# Wildlife Habitat Improvement of the Parkinson Ranch,

# Milnesand, New Mexico



## Landowner Incentive Program, New Mexico Department of Game and Fish

**Parkinson Ranch** 

In cooperation with

Natural Heritage New Mexico Division, Museum of Southwestern Biology

**University of New Mexico** 

2009

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# Wildlife Habitat Improvement of the Parkinson Ranch, Milnesand, New Mexico

Final Report<sup>1</sup>

Wiley Teel<sup>2</sup>, Esteban Muldavin<sup>3</sup>, Kristine Johnson, Teri Neville, Yvonne Chauvin, and Paul Neville<sup>4</sup>

February 2010

#### Introduction

The Landowner Incentive Program (LIP) is a U.S. Fish and Wildlife Service program that provides funds to the New Mexico Department of Game and Fish to enter into agreements with private landowners for the purpose of protecting and restoring habitats on private lands to benefit federally listed, proposed or candidate species or other species determined to be at-risk. Elton Parkinson, a landowner in Roosevelt County, was awarded a contract to improve wildlife habitat in the native prairie and sandhill ecosystems of his Parkinson Ranch (hereinafter referred to as the "ranch"). Mr. Parkinson entered into a cooperative agreement with Natural Heritage New Mexico to conduct biological inventories, monitoring, and analyses of invasive species treatments and infrastructure improvements for managing wildlife.

A number of improvements were made to the ranch, including the removal of approximately 267 ha (660 ac) of honey mesquite (*Prosopis glandulosa*) from the dominant Great Plains Shortgrass Prairie vegetation community, implementation of deferred-grazing regimes to provide residual grass cover and improved habitat for the lesser prairie-chicken (*Tympanuchus pallidicinctus*), and new infrastructure to avoid conflicts with seasonal habitat use by the lesser prairie-chicken.

# **Parkinson Ranch History**

T.E. Parkinson, known as Elton, and his wife Ruby are both descendants from some of the earliest homesteaders of Milnesand, New Mexico (Figure 1). Over the years they have increased their lands to piece together what is known today as the Parkinson Ranch (Figure 2). Prior to the federal government opening up the Milnesand area to homesteading, the ranch was part of the extensive D-Z Ranch. Elton's grandfather, Thomas Parkinson, homesteaded approximately 160 acres in Section 26, T8, R35 in 1915. Much of the area had been previously homesteaded, and the condition of the acquired properties

<sup>&</sup>lt;sup>1</sup> Final report submitted in fulfillment of Landowner Incentive Program Cooperative Agreement #07-516-0000-I5T104.

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<sup>&</sup>lt;sup>4</sup> Paul Neville, Remote Sensing Specialist, Earth Data Analysis Center, University of New Mexico.



FIGURE 1. PARKINSON FAMILY, OWNERS OF THE PARKINSON RANCH. LEFT TO RIGHT: BARBRA PARKINSON TEEL, ELTON PARKINSON, RUBY PARKINSON, AUSTIN PHILLIPS, WILEY TEEL (PROJECT MANAGER), VIVIAN PARKINSON, AND JERRY PARKINSON.

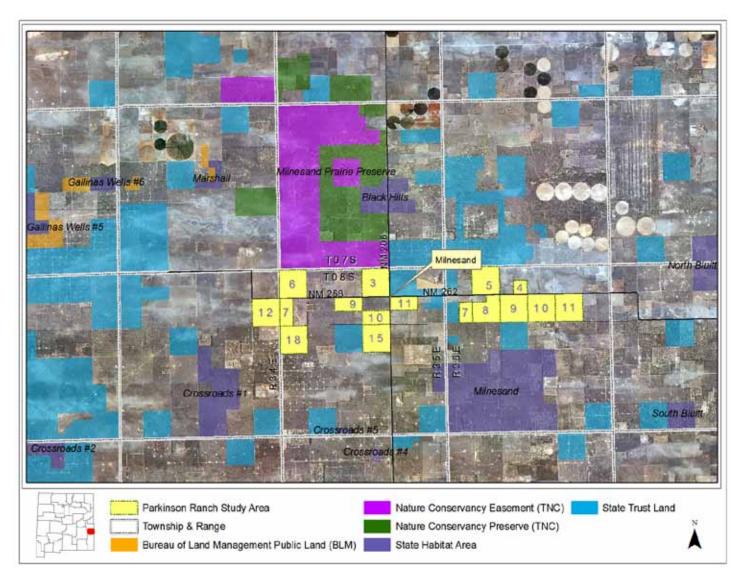


FIGURE 2. STUDY AREA: PARKINSON RANCH, NEW MEXICO.

varied greatly. Homesteaders were required to improve the land and many began with small orchards and gardens to provide food for themselves while clearing more extensive areas to provide forage for farm animals. The remnants of a small orchard, as well as an air field can be found within the Parkinson Ranch today.

The original landscape of the Milnesand area was covered by undulating sandsheets and dunal landforms dominated by either sand shinnery oak (*Quercus havardii*) with mid- and tall-grasses of little bluestem (*Schizachorium scoparium*) and sand bluestem (*Andropogon hallii*) or shinnery oak associated with shortgrasses such as hairy grama (*Bouteloua hirsuta*). Some native animals commonly found in these landscapes were the lesser prairie-chicken (hereafter referred to as LPCH), scaled quail (*Callipepla squamata*), northern bobwhite (*Colinus virginianus*) and pronghorn antelope (*Antilocapra americana*). Although common now, the mule deer (*Odocoileus hemionus*) began to show up in the area in the 1960s. While much of this landscape was covered in sandsheets, depressions comprised of loamy soils, directly overlying the Ogallala Formation, were and are the preferred lands of the early homesteaders and ranchers. These lands, commonly referred to as "tight lands" by the locals, were dominated by shortgrasses such as buffalo grass (*Buchloe dactoides*) and grama grasses (*Bouteloua* spp.), the preferred forage for cattle. They are also home to the black-tailed prairie dog (*Cynomys ludoviciana*).

The process of clearing the land, which began with the earliest homesteaders and continues to this day, has left its imprint, resulting in the diverse landscape evident today. All sandhill landscapes within the Milnesand area that lack shin-oak have been modified by tilling, cropping, or grazing for over 100 years (Elton Parkinson, pers. comm.). In areas where shin-oak has been removed, the landscape was probably subjected to a variety of manipulations and invasive recruitment over time, including: grubbing (manual and mechanical removal of vegetation), cropping (agriculture such as corn, cotton, or orchards), seeding of native or non-native grasses, grazing, leaving fallow, enlistment into the federal Conservation Reserve Program (CRP) and its associated treatments, invasion of mesquite, subsequent chemical treatment of mesquite, shin-oak chemical treatment, and then returning to any or all of the above.

Cycles of drought and summer rains have an equally profound effect on the landscape. While Milnesand has been experiencing drought conditions for a number of years, a rain event in the summer (June-August) can produce sufficient ground cover to stabilize the sandsheets and produce sufficient forage for cattle. Long-term effects of drought and over-stocking on water-deficient landscapes could propel the community into another dust bowl if it were not for the U.S. Department of Agriculture (USDA) programs beginning with the Soil Bank up to the present-day CRP, which has been embraced by the local community. Most of the Milnesand community still consists of descendants that suffered the deleterious effects of the 1930s Dust Bowl, and there exists a collective memory of that event among them.

In an attempt to track some of the land use changes over time within the ranch, Natural Heritage New Mexico (NHNM) and Earth Data Analysis Center (EDAC) scanned and georectified aerial photos from

1949 and 1964 (Figure 3). Our primary objective was to identify the undisturbed natural landscapes from the earliest time possible and track modifications of the landscape. As early as 1949, 1016 ha

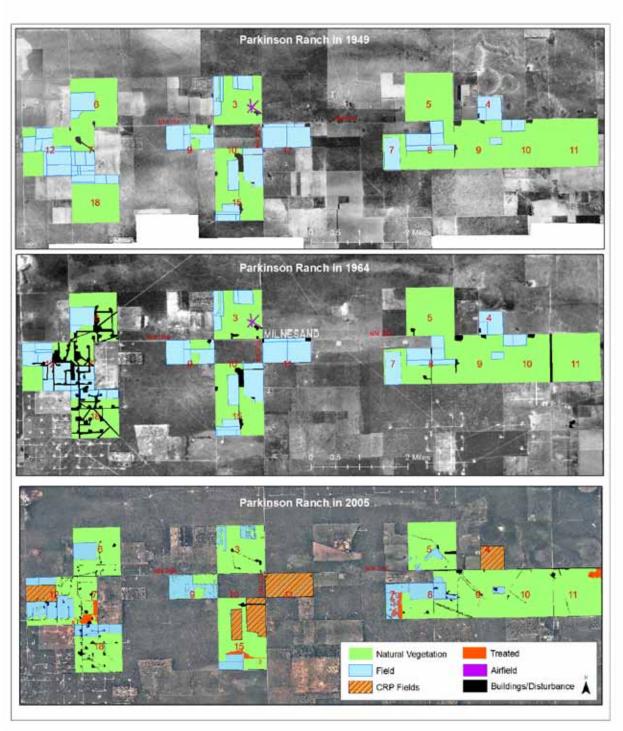


FIGURE 3. CHANGES IN LANDUSE ON THE PARKINSON RANCH, NM BETWEEN 1949 AND 2005.

(2510 ac, 30% of the ranch) had already been converted to fields. By 1964, oil exploration occurred on Sections 6, 7, 12, and 18 of T8S, R35E, with no identifiable conversion of additional lands into fields. By 1964 34% of the Parkinson Ranch had been converted from natural vegetation. By 2005, with higher-resolution imagery and discussions with E. Parkinson, we determined which of the fields were in the CRP, but no records exist as to when individual fields were converted or if they had been planted with native or non-native seeds (*see* Land Cover Mapping for further discussion on landcover). Additionally, we were able to identify areas through field surveys where chemical treatments had occurred to control both shin-oak and honey mesquite (*Prosopis glandulosa*).

# **Study Area**

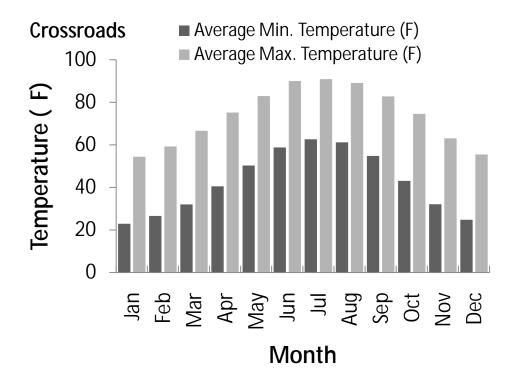
The Parkinson Ranch nearly surrounds the town of Milnesand at the crossroads of State Highways 262 and 206, east of the Pecos River and approximately 37 mi south of Portales (Figure 2). The study area portion of the ranch covers approximately 3222 ha (7961 ac) and lies within Township 8 South, Range 35 and 36 East covering approximately 12 sections. The ranch lies within the Llano Estacado portion of the Great Plains physiographic unit (Lotspeich and Everhart 1962). The deep, well-drained sandhills of this area were derived from the ancestral Pecos River reworked by wind and deposited within the Portales Valley (McLemore 1998). Blowout cells throughout the sandhills expose the Ilano soils of the Ogallala Formation. Privately owned lands, followed by New Mexico State Lands, occupy the greatest percentage of the land surrounding the ranch. However, contiguous and in close proximity to the ranch are areas specifically managed for lesser prairie-chicken habitat, including The Nature Conservancy's Milnesand Prairie Preserve to the north, the Conservancy's recent purchase of the Ainsworth Ranch to the south and west, and scattered State Habitat Areas (managed by the New Mexico Department of Game and Fish), the largest being the Milnesand Lesser Prairie-chicken Area to the south.

#### **Climate**

For describing climatic patterns there were two weather station records available. Crossroads, NM (-103.34028, 33.51333, 4138 ft) was the closest climate station with a long-term record (1929-2001) and is located approximately 8 mi (12.9 km) south of the ranch. But its closure in 2001, the station at Portales (-103.35194, 34.17417, 4010 ft), approximately 37 mi (59.5 km) to the north was used to identify more recent trends (1905-2009).

Crossroads had moderately high temperatures during the summer (June through August) with an average maximum temperature of 90°F (32.2°C) and an average low of 60°F (15.56°C) (Figure 4). July tended to be the warmest month. Winter average high was 56°F (13.33°C) and an average low of 25°F (-3.89°C). January is typically the coldest month.

With respect to precipitation, Lotspeich and Everhart (1962) reported that 70-80% of total precipitation falls between May and October across the Llano Estacado. This pattern holds for Portales (75%) but for Crossroads it was only 54%. Overall, average annual precipitation at Crossroads was 15.6 in. (39.62 cm) while that at Portales was 16.9 in (42.9 cm). At Crossroads the highest single-day event was in July of 1991 with 4.46 in. (11.3 cm) and the largest annual total of 41.0 in. (104.4 cm) in 1941. As was typical



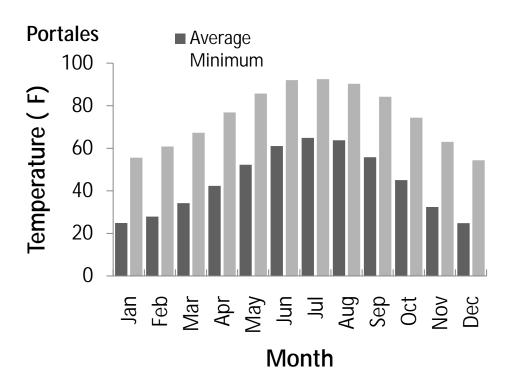


FIGURE 4. AVERAGE MONTHLY TEMPERATURE FOR CROSSROADS AND PORTALES, NEW MEXICO.

for the region, lowest annual precipitation was in 1956 with 7.57 in. (19.23 cm). However, in 2003 Portales recorded only 7.66 in. (19.46 cm). Crossroads was not operating at this time, but we assume Milnesand suffered an equally dry year.

Lotspeich and Everhart (1962) report rainfall varies widely across the Llano from year-to-year, and this was evident over the three years of the study (Figure 5; Table XX). In the first year of sampling, the previous winter precipitation was nearly twice the norm at Portales, while the summer was normal. In the following two years precipitation was below normal, particularly in the summer of 2008. In addition, in 2007 summer precipitation peaked in early summer while in 2008 and 2009 it peaked in July. In all years, precipitation dropped off was below average in August. Rainfall is not only highly variable across the region but also within the ranch. Many small thunderstorms with accumulations of a few inches can occur on portions of the ranch while other areas are left dry.

Wind speeds can exceed 60 mph with the greatest speeds occurring in the spring. Winds diminish in the late summer and increase again toward winter. Numerous and high winds, combined with low precipitation and moderately high temperatures, increase rates of evaporation. Total evaporation at Portales from April through September is generally 63.39 in (161.01 cm) (Lotspeich and Everhart 1962).

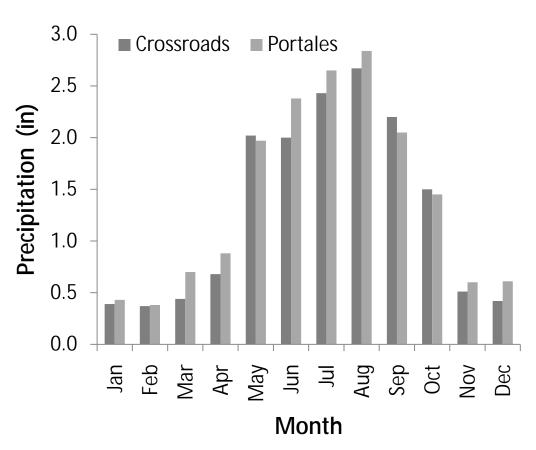


FIGURE 5. AVERAGE MONTHLY PRECIPITATION FOR CROSSROADS AND PORTALES, NEW MEXICO.

# Range Habitat Improvement

Prior to initiating habitat improvements, Parkinson Ranch contracted with Don Clifton to complete a cultural survey that detected no significant cultural artifacts. The ranch had specific habitat improvement goals, which included:

- 1. Developing a deferred-grazing strategy and supporting infrastructure within lesser prairiechicken habitat near an established lek (Section 10, T8S R36E);
- 2. Installing a livestock tank and pipeline to divert grazing pressures from lesser prairie-chicken habitat:
- 3. Removing honey mesquite from native pastures, thereby improving black-tailed prairie dog and grassland bird habitat;
- 4. Supporting monitoring efforts of NHNM by rotating grazing and installing temporary fencing within mesquite-treated and untreated areas.

### **Infrastructure Improvements**

A mile of four-wire fence was erected within Section 10, T8S R36E just north of an established lek (Figure 6, see Zoology Section – LEKCK1). The fence is at the transition of shin-oak shrublands with either shortgrass or mid- and tall-grasses containing scattered dunelands. For livestock management purposes, the fence forces the cattle to graze principally on the preferred shortgrass forage north of the fence, thereby relieving grazing pressures to the south in prime lesser prairie-chicken habitat. Of particular significance to habitat conservation for the LPCH is the abundance of high-quality nesting and foraging habitat adjacent to the lek which extends in all directions, totaling approximately 730 ha (1803) ac, Neville et al. 2005). Grazing within this southern portion of the section has been deferred throughout the year with the exception of July and November. Although the original agreement called for June and July deferment, NMDGF approved the modified grazing periods. In addition, the ranch attached plastic flags to the top and third barbed wires along the length of the new fence in accordance with Sutton fence marking quidelines (www.suttoncenter.org/fence\_marking.html) to reduce LPCH fence collisions. Wolfe et al. (2007) determined approximately 33% of deaths in LPCH populations were attributable to collisions with fences and that mortality was higher for hens than for cocks. However, the study was based on Oklahoma studies and not the more open pastures found more commonly in Milnesand (pers. comm., Don Wolfe). By early 2009, the ranch noticed some of the flags had been chewed off. A 0.5-mi (08km) length of pipeline and a steel stock tank were installed and built within Section 9, T8S R35E at the center part of the ranch (Figure 6). The tank and pipeline help divert livestock pressures away from prairie-chicken habitat toward an area of old fields and pastures (Figure 7).



FIGURE 7. INFRASTRUCTURE AND RANGE IMPROVEMENTS.



FIGURE 6. STOCK TANK AT PARKINSON RANCH.

#### **Landcover Improvements**

Shrub encroachment, particularly from mesquite, has increased in semi-arid grasslands of the southwestern United States. The increased shrub cover has lead to declines in species diversity, water availability, grazing capacity, and soil organic matter (Laliberte et al. 2004). In June 2008, the ranch met with a representative of Dow AgroSciences and a local dust-cropper, Dink Miller, to discuss the proposed mesquite-treatment sites and weather conditions for greatest treatment success. We identified three densities of mesquite encroachment following Natural Resources Conservation Service (NRCS) guidelines: light, medium, and heavy.

The heavy mesquite areas (64.8 ha, 160 ac) were aerially sprayed on June 25, 2008, and two weeks later a follow-up application only along the NM 262 within Section 5 was again sprayed (Figure 6). The remaining light- and medium-mesquite areas were spot treated by the ranch using four-wheeler equipped with sprayers (±202 ha, ±500 ac) beginning June 21, 2008 and periodically thereafter when soil temperature and mesquite plant conditions were appropriate. By mid-June 2009, the conditions were again appropriate to resume hand application within heavy, medium, and light areas of Sections 5 and the east edge of Section 11. The ranch wanted to obtain a higher kill rate than the 60% expected by "experts," so they continued with targeted hand spraying in late June and early July, using the chemicals Reclaim and Remedy. Although the mesquite appeared to be dead, re-growth at the base of the plants made it difficult to distinguish dead from live plants when spraying.

Although not a goal of the project, the ranch became concerned in 2009 about the large, standing, dead mesquite brush left from chemical treatments within Section 5. Some dead canopy had been removed by cattle by this time. They experimented with a steel-track bulldozer within a small test strip dragging a railroad rail to knock down the dead mesquite. Since NHNM had not yet completed their project, they decided to complete the bulldozing after the last 2009 monitoring.

# **Monitoring Support and Livestock Rotation Management**

NHNM personnel visited on several occasions throughout the study. The ranch provided logistical support, housing, and direction on target animal locations within and near the Parkinson Ranch.

