnyside City Center weather station (approximately 7 miles north of Horse Canyon) and the Price Warehouses weather station (approximately 30 miles west of horse Canyon) was below long-term averages for both sites. The precipitation for the 2004 water year (Oct 1, 2003-Sept 31,2004) at Sunnyside was 12.72 inches compared to the 30 year average of 13.87 inches. Similarly annual precipitation for the Price Warehouses station for the 2004 water year was 8.31 inches or 85% of the normal (Utah Climate Center records, Utah State University, Logan, Utah). This pattern is typical of most regions in Utah due to several years of drought throughout the state. This prolonged period of reduced moisture has no doubt had an effect on plant production and

survival throughout the state and the eastern Utah area. *Signs of significant shrub death was evident in all study sites.*

Though plant growth was likely limited during the year, there were no signs of disease or insect damage and plants generally appeared to be in good health.

As with the vegetation study conducted in 2003, all areas showed some use by livestock. Cattle sign was found in all areas, though the use was not extensive. Plants showed no signs of overgrazing. It is assumed that the used was limited to the few days livestock operators in the area moved their cattle to and from summer range in the Range Creek area. Mule deer sign was also observed in all revegetated areas as well as the reference area. Chukar partridges were heard in or near areas 16, 15/17, and 11/13/14. A group of 5 Rocky Mountain bighorn ewes was seen in a site close to area 11/13/14 in July 2004.

Percent Cover

Reference Area

Cover data for the Horse Canyon reference area are included in Table 3 (data for each transect are included in Appendix 1). The average vegetation cover for the Reference area was 43.20%. The vegetative component was comprised of 24.00% trees, 15.60% grasses, 1.87% percent shrubs, and 1.73% forbs and succulents (for relative percent vegetation for each transect see Appendix 1).

Table 3. Horse Canyon Average Cover Summary*

Cover Type	Area						
	Ref	**3**	**6**	**7**	**11,13,14**	**15,17**	**16**
Shrubs	1.87 *1.00*	51.87 *33.07*	40.40 *33.60*	56.00 *49.87*	28.80 *24.80*	37.07 *34.27*	27.20 *15.73*
Forbs	1.73 *0.73*	2.93 *6.53*	0.93 *0.93*	2.67 *1.60*	2.00 *1.33*	0.13 *1.20*	3.47 *8.40*
Grasses	15.60 *10.53*	33.73 *46.53*	44.00 *54.53*	25.47 *25.87*	50.13 *42.80*	33.60 *41.87*	42.00 *42.13*
Trees	24.00 *20.57*	0 *0*	0 *0*	0 *0*	0 *0*	0 *0*	0 *0*
Total Vegetation	43.20 *32.83*	88.53 *86.13*	85.33 *89.07*	83.73 *77.33*	80.93 *72.53*	70.80 *77.33*	74.13 *66.27*

Cryptobiotic	10.13 *5.4*	0.27 *0.13*	0.27 *0.53*	0 *0*	0.27 *0.53*	0 *0*	0 *0.13*
Physical Features	49.73 *60.60*	11.20 *13.73*	14.40 *10.13*	16.27 *22.27*	18.80 *26.93*	29.20 *22.67*	25.87 *33.60*

* Italicized values are from the 2003 vegetation survey report

Area 3

The average vegetation cover for Area 3 was 88.53%. The vegetative component was comprised of 51.87% shrubs, 2.93% forbs and succulents, and 33.73% grasses, (Appendix 1; for relative percent vegetation for each transect also see Appendix 1.

Area 6

The average vegetation cover for Area 6 was 85.33%. The vegetative component was comprised of 340.40% shrubs, 0.93% forbs and succulents, and 44.00% grasses, Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

Area 7

The average vegetation cover for Area 7 was 83.73%. The vegetative component was comprised of 56.00% shrubs, 2.67% forbs and succulents, and 25.47% grasses, (Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

Area 11,13,14

The average vegetation cover for Area 11/13/14 was 80.93%. The vegetative component was comprised of 28.80% shrubs, 2.00% forbs and succulents, and 50.13% grasses, (Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

Area 15,17

The average vegetation cover for Area 15/17 was 70.80%. The vegetative component was comprised of 37.07% shrubs, 0.13% forbs and succulents, and 33.60% grasses, (Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

Area 16

The average vegetation cover for Area 16 was 74.13%. The vegetative component was comprised of 27.20% shrubs, 3.47% forbs and succulents, and 42.00% grasses,

(Appendix 1; for relative percent vegetation for each transect also see Appendix 1).

In order to meet the revegetation plan success standard, 90% of undisturbed reference area, each site should meet or exceed 38.88% cover. Since all sites cover averages exceed the minimum requirement, it should be judged that the treatments have been satisfactory with respect to percent cover as was the case for the year 9 vegetation survey.

Woody Plant Density

Woody plant density data for the Horse Canyon reference area are included in Table 4 (data for each transect are included in Appendix 2).

Table 4. Horse Canyon Woody Plant Densities (plants/acre)

Area	Average	Std. Dev.	90% Confidence Interval	Min. - Max.
Reference	1112.23	787.16	334.31	777.92 - 1446.54
3	1794.67	587.70	249.60	1545.07 - 2044.27
6	3905.88	1379.32	585.80	3320.08 - 4491.68
7	4817.74	2173.13	922.93	3894.81 - 5740.67
11/13/14	1542.02	603.54	256.32	1285.70 - 1798.34
15/17	2247.70	940.73	399.53	1848.17 - 2647.23
16	2572.94	1309.44	556.12	2016.82 - 3129.06
Revegetated Areas Average	2813.49	1283.97	545.30	2268.19 - 3358.79

Reference Area.

The Reference area was the least populated area with respect to woody plants. Including tree species, plants/acre ranged from 479.16 to 2657.16, with an average of 1112.23 (90% confidence intervals are also listed in Table 4). The most predominant woody plants in the Reference area were Snakeweed (*Gutierrezia sarothrae* - 763.75 plants/acre, 68.67%) and Utah Juniper (*Juniperus osteosperma* - 258.46 plants/acre, 23.23%).

Area 3.

Area 3 had an average plants/acre of 1794.67 (90% confidence intervals are listed in Table 4). Individual transect values ranged from 958.32 - 3223.44. The site was dominated by Sagebrush (*Artemisia tridentata* - 813.12 plants/acre, 45.30%), Four Wing Saltbush (*Atriplex canescens* - 743.42 plants/acre, 41.42%), and Big Rabbitbrush (*Chrysothamnus nauseosus* - 136.48 plants/acre, 7.60%).

Area 6.

Area 6 had an average plants/acre of 3905.88 (90% confidence intervals are listed in Table 4). Individual transect values ranged from 2003.76 - 5314.32. The site was dominated by Sagebrush (*Artemisia tridentata* - 1591.39 plants/acre, 40.74%), Four Wing Saltbush (*Atriplex canescens* - 1269.05 plants/acre, 32.49%), Winterfat (*Ceratoides lanata* - 10.56%), and Douglas Rabbitbrush (*Chrysothamnus viscidiflorus* - 264.26 plants/acre, 6.77%).

Area 7.

Area 7 had an average plants/acre of 4817.74 (90% confidence intervals are listed in Table 4). Individual transect values ranged from 3615.48 - 10846.44. The site was dominated by Sagebrush (*Artemisia tridentata* - 33232.15 plants/acre, 67.09%) and Four Wing Saltbush (*Atriplex canescens* - 1097.71 plants/acre, 22.78%).

Area 11,13,14.

Area 11/13/14 had an average plants/acre of 1542.02 (90% confidence intervals are listed in Table 4). Individual transect values ranged from 522.72 - 2831.40. The site was dominated by Sagebrush (*Artemisia tridentata* - 354.29 plants/acre, 22.98%) and Four Wing Saltbush (*Atriplex canescens* - 990.26 plants/acre, 64.22%).

Area 15,17.

Area 11/13/14 had an average plants/acre of 2247.70 (90% confidence intervals are listed in Table 4). Individual transect values ranged from 435.60 - 3659.04. The site was dominated by Sagebrush (*Artemisia tridentata* - 1042.54 plants/acre, 46.38%) and Four Wing Saltbush (*Atriplex canescens* - 772.46 plants/acre, 34.37%).

Area 16.

Area 11/13/14 had an average plants/acre of 2572.94 (90% confidence intervals are listed in Table 4). Individual transect values ranged from 784.084835.16 - 4094.64. The site was dominated by Sagebrush (*Artemisia tridentata* - 972.84 plants/acre, 37.81%), Four Wing Saltbush (*Atriplex canescens* - 891.53 plants/acre, 34.65%), Big Rabbitbrush

(*Chrysothamnus nauseosus* - 360.10 plants/acre, 14.00%), and Shadscale (*Atriplex confertifolia* - 241.03, 9.37%) .

Average of all Treatment Areas

An average was calculated combining data for all treatment areas. The average woody plant plants/acre when considering all treatment areas was 2813.49. Calculation of a 90% confidence interval indicates that we can be 90% confident that the actual mean of the population lies between 2268.19 - 3358.79 plants/acre.

With respect to woody plant density, only 2 sites did not clearly exceed the standard of 2000 plants/acre established in the revegetation plan for the Horse Canyon area. Area 6 (3905.88), Area 7 (4817.74), Area 15/17 (2247.70), and Area 16 (2572.94) all exceeded 2000 plants per acre. Areas 3 (1794.67; 90% confidence interval: 1545.07 - 2044.27) and 11/13/14 (1542.02; 90% confidence interval; 1285.70 - 1798.34) both have averages below 2000. Considering the confidence intervals, only Area 11/13/14 falls clearly below the 2000 shrubs/acre standard. However, when compared to the Reference area (1112.23), even areas 3 and 11/13/14 far exceed the undisturbed site with respect to woody plants/acre. Given these data, the woody plant density treatments should be characterized as relatively successful.

Species Diversity

Lists of species for the Reference area and each of the revegetation sites is listed in Table 5. All comparisons show more total species in each of the revegetated sites than in the Reference area.

Table 5. Species Lists for Horse Canyon Inventory Area

Species	Site						
	Ref.	**3**	**6**	**7**	**11/ 13/14**	**15/ 17**	**16**
Shrubs							
Artemisia nova		x	x	x		x	
Artemisia tridentata		x	x	x	x	x	x
Atriplex canescens		x	x	x	x	x	x
Atriplex confertifolia			x	x		x	x
Ceratoides lanata			x	x	x	x	x
Chrysothamnus nauseosus		x	x	x	x	x	x
Chrysothamnus viscidiflorus		x	x	x	x		x

Cowania mexicana		x		x	x		
Ephedra viridis							
Gutierrezia sarothrae	x	x	x	x	x	x	x
Sarcobatus vermiculatus	x		x		x	x	
Forbs & Succulents							
Echinocereus triglochidiatus							
Medicago sativa					x		x
Meliotus officinalis		x					
Penstemon palmeri		x	x	x	x		x
Euphorbia fendleri	x				x		
Sisymbrium altissimum		x	x	x			
Sphaeralcia coccinea	x			x	x		
Grindelia squarrosa		x	x		x		
Machaerantha canescens	x	x	x		x	x	x
Phlox sp.	x						
Plantago patagonica	x						
Opuntia compressa	x						
Grasses							
Agropyron cristatum		x			x		x
Agropyron smithii		x	x				
Agropyron spicatum		x	x	x	x	x	x
Bromus inermis			x				
Bromus japonicus							
Bromus tectorum	x	x	x	x	x	x	x
Elymus cinereus		x	x	x	x	x	x
Elymus gigantius		x	x		x	x	
Elymus salinus	x		x		x	x	
Hilaria jamesii			x			x	
Oryzopsis hymenoides			x	x	x	x	x

Sitanion hystrix			x	x			
Stipa comata				x			
Vulpia octaflora							
Trees							
Juniperus osteosperma	x						
Pinus edulis	x						
Total Species in each area	12	18	23	18	21	16	15

Also in each revegetation site, there were more species with greater than 5% cover than in the Reference area. The Reference area had a total of 12 species with 2 species, Utah juniper (20.54%) and Salina wild rye (13.74%), with percent cover greater than 5%. *Only 2 species, 1 tree and 1 grass, exceeded 5%.* See summary of shrubs and grasses that exceeded 5% cover in Table 6.

Table 6. Grasses and Shrubs with % Cover > 5%

Site	Shrubs > 5% cover		Grasses > 5% cover	
Reference 1 grass	none		Salina wild rye (13.74%)	
Area 3 3 shrubs 1 grass	Big sagebrush Four-wing saltbush Douglas rabbitbrush *Green rabbitbrush*	(26.26%) (25.06%) (5.06%) *(3.06%)*	Giant wild rye	(16.80%)
Area 6 2 shrubs 2 grasses	Four-wing saltbush Big sagebrush *Winterfat* *Green rabbitbrush*	(18.60%) (11.46%) *(3.34%)* *(2.66%)*	Bluebunch wheatgrass Cheatgrass	(26.66%) (12.80%)
Area 7 2 shrubs 2 grasses	Big sagebrush Four-wing saltbush	(29.46%) (21.06%)	Cheatgrass Bluebunch wheatgrass	(16.94%) (5.46%)

Area 11/13/14 2 shrubs 2 grasses	Four-wing saltbush Big sagebrush *Green rabbitbrush*	(9.87%) (4.80%) *(3.46%)*	Bluebunch wheatgrass Cheatgrass	(27.06%) (18.94%)
Area 15/17 2 shrubs 2 grasses	Big sagebrush Four-wing saltbush	(16.40%) (15.60%)	Bluebunch wheatgrass Cheatgrass	(22.40%) (9.74%)
Area 16 2 shrubs 2 grasses	Four-wing saltbush Big sagebrush *Douglas rabbitbrush* *Shadscale*	(13.74%) (7.60%) *(3.20%)* *(2.94%)*	Blue bunch wheatgrass Cheatgrass	(28.40%) (13.20%)

Area 3 had a total of 18 species with 5 species, Big sagebrush (26.26%), Fourwing saltbush (25.06%), Bluebunch wheatgrass (20.14%), Giant wild rye (16.80%), and Green rabbitbrush (5.06%) with percent cover greater than 5%. *Five species, 3 shrubs and 2 grasses, exceeded 5%.*

Area 6 had a total of 23 species with 4 species, Bluebunch wheatgrass (26.66%), Fourwing saltbush (18.60%), Cheat grass (12.80%), and Big sagebrush (11.46%) with percent cover greater than 5%. *Four species, 2 shrubs and 2 grasses (one of the grasses was the undesirable Cheat grass), exceeded 5%.* Two additional shrub species Winterfat (3.34%) and Green rabbitbrush (2.66%) were also relatively abundant.

Area 7 had a total of 18 species with 4 species, Big sagebrush (29.46%), Fourwing saltbush (21.06%), Cheat grass (16.94%), and Bluebunch wheatgrass (5.46%) with percent cover greater than 5%. *Four species, 2 shrubs and 2 grasses (one of the grasses was the undesirable Cheat grass), exceeded 5%.*

Area 11/13/14 had a total of 21 species with 4 species, Bluebunch wheatgrass (27.06%), Fourwing saltbush (19.74%), Cheat grass (18.94%), and Big sagebrush (4.80%) with percent cover greater than 5%. *Four species, 2 shrubs and 2 grasses (one of the grasses was the undesirable Cheat grass), exceeded 5%.* In addition, Green rabbitbrush (3.46%) was also relatively abundant.

Area 15/17 had a total of 16 species with 4 species, Bluebunch wheatgrass (22.40%), Big sagebrush (16.40%), Fourwing saltbush (15.60%), and Cheatgrass (9.74%)with percent cover greater than 5%. *Four species, 2 shrubs and 2 grasses (one of the grasses was the undesirable Cheat grass) exceeded 5%.*

Area 16 had a total of 15 species with 4 species, Bluebunch wheatgrass (28.40%), Fourwing saltbush (13.74%), Cheatgrass (13.20%), and Big sagebrush (7.6%) with percent cover greater than 5%. *Four species, 2 shrubs, 2 grasses (one of the grasses was the undesirable Cheat grass) exceeded 5%.* In addition, Green rabbitbrush (3.20%) and Shadscale (2.94%) were relatively abundant.

Species diversity with respect to percent cover by species is recorded in Table 7 for each site.

Table 7. Species Diversity Tables

Reference Area (12 total species)		**Area 3 (18 total species)**	
	Species (% cover)		**Species (% cover)**
> 20 %	Juniperus osteosperma (20.54)	> 20%	*Artemisia tridentata (26.26)*
			Atriplex canescens (25.06)
			Agropyron spicatum (20.14)
10 - 20%	*Elymus salinus (13.74)*	10 - 20%	*Elymus giganteous (16.80)*
5 - 10 %		5 - 10 %	*Chrysothamnus nauseosus (5.06)*
1 - 5%	*Pinus edulis (3.46)*	1 - 5%	*Chrysothamnus viscidiflorus (3.06)*
	Gutierezzia sarothrae (1.60)		*Penstemon palmeri (2.14)*
< 1%	*Opuntia compressa (0.66)*	< 1%	*Cowania mexicana (0.80)*
	Bromus tectorum (0.40)		*Agropyron smithii (0.54)*
	Phlox sp. (0.40)		*Elymus cinereus (0.40)*
	Sphaeralcia coccinea (0.26)		*Meliotus officianalis (0.26)*
	Euphorbia fendleri (0.14)		*Maecharantha canescens (0.26)*
	Elymus cinereus (0.14)		*Agropyron cristatum (0.14)*
	Maecharantha canescens (0.14)		*Artemisia nova (0.14)*
	Plantago patagonica (0.14)		*Bromus tectorum (0.14)*
			Grindelia squarrosa (0.14)
			Gutierezzia sarothrae (0.14)
			Sysimbrium altissimum (0.14)

Table 7. Species Diversity Tables (cont.)			
Area 6 (23 total species)		**Area 7 (18 total species)**	
	Species (% cover)		**Species (% cover)**
> 20 %	*Agropyron spicatum (26.66)*	> 20%	*Artemisia tridentata (29.46)*
			Atriplex canescens (21.06)
10 - 20%	*Atriplex canescens (18.60)*	10 - 20%	*Bromus tectorum (16.94)*
	Bromus tectorum (12.80)		
	Artemisia tridentata (11.46)		
5 - 10 %		5 - 10 %	
1 - 5%	*Ceratoides lanata (3.34)*	1 - 5%	*Agropyron spicatum (5.46)*
	Chrysothamnus viscidiflorus (2.66)		*Atriplex confertifolia (2.14)*
	Elymus salinus (2.46)		*Chrysothamnus viscidiflorus (2.14)*
	Gutierrezia sarothrae (1.60)		*Sphaeralicia coccinea (1.60)*
	Artemisia nova (1.20)		*Oryzopsis hymenoides (1.56)*
	Atriplex confertifolia (1.20)		*Gutierrezia sarothrae (1.06)*
			Stipa comata (1.06)
< 1%	*Oryzopsis hymenoides (0.54)*	< 1%	*Penstemon palmeri (0.66)*
	Agropyron smithii (0.40)		*Chrysothamnus nauseosus (0.26)*
	Elymus gigantius (0.40)		*Sysimbrium altissimum (0.26)*
	Chrysothamnus nauseosus (0.26)		*Artemisia nova (0.14)*
	Grindella squarrosa (0.26)		*Ceratoides lanata (0.14)*
	Hilaria jamesii (0.26)		*Cowania mexicana (0.14)*
	Maecharantha canescens (0.26)		*Elymus cinerius (0.14)*
	Penstemon palmeri (0.26)		*Sitanion hystrix (0.14)*
	Bromus inermis (0.14)		
	Elymus cinereus (0.14)		
	Sarcobatus vermiculatum (0.14)		
	Sitanion hystrix (0.14)		
	Sisymbrium altissima (0.14)		

Table 7. Species Diversity Tables (cont.)			
Area 11/13/14 (20 total species)		**Area 15/17 (16 total species)**	
	Species (% cover)		**Species (% cover)**
> 20 %	*Agropyron spicatum (27.06)*	> 20%	*Agropyron spicatum (22.40)*
10 - 20%	*Atriplex canescens (19.94)*	10 - 20%	*Artemisia tridentata (16.40)*
	Bromus tectorum (18.94)		*Atriplex canescens (15.60)*
5 - 10 %		5 - 10 %	*Bromus tectorum (9.74)*
1 - 5%	*Artemisia tridentata (4.80)*	1 - 5%	*Gutierrezia sarothrae (1.86)*
	Chrysothamnus viscidiflorís (3.46)		*Sarcobatus vermiculatus (1.46)*
	Oryzopsis hymenoides (1.46)		
	Agropyron ciristatum (1.34)		
< 1%	*Elymus cinerius (0.80)*	< 1%	*Chrysothamnus nauseosus (0.94)*
	Medicago sativa (0.66)		*Elymus gigantius (0.54)*
	Ceratoides lanata (0.54)		*Oryzopsis hymenoides (0.40)*
	Maecharantha canescens (0.54)		*Artemisia nova (.26)*
	Chrysothamnus nauseosus (0.40)		*Atriplex confertifolia (0.26)*
	Gutierezzia sarothrae (0.40)		*Ceratoides lanata (0.26)*
	Penstemon palmeri (0.40)		*Elymus salinus (0.26)*
	Sarcobatus vermiculatus (0.40)		*Elymus cinereus (0.14)*
	Cowania mexicana (0.26)		*Hilaria jamesii (0.14)*
	Elymus gigantius (0.26)		*Maecharantha canescens (0.14)*
	Elymus salinus (0.26)		
	Grindelia squarrosa (0.14)		
	Phacelia crenulata (0.14)		
	Sphaeralcia coccinea (0.14)		

Table 6. Species Diversity Tables (cont.)	
Area 16 (15 total species)	
	Species (% cover)
> 20 %	*Agropyron spicatum (28.40)*
10 - 20%	*Atriplex canescens (13.74)*
	Bromus tectorum (13.20)
5 - 10 %	*Artemisia tridentata (7.60)*
1 - 5%	*Chrysothamnus nauseosus (3.20)*
	Atriplex confertifolia (2.94)
	Medicago satvia (1.86)
	Penstemon palmeri (1.06)
< 1%	*Elymus cinerius (0.66)*
	Ceratoides lanata (0.54)
	Oryzopsis hynmenoides (0.54)
	Agropyron cristatum (0.40)
	Chrysothamnus viscidifloris (0.40)
	Gutierezzia sarothrae (0.40)
	Maecharantha canescens (0.40)

Similarity

Comparisons of similarity made between the Reference area and revegetated sites indicates that there are only minor similarities between the revegetated sites and the Reference area (Table 8). Similarity coefficients ranged from 11.11 (area 7) to 26.92 (area 11/13/14). See similarity comparisons between the reference area and revegetated areas in Appendix 3. Similarity is strong when values approach 100. Given the revegetation treatments, it is not surprising that the areas are dissimilar with respect to species.

Table 8. Similarity Comparisons - Species Diversity				
Site	Number of Species in Reference Area	Number of Species in Revegetation Site	Number of Species Common to both	Similarity Coefficient
Area 3	12	17	3	11.54
Area 6	12	23	5	16.67
Area 7	12	18	3	11.11
Area 11/13/14	12	21	7	26.92
Area 15/17	12	16	5	21.73
Area 16	12	15	3	12.50

Areas were also different with respect to overall vegetation cover. In each instance, the revegetated areas were more densely vegetated than the reference area. The average percent cover for the Reference area was 43.20%. Percent vegetation cover for the revegetation sites ranged from 70.80% to 88.53% (Table 3).

Life Form Similarity Comparisons

Vegetation treatments have been judged to be successful when cover values of life forms (Shrubs, Forbs, Grasses) in treatment areas are greater or equal to 70% between recliamed areas and the undisturbed reference area. A Jaccard's similarity index for cover (SI=Cover(%) for Life Forms/Total Vegetation Cover (%)) was used to calculate comparative SI values for life forms in revegetated and reference areas (Table 9). Cover values are found in Table 3.

Table 9. Life Form Similarity Index Comparisons based on Cover*								
Life Form	Similarity Index Values by Site							
	Ref	70%	3	6	7	11/13/14	15/17	16
Shrubs	.04	.028	.59*	.47*	.67*	.36*	.52*	.37*
Forbs	.04	.028	.03*	.01	.03*	.02	.01	.05*
Grasses	.36	.252	.38*	.52*	.30*	.62*	.47*	.57*

* Sites that exceed the 70% standard

The comparison of life forms similarity indicates that revegetated areas meet or exceed the 70% standard for almost all life forms in each of the revegetated sites. The revegetated sites all exceeded the 70% standard for both shrubs and grasses. The exceptions were in the forb category. Forbs did not exceed the 70% standard in 3 of the 6 revegetated sites; specifically sites 6, 11/13/14, and 15/15. Given that these are the only 3 treatments of 18 total (17% of total treatments), it appears that the diversity of the sites with respect to life forms generally exceeds that of the reference area.

References

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Utah Climate Center. July 2005. Utah State University, Logan, Utah.

Appendix 1

Percent Cover Data

Horse Canyon Revegatation Project Tally Sheet

Date:
Area: Ref
Transect: 1
UTM: 553536/ 4368080
Heading: 91

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus													1																																						1	2	6.67
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6.67
Forbs & Succulents																																																					
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Phlox															1																																				1	2	6.67
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6.67
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																														1															1						2	4	13.33
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	4	13.33
Trees																																																					
Juniper		1	1	1	1	1	1	1															1	1	1		1																								11	22	73.33
Pinon																																																			0	0	0.00
Total Tree Cover	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	22	73.33
Total Vegetation Cover	0	1	1	1	1	1	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	15	30	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter									1												1					1							1		1															1	6	12	
Rock										1						1	1														1	1		1																	6	12	
Bare Ground	1										1	1		1				1	1	1		1						1	1							1	1	1	1	1	1	1	1	1		1	1	1	1		23	46	
Total Physical Features	1	0	0	0	0	0	0	0	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0	0	0	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	35	70	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date:
Area: Ref
Transect: 2
UTM: 553543/ 4368169
Heading: 91

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatiove Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																													1						1	2	4.76
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2	4.76
Forbs & Succulents																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																									1										1	2	4.76
Plantago patagonica																																												1							1	2	4.76
Syembrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	4	9.52
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																										1				1							1														3	6	14.29
Elymus salinus		1		1	1																						1	1				1	1		1											1	1				10	20	47.62
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	13	26	61.90
Trees																																																					
Juniper																					1	1	1	1	1																										5	10	23.81
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	23.81
Total Vegetation Cover	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	0	1	0	0	0	1	0	0	1	1	1	1	0	0	0	21	42	100.00
Cryptobiotic			1				1	1			1																															1									5	10	
Physical Features																																																					
Litter													1	1	1	1				1														1														1			7	14	
Rock												1						1											1											1			1								5	10	
Bare Ground	1					1			1	1							1		1												1					1		1	1										1	1	12	24	
Total Physical Features	1	0	0	0	0	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	1	1	1	0	0	1	0	0	0	0	1	1	1	24	48	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 3** | **UTM: 55567/ 4368098** | **Heading: 341**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Forbs & Succulents																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Sysymbrium altissimum																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus	1																										1												1					1		1				5	10	25.00
Elymus cinereus																																																		0	0	0.00
Elymus gigantieous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Stanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	5	10	25.00
Trees																																																				
Juniper											1	1	1								1	1	1	1	1	1					1	1	1	1	1														14	28	70.00
Pinon									1																																										1	2	5.00
Total Tree Cover	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	30	75.00
Total Vegetation Cover	1	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	20	40	100.00
Cryptobiotic																																									1										1	2	
Physical Features																																																				
Litter																															1															1					2	4	
Rock		1	1	1	1			1		1																																								6	12	
Bare Ground						1	1				1				1	1	1	1	1	1								1	1	1								1	1		1		1		1			1	1	1	21	42	
Total Physical Features	0	1	1	1	1	1	1	1	0	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	0	1	0	1	1	1	0	1	0	1	1	1	29	58	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 4** | **UTM: 553593/ 4368141** | **Heading: 96**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae	1																																																	1	2	4.76
Total Shrubs Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4.76
Forbs & Succulents																																																						
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Syembrium alliaeimum																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus			1																				1								1	1														1					5	10	23.81
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaris jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stianion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5	10	23.81
Trees																																																					
Juniper											1	1	1					1	1	1	1	1																	1	1	1	1								15	30	71.43
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	0	0	0	15	30	71.43
Total Vegetation Cover	1	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	0	0	21	42	100.00
Cryptobiotic																																	1			1												1			3	6	
Physical Features																																																					
Litter										1																																									1	2	
Rock																								1			1			1																				1	1	5	10	
Bare Ground		1		1	1	1	1	1	1					1	1	1	1								1	1		1	1				1	1							1	1	1							20	40	
Total Physical Features	0	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	26	52	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			

Comments:

Horse Canyon Revegetation Project Tally Sheet

Date:
Area: Ref
Transect: 5
UTM: 553543/ 4368129
Heading:157

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Trees																																																					
Juniper															1	1	1	1	1	1	1	1	1	1							1	1		1	1	1	1	1	1	1			1	1				1	1		23	46	88.46
Pinon																																													1	1	1				3	6	11.54
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	26	52	100.00
Total Vegetation Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	26	52	100.00
Cryptobiotic		1																							1																										2	4	
Physical Features																																																					
Litter													1	1																												1									3	6	
Rock																										1			1												1										3	6	
Bare Ground	1		1	1	1	1	1	1	1	1	1	1															1	1		1			1																	1	16	32	
Total Physical Features	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	22	44	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 6** | **UTM: 553600/ 4368084** | **Heading: 350**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syalmbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																						1		1	1	1	1	1			1	1							1	1												10	20	38.46
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	10	20	38.46
Trees																																																					
Juniper																																																				0	0	0.00
Pinon				1	1	1	1	1	1	1	1	1	1	1																																		1	1	1	1	1	16	32	61.54
Total Tree Cover	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	16	32	61.54
Total Vegetation Cover	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	1	26	52	100.00
Cryptobiotic																							1																														1	2	
Physical Features																																																					
Litter																					1																											1	1		1					4	8	
Rock			1												1	1	1																		1																	5	10	
Bare Ground	1	1																1	1	1									1	1			1			1	1	1					1	1			1					14	28	
Total Physical Features	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	23	46	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:
Area: Ref
Transect: 7
UTM: 0553609/ 4368109
Heading: 360