A two-wire temporary electric fence was installed within the deferred grazing area (Sec. 10, T8S R34E) to provide a "control" in support of NHNM monitoring covering 8 ha (20 ac). Cattle have not grazed within this site since the initiation of the contract in May 2006. Within the southern half of Section 10 (162 ha, 400 ac), deferred grazing was practiced was between July 1 and July 31, 2008 and 27 cows, 2 bulls and 20 calves under 400 lbs were brought on. From November 1-30, 2008, the ranch again brought cattle into the deferred grazing section: 43 cows and 2 bulls. From July 1-31, 2009, 47 cows and 31 calves were again grazing in the deferred portion of Section 10 and for the month of November, 2009, 47 cows and 23 calves grazed. Approximately 47 cows and 31 calves open grazed between Sections 7, 8, 9 and the N/2 of Section 10 T8S R34E throughout the study period. The year-round pasture within Section 10 was grazed approximately 3 months/year in this open grazing system.

An additional temporary fence was constructed within Sec. 5, T8S R36E for a period of 4 months, July-October 2008. The cattle had been removed for aerial spraying of mesquite and subsequent monitoring by NHNM for the first growing season after spraying. After the first frost in October the fence was taken down and the cattle (26 cows and 1 bull) have continued to graze in this section, as specified in the terms of the LIP agreement.

# **Vegetation Monitoring**

#### Introduction

Vegetation monitoring systems were installed to detect changes in vegetation composition and structure in response to the mesquite-herbicide treatment the Mesquite Treatment Area (MTA) and the rotational grazing practices in mixed shin-oak and grass pasture in the deferred-grazing pasture referred to here as the Sandhill Grazing Area (SGA) (Figure 8). An initial field reconnaissance was conducted in August 2007 to identify and mark the survey areas for vegetation monitoring using field maps and sampling strategies that were developed for the two areas. Field surveys were conducted August 6-10, 2007 for the SGA and July 16-17, 2008 for the MTA. Both sites were re-read October 22-24, 2009.

#### **Methods**

#### Sandhill Grazing Area

Sampling transects were established in the SGA in 2008 to measure canopy cover, basal cover, and standing biomass of vegetation by species (Figure 8). Twenty-four 50-m-long transects were arranged in three experimental groups: Grazing Control (GC), Grazing Year-Round (GY), and Grazing Rotational (GR). The GC transects provided the control group where grazing was eliminated for the duration of the project using an electric fence. The GR group was grazed for two months out of the year (July 1-31, 2008 and November 1-30, 2008) and deferred the remainder. The GY group was available for year-round, unstructured grazing.

Each transect is permanently monumented with a two-foot iron rebar with 12 to 18 inches extending above ground. GPS coordinates were recorded for the beginning and end of the individual transects (Appendix A). Aluminum tags mark both the 0-m and 50-m rebar and are attached at ground level with metal wires. Digital photos were taken from the 0 m end of each transect, looking towards the 50 m end (see report DVD).

Within each treatment group a random-systematic design of transect placement was implemented (randomized starting point with systematic placement of transect and quadrats thereafter). The GC group comprised two sets of four lines each in the southeast corner of the pasture (E/2 SE/4 SE/4 of Section 10, T8S R36E). These transects were oriented from north to south and are 50 m apart end to end, and the two sets of four are 100 m apart from east to west. The 0 m start position was established at the south-end rebar of each transect and subsequent quadrats were read on the west side of the line (see below).

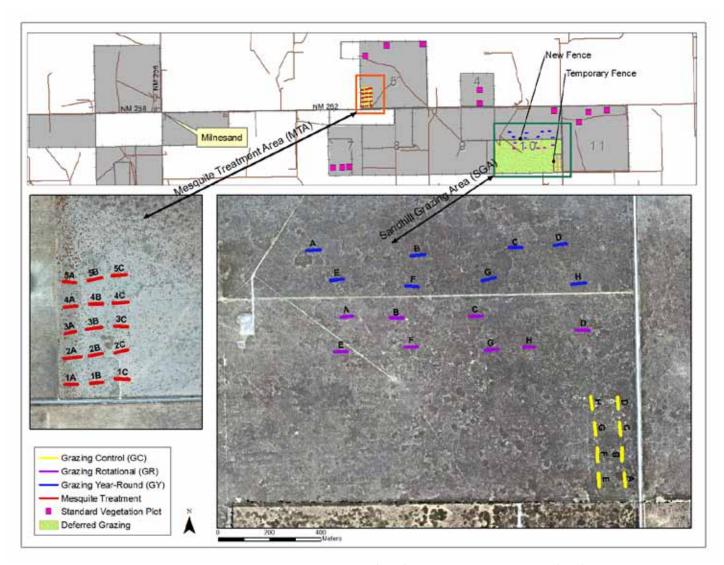


FIGURE 8. VEGETATION MONITORING WITHIN THE MESQUITE TREATMENT AREA (MTA) AND SANDHILL GRAZING AREA (SGA).

For the GR and GY groups, a set of 16 points was established using the GIS where points were randomly selected within a grid of 16 (280 m x 140 m) polygons with eight points on either side of the new E-W fence built for the project to separate the rotational from the year-round grazing areas. These random points were used as the starting point for eight 50-m-long transects. GR was on the south side of the fence and GY was on the north side. The 0-m position for each line was at the west-end rebar and quadrats were read on the north side of each line.

The sampling quadrat frames were one meter by one meter and composed of half-inch PVC plastic tubes. Quadrats were placed every 10 m along the transect, for a total of five quadrats per line. To avoid problems from trampling at the beginning of a transect, the sampling began at the two-meter mark extending forward to the three-meter mark with subsequent readings at 12 m, 22 m, 32 m, & 42 m. For each quadrat, plant height, percent canopy cover of individual species, and total canopy cover were recorded. The quadrat frames were divided into 100 10-cm x 10-cm (decimeter) squares to aid in percent canopy cover measurements. The modal height (+/- 0.5 cm) for each species was determined by measuring representative individuals (excluding inflorescences on grasses).

Biomass was collected by placing five 20-cm x 50-cm quadrats along the transect at every 10 m, starting at 4 m and clipping all vegetation within the quadrat. GR and GY quadrats were placed on the north side of the transect and GC quadrats were placed on the west side of the transects. Shrubs and herbaceous biomass (forbs and grasses) were separated and placed in paper bags for transport. In the lab, they were oven dried to constant weight at 60°C, the weight of the biomass and bag recorded, and the material disposed of.

To detect long-term changes in grass cover, a point-intercept method was used to determine basal area by species per transect (SGA in 2007 and 2009 and only 2009 in the Mesquite Treatment). One hundred points along each transect were sampled using a random systematic sampling design. The first point sampled along the transect was determined using a random number between 0 and 100 cm from the transect start, with subsequent point data collected every meter. For example, if 52 and 64 were chosen, the first sample would be at .52 m, the second at .64 m, and the third at 1.52 along the 50-m transect. This was repeated until 100 point-intercept elements were recorded. The collection of points along each 50-m transect was repeated (using a new random number and discarding any number within 10 cm of the first number) to obtain a total of 100 points. For sampling points falling within 10 cm of a rebar marker, the point was taken at 10 cm +/- X, where X was the random number. At each point, a pin flag was dropped perpendicular to the surface and the type of ground-cover element determined. The intercept points were recorded by plant species, or by land-cover type: soil, gravel, litter, or dung (dung and litter were later grouped for analysis). A total of 2,400 points were acquired, at 800 per treatment type.

#### **Mesquite Treatment Area**

Sampling transects were established in the MTA in the fall of 2007 and read in 2008 and 2009. A total of 26 cows and 1 bull grazed in this area from November 1, 2008 - January 10, 2009 with the remaining time deferred. To monitor the effects of mesquite treatment, we used a combination of line-transect and quadrat sampling to measure overall vegetation response and the direct success rate of mesquite die-off as measured by defoliation. Fifteen 50-m-long transects arranged in five sets (Lines 1-5) of three transects each (A, B, & C) were established in the MTA within the W/2 SW/4 SW/4 of Section 5, T8S R36E (Figure 8). The three 50-m transects within each set ran east to west and were established 50 m apart end to end. Lines were permanently monumented with iron rebar at each end and tagged at the

0-m and 50-m ends with the start on the east end. The rebar was pounded down to ground level. GPS coordinates were recorded for the beginning and end of the individual transects (Appendix A).

On each line, we partitioned the quadrat sampling into two subsets: two quadrats were located directly under randomly chosen mesquite shrubs offset from the lines, and two quadrats were sampled along the line in the inter-shrub spaces. For the direct mesquite sampling, at each rebar the nearest mesquite greater than 2 m in diameter was selected. The distance from the rebar to canopy edge was measured with a tape, and a rigid ruler was then used to measure from the canopy edge to the center of the mesquite so as to leave the interior of the mesquite undisturbed. The azimuth (± 2°) was taken with a compass from the rebar to the mesquite center. At each mesquite, a 1-m quadrat frame was inserted 0.5 m into the interior of the mesquite from canopy edge. Floristic measurements included percent cover of individual species, total canopy cover, total herbaceous canopy cover, and ground cover. Since the mesquite was sprayed just prior to our first reading in 2008, canopy cover for the mesquite prior to spraying was estimated based on remaining dead foliage and the extent of the branch systems covering the quadrat. In addition, the percent defoliation of the entire plant was estimated as a measure of dieoff. In 2009, the canopy cover of only the live mesquite was measured in the quadrats, and percent defoliation was again estimated for the entire plant.

In the inter-shrub spaces, two 1-m quadrat frames were placed at the 10-m and 40-m marks along the north side of the transects. If the quadrat fell inside a mesquite, it was offset by meter increments in either direction until it lay entirely in a shrub inter-space. The same measurements were conducted as for in-shrub quadrats with the exception of percent defoliation.

To determine basal area of herbaceous cover, line intercept readings were conducted along the transects beginning at the zero end. We recorded the beginning and ending ground cover of a patch to the nearest cm consisting of three ground-cover components:

- 1. Basal herbaceous cover (mostly grass clumps from edge to edge; gaps less than 15 cm are ignored or if the gap is on an elevated grass hummock and not a true inter-grass space);
- 2. Bare interspaces; and
- 3. Shrubs from the beginning to the end of the canopies (including grasses or forbs under the canopy). We recorded the shrub species, grass species (or stated as unidentified) and forbs as unidentified. Grass clumps had to be at least 1 cm in length to be recorded.

In 2009, an additional set of 1,500 point-intercept samples were acquired for the MTA group of transects to measure basal cover following the method used in SGA experimental area (see above).

#### **Data Management**

Data from paper field sheets and PDAs (personal digital assistants) were entered into NHNM's monitoring database (MS Access) and quality controlled following our standard manual read-back process and automated error-detecting routines. The base data is provided as an excel spreadsheet on the report DVD and in Appendix B.

Voucher specimens collected for all unknown species were identified by the NHNM Ecology Group senior botanist and the specimens deposited in the University of New Mexico, Museum of Southwestern Biology Herbarium. A complete list of all species encountered in the sampling along with their field/database codes is provided in Appendix C.

#### **Results**

#### **Sandhill Grazing Area**

We report here the baseline data for detecting long-term trends of vegetation composition and structure as affected by two grazing strategies—year-round open pasture grazing versus seasonal rotation/partial deferred, with a fully deferred pasture as a control for climatic and non-grazing related impacts. Given that grazing effects under moderate grazing pressure can take years to be become evident, the goal here was to ensure that a statistically robust monitoring system was in place that could detect subtle changes among treatments through time. Our repeated measurements of quadrat-based canopy cover along with measurements of standing biomass were expected to provide the most sensitive measurements of changes from year to year (or even season to season). While gross shifts in canopy cover can sometimes reflect long-term change, basal cover of grasses—the area of real estate occupied by the plants—is likely to be more sensitive to long-term changes due to grazing strategy.

Overall, and as expected, we did not detect any statistically significant differences in composition or structure among treatments between 2007 and 2009, but there were overall differences between years among some vegetation elements (Figure 9). For example, canopy cover of shin-oak declined between 2007 and 2008. This may be related to the below normal precipitation in 2008 and 2009, particularly during the previous winters (see Table 1). Hence, the shrubs may not have put on as much foliage over the growing season due to depleted deep soil moisture that is typically replenished by winter precipitation. In addition, time of sampling may also have been a factor since the transects in 2007 were measured at the peak of the growing season in early August, while in 2009 they were read in the fall, near the end of growing season. As a result, these deciduous oaks may have begun to shed leaves, reducing canopy cover measurements. This is suggested by the increase in litter covering the surface in 2009 (Figure 10). Grass cover also declined a small amount between 2007 and 2009, but this was not statistically significant. This was corroborated by the nearly equal basal cover of grass across years (Figure 10).

While there were overall cover differences between grasses and shrubs, standing biomass at the end of 2009 was nearly identical (Figure 11; Table 2). Once again, among shrubs the weights may reflect depressed moisture conditions and time of sampling. For the grasses (combined with a small amount of forbs), biomass may approximate normal values given that summer precipitation ended up near normal.

With respect to species richness, the only shift that occurred between 2007 and 2009 was among forbs, and species composition among treatments is nearly identical (Figure 12). Over time, if the different grazing regimes have an effect, we would expect a shift among treatments in both richness and composition.

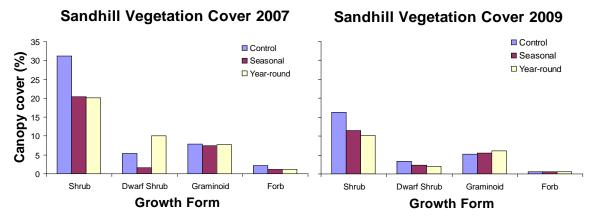


FIGURE 9. AVERAGE CANOPY COVER BY LIFE FORM ELEMENTS AT THE SANDHILL GRAZING AREA IN 2007 AND 2009 (N=15 PER TREATMENT).

Table 1. Precipitation distribution by major season at Portales (297008) during the project sampling period. The departures (Dept.) are the differences from the long-term average at the station between 1905 and 2009.

Winter			Summer			Total Water Year		
Year	Precip. (in)	Depart.	Year	Precip. (in)	Depart.	Precip. (in)	Depart.	
2006-07	8.24	4.07	2007	12.53	-0.24	20.77	3.83	
2007-08	1.54	-2.63	2008	9.6	-3.17	11.14	-5.8	
2008-09	2.85	-1.32	2009	12.46	-0.31	15.31	-1.63	
Long- term Average	4.17	-	-	12.77	-	16.94	-	

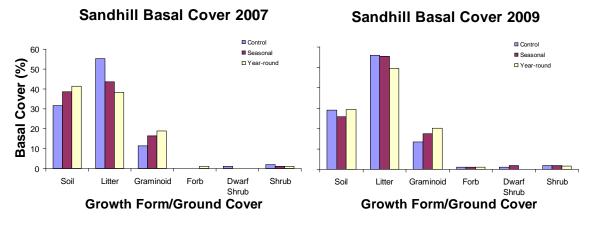


FIGURE 10. AVERAGE BASAL COVER BY LIFE FORM AND GROUND COVER ELEMENTS AT THE SANDHILL GRAZING AREA IN 2007 AND 2009 (N = 15 PER TREATMENT).

FIGURE 11. AVERAGE STANDING BIOMASS CANOPY COVER BY LIFE FORM ELEMENTS AT THE SANDHILL GRAZING AREA IN 2007 AND 2009 (N=15 PER TREATMENT).

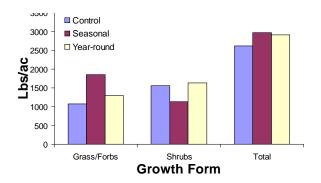


Table 2. Mean and standard deviations for standing biomass (LBS per acre) by life form elements at the Sandhill Grazing Area in 2009 (n=15 per treatment).

Treatment	Grass/	S.D.	Shrubs	S.D.	Total	S.D.
	Forbs					
Control	1066	±655	1552	±874	2619	±963
Seasonal	1847	±995	1128	±754	2975	±1197
Year-round	1289	±540	1630	±1212	2919	±1200
Average	1401	±788	1437	±974	2837	±1001

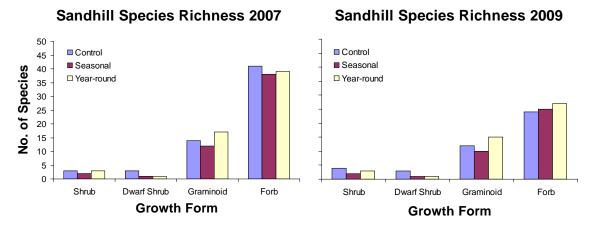


FIGURE 12. TOTAL SPECIES RICHNESS BY LIFE FORM ELEMENTS AT THE SANDHILL GRAZING AREA IN 2007 AND 2009 (N=15 PER TREATMENT).

#### **Mesquite Treatment Area**

The focus in the Mesquite Treatment Area (MT) was to determine the near-term effects of the mesquite eradication by spraying, and to install a long-term monitoring system to detect long-term changes in vegetation composition post treatment. Accordingly, the mesquite treatment as measured by percent whole plant defoliation was nearly 100% effective by 2009 (Figure 13a). Quadrat-based, in plant canopy cover of mesquite similarly declined from 80% before treatment to close to 0% after (Figure 13b). Under the shrubs, there were no significant differences in vegetation composition between before and after treatment (Figure 14a). The same pattern occurred in the inter-shrub spaces (Figure 14b). There was some indication of grass cover decline in 2009, but because there was no control, whether this is was a grazing and/or climatic effect could not be determined. Beginning in 2009, we installed basal-cover measurements, as was done in the Sandhill Grazing Area, to help detect future long-term trends (Figure 15).

#### **Discussion**

The vegetation-monitoring program and associated baseline data presented here provide the foundation for detecting both short- and long-term vegetation responses to grazing practices and mesquite eradication. With the system now installed, periodic monitoring can proceed in a cost-effective way to provide information for adaptive management that both enhances wildlife habitat and supports a sustainable livestock operation. For example, on the SGA study site, we would recommend monitoring on a periodic basis (every three to five years) to detect changes in shrub cover and height, grass basal cover, and key components of lesser prairie chickens habitat, while at the same continue biomass sampling to provide simultaneous information on available forage for livestock. Similarly, in the mesquite treatment, continued post-treatment monitoring area of grass basal cover and species composition along with detection of new mesquite establishments will help guide grazing practices and provide a sense of the long-term efficacy of mesquite treatments for enhancing rangeland resources.

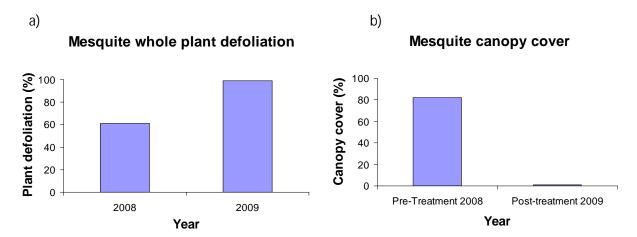


FIGURE 13. THE EFFECT OF HERBICIDE TREATMENT ON MESQUITE AT THE MESQUITE TREATMENT AREA: A) WHOLE PLANT DEFOLIATION MEASURED JUST AFTER TREATMENT IN 2008 AND AGAIN THE FALL OF 2009 (N=30); B) CANOPY COVER ESTIMATED FROM QUADRATS UNDER MESQUITE SHRUBS BEFORE TREATMENT INTO 2008 AND AFTER TREATMENT IN THE FALL OF 2009 (N=30).

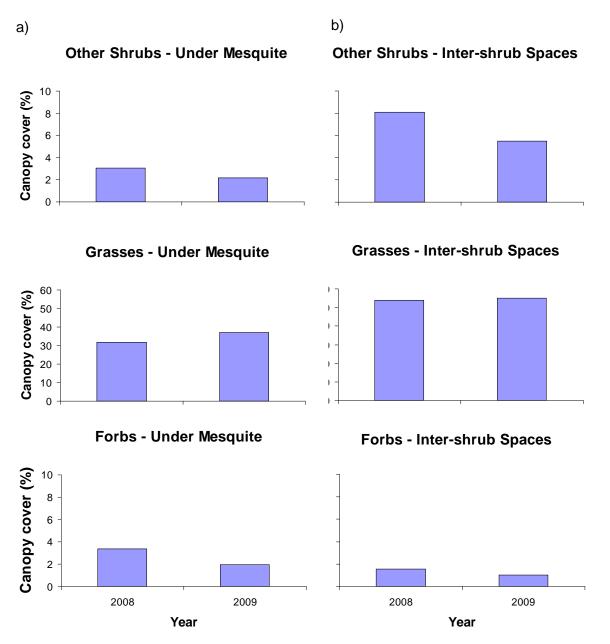


FIGURE 14. CANOPY COVER BY YEAR AND LIFE FORM AT MESQUITE TREATMENT AREA: A) DATA FROM QUADRATS UNDER MESQUITE SHRUBS (N=30); B) DATA FROM QUADRATS IN THE INTER-SHRUB SPACES (N=30).

#### Mesquite Inter-shrub Basal Cover 2009

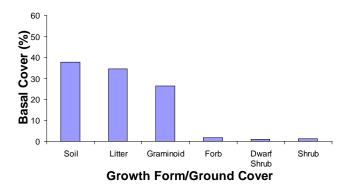


FIGURE 15. AVERAGE BASAL COVER OF GROUND COVER ELEMENTS AT THE MESQUITE TREATMENT AREA IN 2009 (N=15).

# **Landcover Mapping**

#### **Background**

Vegetation maps that cover the Parkinson Ranch include the state SWReGAP landcover map (USGS National Gap Analysis Program 2005) and a lesser prairie-chicken habitat map by Neville et al. (2005). Both used Landsat Enhanced Thematic Mapper Plus (ETM†) having a spatial resolution of 30m (98 ft) and based on the U.S. National Vegetation Classification System (US-NVCS) of Vegetation Alliances (Grossman et al. 1998). The USGS map uses a "coarse filter" or broad classification approach of the Terrestrial Ecological Systems Classification (Comer et al. 2003). This system "groups plant community types that tend to co-occur within landscapes with similar ecological processes, substrates and/or environmental gradients" (Comer et al. 2003). This coarse-filter approach groups one or more NVC alliances or associations, but is not necessarily hierarchical (Lowry et al. 2005). The USGS map identifies four map units on the ranch, they are: Western Great Plains Sandhill Shrubland, Western Great Plains Shortgrass Prairie, Apacherian-Chihuahuan Mesquite Upland Scrub, and Inter-Mountain Basins Semi-Desert Shrub Steppe. The sandhill shrubland unit includes the Quercus Havardii Shrubland Alliance, the shortgrass prairie unit includes several plant associations of the Bouteloua Gracilis Herbaceous Alliance, and the mesquite and inter-mountain basins shrub units include mesquite alliances and sand sagebrush alliances.

Neville et al. (2005) identified 20 map units within the ranch, eight of which are characterized by plant associations and landforms linked to LPCH habitat preferences. Their map units are generally at the alliance level of the dominant plant in the upper strata associated with lower strata groupings and modified by landform; e.g., Shin-Oak/Mixed Mid-Grass and Tall-Grass Duneland. In this example, the duneland is the landform with a dominant plant cover of shin-oak co-occurring with mid- and tall-grasses such as little bluestem and sand bluestem, common in the northern sandhill ecosystems. The mid- and tall-grasses are not specified since the species may differ, and the map unit well represents the fluctuating dominance and mix of these grasses with shin-oak.

Under the New Mexico Statewide Orthophotography Project (Bohannan-Huston, Inc. 2005), natural color photography was acquired with a spatial resolution of 1 m and orthorectified having a scale of 1:12,000. We selected this dataset along with field-collected data to develop a new map under this project that would have greater spatial resolution than the previous maps and increase the differentiation of landcover types associated with ranching activities over time.

#### **Methods**

#### **Field Observations**

Due to the extensive work we had done in the region (Neville et al. 2005 and Neville et al. 2007), we had previously developed map-unit descriptions and classification metrics for natural vegetation types represented on the ranch. We printed large-format field maps of the natural color 2005 orthophotography at 1:1,000 scale with Universal Transverse Mercator (UTM) coordinates and an overlay of polygons generated using Definiens eCognition object-oriented software (http://earth.definiens.com/). We visited the areas represented by the polygons and assigned a map unit to each one. Where needed, we redrew polygon boundaries directly onto the hard-copy maps. Additionally, we collected plot data at 24 sites July 22-24, 2008 and entered the data into the NHNM ecology database.

#### **Map Unit Classification**

We built upon the Neville et al. (2005) classification and added additional map units based on our field work at the ranch and our observations of land-use changes over time for landscapes that were previously shin-oak shrublands and dunelands. We had conversations with Elton Parkinson and Wiley Teel to verify which fields had been planted under the Conservation Reserve Program (CRP) and whether the seed was non-native or native. Since the NVC does not address the detail of human-manipulated environments that we were interested in, we developed provisional map units based on dominant species and life form<sup>5</sup>. (Plants can be classified as trees, shrubs, herbs [forbs and grasses], etc.) combined with a manmade modifier; e.g., treated or old field. Using this type of classification helps us understand changes to the sandhills ecosystem caused by ranching and farming activities and analyze these landscapes over time.

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<sup>&</sup>lt;sup>5</sup> Plants can be classified as trees, shrubs, herbs [forbs and grasses], etc.

#### **Ancillary GIS Layers**

The ranch and NHNM cooperated on developing GIS layers representing roads, fences, wells, pipelines, and various infrastructure elements. Although we had relatively high-spatial-resolution imagery, it is difficult to distinguish roads from pipelines and impossible to identify details such as type of pipe fittings (valves) of interest to the ranch. We exchanged and corrected a series of digital maps between the ranch and NHNM to increase the accuracy of infrastructure layers toward developing a map atlas of the ranch. We used the ArcGIS 9.3 PLTS extension to create the map series and output the results in Adobe Acrobat format for review by the ranch. Corrections were made to the maps by the ranch and then updated digitally by NHNM.

Soils were extracted from the Soil Survey Geographic (SSURGO) Database (Soil Survey Staff, Natural Resources Conservation Service, U.S. Department of Agriculture) to analyze land cover in the context of the NRCS soil map units. We selected map units included in the ranch and output NRCS reports: soil map units with non-technical descriptions (Appendix D), soil taxonomy (Appendix E), soil map-unit component legend (Appendix F), and rangeland productivity (Appendix G). Land cover and soils were overlain in a GIS and analyzed in MS Excel pivot tables.

#### **Results**

#### **Map Unit Classification**

We created 28 map units (26 vegetated) covering 3,222 ha (7961 ac, Table 3, Figure 16, Appendix H). The final map includes treatments and modifications prior to this project; we did not update the map for mesquite removal in Sections 5 and 11 of T8S R36E. Approximately 68% of the ranch remains as native shrubland or prairie (2190 ha, 5412 ac). Of the native landscape, five map units are dominated by either shin-oak or have shin-oak as a co-dominant or consistent component of native prairie (1266 ha, 3128 ac). These shin-oak shrublands and prairies overlay undulating sandsheets with few, scattered dunelands. The largest continuous sandhill ecosystem within the ranch covers the majority of the eastern sections south of NM Highway 262<sup>6</sup>. The Inter-Mountain Basins Semi-Desert Shrub Steppe is represented by a Sand Sagebrush-dominated shrubland with an understory of blue grama (75 ha, 186 ac). This shrubland occurs only on the west half of Sections 10 and 15 of T8S R35E and is a remnant of a previously more extensive shrubland extant prior to cropping. The shortgrass prairies consist of four map units and are typically dominated by blue grama (849 ha, 2098 ac). Again, the largest continuous shortgrass prairies lie at the eastern sections of the ranch (Sec. 5, 8, 9, 10, and 11 of T8S R36E). The grasslands occupy the inter-dune plains and swales of fine sandy loams with subsoils that originated in calcareous alluvial and lacustrine sediments (Lenfesty 1980).

The remaining vegetated classes have been disturbed and are described as either "manmade," "old field," or "treated" in the map-unit name. Those designated as old field have at some time been plowed and are currently dominated by either native or non-native plants (872 ha, 2155 ac). Old fields are predominantly in the two western portions, but also occur in the eastern half of Sec 7, T8S R36E and the

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<sup>&</sup>lt;sup>6</sup> E/4 SE/4 Sec 7, T8S R36E; S/2 Sec 8, T8S R36E; S/2 and NE/4 Sec 9, T8S R36E; S/2 and S/2 N/2 Sec 10, T8S R36E; S/2 and S/2 N/2 Sec 11, T8S R36E.

north half of Section 8, T8S R36E. Treated map units are those that have had shin-oak removed by chemical treatment, yet have not been plowed and have an intact landform (57 ha, 141 ac). Shin-oak no longer exists within the polygon or only remnants remain. Within the ranch, some dunelands and rolling sandy plains have been treated for shin-oak.

The remaining map units are either barren or sparsely vegetated areas that are the result of manmade disturbances, as well as planted trees and grasses maintained as yards. Buildings and roads are also included in this category (102 ha, 253 ac).

TABLE 3. LAND COVER MAP UNITS FOR THE PARKINSON RANCH, NEW MEXICO.

Map Unit Category	Vegetation Map Unit	Hectares	Acres
Native Grasslands		849	2,098
	Blue Grama-Buffalo Grass Grassland	292	721
	Bouteloua gracilis-Buchloe dactyloides		
	Bouteloua gracilis-Bouteloua eriopodsa		
	Bouteloua gracilis-Montyp		
	Blue Grama-Buffalo Grass/Dog Town Grassland	28	69
	Bouteloua gracilis-Buchloe dactyloides		
	Bouteloua eriopoda-Muhlenbergia torreyi		
	Mixed Mid-Grass and Short-Grass/Shin-oak Grassland	511	1263
	Bouteloua gracilis/Quercus havardii		
	Bouteloua hirsuta/Quercus havardii		
	Short-Grass/Honey Mesquite-Catclaw Mimosa Grassland	18	45
	Buchloe dactyloides/Prosopis glandulosa-Mimosa aculeaticarpa var. biuncifera		
Native Shrublands		1,341	3,314
	Honey Mesquite-Catclaw Mimosa-Shin-oak/Short-Grass Shrubland	86	213
	Prosopis glandulosa-Mimosa aculeaticarpa var. biuncifera- Quercus havardii/Bouteloua gracilis		
	Prosopis glandulosa/Bouteloua gracilis		

Map Unit Category	Vegetation Map Unit	Hectares	Acres
	Sand Sagebrush/Blue Grama Shrubland	75	186
	Artemesia filifolia/Bouteloua gracilis		
	Shin-oak Duneland	100	248
	Quercus havardii/Schizachyrium scoparium		
	Quercus havardii/Sparse		
	Shin-oak/Mixed Mid-Grass and Short Grass Shrubland	452	1118
	Quercus havardii/Bouteloua hirsuta		
	Quercus havardii/Digitaria pubiflora		
	Shin-oak/Mixed Mid-Grass and Tall Grass Shrubland	553	1366
	Quercus havardii/Schizachyrium scoparium		
	Quercus havardii/Sporobolus spp.		
	Quercus havardii/Andropogon hallii		
	Shin-oak-Sand Sagebrush Shrubland	74	182
	Quercus havardii-Artemesia filifolia		
Old Fields		872	2,155
	Black Grama-Silver Beardgrass Old Field Grassland	49	120
	Bouteloua eriopoda-Bothrichloa laguroides		
	Blue Grama-Silver Beardgrass Old Field Grassland	58	145
	Bouteloua gracilis-Bothrichloa laguroides		
	Hairy Grama-Silver Beardgrass Old Field Grassland	133	330
	Bouteloua hirsuta-Bothrichloa laguroides		
	Little Bluestem-Hairy Grama Old Field Grassland	157	388
	Schizachyrium scoparium-Bouteloua hirsuta		
	Lovegrass Old Field Grassland	136	337
	• Eragrostis spp.		

Map Unit Category	Vegetation Map Unit	Hectares	Acres
	Sideoats Grama Old Field Grassland	246	607
	Bouteloua curtipendula		
	Switchgrass Old Field Grassland	85	211
	• Panicum virgatum		
	Shin-oak Old Field Duneland	7	18
	Schizachyrium scoparium/Quercus havardii		
Shin-oak Treatments		57	141
	Short-Grass/Honey Mesquite-Catclaw Mimosa Treated Grassland	8	21
	Buchloe dactyloides/Prosopis glandulosa-Mimosa aculeaticarpa var. biuncifera		
	Honey Mesquite-Shin-Oak/Short-Grass Treated Shrubland	2	4
	Prosopis glandulosa-Quercus havardii/Bouteloua gracilis		
	Shin-oak/Lovegrass Treated Shrubland	23	57
	Quercus havardii/Eragrostis spp.		
	Shin-oak/Lovegrass Treated Duneland	24	59
	Quercus havardii/Aristida purpurea		
	Quercus havardii/Eragrostis spp.		
Other		102	253
	Barren/Sparsely Vegetated/Manmade Disturbance	55	137
	Manmade Vegetated (Grass)	2	6
	Manmade Vegetated (Trees)	3	8
	Buildings	1	2
	Roads	40	100
Total Land Cover		3,222	7,961

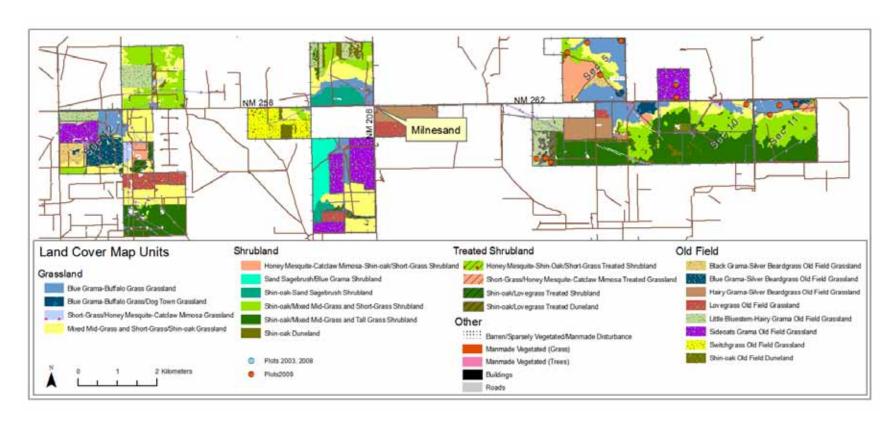


FIGURE 16. MAP OF PARKINSON LAND COVER.

#### **Analysis of Vegetation and Soils**

There are 20 soil map units identified by the NRCS within the ranch (Figure 17), which we have grouped by soil texture: fine sand, fine sandy loam, loam, loamy fine sand, and severely eroded (Figure 18). Severely eroded soils can have any of the soil textures mentioned but typically have shallow soils in the uppermost soil horizon to the extent that the plow layer consists essentially of material from underlying horizons (Soil Survey Division Staff 1993). Loamy fine sand and fine sand cover 64% of the ranch (Figure 19). Loamy fine sands are 67% grasslands with a variety of plant-cover types from Mixed Mid-Grass and Short-Grass/Shin-oak Grassland (7.3%) to Blue Grama-Buffalo Grass Grassland (3.3%) and fields (11%). Fine sands have shin-oak within the plant community 94% of the time with the remaining cover types either sand sagebrush or old fields. Soils classified by the NRCS as "severely eroded" cover 22% of the ranch. Of this 57% falls within old fields, 37% within areas with shin-oak as a component, and 6% within blue grama grasslands Figure 20<sup>7</sup>. The majority of eroded landscapes are located within the two westernmost areas of the ranch.

#### **Final Products**

Digital and hard-copy maps at various scales were developed under this portion of the project that represent: (1) baseline land cover (2008); (2) historical manmade activities on the landscape such as cropping and CRP; (3) a collection of imagery (1949, 1964, and 2005); (4) infrastructure representing roads, fences, active pipelines, valves, tanks, and wells; and (5) soils.

#### **Discussion**

The largest, continuous sandhill ecosystem within the ranch is approximately 680 ha (1682 ac) and contains two active leks. While several sections to the south of Section 11 have been converted from native sandhill, for nearly 8 km (5 mi) south of Sections 8, 9 and 10, landscapes remain native sandhill with approximately 8000 ha (19,768 ac) of lesser prairie-chicken habitat. Portions of the blue gramadominated grasslands within the ranch and contiguous lands are either currently occupied by blacktailed prairie dogs or have been in the recent past (28 ha, 70 ac). These grasslands are part of an extensive grassland to the north covering approximately 1500 ha (3706 ac). The ranch is geographically situated to maintain suitable habitat for both the lesser prairie-chicken and black-tailed prairie dog and provides an important linkage to New Mexico Department of Game and Fish and The Nature Conservancy protected areas.

Within the old field category we found both non-native plants and locally occurring natives as dominant cover types. Grasslands dominated by sideoats grama (Sideoats Grama Old Field Grassland), which although a native grass, do not occur naturally in these landscapes and are confirmed by the ranch as enlisted in the CRP. The Lovegrass Old Field Grassland within Sec. 11 is enlisted in the CRP. The map units Black Grama-Silver Beardgrass Old Field Grassland, Blue Grama-Silver Beardgrass Old Field Grassland are all locally native plants and probably became reestablished from the nearby seedbeds and/or were present within the old fields.

<sup>7</sup> SW/4 W/2 Sec 7, T8S R35E; W/2 and NW/4 and SE/4 Sec 6, T8S R35E; N/4 Sec 18, T8S R35E; N/2 Sec 9, T8S R35E; S/2 Sec 15, T8S R35E; W/2 W/2 and NE/4 NW/4 and NW/4 NE/4 Sec 3, T8S R35E; E/2 Sec 7, T8S R36E; N/2 SE/4 Sec 4, T8S R36E.

Since the statewide, widespread silver beardgrass is quick to establish in disturbed or overgrazed sites, its near co-dominance is probably not due to intentional seeding since its value to cattle is only fair (Loflin 2006). A large field, formerly a shin-oak shrubland in the central portion of the ranch where the new pipeline and tank were built, has a high cover of native grasses such as little bluestem and sand bluestem, but also a very high cover of switchgrass (*Panicum virgatum*). Although all are native to the area, we believe this field was reseeded with native grasses, with the addition of switchgrass, to possibly increase essential forage for quail. The map units Little Bluestem-Hairy Grama Old Field Grassland and Shin-oak Old Field Duneland occur in the eastern section of the ranch and are both examples of mechanical and chemical removal of shin-oak and use of lands as fields versus expanding forage for cattle. The native grasses that co-dominate probably are due to reestablishment of the native grasses over time.

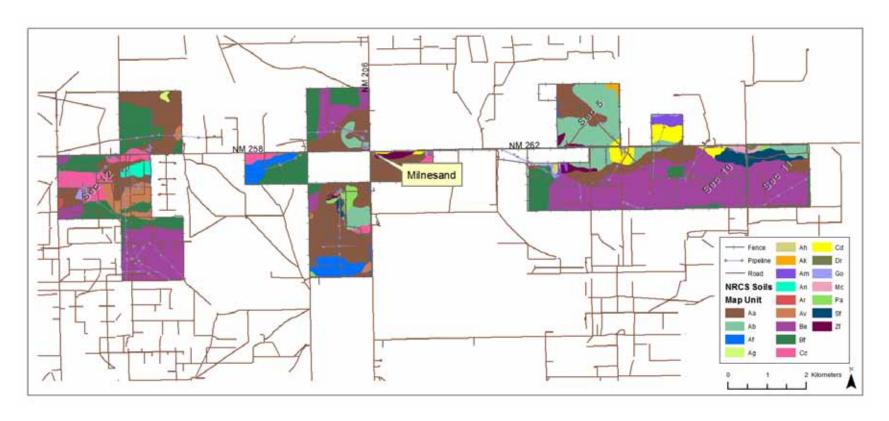


FIGURE 17. NRCS SOILS OF THE PARKINSON RANCH, NM. SEE APPENDIX D FOR DETAILS ON THE SOIL MAP UNITS.



FIGURE 18. NRCS SOIL TEXTURE FOR THE PARKINSON RANCH, NM.

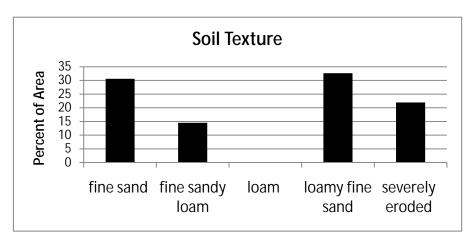


FIGURE 19. DISTRIBUTION BY PRECENTAGE OF SURFACE SOIL TEXTURE CLASSES ON THE PARKINSON RANCH, NM.

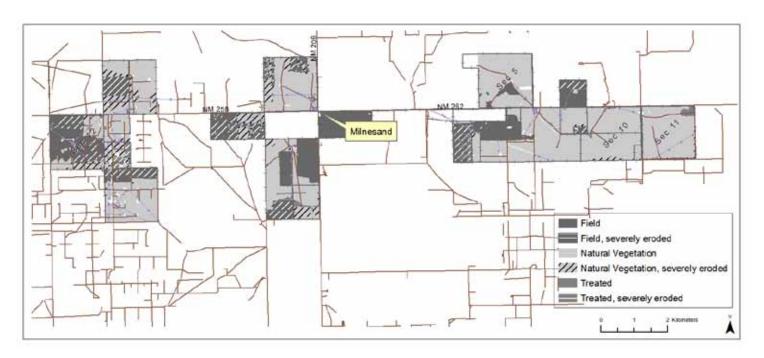


FIGURE 20. NRCS ERODED SOILS ON THE PARKINSON RANCH, NM.