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Forbs & Succulents																																																					
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																				0	0	0.00
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus			1		1																										1																				3	6	12.50
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	12.50
Trees																																																					
Juniper																				1	1	1	1	1	1	1	1	1	1	1									1	1	1	1	1			1	1	1	1	1	21	42	87.50
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	21	42	87.50
Total Vegetation Cover	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	24	48	100.00
Cryptobiotic																			1																																1	2	
Physical Features																																																					
Litter																																					1	1							1						3	6	
Rock													1	1	1	1																1	1			1															7	14	
Bare Ground	1	1		1		1	1	1	1	1	1	1					1	1																1	1									1							15	30	
Total Physical Features	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	25	50	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 8** | **UTM:** | **Heading: 77**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae		1			1																																														0	0	0.00
Total Shrubs Cover	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8.33
																																																			2	4	8.33
Forbs & Succulents																																																					
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Opuntia compressa																					1	1																													0	0	0.00
Sysimbrium altissimum																																	1																		3	6	12.50
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	12.50
																																																		3	6	12.50
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																							1				1																1						1	4	8	16.67
Elymus cinereus																																																		1	1	2	4.17
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	5	10	20.83
Trees																																																					
Juniper												1		1	1	1	1							1	1	1																										5	15	33.33
Pinon																																					1	1	1	1	1	1									6	12	25.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	14	28	58.33
Total Vegetation Cover	0	1	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	24	48	100.00
Cryptobiotic			1																										1	1																					3	6	
Physical Features																																																					
Litter													1																																1						2	4	
Rock																																		1	1															2	4	
Bare Ground	1			1		1	1	1	1	1	1							1	1	1							1	1			1														1	1	1	1	1		19	38	
Total Physical Features	1	0	0	1	0	1	1	1	1	1	1	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	23	46	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 9** | **UTM: 553590/ 4368157** | **Heading: 156**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																															1	1																			2	4	10.53
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	10.53
Forbs & Succulents																																																					
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																				
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Opuntia compressa				1																																														0	0	0.00
Sysimbrium altissimum																																																				
Total Forb Cover	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5.26
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus									1	1					1					1	1					1	1	1						1	1					1		1	1				1			14	28	73.68
Elymus cinereus																																																		0	0	0.00
Elymus gigantieous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	14	28	73.68
Trees																																																				
Juniper							1	1																																											2	4	10.53
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	10.53
Total Vegetation Cover	0	0	0	1	0	0	1	1	0	1	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	1	1	0	1	1	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	19	38	100.00
Cryptobiotic												1	1	1		1																																				6	12	
Physical Features																																																					
Litter					1	1													1										1																							6	12	
Rock																																																			2	4	
Bare Ground	1	1	1						1								1	1				1	1	1	1					1			1			1	1	1	1		1									17	34	
Total Physical Features	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	0	0	0	1	1	0	0	1	0	0	1	1	1	1	0	1	0	0	0	0	1	1	0	1	1	25	50	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			

Comments:

Horse Canyon Revegetation Project Tally Sheet

Date:
Area: Ref
Transect: 10
UTM: 553573/ 4368209
Heading: 219

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae						1										1																																			2	4	18.18
Total Shrubs Cover	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	18.18
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus	1			1	1					1		1			1		1				1																														8	16	72.73
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	1	1	0	0	0	0	1	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	72.73
Trees																																																					
Juniper																											1																								1	2	9.09
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	9.09
Total Vegetation Cover	1	0	0	1	1	1	0	0	0	1	0	1	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	22	100.00
Cryptobiotic		1	1								1									1					1	1		1	1																						8	16	
Physical Features																																																					
Litter																			1											1																					2	4	
Rock							1						1																																1	1				1	5	10	
Bare Ground								1	1					1				1				1	1	1							1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1		24	48	
Total Physical Features	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	1	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31	62	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 11** | **UTM: 553546/ 4368117** | **Heading: 282**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																					1	1												2	4	7.41
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7.41
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																				1								1							2	4	7.41
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																		1	1	2	4
Syaimbrium alliaimum																																																			0	0	0
Euphorbia fendleri						1																																													1	2	4
Total Forb Cover	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	4	8	14.81
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus								1																									1	1	1															6	12	22.22
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	6	12	22.22
Trees																																																					
Juniper					1										1					1	1	1	1	1	1	1	1	1	1	1	1																					15	30	55.56
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	30	55.56
Total Vegetation Cover	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	1	1	0	0	1	27	54	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																1	1																																				2	4	
Rock				1				1	1	1	1	1	1																																						7	14	
Bare Ground	1	1	1				1											1	1																						1	1	1	1		1	1			1	1		14	28	
Total Physical Features	1	1	1	1	0	0	1	0	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	0	0	1	1	0	23	46	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 12** | **UTM: 553556/ 4368178** | **Heading: 255**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae									1		1																																									0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7.69
Forbs & Succulents																																																				2	4	7.69
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus	1	1	1	1				1																						1																				7	14	26.92
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	7	14	26.92
Trees																																																					
Juniper																	1	1	1	1	1	1	1	1	1	1							1	1	1	1			1	1	1										17	34	65.38
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	17	34	65.38
Total Vegetation Cover	1	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	1	1	1	1	0	0	0	1	1	1	0	0	0	1	0	0	0	0	26	52	100.00
Cryptobiotic										1																																							1	1	1	4	8	
Physical Features																																																					
Litter																																																				0	0	
Rock												1																		1									1												3	6	
Bare Ground					1	1	1						1	1	1	1											1	1	1	1									1	1					1	1	1		1				17	34	
Total Physical Features	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	1	0	0	0	26	40	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 13** | **UTM: 553509/ 4368118** | **Heading: 351**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																		0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Forbs & Succulents																																																						
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Symphoricarpos albus																																																				
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus				1	1	1	1	1	1	1	1																																		1	1	1	1		1	13	28	61.90
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	13	28	61.90
Trees																																																					
Juniper																						1	1	1	1	1	1	1	1																							8	16	38.10
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	38.10
Total Vegetation Cover	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	21	42	100.00
Cryptobiotic																																							1	1	1	1								1	5	10	
Physical Features																																																				
Litter																																																		0	0	
Rock															1	1																		1	1														4	8	
Bare Ground	1	1	1									1	1	1	1			1	1	1	1									1	1	1	1				1	1	1					1	1						20	40	
Total Physical Features	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	24	48	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				



Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 14** | **UTM: 553505/ 4368164** | **Heading: 107**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Forbs & Succulents																																																		0	0	0.00
Grindelia squarrosa																																																				
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Syalmbrium allissimum																																																				
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus		1			1										1								1		1	1				1	1									1		1		1	1	1	1			14	28	50.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	1	1	0	0	0	14	28	50.00
Trees																																																				
Juniper							1	1	1	1						1	1	1	1	1	1	1																												1	1	1	14	28	50.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	14	28	50.00
Total Vegetation Cover	0	1	0	0	1	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	1	1	1	1	1	1	1	28	56	100.00
Cryptobiotic											1	1																																							2	4	
Physical Features																																																				
Litter																											1	1	1																								3	6	
Rock			1										1											1															1												4	8	
Bare Ground	1			1		1								1																		1	1	1	1	1	1	1		1		1							13	26	
Total Physical Features	1	0	1	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	20	40	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: Ref** | **Transect: 15** | **UTM: 553550/ 4368180** | **Heading: 210**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae								1																																										1	2	6.67
Total Shrubs Cover	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6.67
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium allissimum																																																			0	0	0.00
Phlox									1																																											1	2	6.67
Opuntia compressa																																																			1	2	6.67
Total Forb Cover	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	4	13.33
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus	1	1	1									1	1							1									1	1						1											1	1	1	12	24	80.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	12	24	80.00
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	1	15	30	100.00
Cryptobiotic														1			1				1	1	1	1			1					1											1	1	1			1				12	24	
Physical Features																																																					
Litter															1	1										1							1	1																		5	10	
Rock																		1	1																																	2	4	
Bare Ground				1	1	1	1			1	1														1			1			1						1	1			1	1			1	1	1				16	32	
Total Physical Features	0	0	0	1	1	1	1	0	0	1	1	0	0	0	1	1	0	1	1	0	0	0	0	0	1	1	0	1	0	0	1	0	1	1	1	1	0	1	1	1	0	0	0	0	1	1	0	0	0	0	23	46	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: 7/3/04 | **Area: 3** | **Transect: 1** | **UTM: 555553/4368074** | **Heading: 236**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens									1	1	1	1						1	1	1					1	1	1		1									1	1	1	1	1									17	34	35.42
Atriplex confertifolia																																												1							0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1	1		1	1													1	1	1					1	1			1	1																	11	22	22.92
Chrysothamnus nauseosus			1																																									1						2	4	4.17
Chrysothamnus viscidiflorus																																														1				1	2	2.08
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	31	62	64.58
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii	1																																																		1	2	2.08
Agropyron spicatum														1	1	1											1						1																	1	1	7	14	14.58
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous						1							1																		1	1										1		1	1	1					9	18	18.75
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	17	34	35.42
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	48	96	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground		1															1																																				2	4	
Total Physical Features	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: 7/3/04 | **Area: 3** | **Transect: 2** | **UTM: 555531/4368045** | **Heading: 8**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1	1	1	1					1	1	1								1	1											1	1	1					1	1	1	1				1	1		18	36	36.73
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus													1	1	1																													1							4	8	8.16
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	0	22	44	44.89
Forbs & Succulents																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Symbrium alliissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1						1	1										1	1					1	1	1		1	1										1						1				1	13	26	26.53
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus gigantesus						1			1							1	1					1	1							1	1					1	1	1	1					1	1					14	28	28.57
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	1	27	54	55.10
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	46	96	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground																											1																									1	2	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: 7/3/04 | **Area: 3** | **Transect: 3** | **UTM: 555497/4368047** | **Heading: 201**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1			1	1			1				1	1	1	1						1	1	1															1	1	1										16	32	32.65
Atriplex confertifolia																																													1	1				0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata						1	1									1	1	1						1	1	1	1	1	1	1	1	1	1																	17	34	34.69
Chrysothamnus nauseosus																																		1	1																2	4	4.08
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	0	1	1	1	1	0	0	0	35	70	71.43
Forbs & Succulents																																																						
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																										1								1	2	2.04
Sysimbrium altissimum																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	2.04
Grasses																																																					
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum											1									1															1	1											1	1	6	12	12.24
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous		1	1						1	1																								1										1						7	14	14.29
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	13	26	26.53
Trees																																																					
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	49	98	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter																																																		0	0	
Rock																																																		0	0	
Bare Ground																			1																																	1	2	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				



Horse Canyon Revegatation Project Tally Sheet

Date: 7/3/04 | **Area: 3** | **Transect: 4** | **UTM: 555480/4368008** | **Heading: 213**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																											1	1																				1	1		4	8	6.35
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata					1						1																																							1	1	2	2.33
Chrysothamnus nauseosus									1	1														1	1	1											1	1	1						1	1	1				9	18	20.93
Chrysothamnus viscidiflorus																																												1							6	12	13.96
Cowania mexicana								1															1																												0	0	0.00
Ceratoides lanata																																																		2	4	4.65
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	22	44	51.16
Forbs & Succulents																																																		0	0	0.00
Grindelia squarrosa																																																				
Machaeranthera canescens																																	1																		1	2	2.33
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri	1			1								1																																							3	6	6.98
Sphaeralcia coccinea																																																		0	0	0.00
Sysimbrium altissimum																																																				
Total Forb Cover	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	9.30
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum		1	1				1								1	1	1	1	1		1									1	1																		11	22	25.58
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous													1	1								1							1								1	1													6	12	13.95
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	1	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	17	34	39.53
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	43	86	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																			
Litter																																	1																		1	2	
Rock																																																		0	0	
Bare Ground					1															1															1			1							1	1				6	12	
Total Physical Features	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	7	14	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 3** | **Transect: 5** | **UTM: 555480/4368008** | **Heading: 55**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens					1	1	1	1	1	1								1										1	1	1	1																					14	28	35.00
Atriplex confertifolia																																					1	1	1												0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata			1								1	1				1	1		1	1					1	1	1								1	1															17	34	42.50
Chrysothamnus nauseosus	1	1																															1	1																	4	8	10.00
Chrysothamnus viscidiflorus																																											1	1							2	4	5.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	37	74	92.50
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			1	2	2.50
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	2.50
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																					1																															1	2	2.50
Agropyron cristatum																																		1																	1	2	2.50
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5.00
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	40	80	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																						1												1																	2	4	
Rock																																																			0	0	
Bare Ground				1									1	1	1								1	1								1																		1	6	16	
Total Physical Features	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	20	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: 7/3/04 | **Area: 3** | **Transect: 6** | **UTM:** | **Heading: 45**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																												1																							7	14	15.22
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																		1	1	1	1						1	1					1	1	1	1				1	1									12	24	26.09
Chrysothamnus nauseosus																																						1	1											2	4	4.35
Chrysothamnus viscidiflorus				1	1	1		1																																										4	8	8.70
Cowania mexicana							1										1					1																													3	6	6.52
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	1	1	1	1	1	1	0	0	0	1	1	1	28	56	60.87
Forbs & Succulents																																																		0	0	0.00
Grindelia squarrosa																																																				
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Syaimbrium alissimum																																																				
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum	1	1							1	1					1	1								1	1	1				1							1									1				12	24	26.09
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum			1																																															1	2	2.17
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																1																		1	2	2.17
Elymus giganteus											1	1											1																							1					4	8	8.70
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	1	1	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	18	36	39.13
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	46	92	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter													1	1																																					2	4	
Rock																																																		0	0	
Bare Ground																															1																	1			2	4	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4	8	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 3** | **Transect: 7** | **UTM: 55504904/ 4368049** | **Heading: 229**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1																																			1	1													3	6	7.32
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata			1	1	1				1	1	1	1	1	1	1	1	1	1	1	1									1	1	1																			19	38	46.34
Chrysothamnus nauseosus																																																		1	0	0	0.00
Chrysothamnus viscidiflorus																																			1	1					1	1	1								5	10	12.20
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	1	27	54	65.85
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri								1																																	1	1			1						4	8	9.76
Sphaeralcia coccinea																																																			0	0	0
Sysimbrium altissimum																																																	1				1	2	4
Total Forb Cover	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	5	10	12.20
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum	1																								1			1																								3	6	7.32
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous						1																										1		1											1			1	1		6	12	14.63
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	9	18	21.95
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	41	82	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																1																			1	2	
Rock																																																			0	0	
Bare Ground							1														1	1	1	1		1	1																				1					8	16	
Total Physical Features	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	9	18	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:
Area: 3
Transect: 8
UTM: 555447/ 4368020
Heading: 141

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens				1	1	1	1					1														1	1	1																1				1			10	20	21.74
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata														1	1	1	1	1	1	1	1												1	1	1	1	1					1	1								15	30	32.61
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus		1																														1						1	1												4	8	8.70
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover		1	0	1	1	1	1	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	1	0	0	29	58	63.04
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Grindelia squarrosa	1																																																		1	2	2.17
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.17
Grasses																																																					
Agropyron smithii													1																																						1	2	2.17
Agropyron spicatum			1						1																				1	1	1															1	1				7	14	15.22
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous								1		1	1											1	1	1	1																				1						8	16	17.39
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	16	32	34.78
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	46	92	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground																																								1	1								1	1	4	8	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	4	8	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:
Area: 3
Transect: 9
UTM: 555440/ 4367985
Heading: 289

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens									1	1	1	1	1	1		1												1	1	1																					10	20	22.22
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1														1		1	1	1	1	1					1	1												1	1	1	1	1			1					15	30	33.33
Chrysothamnus nauseosus																																												1	1		1	1			4	8	8.89
Chrysothamnus viscidiflorus																																																	1		1	2	2.22
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	30	60	66.67
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Meliotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum		1	1	1	1																	1	1										1	1																	8	16	17.78
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous						1	1	1																1	1						1	1																			7	14	15.56
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	30	33.33
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	45	90	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																						1													1	2	
Rock																																																			0	0	
Bare Ground																																			1	1	1													1	4	8	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	5	10	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:
Area: 3
Transect: 10
UTM: 555436/ 4368015
Heading: 63

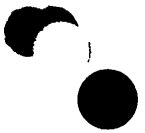
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens					1																1	1				1									1	1					1										7	14	15.22
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata						1	1							1	1								1	1	1								1	1																1	10	20	21.74
Chrysothamnus nauseosus												1	1																																			1	1		4	8	8.70
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																															1				1	2	2.17
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	1	22	44	47.83
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																														1					1	2	2.17
Agropyron spicatum		1	1								1					1	1	1										1	1	1	1	1											1								12	24	26.09
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous				1				1	1	1																	1										1	1	1	1				1	1						11	22	23.91
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	1	1	0	0	0	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0	0	0	24	48	52.17
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	46	92	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground	1																		1	1																						1									4	8	
Total Physical Features	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	8	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 3** | **Transect: 11** | **UTM: 555477/ 4368032** | **Heading: 81**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1	1	1	1																																											4	8	9.52
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata								1	1						1											1	1	1				1	1	1	1	1	1	1						1	1	1		16	32	38.10
Chrysothamnus nauseosus																								1	1																										2	4	4.76
Chrysothamnus viscidiflorus																		1														1							1									1	3	6	7.14
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	26	50	59.52
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri	1	1	1													1	1																																	6	12	14.29
Sphaeralcia coccinea																																																		0	0	0.00
Sysimbrium altissimum																																																				
Total Forb Cover	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6	12	14.29
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum													1	1						1	1																															6	12	14.29
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous										1	1	1						1	1																																5	10	11.90
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	11	22	26.19
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground																						1	1						1	1	1															1	1	1				6	16	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	8	16	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					





Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 3** | **Transect: 12** | **UTM: 555497/ 4368047** | **Heading: 360**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																		1	1	1								1	1							1															6	12	14.29
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata			1				1																							1	1			1	1											1				7	14	16.67
Chrysothamnus nauseosus																																1	1																	2	4	4.76
Chrysothamnus viscidiflorus													1	1																																						2	4	4.76
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	17	34	40.48
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																								1																														
Medicago sativa																																																1				2	4	4.76
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																							1																														1	2	2.38
Sphaeralcia coccinea																																																			1	2	2.38
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	4	8	9.52
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum		1		1		1																1	1														1	1	1	1			1	1				1			12	24	28.57
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous								1	1	1	1	1									1				1																					1				1		6	18	21.43
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	0	1	0	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	1	1	0	21	42	50.00
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	42	84	100.00
Cryptobiotic															1							1																															2	4	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground	1				1											1	1																																	1		6	12	
Total Physical Features	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	6	12	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	

Comments:

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 3** | **Transect: 13** | **UTM: 555513** | **Heading: 219**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																					1	1	1	1						1	1	1	1	1	1												1	1	1		13	26	29.55
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata						1	1	1	1																			1																						7	14	15.91
Chrysothamnus nauseosus																											1																						1	2	2.27
Chrysothamnus viscidiflorus																																																	0	0	0.00
Cowania mexicana																																																	0	0	0.00
Ceratoides lanata																																																	0	0	0.00
Ephedra viridis																																																	0	0	0.00
Sarcobatus vermiculatus																																																	0	0	0.00
Gutierrezia sarothrae																																																	0	0	0.00
Total Shrubs Cover	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	21	42	47.73
Forbs & Succulents																																																					
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Sysimbrium altissimum																																																				
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum										1	1		1	1				1	1	1						1	1												1	1	1	1	1								14	28	31.82
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteus															1	1	1								1											1	1					1	1	1						9	18	20.45
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	23	46	52.27
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44	88	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																			
Litter	1																																																	1	2	
Rock																																																		0	0	
Bare Ground		1	1	1	1							1																																						5	10	
Total Physical Features	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 3** | **Transect: 14** | **UTM: 555473/ 4368012** | **Heading: 194**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens									1	1	1	1	1	1												1	1	1	1	1																						11	22	26.56
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata						1	1																							1																					0	0	0.00
Chrysothamnus nauseosus	1																																			1	1	1													9	18	20.93
Chrysothamnus viscidiflorus																																																		1	2	2.33
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	0	0	0	0	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	21	42	48.84
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum		1	1																		1		1	1									1	1						1	1	1									10	20	23.26
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigarteous					1			1							1	1	1	1	1	1		1			1															1						1					12	24	27.91
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	1	0	1	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	22	44	51.16
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	43	86	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																		1	1	2	
Rock																																																			0	0	
Bare Ground				1																											1	1											1	1	1					6	12	
Total Physical Features	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	7	14	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 3** | **Transect: 15** | **UTM: 555431/ 4367986** | **Heading: 94**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens					1	1	1																																												8	16	20.00
Atriplex confertifolia																																									1	1	1	1	1						0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																							1	1	1	1						1	1	1	1	1			1	1									11	22	27.50
Chrysothamnus nauseosus																											1										1														2	4	5.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																	1																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	22	44	55.00
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum											1	1						1				1						1																				1	1			7	14	17.50
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																			1																																	1	2	2.50
Elymus giganteus								1	1	1				1	1	1																																					10	20	25.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	18	36	45.00
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	40	80	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter	1	1																																																	2	4	
Rock																																																			0	0	
Bare Ground			1	1									1							1	1									1	1	1																			8	16	
Total Physical Features	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 1** | **UTM: 55617/ 4368160** | **Heading: 202**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens				1	1	1		1	1							1								1					1	1	1					1															11	22	26.19
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																			1																2	4	4.76
Artemisia tridentata tridentata																									1							1																				2	4	4.76
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																										1																										1	2	2.38
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	1	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	16	32	38.10
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum							1					1	1	1					1	1			1																												1			11	22	26.19
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum										1	1				1		1	1									1	1					1	1			1	1	1	1										1	14	28	33.33
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			1	2	2.38
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	0	0	1	26	52	61.90
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																					1	1																															2	4	
Rock																																																			0	0	
Bare Ground	1	1	1																																								1						1	1		6	12	
Total Physical Features	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	8	16	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 2** | **UTM: 555587/ 4368161** | **Heading: 39**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																1	1	1						1	1	1				1	1				1	1	1	1													13	26	34.21
Atriplex confertifolia																																																				0	0	0.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata			1	1	1														1	1							1	1	1																			1	1			10	20	26.32
Chrysothamnus nauseosus																																																				0	0	0.00
Chrysothamnus viscidiflorus																																																				0	0	0.00
Cowania mexicana																																																				0	0	0.00
Ceratoides lanata																																																				0	0	0.00
Ephedra viridis																																																				0	0	0.00
Sarcobatus vermiculatus											1																																									0	0	0.00
Gutierrezia sarothrae																																																				1	2	2.63
Total Shrubs Cover	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	24	46	63.16
Forbs & Succulents																																																							
Machaeranthera canescens	1																																																				0	0	0.00
Medicago sativa																																																				1	2	2.63
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Sysimbrium altissimum																																																				0	0	0.00
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.63
Grasses																																																						
Agropyron smithii												1																																									1	2	2.63
Agropyron spicatum						1																										1								1										4	8	10.53
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum										1			1	1	1						1	1	1								1																						8	16	21.05
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																				0	0	0.00
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	0	0	0	0	0	1	0	0	0	1	0	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	13	26	34.21
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	38	76	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																						
Litter		1					1																											1	1												1				6	12	
Rock																																																				0	0	
Bare Ground								1	1																																											6	12	
Total Physical Features	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	12	24	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																						

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 3** | **UTM: 555600/ 4368180** | **Heading: 304**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens					1	1	1																																			1									4	8	9.76
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata								1								1	1						1																													4	8	9.76
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																		1	1	2	2.44
Total Shrubs Cover	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	9	18	21.95
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syymbrium alissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum													1	1										1	1	1																										5	10	12.20
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum		1	1	1					1	1	1	1						1																																		8	16	19.51
Elymus salinus																															1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	16	32	39.02
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																													1	1																						2	4	4.88
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix	1																																																		1	2	2.44
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	32	64	78.05
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	41	82	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																					1																																1	2	
Rock															1																															1						2	4	
Bare Ground																			1	1		1								1	1	1																			6	12	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	9	18	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 4** | **UTM: 555560/ 4368204** | **Heading: 200**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens			1						1	1	1														1																										5	10	12.20
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																												1					1																		2	4	4.88
Artemisia tridentata tridentata												1	1																					1						1			1								5	10	12.20
Chrysothamnus nauseosus																	1																																		1	2	2.44
Chrysothamnus viscidiflorus																																								1	1								1	3	6	7.32
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata				1																						1	1										1	1														5	10	12.20
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	1	0	0	0	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	21	42	51.22
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syambrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1				1	1	1																																											1	6	10	12.20
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum		1						1						1	1	1							1	1				1	1	1	1											1									12	24	29.27
Elymus salinus																			1																																	1	2	2.44
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																		1																																	1	2	2.44
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0
Bromus inermis																																																		1	1	2	4
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	0	1	1	1	1	0	0	0	0	0	1	1	1	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	20	40	48.78
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	41	82	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																				1	1	1																									1	1	1	1				7	14	
Bare Ground																																			1	1															2	4	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	9	18	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			

Comments:

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 5** | **UTM: 555540/ 4368121** | **Heading: 59**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens								1	1									1								1	1																		1	1					8	16	17.02
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1	1	1	1					1	1	1	1	1	1								1																											14	28	29.79
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	22	44	46.81
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																															1																			1	2	2.13
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.13
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																1	1						1						1					4	8	8.51
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum	1	1	1							1	1								1			1	1	1				1	1				1	1	1	1	1			1	1	1	1							20	40	42.55
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	24	48	51.06
Trees																																																				
Juniper																																																				0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	47	94	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																					1																																1	2	
Rock																														1																						1	2	
Bare Ground	0	0	0	0																1																																1	2	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 6** | **UTM: 555561/ 4368136** | **Heading: 276**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens														1																																					1	2	2.33
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata													1		1	1	1	1																																5	10	11.63
Chrysothamnus nauseosus																														1																				0	0	0.00
Chrysothamnus viscidiflorus																																																	1	2	2.33
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	14	16.28
Forbs & Succulents																																																					
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																				
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Sysimbrium altissimum																																																		0	0	0.00
Grindelia squarrosa																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2.33
Grasses																																																		1	1	2	2.33
Agropyron smithii																																					1														1	2	2.33
Agropyron spicatum	1	1	1	1		1	1	1				1							1		1	1	1	1		1	1	1	1		1	1	1	1	1	1				1	1	1		1						28	56	65.12
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																																					1		1							1					3	6	6.98
Elymus salinus																																														1	1					2	4	4.65
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides					1																																													1	2	2.33
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	35	70	81.40
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	43	86	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter																									1																										1	2	
Rock																																																		0	0	
Bare Ground	0	0	0						1	1	1									1																								1				1				6	12	
Total Physical Features	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	7	14	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 7** | **UTM: 555499/ 4368180** | **Heading: 172**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1	1							1	1				1										1	1	1	1							1													12	24	27.27
Atriplex confertifolia																																																				0	0	0.00
Artemisia nova								1	1																																										2	4	4.55
Artemisia tridentata tridentata					1					1								1									1																									5	10	11.36
Chrysothamnus nauseosus																																					1									1					0	0	0.00
Chrysothamnus viscidiflorus																																																			2	4	4.55
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata	1	1	1	1								1	1																																							6	12	13.64
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	0	0	27	54	61.36
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum											1					1	1			1	1	1	1				1						1	1	1					1											0	0	0.00
Agropyron cristatum																																																				16	32	36.36
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																	1																		1	2	2.27
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	1	1	1	0	0	0	1	0	17	34	38.64
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	44	88	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																										1																										1	2	
Rock																								1																												2	4	
Bare Ground																									1																										1	3	6	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	6	12	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area:6** | **Transect: 8** | **UTM: 555496/ 4368161** | **Heading: 271**

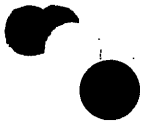
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens			1	1											1							1																													6	16	20.00
Atriplex confertifolia																																									1	1	1					1			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata											1	1	1	1									1	1																											0	0	0.00
Chrysothamnus nauseosus																																		1	1															1	9	18	22.50
Chrysothamnus viscidiflorus		1																																																	0	0	0.00
Cowania mexicana																																						1													3	6	7.50
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																													1						1	2	2.50
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	1	1	1	1	1	0	0	0	1	1	21	42	52.50
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syselnbrium allissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum	1				1	1	1	1	1						1	1	1	1	1						1								1	1			1			1							1	1			19	38	47.50
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	1	0	0	1	1	1	0	0	0	0	0	0	1	1	19	38	47.50
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	40	80	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																										1					1																					2	4	
Rock																																																				0	0	
Bare Ground									1												1						1	1	1	1							1									1					8	16	
Total Physical Features	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	10	20	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 9** | **UTM: 555456/ 4368153** | **Heading: 246**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1	1	1																											1	1	1	1	1	1										1	1	1	1	1	15	30	32.61
Atriplex confertifolia																1	1	1	1	1	1	1	1	1																											9	18	19.57
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata															1																																					1	2	2.17
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae					1																																														1	2	2.17
Total Shrubs Cover	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	26	52	56.52
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum							1	1	1	1	1		1	1											1	1	1	1									1	1	1	1											0	0	0.00
Agropyron cristatum																																																				18	36	39.13
Bromus tectorum																													1	1																							0	0	0.00
Elymus salinus																																																			2	4	4.35
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	20	40	43.48
Trees																																																				
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	46	92	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground					1							1																																	1	1						4	8	
Total Physical Features	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	4	8	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				





Horse Canyon Revegetation Project Tally Sheet

Date:
Area:
Transect:
UTM:
Heading:

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens				1	1	1						1	1	1	1	1	1	1	1						1	1	1																								14	28	31.11
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																												1	1	1					3	6	6.67
Total Shrubs Cover	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	17	34	37.78
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum		1	1				1	1		1										1												1			1	1					1	1					1	1		1	14	28	31.11
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum	1										1										1	1	1	1				1	1	1	1						1	1	1	1											14	28	31.11
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	1	28	56	62.22
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	45	90	100.00
Cryptobiotic																																																	1		1	2	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground									1																								1	1									1								4	8	
Total Physical Features	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	8	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 11** | **UTM: 555518/ 4368132** | **Heading: 177**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																										1	1				1	1	1	5	10	12.82
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova		1																																																1	2	2.56
Artemisia tridentata tridentata																			1	1	1							1								1														8	16	20.51
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																	1	1																2	4	5.13
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae							1																										1				1				1								4	8	10.26
Total Shrubs Cover	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	20	40	51.28
Forbs & Succulents																																																						
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Sysimbrium altissimum																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1		1	1	1	1			1	1			1	1	1			1				1	1							1						1					1									16	32	41.03
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum												1																																						1	2	2.56
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides											1																	1																						2	4	5.13
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	19	38	48.72
Trees																																																					
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	39	78	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																										1																									1	2	
Rock																																																			0	0	
Bare Ground								1								1	1							1	1		1			1	1										1	1								10	20	
Total Physical Features	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	11	22	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 12** | **UTM: 555463/ 4368117** | **Heading: 224**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens										1	1						1																																						
Atriplex confertifolia																																																			4	8	10.26
Artemisia nova																					1	1																															0	0	0.00
Artemisia tridentata tridentata				1				1				1	1			1								1	1																											2	4	5.13
Chrysothamnus nauseosus																				1															1	1	1		1		1			1	1	1		1			15	30	38.46
Chrysothamnus viscidiflorus																																																			1	2	2.56
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																												1																								0	0	0.00
Total Shrubs Cover	0	0	0	1	0	0	0	0	1	1	1	1	1	0	0	1	1	0	0	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	1	0	0	0	0	1	1	1	1	1	0	0	23	46	58.97
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri	1																																																		0	0	0.00
Sphaeralcia coccinea																																						1													2	4	5.13
Syaimbrium altissimum																																																			0	0	0.00
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5.13
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum		1	1			1	1	1						1	1													1					1											1		1	1					0	0	0.00
Agropyron cristatum																																																				14	28	35.90
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	1	14	28	35.90
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	39	78	100.00
Cryptobiotic					1																																														1	2	
Physical Features																																																					
Litter																													1				1																		2	4	
Rock																																																				0	0	
Bare Ground																		1	1						1	1	1				1	1											1									8	16	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10	20	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 13** | **UTM: 555454/ 4368117** | **Heading: 344**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens										1	1	1								1	1	1								1	1		1		1	1	1				1	1								15	30	35.71
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata									1																													1				1								3	6	7.14
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus				1	1	1	1						1																				1																	6	12	14.29
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	24	48	57.14
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum								1						1	1			1	1				1	1				1																1	1	1	1					13	26	30.95
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum	1	1																											1												1										4	8	9.52
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			1	2	2.38
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	0	0	18	36	42.86
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																											1																									1	2	
Rock																										1																									1	2	
Bare Ground			1													1	1								1																								1	1	6	12	
Total Physical Features	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	8	16	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 6** | **Transect: 14** | **UTM: 555412/ 4368125** | **Heading: 40**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens							1	1	1	1								1	1	1	1												1		1	1								1						12	24	26.67
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata											1	1										1									1			1																	5	10	11.11
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			1	2	2.22
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	18	36	40.00
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum						1							1	1	1	1							1	1			1	1	1	1	1						1	1								1	1		1	1	1	1	22	44	48.89
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum	1	1	1	1	1																																															5	10	11.11
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																				0	0	0.00
Elymus gigenteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	1	1	1	1	1	0	0	1	1	0	1	27	54	60.00
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	45	90	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																				0	0	
Rock																																																			0	0	
Bare Ground																	1								1	1													1										1		6	10	
Total Physical Features				0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	5	10	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: | **Area: 6** | **Transect: 15** | **UTM: 555511/ 4368144** | **Heading: 330**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens									1	1	1	1	1	1	1	1																				1	1	1	1	1											13	26	27.08
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata								1																																										1	2	2.08
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			3	6	6.25
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																1	1	1	1															10	20	20.83
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae							1																																												1	2	2.08
Total Shrubs Cover	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	28	56	58.33
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens			1																																																1	2	2.08
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Grindelia squarrosa	1																																																		1	2	2.08
Total Forb Cover	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4.17
Grasses																																																						
Agropyron smithii		1																																																		1	2	2.08
Agropyron spicatum				1	1												1	1	1	1		1	1	1		1	1																									11	22	22.92
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																					1							1	1	1	1																					5	10	10.42
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																									1																											1	2	2.08
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	36	37.50
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	48	96	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground						1																																						1							2	4	
Total Physical Features	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	4	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 1** | **UTM: 555242/ 4368079** | **Heading: 80**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata								1						1		1	1	1	1								1	1	1	1	1	1	1			1	1	1	1	1	1								1	20	40	55.56
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus			1																																							1	1	1	1				1	6	12	16.67
Cowania mexicana																																																		0	0	0.00
Coralolides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae															1																																			1	2	2.78
Total Shrubs Cover	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	27	54	75.00
Forbs & Succulents																																																		0	0	0.00
Grindelia squarrosa																																																				
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri													1																																					1	2	2.78
Sphaeralcia coccinea																																		1																1	2	2.78
Syssimbrium altissimum																																																				
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5.56
Grasses																																																				
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum		1					1			1	1									1																																5	10	13.89
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigantieous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides								1																																											1	2	2.78
Sitanion hystrix	1																																																		1	2	2.78
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	14	19.44
Trees																																																				
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	36	72	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																		1	1	1			3	6	
Rock				1																																															1	2	
Bare Ground					1	1						1									1	1	1	1	1	1									1																10	20	
Total Physical Features	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	14	28	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegetation Project Tally Sheet

Date:
Area: 7
Transect: 2
UTM: 555388/ 4368086
Heading: 181

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens									1						1	1	1	1		1								1	1									1	1	1											11	22	27.50
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata					1	1	1	1											1								1							1	1	1	1				1	1	1	1	1			1	1	1	18	36	45.00
Chrysothamnus nauseosus																														1	1																				2	4	5.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae				1																	1	1																													3	6	7.50
Total Shrubs Cover	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	34	68	85.00
Forbs & Succulents																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri			1																																																1	2	2.50
Sphaeralcia coccinea																																																			0	0	0.00
Syembrium altissimum																																																					
Total Forb Cover	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.50
Grasses																																																						
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																										1																									1	2	2.50
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum		1											1	1																																					3	6	7.50
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																1																			1	2	2.50
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	12.50
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	40	80	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter	1																																1													1	1				4	8	
Rock																																																			0	0	
Bare Ground										1	1	1											1	1	1																										6	12	
Total Physical Features	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	10	20	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 3** | **UTM: 555371/ 4368080** | **Heading: 90**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1	1	1	1	1	1							1	1	1	1						1												1	1	1												18	32	35.56
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1	1	1									1	1	1	1					1	1	1	1							1	1	1	1	1	1									1	1	1	1			1	1	23	46	51.11
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0	1	1	39	78	86.67
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syembrium alliissimum																																																			1	2	2.22
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	2	2.22
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																													1							1														2	4	4.44
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																								1																												3	6	6.67
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	5	10	11.11
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45	90	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter										1	1																																									2	4	
Rock																																																				0	0	
Bare Ground																										1	1	1																									3	6	
Total Physical Features	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 4** | **UTM: 555417/ 4368064** | **Heading: 258**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1	1	1	1	1	1																							1	1	1				1	1	1	1	1	1	1			1	1	19	38	44.19
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata			1							1	1	1				1	1	1	1	1			1	1	1				1	1	1				1															17	34	39.53
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	1	1	36	72	83.72
Forbs & Succulents																																																						
Mechaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syambrium alliasimum		1																																																	0	0	0.00
Total Forb Cover	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.33
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum	1												1	1	1											1										1																6	12	13.95
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	13.95
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	43	86	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																					1						1										1															3	6	
Rock																																																			0	0	
Bare Ground																						1						1										1												1		4	8	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	7	14	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 5** | **UTM: 555412/ 4368092** | **Heading: 209**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																1	1	1				1	1	1	1	1								8	16	20.51
Atriplex corderifolia																																																			0	0	0.00
Artemisia nova																																											1								1	2	2.56
Artemisia tridentata tridentata								1	1	1	1	1	1	1	1			1	1	1	1	1				1	1																					1		16	32	41.03
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																												1																								1	2	2.56
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	0	28	52	66.67
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri	1																																																		0	0	0.00
Sphaeralcia coccinea																														1																					2	4	5.13
Sysimbrium altissimum																																																			1	2	2.56
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	6	7.69
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum		1	1	1	1	1	1																		1				1	1					1															10	20	25.64
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20	25.64
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	1	1	0	39	78	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																				1															1	2	4	
Rock																																																				0	0	
Bare Ground																1	1						1	1													1							1	1	1	1					9	18	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	11	22	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

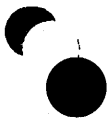
Date: | **Area: 7** | **Transect: 6** | **UTM: 555410/ 4368066** | **Heading: 59**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens													1	1	1																																								
Atriplex confertifolia																																					1	1	1	1	1	1							1	1	11	22	28.16
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata	1	1	1	1	1	1				1	1	1				1	1	1	1				1	1	1	1	1	1					1	1	1	1														0	0	0.00
Chrysothamnus nauseosus																																											1	1	1	1					27	54	64.29
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	38	76	90.48
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																													1		1	1																				0	0	0.00
Agropyron cristatum																																																			4	8	9.52
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4	8	9.52
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter								1	1											1										1																							5	10	
Rock																																																				0	0	
Bare Ground							1														1	1																														3	6	
Total Physical Features	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	8	16	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date:	Area: 7	Transect: 7	UTM: 555423/ 4368102	Heading: 115

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																										1	1	1	1						1	1	1	1	1	1	1	1	1									14	28	31.11
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata														1	1							1	1	1	1								1									1	1	1						10	20	22.22
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus	1	1											1																																						3	6	6.67
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	27	54	60.00
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum												1				1																																				2	4	4.44
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum			1	1	1					1										1	1								1		1																			1	1	1	12	24	26.67
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides						1	1	1	1																																											4	8	8.89
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	18	36	40.00
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45	90	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																			1													1																				2	4	
Rock																																																			0	0	
Bare Ground											1						1	1																																		3	6	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					


Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 8** | **UTM: 555477/ 4368086** | **Heading: 240**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1	1									1	1	1								1	1																												
Atriplex confertifolia																																										1	1	1	1	1	1	1		14	28	33.33
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1							1	1	1					1				1					1	1																											0	0	0.00
Chrysothamnus nauseosus																																									1									9	18	21.43
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	23	46	54.76
Forbs & Succulents																																																					
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																				
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Syalmbrium altissimum																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																				
Agropyron smithii																																																				
Agropyron spicatum														1																																					0	0	0.00
Agropyron cristatum																																										1									2	4	4.76
Bromus tectorum			1	1							1									1			1					1					1	1	1	1	1											1	12	24	28.57
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides		1																																																1	2	2.38
Sitanion hystrix																																																		0	0	0.00
Stipa comata																													1			1	1	1																4	8	9.52
Total Grass Cover	0	1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	19	38	45.24
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	42	84	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																			
Litter											1										1	1								1	1							1											6	12	
Rock																																																		0	0	
Bare Ground					1								1																																					2	4	
Total Physical Features	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8	16	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date:
Area: 7
Transect: 9
UTM: 555420/ 4368160
Heading: 28

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatiove Cover
Shrubs																																																					
Atriplex canescens	1																	1	1								1																				1	1	1		7	14	15.91
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata		1	1	1	1	1									1	1	1			1	1							1		1																					12	24	27.27
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																							1	1	1									1	4	8	9.09
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																													1																						1	2	2.27
Total Shrubs Cover	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	24	48	54.55
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																								1																											1	2	2.27
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.27
Grasses																																																						
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																							1		1	1					1		1																		5	10	11.36
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum							1				1	1	1	1								1																				1	1	1	1	1					11	22	25.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																					1	1													2	4	4.55
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																		1																	1	2	2.27
Total Grass Cover	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	1	0	1	1	0	0	1	1	0	0	0	1	1	1	1	1	0	0	0	0	19	38	43.18
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44	88	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter								1																								1			1	1															4	8	
Rock									1																																										1	2	
Bare Ground										1																																									1	2	
Total Physical Features	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: 7/3/2004 | **Area: 7** | **Transect: 10** | **UTM: 555467/4368124** | **Heading: 237**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1	1	1	1																	1	1							1				1	1																11	22	27.50
Atriplex confertifolia						1					1			1	1														1		1	1				1	1	1	1	1	1					1			1	16	32	40.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	1	1	1	1	1	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	27	54	67.50
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syisimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum							1					1	1			1		1	1																																	7	14	17.50
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																				1	1						1	1								1																5	10	12.50
Elymus salinus																																																			0	0	0.00
Elymus cinereus																								1																												1	2	2.50
Elymus gigantieous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1	0	1	1	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	13	26	32.50
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	40	80	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																	1																																		1	2	4	
Rock																																																			0	0	
Bare Ground								1	1	1															1	1																				1	1	1					8	16	
Total Physical Features	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	10	20	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 11** | **UTM: 555428/ 4368096** | **Heading: 50**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1	1					1	1							1	1	1					1	1	1	1																						1	12	24	30.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata						1	1	1	1								1							1					1	1											1	1									10	20	25.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																	1	1	2	2.50
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	23	46	57.50
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1	1											1																																							3	6	7.50
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum												1				1					1	1														1	1	1	1	1			1	1	1						14	28	35.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	1	1	0	0	17	34	42.50
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	40	80	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter													1	1										1						1																	1						5	10	
Rock																																																				0	0	
Bare Ground			1																													1	1	1										1					5	10	
Total Physical Features	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	10	20	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 12** | **UTM: 555442/ 4368100** | **Heading: 159**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																										1	1	1	1	1	1	1	1																1	1		10	20	23.81
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata			1					1	1	1	1														1												1													1	8	16	19.05
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae		1																																																	1	2	2.38
Total Shrubs Cover	0	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	19	38	45.24
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri	1																																																		0	0	0.00
Sphaeralcia coccinea																																																			1	2	2.38
Syskimbrium altissimum																																																			0	0	0.00
Total Forb Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.38
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum				1			1										1	1			1														1																6	12	14.29
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum												1	1	1	1	1						1	1	1										1		1		1	1				1	1	1	1				16	32	38.10
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	1	0	0	1	0	0	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0	0	1	1	1	1	0	0	0	22	44	52.38
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																				1																																	3	6	
Rock																																																			0	0	
Bare Ground					1	1													1																																5	10	
Total Physical Features	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	8	16	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 13** | **UTM: 555455/ 4368105** | **Heading: 302**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																					1						1											1	1										4	8	8.70
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata									1	1	1	1	1							1						1											1	1	1										10	20	21.74
Chrysothamnus nauseosus																							1																											0	0	0.00
Chrysothamnus viscidiflorus																																								1										2	4	4.35
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																											1								1	2	2.17
Total Shrubs Cover	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	0	1	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	17	34	36.96
Forbs & Succulents																																																						
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea														1																																				1	2	2.17
Sysimbrium altissimum																																	1																		1	2	2.17
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4.35
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																						1										1		1																	4	8	8.70
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum	1	1	1	1	1	1	1											1	1					1	1			1	1	1	1													1	1		1		1	1	20	40	43.48
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																									1	1						1			3	6	6.52
Total Grass Cover	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	1	0	0	1	1	1	1	1	0	1	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	27	54	58.70
Trees																																																					
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	46	92	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter																																																			0	0	
Rock														1																																						1	2	
Bare Ground								1								1	1																																		3	6	
Total Physical Features	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 14** | **UTM: 555410/ 4368109** | **Heading: 255**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens				1																		1	1	1																												8	16	20.00
Atriplex confertifolia																																									1	1	1						.1				
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata						1	1	1	1	1	1	1	1	1	1			1	1	1	1				1						1																			0	0	0.00
Chrysothamnus nauseosus																																						1	1	1	1								1		21	42	52.50
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana					1																																													0	0	0.00
Ceratoides lanata																																																		1	2	2.50
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																										1																									0	0	0.00
Total Shrubs Cover	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	1	1	31	62	77.50
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea	1		1																													1																	0	0	0.00
Sysimbrium altissimum																																																		3	6	7.50
Total Forb Cover	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7.50
Grasses																																																					
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum																																																		0	0	0.00
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum		1														1	1																			1	1									1				6	12	15.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	6	12	15.00
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	40	80	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter																														1			1																2	4	
Rock																																																		0	0	
Bare Ground																										1	1	1						1	1										1	1	1			8	16	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	10	20	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 7** | **Transect: 15** | **UTM: 555422/ 4368110** | **Heading: 136**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1	1	1																																													
Atriplex confertifolia																														1	1							1	1	1	1									9	18	20.45
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata									1	1	1						1	1	1	1	1						1	1	1			1	1	1								1	1	1	1				1	1	20	40	45.45
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	29	58	65.91
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syambrium atissimum																																			1	1															2	4	4.55
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4.55
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																1									1																											2	4	4.55
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum			1	1	1																	1	1	1													1									1	1				9	18	20.45
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides	1	1																																																	2	4	4.55
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	13	26	29.55
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44	88	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																			1																1	2	
Rock																																																			0	0	
Bare Ground												1	1	1	1										1																											5	10	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6	12	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 11** | **Transect: 1** | **UTM: 554961/ 4367523** | **Heading: 10**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																	1	1		1	1														4	8	8.16
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																														1																					0	0	0.00
Chrysothamnus nauseosus				1	1																																														1	2	2.04
Chrysothamnus viscidiflorus		1	1								1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1			1												1	1	1	1	1				2	4	4.08
Cowania mexicana																																																			25	50	51.02
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae	1																																																			1	2	2.04
Total Shrubs Cover	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	33	66	67.35
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																		1	1	2	2.04
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Grindelia squarrosa						1																																													0	0	0.00
Total Forb Cover	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2.04
Grasses																																																						
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum							1	1	1	1										1	1														1																	11	22	22.45
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum																															1						1					1								3	6	6.12
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	1	1	0	0	0	0	0	1	1	0	14	28	28.57
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	49	98	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground																																																		1	1	2	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 11** | **Transect: 2** | **UTM: 554952/ 4367588** | **Heading: 215**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																			
Atriplex canescens					1	1			1				1		1						1	1	1	1	1	1								1								1									13	26	40.63
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata							1	1				1		1																	1	1	1								1								1	9	18	28.13
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																	1	1	2	3.13
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	23	46	71.88
Forbs & Succulents																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Syembrium alliaceum																																																				
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum											1																1				1																			3	6	9.38
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum				1						1																																									2	4	6.25
Elymus salinus																																																			2	4	6.25
Elymus cinereus																																																			2	4	6.25
Elymus gigenteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	9	18	28.13
Trees																																																				
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	1	1	32	64	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																												1																								1	2	
Rock																																																			1	2	
Bare Ground	1	1	1													1	1	1	1	1										1				1																2	4	
																																					1	1	1	1										14	28	
Total Physical Features	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	18	36	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 11** | **Transect: 3** | **UTM: 554933/ 4367549** | **Heading: 99**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1	1																									1							1	1								1	1							7	14	17.50
Atriplex confertifolia																																																				0	0	0.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata																																																			1	1	2	2.50
Chrysothamnus nauseosus																																																				0	0	0.00
Chrysothamnus viscidiflorus																																																				0	0	0.00
Cowania mexicana																																																				0	0	0.00
Ceratoides lanata																																			1																	1	2	2.50
Ephedra viridis																																																				0	0	0.00
Sarcobatus vermiculatus																																																				0	0	0.00
Gutierrezia sarothrae																																																				0	0	0.00
Total Shrubs Cover	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	9	18	22.50
Forbs & Succulents																																																					0	0	0.00
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Syambrium alliasinum																																																						
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum	1			1	1	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1			1			1	1	1					1	1	1	1							1	1			0	0	0.00
Agropyron cristatum																																																					28	56	70.00
Bromus tectorum																														1				1				1													0	0	0.00
Elymus salinus																																																				3	6	7.50
Elymus cinereus																																																				0	0	0.00
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Stanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	1	1	0	31	62	77.50
Trees																																																					
Juniper																																																					
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	40	80	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																						
Litter																																																				0	0	
Rock															1	1	1																																				3	6	
Bare Ground													1	1												1	1																								1	1	1			7	14	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	10	20	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																						

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 11** | **Transect: 4** | **UTM: 554935/ 4367540** | **Heading: 265**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens			1	1	1						1	1	1	1	1												1																								9	18	27.27
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																		1	1	2	3.03
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																											1																								1	2	3.03
Cowania mexicana																1																																			1	2	3.03
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12	24	36.36
Forbs & Succulents																																																						
Machaeranthera canescens								1																																												0	0	0.00
Medicago sativa																																																				1	2	3.03
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																										1																										0	0	0.00
Sphaeralcia coccinea																																																			2	4	6.06
Syembrium alliaceum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	6	9.09
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1	1				1			1	1												1							1	1							1	1	1		1			1	1		1	1	1		17	34	51.52
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			1	2	3.03
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	0	1	0	0	1	1	1	1	1	1	0	18	36	54.55
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	33	66	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																							1										1																			2	4	
Rock																																																				0	0	
Bare Ground							1										1	1	1	1	1			1	1						1	1		1	1	1								1	1					15	30	
Total Physical Features	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	17	34	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: | **Area: 11** | **Transect: 5** | **UTM: 554888/ 4367484** | **Heading: 124**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens								1	1	1	1	1													1	1				1	1											1	1									11	22	27.50
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			2	4	5.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Cerstoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	13	26	32.50
Forbs & Succulents																																																				0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa		1																																									1								2	4	5.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																						1																															1	2	2.50
Sysimbrium altissimum																																																				
Total Forb Cover	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	6	7.50
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1						1					1							1	1	1		1	1				1	1				1	1	1	1	1					1				1				17	34	42.50
Agropyron cristatum																											1																									1	2	2.50
Bromus tectorum																															1						1	1	1						1					5	10	12.50
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigenteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			1	2	2.50
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	1	1	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	24	48	60.00
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	40	80	100.00
Cryptobiotic																																																					
Physical Features																																																			0	0	
Litter																																																				
Rock																																																			0	0	
Bare Ground			1	1	1	1							1	1	1	1	1																																		0	0	
																																																		1	10	20
Total Physical Features	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	20	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 11** | **Transect: 6** | **UTM: 554871/ 4367437** | **Heading: 216**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																				
Atriplex canescens						1	1																1	1																											4	8	11.11
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																									1																											1	2	2.78
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	13.89
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																		1		1	2	2.78
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Symbrium allissimum																																																			0	0	0.00
Phacelia crenulata																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	2	2.78
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	4	5.56
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum	1		1	1	1			1	1	1	1	1	1	1	1	1	1			1	1	1				1	1					1	1	1	1						1	1		1	1			1		28	56	77.78
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			1	2	2.78
Elymus gigantecus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0	1	0	0	1	1	0	1	1	0	0	1	0	29	58	80.56
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	1	0	0	1	1	1	1	1	0	1	1	0	36	72	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground		1																1	1									1	1	1	1					1	1	1		1	1					1			1	14	28	
Total Physical Features	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	0	1	1	0	0	0	0	0	1	0	0	1	14	28	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 11** | **Transect: 7** | **UTM: 554836/ 4367449** | **Heading: 230**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																				
Atriplex canescens												1	1								1	1	1	1						1	1	1										1									10	20	21.74
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																											1	1							2	4	4.35
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																									1																												1	2	2.17
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	13	26	28.26
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			1	1	2.17
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2.17
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum	1	1	1	1	1		1	1	1						1	1	1	1	1	1						1	1	1	1	1				1	1	1						1				1	1	1	1	1	28	56	60.87
Agropyron trichatum																																																				0	0	0.00
Bromus tectorum						1				1				1																																						3	6	6.52
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																				0	0	0.00
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides											1																																									0	0	0.00
Sitanion hystrix																																																				1	2	2.17
Stipa comata																																																				0	0	0.00
Total Grass Cover	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	1	0	0	0	1	1	1	1	1	0	32	64	69.57
Trees																																																					
Juniper																																																					
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	46	92	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																																				0	0	
Rock																																																				0	0	
Bare Ground																																																				4	8	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4	8	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 11** | **Transect: 8** | **UTM: 554812/ 4367396** | **Heading: 70**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																			
Atriplex canescens													1	1													1	1	1			1	1				1	1						1	1							11	22	25.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																														1	1			1	1																1	1			1	7	14	15.91
Chrysothamnus nauseosus																																																				0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana	1																																																		1	2	2.27
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0	1	1	1	1	0	0	1	19	38	43.18
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																				1																1	2	2.27
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syalmbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2.27
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum		1	1			1	1												1	1	1																																7	14	15.91
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum								1	1	1	1	1			1	1	1	1				1	1	1	1	1														1	1			1								17	34	38.64
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																				0	0	0.00
Elymus gigenteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	0	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	24	48	54.55
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	44	88	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																																				0	0	
Rock				1																																															1	2	
Bare Ground					1																																												1	1		5	10	
Total Physical Features	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	6	12	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date:
Area: 11
Transect: 9
UTM: 554551/ 4367249
Heading: 32

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens			1	1	1	1					1	1	1											1									1	1	1																11	22	23.91
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata														1	1	1							1																												4	8	8.70
Chrysothamnus nauseosus		1																																																	1	2	2.17
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	32	34.78
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																	1										1	1								1															4	8	8.70
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum	1						1	1	1	1										1	1	1			1	1			1	1	1	1						1	1	1	1	1	1	1	1	1	1	1		1	28	52	56.52
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	30	60	65.22
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	46	92	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																			1																														1		2	4	
Rock																																																			0	0	
Bare Ground																		1																			1														2	4	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	4	8	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: | **Area: 11** | **Transect: 10** | **UTM: 554568/ 4367304** | **Heading: 68**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens									1	1	1	1	1	1									1	1						1	1	1																			11	22	29.73
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Cerstoides lanata	1																																																		1	2	2.70
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	32.43
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syambrium allissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum		1	1	1	1										1	1		1	1	1									1				1	1	1							1					1	1				17	34	45.95
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum						1	1	1																			1	1																1	1							7	14	18.92
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			1	2	2.70
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	25	50	67.57
Trees																																																				
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	37	74	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																					1	1																														4	8	
Bare Ground																									1	1										1	1	1	1										1	1	1	9	18	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	13	26	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date:
Area: 11
Transect: 11
UTM: 554620/ 4367300
Heading: 10

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens					1	1	1	1																													1	1	1	1	1							1			10	20	21.74
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	0	0	10	20	21.74
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																							1	1	1	1					1	1	1	1								1	1	1	1				1		13	26	28.26
Agropyron cristatum													1		1																															1					3	6	6.52
Bromus tectorum	1	1	1	1							1	1				1					1	1						1	1						1	1											1			1	15	30	32.61
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides									1	1				1						1							1																								5	10	10.87
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	1	1	36	72	78.26
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	46	92	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																	1	1																																	2	4	
Bare Ground																			1											1																					2	4	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date:	Area: 11						Transect: 12								UTM: 554667/ 4367332																		Heading: 180																					Relative
Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Vegetatove Cover
Shrubs																																																					
Atriplex canescens																					1	1								1	1	1	1	1							1	1						1	1	1	12	24	28.57
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	12	24	28.57
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Meliotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum			1	1	1					1	1	1				1	1																													1	1				10	20	23.81
Agropyron cristatum																							1						1						1	1	1			1											6	12	14.29
Bromus tectorum																		1	1	1				1	1													1						1	1						8	16	19.05
Elymus salinus																																																			0	0	0.00
Elymus cinereus																											1	1															1								3	6	7.14
Elymus giganteous																										1																									1	2	2.38
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides						1							1																																						2	4	4.76
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	1	0	0	1	1	1	1	1	0	0	0	30	60	71.43
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter	1								1																																										2	4	
Rock								1																																											1	2	
Bare Ground		1					1							1	1																								1												5	10	
Total Physical Features	1	1	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	8	16	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 11** | **Transect: 13** | **UTM: 554658/ 4367237** | **Heading: 217**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1	1	1				1							1	1	1	1	1										1	1												1										13	26	30.95
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																												1														1									2	4	4.76
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata							1																																												1	2	2.38
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																														1						1														2	4	4.76
Gutierrezia sarothrae						1																																													1	2	2.38
Total Shrubs Cover	1	1	1	1	0	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	19	38	45.24
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syntrichium alliesimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum									1				1	1						1	1	1	1	1								1	1																			10	20	23.81
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum										1	1	1																					1	1	1				1				1	1			1	1	1	12	24	28.57
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigantecus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides					1																																														1	2	2.38
Stanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	0	0	1	1	0	0	0	1	1	1	23	46	54.76
Trees																																																					
Juniper																																																					
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	1	42	84	100.00
Cryptobiotic																																																					
Physical Features																																																			0	0	
Litter																											1																												
Rock																																																			1	2	
Bare Ground																									1	1												1	1													0	0	
																																																			7	14	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	8	16	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: **Area: 11** **Transect: 14** **UTM: 554730/ 4367301** **Heading: 47**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetatove Cover
Shrubs																																																					
Atriplex canescens																			1	1	1	1											1	1						1											7	14	17.07
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata	1	1	1																																						1										4	8	8.76
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																										1									1	2	2.44
Total Shrubs Cover	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	12	24	29.27
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa				1						1	1																																								3	6	7.32
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium allissimum																																																					
Total Forb Cover	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7.32
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum					1	1	1	1	1			1	1			1								1	1	1												1	1					1	1						15	30	36.59
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																	1						1					1	1	1	1	1											1			1			1	1	11	22	26.83
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	1	1	1	1	1	0	0	1	1	0	0	1	1	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	0	1	1	26	52	63.41
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	41	82	100.00
Cryptobiotic														1				1																																	2	4	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground															1												1								1	1	1										1	1			7	14	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	7	14	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 11** | **Transect: 15** | **UTM: 554775/ 4367345** | **Heading: 06**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1												1	1					1															1																	6	12	18.18
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata			1																1																																	2	4	6.06
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	16	24.24
Forbs & Succulents																																																				0	0	0.00
Grindelia squarrosa																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syntrichium alissimum																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum				1	1	1				1	1	1	1					1					1	1					1	1	1	1				1	1	1	1	1	1				1	1			1	23	46	69.70
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum																					1	1																														2	4	6.06
Elymus salinus																																																			0	0	0.00
Elymus chinensis																																																			0	0	0.00
Elymus gigantseus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	0	0	1	25	50	75.76
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	0	1	1	0	0	1	33	66	100.00
Cryptobiotic																																																					
Physical Features																																																			0	0	
Litter							1																					1																										
Rock																																																				2	4	
Bare Ground								1	1							1	1								1	1	1						1	1																	0	0	
Total Physical Features	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	0	15	30	
																																																			17	34	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 1** | **UTM: 553707/ 4367067** | **Heading: 140**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1	1				1	1				1			1	1	1						1	1	1			1	1																									
Atriplex confertifolia																																																			14	28	36.84
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata													1	1						1	1	1								1																					0	0	0.00
Chrysothamnus nauseosus																																																			6	12	15.79
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus									1	1																																										0	0	0.00
Gutierrezia sarothrae																															1	1																					2	4	5.26
Total Shrubs Cover	1	1	1	0	0	0	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	29	58	76.32
Forbs & Succulents																																																					
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																				
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																										1																										1	2	2.63
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum				1	1	1				1									1								1					1																		8	16	21.05
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteus																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	9	18	23.68
Trees																																																				
Juniper																																																				0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	38	76	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																				0	0	
Rock																																												1								1	2	
Bare Ground																		1																	1	1	1	1	1	1	1	1						1	1		11	22	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	12	24	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 2** | **UTM: 553769/ 4367022** | **Heading: 52**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	38	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens											1						1																																			1	1	10	10	15.15
Atriplex confertifolia										1																							1	1																	5	10	15.15
Artemisia nova																																																				1	2	3.03
Artemisia tridentata tridentata								1	1	1			1	1																																							0	0	0.00
Chrysothamnus nauseosus																																	1																			7	14	21.21
Chrysothamnus viscidiflorus																																																				1	2	3.03
Cowania mexicana																																																				0	0	0.00
Ceratoides lanata																																																				0	0	0.00
Ephedra viridis																																																				0	0	0.00
Sarcobatus vermiculatus															1																																						0	0	0.00
Gutierrezia sarothrae																																																				1	2	3.03
Total Shrubs Cover	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	15	30	45.45
Forbs & Succulents																																																						
Machaeranthera canescens																																																				0	0	0.00
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Syambrium altissimum																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum	1	1	1	1																				1	1																												0	0	0.00
Agropyron cristatum																														1	1	1				1	1	1							1	1		1			15	30	45.45
Bromus tectorum																1		1					1																														0	0	0.00
Elymus salinus																																																				3	6	9.09
Elymus cinereus																																																				0	0	0.00
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	1	0	0	18	36	54.55
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	33	66	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																						
Litter					1															1																																	2	4	
Rock																																																				0	0	
Bare Ground					1		1												1		1	1					1	1	1	1																					16	30	
Total Physical Features	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	17	34	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 3** | **UTM: 553775/ 4366984** | **Heading: 27**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1	1				1	1	1							1	1						1	1	1	1	1																									17	34	43.59
Atriplex confertifolia																																			1	1	1	1	1													0	0	0.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata				1	1	1				1	1																																								0	0	0.00
Chrysothamnus nauseosus																																																			6	12	15.38
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																						1																														0	0	0.00
Gutierrezia sarothrae																																																			1	2	2.56
Total Shrubs Cover	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	25	50	64.10
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum	1											1		1	1						1	1							1	1			1	1	1							1									0	0	0.00
Elymus salinus																																																			14	28	35.90
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	14	28	35.90
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	39	78	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter													1					1																																			2	4	
Rock																			1																																		1	2	
Bare Ground																														1	1																					8	16	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	11	22	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 4** | **UTM: 553726/ 4366986** | **Heading: 160**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																					
Atriplex canescens									1							1	1	1																																		4	8	11.76
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata		1						1				1	1	1	1				1	1																																10	20	29.41
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus	1																																																		0	0	0.00
Gutierrezia sarothrae																																																			1	2	2.94
Total Shrubs Cover	1	1	0	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	30	44.12
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysmbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																						
Agropyron spicatum																												1																										0	0	0.00
Agropyron cristatum																																				1	1	1				1	1	1					1	1	8	18	26.47
Bromus tectorum							1			1	1										1	1				1	1				1																				0	0	0.00
Elymus salinus																													1	1																					8	16	23.53
Elymus cinereus																																																			2	4	5.88
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	1	1	19	38	55.88
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	1	1	1	0	0	0	1	1	34	68	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter			1																																															1	2	
Rock																																																			0	0	
Bare Ground				1	1	1																1	1	1							1	1	1							1	1	1				1	1	1			15	30	
Total Physical Features	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	0	0	16	32	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 5** | **UTM: 553703/ 4366967** | **Heading: 354**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																					
Atriplex confertifolia																																				1	1	1					1								4	8	13.33
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata									1	1													1	1	1	1	1	1	1	1																				0	0	0.00
Chrysothamnus nauseosus								1																															1	1			1								13	26	43.33
Chrysothamnus viscidiflorus																																																			1	2	3.33
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	18	36	60.00
Forbs & Succulents																																																					
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum						1		1				1										1									1	1	1										1									0	0	0.00
Agropyron cristatum																																																				8	16	26.67
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			3	6	10.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			1	2	3.33
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	12	24	40.00
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	0	0	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	0	0	30	60	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter	1	1					1						1				1																																				5	10	
Rock																																																				0	0	
Bare Ground			1	1	1									1	1	1		1	1	1	1														1	1								1						1	1	15	30	
Total Physical Features	1	1	1	1	1	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	20	40	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 6** | **UTM: 553694/ 4367024** | **Heading: 111**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens					1	1	1	1	1	1	1	1	1				1	1									1	1																							13	26	30.95
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata			1	1										1	1	1								1	1												1	1	1	1	1	1	1			1	1			16	32	38.10
Chrysothamnus nauseosus																																																1			1	2	2.38
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																	1	1	2	2.38
Sarcobatus vermiculatus																													1	1																					0	0	0.00
Gutierrezia sarothrae																																																		2	4	4.76
Total Shrubs Cover	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	33	66	78.57
Forbs & Succulents																																																						
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Sysimbrium altissimum																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum	1	1																	1	1	1	1	1	1													1														9	18	21.43
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	18	21.43
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																			0	0	
Rock																																	1																	1	2	
Bare Ground																														1	1			1	1										1	1	1				7	14	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	8	16	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