## Zoology

## Introduction

The U.S. Fish and Wildlife Service (USFWS) Landowner Incentive Program (LIP) provides federal funding for habitat restoration on private lands, to benefit federally listed, proposed, or candidate species; species identified by state Comprehensive Wildlife Conservation Strategies; or state listed species. Grant funds are provided to the states through their state game and fish departments. Three animal species that qualify for support under the New Mexico LIP program occur on the Parkinson Ranch in habitats potentially affected by the habitat improvements conducted for this project.

The black-tailed prairie dog (BTPD, *Cynomys Iudovicianus*) is a highly social ground squirrel that lives in large, dense colonies in grassland habitats. BTPD burrowing and foraging activities create characteristic ground disturbance extensive enough to be visible on satellite imagery and aerial photography (Johnson et al. 2003, 2006a). This disturbance can persist for years after a colony is extirpated. A 12-month finding on a petition to list the species under the Endangered Species Act concluded that listing the black-tailed prairie dog as either threatened or endangered is not warranted at this time (USFWS 2009a). BTPD are threatened by plague, poisoning, hunting, and habitat loss to development.

The lesser prairie-chicken (LPCH, *Tympanuchus pallidicinctus*) is a grouse that occurs in eastern New Mexico in sand shinnery habitats. The LPCH is a candidate for listing under the Endangered Species Act (ESA), with a listing priority of 2 (USFWS 2009b). Threats to LPCH include conversion of native shrubland to cropland, herbicide-based conversion of shrubland to grassland, excessive livestock grazing, and drought (Hagan and Giesen 2005).

The loggerhead shrike (LOSH, *Lanius Iudovicianus*) is an open-country bird that feeds on a variety of vertebrate and invertebrate prey. Its breeding habitat includes grasslands and pasture lands with fence rows and isolated trees or shrubs. LOSH populations have declined across the continent in recent decades. The species as a whole is a USFWS species of conservation concern and a former Category 2 species, and it has conservation status in at least 26 states, although not in New Mexico (USFWS 2000). Threats include habitat loss and pesticide contamination (Reuven 1996).

#### Methods

In 2008, K. Johnson and J. Smith conducted field surveys at Parkinson Ranch for LPCH, LOSH, and BTPD. Prior to going into the field, we identified potential prairie dog disturbance using digital aerial photography. Town areas were digitized from 2005 digital orthophotos (Johnson et al. 2003, 2006a). Polygons detected in that survey are numbered individually. In some cases several polygons that comprise a single town are numbered differently due to different ownership and/or management of each polygon (Figure 21).

In the late afternoon of 3 April 2008, we visited eight known BTPD towns with Wiley Teel and scanned each town site visually and with binoculars for active prairie dogs. If no BTPD was visible, we examined

burrows for evidence of recent activity. On 4 April we returned to six of the towns visited the day before and visited two additional towns, giving a total of 12 towns surveyed on or near the Parkinson Ranch property (Figure 21). On 6 April 2009, we noted status of three of the towns surveyed in 2008.

During our BTPD surveys on 3 April, Wiley Teel also pointed out known LPCH lek locations. At each site we visited, we took GPS coordinates and counted any LPCH we saw. On 4 April we visited the most consistently active leks before dawn and surveyed for LPCH until about 8:40 am. We parked within sight of each lek (20-75 m away) and, using the vehicle as a blind, counted LPCH at each lek. We listened for LPCH along the major ranch roads and attempted to drive and walk to each lek we heard. For leks that were on neighboring private property, we either walked to the lek and surveyed or estimated the location by listening to gobbling birds. At 7 pm on 4 April we visited a lek at a windmill on private land adjacent to the Parkinson property. On 5 April we surveyed additional lek sites along the south boundary of the Parkinson Ranch and additional areas suggested by Wiley (Figure 22). On 7 April 2009 between 6:00 am and 7:30 am, K. Johnson and T. Neville re-surveyed the two traditional leks on the Parkinson property that were active in 2008.

On the afternoon of 4 April 2008, we conducted roadside surveys for LOSH. We drove the four main roads in the cardinal directions from the Milnesand Store, the length of the Parkinson Ranch property (Figure 23). We surveyed all roadside fences, power lines, and telephone lines for perched LOSH. We recorded GPS coordinates for each LOSH we saw. We also noted a shrike we saw about five miles north of the ranch on NM 206.

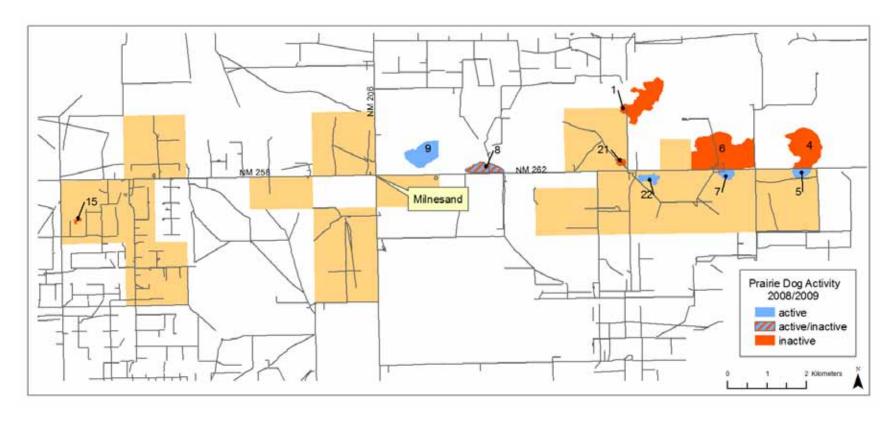


FIGURE 21. BLACK-TAIL PRAIRIE DOG ACTIVITY OBSERVED ON THE PARKINSON RANCH BETWEEN 2008 AND 2009.

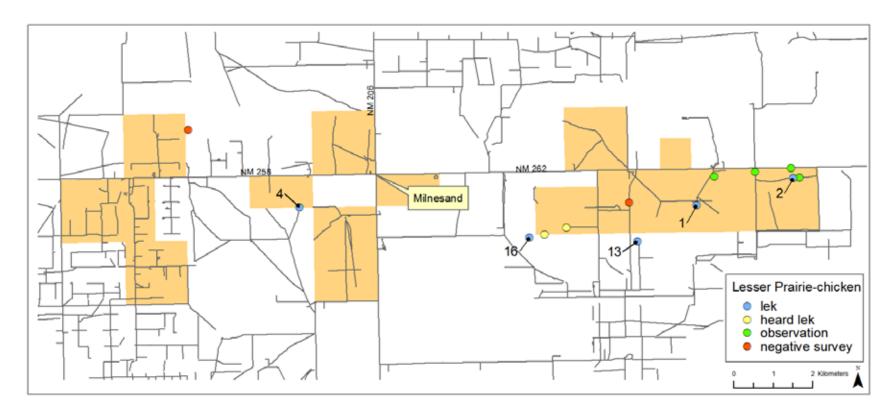


FIGURE 22. LESSER PRAIRIE-CHICKEN ACTIVITY OBSERVED ON THE PARKINSON RANCH BETWEEN 2008 ADN 2009.

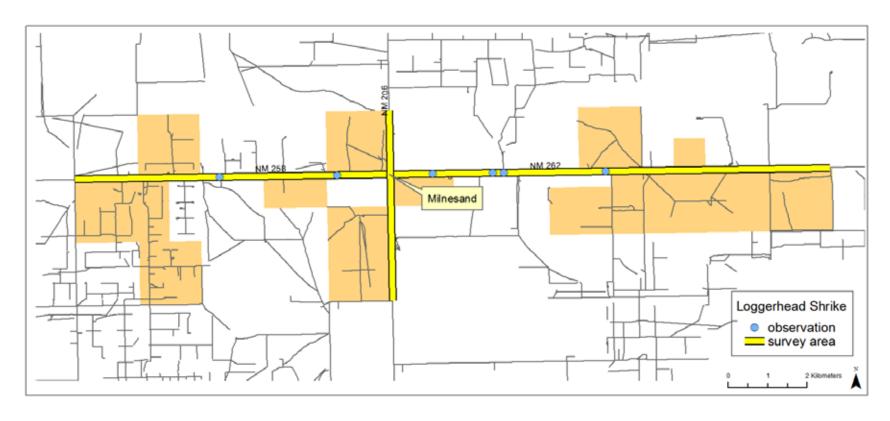


FIGURE 23. LOGGERHEAD SHRIKE ACTIVITY OBSERVED ON THE PARKINSON RANCH, NEW MEXICO, BETWEEN 2008 AND 2009.

#### **Results**

#### **BTPD**

In 2008, we surveyed 10 polygons comprising eight BTPD towns (Figure 21) and found four towns active (Polygons 5, 7, 8, 9, and 22). Most resident BTPD had disappeared from Town 5 in April 2007, presumably due to plague (W. Teel pers. comm.), leaving only two BTPD in 2008. Town 7 likewise lost nearly all its BTPD due to plague, leaving only 1 BTPD in 2008. Town 8 had not been poisoned but most of the colony had disappeared over the past year, leaving only six prairie dogs evident during our survey (W. Teel pers. comm.). Town 9 was not on the Parkinson property, but we observed burrows and BTPD from the road. Town 22 had 10-15 BTPD on 3 April and four BTPD on 4 April.

Polygon 6, across the road from polygon 7 and off Parkinson property, had been poisoned. BTPD not poisoned were probably finished off by plague (W. Teel pers. comm.), but the presence of one BTPD across the road in polygon 7 suggests potential for re-colonization. They could be considered parts of one town, but only the portion off the Parkinson Ranch (polygon 7) had been poisoned. Polygons 4 and 5 could be considered parts of the same town but were separated by a road, and only 5 was active. Polygon 1 was a formerly large town extirpated around April 2007, probably by plague (W. Teel pers. comm.). We were unable to survey most of town 1 because only the southwest corner was on the ranch, but Wiley Teel confirmed that the rest was inactive. The remaining polygons (4, 15, and 21) had old burrows. The area of former towns surveyed that had been extirpated by the time of the 2009 surveys was 282.8 ha, of which 18 (town 8) had been active in 2008.

In 2009 we noted the status of three of the towns surveyed in 2008: 8, 21, and 22. Town 21 was still inactive. Town 22, the most active town in 2008, was still active, but Town 8, active in 2008, appeared to be inactive in 2009. However, the number of BTPD counted in 2008 was so small that we could have missed seeing animals that were present but underground.

In summary, six former BTPD colonies in this survey were either completely extirpated or decimated by 2009, likely by plague. One of these (6) had been poisoned prior to the arrival of plague. At least two colonies (15, 21) had apparently died out more than two years ago, and we have no information on the cause of their demise. Four towns (1, 5, 7, and 8) had lost most of their BTPD as recently as 2007, likely due to plague (W. Teel pers. comm.). We observed more than six BTPD in only one colony (22), where we saw 10-15 animals.

#### **LPCH**

In 2008, we detected six groups of displaying LPCH on the Parkinson Ranch property (Figure 22). Only two of these were relatively large, historical leks (leks 1 and 2). Four of these groups comprised small numbers of males. Three groups (two of which were displaying) were seen in the evening but not the next day. One group of four flew into the site, two males displayed briefly, then they scattered. We heard no male displaying at any of these four sites again and therefore classified these groups as transient male groups. We counted a maximum of 12 males and 3 females (total of 15) at lek 1 in 2008. We counted 14 males and 2 females (total of 16) at lek 2.

We found five active leks near the Parkinson property on adjacent private lands in 2008. The three we surveyed (leks 13, 16, and 4) had 13, 16, and 4 LPCH in attendance, respectively. We estimated that the

other two were 1 km and 2 km south of the Parkinson property line, and we did not walk to them. Checks of two other sites on the ranch that were suggested by Wiley were negative.

In 2009, we only checked the two, large traditional leks on the Parkinson Ranch. At lek 1 we saw only six males in two hours of surveying, from 5:00-7:00 h. At lek 2 there were only four males at 7:10 when we began our survey. At 7:20 they flushed and did not return. In summary, between 2008 and 2009, the number of LPCH at lek 1 declined from 15 to six, a loss of 60%. Lek 2 declined from 16 to 4, a loss of 75%.

#### LOSH

We surveyed 24 km of LOSH habitat along roads adjacent to the Parkinson Ranch (Figure 23). We detected six LOSH along this route, and one additional LOCH outside this route about five miles north of the ranch. All shrikes were perched on wires alongside the road. We detected approximately 0.25 LOSH per linear km of roadside surveyed on the route, a surprisingly high number considering the short survey distance.

## **Discussion**

#### **BTPD**

We found 282.8 ha of formerly occupied, extirpated BTPD towns, and we found no evidence that these losses had been balanced by new colonization. Prairie dogs have high reproductive rates and are capable of re-colonizing formerly-occupied areas. However, as long as plague is present in the area, restoration of this population will occur slowly at best. Hunting and poisoning could also impact colonization.

#### **LPCH**

Our 2009 surveys suggest that the sizes of the two large, traditional LPCH leks on the Parkinson Ranch declined by 60% and 75% between 2008 and 2009. Although LIP management actions were conducted in 2008, we do not believe that these activities were responsible for the LPCH declines. LPCH populations declined in the wider Milnesand area. Surveys on the Nature Conservancy's (TNC) prairie chicken reserve (former Creamer Ranch) showed declines of 50% between spring 2008 and spring 2009 surveys, with similar declines for fall surveys in the same two years (Tish McDaniel, TNC, pers. comm.). Surveys by NMDGF in the area detected a 47% decline from 2008 to 2009. Declines noted by NMDGF were probably due to a very dry 2008 season (Figure 5, Table 1), exacerbated by a hailstorm on 5 May 2008 (Grant Beauprez, NMDGF, pers. comm.).

We assume that declines of the two Parkinson Ranch leks occurred due to weather or other impacts on the Milnesand-area LPCH population. The effects of habitat management on such a small area may be difficult to detect, since LPCH commonly nest one, two or more km from the lek where they mate (Johnson et al. 2004, 2006b; Hagan and Giesen 2005). Birds attending leks 1 and 2 could nest off the Parkinson Ranch, and birds nesting on the ranch could attend other leks in the area. Thus, the scale of impacts on LPCH populations in the Milnesand area, such as weather or predator populations, is likely larger than the size of the Parkinson Ranch.

#### LOSH

Roadside surveys indicated that LOSH occur on the Parkinson Ranch in fair numbers. Because LOSH need grassland habitats and are impacted by pesticides (Reuven 1996), size and health of the LOSH population around Milnesand are likely related to the health of grassland habitat. Population monitoring

and studies of reproductive success are needed before conclusions can be made regarding the stability of the LOSH population in the area.

## **NHNM Recommendations**

- 1. Grazing deferment is best done in July and August since leaving residual grass cover for nesting LPCH is one of the principal reasons for managed grazing. Since it was grazed in November 2008, after the growing season, less residual cover would be available for LPCH nesting.
- Continue a relationship with others in the region that are monitoring lek activity, such as The Nature Conservancy or the New Mexico Department of Game and Fish to continue the LPCH monitoring work begun here under this project.
- 3. Additionally, both the black-tailed prairie dog and loggerhead shrike are species of interest in the state and occupy niches within the Parkinson Ranch. Furthering the work begun under this project would contribute to maintaining good stewardship practices of these native wildlife.
- 4. Using the installed vegetation monitoring system, periodic monitoring can proceed in a cost-effective way to provide information for adaptive management that both enhances habitat for LPCH and supports a sustainable livestock operation. Yearly monitoring of cover and/or biomass by major life form elements such as grasses versus shrubs would contribute to our understanding of the year-to-year interactions of wildlife populations and livestock management. For monitoring for long-term changes in habitat structure and composition, we would recommend full sampling at three to five year intervals to detect changes in basal cover and species-specific abundance. Also key to understanding these interactions, is continuing to keep high-quality livestock use records coupled with the maintenance of a fully grazing-differed pasture over time as a control for climate effects. The monitoring data coupled with good management data offers an exceptional opportunity to understand the subtleties of management for sustainability of wildlife and a way of life.

## **Literature Cited**

Bohannan-Huston, Inc. 2005. New Mexico Statewide Orthophotography Project.

- Grossman, D. H., D. Faber-Langendoen, A. S. Weakley, M. Anderson, P. Bourgeron, R. Crawford, K. Goodin, S. Landaal, K. Metzler, K. D. Patterson, M. Pyne, M. Reid, and L. Sneddon. 1998. International classification of ecological communities: terrestrial vegetation of the United States. Volume 1. The National Vegetation Classification System: development, status, and applications. The Nature Conservancy, Arlington, Virginia, USA.
- Comer, P., D. Faber-Langendoen, R. Evans, S. Gawler, C. Josse, G. Kittel, S. Menard, M. Pyne, M. Reid, K. Schulz, K. Snow, and I. Teague. 2003. *Ecological Systems of the United States: A Working Classification of the U.S. Terrestrial Systems*. NatureServe, Arlington, Virginia. 83 p.

- Hagen, Christian A. and Kenneth M. Giesen. 2005. Lesser Prairie-Chicken (Tympanuchus pallidicinctus), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved 16 November 2009from the Birds of North America Online: <a href="http://bna.birds.cornell.edu/bna/species/364doi:10.2173/bna.364">http://bna.birds.cornell.edu/bna/species/364doi:10.2173/bna.364</a>
- Johnson, K., T. Neville, and L. Pierce. 2003. Remote sensing survey of black-tailed prairie dog towns in the historical New Mexico range. NHNM Publication No. 03-GTR-248. Natural Heritage NM, Museum of Southwestern Biology, Albuquerque, NM.
- Johnson, K., B.H. Smith, G. Sadoti, T.B. Neville, and P. Neville. 2004. Habitat use and nest site selection in nesting lesser prairie-chickens. Southwestern Naturalist 49:334-343.
- Johnson, K., T. Neville, and A. Kirk. 2006a. Monitoring black-tailed prairie dog towns in southeastern New Mexico using remote sensing. NHNM Publication No. 06GTR-296. Natural Heritage NM, Museum of Southwestern Biology, Albuquerque, NM.
- Johnson, K., T.B Neville, and P. Neville. 2006b. GIS habitat analyses for lesser prairie-chickens in southeastern New Mexico. BMC Ecology 6. Unpaginated.
- Laliberte, A.S., A. Rango, K.M. Havstad, J.F. Paris, R.F. Beck, R. McNeely, and A.L. Gonzales. 2004. Object-oriented image analysis for mapping shrub encroachment from 1937 to 2003 in southern New Mexico. Remote Sensing of Environment. Volume 93, Issues 1-2, 198-210 pp.
- Lenfesty, C. 1980. *Soil Survey of Chaves County, New Mexico Northern Part*. United States Department of Agriculture, Soil Conservation Service, in cooperation with the United States Department of the Interior, Bureau of Land Management and the New Mexico Agricultural Experiment Station, 224 p.
- Loflin, S. 2006. *Grasses of the Texas Hill Country: a field guide*. Texas A&M University Press. 195 p.
- Lotspeich, F.B. and M.E. Everhart. 1962. Climate and vegetation as soil forming factors on the Llano Estacado. Journal of Range Management, Vol. 15, No. 3 (May, 1962), pp. 134-141.
- Lowry, J. H, Jr., R. D. Ramsey, K. Boykin, D. Bradford, P. Comer, S. Falzarano, W. Kepner, J. Kirby, L. Langs, J. Prior-Magee, G. Manis, L. O'Brien, T. Sajwaj, K. A. Thomas, W. Rieth, S. Schrader, D. Schrupp, K. Schulz, B. Thompson, C. Velasquez, C. Wallace, E. Waller and B. Wolk. 2005. *Southwest Regional Gap Analysis Project: Final Report on Land Cover Mapping Methods*, RS/GIS Laboratory, Utah State University, Logan, Utah.
- McLemore, V.T. 1998. Oasis: New Mexico Geology 20(4):106-108.
- Neville, P., T. Neville, and K. Johnson. 2005. Lesser prairie-chicken habitat map for portions of Eastern New Mexico. Publication No. 05-GTR-285. Natural Heritage New Mexico, Museum of Southwestern Biology, University of New Mexico. 77 p.