15 | 7 | 553799/4367072 | 114

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1	1	1	1		1	1							1						1																											8	16	21.62
Atriplex confertifolia													1																																						1	2	2.70
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata														1	1	1	1	1							1	1	1					1	1	1	1	1					1	1		1	1		1		18	36	48.65
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata										1																																									1	2	2.70
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae	1																																																		1	2	2.70
Total Shrubs Cover	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	1	1	0	1	0	29	58	78.38
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syntrichium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum				1	1															1			1	1														1												7	14	18.92
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			1	2	2.70
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigantieous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	8	16	21.62
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	0	37	74	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																																																		1	1	2	
Rock		1																																																	1	2	
Bare Ground			1																		1	1							1	1	1	1							1	1	1						1			11	22	
Total Physical Features	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	1	13	26	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 8** | **UTM: 553719/ 4366978** | **Heading: 186**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																																			0	0	0.00
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																			1																2	4	6.06
Artemisia tridentata tridentata						1	1									1	1									1				1	1	1	1			1		1											11	22	33.33
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	13	26	39.39
Forbs & Succulents																																																						
Grindelia squarrosa																																																				0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum					1										1							1	1		1		1	1																								7	14	21.21
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			8	16	24.24
Elymus salinus																																		1																0	0	0.00
Elymus cinereus																																																			1	2	3.03
Elymus giganteous								1																																										1	2	3.03
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			3	6	9.09
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	20	40	60.61
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	33	66	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter		1																											1										1											3	6	
Rock																																																			0	0	
Bare Ground	1		1	1					1	1	1	1	1	1				1	1	1	1			1																											14	28	
Total Physical Features	1	1	1	1	0	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	17	34	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 9** | **UTM: 553801/ 4367037** | **Heading: 92**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																		1						1						1			1	1			1	1	1	1										14	28	35.90
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																			1							1		1						3	6	7.69
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	1	1	0	17	34	43.59
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum						1			1	1	1	1		1	1	1	1		1		1	1			1	1	1	1	1		1																				16	36	46.15
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum													1																																							3	6	7.69
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii							1																																												1	2	2.56
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	22	44	56.41
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	39	78	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter							1																																												1	2	
Rock																																																			0	0	
Bare Ground	1	1	1	1	1															1			1								1					1												1			10	20	
Total Physical Features	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	11	22	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 10** | **UTM: 553836/ 4366988** | **Heading: 341**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1	1		1	1	1	1	1							1	1	1	1	1	1							1	1													1								19	38	52.78
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1						1	1	1															1	1								1	1	1	1	1										11	22	30.56
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	0	30	60	83.33
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syselmbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum																																																			0	0	0.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																						1	1													1															0	0	0.00
Elymus salinus																																																			6	12	16.67
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	1	6	12	16.67
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	36	72	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter													1											1	1					1																	1					5	10	
Rock																																																				0	0	
Bare Ground	1													1	1											1						1	1	1	1									1							9	18	
Total Physical Features	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	14	28	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 11** | **UTM: 553917/ 4367074** | **Heading: 12**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																1	1																	2	4	6.25
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																	1									1					1									1											4	8	12.50
Chrysothamnus nauseosus																																																	1	1	2	3.13
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	7	14	21.88
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1	1	1	1							1	1	1	1	1				1				1	1	1				1	1							1				1	1	1	1			1	1			22	44	68.75
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																		1															1																1	3	6	9.38
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	1	1	1	1	0	0	1	1	1	0	25	50	78.13
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	0	0	1	0	0	1	1	1	1	1	0	0	1	1	1	1	32	64	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																											1	1							1	1																4	8	
Rock																																																				0	0	
Bare Ground					1	1	1	1	1	1						1				1	1	1																	1	1											14	28	
Total Physical Features	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	18	36	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 12** | **UTM: 553929/ 4367116** | **Heading: 82**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																														1	1			2	4	6.06
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																1	1																	1	1															6	12	18.18
Chrysothamnus nauseosus																																												1	1						0	0	0.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus											1																																							0	0	0.00
Gutierrezia sarothrae																																	1	1															3	6	9.09
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	12	24	36.36
Forbs & Succulents																																																					
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																		1																																	1	2	3.03
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Sysimbrium altissimum																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3.03
Grasses																																																					
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum			1	1	1	1	1	1	1	1				1	1					1	1	1	1						1	1	1					1													1	19	38	57.58
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																			1																															1	2	3.03
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	0	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	20	40	60.61
Trees																																																					
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	33	66	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter	1																																																		1	2	
Rock												1	1																																						2	4	
Bare Ground		1																						1	1	1	1	1	1								1	1	1	1	1	1	1							14	28	
Total Physical Features	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	17	34	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 13** | **UTM: 553962/ 4367102** | **Heading: 288**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1	1												1						1																											6	12	15.00
Atriplex confertifolia																																								1			1								0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																																						1														4	8	10.00
Chrysothamnus viscidiflorus																																1				1															2	4	5.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																		1																																		0	0	0.00
Gutierrezia sarothrae																							1	1					1	1																						1	2	2.50
Total Shrubs Cover	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	1	1	0	1	0	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	0	17	34	42.50
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum		1	1					1	1	1	1		1	1	1	1	1																1	1		1	1													17	34	42.50
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum				1	1																																														6	12	15.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	1	1	1	0	0	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	23	46	57.50
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	40	80	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter												1								1																				1												3	6	
Rock																					1																																1	2	
Bare Ground	1																					1				1	1	1			1																					6	12	
Total Physical Features	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 14** | **UTM: 554005/ 4367117** | **Heading: 183**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens									1	1						1																																						
Atriplex confertifolia																																													1	1	1	1			7	14	20.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata															1									1																												0	0	0.00
Chrysothamnus nauseosus																																								1											3	6	8.57
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	0	10	20	28.57
Forbs & Succulents																																																					
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum		1	1		1	1	1	1					1	1			1	1				1	1		1	1	1						1	1	1	1	1	1	1				1					1		24	48	68.57
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigantecus	1																																																		1	2	2.86
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	0	1	1	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	1	1	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	1	0	25	50	71.43
Trees																																																				
Juniper																																																				0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	35	70	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Liter																			1		1								1		1	1																				5	10	
Rock																																																			0	0	
Bare Ground				1							1	1								1								1				1												1	1	1					1	10	20	
Total Physical Features	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	15	30	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 15** | **Transect: 15** | **UTM: 553966/ 4367085** | **Heading: 65**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1	1																																												2	4	6.67
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																1						1								1																				0	0	0.00
Chrysothamnus nauseosus																																1															1	1	5	10	16.67
Chrysothamnus viscidiflorus																																																		1	2	3.33
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	8	18	26.67
Forbs & Succulents																																																					
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																				
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Syalmbrium allissimum																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																				
Agropyron smithii																																																				
Agropyron spicatum	1	1	1					1	1	1					1					1	1		1	1	1				1	1			1	1	1									1	1	1			1	0	0	0.00
Agropyron cristatum																																																			21	42	70.00
Bromus tectorum																																																		0	0	0.00
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																1																		1	2	3.33
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	1	1	1	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	1	0	1	1	1	0	0	0	1	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	1	22	44	73.33
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	1	1	1	1	1	0	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	30	60	100.00
Cryptobiotic																																																				
Physical Features																																																		0	0	
Litter																	1										1																								3	6	
Rock																																																		0	0	
Bare Ground				1	1					1	1	1	1					1	1								1	1									1	1	1	1		1	1	1						17	34	
Total Physical Features	0	0	0	1	1	0	0	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	20	40	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 1** | **UTM: 5554330/ 4366942** | **Heading: 180**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens									1										1	1																																	4	8	10.00
Atriplex confertifolia												1																							1																	2	4	5.00
Artemisia nova																													1																						0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																			1								1	1							4	8	10.00
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																				1															1	2	2.50
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	1	11	22	27.50
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																	1																																			0	0	0.00
Melilotus officinalis																																																			1	2	2.50
Penstemon palmeri																						1																														0	0	0.00
Sphaeralcia coccinea																																																			1	2	2.50
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1	1	1	1	1	1	1			1	1			1		1					1			1	1				1	1						1	1								1	1	1	1		22	44	55.00
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																							1																				1	1							3	6	7.50
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																1		1																2	4	5.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	1	1	1	1	1	0	0	1	1	0	0	1	0	1	0	0	0	0	1	0	1	1	1	0	0	0	0	1	1	1	0	1	0	0	0	1	1	0	1	1	0	0	0	1	1	1	1	0	27	54	67.50
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	40	80	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																	1																		1	2	
Rock																																																			0	0	
Bare Ground								1					1		1				1							1	1	1														1			1						9	18	
Total Physical Features	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	10	20	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 2** | **UTM: 554281/ 4366858** | **Heading: 244**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																	1	1	1																3	6	8.57
Atriplex confertifolia															1							1																															3	6	8.57
Artemisia nova																																																	1				3	6	8.57
Artemisia tridentata tridentata					1																									1																						0	0	0.00
Chrysothamnus nauseosus										1	1																									1	1															2	4	5.71
Chrysothamnus viscidiflorus																																																			4	8	11.43
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae						1																																1												2	4	5.71
Total Shrubs Cover	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	14	28	40.00
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																							1												1	2	2.86
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Symbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	2.86
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum	1	1	1									1					1						1					1			1	1								1				1	1	1				1	1	15	30	42.86
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum							1									1		1			1								1																								5	10	14.29
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																				0	0	0.00
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	1	1	1	0	0	0	1	0	0	0	0	1	0	0	0	1	1	1	0	0	1	0	1	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	1	1	20	40	57.14
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	1	1	1	0	0	1	1	1	0	0	1	1	1	1	0	0	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	1	1	1	35	70	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																				1																																		1	2	
Rock																																																				2	4	
Bare Ground				1				1	1				1	1					1					1	1	1		1																					1				12	24	
Total Physical Features	0	0	0	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	15	30	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: | **Area: 16** | **Transect: 3** | **UTM: 554209/ 4366886** | **Heading: 10**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1					1		1	1	1	1	1	1																1																						9	18	21.95
Atriplex confertifolia																				1																															1	2	2.44
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata				1	1																																													7	14	17.07
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	0	0	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	17	34	41.46
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																	1																	1	2	2.44
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	2.44
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum																			1			1		1	1					1	1			1						1	1			1							10	20	24.39
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum														1	1						1	1					1	1		1					1	1	1	1													13	26	31.71
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0	1	1	23	46	56.10
Trees																																																				
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	41	82	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																	1																	1	2	
Rock																																																			0	0	
Bare Ground		1	1				1									1	1	1						1																			1								8	16	
Total Physical Features	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	9	18	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 4** | **UTM: 554260/ 4366968** | **Heading: 307**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1																																																	4	8	10.81
Atriplex confertifolia																																		1																	0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata								1								1	1		1	1	1				1	1																									11	22	29.73
Chrysothamnus nauseosus																																1			1			1	1											1	2	2.70
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	1	1	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0	0	16	32	43.24
Forbs & Succulents																																																						
Machaeranthera canescens																																																			0	0	0.00
Medicago sativa																		1																1																	1	2	2.70
Melilotus officinalis																																																			1	2	2.70
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Syembrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5.41
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum			1				1				1				1																																					8	16	21.62
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum								1		1														1			1				1	1																				11	22	29.73
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipe comata																																																			0	0	0.00
Total Grass Cover	0	0	1	0	0	0	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	1	1	1	1	1	0	1	1	19	38	51.35
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	37	74	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter													1																																							1	2	
Rock																																																				0	0	
Bare Ground				1	1	1					1		1									1	1					1	1	1						1									1						12	24	
Total Physical Features	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	13	28	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 5** | **UTM: 554185/ 4366959** | **Heading: 59**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens								1	1																																													
Atriplex confertifolia																											1								1	1	1														1	7	14	19.44
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata	1									1																																										0	0	0.00
Chrysothamnus nauseosus																									1	1															1	1	1	1	1							9	18	25.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	1	16	32	44.44
Forbs & Succulents																																																						
Grindelia squarrosa																																																				0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Syssimbrium altissimum																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum													1		1	1	1			1	1			1						1				1				1														0	0	0.00
Agropyron cristatum																															1																				12	24	33.33
Bromus tectorum										1	1							1	1													1		1				1													1	2	2.78
Elymus salinus																																																				7	14	19.44
Elymus cinereus																																																				0	0	0.00
Elymus giganteus																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	20	40	55.56
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	0	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	36	72	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter				1	1																																															2	4	
Rock		1	1	1			1							1								1	1					1	1																	1	1	1				12	24	
Bare Ground																																																				0	0	
Total Physical Features	0	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	14	28	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50	100	
Comments:																																																					

Horse Canyon Revegetation Project Tally Sheet

Date: | **Area: 16** | **Transect: 6** | **UTM: 554240/ 4366942** | **Heading: 136**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens	1	1						1	1																											1	1														8	16	24.32
Atriplex confertifolia																																																				0	0	0.00
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata										1																									1																2	4	5.41
Chrysothamnus nauseosus																																																				0	0	0.00
Chrysothamnus viscidiflorus																																																				0	0	0.00
Cowania mexicana																																																				0	0	0.00
Coralolides lanata																																																				0	0	0.00
Ephedra viridis																																																				0	0	0.00
Sarcobatus vermiculatus																																																				0	0	0.00
Gutierrezia sarothrae																																																				0	0	0.00
Total Shrubs Cover	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	11	22	29.73
Forbs & Succulents																																																						
Grindelia squarrosa aggregatuer																																																				0	0	0.00
Machaeranthera canescens																																																						
Medicago sativa																																																				0	0	0.00
Melilotus officinalis																																																				0	0	0.00
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Syslmbrium altissimum																																																				0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																						
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum														1																1	1	1								1	1	1			1	1	1				1	11	22	29.73
Agropyron cristatum																									1																													1	2	2.70
Bromus tectorum			1	1							1	1	1								1	1	1	1		1	1						1	1				1												14	28	37.84
Elymus salinus																																																				0	0	0.00
Elymus cinereus																																																				0	0	0.00
Elymus giganteous																																																				0	0	0.00
Hilaria jamesii																																																				0	0	0.00
Oryzopsis hymenoides																																																				0	0	0.00
Sitanion hystrix																																																				0	0	0.00
Stipa comata																																																				0	0	0.00
Total Grass Cover	0	0	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	0	0	0	1	26	52	70.27
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	37	74	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter					1	1	1								1	1		1	1	1																																		9	18	
Rock																	1												1	1																								4	8	
Bare Ground																																																				0	0	
Total Physical Features	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	13	26	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																						

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 7** | **UTM: 554315/ 4366926** | **Heading: 157**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																											1	1																							4	8	9.52
Atriplex confertifolia																																																		0	0	0.00
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																						1											1	2	2.38
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata	1																																																	1	2	2.38
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierreza sarothrae																																																		0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	6	12	14.29
Forbs & Succulents																																																						
Grindelia squarrosa aperistatuer																																																		0	0	0.00
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Sysimbrium altissimum																																																		0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum		1	1	1								1	1	1	1					1	1	1	1	1	1	1	1			1	1		1	1	1	1	1	1		1	1			1	1	1	1		1	1	1	32	64	76.19
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum						1	1	1																																											3	6	7.14
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides											1																																							1	2	2.38
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	1	1	0	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	0	1	1	0	0	1	1	1	1	0	1	1	1	36	72	85.71
Trees																																																					
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	42	84	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																				
Litter																																																		0	0	
Rock																																																		0	0	
Bare Ground					1				1	1						1	1	1													1																		1			8	16	
Total Physical Features	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8	16	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date:	Area: 16	Transect: 8	UTM: 554278/ 4366873	Heading: 355

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																															1	1	1																		3	6	10.71
Atriplex confertifolia																																									1			1							2	4	7.14
Artemisia nova																																																		0	0	0.00
Artemisia tridentata tridentata																																																	0	0	0.00
Chrysothamnus nauseosus	1																1	1	1	1				1	1	1													1	1											10	20	35.71
Chrysothamnus viscidiflorus																																																	0	0	0.00
Cowania mexicana																																																	0	0	0.00
Ceratoides lanata																																																	0	0	0.00
Ephedra viridis																																																	0	0	0.00
Sarcobatus vermiculatus																																																	0	0	0.00
Gutierrezia sarothrae																																																	0	0	0.00
Total Shrubs Cover	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	15	30	53.57
Forbs & Succulents																																																		0	0	0.00
Grindelia squarrosa																																																				
Machaeranthera canescens																																																		0	0	0.00
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri																																																		0	0	0.00
Sphaeralcia coccinea																																																		0	0	0.00
Sysimbrium altissimum																																																				
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum				1	1																															1	1											5	10	17.86
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum		1	1						1			1																											1											5	10	17.86
Elymus salinus																																																		0	0	0.00
Elymus cinereus								1					1	1																																				3	6	10.71
Elymus giganteous																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides																																																		0	0	0.00
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	1	1	1	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	13	26	46.43
Trees																																																				
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	0	0	1	1	0	0	1	1	1	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	0	0	1	0	0	0	0	1	0	28	56	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																			
Litter																													1	1															1						3	6	
Rock																																																		0	0	
Bare Ground					1	1			1	1					1	1					1	1	1				1	1					1	1							1	1			1	1	1		1	19	38	
Total Physical Features	0	0	0	0	0	1	1	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	1	1	0	1	1	1	1	0	1	22	44	
																																																	50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																			

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 17** | **Transect: 9** | **UTM: 554279/ 4366901** | **Heading: 325**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																												1	1						2	4	5.26
Atriplex confertifolia					1						1	1							1														1										1							1	7	14	18.42
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus																																																		0	0	0.00
Chrysothamnus viscidiflorus	1																	1														1																			3	6	7.89
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae										1																																									1	2	2.63
Total Shrubs Cover	1	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	13	26	34.21
Forbs & Succulents																																																			0	0	0.00
Grindelia squarrosa																																																					
Machaeranthera canescens																																																		1	1	2	2.63
Medicago sativa																										1																											1	2	2.63
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																					
Purple daisy																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	4	5.26
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum						1								1		1				1	1	1					1	1	1	1	1				1	1	1	1			1	1					1				16	38	47.37
Agropyron cristatum																																																				0	0	0.00
Bromus tectorum													1				1																1										1								5	10	13.16
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus gigantieous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	1	1	0	0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	1	1	1	0	1	1	1	0	0	0	1	0	1	0	0	23	46	60.53
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	0	0	0	1	1	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	38	76	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter			1	1											1																																1				4	8	
Rock																																																			0	0	
Bare Ground		1					1	1	1														1	1	1																1										8	16	
Total Physical Features	0	1	1	1	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	12	24	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect:10** | **UTM: 554281/ 4366938** | **Heading: 113**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens			1	1	1	1	1	1	1																	1																									8	16	19.05
Atriplex confertifolia																1						1					1	1																								4	8	9.52
Artemisia nova																																																				0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																														1																					2	4	4.76
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	14	28	33.33
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa										1													1	1	1																											0	0	0.00
Melilotus officinalis																																																			4	8	9.52
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Purple daisy																																																					
Total Forb Cover	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	9.52
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum		1									1	1	1	1	1						1												1	1					1	1				1	1			1	1	16	32	38.10
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																			1	1									1	1		1	1										1	1							8	16	19.05
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	0	0	1	1	24	48	57.14
Trees																																																				
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1	42	84	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																				
Litter																	1																																				1	2	
Rock																																																				0	0	
Bare Ground	1																	1																																			7	14	
Total Physical Features	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0		8	16	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 11** | **UTM: 554214/ 4366926** | **Heading: 267**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens																																1	1	1																			
Atriplex confertifolia																																																			3	6	10.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																			0	0	0.00
Chrysothamnus nauseosus																													1													1					1	1			4	8	13.33
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	7	14	23.33
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens								1																																													
Medicago sativa																																																			1	2	3.33
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri	1								1	1																				1																					0	0	0.00
Sphaeralcia coccinea																																																			4	8	13.33
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	16.67
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum		1	1	1							1	1																																								0	0	0.00
Agropyron cristatum																												1									1								1							6	16	26.67
Bromus tectorum																			1	1	1	1	1				1							1	1							1					1				10	20	33.33
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	0	0	0	1	1	0	0	0	18	36	60.00
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	0	1	1	1	1	1	1	0	0	0	1	1	0	0	1	1	1	1	0	0	30	60	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																	1							1	1	1					1																					5	10	
Rock																																																				0	0	
Bare Ground					1	1	1						1	1	1	1		1																										1	1					1	1	15	30	
Total Physical Features	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	1	20	40	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 12** | **UTM: 554211/ 4366966** | **Heading: 360**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens						1		1				1	1			1		1									1	1						1	1	1	1	1													14	28	42.42
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata							1							1												1																										6	12	18.18
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			0	0	0.00
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																																			0	0	0.00
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	1	0	20	40	60.61
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																			1																																			0	0	0.00
Melilotus officinalis																																							1													2	4	6.06
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	4	6.06
Grasses																																																					
Agropyron smithii																																																				0	0	0.00
Agropyron spicatum	1	1						1		1															1				1																							6	12	18.18
Agropyron cristatum																																																			0	0	0.00
Bromus tectorum																						1																			1											5	10	15.15
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	11	22	33.33
Trees																																																				
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	0	0	0	1	1	1	1	0	1	1	1	1	0	1	1	1	1	0	0	1	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	33	66	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																																																			0	0	
Rock																																																			0	0	
Bare Ground			1	1	1					1					1					1	1		1	1					1	1	1	1											1	1	1						1	17	34	
Total Physical Features	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	0	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	17	34	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 13** | **UTM: 554261/ 4366994** | **Heading: 86**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens														1	1	1								1																	1	1										6	12	15.79
Atriplex confertifolia																							1																												0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata																																																		0	0	0.00
Chrysothamnus nauseosus							1																																											3	6	7.89
Chrysothamnus viscidiflorus																																																		1	2	2.63
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	10	20	26.32
Forbs & Succulents																																																					
Grindelia squarrosa																																																		0	0	0.00
Machaeranthera canescens																																																				
Medicago sativa																																																		0	0	0.00
Melilotus officinalis																																																		0	0	0.00
Penstemon palmeri	1				1	1																																											0	0	0.00
Sphaeralcia coccinea																																																		3	6	7.89
Sysimbrium altissimum																																																		0	0	0.00
Total Forb Cover	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7.89
Grasses																																																				
Agropyron smithii																																																		0	0	0.00
Agropyron spicatum										1	1	1	1				1	1			1					1	1					1	1	1	1	1	1	1						1	1		1	19	38	50.00
Agropyron cristatum																																																		0	0	0.00
Bromus tectorum																						1			1														1											3	6	7.89
Elymus salinus																																																		0	0	0.00
Elymus cinereus																																																		0	0	0.00
Elymus giganteus																																																		0	0	0.00
Hilaria jamesii																																																		0	0	0.00
Oryzopsis hymenoides		1	1	1																																														3	6	7.89
Sitanion hystrix																																																		0	0	0.00
Stipa comata																																																		0	0	0.00
Total Grass Cover	0	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	1	1	0	0	1	1	0	0	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	1	25	50	65.79
Trees																																																			
Juniper																																																		0	0	0.00
Pinon																																																		0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	38	76	100.00
Cryptobiotic																																																		0	0	
Physical Features																																																			
Litter																																												1	1							2	4	
Rock																														1																				1	2	
Bare Ground								1	1										1	1							1	1	1																1	1					9	18	
Total Physical Features				0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	12	24	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																				

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 14** | **UTM: 554290/ 4366964** | **Heading: 199**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens		1	1				1	1			1	1	1					1	1				1	1	1	1																										13	26	32.50
Atriplex confertifolia																																																			0	0	0.00
Artemisia nova																																																			0	0	0.00
Artemisia tridentata tridentata														1													1								1	1							1	1	1	1	1	1			10	20	25.00
Chrysothamnus nauseosus																												1																							1	2	2.50
Chrysothamnus viscidiflorus																																																		0	0	0.00
Cowania mexicana																																																		0	0	0.00
Ceratoides lanata																																																		0	0	0.00
Ephedra viridis																																																		0	0	0.00
Sarcobatus vermiculatus																																																		0	0	0.00
Gutierrezia sarothrae																																																		0	0	0.00
Total Shrubs Cover	0	1	1	0	0	0	1	1	0	0	1	1	1	1	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0	0	24	48	60.00
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa																																																			0	0	0.00
Melilotus officinalis																																																			0	0	0.00
Penstemon palmeri																																																			0	0	0.00
Sphaeralcia coccinea																																																			0	0	0.00
Sysimbrium altissimum																																																			0	0	0.00
Total Forb Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Grasses																																																					
Agropyron smithii																																																			0	0	0.00
Agropyron spicatum	1			1		1				1						1	1												1				1								1						1	1		11	22	27.50
Agropyron cristatum					1																																													1	2	2.50
Bromus tectorum									1						1						1													1																4	8	10.00
Elymus salinus																																																			0	0	0.00
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	1	1	1	0	0	1	1	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	16	32	40.00
Trees																																																					
Juniper																																																			0	0	0.00
Pinon																																																			0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	0	40	80	100.00
Cryptobiotic																																																			0	0	
Physical Features																																																					
Litter																					1																															2	4	
Rock																																																			0	0	
Bare Ground																						1								1	1	1					1	1	1											1	6	16	
Total Physical Features	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	10	20	
																																																		50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Horse Canyon Revegatation Project Tally Sheet

Date: | **Area: 16** | **Transect: 15** | **UTM: 554301/ 4366977** | **Heading: 215**

Plant Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	Total	Percent Cover	Relative Vegetative Cover
Shrubs																																																				
Atriplex canescens									1	1	1								1	1	1						1	1	1	1											1			1	1		1				14	28	35.90
Atriplex confertifolia																																									1										3	6	7.69
Artemisia nova																																										1	1	1							0	0	0.00
Artemisia tridentata tridentata		1					1	1																																											3	6	7.69
Chrysothamnus nauseosus																																																			0	0	0.00
Chrysothamnus viscidiflorus																																																			3	6	7.69
Cowania mexicana																																																			0	0	0.00
Ceratoides lanata																																																			0	0	0.00
Ephedra viridis																																	1																	1	2	2.56
Sarcobatus vermiculatus																																																			0	0	0.00
Gutierrezia sarothrae																																																			0	0	0.00
Total Shrubs Cover	0	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	21	42	53.85
Forbs & Succulents																																																						
Grindelia squarrosa																																																			0	0	0.00
Machaeranthera canescens																																																					
Medicago sativa			1												1																				1																	0	0	0.00
Melilotus officinalis																																																				3	6	7.69
Penstemon palmeri																																																				0	0	0.00
Sphaeralcia coccinea																																																				0	0	0.00
Syssimbrium altissimum																																																				0	0	0.00
Total Forb Cover	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7.69
Grasses																																																					
Agropyron smithii																																																					
Agropyron spicatum	1											1	1					1	1				1	1		1	1				1				1						1										0	0	0.00
Agropyron cristatum																																																				12	24	30.77
Bromus tectorum																																																			0	0	0.00
Elymus salinus																																																			3	6	7.69
Elymus cinereus																																																			0	0	0.00
Elymus giganteous																																																			0	0	0.00
Hilaria jamesii																																																			0	0	0.00
Oryzopsis hymenoides																																																			0	0	0.00
Sitanion hystrix																																																			0	0	0.00
Stipa comata																																																			0	0	0.00
Total Grass Cover	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	1	1	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	15	30	38.46
Trees																																																					
Juniper																																																				0	0	0.00
Pinon																																																				0	0	0.00
Total Tree Cover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total Vegetation Cover	1	1	1	0	0	0	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	39	78	100.00
Cryptobiotic																																																				0	0	
Physical Features																																																					
Litter																																																				0	0	
Rock																																																				3	6	
Bare Ground				1	1	1								1		1								1					1																							8	16	
Total Physical Features	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	11	22	
																																																			50	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Comments:																																																					