- Neville, P., T. Neville, and K. Johnson. 2007. Map of a portion of potential sand dune lizard habitat in southeastern New Mexico. Natural Heritage New Mexico Publ. No. 07-GTR-318. Natural Heritage New Mexico, Museum of Southwestern Biology, University of New Mexico. 71 p.
- Robel, R.J., J.N. Briggs, A.D. Dayton and L.C. Hulbert. 1970. Relationships between visual obstruction measurements and weight of grassland vegetation. Journal of Range Management, Vol. 23(4): 295-297.
- Soil Survey Division Staff. 1993. *Soil survey manual*. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. Available online at <a href="http://soils.usda.gov/technical/manual/">http://soils.usda.gov/technical/manual/</a> accessed 2009-12-18.
- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database for Roosevelt County, New Mexico. Available online at <a href="http://soildatamart.nrcs.usda.gov">http://soildatamart.nrcs.usda.gov</a> accessed 2009-12-11.
- US Fish and Wildlife Service. 2000. Loggerhead Shrike Status Assessment. Prepared by Lori Pruitt, Bloomington, IN. Accessed online 16 November 2009 at: <a href="http://www.fws.gov/midwest/eco\_serv/soc/birds/LOSH/LOSHSA\_entire.pdf">http://www.fws.gov/midwest/eco\_serv/soc/birds/LOSH/LOSHSA\_entire.pdf</a>
- US Fish and Wildlife Service. 2009a. Endangered and threatened wildlife and plants: 12-month finding on a petition to list the black-tailed prairie dog as threatened or endangered. Federal Register 74 (231):63343-63366. Accessed 9 December 2009 at <a href="http://www.fws.gov/mountain-prairie/species/mammals/btprairiedog/74FR63343.pdf">http://www.fws.gov/mountain-prairie/species/mammals/btprairiedog/74FR63343.pdf</a>
- US Fish and Wildlife Service. 2009b. Candidate Notice of Review. Federal Register 74(215)57804-Accessed 16 November 2009 at <a href="http://www.fws.gov/policy/library/2009/E9-26841.pdf">http://www.fws.gov/policy/library/2009/E9-26841.pdf</a>
- USGS National Gap Analysis Program. 2005. Southwest Regional GAP Analysis Project Land Cover Descriptions. RS/GIS Laboratory, College of Natural Resources, Utah State University.
- Yosef, Reuven. 1996. Loggerhead Shrike (Lanius Iudovicianus), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved 16 November 2009 from the Birds of North America Online: <a href="http://bna.birds.cornell.edu/bna/species/231doi:10.2173/bna.231">http://bna.birds.cornell.edu/bna/species/231doi:10.2173/bna.231</a>

# Appendix A. Monitoring Transect GPS Locations

Treatment	Treatment				
Type	Description	Treatment Area	Stake Label	Easting	Northing
MT	Mesquite Treatment	Mesquite Treatment Area	MT1AE	658819	3723968
			MT1AW	658768	3723961
			MT1BE	658916	3723977
			MT1BW	658868	3723969
			MT1CE	659016	3723982
			MT1CW	658965	3723988
			MT2AE	658829	3724070
			MT2AW	658762	3724062
			MT2BE	658906	3724080
			MT2BW	658863	3724075
			MT2CE	659016	3724096
			MT2CW	658964	3724090
			MT3AE	658815	3724169
			MT3AW	658767	3724159
			MT3BE	658913	3724182
			MT3BW	658864	3724173
			MT3CE	659012	3724192
			MT3CW	658964	3724188
			MT4AE	658815	3724267
			MT4AW	658763	3724263
			MT4BE	658914	3724276
			MT4BW	658863	3724275
			MT4CE	659012	3724285
			MT4CW	658960	3724279
			MT5AE	658808	3724357
			MT5AW	658760	3724362
			MT5BE	658908	3724374
			MT5BW	658858	3724371
			MT5CE	659009	3724393
			MT5CW	658959	3724385
GC	Grazing Control	Sandhill Grazing Area	07GC001A-		
			N	663548	3722462
			07GC001A-	//2554	2722444
			S 07GC001B-	663554	3722414
			N	663536	3722567

Treatment	Treatment				
Туре	Description	Treatment Area	Stake Label	Easting	Northing
	<u>'</u>		07GC001B-	<u> </u>	<u> </u>
			S	663544	3722517
			07GC001C-		
			N	663531	3722665
			07GC001C-		
			S	663537	3722613
			07GC001D-		
			N	663522	3722768
			07GC001D-	//0500	0700747
			\$	663528	3722717
			07GC001E-	//2447	27224//
			N 0700001F	663447	3722466
			07GC001E- S	663450	3722418
			07GC001F-	003430	3/22410
			N	663440	3722569
			07GC001F-S	663444	3722519
			07GC001F-3	003444	3/22319
			N	663431	3722667
			07GC001G-	003431	3722007
			S	663438	3722616
			07GC001H-	000100	3722010
			N	663421	3722765
			07GC001H-		
			S	663426	3722716
GR	Grazing Rotation	Sandhill Grazing Area	07GR001A-		
	, and the second		E	662492	3723083
			07GR001A-		
			W	662443	3723078
			07GR001B-		
			E	662685	3723074
			07GR001B-		
			W	662635	3723074
			07GR001C-	//0000	070000
			E 0700010	662993	3723082
			07GR001C-	//2044	2722070
			07CD001D	662944	3723079
			07GR001D- E	663415	3723025
			07GR001D-	003413	3723023
			W W	663366	3723026
			07GR001E-	003300	3123020
			E	662471	3722945
			07GR001E-	002771	3722773
			W	662422	3722944
	<u> </u>	L		002 122	0,22,777

Treatment	Treatment				
Type	Description	Treatment Area	Stake Label	Easting	Northing
3.	·		07GR001F-		, and the second
			E	662741	3722960
			07GR001F-		
			W	662693	3722959
			07GR001G-		
			Е	663062	3722954
			07GR001G-		
			W	663004	3722948
			07GR001H-		
			Е	663196	3722960
			07GR001H-		
			W	663154	3722961
GY	Grazing Year Round	Sandhill Grazing Area	07GY001A-		
			E	662366	3723341
			07GY001A-		
			W	662323	3723335
			07GY001B-		
			E	662774	3723321
			07GY001B-		
			W	662723	3723313
			07GY001C-		
			E	663148	3723347
			07GY001C-		
			W	663099	3723347
			07GY001D-		
			E	663320	3723363
			07GY001D-		
			W	663273	3723355
			07GY001E-		
			Е	662460	3723225
			07GY001E-		
			W	662409	3723221
			07GY001F-E	662749	3723197
			07GY001F-		
			W	662699	3723195
			07GY001G-		
			Е	663043	3723232
			07GY001G-		
			W	662991	3723223
			07GY001H-		
			E	663393	3723209
			07GY001H-	,,,,,,,,,,	0705555
			W	663343	3723208

## **Appendix B. Vegetation Monitoring Data**

Table B1. Raw floristic data by quadrat at the Sandhills Grazing Area (SGA).

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Ambrosia		
07GC001	GC	Α	2	2007	AMBPSI	AMPS	0.1	13	psilostachya	4	
									Aristida		
07GC001	GC	Α	2	2007	ARIPUR	ARPU9	2	22	purpurea	3	
		_	_						Bouteloua		
07GC001	GC	Α	2	2007	BOUHIR	BOHI2	5	16	hirsuta	3	
		_	_				_		Cenchrus		
07GC001	GC	Α	2	2007	CENSPI	CESP4	2	16	spinifex	3	
		_	_					_	Chamaesyce		
07GC001	GC	Α	2	2007	CHAGLY	CHGL13	0.1	5	glyptosperma	4	07GC001- F14
.=00004		_			01150140	01101/			Chenopodium		
07GC001	GC	Α	2	2007	CHECYC	CHCY	0.5	32	cycloides	4	07GC001- F28
0700004	00			0007	OVERET	0)/DE44	_	40	Cyperus		0700004 044
07GC001	GC	Α	2	2007	CYPRET	CYRE14	1	16	retroflexus	3	07GC001- G14
0700004	00			0007	DIODUD	DIDLIO	_	0.5	Digitaria		
07GC001	GC	Α	2	2007	DIGPUB	DIPU9	5	25	pubiflora	3	
0700004	00	_	_	2007	EDACEC	EDOE	2	22	Eragrostis	3	0700004 040
07GC001	GC	Α	2	2007	ERASEC	ERSE	2	22	secundiflora	3	07GC001- G10
07GC001	GC	_	2	2007	ERIANN	ERAN4	0.5	55	Eriogonum		
076001	GC	Α	2	2007	ERIAININ	EKAN4	0.5	55	annuum	4	
									Helianthus		
07GC001	GC	Α	2	2007	HELPETP	HEPEP	4	28	petiolaris ssp.	4	HELPET
070001	- 50	_ ^		2007	TILLELIE	IILFLF	4	20	Paspalum	4	
									setaceum var.		
07GC001	GC	Α	2	2007	PASSETS	PASES	0.5	7	stramineum	3	
070001		Λ		2001	IAGGETG	1 AGEG	0.5	'	Plantago	3	
07GC001	GC	Α	2	2007	PLAWRI4	PLWR	2	18	wrightiana	4	F24
3733331		, , ,		2007	I L/ WVIXIT	1 - 1 1 1		10	Quercus		1 <b>4</b> i
07GC001	GC	Α	2	2007	QUEHAV	QUHA3	40	40	havardii	2	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						,			Schizachyrium		
07GC001	GC	Α	2	2007	SCHSCO	SCSC	28	30	scoparium	3	
									Sporobolus		
07GC001	GC	Α	2	2007	SPOCRY	SPCR	7	30	cryptandrus	3	
									Andropogon		
07GC001	GC	Α	12	2007	ANDHAL	ANHA	26	110	hallii	3	
									Aphanostephus		
07GC001	GC	Α	12	2007	APHRAM	APRA	3	20	ramosissimus	4	
									Aristida		
07GC001	GC	Α	12	2007	ARIPUR	ARPU9	15	20	purpurea	3	
		_					_		Calylophus		
07GC001	GC	Α	12	2007	CALSER	CASE12	3	33	serrulatus	4	07GC001- F19
.=		_			0011555	0055			Commelina	_	
07GC001	GC	Α	12	2007	COMERE	COER	2	30	erecta	4	
0700004	00		40	0007	ODVOIN	ODOIO	0.4		Cryptantha		
07GC001	GC	Α	12	2007	CRYCIN	CRCI3	0.1	8	cinerea	4	
07GC001	GC	_	12	2007	DIGPUB	DIPU9	_	25	Digitaria pubiflora	3	
07GC001	GC	Α	12	2007	DIGPUB	DIPU9	2	25	Helianthus	3	
									petiolaris ssp.		
07GC001	GC	Α	12	2007	HELPETP	HEPEP	5	50	petiolaris ssp.	4	HELPET
07GC001	GC	A	12	2007	MIRLIN	MILI3	0.5	40	Mirabilis linearis	4	07GC001- F36
0790001	GC	_ A	12	2007	IVIIIN	IVIILIS	0.5	40	Paspalum	4	076001-730
									setaceum var.		
07GC001	GC	Α	12	2007	PASSETS	PASES	1	16	stramineum	3	
0,00001	00			2001	17.00210	171020		10	Plantago	Ū	
07GC001	GC	Α	12	2007	PLAWRI4	PLWR	0.1	10	wrightiana	4	F24
									Quercus		
07GC001	GC	Α	12	2007	QUEHAV	QUHA3	32	45	havardii	2	
									Sporobolus		
07GC001	GC	Α	12	2007	SPOCRY	SPCR	4	20	cryptandrus	3	
									Andropogon		
07GC001	GC	Α	22	2007	ANDHAL	ANHA	30	55	hallii	3	
									Aphanostephus		
07GC001	GC	Α	22	2007	APHRAM	APRA	0.1	28	ramosissimus	4	
									Chamaesyce		
07GC001	GC	Α	22	2007	CHAGLY	CHGL13	0.5	5	glyptosperma	4	07GC001- F14
07GC001	GC	Α	22	2007	CHECYC	CHCY	0.1	15	Chenopodium	4	07GC001- F28

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									cycloides		
07GC001	GC	Α	22	2007	CYCATR	CYAT	0.1	7	Cycloloma atriplicifolium	4	
									Paspalum setaceum var.		
07GC001	GC	Α	22	2007	PASSETS	PASES	4	18	stramineum	3	
07GC001	GC	Α	22	2007	QUEHAV	QUHA3	28	30	Quercus havardii	2	
07GC001	GC	Α	22	2007	SCHSCO	SCSC	35	40	Schizachyrium scoparium	3	
07GC001	GC	Α	22	2007	SPOCRY	SPCR	6	20	Sporobolus cryptandrus	3	
07GC001	GC	Α	32	2007	ANDHAL	ANHA	8	38	Andropogon hallii	3	
									Aristida		
07GC001	GC	Α	32	2007	ARIPUR	ARPU9	5	20	purpurea	3	
07GC001	GC	Α	32	2007	ARTDRA	ARDR4	2	40	Artemisia dracunculus	4	
07GC001	GC	Α	32	2007	BOUHIR	BOHI2	10	20	Bouteloua hirsuta	3	
07GC001	GC	Α	32	2007	DIGPUB	DIPU9	1	20	Digitaria pubiflora	3	
07GC001	GC	Α	32	2007	ERASEC	ERSE	2	20	Eragrostis secundiflora	3	07GC001- G10
07GC001	GC	A	32	2007	HELPETP	HEPEP	2	40	Helianthus petiolaris ssp. petiolaris	4	HELPET
07GC001	GC	Α	32	2007	HETSUB	HESU3	0.5	25	Heterotheca subaxillaris	4	
07GC001	GC	Α	32	2007	PASSETS	PASES	2	18	Paspalum setaceum var. stramineum	3	
07GC001	GC	A	32	2007	QUEHAV	QUHA3	40	40	Quercus havardii	2	
07GC001	GC	Α	32	2007	SCHSCO	SCSC	15	32	Schizachyrium scoparium	3	
07GC001	GC	Α	32	2007	SPOCRY	SPCR	2	15	Sporobolus cryptandrus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
07GC001	GC	Α	32	2007	YUCGLA	YUGL	6	70	Yucca glauca	2	
									Ambrosia		
07GC001	GC	Α	42	2007	AMBPSI	AMPS	1	25	psilostachya	4	
		_							Bouteloua		
07GC001	GC	Α	42	2007	BOUCUR	BOCU	0.5	25	curtipendula	3	
070001			40	0007	01140137	01101.40			Chamaesyce		0700004 544
07GC001	GC	Α	42	2007	CHAGLY	CHGL13	2	3	glyptosperma	4	07GC001- F14
0700001	GC	^	40	2007	CRYCIN	CRCI3	2	26	Cryptantha	4	
07GC001	GC	Α	42	2007	CRYCIN	CRCI3		26	cinerea Cycloloma	4	
07GC001	GC	Α	42	2007	CYCATR	CYAT	0.5	13	atriplicifolium	4	
07 GC001	GC	Α	42	2007	CICAIN	CIAI	0.5	13	Helianthus	4	
									petiolaris ssp.		
07GC001	GC	Α	42	2007	HELPETP	HEPEP	3	45	petiolaris	4	HELPET
070001		, ,		2001	11221 211	1121 21		10	Paronychia		1122121
07GC001	GC	Α	42	2007	PARJAM	PAJA	0.5	8	jamesii	4	
					-	-			Paspalum		
									setaceum var.		
07GC001	GC	Α	42	2007	PASSETS	PASES	2	45	stramineum	3	
									Quercus		
07GC001	GC	Α	42	2007	QUEHAV	QUHA3	70	45	havardii	2	
									Schizachyrium		
07GC001	GC	Α	42	2007	SCHSCO	SCSC	20	50	scoparium	3	
									Sporobolus		
07GC001	GC	Α	42	2007	SPOCRY	SPCR	3	45	cryptandrus	3	
		_	_						Bouteloua		
07GC001	GC	В	2	2007	BOUHIR	BOHI2	8	22	hirsuta	3	
0700004	00	Б		0007	0115070	01101/	0.4	_	Chenopodium	_	0700004 500
07GC001	GC	В	2	2007	CHECYC	CHCY	0.1	7	cycloides	4	07GC001- F28
07GC001	GC	В	2	2007	COMERE	COER	1.5	20	Commelina erecta	4	
076001	GC	Ь		2007	COMERE	COER	1.5	20		4	
07GC001	GC	В	2	2007	CRYCIN	CRCI3	0.5	9	Cryptantha cinerea	4	
07 GC001	- 50	U		2007	CICTOIN	UNUIS	0.5	9	Hesperostipa	4	
									comata ssp.		
07GC001	GC	В	2	2007	HESCOMC	HECOC8	15	20	comata	3	07GC001- G18
		=	_						Opuntia		
07GC001	GC	В	2	2007	OPUPHA	OPPH	0.1	2	phaeacantha	2.5	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GC001	GC	В	2	2007	PASSETS	PASES	1.5	20	stramineum	3	
									Quercus		
07GC001	GC	В	2	2007	QUEHAV	QUHA3	60	45	havardii	2	
									Schizachyrium		
07GC001	GC	В	2	2007	SCHSCO	SCSC	20	30	scoparium	3	
									unidentified forb		
07GC001	GC	В	2	2007	UNIDFS		0.1	2	- seedling	4	
									Aristida		
07GC001	GC	В	12	2007	ARIPUR	ARPU9	6	25	purpurea	3	
									Bouteloua		
07GC001	GC	В	12	2007	BOUCUR	BOCU	3	25	curtipendula	3	
									Bouteloua		
07GC001	GC	В	12	2007	BOUHIR	BOHI2	1	22	hirsuta	3	
									Commelina		
07GC001	GC	В	12	2007	COMERE	COER	0.1	18	erecta	4	
									Paspalum		
		_							setaceum var.	_	
07GC001	GC	В	12	2007	PASSETS	PASES	1	30	stramineum	3	
									Quercus		
07GC001	GC	В	12	2007	QUEHAV	QUHA3	40	30	havardii	2	
									Schizachyrium		
07GC001	GC	В	12	2007	SCHSCO	SCSC	30	28	scoparium	3	
									Sporobolus		
07GC001	GC	В	12	2007	SPOCRY	SPCR	1	20	cryptandrus	3	
							_		Bouteloua	_	
07GC001	GC	В	22	2007	BOUCUR	BOCU	3	30	curtipendula	3	
							_		Bouteloua	_	
07GC001	GC	В	22	2007	BOUHIR	BOHI2	3	22	hirsuta	3	
						0.0545			Calylophus		.=
07GC001	GC	В	22	2007	CALSER	CASE12	2	43	serrulatus	4	07GC001- F19
									Chenopodium		
07GC001	GC	В	22	2007	CHECYC	CHCY	0.1	13	cycloides	4	07GC001- F28
						_,,			Evolvulus		
07GC001	GC	В	22	2007	EVOSER	EVSE	1.5	11	sericeus	4	07GC001- F34
					<b>_</b> . <b>_</b>				Helianthus		
07GC001	GC	В	22	2007	HELPETP	HEPEP	0.1	38	petiolaris ssp.	4	HELPET

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									petiolaris		
									Heterotheca		
07GC001	GC	В	22	2007	HETSUB	HESU3	0.1	16	subaxillaris	4	
07GC001	GC	В	22	2007	MIRLIN	MILI3	0.1	37	Mirabilis linearis	4	07GC001- F36
									Quercus		
07GC001	GC	В	22	2007	QUEHAV	QUHA3	48	40	havardii	2	
									Schizachyrium		
07GC001	GC	В	22	2007	SCHSCO	SCSC	22	48	scoparium	3	
									Aristida		
07GC001	GC	В	32	2007	ARIPUR	ARPU9	1	20	purpurea	3	
									Bouteloua		
07GC001	GC	В	32	2007	BOUHIR	BOHI2	4	16	hirsuta	3	
									Chamaesyce		
07GC001	GC	В	32	2007	CHAMIS	CHMI8	2	22	missurica	4	07GC001- F32
									Chenopodium		
07GC001	GC	В	32	2007	CHECYC	CHCY	1	32	cycloides	4	07GC001- F28
		_							Cycloloma		
07GC001	GC	В	32	2007	CYCATR	CYAT	0.1	17	atriplicifolium	4	
									Helianthus		
0700004		_	00	0007	LIEL DETD	LIEDED			petiolaris ssp.	_	LIELDET
07GC001	GC	В	32	2007	HELPETP	HEPEP	6	50	petiolaris	4	HELPET
0700004	00		20	0007	LIETCLID	LIECLIO		40	Heterotheca		
07GC001	GC	В	32	2007	HETSUB	HESU3	1	40	subaxillaris	4	
07GC001	GC	В	32	2007	MUNSQU	MUSQ3	8	10	Munroa	3	
076001	GC	Ь	32	2007	MUNSQU	MUSQS	0	10	squarrosa Paspalum	3	
									setaceum var.		
07GC001	GC	В	32	2007	PASSETS	PASES	0.1	5	stramineum	3	
070001	00		52	2001	TAGGETO	TAGEG	0.1		Plantago	3	
07GC001	GC	В	32	2007	PLAWRI4	PLWR	0.1	5	wrightiana	4	F24
27 2 2 2 3 1		_	02	2007	, ., ., ., ., .,		0.1		Quercus	7	'
07GC001	GC	В	32	2007	QUEHAV	QUHA3	50	40	havardii	2	
		_				.,			Schizachyrium	_	
07GC001	GC	В	32	2007	SCHSCO	SCSC	5	36	scoparium	3	
									Xanthisma		
									texanum ssp.		
07GC001	GC	В	32	2007	XANTEXD	XATED2	0.5	18	drummondii	4	
07GC001	GC	В	42	2007	AMBPSI	AMPS	0.1	17	Ambrosia	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									psilostachya		
									Bouteloua		
07GC001	GC	В	42	2007	BOUCUR	BOCU	0.5	15	curtipendula	3	
									Bouteloua		
07GC001	GC	В	42	2007	BOUHIR	BOHI2	2	7	hirsuta	3	
									Calylophus		
07GC001	GC	В	42	2007	CALSER	CASE12	3	26	serrulatus	4	07GC001- F19
									Chamaesyce		
07GC001	GC	В	42	2007	CHAMIS	CHMI8	1	32	missurica	4	07GC001- F32
									Commelina		
07GC001	GC	В	42	2007	COMERE	COER	1	15	erecta	4	
07GC001	GC	В	42	2007	CROTEX	CRTE4	2	36	Croton texensis	4	
									Cryptantha		
07GC001	GC	В	42	2007	CRYCIN	CRCI3	0.1	16	cinerea	4	
									Cycloloma		
07GC001	GC	В	42	2007	CYCATR	CYAT	0.5	40	atriplicifolium	4	
									Eriogonum		
07GC001	GC	В	42	2007	ERIANN	ERAN4	0.1	53	annuum	4	
									Helianthus		
									petiolaris ssp.		
07GC001	GC	В	42	2007	HELPETP	HEPEP	0.5	54	petiolaris	4	HELPET
		_							Heterotheca		
07GC001	GC	В	42	2007	HETSUB	HESU3	1	38	subaxillaris	4	07GC001- F8
.=									Linum rigidum	_	.=0.0004 =40
07GC001	GC	В	42	2007	LINRIGR	LIRIR	2	32	var. rigidum	4	07GC001- F16
0700004	00	_	40	0007	DALCOLL	DACD	0.4	04	Palafoxia		
07GC001	GC	В	42	2007	PALSPH	PASP	0.1	21	sphacelata	4	
									Paspalum		
07GC001	GC	В	42	2007	PASSETS	PASES	3	20	setaceum var. stramineum	3	
076001	GC	Ь	42	2007	PASSETS	PASES	<u> </u>	20	Quercus	3	
07GC001	GC	В	42	2007	QUEHAV	QUHA3	7	25	havardii	2	
0760001	GC	Б	42	2007	QUEHAV	QUNAS	1	23	Schizachyrium		
07GC001	GC	В	42	2007	SCHSCO	SCSC	40	40	scoparium	3	
07 00001	- 50		44	2001	3011300	3030	40	+0	Andropogon	3	
07GC001	GC	С	2	2007	ANDHAL	ANHA	1.5	30	hallii	3	
07 00001				2001	ANDIIAL	7 11 11 17 1	1.5	- 50	Bouteloua	3	
07GC001	GC	С	2	2007	BOUCUR	BOCU	1	12	curtipendula	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Bouteloua		
07GC001	GC	С	2	2007	BOUHIR	BOHI2	2	8	hirsuta	3	
									Calylophus		
07GC001	GC	С	2	2007	CALSER	CASE12	6	22	serrulatus	4	07GC001- F19
									Chamaesyce		
07GC001	GC	С	2	2007	CHAGLY	CHGL13	0.5	3	glyptosperma	4	07GC001- F14
									Chamaesyce		
07GC001	GC	С	2	2007	CHAMIS	CHMI8	0.5	13	missurica	4	07GC001- F32
		_							Cyperus		
07GC001	GC	С	2	2007	CYPRET	CYRE14	0.1	12	retroflexus	3	07GC001- G14
l <b>_</b>			_						Eragrostis	_	
07GC001	GC	С	2	2007	ERASEC	ERSE	0.1	24	secundiflora	3	07GC001- G10
.=									Froelichia		
07GC001	GC	С	2	2007	FROGRA	FRGR3	0.1	11	gracilis	4	
270001				0007	OLITOAD.	011040		40	Gutierrezia		
07GC001	GC	С	2	2007	GUTSAR	GUSA2	8	40	sarothrae	2.5	
0700004	00			0007	LIETOLID	LIEOLIO	0.5	40	Heterotheca		
07GC001	GC	С	2	2007	HETSUB	HESU3	0.5	16	subaxillaris	4	
0700004	GC		_	2007	LECMILO	LEMILO	0.4		Lechea		0700004 F07
07GC001	GC	С	2	2007	LECMUC	LEMU3	0.1	8	mucronata Mimosa	4	07GC001- F27
									quadrivalvis var.		
07GC001	GC	С	2	2007	MIMQUAO	MIQUO	0.1	3	occidentalis	4	07GC001-S1
07 GC001	GC			2001	MINIQUAU	MIGOO	0.1	3	Palafoxia	4	0790001-31
07GC001	GC	С	2	2007	PALSPH	PASP	0.1	18	sphacelata	4	
07 00001	00			2001	1 ALOI II	1 701	0.1	10	Paspalum		
									setaceum var.		
07GC001	GC	С	2	2007	PASSETS	PASES	5	12	stramineum	3	
070001				2007	17.00210	171020		12	Quercus		
07GC001	GC	С	2	2007	QUEHAV	QUHA3	30	45	havardii	2	
2. 22331						23.17.0			Schizachyrium		
07GC001	GC	С	2	2007	SCHSCO	SCSC	15	32	scoparium	3	
		-							Xanthisma		
07GC001	GC	С	2	2007	XANSPI2	MAPI	0.1	15	spinulosum	4	
									Andropogon		
07GC001	GC	С	12	2007	ANDHAL	ANHA	9	45	hallii	3	
									Bouteloua		
07GC001	GC	С	12	2007	BOUHIR	BOHI2	4	10	hirsuta	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Calylophus		
07GC001	GC	С	12	2007	CALSER	CASE12	1	20	serrulatus	4	07GC001- F19
									Chamaesyce		
07GC001	GC	С	12	2007	CHAGLY	CHGL13	0.5	2	glyptosperma	4	07GC001- F14
									Chamaesyce		
07GC001	GC	С	12	2007	CHAMIS	CHMI8	0.5	17	missurica	4	07GC001- F32
									Cycloloma		
07GC001	GC	С	12	2007	CYCATR	CYAT	0.1	4	atriplicifolium	4	
									Cyperus		
07GC001	GC	С	12	2007	CYPRET	CYRE14	0.1	30	retroflexus	3	07GC001- G14
07GC001	GC	С	12	2007	DALPUR	DAPU5	1	10	Dalea purpurea	4	07GC001- F38
.=00004									Eragrostis		
07GC001	GC	С	12	2007	ERASEC	ERSE	2	25	secundiflora	3	07GC001- G10
0700004	00		40	0007	EDOOD A	ED O D O	0.4	_	Froelichia		
07GC001	GC	С	12	2007	FROGRA	FRGR3	0.1	5	gracilis	4	
0700004	GC		40	2007	LECMILIC	LEMILO	0.4		Lechea	4	0700004 F07
07GC001	GC	С	12	2007	LECMUC	LEMU3	0.1	8	mucronata	4	07GC001- F27
07GC001	GC	С	12	2007	MELLEU	MELE2	8	22	Melampodium leucanthum	4	
07GC001	GC	C	12	2007	MIRLIN	MILI3	0.1	50	Mirabilis linearis	4	07GC001- F36
0790001	GC	C	12	2007	IVIIIN	IVIILIS	0.1	50	Paronychia	4	0790001-130
07GC001	GC	С	12	2007	PARJAM	PAJA	2	6	jamesii	4	
070001	00	C	12	2001	1 AINDAW	ΙΛυΛ		- 0	Paspalum		
									setaceum var.		
07GC001	GC	С	12	2007	PASSETS	PASES	1	10	stramineum	3	
									Quercus		
07GC001	GC	С	12	2007	QUEHAV	QUHA3	11	40	havardii	2	
									Schizachyrium		
07GC001	GC	С	12	2007	SCHSCO	SCSC	10	30	scoparium	3	
									Sporobolus		
07GC001	GC	С	12	2007	SPOCRY	SPCR	1	18	cryptandrus	3	
									Ambrosia		
07GC001	GC	С	22	2007	AMBPSI	AMPS	0.1	35	psilostachya	4	
									Aristida		
07GC001	GC	С	22	2007	ARIPUR	ARPU9	1	22	purpurea	3	
									Bouteloua		
07GC001	GC	С	22	2007	BOUHIR	BOHI2	0.5	12	hirsuta	3	
07GC001	GC	С	22	2007	CALSER	CASE12	5	21	Calylophus	4	07GC001- F19

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									serrulatus		
									Chamaesyce		
07GC001	GC	С	22	2007	CHAMIS	CHMI8	0.5	28	missurica	4	07GC001- F32
									Chenopodium		
07GC001	GC	С	22	2007	CHECYC	CHCY	0.1	8	cycloides	4	07GC001- F28
									Cycloloma		
07GC001	GC	С	22	2007	CYCATR	CYAT	0.1	3	atriplicifolium	4	
									Paspalum		
0700004	00		00	0007	DAGGETO	DAGEG		4-	setaceum var.		
07GC001	GC	С	22	2007	PASSETS	PASES	2	15	stramineum	3	
07GC001	GC	С	22	2007	QUEHAV	QUHA3	50	42	Quercus havardii	2	
076001	GC	C		2007	QUEHAV	QUIAS	50	42	Schizachyrium		
07GC001	GC	С	22	2007	SCHSCO	SCSC	40	30	scoparium	3	
070001	GC	C		2001	3011300	3030	40	30	Thelesperma	3	
07GC001	GC	С	22	2007	THEMEG	THME	0.1	50	megapotamicum	4	
070001				2001	111211120	1111112	0.1	- 00	Xanthisma		
07GC001	GC	С	22	2007	XANSPI2	MAPI	18	0.5	spinulosum	4	
									Ambrosia		
07GC001	GC	С	32	2007	AMBPSI	AMPS	0.5	22	psilostachya	4	
									Andropogon		
07GC001	GC	С	32	2007	ANDHAL	ANHA	10	60	hallii	3	
									Calylophus		
07GC001	GC	С	32	2007	CALSER	CASE12	3	30	serrulatus	4	07GC001- F19
									Chenopodium		
07GC001	GC	С	32	2007	CHECYC	CHCY	0.1	14	cycloides	4	07GC001- F28
								_	Cycloloma	_	
07GC001	GC	С	32	2007	CYCATR	CYAT	0.1	6	atriplicifolium	4	
0700001	00		000	0007	ED 4 0 = 0	EDOE		4.0	Eragrostis	_	0700004 040
07GC001	GC	С	32	2007	ERASEC	ERSE	1	16	secundiflora	3	07GC001- G10
07GC001	GC	_	32	2007	LINRIGR	LIRIR	4	36	Linum rigidum		07GC001- F16
		С					0.5		var. rigidum	4	
07GC001	GC	С	32	2007	MIRLIN	MILI3	0.5	28	Mirabilis linearis Palafoxia	4	07GC001- F36
07GC001	GC	С	32	2007	PALSPH	PASP	0.1	8	sphacelata	4	
07 90001	30		32	2001	IALOFFI	I AUF	0.1	0	Quercus	4	
07GC001	GC	С	32	2007	QUEHAV	QUHA3	30	42	havardii	2	
07GC001	GC	C	32	2007	SCHSCO	SCSC	20	38	Schizachyrium	3	
070001			52	2001	3011000	1000		- 50	Comzachynam	<u> </u>	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									scoparium		
									Sporobolus		
07GC001	GC	С	32	2007	SPOCRY	SPCR	0.5	22	cryptandrus	3	
									Xanthisma		
	GC	С	32	2007	XANSPI2	MAPI	0.5	20	spinulosum	4	
07GC001	GC	С	32	2007	YUCGLA	YUGL	8	75	Yucca glauca	2	
									Ambrosia		
07GC001	GC	С	42	2007	AMBPSI	AMPS	2	35	psilostachya	4	
									Andropogon		
07GC001	GC	С	42	2007	ANDHAL	ANHA	4	60	hallii	3	
								_	Bouteloua		
07GC001	GC	С	42	2007	BOUHIR	BOHI2	0.5	7	hirsuta	3	
2700001	00		40	0007	01140114	0110140	0.4		Chamaesyce		0700004 544
07GC001	GC	С	42	2007	CHAGLY	CHGL13	0.1	2	glyptosperma	4	07GC001- F14
0700001	GC		40	2007	CDVCIN	CDCIO	4		Cryptantha		
07GC001	GC	С	42	2007	CRYCIN	CRCI3	1	8	cinerea Helianthus	4	
07GC001	GC	С	42	2007	HELPETP	HEPEP	1	50	petiolaris ssp. petiolaris	4	HELPET
0790001	GC	C	42	2007	HELFEIF	ПЕРЕР	1	50	Heterotheca	4	HELFEI
07GC001	GC	С	42	2007	HETVIL	HEVI4	2	37	villosa	4	07GC001- F37
070001	00		72	2001	TILIVIL	I I L V I T		31	Paspalum		0700001-137
									setaceum var.		
07GC001	GC	С	42	2007	PASSETS	PASES	3	30	stramineum	3	
0.000.									Quercus		
07GC001	GC	С	42	2007	QUEHAV	QUHA3	55	50	havardii	2	
									Schizachyrium		
07GC001	GC	С	42	2007	SCHSCO	SCSC	2	30	scoparium	3	
									Sporobolus		
07GC001	GC	С	42	2007	SPOCRY	SPCR	1	40	cryptandrus	3	
									Thelesperma		
07GC001	GC	С	42	2007	THEMEG	THME	2	65	megapotamicum	4	
									Ambrosia		
07GC001	GC	D	2	2007	AMBPSI	AMPS	2.5	34	psilostachya	4	
					_				Bouteloua		
07GC001	GC	D	2	2007	BOUHIR	BOHI2	4	12	hirsuta	3	
	00	_				0.05.15			Calylophus	_	
07GC001	GC	D	2	2007	CALSER	CASE12	6	24	serrulatus	4	07GC001- F19

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Chamaesyce		
07GC001	GC	D	2	2007	CHAFEN	CHFE3	0.5	2	fendleri	4	
									Chamaesyce		
07GC001	GC	D	2	2007	CHAGLY	CHGL13	2.5	2	glyptosperma	4	07GC001- F14
									Eragrostis		
07GC001	GC	D	2	2007	ERASEC	ERSE	3	16	secundiflora	3	07GC001- G10
.=		_			=5.44.5.			400	Eriogonum		
07GC001	GC	D	2	2007	ERIANN	ERAN4	0.5	100	annuum	4	
0700004	00	<b>D</b>		0007	EDOOD A	EDOD0	0.4		Froelichia		
07GC001	GC	D	2	2007	FROGRA	FRGR3	0.1	3	gracilis	4	
07GC001	GC	D	2	2007	LECMUC	LEMU3	0.5	17	Lechea mucronata	4	07GC001- F27
076001	GC	ע		2007	LECIVIOC	LEIVIU3	0.5	17	Paspalum	4	0/GC001-F2/
									setaceum var.		
07GC001	GC	D	2	2007	PASSETS	PASES	0.5	8	stramineum	3	
070001	00			2001	TAGGETO	TAGEG	0.5	- 0	Quercus	J	
07GC001	GC	D	2	2007	QUEHAV	QUHA3	25	55	havardii	2	
									Schizachyrium	_	
07GC001	GC	D	2	2007	SCHSCO	SCSC	30	30	scoparium	3	
									Ambrosia		
07GC001	GC	D	12	2007	AMBPSI	AMPS	1	32	psilostachya	4	
									Andropogon		
07GC001	GC	D	12	2007	ANDHAL	ANHA	8	70	hallii	3	
									Bouteloua		
07GC001	GC	D	12	2007	BOUHIR	BOHI2	2	12	hirsuta	3	
		_							Calylophus		
07GC001	GC	D	12	2007	CALSER	CASE12	1	30	serrulatus	4	07GC001- F19
0700004	00	_	40	0007	CLIACLY	0110140	0.5		Chamaesyce		0700004 544
07GC001	GC	D	12	2007	CHAGLY	CHGL13	0.5	2	glyptosperma	4	07GC001- F14
07GC001	GC	D	12	2007	ERASEC	ERSE	7	27	Eragrostis secundiflora	3	07GC001- G10
076001	GC	U	12	2007	ERASEC	ENSE	1	21	Eriogonum	3	0/30001-310
07GC001	GC	D	12	2007	ERIANN	ERAN4	0.1	45	annuum	4	
070001			12	2001			0.1	7.0	Linum rigidum		
07GC001	GC	D	12	2007	LINRIGR	LIRIR	2	50	var. rigidum	4	07GC001- F16
3. 55001	30		14					- 30	Lithospermum	1	3. 33331 110
07GC001	GC	D	12	2007	LITMUL	LIMU3	0.5	18	multiflorum	4	
07GC001	GC	D	12	2007	PALSPH	PASP	0.1	12	Palafoxia	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									sphacelata		
									Paspalum		
									setaceum var.		
07GC001	GC	D	12	2007	PASSETS	PASES	1	15	stramineum	3	
									Quercus		
07GC001	GC	D	12	2007	QUEHAV	QUHA3	30	40	havardii	2	
									Schizachyrium		
07GC001	GC	D	12	2007	SCHSCO	SCSC	15	35	scoparium	3	
.=						T. 13.45			Thelesperma	_	
07GC001	GC	D	12	2007	THEMEG	THME	0.5	50	megapotamicum	4	
0700004	00	_	20	2007	ANIDITAL	A N II I A	40	75	Andropogon		
07GC001	GC	D	22	2007	ANDHAL	ANHA	10	75	hallii Bouteloua	3	
07GC001	GC	D	22	2007	BOUHIR	BOHI2	4	12	hirsuta	3	
076001	GC	ט		2007	BOUNK	ВОПІЗ	4	12	Chamaesyce	3	
07GC001	GC	D	22	2007	CHAGLY	CHGL13	0.5	2	glyptosperma	4	07GC001- F14
076001	GC			2001	CHAGLI	CHGLIS	0.5		Commelina	4	0790001-114
07GC001	GC	D	22	2007	COMERE	COER	3	14	erecta	4	
070001	00			2001	OOMERE	OOLIK	0	17	Dalea villosa	<u> </u>	
07GC001	GC	D	22	2007	DALVILV	DAVIV	0.5	20	var. villosa	4	07GC001-F40
		_					0.10		Eragrostis		
07GC001	GC	D	22	2007	ERASEC	ERSE	3	22	secundiflora	3	07GC001- G10
									Froelichia		
07GC001	GC	D	22	2007	FROGRA	FRGR3	0.1	4	gracilis	4	
									Lechea		
07GC001	GC	D	22	2007	LECMUC	LEMU3	0.1	5	mucronata	4	07GC001- F27
									Linum rigidum		
07GC001	GC	D	22	2007	LINRIGR	LIRIR	2	52	var. rigidum	4	07GC001- F16
									Palafoxia		
07GC001	GC	D	22	2007	PALSPH	PASP	0.1	11	sphacelata	4	
.=									Paronychia	_	
07GC001	GC	D	22	2007	PARJAM	PAJA	8	15	jamesii	4	
									Paspalum		
0700004	66	D	22	2007	DACCETO	DACEC	1.5	22	setaceum var.		
07GC001	GC	D	22	2007	PASSETS	PASES	15	22	stramineum	3	
07GC001	GC	D	22	2007	QUEHAV	QUHA3	25	45	Quercus havardii	2	
07GC001	GC	D D	22	2007	SCHSCO	SCSC	25	35		3	
0760001	GC	ען		2007	300300	3030		35	Schizachyrium	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									scoparium		
									Thelesperma		
07GC001	GC	D	22	2007	THEMEG	THME	3	24	megapotamicum	4	
									Ambrosia		
07GC001	GC	D	32	2007	AMBPSI	AMPS	3	40	psilostachya	4	
									Andropogon		
07GC001	GC	D	32	2007	ANDHAL	ANHA	10	60	hallii	3	
									Artemisia		
07GC001	GC	D	32	2007	ARTDRA	ARDR4	0.1	8	dracunculus	4	
									Chamaesyce		
07GC001	GC	D	32	2007	CHAGLY	CHGL13	0.1	2	glyptosperma	4	07GC001- F14
		_							Commelina	_	
07GC001	GC	D	32	2007	COMERE	COER	0.1	12	erecta	4	
									Helianthus		
.=		_							petiolaris ssp.		
07GC001	GC	D	32	2007	HELPETP	HEPEP	2.5	35	petiolaris	4	HELPET
.=		_							Lithospermum		
07GC001	GC	D	32	2007	LITMUL	LIMU3	0.5	17	multiflorum	4	
0700004	00	_	00	0007	OLIELIA)/	0111140	40	0.5	Quercus		
07GC001	GC	D	32	2007	QUEHAV	QUHA3	40	35	havardii	2	
0700004	GC	D	20	0007	0011000	0000	40	200	Schizachyrium		
07GC001	GC	D	32	2007	SCHSCO	SCSC	10	32	scoparium	3	
07GC001	GC	D	32	2007	THEMEG	THME	0.5	70	Thelesperma megapotamicum	4	
07 GC001	GC	U	32	2007	THEMEG	I I IIVIL	0.5	70	Ambrosia	4	
07GC001	GC	D	42	2007	AMBPSI	AMPS	1	35	psilostachya	4	
07 GC001	GC	D	42	2007	AIVIDE SI	AIVIFO		33	Andropogon	4	
07GC001	GC	D	42	2007	ANDHAL	ANHA	7	80	hallii	3	
07 00001	00		72	2001	ANDITAL	ANTIA	, , , , , , , , , , , , , , , , , , ,	- 00	Cyperus	3	
07GC001	GC	D	42	2007	CYPRET	CYRE14	0.1	55	retroflexus	3	07GC001- G14
07 00001	30	ر ا	74	2001	O I I IL	JINLIA	0.1	- 55	Linum rigidum	J	07 00001-014
07GC001	GC	D	42	2007	LINRIGR	LIRIR	1	37	var. rigidum	4	07GC001- F16
3, 20001	. 30		72	2001			-	- 5,	Paspalum		3. 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
									setaceum var.		
07GC001	GC	D	42	2007	PASSETS	PASES	2	16	stramineum	3	
07GC001	GC	D	42	2007	PENSTE	PENST	0.5	5	Penstemon spp.	4	07GC001-F42
0.0001			12	2007	. 2.4012	. 21101	0.0		Polanisia	<del>_</del>	3. 30001112
07GC001	GC	D	42	2007	POLJAM	POJA3	0.1	18	jamesii	4	F41