Appendix 2

Woody Plant Density Data

Horse Canyon Revegetation Shrub Density Sheet

Date:	7/23/2004																
Area:	Reference																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	553521	553557	553547	553611	553581	553619	553545	553538	553597	553540	553505	553536	553561	553505	553460		
	4368197	4386159	4368178	4368141	4368151	4368132	4368052	4368054	4368059	4368079	4368106	4368136	4368170	4368172	4368146		
Heading:	114	283	154	338	70	138	311	106	285	316	97	2	203	250	119		
Shrubs																	
Atriplex canescens	1															1	2.904
Atriplex confertifolia																	
Atriplex corrugata																	
Atriplex cuneata																	
Artemisia nova																	
Artemisia tridentata tridentata																	
Chrysothamnus nauseosus																	
Chrysothamnus viscidiflorus																	
Ceratoides lanata			1													1	2.904
Ephedra viridis							1									1	2.904
Sarcobatus vermiculatus	10															10	29.04
Leptodactylon pungens						1				1						2	5.808
Gutierrezia sarothrae		15	19	15	71	14	1	5	4	12	56	29	10	9	3	263	763.752
Total Shrubs	11	15	20	15	71	15	2	5	4	13	56	29	10	9	3	278	807.312
Trees																	
Juniper	3	7	8	4	1	10	8	10	6	10	5	3	3	5	6	89	258.456
Pinyon		1				3	5	5	1	1						16	46.464
Total Trees	3	8	8	4	1	13	13	15	7	11	5	3	3	5	6	105	304.92
Total Woody Plants	14	23	28	19	72	28	15	20	11	24	61	32	13	14	9	383	1112.232
Plants/acre	609.84	1001.88	1219.68	827.64	3136.32	1219.68	653.4	871.2	479.16	1045.44	2657.16	1393.92	566.28	609.84	392.04		
Average Plants/acre	1112.232																
Standard Deviation	787.1623224																
Comments:																	

Horse Canyon Revegetation Shrub Density Sheet

Date:	8/7/2004																
Area:	3																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	555524	555485	555534	555494	555521	555515	555493	555437	555475	555422	555441	555481	555504	555540	555557		
	4368063	4368015	4368042	4368033	4368073	4368044	4368029	4368056	4368004	4367991	4368018	4367975	4367961	4367930	4368055		
Heading:	63	21	237	25	133	242	305	188	348	130	33	70	52	356	262		
Shrubs																	
Atriplex canescens	22	15	15	19	15	10	19	20	17	11	15	15	16	22	25	256	743.424
Atriplex confertifolia																	
Atriplex corrugata																	
Atriplex cuneata																	
Artemisia nova																	
Artemisia tridentata tridentata	23	51	16	16	16	16	3	10	5	21	10	22	22	32	17	280	813.12
Chrysothamnus nauseosus	2	8	2	1	3	3		1	5	6	2	6	1	5	2	47	136.488
Chrysothamnus viscidiflorus	5		6	2	4	1		7		1			2	3	1	32	92.928
Cowania mexicana					1						1		1			3	8.712
Ceratoides lanata																	
Ephedra viridis																	
Sarcobatus vermiculatus																	
Gutierrezia sarothrae																	
Total Shrubs	52	74	39	38	39	30	22	38	27	39	28	43	42	62	45	618	1794.672
Trees																	
Juniper																	
Pinyon																	
Total Trees																0	0
Total Woody Plants	52	74	39	38	39	30	22	38	27	39	28	43	42	62	45	618	1794.672
Plants/acre	2265.12	3223.44	1698.84	1655.28	1698.84	1306.8	958.32	1655.28	1176.12	1698.84	1219.68	1873.08	1829.52	2700.72	1960.2		
Average Plants/acre by transect	1794.672																
Standard Deviation	587.7026533																
Comments:																	

Horse Canyon Revegetation Shrub Density Sheet

Date:	8/7/2004																
Area:	6																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	555622	555556	555552	555529	555509	555521	555472	555470	555440	555418	555448	555420	555471	555544	555581		
	4368177	4368189	4368213	4368190	4368189	4368147	4368152	4368157	4368139	4368139	4368155	4368130	4368140	4368187	4368141		
Heading:	240	215	209	306	116	250	162	254	115	43	230	18	74	13	283		
Shrubs																	
Atriplex canescens	10	30	20	12	34	23	34	27	18	44	38	57	30	19	41	437	1269.048
Atriplex confertifolia																	
Atriplex corrugata																	
Atriplex cuneata																	
Artemisia nova	2	2	8	15	3	8	1						1	3	1	44	127.776
Artemisia tridentata tridentata	29	26	57	50	36	45	28	28	29	8	8	36	77	54	37	548	1591.392
Chrysothamnus nauseosus	1			1				3	1				2			8	23.232
Chrysothamnus viscidiflorus	15	2	2	1	1	3	14	5	39	2			6	1		91	264.264
Cowania mexicana																	
Ceratoides lanata			9	100	25	1		3		2		1			1	142	412.368
Ephedra viridis																	
Sarcobatus vermiculatus							13									13	37.752
Gutierrezia sarothrae	11	1	4	3		4		11		9		7	6	6		62	180.048
Total Shrubs	68	61	100	182	99	84	90	77	87	65	46	101	122	83	80	1345	3905.88
Trees																	
Juniper																	
Pinyon																	
Total Trees																0	0
Total Vegetation	68	61	100	182	99	84	90	77	87	65	46	101	122	83	80	1345	3905.88
Plants/acre	2962.08	2657.16	4356	7927.92	4312.44	3659.04	3920.4	3354.12	3789.72	2831.4	2003.76	4399.56	5314.32	3615.48	3484.8		
Average Plants/acre	3905.88																
Standard Deviation	1379.323577																
Comments:																	

yellow flower forb(cryptantha-umbel - like), curly cup gum weed, composite, unknown shrub 2, Hedysarum, globe mallow, Tumbe mustard, yellow clover, deer pellets, poa balbosa? Present

Horse Canyon Revegetation Shrub Density Sheet																	
Date:	8/6/2004																
Area:	7																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	555418	555390	555395	555369	555429	555437	555409	555449	555373	555419	555431	555414	555362	555392	555416		
	4368099	4368040	4368085	4368088	4368082	4368124	4368102	4368078	4368088	4368127	4368109	4368128	4368037	4367992	4368061		
Heading:	216	44	231	60	294	237	86	240	51	90	209	172	100	30	56		
Shrubs																	
Atriplex canescens	38	4	16	14	35	36	21	45	21	26	26	13	23	28	32	378	1097.712
Atriplex confertifolia						48										48	139.392
Atriplex corrugata																	
Atriplex cuneata																	
Artemisia nova		8	13	1	2			1			1		1			27	78.408
Artemisia tridentata tridentata	50	165	208	83	46		54	47	90	56	48	71	86	56	53	1113	3232.152
Chrysothamnus nauseosus		1	1										1			3	8.712
Chrysothamnus viscidiflorus		8	4							5	1		1		2	21	60.984
Cowania mexicana																	
Ceratoides lanata										2						2	5.808
Cowania mexicana	1						1									2	5.808
Ephedra viridis																	
Gutierrezia sarothrae		24					19		1		1	4	4	5		58	168.432
Sarcobatus vermiculatus			7													7	20.328
Total Shrubs	89	210	249	98	83	84	95	93	112	89	77	88	116	89	87	1659	4817.736
Trees																	
Juniper																	
Pinyon																	
Total Trees																0	0
Total Vegetation	89	210	249	98	83	84	95	93	112	89	77	88	116	89	87	1659	4817.736
Plants/acre	3876.84	9147.6	10846.44	4268.88	3615.48	3659.04	4138.2	4051.08	4878.72	3876.84	3354.12	3833.28	5052.96	3876.84	3789.72		
Average Plants/acre	4817.736																
Standard Deviation	2173.128277																
Comments:																	
Penstemon Palmeri, Globe mallow with wide leaf, Tumble mustard, Snakeweed present																	

Horse Canyon Revegetation Shrub Density Sheet

Date:	8/7/2004																
Area:	11, 13 & 14																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	554572	554595	554600	554544	554635	554602	554700	554772	554806	554808	554816	554831	554907	554959	554910		
	4367275	4367314	4367289	4367253	4367275	4367288	4367333	4267375	4367373	4367382	4367426	4367442	4367485	4367950	4367572		
Heading:	348	136	220	47	9	93	26	184	360	29	254	46	31	216	156		
Shrubs																	
Atriplex canescens	14	10	34	25	18	40	14	26	22	14	31	13	22	28	30	341	990.264
Atriplex confertifolia																	
Atriplex corrugata																	
Atriplex cuneata																	
Artemisia nova					1				2						4	7	20.328
Artemisia tridentata tridentata				9	17	13	12	6	14	5	9	17	2	9	9	122	354.288
Chrysothamnus nauseosus				1		1	2		1			6			1	12	34.848
Chrysothamnus viscidiflorus					1		1					1				3	8.712
Cowania mexicana																	
Ceratoides lanata	1	1	1					1			1		2		5	12	34.848
Cowania mexicana								1	1							2	5.808
Ephedra viridis															1	1	2.904
Gutierrezia sarothrae					2	3		1		1		11				18	52.272
Sarcobatus vermiculatus		1			3	8			1							13	37.752
Total Shrubs Cover	15	12	35	35	42	65	29	35	41	20	41	48	26	37	50	531	1542.024
Trees																	
Juniper																	
Pinyon																	
Total Tree Cover																0	0
Total Vegetation Cover	15	12	35	35	42	65	29	35	41	20	41	48	26	37	50	531	1542.024
Plants/acre	653.4	522.72	1524.6	1524.6	1829.52	2831.4	1263.24	1524.6	1785.96	871.2	1785.96	2090.88	1132.56	1611.72	2178		
Average Plants/acre	1542.024																
Standard Deviation	603.5401541																
Comments:																	
Cliff rose, Globe mallow, Crested wheat grass, Medicago, Yellow clover, Curly cup gum weed present																	

Horse Canyon Revegetation Shrub Density Sheet

Date:	7/23/2004																
Area:	15 & 17																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	553702	553710	553757	553796	553737	553788	553824	553827	553851	553837	553923	554012	553966	553943	553972		
	4366972	4366987	4366963	4366984	4367020	4367069	4367046	4367093	4367049	4367000	4367077	4367117	4367084	4367089	4367117		
Heading:	212	159	94	333	2	81	292	136	242	283	346	181	250	77	308		
Shrubs																	
Atriplex canescens	13	8	23	12	23	26	25	19	45	19	14	10	4	6	19	266	772.464
Atriplex confertifolia					4		2									6	17.424
Atriplex corrugata																	0
Atriplex cuneata																	0
Artemisia nova	1		2		1	1			1				1			7	20.328
Artemisia tridentata tridentata	43	18	56	39	9	41	46	7	16	19	15	9	21	3	17	359	1042.536
Chrysothamnus nauseosus	2	2	2	1		5	1				2		3	1		19	55.176
Chrysothamnus viscidiflorus													1		1	2	5.808
Cowania mexicana																	0
Ceratoides lanata	2	2	1	1		4	2	1	3	1	1	2	1		1	22	63.888
Ephedra viridis																	0
Guterezia sarothrae	1	2					1						11		7	22	63.888
Sarcobatus vermiculatus	2			8	22			2	1	4	29	3				71	206.184
																	0
Total Shrubs	64	32	84	61	59	77	77	29	66	43	61	24	42	10	45	774	2247.696
																	0
Trees																	0
Juniper																	0
Pinyon																	0
																	0
Total Trees																0	0
Total Vegetation	64	32	84	61	59	77	77	29	66	43	61	24	42	10	45	774	2247.696
Plants/acre	2787.84	1393.92	3659.04	2657.16	2570.04	3354.12	3354.12	1263.24	2874.96	1873.08	2657.16	1045.44	1829.52	435.6	1960.2		
Average Plants/acre	2247.696																
Standard Deviation	940.7346528																
Comments:																	
Japanese brome, Atriplex with puple stem, Halogeton glomeratus, Salina wild rye, Tumble mustard, Erodium cicutaria, Western wheat grass, Unknown forb present																	
Yellow clover, Skeleton weed, Atriplex cuneata,																	

Horse Canyon Revegetation Shrub Density Sheet

Date:	7/22/2004																
Area:	16																
Transect:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total	Plants/acre
UTM:	554239	554243	554243	554228	554285	554284	554238	554241	554246	554195	554206	554270	554250	554300	554231		
	4366964	4366991	4366989	4367001	4366901	4366902	4366884	4366831	4366866	4366876	4366884	4366903	4366974	4366959	4366959		
Heading:	95	232	211	287	9	128	104	57	350	92	70	260	180	188	337		
Shrubs																	
Atriplex canescens	51	44	45	3	5	4	8	24	11	15	9	6	35	4	43	307	891.528
Atriplex confertifolia	1	1		1	8	8	2	13	4	6	12	5	1	21		83	241.032
Atriplex corrugata																	
Atriplex cuneata																	
Artemisia nova										2					1	3	8.712
Artemisia tridentata tridentata	34	66	46	12	3		16	12	16	13	12		34	5	66	335	972.84
Chrysothamnus nauseosus				1	16	26	7	17	11	10	8	19		9		124	360.096
Chrysothamnus viscidiflorus							1	1								2	5.808
Cowania mexicana																	
Ceratoides lanata				1	2			1		1	3			1		9	26.136
Ephedra viridis																	
Sarcobatus vermiculatus																	
Guterezia sarothrae					1	1	2	15	2		1	1				23	66.792
																	0
Total Shrubs	86	111	91	18	35	39	36	83	44	47	45	31	70	40	110	886	2572.944
Trees																	
Juniper																	
Pinyon																	
Total Trees																0	0
Total Vegetation	86	111	91	18	35	39	36	83	44	47	45	31	70	40	110	886	2572.944
Plants/acre	3746.16	4835.16	3963.96	784.08	1524.6	1698.84	1568.16	3615.48	1916.64	2047.32	1960.2	1350.36	3049.2	1742.4	4791.6		
Average Plants/acre	2572.944																
Standard Deviation	1309.438593																
Comments:																	

Appendix 3

Diversity and Similarity Data

Appendix 3. Similarity comparisons			
Unique Species Reference Area (A)	Unique Species Area 3 (B)	Common Species (C)	Similarity Index C/(A+B-C)*100
Sarcobatus vermiculatus	Artemisia nova	Gutierrzia sarothrae	3/(12+17-3)*100 = **11.54**
Euphorbia fendleri	Artemisia tridentata	Machaerantha canescens	
Sphaeralcia coccinea	Atriplex canescens	Bromus tectorum	
Phlox hoodii	Chrysothamnus nauseosus		
Plantago patagonica	Chrysothamnus viscidilflorus		
Opuntia compressa	Cowania mexicana		
Elymus salinus	Meliotus officinalis		
Juniperus osteosperma	Penstemon palmeri		
Pinus edulis	Grindelia squarrosa		
	Agropyron cristatum		
	Agropyron smithii		
	Agropyron spicatum		
	Elymus cinereus		
	Elymus gigantius		

Appendix 3. Similarity comparisons			
Unique Species Reference Area (A)	Unique Species Area 6 (B)	Common Species (C)	Similarity Index C/(A+B-C)*100
Euphorbia fendleri	Artemisia nova	Gutierrzia sarothrae	5/(12+23-5)*100 = **16.67**
Sphaeralcia coccinea	Artemisia tridentata	Sarcobatus vermiculatus	
Phlox hoodii	Atriplex canescens	Machaerantha canescens	
Plantago patagonica	Atriplex confertifolia	Bromus tectorum	
Opuntia compressa	Ceratoides lanata	Elymus salinus	
Juniperus osteosperma	Chrysothamnus nauseosus		
Pinus edulis	Chrysothamnus viscidilflorus		
	Penstemon palmeri		
	Sysimbrium altissimum		
	Grindelia squarrosa		
	Agropyron smithii		
	Agropyron spicatum		
	Bromus inermis		
	Elymus cinereus		
	Elymus gigantius		
	Hilaria jamesii		
	Oryzopsis hymenoides		
	Sitanion hystrix		

Appendix 3. Similarity comparisons			
Unique Species Reference Area (A)	Unique Species Area 7 (B)	Common Species (C)	Similarity Index C/(A+B-C)*100
Sarcobatus vermiculatus	Artemisia nova	Gutierrzia sarothrae	3/(12+18-3)*100 = **11.11**
Euphorbia fendleri	Artemisia tridentata	Sphaeralcia coccinea	
Sphaeralcia coccinea	Atriplex canescens	Bromus tectorum	
Phlox hoodii	Atriplex confertifolia		
Plantago patagonica	Ceratoides lanata		
Opuntia compressa	Chrysothamnus nauseosus		
Elymus salinus	Chrysothamnus viscidilflorus		
Juniperus osteosperma	Cowania mexicana		
Pinus edulis	Penstemon palmeri		
	Sysimbrium altissimum		
	Agropyron spicatum		
	Elymus cinereus		
	Oryzopsis hymenoides		
	Sitanion hystrix		
	Stipa comata		

Appendix 3. Similarity comparisons			
Unique Species Reference Area (A)	Unique Species Area 11/13/14 (B)	Common Species (C)	Similarity Index C/(A+B-C)*100
Phlox hoodii	Artemisia tridentata	Gutierrzia sarothrae	7/(12+21-7)*100 = **26.92**
Plantago patagonica	Atriplex canescens	Sarcobatus vermiculatus	
Opuntia compressa	Ceratoides lanata	Euphorbia fendleri	
Juniperus osteosperma	Chrysothamnus nauseosus	Sphaeralcia coccinea	
Pinus edulis	Chrysothamnus viscidilflorus	Machaerantha canescens	
	Cowania mexicana	Bromus tectorum	
	Medicago satvia	Elymus salinus	
	Penstemon palmeri		
	Grindelia squarrosa		
	Agropyron cristatum		
	Agropyron spicatum		
	Elymus cinereus		
	Elymus gigantius		
	Oryzopsis hymenoides		

Appendix 3. Similarity comparisons			
Unique Species Reference Area (A)	Unique Species Area 15/17 (B)	Common Species (C)	Similarity Index C/(A+B-C)*100
Euphorbia fendleri	Artemisia nova	Gutierrzia sarothrae	5/(12+16-5)*100 = **21.73**
Sphaeralcia coccinea	Artemisia tridentata	Sarcobatus vermiculatus	
Phlox hoodii	Atriplex canescens	Machaerantha canescens	
Plantago patagonica	Atriplex confertifolia	Bromus tectorum	
Opuntia compressa	Ceratoides lanata	Elymus salinus	
Juniperus osteosperma	Chrysothamnus nauseosus		
Pinus edulis	Agropyron spicatum		
	Elymus cinereus		
	Elymus gigantius		
	Hilaria jamesii		
	Oryzopsis hymenoides		

Appendix 3. Similarity comparisons			
Unique Species Reference Area (A)	Unique Species Area 16 (B)	Common Species (C)	Similarity Index C/(A+B-C)*100
Sarcobatus vermiculatus	Artemisia tridentata	Gutierrzia sarothrae	3/(12+15-3)*100 = **12.50**
Euphorbia fendleri	Atriplex canescens	Machaerantha canescens	
Sphaeralcia coccinea	Atriplex confertifolia	Bromus tectorum	
Phlox hoodii	Ceratoides lanata		
Plantago patagonica	Chrysothamnus nauseosus		
Opuntia compressa	Chrysothamnus viscidilflorus		
Elymus salinus	Medicago sativa		
Juniperus osteosperma	Penstemon palmeri		
Pinus edulis	Agropyron cristatum		
	Agropyron spicatum		
	Elymus cinereus		
	Oryzopsis hymenoides		

Appendix III-1-7

1996 Revegetation Monitoring Report
JBR

jbr
environmental consultants, inc.

8160 South Highland Drive • Sandy, Utah 84093 • (801) 943-4144 • Fax (801) 942-1852

October 11, 1996

William W. Engels
Department of Water and Power
City of Los Angeles
111 No. Hope Street, Room 1164
Los Angeles, California 90012

RE: Horse Canyon Revegetation Monitoring Report

Dear Bill:

The revegetation monitoring report for Year 5 at Horse Canyon has been completed. I have enclosed three copies for you and also mailed a copy to Chris Hansen of Earth Fax. Chris will need this information for the Phase II Bond Release.

The results of the survey indicate that while this was a dry year, the revegetation at Horse Canyon is doing well and exceeds the goals for final bond release. The total vegetative cover in the revegetated areas ranged from 47 to 55 percent, well above the 33 percent required for bond release. The shrub density ranged from 2,744 to 6,181 plants per acre which compares favorably with the bond release goal of 3,000 plants per acre. The monitoring in Year 5 also establishes that the shrubs have persisted for five years and probably should be present for Year 9 when the next monitoring is due.

The data for the reference area is also included in this report.

Sincerely,

Joseph M. Jarvis

Joseph M. Jarvis
President

cc: Chris Hansen, Earth Fax

INTERMOUNTAIN POWER AGENCY
HORSE CANYON REFERENCE AREA AND
REVEGETATION AREAS
VEGETATION STUDY

October 11, 1996

Prepared for:

Department of Water and Power
City of Los Angeles
111 North Hope Street, RM 1161
Los Angeles, CA 90012

Prepared by:

JBR Consultants Group
8160 So. Highland Dr. #A-4
Sandy, UT 84093

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LIST OF APPENDICES

HORSE CANYON REFERENCE AREA AND REVEGETATION AREAS VEGETATION STUDY

1.0 Introduction

A vegetation study was conducted by JBR Consultants Group at the Horse Canyon reclamation treatment area and the vegetation reference area in August, 1996. Reclamation of mining related disturbances was done in the fall, 1991. The reference area was established as part of the Utah Division of Oil, Gas and Mining (DOGM) permitting requirements in 1985. The purpose of the study was to quantitatively and qualitatively sample the pinyon-juniper woodland within the reference area and representative revegetated sites with respect to plant species composition, cover, and woody species density. This study was completed to fulfill the sampling requirement for year five of reclamation and to substantiate that the vegetation reclamation requirements were met for Phase II bond release.

Vegetation sampling methods were designed in accordance with the February, 1992 Revised DOGM Vegetation Information Guidelines, and with the prior vegetation study done at the reference area in 1985, 1991 and 1993. These methods are described below. Results of the study are presented as well.

Precipitation information for the Horse Canyon area was obtained from monthly records for the closest weather station at the USDI Bureau of Land Management, Price Office. The average annual precipitation for 1996 was 7.94 inches and monthly precipitation for the 1996 water year, October, 1995 through September, 1996 was as follows:

October, 1995	0.02 inches	April	0.33 inches
November	0.00	May	1.58
December	0.42	June	0.45
January, 1996	0.73	July	0.34
February	0.32	August	0.02
March	1.46	September	2.27

Annual precipitation for 1996 was 79 percent of the 30 year average. The 30 year average annual precipitation is 9.99 inches.

2.0 Vegetation Sampling

2.1 Location of Sample Sites

Transects were located randomly throughout the 3.4-acre reference area and six revegetated areas. Each transect was considered to represent one sample.

The revegetation areas chosen for sampling were selected on the basis of revegetation treatment, slope, aspect and general topographic similarities. The sampled revegetated areas correspond to reclamation treatment areas identified in the Reclamation Plan as follows:

Areas 15 and 17	Former refuse pile and landfill area
Area 16	Borrow pit area
Areas 11,13,and 14	Flat topography near canyon mouth
Area 3	North facing slope
Area 6	South facing slope
Area 7	Rabbitbrush treatment area

Fifteen samples were taken in each area for a total of 75 samples within the revegetation area. This combined data, excluding Area 7 data, was used to determine the overall success of the revegetation area. Sample adequacy was met at the 90% confidence level with a 10% change in the mean as required by DOGM.

2.2 Quantitative Sample Types

The point-intercept method was used to sample cover. Points were observed every two feet along a transect 100 feet in length. Vegetation species, or presence of rock, litter, or bare ground was recorded at each point. Dead, mostly decayed organic matter that was still attached to the ground was counted as litter rather than as live vegetation; organic matter that was dried, attached, but not decayed was counted as vegetation. The fifty-point sample was then used to calculate percent cover statistics for the site. Fifteen cover transects were sampled in each of the revegetation sites, for a total of 90 samples. A total of 31 cover transects was sampled in the reference area.

Shrub densities were estimated using a 0.05-acre macroplot within the revegetation area. These macroplots were in the shape of a Lindsey elbow, with two 10 x 100 foot plots at a right angle

to each other. All individual shrubs rooted in the plots were counted. Fifteen Lindsey elbows were sampled in each of the revegetated sites, (except for Area 7, rabbitbrush treatment area) a total of 90 in the entire revegetation area. The total number of shrub plants per acre was calculated.

2.3 Qualitative Sample Types

Observations were made at each of the six revegetation sampling areas. Notes were made recording growth, species success, soil conditions, erosion, livestock or wildlife use, insect damage, and/or other special conditions. Photo stations were also visited.

2.4 Data Analysis

All data obtained from cover and density sampling were checked for completeness, and statistical information was generated. The Jaccard's Community Coefficient was used to compare similarity of each of the revegetated sites with the reference area.

For each transect sampled, percent cover was recorded separately for each vegetative species, and the ground cover components of litter, rock and bare ground. Additionally, presence of cryptogamic soil was recorded within the reference area. The 50 points along a transect were considered to represent one sample. The data for all transects within the reference area and revegetated sites were averaged to provide mean cover values.

3.0 Discussion of the Results

Appendix I provides color photos of photo stations. Appendix II provides location maps of sample transects. Appendices III-V provide sampling results for both cover and shrub density for the revegetation area and cover data for the reference area, as listed below. Following is a summary of these results.

Appendix I	Photo Stations
Appendix II	Horse Canyon Revegetation and Reference Areas - Sample Location Maps
Appendix III	Horse Canyon Revegetation Areas - Percent Cover Data
Appendix IV	Horse Canyon Reference Area - Percent Cover Data
Appendix V	Horse Canyon Revegetation Areas - Shrub Density Data

3.1 Revegetation Areas

The average vegetation cover in the six revegetation areas ranged from 47 to 55 percent, with species makeup generally quite consistent among the six sites. Grasses were the dominant plant form, followed by shrubs. Forbs were very low in numbers due to the abnormally low precipitation during the early growing season. Also, introduced species such as *Melilotus officinalis* and *Medicago sativa* have been reduced greatly as expected under native range climatic conditions. It should be noted that Area 7 was left out of combined data calculations due to the different treatment of this area. Area 7 is the rabbitbrush treatment area and was handled separately when calculations were combined for an overall cover and shrub density figure for the revegetation area.

Atriplex canescens and *Artemisia tridentata tridentata* shared dominance as the shrub species. *Agropyron spicatum* was the dominant grass.

Shrub density ranged from 2744-6181 plants per acre with a mean of 4773 plants per acre. Dominant shrubs did have young recruitment, *Artemisia tridentata tridentata* and *Atriplex canescens* plants.

Area 15-17

Total vegetation cover averaged 53.5 percent for the 15 sample sites within Area 15-17. Of this amount grasses comprised of 61 percent of total vegetation, shrubs 39 percent and forbs <1 percent.

Shrub density averaged 5248 plants/acre, with the dominance being shared by *Artemisia tridentata* and *Atriplex canescens*.

Area 16

Total vegetation cover averaged 53.4 percent for the 15 sample sites within Area 16. Of this amount, grasses comprised of 72 percent of the total vegetation, shrubs 27 and forbs 1 percent.

Shrub density averaged 5116 plants/acre, with the dominance being shared by *Artemisia tridentata* and *Atriplex canescens*.

Area 3

Total vegetation cover averaged 54.5 percent for the 15 sample sites within Area 3. Of this amount grasses comprised 59 percent of the total vegetation, shrubs 40 percent and forbs 1 percent.

Shrub density average 2744 plants/acre, with the dominant being *Atriplex canescens*.

Area 6

Total vegetation cover averaged 47.1 percent for the 15 sample sites within Area 6. Of this amount, grasses comprised 63 of the total vegetation, shrubs 35 percent and forbs 2 percent.

Shrub density averaged 6181 plants/acre, with the dominant being *Artemisia tridentata tridentata*.

Area 7

Total vegetation cover averaged 51.2 percent for the 15 sample sites within Area 7. Of this amount, shrubs comprised of 65 percent of the total vegetation, grasses 35 percent and shrubs <1 percent.

Areas 11, 13 & 14

Total vegetation cover averaged 47.5 percent for the 15 sample sites within Areas 11, 13 & 14. Of this amount, grasses comprised of 54 percent of the total vegetation, shrubs 44 percent and forbs 2 percent.

Shrub density averaged 4144 plants/acre, with the dominant being *Atriplex canescens*.

3.2 Reference Area

Total vegetation cover at the reference area averaged 36.3 percent. Of this amount, trees comprised 56.4 percent, shrubs 5.6 percent, forbs 1.8 percent, grasses 36.0 percent and succulents 0.4 percent. *Juniperus osteosperma* was the dominant tree species, *Xanthocephalum sarothrae* was the dominant shrub species, and *Elymus salinus* was the dominant grass species recorded during the survey. There was no dominant forb or succulent species.

As a target of 3000 shrub plants per acre was established for the reference area, it was not necessary to sample shrub/tree density as an index for comparison with revegetation areas.

3.3 Comparison of Revegetation Areas with Reference Area

The Jaccard's Community Coefficient was calculated as a measure of the similarity of each of the revegetated sites with the reference area. The index can range from 1 to 100, with an index of 0 representing sites with no species in common and thus very dissimilar, and an index of 100 representing sites that have all the same species and thus are very similar. As the data table shows, the similarity ranged from 6.9 to 14.3, indicating that the sites have some species in common, but not a majority. This is expected given the differences in species in the recently seeded area with those present in the native reference area.

A comparison of vegetative cover in the six revegetated sites (ranging from 47.1 to 54.5 percent) with the 1996 reference area survey (36.3 percent) shows that a much greater cover is present on the revegetated sites. As specified in the reclamation plan, the revegetation will be considered successful when vegetative cover and diversity are within 90% of the undisturbed communities at a 90% statistical confidence. The vegetative cover mean for the reference area at the 90% confidence level is 36.3 percent cover. The vegetative cover mean for the combined data for the revegetated areas at the 90% confidence level is 51.4 percent cover.

$$36.3\% \times (90\%) = 32.7\%$$

The 51.4 percent vegetative cover in the revegetation areas is greater than the required 32.7 percent vegetative cover in the reference area (90 percent of the undisturbed communities). Therefore vegetation cover has been met by the reclamation effort on the revegetation areas at Horse Canyon.

A comparison of shrub density in the six revegetated sites (ranging from 2744 to 6181 plants/acre, with a mean of 4773 plants/acre) with the target of 3000 plants per acre in the reclamation plan indicates that the target has been met for shrub density in the reclamation site, except for Area 3 (2,744 plants/acre). Further, success of this site is illustrated by the establishment for five years, the majority of the plants are mature, producing seed and plants have survived both good and poor precipitation years. Shrub density on the revegetated sites met the goal of 3,000 plants/acre at a 90% statistical confidence in order to be considered successful.

3.4 Qualitative Samples

Overall qualitative observations indicate that there is little or no soil movement due to erosion. This is due to the high percentage of ground cover, soil binding plants that have been established such as grasses and the relatively low precipitation that has taken place during the previous spring and summer months.

For the most part grasses and shrubs have very little seed production due to the drought over the growing season. Few shrubs have been able to produce seed, however these are isolated plants that have a microclimate that would have concentrated any available moisture. Overall, grass and shrub species are healthy and stable. Due to the lack of moisture and the present drought year, plants have very low annual production.

The forbs are for the most part absent. The low precipitation eliminated much of the introduced species over the last couple of years, such as *Melilotus officinalis* and *Medicago sativa*. *Melilotus officinalis* is generally a part of a revegetation mixture for quick establishment and site stabilization, however, as a biannual, is soon eliminated and out competed by natives and more adapted introduced species. *Medicago sativa* is a long-lived species and its decline may be due to the dense grass cover.