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Quercus		
07GC001	GC	D	42	2007	QUEHAV	QUHA3	17	35	havardii	2	
									Schizachyrium		
07GC001	GC	D	42	2007	SCHSCO	SCSC	28	30	scoparium	3	
									Aristida		
07GC001	GC	E	2	2007	ARIPUR	ARPU9	3	25	purpurea	3	
									Bouteloua		
07GC001	GC	E	2	2007	BOUHIR	BOHI2	2	18	hirsuta	3	
									Calylophus		
07GC001	GC	E	2	2007	CALSER	CASE12	1.5	33	serrulatus	4	07GC001- F19
									Chamaesyce		
07GC001	GC	Е	2	2007	CHAGLY	CHGL13	0.1	2	glyptosperma	4	07GC001- F14
									Commelina		
07GC001	GC	Е	2	2007	COMERE	COER	0.5	7	erecta	4	
									Cycloloma		
07GC001	GC	Е	2	2007	CYCATR	CYAT	0.1	18	atriplicifolium	4	
		_							Cyperus	_	
07GC001	GC	Е	2	2007	CYPRET	CYRE14	1	40	retroflexus	3	07GC001- G14
		_							Digitaria		
07GC001	GC	Е	2	2007	DIGPUB	DIPU9	3	23	pubiflora	3	
0700004		_		0007	ED00D4	ED 0 D 0			Froelichia		
07GC001	GC	Е	2	2007	FROGRA	FRGR3	0.1	36	gracilis	4	
0700004	00	_		0007	OUTOAD	011040	_	4.5	Gutierrezia	0.5	
07GC001	GC	Е	2	2007	GUTSAR	GUSA2	5	45	sarothrae	2.5	
0700004	00	_		0007	DALCOLL	DACD	0.4	00	Palafoxia		
07GC001	GC	Е	2	2007	PALSPH	PASP	0.1	22	sphacelata	4	
									Paspalum setaceum var.		
07GC001	GC	E	2	2007	PASSETS	PASES	4	20	stramineum	3	
076001	GC	<b>L</b>		2007	PASSETS	PASES	4	20	Quercus	3	
07GC001	GC	E	2	2007	QUEHAV	QUHA3	42	40	havardii	2	
076001	GC	<u> </u>		2007	QUEITAV	QUIIAS	42	40	Schizachyrium		
07GC001	GC	E	2	2007	SCHSCO	SCSC	6	45	scoparium	3	
070001	_ 50	<u> </u>		2001	3011300	3030		+0	Sporobolus	3	
07GC001	GC	E	2	2007	SPOCRY	SPCR	0.1	22	cryptandrus	3	
070001	. 50			2001	OI COIXI	OI OIX	0.1		Aristida	<u> </u>	
07GC001	GC	E	12	2007	ARIPUR	ARPU9	10	20	purpurea	3	
07GC001	GC	E	12	2007	COMERE	COER	0.5	30	Commelina	4	
07 90001	- UC	_	12	2007	COMERE	JOLIN	0.5	50	Commenna	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									erecta		
07GC001	GC	Е	12	2007	CROTEX	CRTE4	1.5	32	Croton texensis	4	
07GC001	GC	E	12	2007	CYCATR	CYAT	0.5	6	Cycloloma atriplicifolium	4	
									Cyperus		
07GC001	GC	E	12	2007	CYPRET	CYRE14	2	8	retroflexus	3	07GC001- G14
07GC001	GC	E	12	2007	ERIANN	ERAN4	1.5	35	Eriogonum annuum	4	
070001	00	<u> </u>	12	2001	LIXIAININ	LIVAINT	1.5	33	Helianthus		
07GC001	GC	E	12	2007	HELPETP	HEPEP	4	38	petiolaris ssp. petiolaris	4	HELPET
									Munroa		
07GC001	GC	E	12	2007	MUNSQU	MUSQ3	6	6	squarrosa	3	
07GC001	GC	E	12	2007	PASSETS	PASES	20	20	Paspalum setaceum var. stramineum	3	
07 GC001	GC	_ <b>L</b>	12	2001	FAGGLIG	FAGES	20	20	Quercus	3	
07GC001	GC	Е	12	2007	QUEHAV	QUHA3	35	36	havardii	2	
07GC001	GC	E	12	2007	SPOCRY	SPCR	5	15	Sporobolus cryptandrus	3	
07GC001	GC	E	22	2007	AMBPSI	AMPS	0.5	42	Ambrosia psilostachya	4	
									Aristida		
07GC001	GC	E	22	2007	ARIPUR	ARPU9	0.1	22		3	
07GC001	GC	Е	22	2007	BOUHIR	BOHI2	15	20	Bouteloua hirsuta	3	
									Calylophus		
07GC001	GC	Е	22	2007	CALSER	CASE12	1.5	24	serrulatus	4	07GC001- F19
07GC001	GC	E	22	2007	CRYCIN	CRCI3	0.1	3	Cryptantha cinerea	4	
0.000.		_				0.10.0	<b></b>		Eragrostis		
07GC001	GC	Е	22	2007	ERASEC	ERSE	0.5	26	secundiflora	3	07GC001- G10
0700004	00	_	00	2007	LIEL DETE	LIEDED		00	Helianthus petiolaris ssp.		LIELDET
07GC001	GC	Е	22	2007	HELPETP	HEPEP	1	22	petiolaris	4	HELPET
07GC001	GC	E	22	2007	LITMUL	LIMU3	0.5	10	Lithospermum multiflorum	4	
07GC001	GC	E	22	2007	MIRLIN	MILI3	0.1	7	Mirabilis linearis	4	07GC001- F36

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Palafoxia		
07GC001	GC	E	22	2007	PALSPH	PASP	0.1	13	sphacelata	4	
									Paspalum		
									setaceum var.		
07GC001	GC	E	22	2007	PASSETS	PASES	6	20	stramineum	3	
									Quercus		
07GC001	GC	E	22	2007	QUEHAV	QUHA3	30	38	havardii	2	
		_							Schizachyrium	_	
07GC001	GC	Е	22	2007	SCHSCO	SCSC	28	30	scoparium	3	
.=		_			000001	0000			Sporobolus		
07GC001	GC	Е	22	2007	SPOCRY	SPCR	2	22	cryptandrus	3	
0700004	00	_	00	0007	THEME	T1 18 4F	0.4	40	Thelesperma	_	
07GC001	GC	Е	22	2007	THEMEG	THME	0.1	12	megapotamicum	4	
0700004	GC	E	20	2007	AMDDOL	AMDO	4.5	20	Ambrosia		
07GC001	GC	<u> </u>	32	2007	AMBPSI	AMPS	1.5	20	psilostachya Aristida	4	
07GC001	GC	Е	32	2007	ARIPUR	ARPU9	0.1	15	purpurea	3	
07 GC001	GC	<u> </u>	32	2007	ANIFUN	ARFUS	0.1	13	Bouteloua	3	
07GC001	GC	E	32	2007	BOUCUR	BOCU	0.5	20	curtipendula	3	
070001	00	_	52	2001	BOOCOK	ВОСО	0.5	20	Bouteloua	3	
07GC001	GC	E	32	2007	BOUHIR	BOHI2	8	12	hirsuta	3	
0.000.		_	02	2001	2001	301.112			Commelina		
07GC001	GC	E	32	2007	COMERE	COER	0.1	6	erecta	4	
								-	Dimorphocarpa	-	
07GC001	GC	E	32	2007	DIMWIS	DIWI2	0.1	27	wislizeni	4	
									Eriogonum		
07GC001	GC	E	32	2007	ERIANN	ERAN4	0.1	25	annuum	4	
									Paspalum		
									setaceum var.		
07GC001	GC	E	32	2007	PASSETS	PASES	3	15	stramineum	3	
									Quercus		
07GC001	GC	E	32	2007	QUEHAV	QUHA3	40	40	havardii	2	
<b>_</b>		_							Schizachyrium		
07GC001	GC	Е	32	2007	SCHSCO	SCSC	15	40	scoparium	3	
.=		_			00000	0000			Sporobolus	_	
07GC001	GC	Е	32	2007	SPOCRY	SPCR	0.5	30	cryptandrus	3	
0700004		_	0.0	0007	THEMES	TUNAF		4.0	Thelesperma		
07GC001	GC	E	32	2007	THEMEG	THME	0.1	10	megapotamicum	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									·		F4 on data sheet,
									Townsendia		but specimen
07GC001	GC	E	32	2007	TOWEXS	TOEX2	0.5	4	exscapa	4	F45 on plot sheet
									Ambrosia		
07GC001	GC	E	42	2007	AMBPSI	AMPS	1	22	psilostachya	4	
									Andropogon		
07GC001	GC	E	42	2007	ANDHAL	ANHA	6	30	hallii	3	
		_							Aristida		
07GC001	GC	Е	42	2007	ARIPUR	ARPU9	15	26	purpurea	3	
		_			01115	011550			Chamaesyce		
07GC001	GC	Е	42	2007	CHAFEN	CHFE3	0.1	2	fendleri	4	
0700004	00	_	40	0007	OVOATD	OVAT	0.4	_	Cycloloma		
07GC001	GC	Е	42	2007	CYCATR	CYAT	0.1	5	atriplicifolium	4	
0700004	GC	E	40	2007	CYPRET	CYRE14		12	Cyperus retroflexus		07GC001- G14
07GC001	GC	E	42	2007	CYPRET	CYRE14	1	12		3	07GC001-G14
07GC001	GC	E	42	2007	PARJAM	PAJA	0.1	12	Paronychia jamesii	4	
076001	GC	<u> </u>	42	2007	PARJAIVI	PAJA	0.1	12	Paspalum	4	
									setaceum var.		
07GC001	GC	E	42	2007	PASSETS	PASES	0.5	6	stramineum	3	
070001	- 00	_	72	2001	TAGGETO	171020	0.0		Quercus		
07GC001	GC	E	42	2007	QUEHAV	QUHA3	15	34	havardii	2	
0.000.		_				<u> </u>			Schizachyrium	_	
07GC001	GC	E	42	2007	SCHSCO	SCSC	30	35	scoparium	3	
									Thelesperma		
07GC001	GC	E	42	2007	THEMEG	THME	1.5	30	megapotamicum	4	
									Ambrosia		
07GC001	GC	F	2	2007	AMBPSI	AMPS	0.1	3	psilostachya	4	
									Andropogon		
07GC001	GC	F	2	2007	ANDHAL	ANHA	0.5	40	hallii	3	
									Bouteloua		
07GC001	GC	F	2	2007	BOUHIR	BOHI2	5	12	hirsuta	3	
									Calylophus		
07GC001	GC	F	2	2007	CALSER	CASE12	3	17	serrulatus	4	07GC001- F19
									Chamaesyce		
07GC001	GC	F	2	2007	CHAGLY	CHGL13	0.1	2	071	4	07GC001- F14
		_				0055			Commelina	_	
07GC001	GC	F	2	2007	COMERE	COER	0.1	12	erecta	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Cryptantha		
07GC001	GC	F	2	2007	CRYCIN	CRCI3	0.1	23	cinerea	4	
									Gutierrezia		
07GC001	GC	F	2	2007	GUTSAR	GUSA2	4	25	sarothrae	2.5	
									Helianthus		
070001		_		0007	LIEL DETE	LIEDED			petiolaris ssp.		LIEL DET
07GC001	GC	F	2	2007	HELPETP	HEPEP	0.1	9	petiolaris	4	HELPET
07GC001	GC	F	2	2007	LITMUL	LIMU3	0.1	15	Lithospermum multiflorum	4	
076001	GC	<b>F</b>		2007	LITIVIOL	LIIVIUS	0.1	10	Paspalum	4	
									setaceum var.		
07GC001	GC	F	2	2007	PASSETS	PASES	0.1	2	stramineum	3	
070001		•		2001	TAGGETG	171020	0.1		Quercus	U	
07GC001	GC	F	2	2007	QUEHAV	QUHA3	3	25	havardii	2	
		-							Schizachyrium		
07GC001	GC	F	2	2007	SCHSCO	SCSC	30	30	scoparium	3	
									Ambrosia		
07GC001	GC	F	12	2007	AMBPSI	AMPS	0.1	15	psilostachya	4	
									Andropogon		
07GC001	GC	F	12	2007	ANDHAL	ANHA	1	40	hallii	3	
		_							Aristida		
07GC001	GC	F	12	2007	ARIPUR	ARPU9	0.5	18	purpurea	3	
0700004		_	4.0	0007	50111115	DO1110	_	4.0	Bouteloua		
07GC001	GC	F	12	2007	BOUHIR	BOHI2	5	18	hirsuta	3	
07GC001	GC	F	12	2007	COMERE	COER	1.5	20	Commelina	4	
07GC001	GC	<b>F</b>	12	2007	COMERE	COER	1.5	20	erecta Cyperus	4	
07GC001	GC	F	12	2007	CYPRET	CYRE14	0.5	0	retroflexus	3	07GC001- G14
070001	- 00	•	12	2001	OTTINET	OTIVETA	0.5	0	Gutierrezia	3	0700001 014
07GC001	GC	F	12	2007	GUTSAR	GUSA2	3	25	sarothrae	2.5	
3. 2 3001		-			30.3,				Hymenopappus		
									flavescens var.		
07GC001	GC	F	12	2007	HYMFLAC	HYFLC	1	50	canotomentosus	4	07GC001- F7
									Lithospermum		
07GC001	GC	F	12	2007	LITMUL	LIMU3	0.5	16	multiflorum	4	
									Paspalum		
070000:		_		000-	D. 00==0	54056	_		setaceum var.		
07GC001	GC	F	12	2007	PASSETS	PASES	2	22	stramineum	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Quercus		
07GC001	GC	F	12	2007	QUEHAV	QUHA3	15	40	havardii	2	
									Schizachyrium		
07GC001	GC	F	12	2007	SCHSCO	SCSC	40	35	scoparium	3	
									Sporobolus		
07GC001	GC	F	12	2007	SPOCRY	SPCR	6	22	cryptandrus	3	
									Xanthisma		
07GC001	GC	F	12	2007	XANSPI2	MAPI	1.5	15	spinulosum	4	
									Andropogon		
07GC001	GC	F	22	2007	ANDHAL	ANHA	7	45	hallii	3	
									Aristida		
07GC001	GC	F	22	2007	ARIPUR	ARPU9	5	15	purpurea	3	
									Bouteloua		
07GC001	GC	F	22	2007	BOUHIR	BOHI2	8	8	hirsuta	3	
									Calylophus		
07GC001	GC	F	22	2007	CALSER	CASE12	1	16	serrulatus	4	07GC001- F19
									Chamaesyce		
07GC001	GC	F	22	2007	CHAGLY	CHGL13	0.5	2	0 71 1	4	07GC001- F14
									Cryptantha		
07GC001	GC	F	22	2007	CRYCIN	CRCI3	0.5	8	1	4	
									Heterotheca		
07GC001	GC	F	22	2007	HETVIL	HEVI4	0.1	6	villosa	4	07GC001- F37
									Paronychia		
07GC001	GC	F	22	2007	PARJAM	PAJA	4	7	jamesii	4	
									Paspalum		
									setaceum var.		
07GC001	GC	F	22	2007	PASSETS	PASES	1	20	stramineum	3	
		_							Quercus		
07GC001	GC	F	22	2007	QUEHAV	QUHA3	2	27	havardii	2	
.=		_			0011000	0000			Schizachyrium		
07GC001	GC	F	22	2007	SCHSCO	SCSC	20	20	scoparium	3	
0700004		_	00	0007	000000	ODOD	_	00	Sporobolus		
07GC001	GC	F	22	2007	SPOCRY	SPCR	4	30	cryptandrus	3	
0700004	00	_	00	0007	DOLUU'D	DOLUG			Bouteloua		
07GC001	GC	F	32	2007	BOUHIR	BOHI2	8	15	hirsuta	3	
0700001	00	_	00	0007	CALCED	040540		00	Calylophus	_	0700004 540
07GC001	GC	F	32	2007	CALSER	CASE12	1	20	serrulatus	4	07GC001- F19
07GC001	GC	F	32	2007	CHAGLY	CHGL13	0.1	2	Chamaesyce	4	07GC001- F14

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									glyptosperma		
									Commelina		
07GC001	GC	F	32	2007	COMERE	COER	3	24	erecta	4	
									Cyperus		
07GC001	GC	F	32	2007	CYPRET	CYRE14	0.5	12	retroflexus	3	07GC001- G14
									Evolvulus		
07GC001	GC	F	32	2007	EVOSER	EVSE	2.5	14	sericeus	4	07GC001- F34
									Linum rigidum		
07GC001	GC	F	32	2007	LINRIGR	LIRIR	3	40	var. rigidum	4	07GC001- F16
									Lithospermum		
07GC001	GC	F	32	2007	LITMUL	LIMU3	1	15	multiflorum	4	
									Palafoxia		
07GC001	GC	F	32	2007	PALSPH	PASP	0.1	5	sphacelata	4	
									Paspalum		
		_							setaceum var.		
07GC001	GC	F	32	2007	PASSETS	PASES	8	18	stramineum	3	
		_							Plantago		
07GC001	GC	F	32	2007	PLAWRI4	PLWR	0.1	12	wrightiana	4	F24
0700004		_		0007	011511417	0111140	4-	4-	Quercus		
07GC001	GC	F	32	2007	QUEHAV	QUHA3	15	45	havardii	2	
0700004		_		0007	0011000	0000	40	00	Schizachyrium		
07GC001	GC	F	32	2007	SCHSCO	SCSC	40	32	scoparium	3	
0700004	GC	F	20	0007	CDCCDV	SPCR		00	Sporobolus		
07GC001	GC	Г	32	2007	SPOCRY	SPUR	1	20	cryptandrus	3	
07GC001	GC	F	42	2007	ANDHAL	ANHA	2	60	Andropogon hallii	3	
076001	GC	Г	42	2007	ANDHAL	AINHA		60	Aristida	3	
07GC001	GC	F	42	2007	ARIPUR	ARPU9		15		3	
076001	GC	Г	42	2007	AKIPUK	ARPU9	1	13	purpurea Bouteloua	3	
07GC001	GC	F	42	2007	BOUCUR	BOCU	3	25	curtipendula	3	
076001	GC	F	42	2007	BOUCUR	ВОСО	3	25	Bouteloua	3	
07GC001	GC	F	42	2007	BOUHIR	BOHI2	2	10	hirsuta	3	
07 90001		ı	44	2007	DOO! IIIX	DOTTIZ		10	Brickellia	3	
									eupatorioides		
07GC001	GC	F	42	2007	BRIEUPC	BREUC2	8	58	var. chlorolepis	2.5	07GC001-S5
37 3 3 3 3 3		•	72	2007	D. VILOI O	DIVEOUL	- 0	- 55	Calylophus	2.0	0,000100
07GC001	GC	F	42	2007	CALSER	CASE12	3	35	serrulatus	4	07GC001- F19
07GC001	GC	F	42	2007	CHAGLY	CHGL13	0.1	2	Chamaesyce	4	07GC001-F14
070001		•	72	2007	CHAOLI	GIGEIS	0.1		Chamaesyce	- 4	07 00001-1 14