Shrub density has been greatly reduced over the years, as expected. The early establishment years were high in seedling numbers, however, stronger individuals out competed and established fewer mature plants on the site.

Overall there has been a decrease in *Chrysothamnus viscidiflorus* and *Chrysothamnus nauseosus*, the leaves show signs of some sort of insect damage, however this is not conclusive. Further, these sites are not typical *Chrysothamnus* spp. sites and these plants are apparently out competed by better adapted species such as *Artemisia tridentata tridentata* and *Atriplex canescens*.

Litter is lower in some areas due to the lack of annual production. In past years *Bromus tectorum* contributed significantly to annual litter production.

Area 6

An odd utilization pattern that follows the old road in this site indicates that grazing has taken place by a feral cow and/or calf. Cow manure is present on site as well.

3.5 Sample Adequacy Calculations

To determine the number of transects required to adequately sample the vegetation in the reference area, the formula presented in the DOGM guidelines was used.

A 90 percent confidence level, with a 10 percent change in the mean was used to determine sample adequacy levels for both cover and density parameters. Results of the adequacy tests are shown in the following tables. Only the vegetation cover values were used in the cover parameter sample adequacy calculations.

SAMPLE ADEQUACY INFORMATION HORSE CANYON REVEGETATION AREA 15-17				
Parameter	n	Mean	Std	n_{min}
Cover	15	53.5	10.8	6.4
Shrub Density	15	5247.5	2293.9	34.9

SAMPLE ADEQUACY INFORMATION HORSE CANYON REVEGETATION AREA 16				
Parameter	n	Mean	Std	n_{min}
Cover	15	53.4	6.8	2.9
Shrub Density	15	5115.6	2744.3	54.3

SAMPLE ADEQUACY INFORMATION HORSE CANYON REVEGETATION AREA 3				
Parameter	n	Mean	Std	n_{min}
Cover	15	54.5	14.2	12.4
Shrub Density	15	2744.4	1169.2	32.8

SAMPLE ADEQUACY INFORMATION HORSE CANYON REVEGETATION AREA 6				
Parameter	n	Mean	Std	n_{min}
Cover	15	47.1	13.4	14.5
Shrub Density	15	6181.2	1626.5	12.6

SAMPLE ADEQUACY INFORMATION HORSE CANYON REVEGETATION AREA 7				
Parameter	n	Mean	Std	n_{min}
Cover	15	51.2	9.2	5.8
Shrub Density	None	n/a	n/a	n/a

SAMPLE ADEQUACY INFORMATION HORSE CANYON REVEGETATION AREA 11,13,14				
Parameter	n	Mean	Std	n_{min}
Cover	15	47.5	13.2	13.8
Shrub Density	15	4144.0	3217.8	110.5

SAMPLE ADEQUACY INFORMATION HORSE CANYON REVEGETATION AREA COMBINED DATA				
Parameter	n	Mean	Std	n_{min}
Cover	75	51.4	12.1	13.8
Shrub Density	75	4773.0	2549.6	50.3

SAMPLE ADEQUACY INFORMATION HORSE CANYON REFERENCE AREA				
Parameter	n	Mean	Std	n_{min}
Cover	31	36.3	12.4	19.7
Tree/Shrub	None	n/a	n/a	n/a

3.6 Similarity Index

The Jaccard's Community Coefficient was used to compare similarity of each of the revegetated sites with the reference area.

JACCARD'S COMMUNITY COEFFICIENT Horse Canyon Revegetation				
Revegetation Community	a	b	c	Similarity Index
Area 15-17	16	16	3	10.3
Area 16	12	16	2	7.7
Area 3	12	16	2	7.7
Area 6	15	16	2	6.9
Area 7	16	16	4	14.3
Area 11, 13, & 14	11	16	2	8.0
Combined Data	20	16	3	9.1

Jaccard's Community Coefficient:

$$\text{Similarity Index} = \frac{\text{common species}}{\text{total species}} \times 100 \quad \text{or} \quad SI = \frac{c}{a + b - c} \times 100$$

Where:

SI = Similarity Index

a = Total number of species in revegetated community

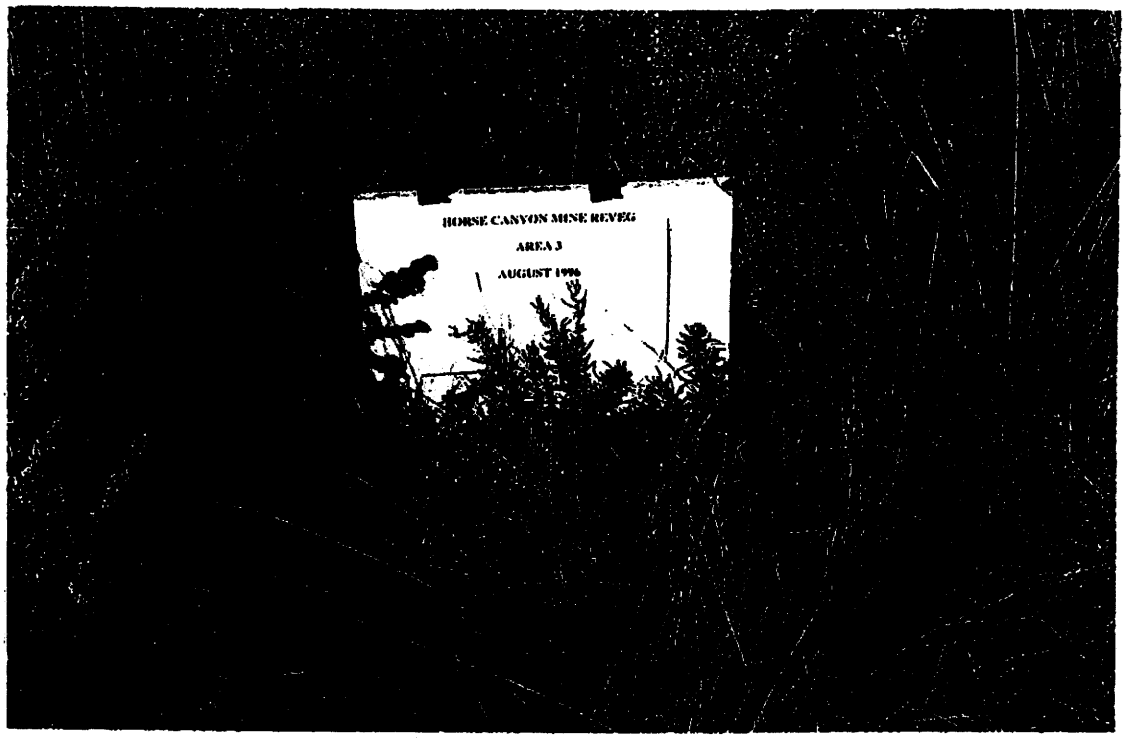
b = Total number of species in reference community

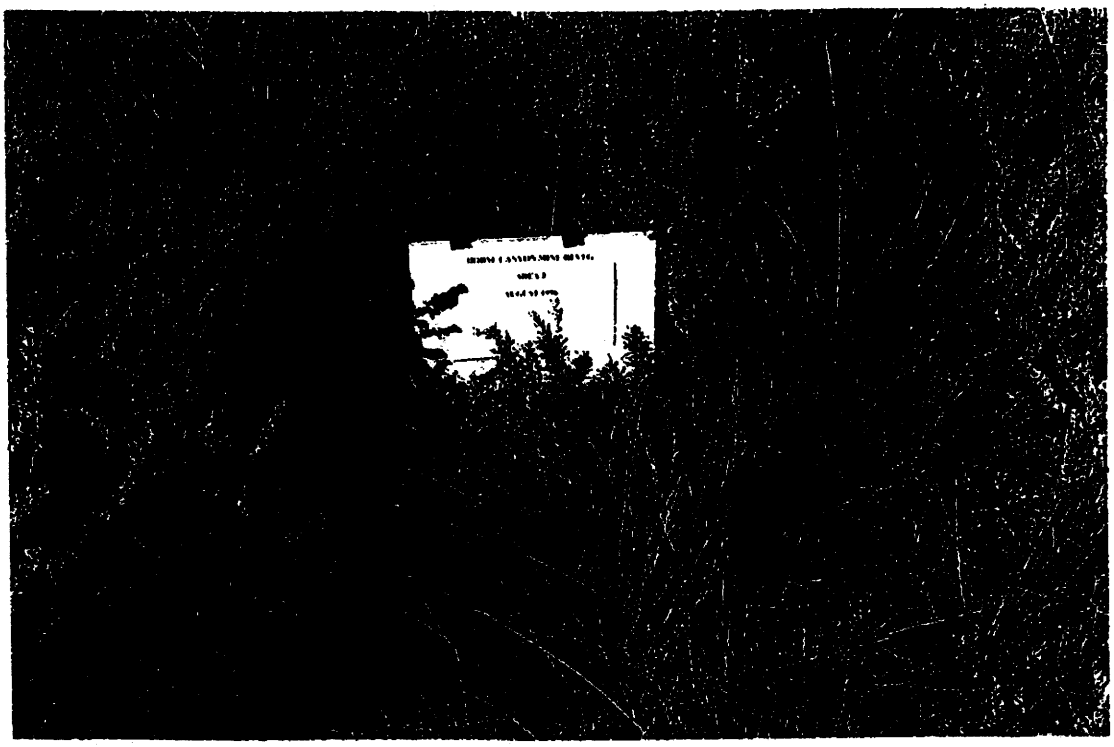
c = Number of species common to both communities

APPENDIX I

Horse Canyon
1996 Photo Stations

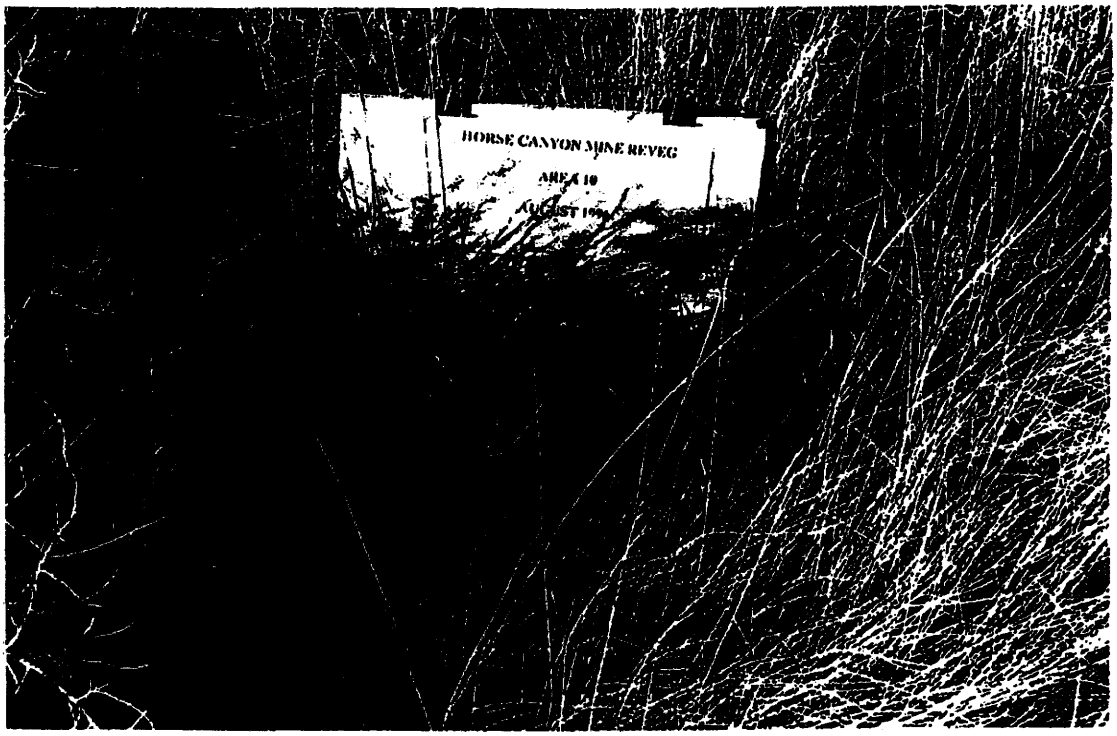
HORSE CANYON AREA 3

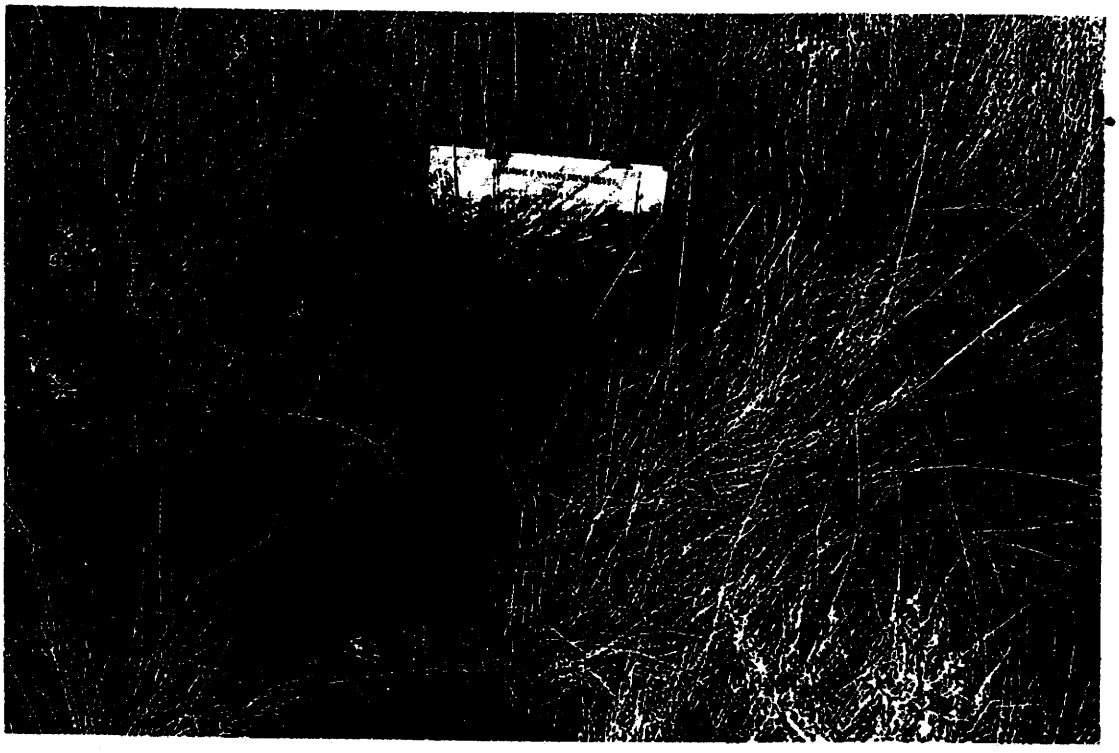




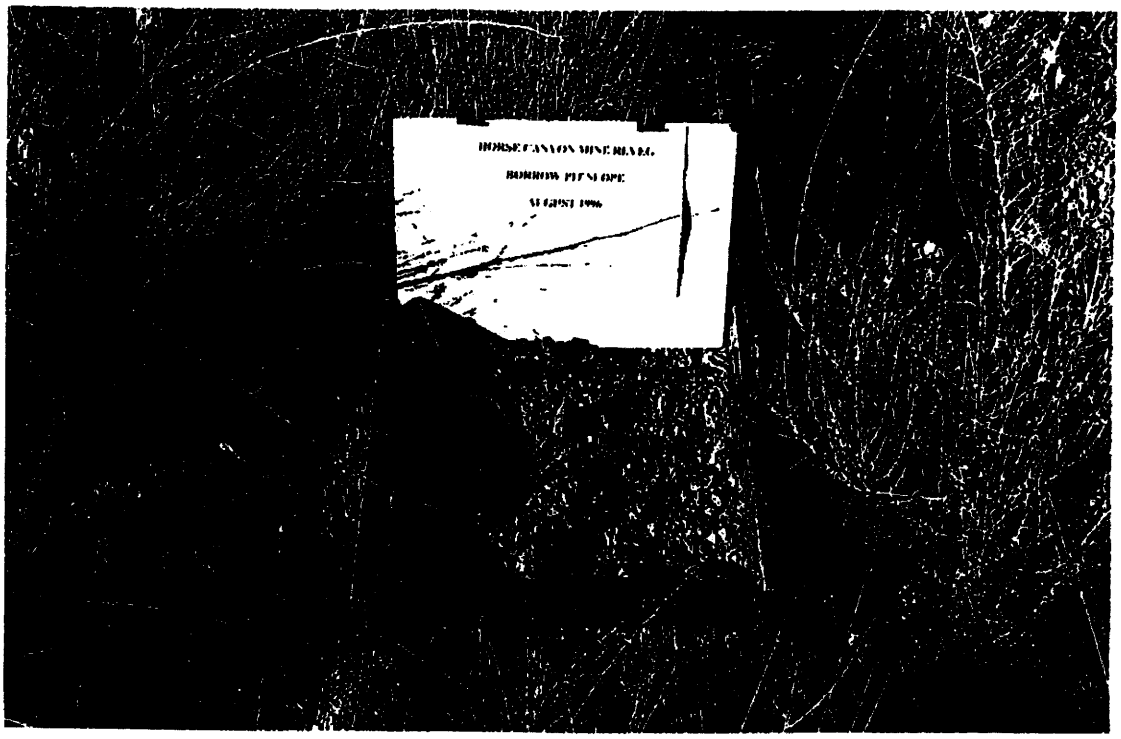
HORSE CANYON AREA 6

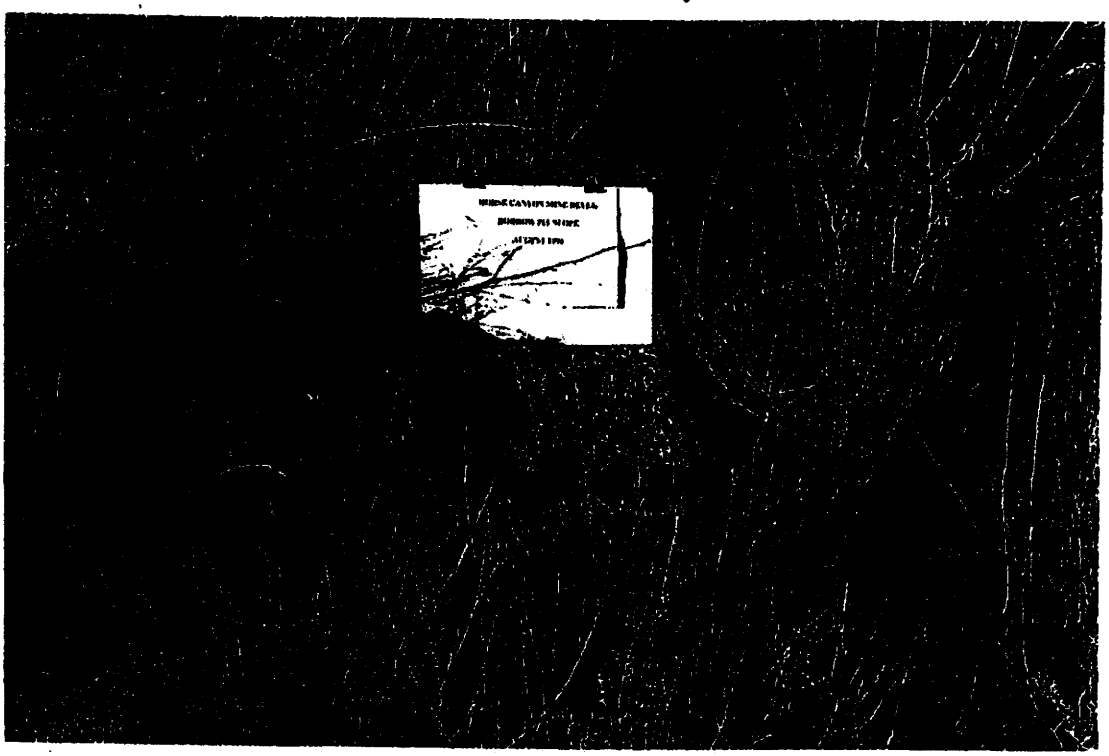
HORSE CANYON AREA 10



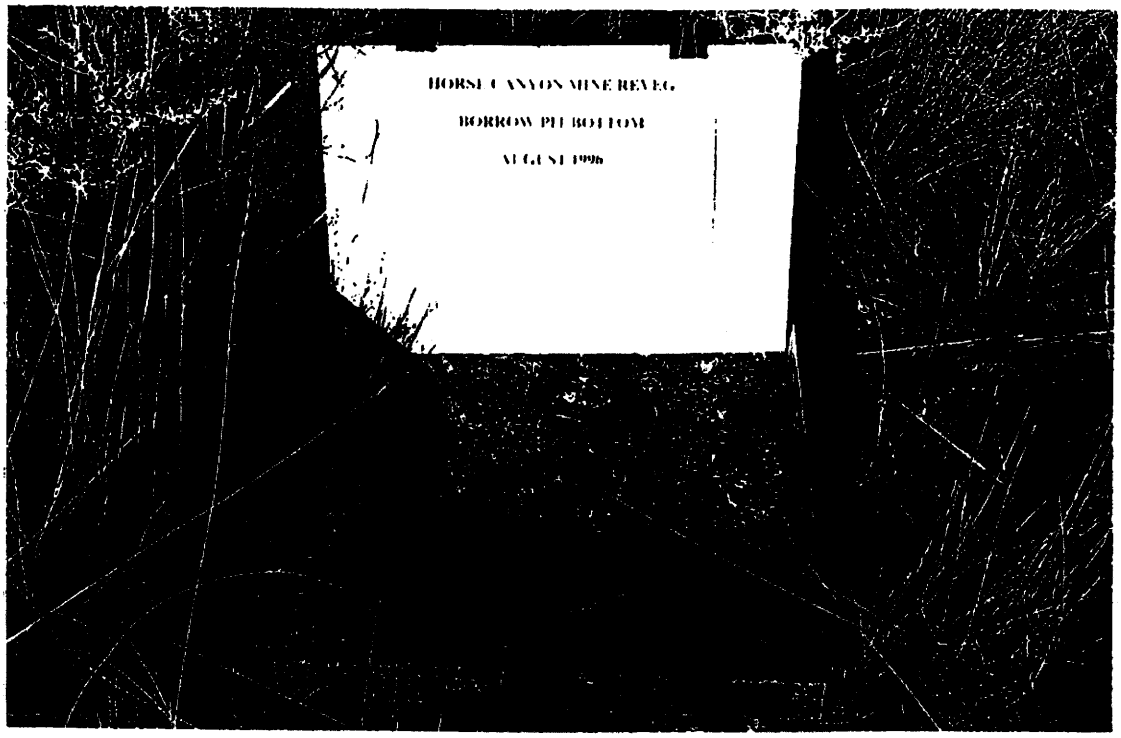


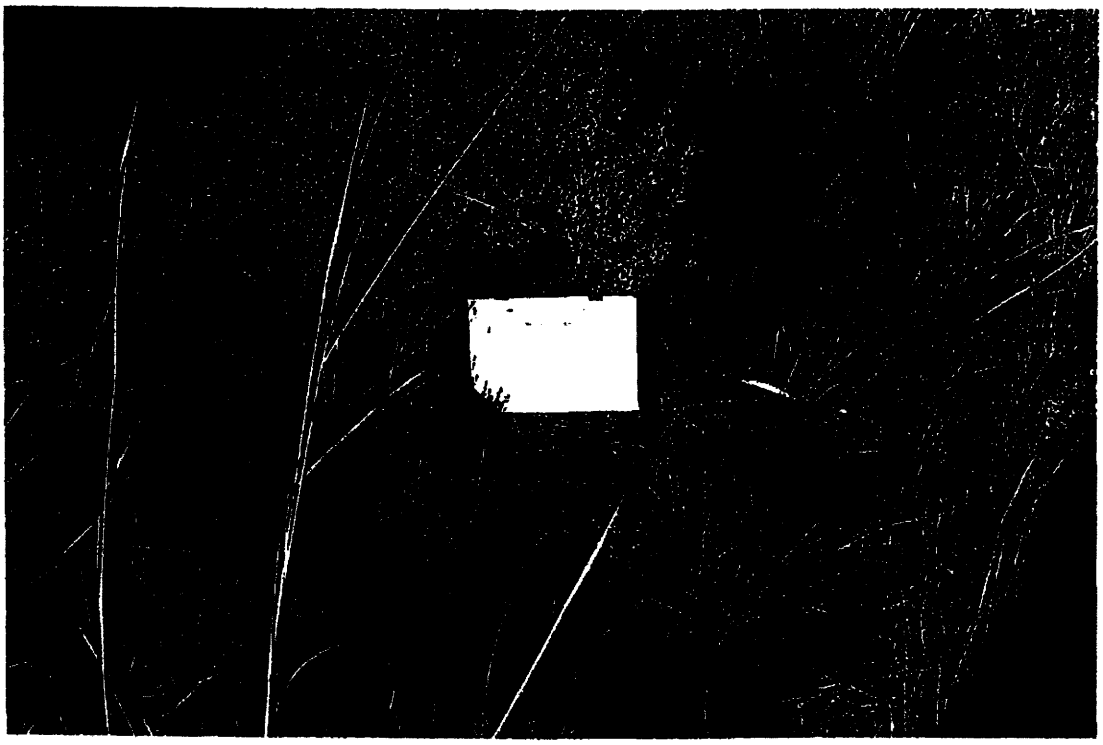
HORSE CANYON BORROW PIT SLOPE





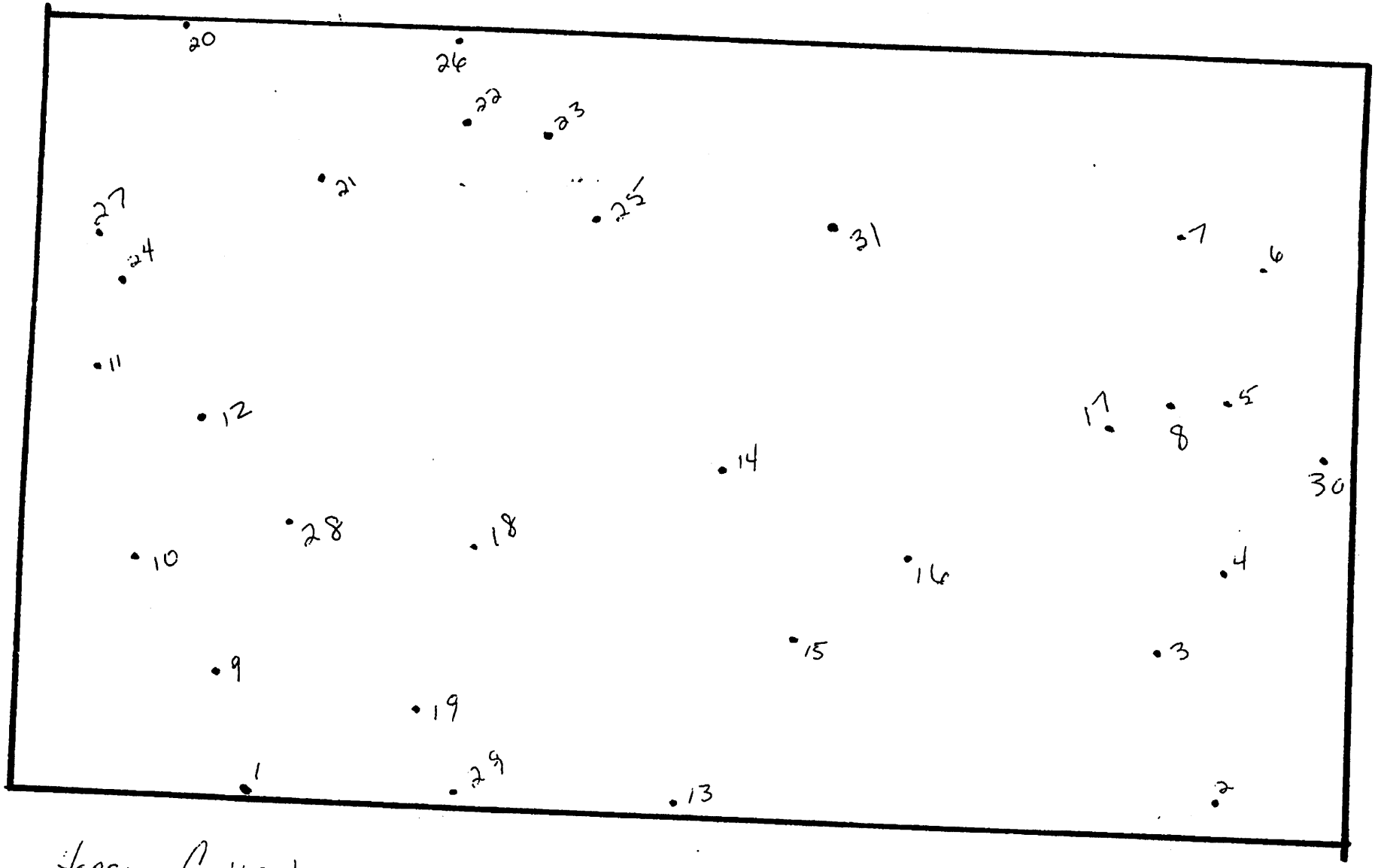
HORSE CANYON BORROW PIT FLAT



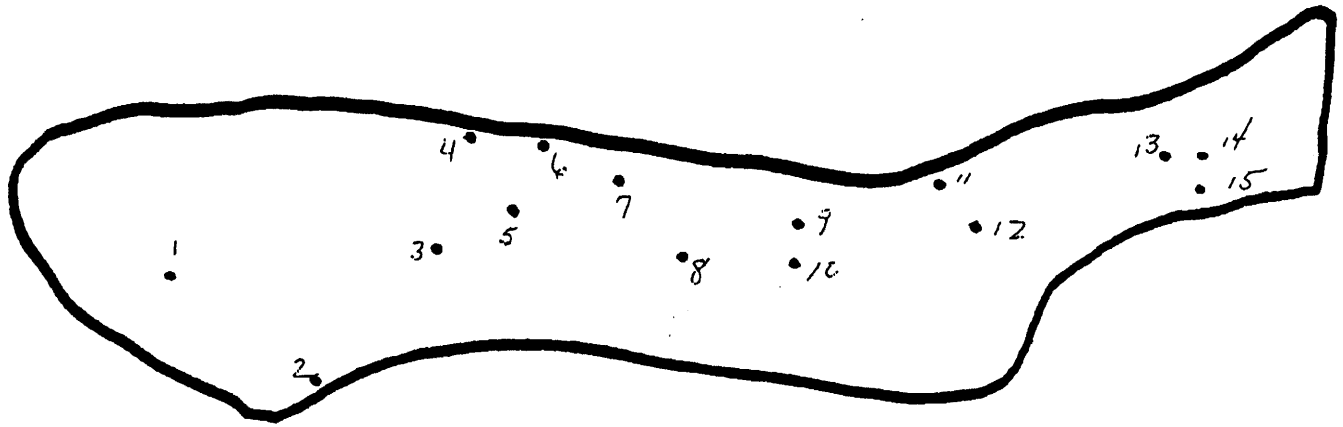


APPENDIX II

Horse Canyon Reference Area and Revegetation Area Sample Location Maps



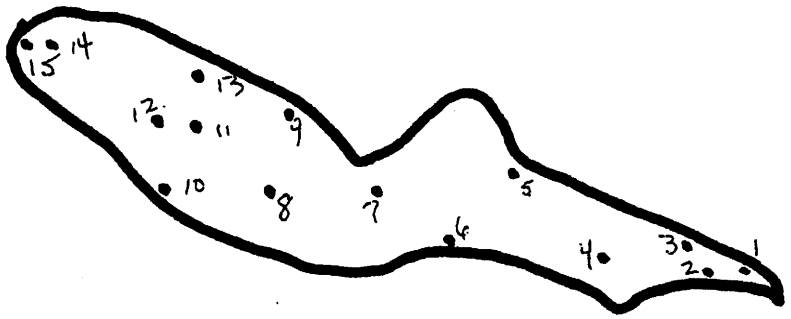
Horse Canyon
Reference Area
1996 Sample Sites



N ↑

Horse Canyon
Revegetation Area 3

1996 Seasonal Points

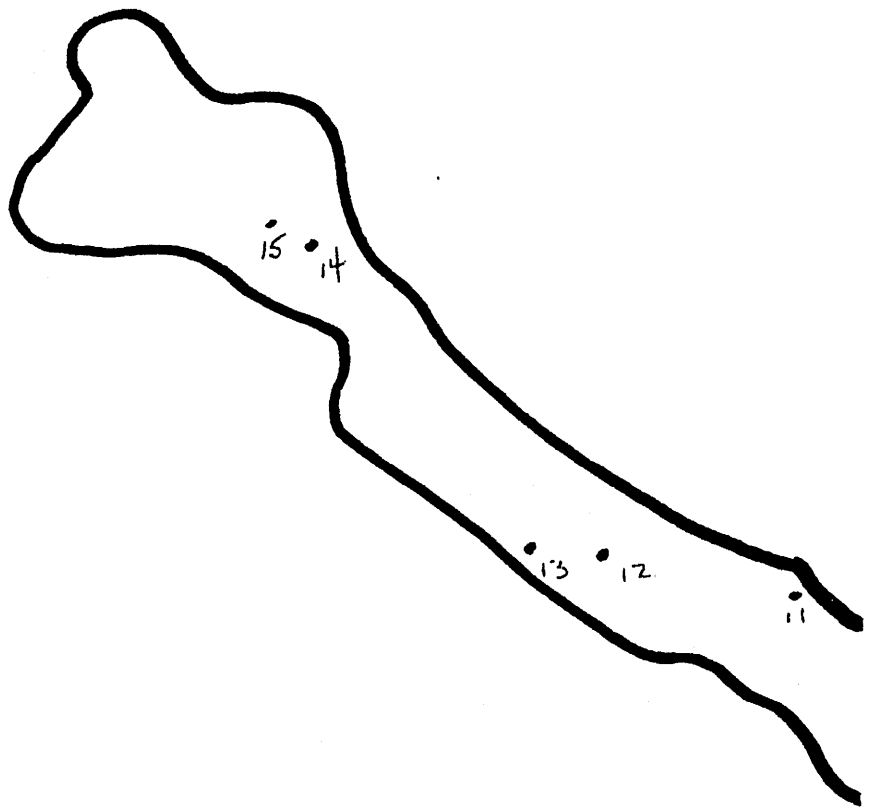


N

HORST CANYON
REVEGETATION AREA 6
1996 SAMPLE SITES

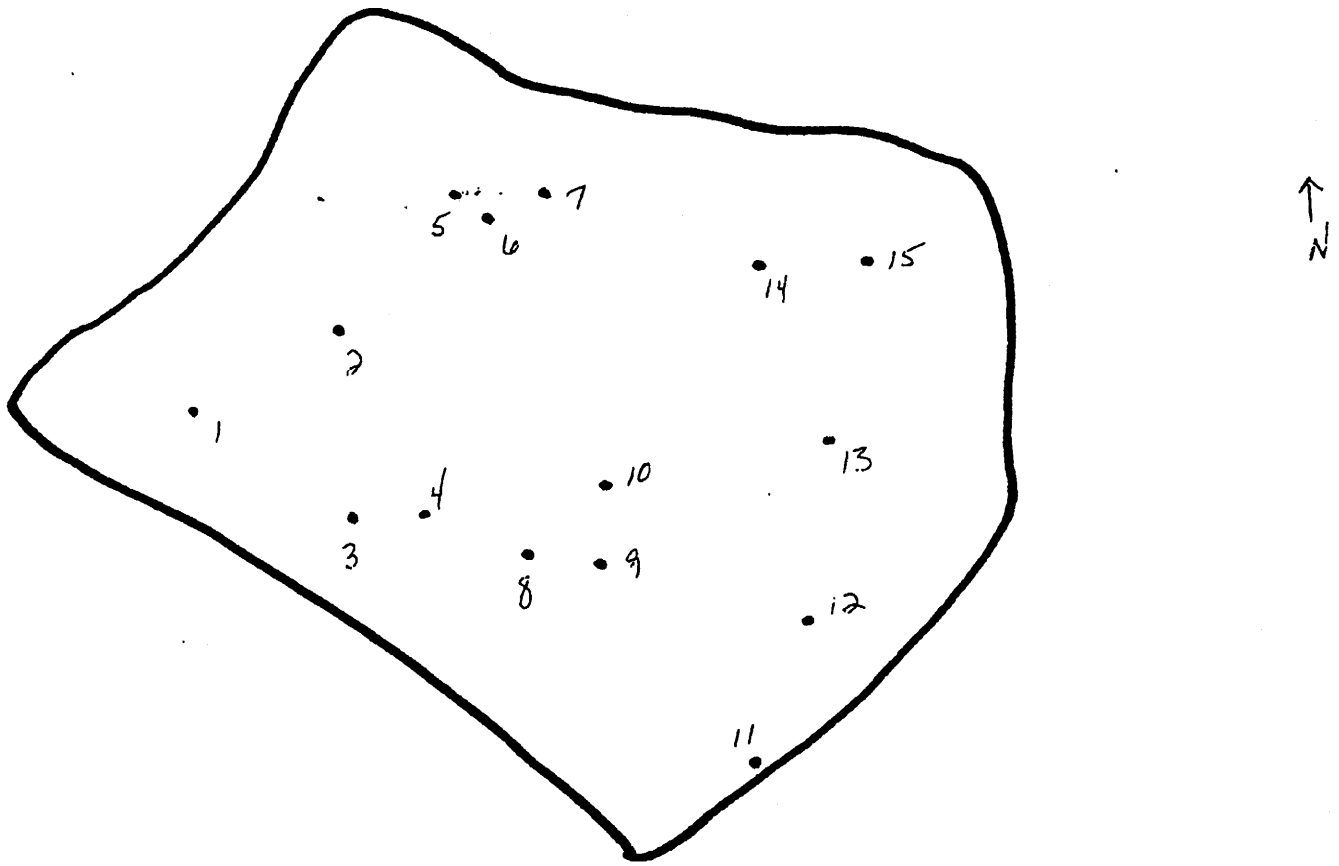
HORSE CANYON
REVEGETATION AREAS 11, 13 & 14
1996 SAMPLE SITES

N

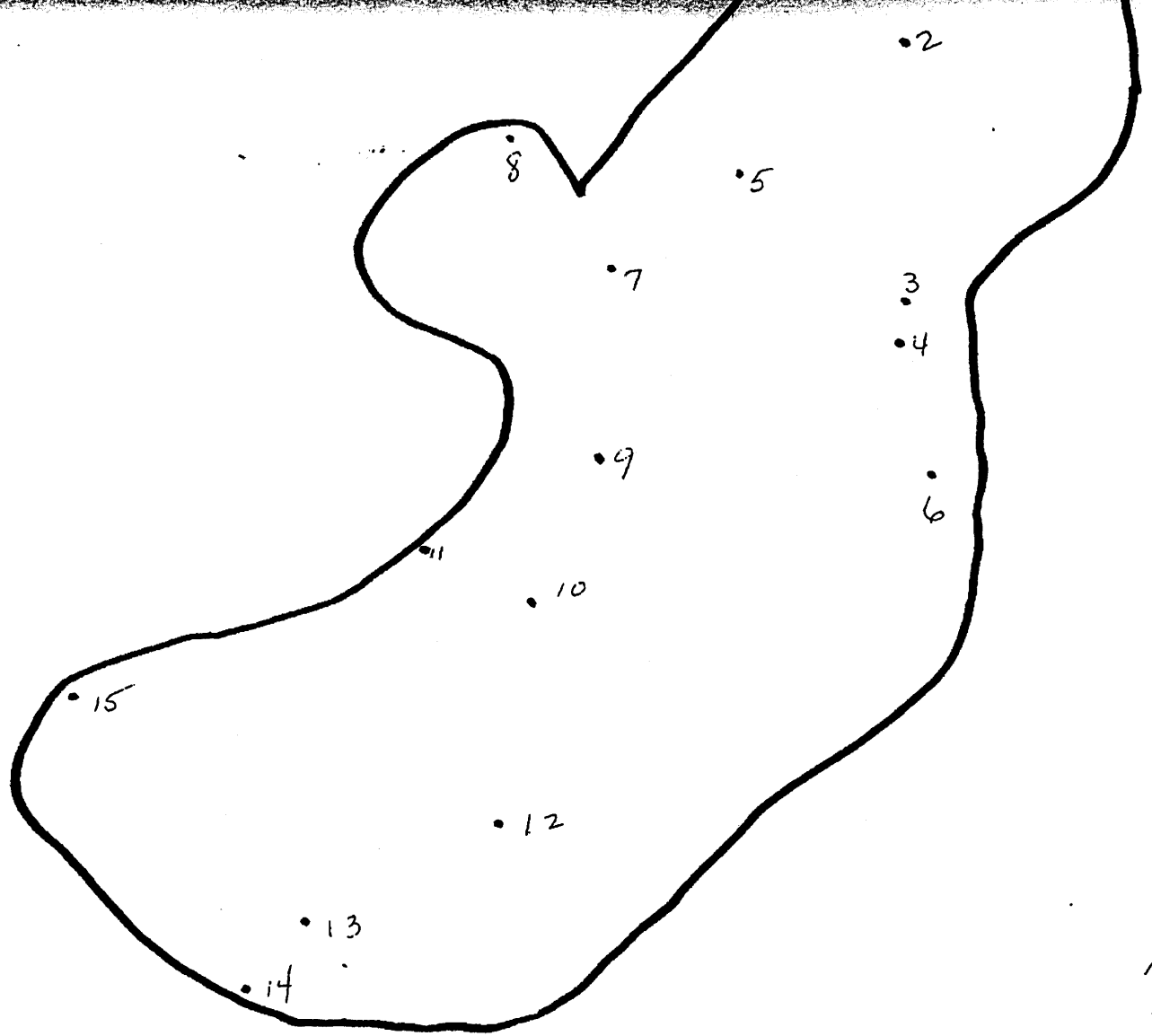

15
14
13
12
11

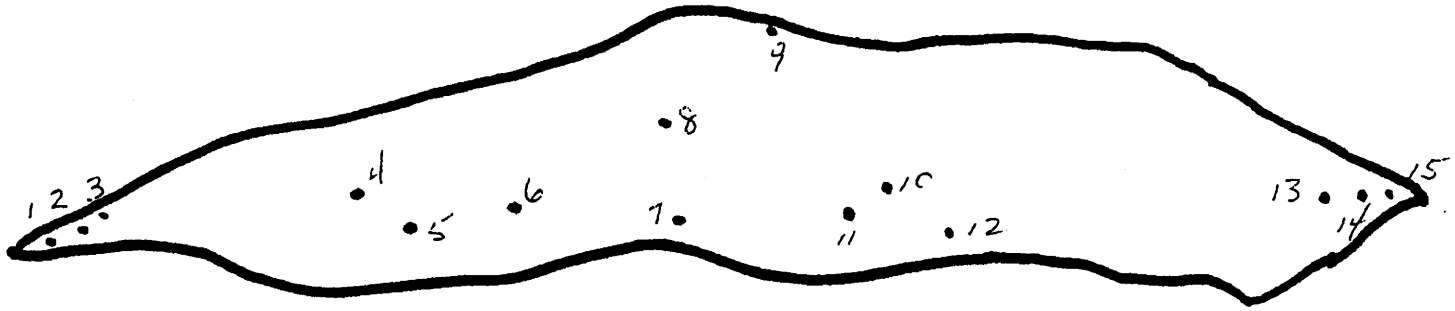
Area 16

1996 Sample Sites:



1886 Surface Sites





Horse Canyon
Revegetation Area 7
Rabbit Brush Treatment Area
1996 Sample Sites

APPENDIX III

Horse Canyon Revegetation Areas
Percent Cover Data

Horse Canyon Revegetation Area Percent Cover Data (Area 11, 13 & 14)								
PLANT SPECIES			STAND					
	1	2	3	4	5	6	7	8
Shrubs								
Atriplex canescens	14	22	34	18	12	4	8	18
Artemisia tridentata tridentata	0	0	2	0	6	0	0	0
Chrysothamnus nauseosus	0	2	2	0	0	0	0	0
Chrysothamnus viscidiflorus	0	0	0	0	0	4	0	0
Total Shrubs Cover	14	24	38	18	18	8	8	18
Forbs								
Melilotus officinalis	0	0	4	0	2	4	0	0
Total Forb Cover	0	0	4	0	2	4	0	0
Graminoid								
Agropyron spicatum	26	30	6	24	6	4	44	22
Agropyron cristatum	0	2	0	0	0	0	0	0
Agropyron trachycaulum	0	0	0	0	0	0	2	0
Elymus cinereus	0	0	0	0	2	0	0	4
Oryzopsis hymenoides	2	0	0	2	0	0	0	0
Sitanion hystrix	2	0	0	0	0	0	0	0
Total Graminoid Cover	30	32	6	26	8	4	46	26
Total Vegetation Cover	44	56	48	44	28	16	54	44
Litter	46	30	50	42	68	80	42	52
Rock	0	2	0	0	0	2	0	0
Bare Ground	10	12	2	14	4	2	4	4

Horse Canyon Revegetation Area
Percent Cover Data (Area 11, 13 & 14)

PLANT SPECIES	STAND						
	9	10	11	12	13	14	15
Shrubs							
Atriplex canescens	6	28	26	24	24	26	10
Artemisia tridentata tridentata	6	0	0	4	0	2	12
Chrysothamnus nauseosus	0	0	0	2	0	0	2
Chrysothamnus viscidiflorus	0	0	0	0	0	0	0
Total Shrubs Cover	12	28	26	30	24	28	24
Forbs							
Melilotus officinalis	0	0	0	0	2	0	0
Total Forb Cover	0	0	0	0	2	0	0
Graminoid							
Agropyron spicatum	28	16	42	34	12	30	32
Agropyron cristatum	2	2	0	0	0	0	0
Agropyron trachycaulum	0	2	0	0	2	0	0
Elymus cinereus	0	0	0	0	2	0	0
Oryzopsis hymenoides	2	0	0	0	0	0	0
Sitanion hystrix	2	0	0	0	0	0	0
Total Graminoid Cover	34	20	42	34	16	30	32
Total Vegetation Cover	46	48	68	64	42	58	56
Litter	52	56	30	32	44	22	34
Rock	0	0	0	2	6	16	10
Bare Ground	2	6	2	2	8	4	0

Horse Canyon Revegetation Area
Percent Cover Data (Area 15, 17)

PLANT SPECIES	STAND							
	1	2	3	4	5	6	7	8
Shrubs								
Atriplex canescens	6	12	26	26	18	6	24	18
Atriplex confertifolia	0	0	0	0	0	0	2	0
Atriplex corrugata	0	0	0	0	0	2	0	0
Artemisia tridentata tridentata	10	4	0	0	2	2	0	0
Chrysothamnus nauseosus	0	0	0	0	0	0	0	0
Chrysothamnus viscidiflorus	0	0	0	0	0	0	0	2
Ceratoides lanata	0	0	0	0	0	0	0	0
Sarcobatus vermiculatus	0	4	0	0	0	0	0	2
Total Shrubs Cover	16	20	26	26	20	10	26	22
Forbs								
Melilotus officinalis	0	0	0	0	0	0	0	2
Total Forb Cover	0	0	0	0	0	0	0	2
Graminoid								
Agropyron spicatum	16	32	38	44	42	44	40	18
Agropyron cristatum	0	0	0	0	0	0	0	0
Agropyron trachycaulum	0	0	0	0	0	0	0	0
Elymus cinereus	0	0	2	0	0	0	0	0
Oryzopsis hymenoides	0	0	0	0	2	0	0	2
Poa species	0	0	0	0	0	0	0	2
Sitanion histrix	0	0	0	0	0	0	0	0
Total Graminoid Cover	16	32	40	44	44	44	40	22
Total Vegetation Cover	32	52	66	70	64	54	66	46
Litter	38	24	26	24	26	46	24	30
Rock	26	2	4	0	0	0	0	10
Bare Ground	4	22	4	6	10	0	10	14

Horse Canyon Revegetation Area Percent Cover Data (Area 15, 17)								
PLANT SPECIES			STAND					
	9	10	11	12	13	14	15	
Shrubs								
Atriplex canescens	20	18	2	12	16	10	14	
Atriplex confertifolia	2	0	0	0	0	0	0	
Atriplex corraguta	0	0	0	0	0	0	0	
Artemisia tridentata tridentata	0	4	6	10	6	12	2	
Chrysothamnus nauseosus	0	2	0	0	0	0	0	
Chrysothamnus viscidiflorus	0	2	0	2	0	2	0	
Ceratoides lanata	0	2	0	0	0	0	0	
Sarcobatus vermiculatus	2	0	0	0	0	0	0	
Total Shrubs Cover	24	28	8	24	22	24	16	
Forbs								
Melilotus officinalis	0	0	0	0	0	0	0	
Total Forb Cover	0	0	0	0	0	0	0	
Graminoid								
Agropyron spicatum	32	22	32	30	30	10	26	
Agropyron cristatum	2	0	0	0	0	0	0	
Agropyron trachycaulum	0	0	2	0	0	0	0	
Elymus cinereus	0	2	0	0	2	0	4	
Oryzopsis hymenoides	0	0	0	0	2	0	4	
Poa species	0	0	2	0	2	0	0	
Sitanion hystrix	0	2	2	0	0	0	0	
Total Graminoid Cover	34	26	38	30	36	10	34	
Total Vegetation Cover	58	54	46	54	58	34	50	
Litter	36	32	42	44	34	60	32	
Rock	0	6	4	2	2	4	0	
Bare Ground	6	8	8	0	6	2	18	

Horse Canyon Revegetation Area Percent Cover Data (Area 16)								
PLANT SPECIES			STAND					
	1	2	3	4	5	6	7	8
Shrubs								
Atriplex canescens	14	16	14	14	2	4	4	4
Atriplex confertifolia	0	0	0	0	0	6	2	0
Artemisia tridentata tridentata	4	2	0	4	6	2	0	0
Chrysothamnus nauseosus	0	0	0	0	0	0	2	0
Chrysothamnus viscidiflorus	0	0	0	0	0	4	8	2
Ceratoides lanata	4	0	4	0	0	0	0	0
Total Shrubs Cover	2218	18	18	18	8	16	16	6
Forbs								
Melilotus officinalis	0	2	0	0	10	0	0	0
Total Forb Cover	0	2	0	0	10	0	0	0
Graminoid								
Agropyron spicatum	38	20	28	22	30	38	40	28
Agropyron cristatum	0	0	0	4	0	0	0	0
Agropyron trachycaulum	0	0	0	0	0	0	0	18
Elymus cinereus	0	0	2	0	0	2	2	0
Oryzopsis hymenoides	0	0	2	0	2	2	4	0
Total Graminoid Cover	38	20	32	26	32	42	46	46
Total Vegetation Cover	60	40	50	44	50	58	62	52
Litter	28	32	18	44	32	26	26	24
Rock	0	14	4	2	8	2	0	6
Bare Ground	12	14	28	10	10	14	12	18

Horse Canyon Revegetation Area Percent Cover Data (Area 16)								
PLANT SPECIES			STAND					
	9	10	11	12	13	14	15	
Shrubs								
Atriplex canescens	10	10	8	0	0	22	14	
Atriplex confertifolia	2	0	0	0	6	0	0	
Artemisia tridentata tridentata	0	0	0	0	0	0	0	
Chrysothamnus nauseosus	0	0	2	2	8	0	0	
Chrysothamnus viscidiflorus	2	0	2	0	2	2	0	
Ceratoides lanata	0	0	0	0	0	0	0	
Total Shrubs Cover	14	10	12	2	16	24	14	
Forbs								
Melilotus officinalis	0	0	0	0	0	0	0	
Total Forb Cover	0	0	0	0	0	0	0	
Graminoid								
Agropyron spicatum	22	40	40	38	40	42	24	
Agropyron cristatum	2	0	0	0	0	0	0	
Agropyron trachycaulum	2	0	0	2	0	0	8	
Elymus cinereus	6	0	0	2	2	0	4	
Oryzopsis hymenoides	4	2	2	6	0	0	4	
Total Graminoid Cover	36	42	42	48	42	42	40	
Total Vegetation Cover	50	52	54	50	58	66	54	
Litter	30	38	18	34	24	22	18	
Rock	0	6	2	0	6	0	6	
Bare Ground	20	4	26	16	12	12	22	

Horse Canyon Revegetation Area Percent Cover Data (Area 3)								
PLANT SPECIES			STAND					
	1	2	3	4	5	6	7	8
Shrubs								
Atriplex canescens	14	20	22	2	16	4	10	2
Artemisia tridentata tridentata	2	6	0	2	0	0	0	0
Chrysothamnus nauseosus	0	0	4	0	0	0	0	0
Chrysothamnus viscidiflorus	2	0	2	4	12	12	14	10
Total Shrubs Cover	18	26	28	8	28	16	24	12
Forbs								
Melilotus officinalis	0	0	0	0	0	0	0	2
Penstemon palmeri	0	0	0	0	0	0	0	0
Total Forb Cover	0	0	0	0	0	0	0	2
Graminoid								
Agropyron spicatum	34	22	38	24	38	10	28	12
Agropyron cristatum	0	0	0	0	0	0	4	0
Agropyron trachycaulum	2	0	2	12	6	2	4	0
Elymus cinereus	0	6	2	0	4	2	0	2
Elymus giganteous	0	0	0	0	0	0	0	0
Oryzopsis hymenoides	0	0	0	0	0	0	0	0
Total Graminoid Cover	36	28	42	36	48	14	36	14
Total Vegetation Cover	54	54	70	44	76	30	60	28
Litter	26	44	26	50	22	58	32	60
Rock	18	0	2	0	0	2	0	0
Bare Ground	2	2	2	6	2	10	8	12

Horse Canyon Revegetation Area Percent Cover Data (Area 3)							
PLANT SPECIES	STAND						
	9	10	11	12	13	14	15
Shrubs							
Atriplex canescens	0	14	10	20	28	8	2
Artemisia tridentata tridentata	0	0	12	4	0	8	2
Chrysothamnus nauseosus	0	0	4	4	0	0	0
Chrysothamnus viscidiflorus	26	22	0	4	0	0	0
Total Shrubs Cover	26	36	26	32	28	16	4
Forbs							
Melilotus officinalis	0	0	0	0	0	0	0
Penstemon palmeri	0	0	0	0	0	0	2
Total Forb Cover	0	0	0	0	0	0	2
Graminoid							
Agropyron spicatum	10	20	28	36	26	38	38
Agropyron cristatum	0	0	0	0	0	0	0
Agropyron trachycaulum	0	0	2	0	0	2	6
Elymus cinereus	0	0	0	0	6	8	8
Elymus giganteous	0	0	0	0	0	0	2
Oryzopsis hymenoides	0	0	0	0	2	0	0
Total Graminoid Cover	10	20	30	36	34	48	54
Total Vegetation Cover	36	56	56	68	62	64	60
Litter	44	28	30	16	34	28	32
Rock	2	4	10	8	0	2	4
Bare Ground	18	12	4	8	4	6	4

Horse Canyon Revegetation Area Percent Cover Data (Area 6)								
PLANT SPECIES	STAND							
	1	2	3	4	5	6	7	8
Shrubs								
Atriplex canescens	8	16	2	12	6	12	2	12
Artemisia tridentata tridentata	0	2	2	4	4	0	4	4
Chrysothamnus nauseosus	0	0	0	2	0	0	0	0
Chrysothamnus viscidiflorus	2	2	4	14	0	2	0	0
Ceratoides lanata	0	0	2	0	0	0	4	4
Total Shrubs Cover	10	20	10	32	10	14	10	20
Forbs								
Medicago sativa	0	0	0	0	0	0	0	2
Melilotus officinalis	2	0	0	0	0	0	0	0
Penstemon palmeri	0	2	0	0	0	0	0	2
Salsola kali	0	2	2	0	0	2	0	0
Total Forb Cover	2	4	2	0	0	2	0	42
Graminoid								
Agropyron spicatum	28	26	10	6	30	14	18	24
Agropyron cristatum	0	0	0	0	0	0	0	0
Agropyron trachycaulum	0	2	2	0	0	0	0	0
Elymus cinereus	0	0	0	0	4	0	0	2
Oryzopsis hymenoides	0	0	0	4	0	0	0	0
Sitanion histrix	0	0	0	0	0	0	0	0
Total Graminoid Cover	28	28	12	10	34	14	18	26
Total Vegetation Cover	40	52	24	42	44	28	28	50
Litter	42	32	38	30	42	36	26	20
Rock	6	4	2	4	0	4	28	18
Bare Ground	12	12	36	24	14	32	18	12

Horse Canyon Revegetation Area Percent Cover Data (Area 6)							
PLANT SPECIES	STAND						
	9	10	11	12	13	14	15
Shrubs							
Atriplex canescens	8	12	10	6	24	22	8
Artemisia tridentata tridentata	2	4	2	2	2	0	4
Chrysothamnus nauseosus	2	0	2	0	0	0	0
Chrysothamnus viscidiflorus	6	0	8	0	6	0	0
Ceratoides lanata	0	0	0	0	0	0	0
Total Shrubs Cover	18	16	22	8	32	22	12
Forbs							
Medicago sativa	0	0	0	0	0	0	0
Melilotus officinalis	0	0	0	0	0	0	0
Penstemon palmeri	0	0	0	0	0	0	0
Salsola kali	0	0	0	0	0	0	0
Total Forb Cover	0	0	0	0	0	0	0
Graminoid							
Agropyron spicatum	30	36	28	40	36	40	42
Agropyron cristatum	2	0	0	0	0	0	0
Agropyron trachycaulum	0	0	0	0	0	0	0
Elymus cinereus	0	0	2	0	0	0	0
Oryzopsis hymenoides	0	0	4	4	4	2	2
Sitanion histrix	0	2	0	0	0	0	0
Total Graminoid Cover	32	38	34	44	40	42	44
Total Vegetation Cover	48	54	56	52	72	64	56
Litter	42	34	34	40	20	32	38
Rock	0	0	0	0	0	0	0
Bare Ground	10	12	10	8	8	4	16

Horse Canyon Revegetation Area Percent Cover Data (Area 7)								
PLANT SPECIES			STAND					
	1	2	3	4	5	6	7	8
Shrubs								
Atriplex canescens	18	10	14	10	12	24	18	26
Artemisia tridentata tridentata	4	4	6	4	10	6	10	2
Chrysothamnus nauseosus	0	2	0	0	0	0	0	0
Chrysothamnus viscidiflorus	0	12	18	16	16	14	14	12
Ceratoides lanata	0	0	0	0	0	0	0	0
Total Shrubs Cover	22	28	38	30	38	44	42	40
Forbs								
Machaeranthera canescens	0	0	0	0	0	0	0	2
Penstemon palmeri	0	0	0	0	0	0	0	0
Total Forb Cover	0	0	0	0	0	0	0	2
Graminoid								
Agropyron spicatum	24	18	10	20	22	10	4	12
Agropyron cristatum	2	0	0	0	0	0	0	0
Bromus tectorum	2	0	0	0	0	0	0	0
Elymus cinereus	0	0	0	0	0	0	0	0
Oryzopsis hymenoides	2	6	2	0	6	0	0	0
Poa species	4	0	0	0	0	0	0	2
Sitanion hystrix	0	0	0	0	0	0	0	0
Sporobolus cryptandrus	0	2	0	0	4	6	6	2
Stipa comata	0	0	0	0	0	0	0	0
Total Graminoid Cover	34	26	12	20	32	16	10	16
Total Vegetation Cover	56	54	50	50	70	60	52	58
Litter	44	44	42	0	0	0	42	34
Rock	0	0	0	0	0	0	0	0
Bare Ground	0	2	8	50	30	40	6	8

Horse Canyon Revegetation Area Percent Cover Data (Area 7)								
PLANT SPECIES			STAND					
	9	10	11	12	13	14	15	
Shrubs								
Atriplex canescens	0	10	8	6	0	0	0	
Artemisia tridentata tridentata	6	12	12	14	14	10	12	
Chrysothamnus nauseosus	0	0	2	0	0	0	0	
Chrysothamnus viscidiflorus	26	4	16	16	18	12	16	
Ceratoides lanata	0	0	0	2	0	0	0	
Total Shrubs Cover	32	26	38	38	32	22	28	
Forbs								
Machaeranthera canescens	0	0	0	0	0	0	0	
Penstemon palmeri	0	2	0	0	0	0	0	
Total Forb Cover	0	2	0	0	0	0	0	
Graminoid								
Agropyron spicatum	0	8	12	16	12	8	6	
Agropyron cristatum	0	0	0	0	0	0	0	
Bromus tectorum	0	0	0	0	0	0	0	
Elymus cinereus	0	0	0	0	2	0	0	
Oryzopsis hymenoides	0	6	2	0	4	6	2	
Poa species	0	0	0	0	0	0	0	
Sitanion hystrix	0	8	0	0	2	0	2	
Sporobolus cryptandrus	0	0	0	0	0	0	2	
Stipa comata	2	0	0	0	0	0	0	
Total Graminoid Cover	2	22	14	16	20	14	12	
Total Vegetation Cover	34	50	52	54	52	36	40	
Litter	60	44	38	44	32	40	40	
Rock	0	0	0	0	10	12	0	
Bare Ground	6	6	10	2	6	12	20	

Horse Canyon Revegetation Area Percent Cover Data (Area 11, 13 & 14)				
PLANT SPECIES	STATISTICS			
	Mean	Std	Relative Cover	Constancy
Shrubs				
Atriplex canescens	18.1	8.9	38.1	100
Artemisia tridentata tridentata	2.1	3.5	4.5	40
Chrysothamnus nauseosus	0.5	0.9	1.1	26.7
Chrysothamnus viscidiflorus	0.3	1	0.6	6.7
Total Shrubs Cover	21	8.5	44.3	
Forbs				
Melilotus officinalis	0.8	1.5	1.7	26.7
Total Forb Cover	0.8	1.5	1.7	
Graminoid				
Agropyron spicatum	23.7	12.7	49.9	100
Agropyron cristatum	0.4	0.8	0.8	20
Agropyron trachycaulum	0.4	0.8	0.8	20
Elymus cinereus	0.5	1.2	1.1	20
Oryzopsis hymenoides	0.4	0.8	0.8	20
Sitanion hystrix	0.3	0.7	0.6	13.3
Total Graminoid Cover	25.7	12.6	54	
Total Vegetation Cover	47.5	13.2		
Litter	44.7	15		
Rock	2.5	4.7		
Bare Ground	5.1	4.1		

Horse Canyon Revegetation Area Percent Cover Data (Area 15-17)				
PLANT SPECIES	STATISTICS			
	Mean	Std	Relative Cover	Constancy
Shrubs				
Atriplex canescens	15.2	7.3	28.4	100
Atriplex confertifolia	0.3	0.7	0.5	13.3
Atriplex corraguta	0.1	0.5	0.2	6.7
Artemisia tridentata tridentata	3.9	4.1	7.2	66.7
Chrysothamnus nauseosus	0.1	0.5	0.2	6.7
Chrysothamnus viscidiflorus	0.5	0.9	1	26.7
Ceratoides lanata	0.1	0.5	0.2	6.7
Sarcobatus vermiculatus	0.5	1.2	1	20
Total Shrubs Cover	20.7	5.9	38.7	
Forbs				
Melilotus officinalis	0.1	0.5	0.2	6.7
Total Forb Cover	0.1	0.5	0.2	
Graminoid				
Agropyron spicatum	30.4	10.6	56.7	100
Agropyron cristatum	0.1	0.5	0.2	6.7
Agropyron trachycaulum	0.1	0.5	0.2	6.7
Elymus cinereus	0.7	1.2	1.3	26.7
Oryzopsis hymenoides	0.7	1.2	1.3	26.7
Poa species	0.4	0.8	0.8	20
Sitanion hystrix	0.3	0.7	0.5	13.3
Total Graminoid Cover	32.7	10.3	61	
Total Vegetation Cover	53.5	10.8		
Litter	34.5	10.2		
Rock	4.3	6.7		
Bare Ground	7.6	6.4		

Horse Canyon Revegetation Area Percent Cover Data (Area 16)				
PLANT SPECIES	STATISTICS			
	Mean	Std	Relative Cover	Constancy
Shrubs				
Atriplex canescens	9.1	6.67	17	86.7
Atriplex confertifolia	1.1	2.1	2	26.7
Artemisia tridentata tridentata	1.2	2	2.3	33.3
Chrysothamnus nauseosus	0.9	2.1	1.7	26.7
Chrysothamnus viscidiflorus	1.5	2.2	2.8	46.7
Ceratoides lanata	0.5	1.4	1	13.3
Total Shrubs Cover	14.3	5.9	26.8	
Forbs				
Melilotus officinalis	0.8	2.6	1.5	13.3
Total Forb Cover	0.8	2.6	1.5	
Graminoid				
Agropyron spicatum	32.7	8	61.3	100
Agropyron cristatum	0.4	1.1	0.8	13.3
Agropyron trachycaulum	2	4.9	3.8	26.7
Elymus cinereus	1.3	1.8	2.5	46.7
Oryzopsis hymenoides	1.9	1.9	3.5	60
Total Graminoid Cover	38.3	7.8	71.9	
Total Vegetation Cover	53.4	6.8		
Litter	28.9	8.9		
Rock	3.7	4		
Bare Ground	15.3	6.4		

Horse Canyon Revegetation Area Percent Cover Data (Area 3)				
PLANT SPECIES	STATISTICS			
	Mean	Std	Relative Cover	Constancy
Shrubs				
Atriplex canescens	11.5	8.6	21	93.3
Artemisia tridentata tridentata	2.4	3.6	4.4	46.7
Chrysothamnus nauseosus	0.8	1.7	1.5	20
Chrysothamnus viscidiflorus	7.2	8.5	13.2	10
Total Shrubs Cover	21.9	8	40.1	
Forbs				
Melilotus officinalis	0.1	0.5	0.2	6.7
Penstemon palmeri	0.1	0.5	0.2	6.7
Total Forb Cover	0.2	0.7	0.4	
Graminoid				
Agropyron spicatum	26.9	10.5	49.3	100
Agropyron cristatum	0.3	1	0.5	6.7
Agropyron trachycaulum	2.5	3.3	4.6	60
Elymus giganteous	0.1	0.5	0.2	6.7
Elymus cinereus	2.5	3.1	4.6	53.3
Oryzopsis hymenoides	0.1	0.5	0.2	6.7
Total Graminoid Cover	32.4	13.2	59.4	
Total Vegetation Cover	54.5	14.2		
Litter	35.3	13		
Rock	3.5	5		
Bare Ground	6.7	4.7		

Horse Canyon Revegetation Area Percent Cover Data (Area 7)				
PLANT SPECIES	STATISTICS			
	Mean	Std	Relative Cover	Constancy
Shrubs				
Atriplex canescens	10.3	8.4	20.1	73.3
Artemisia tridentata tridentata	8.4	4	16.4	100
Chrysothamnus nauseosus	0.3	0.7	0.5	13.3
Chrysothamnus viscidiflorus	14	6	27.3	93.3
Ceratoides lanata	0.1	0.5	0.3	6.7
Total Shrubs Cover	33.1	7.1	64.6	
Forbs				
Machaeranthera canescens	0.1	0.5	0.3	6.7
Penstemon palmeri	0.1	0.5	0.2	6.7
Total Forb Cover	0.2	0.7	0.5	
Graminoid				
Agropyron spicatum	12.1	6.8	23.7	93.3
Agropyron cristatum	0.3	0.7	0.5	13.3
Bromus tectorum	0.1	0.5	0.3	6.7
Oryzopsis hymenoides	2.4	2.5	4.7	60
Poa species	0.4	1.1	0.8	13.3
Sitanion hystrix	0.8	2.1	1.6	30
Sporobolus cryptandrus	1.5	2.2	2.9	40
Stipa comata	0.3	0.7	0.5	13.3
Total Graminoid Cover	17.9	8.3	35	
Total Vegetation Cover	51.2	9.2		
Litter	41.6	7.3		
Rock	1.5	3.9		
Bare Ground	5.7	5.6		

Horse Canyon Revegetation Area Percent Cover Data (Area 6)				
PLANT SPECIES	STATISTICS			
	Mean	Std	Relative Cover	Constancy
Shrubs				
Atriplex canescens	10.5	6.3	22.4	100
Artemisia tridentata tridentata	2.3	1.5	4.8	80
Chrysothamnus nauseosus	0.3	0.7	0.6	20
Chrysothamnus viscidiflorus	2.9	4.1	6.2	53.3
Ceratoides lanata	0.7	1.5	1.4	20
Total Shrubs Cover	16.7	7.7	35.4	
Forbs				
Medicago sativa	0.1	0.5	0.3	6.7
Melilotus officinalis	0.1	0.5	0.3	6.7
Penstemon palmeri	0.3	0.7	0.6	13.3
Salsola kali	0.4	0.8	0.9	20
Total Forb Cover	0.9	1.5	2.1	
Graminoid				
Agropyron spicatum	27.2	11.1	58	100
Agropyron cristatum	0.1	0.5	0.3	6.7
Agropyron trachycaulum	0.4	0.8	0.9	20
Elymus cinereus	0.4	0.8	0.9	20
Oryzopsis hymenoides	1.3	1.8	2.8	40
Sitanion hystrix	0.1	0.5	0.3	6.7
Total Graminoid Cover	29.5	11.6	63.2	
Total Vegetation Cover	47.1	13.4		
Litter	33.7	7.3		
Rock	4.4	8		
Bare Ground	15.2	9		

Horse Canyon Revegetation Area
Percent Cover Data Combined Data
(Excluding Area 7 Data)

PLANT SPECIES	STATISTICS			
	Mean	Std	Relative Cover	Constancy
Shrubs				
Atriplex canescens	12.9	8.2	25.1	96
Atriplex confertifolia	0.3	1.2	0.5	8
Atriplex corraguta	<0.1	0.2	<0.1	1.3
Artemisia tridentata tridentata	2.4	3.2	4.7	53.3
Chrysothamnus nauseosus	0.6	1.3	1.1	20
Chrysothamnus viscidiflorus	2.5	5	4.8	40
Ceratoides lanata	0.3	1	0.5	8
Sarcobatus vermiculatus	0.1	0.6	0.2	4
Total Shrubs Cover	19.1	8.3	36.9	
Forbs				
Medicago sativa	<0.1	0.2	<0.1	1.3
Melilotus officinalis	0.4	1.4	0.8	12
Penstemon palmeri	0.1	0.4	0.2	4
Salsola kali	0.1	0.4	0.2	4
Total Forb Cover	0.6	1.5	1.2	
Graminoid				
Agropyron spicatum	28.2	10.8	54.9	100
Agropyron cristatum	0.3	0.8	0.5	10.7
Agropyron trachycaulum	1.1	2.8	2.1	26.7
Elymus cinereus	1.1	2	2.2	33.3
Elymus giganteous	<0.1	0.2	<0.1	1.33
Oryzopsis hymenoides	0.9	1.5	1.7	30.7
Poa species	<0.1	0.4	0.2	4
Sitanion hystrix	0.1	0.5	0.3	6.7
Total Graminoid Cover	31.7	11.7	61.9	
Total Vegetation Cover	51.4	12.1		
Litter	35.4	12.1		
Rock	3.7	5.8		
Bare Ground	10	7.6		

APPENDIX IV

Horse Canyon Reference Area
Percent Cover Data

Horse Canyon Reference Area Percent Cover Data								
PLANT SPECIES	STAND							
	1	2	3	4	5	6	7	8
Trees								
Juniperus osteoperma	28	4	16	0	2	20	44	24
Pinus edulis	0	0	0	0	0	0	0	28
Total Tree Cover	28	4	16	0	2	20	44	52
Shrubs and Subshrubs								
Atriplex canescens	0	0	0	0	0	0	0	0
Ephedra viridis	2	2	0	0	0	0	0	0
Xanthocephalum sarothra	0	0	4	10	2	2	2	0
Total Shrubs/Subshrubs cover	2	2	4	10	2	2	2	0
Forbs								
Hackelia spp.	0	0	0	0	0	0	0	0
Phlox spp.	2	0	0	0	0	0	0	0
Astragalus spp.	0	0	0	0	0	0	0	0
Haplopappus acaulis	0	0	0	0	0	0	0	0
Total Forb Cover	2	0	0	0	0	0	0	0
Graminoid								
Boutelous gracilis	0	0	0	4	0	2	0	0
Elymus salinus	12	26	12	14	6	4	2	2
Hilaria jamesii	0	2	0	0	2	0	0	0
Oryzopsis hymenoides	0	0	4	12	0	0	0	0
Poa species	2	0	0	0	0	0	0	0
Stipa comata	0	0	0	0	2	0	0	0
Total Graminoid Cover	14	28	16	30	10	6	2	2
Echinocereus trilochidiatus	0	0	0	0	0	0	0	0
Total Succulent Cover	0	0	0	0	0	0	0	0
Total Vegetation Cover	46	34	36	40	14	28	48	54
Litter	10	2	14	10	2	18	12	6
Cryptogamic soil	10	28	16	6	2	12	6	4
Rock	22	8	24	12	50	24	16	30
Bare Ground	12	28	10	32	32	18	18	6

Horse Canyon Reference Area Percent Cover Data								
PLANT SPECIES			STAND					
	9	10	11	12	13	14	15	16
Trees								
Juniperus osteoperma	6	38	8	24	34	26	16	0
Pinus edulis	0	0	0	0	0	0	0	0
Total Tree Cover	6	38	8	24	34	26	16	0
Shrubs and Subshrubs								
Atriplex canescens	0	0	0	0	0	0	0	0
Ephedra viridis	0	0	0	0	0	0	0	0
Xanthocephalum sarothra	2	0	4	2	0	2	0	16
Total Shrubs/Subshrubs cover	2	0	4	2	0	2	0	16
Forbs								
Hackelia spp.	0	0	0	0	0	0	0	0
Phlox spp.	0	0	0	0	0	0	0	0
Astragalus spp.	0	0	0	0	0	0	0	0
Haplopappus acaulis	0	0	0	0	0	0	0	0
Total Forb Cover	0	0	0	0	0	0	0	0
Graminoid								
Boutelous gracilis	0	0	10	0	0	0	0	0
Elymus salinus	14	20	12	22	2	16	16	4
Hilaria jamesii	2	0	0	2	0	0	0	0
Oryzopsis hymenoides	6	0	0	0	0	0	0	6
Poa species	0	0	0	0	0	0	0	0
Stipa comata	0	0	0	0	0	0	0	0
Total Graminoid Cover	22	20	22	24	2	16	16	10
Echinocereus trilochidiatus	0	0	0	2	0	0	0	2
Total Succulent Cover	0	0	0	2	0	0	0	2
Total Vegetation Cover	30	58	34	52	36	44	32	28
Litter	22	20	12	10	12	10	16	24
Cryptogamic soil	6	2	10	2	12	2	4	10
Rock	18	16	26	20	22	24	34	22
Bare Ground	24	4	18	16	18	20	14	16

Horse Canyon Reference Area Percent Cover Data								
PLANT SPECIES			STAND					
	17	18	19	20	21	22	23	24
Trees								
Juniperus osteoperma	4	10	34	26	12	10	8	4
Pinus edulis	0	0	0	18	0	8	0	8
Total Tree Cover	4	10	34	44	12	18	8	12
Shrubs and Subshrubs								
Atriplex canescens	4	0	0	0	0	0	0	0
Ephedra viridis	0	0	0	0	0	0	0	0
Xanthocephalum sarothra	2	0	0	0	0	0	0	0
Total Shrubs/Subshrubs cover	6	0	0	0	0	0	0	0
Forbs								
Hackelia spp.	0	0	0	0	0	0	0	0
Phlox spp.	0	0	2	0	2	4	0	0
Astragalus spp.	0	0	0	0	0	0	0	4
Haplopappus acaulis	0	0	0	0	0	6	0	0
Total Forb Cover	0	0	2	0	2	10	0	4
Graminoid								
Boutelous gracilis	0	6	6	0	0	0	0	0
Elymus salinus	4	28	14	0	10	4	6	10
Hilaria jamesii	2	0	0	0	0	0	4	0
Oryzopsis hymenoides	6	0	0	0	0	2	2	0
Poa species	0	0	0	0	0	0	0	0
Stipa comata	0	0	0	0	0	0	0	0
Total Graminoid Cover	12	34	20	0	10	6	12	10
Echinocereus trilochidiatus	0	0	0	0	0	0	0	0
Total Succulent Cover	0	0	0	0	0	0	0	0
Total Vegetation Cover	22	44	56	44	24	34	20	26
Litter	10	20	10	8	6	18	2	20
Cryptogamic soil	8	6	14	2	2	0	6	2
Rock	34	20	12	38	54	32	42	44
Bare Ground	26	10	8	8	14	16	30	8

Horse Canyon Reference Area Percent Cover Data								
PLANT SPECIES			STAND					
	25	26	27	28	29	30	31	
Trees								
Juniperus osteoperma	28	26	32	46	10	20	8	
Pinus edulis	0	0	0	0	0	10	0	
Total Tree Cover	28	26	32	46	10	30	8	
Shrubs and Subshrubs								
Atriplex canescens	0	0	0	0	0	0	0	
Ephedra viridis	0	0	0	0	0	0	0	
Xanthocephalum sarothra	0	2	0	2	2	0	0	
Total Shrubs/Subshrubs cover	0	2	0	2	2	0	0	
Forbs								
Hackelia spp.	0	0	0	0	2	0	2	
Phlox spp.	0	0	0	0	0	0	0	
Astragalus spp.	0	0	0	0	0	0	0	
Haplopappus acaulis	0	0	0	0	0	0	0	
Total Forb Cover	0	0	0	0	2	0	2	
Graminoid								
Boutelous gracilis	2	0	0	4	0	0	2	
Elymus saljnus	6	8	8	8	10	2	2	
Hilaria jamesii	0	0	0	0	0	0	0	
Oryzopsis hymenoides	4	2	0	2	0	0	0	
Poa species	0	0	0	0	0	0	0	
Stipa comata	0	0	0	0	0	0	0	
Total Graminoid Cover	12	10	8	14	10	2	4	
Echinocereus trilochidiatus	0	0	0	0	0	0	0	0
Total Succulent Cover	0	0	0	0	0	0	0	0
Total Vegetation Cover	40	38	40	62	24	32	14	
Litter	14	6	12	14	14	28	8	
Cryptogamic soil	10	8	0	4	24	2	20	
Rock	14	28	38	12	24	24	50	
Bare Ground	22	20	10	8	14	14	8	

Horse Canyon Reference Area Percent Cover Data				
PLANT SPECIES	STATISTICS			
	Mean	Std	Relative Cover	Constancy
Trees				
Juniperus osteosperma	17.9	13.0	49.6	90.3
Pinus edulis	2.5	6.6	6.8	12.9
Total Tree Cover	20.4	14.9	56.4	
Shrubs				
Atriplex canescens	0.1	0.7	0.4	3.2
Ephedra viridis	0.1	0.5	0.4	6.5
Xanthocephalum sarothrae	1.7	3.3	4.8	45.2
Total Shrubs Cover	1.9	3.4	5.6	
Forbs				
Astragalus spp.	0.1	0.7	0.4	3.2
Hackelia spp.	0.3	1.1	0.7	6.5
Haplopappus acaulis	0.2	1.1	0.5	3.2
Phlox spp.	0.1	0.4	0.2	3.2
Total Forb Cover	0.7	2.0	1.8	
Graminoid				
Bouteloua gracilis	1.2	2.4	3.2	22.6
Elymus salinus	9.8	7.3	27.1	96.8
Hilaria jamesii	0.5	1.0	1.2	19.4
Oryzopsis hymenoides	1.5	2.8	4.1	32.3
Poa species	0.1	0.4	0.2	3.2
Stipa comata	0.1	0.4	0.2	3.2
Total Graminoid Cover	13.2	8.7	36.0	
Succulents				
Echinocereus trilochiditus	0.1	0.5	0.4	3.2
Total Succulent Cover	0.1	0.5	0.4	3.2
Total Vegetation Cover	36.3	12.4		
Cryptogamic soil	7.7	6.9		
Litter	12.5	6.3		
Rock	26.9	12.1		
Bare Ground	16.2	7.8		

APPENDIX V

Horse Canyon Revegetation Areas
Shrub Density Data

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 15-17

PLANT SPECIES			STAND			
	1	2	3	4	5	6
Shrubs and Subshrubs						
Atriplex canescens	915	719	5075	1481	3637	4639
Atriplex confertifolia	0	0	0	0	0	65
Atriplex corrugata	0	0	0	0	0	0
Artemisia nova	0	0	0	0	0	0
Artemisia tridentata tridentata	1307	1764	588	871	1851	3027
Chrysothamnus nauseosus	87	65	22	87	0	0
Chrysothamnus viscidiflorus	436	283	22	370	109	0
Ceratoides lanata	65	65	131	174	305	370
Sarcobatus vermiculatus	109	131	44	1764	22	131
Xanthocephalum sarothrae	0	0	0	0	0	0
Total Shrubs	2919	3027	5882	4747	5924	8232

	7	8	9	10	11	12
Shrubs and Subshrubs						
Atriplex canescens	2723	937	1045	2418	2047	1154
Atriplex confertifolia	22	0	87	0	0	0
Atriplex corrugata	0	0	0	0	0	0
Artemisia nova	0	22	0	0	0	0
Artemisia tridentata tridentata	3746	2243	2853	2788	6447	893
Chrysothamnus nauseosus	109	22	261	0	44	44
Chrysothamnus viscidiflorus	675	196	436	109	218	196
Ceretoides lanata	588	348	65	131	152	44
Sarcobatus vermiculatus	697	0	240	0	109	0
Xanthocephalum sarothrae	0	0	22	0	65	44
Total Shrubs	8560	3768	5009	5446	9082	2375

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 15-17

PLANT SPECIES	STAND			STATISTICS	
	13	14	15	Mean	Std
Shrubs and Subshrubs					
Atriplex canescens	2810	2069	2352	2268.0	1345.6
Atriplex confertifolia	65	0	0	16.0	30.3
Atriplex corrugata	131	44	0	11.6	34.9
Artemisia nova	0	0	0	1.5	5.7
Artemisia tridentata tridentata	4443	980	261	2270.9	1674.9
Chrysothamnus nauseosus	0	0	0	47.9	70.4
Chrysothamnus viscidiflorus	44	87	43	214.9	192.8
Ceratoides lanata	240	65	65	183.0	151.8
Sarcobatus vermiculatus	87	22	0	223.6	460.9
Xanthocephalum sarothrae	22	0	0	10.1	20.0
Total Shrubs	7842	3267	2721	5247.5	2293.9

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 11, 13 & 14

PLANT SPECIES	STAND					
	1	2	3	4	5	6
Shrubs and Subshrubs						
Atriplex canescens	2875	1742	1024	3354	3833	3964
Artemisia tridentata tridentata	3267	1241	218	1307	2047	9322
Chrysothamnus nauseosus	22	22	109	0	0	240
Chrysothamnus viscidiflorus	196	22	22	22	22	370
Ceratoides lanata	196	240	22	152	152	632
Sarcobatus vermiculatus	0	0	0	196	0	0
Xanthocephalum sarothrae	0	22	0	0	0	0
Total Shrubs	6556	3289	1395	5031	6054	14528
	7	8	9	10	11	12
Shrubs and Subshrubs						
Atriplex canescens	1133	2069	2069	1503	457	1590
Artemisia tridentata tridentata	545	2069	893	1111	196	1590
Chrysothamnus nauseosus	22	87	65	196	0	65
Chrysothamnus viscidiflorus	109	65	0	22	0	22
Ceretoides lánata	152	0	0	22	22	22
Sarcobatus vermiculatus	0	0	0	22	0	44
Xanthocephalum sarothrae	0	0	22	0	0	0
Total Shrubs	1961	4290	3049	2876	675	3333

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 11, 13 & 14

PLANT SPECIES	STAND			STATISTICS	
	13	14	15	Mean	Std
Shrubs and Subshrubs					
Atriplex canescens	1786	2069	1938	2111.1	993.6
Artemisia tridentata tridentata	1241	588	523	1743.2	2248.6
Chrysothamnus nauseosus	44	0	22	59.5	73.0
Chrysothamnus viscidiflorus	109	22	65	73.4	98.2
Ceratoides lanata	22	44	22	113.3	164.0
Sarcobatus vermiculatus	87	261	0	40.7	81.0
Xanthocephalum sarothrae	0	0	0	2.8	7.6
Total Shrubs	3289	2984	2570	4144.0	3217.8

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 16

PLANT SPECIES	STAND					
	1	2	3	4	5	6
Shrubs and Subshrubs						
Atriplex canescens	1176	3485	2178	2222	370	457
Atriplex confertifolia	0	109	87	152	174	545
Atriplex corrugata	0	22	0	0	0	0
Artemisia tridentata tridentata	327	3528	697	2897	958	0
Chrysothamnus nauseosus	283	0	0	958	915	1568
Chrysothamnus viscidiflorus	218	22	44	1721	762	697
Ceratoides lanata	22	87	44	370	87	152
Xanthocephalum sarothrae	0	0	0	0	0	0
Total Shrubs	2026	7253	3050	8320	3266	3419
	7	8	9	10	11	12
Shrubs and Subshrubs						
Atriplex canescens	3855	2984	3267	1960	2004	1917
Atriplex confertifolia	0	65	44	131	588	828
Atriplex corrugata	0	0	0	0	0	0
Artemisia tridentata tridentata	5728	2287	2439	3115	715	457
Chrysothamnus nauseosus	44	87	152	44	327	414
Chrysothamnus viscidiflorus	261	261	348	523	1176	544
Ceretoides lanata	762	283	893	566	152	305
Xanthocephalum sarothrae	22	0	0	0	0	0
Total Shrubs	10672	5967	7143	6339	4962	4465

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 16

PLANT SPECIES	STAND			STATISTICS	
	13	14	15	Mean	Std
Shrubs and Subshrubs					
Atriplex canescens	1721	849	44	1899.2	1168.1
Atriplex confertifolia	566	414	370	271.6	260.1
Atriplex corrugata	0	0	0	1.5	5.7
Artemisia tridentata tridentata	109	22	0	1565.3	1697.8
Chrysothamnus nauseosus	1481	283	1481	535.8	583.7
Chrysothamnus viscidiflorus	632	370	849	561.9	448.0
Ceratoides lanata	196	87	174	278.8	265.1
Xanthocephalum sarothrae	0	0	0	1.5	5.7
Total Shrubs	4705	2025	2918	5115.6	2744.3

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 3

PLANT SPECIES	STAND					
	1	2	3	4	5	6
Shrubs and Subshrubs						
Atriplex canescens	283	937	1285	1089	1154	479
Artemisia nova	0	0	22	0	0	0
Artemisia tridentata tridentata	479	1503	436	1394	2156	240
Chrysothamnus nauseosus	44	44	87	218	349	196
Chrysothamnus viscidiflorus	22	0	87	218	501	1764
Ceratoides lanata	0	0	0	22	0	0
Total Shrubs	828	2484	1917	2941	4160	2679

	7	8	9	10	11	12
Shrubs and Subshrubs						
Atriplex canescens	1154	305	653	327	719	588
Artemisia nova	0	0	0	0	0	0
Artemisia tridentata tridentata	1089	153	131	349	153	240
Chrysothamnus nauseosus	174	174	65	22	65	22
Chrysothamnus viscidiflorus	1372	1242	1982	1895	436	523
Ceretoides lanata	0	0	0	0	0	0
Total Shrubs	3789	1874	2831	2593	1373	1373

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 3

PLANT SPECIES	STAND			STATISTICS	
	13	14	15	Mean	Std
Shrubs and Subshrubs					
Atriplex canescens	2309	1546	2243	1004.8	643.0
Artemisia nova	0	0	0	1.5	5.7
Artemisia tridentata tridentata	719	2134	2047	881.4	772.8
Chrysothamnus nauseosus	44	65	65	108.9	93.2
Chrysothamnus viscidiflorus	174	218	523	730.4	715.8
Ceratoides lanata	65	87	87	17.4	33.1
Total Shrubs	3311	4050	4965	2744.4	1169.2

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 6

PLANT SPECIES	STAND					
	1	2	3	4	5	6
Shrubs and Subshrubs						
Atriplex canescens	1721	1525	958	1830	1655	327
Artemisia nova	0	44	65	44	0	44
Artemisia tridentata tridentata	3964	2069	2243	1786	1590	1525
Chrysothamnus nauseosus	65	131	22	87	0	44
Chrysothamnus viscidiflorus	348	566	479	1307	893	1045
Ceratoides lanata	1525	327	3354	1133	741	2352
Sarcobatus vermiculatus	0	0	0	0	0	0
Xanthocephalum sarothrae	65	196	65	0	0	44
Total Shrubs	7688	4858	7186	6187	4879	5381

	7	8	9	10	11	12
Shrubs and Subshrubs						
Atriplex canescens	1568	1721	2222	1873	2047	1655
Artemisia nova	87	22	0	0	22	0
Artemisia tridentata tridentata	2265	1350	4291	1481	3681	1721
Chrysothamnus nauseosus	152	22	261	22	131	0
Chrysothamnus viscidiflorus	240	370	958	174	1938	1481
Ceretoides lanata	5140	3637	196	392	131	152
Sarcobatus vermiculatus	22	22	0	0	0	0
Xanthocephalum sarothrae	0	0	22	0	0	0
Total Shrubs	9474	7144	7950	3942	7950	5009

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 6

PLANT SPECIES	STAND			STATISTICS	
	13	14	15	Mean	Std
Shrubs and Subshrubs					
Atriplex canescens	2352	2592	2897	1796.1	623.6
Artemisia nova	0	0	0	21.9	28.5
Artemisia tridentata tridentata	1634	1263	1721	2172.2	985.1
Chrysothamnus nauseosus	44	22	0	66.8	73.8
Chrysothamnus viscidiflorus	1634	240	152	788.4	584.8
Ceratoides lanata	196	152	174	1306.8	1590.2
Sarcobatus vermiculatus	0	0	0	2.9	7.7
Xanthocephalum sarothrae	0	0	0	26.1	52.8
Total Shrubs	5860	4269	4944	6181.2	1626.5

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 7

PLANT SPECIES			STAND			
	1	2	3	4	5	6
Shrubs and Subshrubs						
Atriplex canescens	2026	1067	1416	1634	1634	1568
Atriplex confertifolia	0	0	0	0	0	0
Artemisia nova	0	0	0	0	0	0
Artemisia tridentata tridentata	4356	3202	4704	4922	4704	4269
Chrysothamnus nauseosus	22	87	0	0	44	22
Chrysothamnus viscidiflorus	784	1568	1002	1024	1394	1503
Ceratoides lanata	0	0	44	65	44	65
Xanthocephalum sarothrae	0	174	0	0	0	0
Total Shrubs	7188	5924	7166	7645	7820	7427
	7	8	9	10	11	12
Shrubs and Subshrubs						
Atriplex canescens	1024	2004	1045	1394	784	726
Atriplex confertifolia	0	0	0	22	0	0
Artemisia nova	0	0	0	22	22	87
Artemisia tridentata tridentata	7253	6098	7166	11434	14941	16945
Chrysothamnus nauseosus	324	283	283	109	305	261
Chrysothamnus viscidiflorus	1568	1786	2113	1590	1546	1525
Ceretoides lanata	44	0	0	0	0	22
Xanthocephalum sarothrae	109	22	261	348	370	44
Total Shrubs	10325	10193	10868	14919	17986	19610

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Area 7

PLANT SPECIES	STAND			STATISTICS	
	13	14	15	Mean	Std
Shrubs and Subshrubs					
Atriplex canescens	937	370	414	1205.2	516.6
Atriplex confertifolia	0	0	0	2.90	7.6
Artemisia nova	0	65	0	13.1	27.0
Artemisia tridentata tridentata	16531	18557	18644	9583.2	5892.1
Chrysothamnus nauseosus	436	327	87	172.8	148.1
Chrysothamnus viscidiflorus	2831	2047	3942	1748.2	783.2
Ceratoides lanata	44	0	22		
Xanthocephalum sarothrae	305	0	22	23.2	25.3
Total Shrubs	21084	22041	23915		6215.8

Horse Canyon Revegetation Area
Density Data for Shrubs/Subshrubs Plants per Acre
Combined Data (excluding Area 7)

PLANT SPECIES	STATISTICS	
	Mean	Std
Shrubs and Subshrubs		
Atriplex canescens	1816.0	1064.6
Atriplex confertifolia	57.5	156.8
Atriplex corrugata	2.6	15.9
Artemisia nova	109.1	15.5
Artemisia tridentata tridentata	1726.7	1606.1
Chrysothamnus nauseosus	163.8	323.4
Chrysothamnus viscidiflorus	466.8	541.0
Ceratoides lanata	369.2	842.7
Sarcobatus vermiculatus	53.5	221.5
Xanthocephalum sarothrae	7.8	26.6
Total Shrubs	4773.0	2549.6

Appendix III-1-8

Reclamation Certification

UtahAmerican Energy, Inc.

Horse Canyon Mine
ACT/007/013

Re: Phase III Bond Release Horse Canyon Mine ACT 007/013

I hereby certify to the best of my information and belief all the information contained in this request for bond release is true and correct and that all applicable reclamation activities have been accomplished in accordance with the requirement of the Act, the regulatory program and the approved reclamation plan. The area of the channel repair (.49 acres) is not included in this application.

R. Jay Marshall

R. Jay Marshall

Sign Name, Position, Date

Subscribed and sworn to before me this 5TH day of November, 2008

Linda Kerns

Notary Public

Notary Public
LINDA KERNS
345 N. 700 E.
Price, UT 84501
My Commission Expires
April, 6, 2009
State of Utah

My Commission Expires: April 6, 2009
Attest: State of Utah
County of Carbon

P.O. Box 986 Price, Utah 84501 Telephone (435) 637 5032 x 724 Fax (435) 613 0805 email: jmarshall@coalsource.com