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									glyptosperma		
									Commelina		
07GC001	GC	F	42	2007	COMERE	COER	0.1	5	erecta	4	
									Digitaria		
07GC001	GC	F	42	2007	DIGPUB	DIPU9	18	25	pubiflora	3	
									Evolvulus		
07GC001	GC	F	42	2007	EVOSER	EVSE	1	20	sericeus	4	07GC001- F34
									Heterotheca		
07GC001	GC	F	42	2007	HETVIL	HEVI4	0.5	14	villosa	4	07GC001- F37
									Lorandersonia		
07GC001	GC	F	42	2007	LORPUL	CHPU4	0.5	60	pulchella	2	07GC001-S4
									Palafoxia		
07GC001	GC	F	42	2007	PALSPH	PASP	0.1	22	sphacelata	4	
									Paspalum		
									setaceum var.		
07GC001	GC	F	42	2007	PASSETS	PASES	2	20	stramineum	3	
									Quercus		
07GC001	GC	F	42	2007	QUEHAV	QUHA3	40	45	havardii	2	
									Schizachyrium		
07GC001	GC	F	42	2007	SCHSCO	SCSC	10	28	scoparium	3	
		_	_				_		Ambrosia		
07GC001	GC	G	2	2007	AMBPSI	AMPS	6	45	psilostachya	4	
.=					4 5 15 1 15	4.0.0116			Aristida		
07GC001	GC	G	2	2007	ARIPUR	ARPU9	12	25	purpurea	3	
0700004				0007	50111115	DOLUG		4-	Bouteloua		
07GC001	GC	G	2	2007	BOUHIR	BOHI2	1	15	hirsuta	3	
0700004	00			0007	OLIFOYO	01101/	0.4	00	Chenopodium		0700004 500
07GC001	GC	G	2	2007	CHECYC	CHCY	0.1	20	cycloides	4	07GC001- F28
0700004	00			0007	ODVOIN	ODOIO	0.5	00	Cryptantha		
07GC001	GC	G	2	2007	CRYCIN	CRCI3	0.5	28	cinerea	4	
07GC001	GC	G	2	2007	ERASEC	ERSE	_	25	Eragrostis secundiflora		07GC001- G10
0760001	GC	G		2007	ERASEU	EKSE	2		Palafoxia	3	0760001-610
07GC001	GC	G	2	2007	PALSPH	PASP	0.1	17		4	
076001	GC	G		2007	FALSFII	FASE	0.1	17	sphacelata	4	
07GC001	GC	G	2	2007	PASSMI	PASM	4	25	Pascopyrum smithii	3	
07 90001	30	9		2001	1 AOOIVII	I AOIVI	4	20	Quercus	3	
07GC001	GC	G	2	2007	QUEHAV	QUHA3	50	45	havardii	2	
01 90001	Ju	J		2001	QULITAV	QUI IA3	<sub></sub> 50	40	navarun		

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Schizachyrium		
07GC001	GC	G	2	2007	SCHSCO	SCSC	10	30	scoparium	3	
									Bouteloua		
07GC001	GC	G	12	2007	BOUHIR	BOHI2	8	18	hirsuta	3	
									Chamaesyce		
07GC001	GC	G	12	2007	CHAGLY	CHGL13	5	2	glyptosperma	4	07GC001- F14
									Cryptantha		
07GC001	GC	G	12	2007	CRYCIN	CRCI3	1	30	cinerea	4	
		_							Cycloloma		
07GC001	GC	G	12	2007	CYCATR	CYAT	1	12	atriplicifolium	4	
		_							Eriogonum	_	
07GC001	GC	G	12	2007	ERIANN	ERAN4	1.5	55	annuum	4	
.=00004									Heterotheca	_	
07GC001	GC	G	12	2007	HETSUB	HESU3	3	28	subaxillaris	4	
0700004	00		40	0007	1 1-5 41 11	1 1841 10	0.5	40	Lithospermum		
07GC001	GC	G	12	2007	LITMUL	LIMU3	0.5	16	multiflorum	4	
0700004	00		40	2007	MUNICOLI	MUCOO	0.4	_	Munroa	2	
07GC001	GC	G	12	2007	MUNSQU	MUSQ3	0.1	6	squarrosa	3	
									Paspalum setaceum var.		
07GC001	GC	G	12	2007	PASSETS	PASES	10	20	stramineum	3	
076001	GC	G	12	2007	PASSETS	PASES	10	20	Quercus	3	
07GC001	GC	G	12	2007	QUEHAV	QUHA3	30	42	havardii	2	
070001	00	0	12	2001	QUELIAV	QUIIAO	30	74	Schizachyrium		
07GC001	GC	G	12	2007	SCHSCO	SCSC	12	38	scoparium	3	
070001			12	2001	3311000	0000	12	- 50	Sporobolus	J 3	
07GC001	GC	G	12	2007	SPOCRY	SPCR	1	22	cryptandrus	3	
2.0001					2. 33	J. 010			Thelesperma		
07GC001	GC	G	12	2007	THEMEG	THME	0.5	12	megapotamicum	4	
	_								Ambrosia		
07GC001	GC	G	22	2007	AMBPSI	AMPS	1.5	35	psilostachya	4	
									Bouteloua		
07GC001	GC	G	22	2007	BOUHIR	BOHI2	0.5	5	hirsuta	3	
									Chamaesyce		
07GC001	GC	G	22	2007	CHAGLY	CHGL13	0.5	2	glyptosperma	4	07GC001- F14
									Commelina		
07GC001	GC	G	22	2007	COMERE	COER	0.1	10	erecta	4	
07GC001	GC	G	22	2007	CRYCIN	CRCI3	1.5	8	Cryptantha	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									cinerea		
									Cyperus		
07GC001	GC	G	22	2007	CYPRET	CYRE14	0.5	10	retroflexus	3	07GC001- G14
									Eragrostis		
07GC001	GC	G	22	2007	ERASEC	ERSE	2	16	secundiflora	3	07GC001- G10
									Palafoxia		
07GC001	GC	G	22	2007	PALSPH	PASP	0.1	10	sphacelata	4	
									Paspalum		
.=					5.00==0	54050			setaceum var.		
07GC001	GC	G	22	2007	PASSETS	PASES	3	22	stramineum	3	
0700004	00		00	0007	OLIELIA)/	0111140	40	45	Quercus		
07GC001	GC	G	22	2007	QUEHAV	QUHA3	40	45	havardii	2	
0700004	00		00	0007	0011000	0000	00	20	Schizachyrium		
07GC001	GC	G	22	2007	SCHSCO	SCSC	20	30	scoparium	3	
0700001	GC	G	22	2007	SPOCRY	SPCR	0.5	40	Sporobolus	2	
07GC001	GC	G		2007	SPOCKY	SPCR	0.5	40	cryptandrus unidentified forb	3	
07GC001	GC	G	22	2007	UNIDFS		0.1	6	- seedling	4	
076001	GC	G		2007	UNIDES		0.1	0	Xanthisma	4	
07GC001	GC	G	22	2007	XANSPI2	MAPI	3	18	spinulosum	4	
07 00001	00	G		2001	AANOI IZ	IVIALI	3	10	Ambrosia		
07GC001	GC	G	32	2007	AMBPSI	AMPS	1.5	35	psilostachya	4	
070001	00	J	52	2001	AIVIDI OI	Aivii O	1.5	- 55	Aristida		
07GC001	GC	G	32	2007	ARIPUR	ARPU9	6	28	purpurea	3	
0.000.					7 ( 0	7			Bouteloua		
07GC001	GC	G	32	2007	BOUHIR	BOHI2	3	10	hirsuta	3	
						_		_	Commelina		
07GC001	GC	G	32	2007	COMERE	COER	3	26	erecta	4	
									Cryptantha		
07GC001	GC	G	32	2007	CRYCIN	CRCI3	0.5	20	cinerea	4	
									Digitaria		
07GC001	GC	G	32	2007	DIGPUB	DIPU9	1	22	pubiflora	3	
									Eragrostis		
07GC001	GC	G	32	2007	ERASEC	ERSE	0.5	22	secundiflora	3	07GC001- G10
									Eriogonum		
07GC001	GC	G	32	2007	ERIANN	ERAN4	0.1	30	annuum	4	
_									Paspalum		
07GC001	GC	G	32	2007	PASSETS	PASES	5	25	setaceum var.	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									stramineum		
									Quercus		
07GC001	GC	G	32	2007	QUEHAV	QUHA3	40	42	havardii	2	
									Schizachyrium		
07GC001	GC	G	32	2007	SCHSCO	SCSC	10	30	scoparium	3	
									Ambrosia		
07GC001	GC	G	42	2007	AMBPSI	AMPS	0.5	23	psilostachya	4	
								_	Aristida		
07GC001	GC	G	42	2007	ARIPUR	ARPU9	2	0	purpurea	3	
	0.0				50111115	501110			Bouteloua		
07GC001	GC	G	42	2007	BOUHIR	BOHI2	6	15	hirsuta	3	
0700004	00		40	0007	CALCED	0.4.0.		00	Calylophus		0700004 540
07GC001	GC	G	42	2007	CALSER	CASE12	1	20	serrulatus	4	07GC001- F19
07GC001	GC	G	42	2007	CHAGLY	CHGL13		2	Chamaesyce	4	07GC001- F14
0760001	GC	G	42	2007	CHAGLY	CHGLI3	1	2	glyptosperma Cryptantha	4	07GC001-F14
07GC001	GC	G	42	2007	CRYCIN	CRCI3	1	27	cinerea	4	
076001	GC	G	42	2007	CKTCIN	CKCIS	I	21	Dalea nana var.	4	
07GC001	GC	G	42	2007	DALNANN	DANAN	2	16	nana	4	07GC001- F35
070001	00	0	72	2001	DALIVAIVI	DANAN		10	Digitaria		0700001-133
07GC001	GC	G	42	2007	DIGPUB	DIPU9	1	25	pubiflora	3	
0,0001				2001	D101 0D	Bii 00	•		Eragrostis	Ū	
07GC001	GC	G	42	2007	ERASEC	ERSE	2	27	secundiflora	3	07GC001- G10
							_		Eriogonum		0.0000.000
07GC001	GC	G	42	2007	ERIANN	ERAN4	0.1	0	annuum	4	
07GC001	GC	G	42	2007	MIRLIN	MILI3	0.1	18	Mirabilis linearis	4	07GC001- F36
									Paspalum		
									setaceum var.		
07GC001	GC	G	42	2007	PASSETS	PASES	3	13	stramineum	3	
									Quercus		
07GC001	GC	G	42	2007	QUEHAV	QUHA3	50	45	havardii	2	
									Schizachyrium		
07GC001	GC	G	42	2007	SCHSCO	SCSC	12	43	scoparium	3	
									Ambrosia		
07GC001	GC	Н	2	2007	AMBPSI	AMPS	2	30	psilostachya	4	
			_				_		Aristida		
07GC001	GC	Н	2	2007	ARIPUR	ARPU9	3	15	purpurea	3	
07GC001	GC	Н	2	2007	CHAGLY	CHGL13	0.1	3	Chamaesyce	4	07GC001- F14

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									glyptosperma		
07GC001	GC	Н	2	2007	CHECYC	CHCY	2	55	Chenopodium cycloides	4	07GC001- F28
07GC001	GC	Н	2	2007	COMERE	COER	0.1	8	Commelina erecta	4	
07GC001	GC	Н	2	2007	CRYCIN	CRCI3	1	30	Cryptantha cinerea	4	
07GC001	GC	Н	2	2007	DIGPUB	DIPU9	0.5	20	Digitaria pubiflora	3	
07GC001	GC	Н	2	2007	GAUVIL	GAVI2	1	60	Gaura villosa	4	
07GC001	GC	Н	2	2007	HELPETP	HEPEP	3	60	Helianthus petiolaris ssp. petiolaris	4	HELPET
07GC001	GC	Н	2	2007	HETVIL	HEVI4	3	27	Heterotheca villosa	4	07GC001- F37
07GC001	GC	Н	2	2007	LITMUL	LIMU3	0.1	5	Lithospermum multiflorum	4	
07GC001	GC	Н	2	2007	MIMQUAO	MIQUO	1	8	Mimosa quadrivalvis var. occidentalis	4	MIMRUP
07GC001	GC	Н	2	2007	QUEHAV	QUHA3	35	50	Quercus havardii	2	
07GC001	GC	Н	2	2007	SCHSCO	SCSC	20	40	Schizachyrium scoparium	3	
07GC001	GC	Н	2	2007	SPOCRY	SPCR	2	35	Sporobolus cryptandrus	3	
07GC001	GC	Н	2	2007	XANSPI2	MAPI	0.5	22	Xanthisma spinulosum	4	
07GC001	GC	Н	12	2007	AMBPSI	AMPS	3	40	Ambrosia psilostachya	4	
07GC001	GC	Н	12	2007	ANDHAL	ANHA	15	48	Andropogon hallii	3	
07GC001	GC	Н	12	2007	BOUHIR	BOHI2	1	12	Bouteloua hirsuta	3	
07GC001	GC	Н	12	2007	CALSER	CASE12	4	22	Calylophus serrulatus	4	07GC001- F19
07GC001	GC	Н	12	2007	CHAGLY	CHGL13	1	2	Chamaesyce glyptosperma	4	07GC001- F14

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Cycloloma		
07GC001	GC	Н	12	2007	CYCATR	CYAT	2	12	atriplicifolium	4	
									Eragrostis		
07GC001	GC	Н	12	2007	ERASEC	ERSE	1	20	secundiflora	3	07GC001- G10
									Helianthus		
									petiolaris ssp.		
07GC001	GC	Н	12	2007	HELPETP	HEPEP	2	60	petiolaris	4	HELPET
									Heterotheca		
07GC001	GC	Н	12	2007	HETVIL	HEVI4	4	28	villosa	4	07GC001- F37
0700004	00		40	0007	DALODU	DAOD	0.4	-00	Palafoxia		
07GC001	GC	Н	12	2007	PALSPH	PASP	0.1	28	sphacelata	4	
									Paspalum		
07GC001	GC	Н	12	2007	PASSETS	PASES	2	20	setaceum var. stramineum	3	
076001	GC	П	12	2007	PASSETS	PASES		20	Quercus	3	
07GC001	GC	Н	12	2007	QUEHAV	QUHA3	10	30	havardii	2	
076001	GC	11	12	2001	QULITAV	QUITAS	10	30	Schizachyrium		
07GC001	GC	Н	12	2007	SCHSCO	SCSC	25	30	scoparium	3	
070001	00		12	2001	0011000	0000	20	- 50	Sporobolus	3	
07GC001	GC	Н	12	2007	SPOCRY	SPCR	2	30	cryptandrus	3	
0.000.				2001	<u> </u>	0. 0.0	_		Xanthisma		
07GC001	GC	Н	12	2007	XANSPI2	MAPI	0.1	24	spinulosum	4	
									Andropogon		
07GC001	GC	Н	22	2007	ANDHAL	ANHA	60	3	hallii	3	
									Bouteloua		
07GC001	GC	Н	22	2007	BOUHIR	BOHI2	20	8	hirsuta	3	
									Chamaesyce		
07GC001	GC	Н	22	2007	CHAGLY	CHGL13	2	0.5	glyptosperma	4	07GC001- F14
									Commelina		
07GC001	GC	Н	22	2007	COMERE	COER	28	0.1	erecta	4	
									Cryptantha		
07GC001	GC	Н	22	2007	CRYCIN	CRCI3	15	1.5	cinerea	4	
									Cyperus		
07GC001	GC	Н	22	2007	CYPRET	CYRE14	7	0.1	retroflexus	3	07GC001- G14
.=0.005:					=,,00==	E) (0E			Evolvulus		.=
07GC001	GC	Н	22	2007	EVOSER	EVSE	14	1	sericeus	4	07GC001- F34
0700001				0007		1157/14			Heterotheca		0700004 507
07GC001	GC	Н	22	2007	HETVIL	HEVI4	20	3	villosa	4	07GC001- F37

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Linum rigidum		
07GC001	GC	Н	22	2007	LINRIGR	LIRIR	30	0.5	var. rigidum	4	07GC001- F16
									Palafoxia		
07GC001	GC	Н	22	2007	PALSPH	PASP	15	0.1	sphacelata	4	
									Paronychia		
07GC001	GC	Н	22	2007	PARJAM	PAJA	10	1	jamesii	4	
									Paspalum		
									setaceum var.		
07GC001	GC	Н	22	2007	PASSETS	PASES	22	3	stramineum	3	
07GC001	GC	Н	22	2007	POMJAM	POJA5	15	0.5	Pomaria jamesii	4	F43
									Quercus		
07GC001	GC	Н	22	2007	QUEHAV	QUHA3	45	20	havardii	2	
									Schizachyrium		
07GC001	GC	Н	22	2007	SCHSCO	SCSC	36	30	scoparium	3	
									Ambrosia		
07GC001	GC	Н	32	2007	AMBPSI	AMPS	1	30	psilostachya	4	
									Andropogon		
07GC001	GC	Н	32	2007	ANDHAL	ANHA	2	60	hallii	3	
									Bouteloua		
07GC001	GC	Н	32	2007	BOUCUR	BOCU	1	30	curtipendula	3	
									Bouteloua		
07GC001	GC	Н	32	2007	BOUHIR	BOHI2	3	8	hirsuta	3	
									Chamaesyce		
07GC001	GC	Н	32	2007	CHAFEN	CHFE3	2	3	fendleri	4	
									Chamaesyce		
07GC001	GC	Н	32	2007	CHAGLY	CHGL13	1	2	glyptosperma	4	07GC001- F14
									Commelina		
07GC001	GC	Н	32	2007	COMERE	COER	0.1	13	erecta	4	
									Eragrostis		
07GC001	GC	Н	32	2007	ERASEC	ERSE	2	20	secundiflora	3	07GC001- G10
									Froelichia		
07GC001	GC	Н	32	2007	FROGRA	FRGR3	0.1	26	gracilis	4	
									Heterotheca		
07GC001	GC	Н	32	2007	HETVIL	HEVI4	0.5	30	villosa	4	07GC001- F37
									Lechea		
07GC001	GC	Н	32	2007	LECMUC	LEMU3	0.1	10	mucronata	4	07GC001- F27
									Palafoxia		
07GC001	GC	Н	32	2007	PALSPH	PASP	0.5	16	sphacelata	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GC001	GC	Н	32	2007	PASSETS	PASES	3	15	stramineum	3	
									Quercus		
07GC001	GC	Н	32	2007	QUEHAV	QUHA3	27	45	havardii	2	
									Schizachyrium		
07GC001	GC	Н	32	2007	SCHSCO	SCSC	30	40	scoparium	3	
									Ambrosia		
07GC001	GC	Н	42	2007	AMBPSI	AMPS	25	0.5	psilostachya	4	
									Bouteloua		
07GC001	GC	Н	42	2007	BOUCUR	BOCU	15	6	curtipendula	3	
									Bouteloua		
07GC001	GC	Н	42	2007	BOUHIR	BOHI2	20	6	hirsuta	3	
.=00004					041.055	0.0540			Calylophus		.=0.0004 =40
07GC001	GC	Н	42	2007	CALSER	CASE12	30	3	serrulatus	4	07GC001- F19
0700004	00		40	0007	01140114	0110140		0.4	Chamaesyce		0700004 544
07GC001	GC	Н	42	2007	CHAGLY	CHGL13	3	0.1	glyptosperma	4	07GC001- F14
0700004	00		40	0007	000/0101	0000			Cryptantha		
07GC001	GC	Н	42	2007	CRYCIN	CRCI3	20	2.5	cinerea	4	
0700004	00		40	0007	EDIANNI	EDANIA	4.5	0.5	Eriogonum		
07GC001	GC	Н	42	2007	ERIANN	ERAN4	45	0.5	annuum	4	
0700004	00		40	0007	OBLIBLIA	ODDII	40		Opuntia	0.5	
07GC001	GC	Н	42	2007	OPUPHA	OPPH	10	1	phaeacantha	2.5	
									Paspalum		
0700004	GC	Н	40	2007	PASSETS	PASES	18		setaceum var.		
07GC001	GC	П	42	2007	PASSETS	PASES	18	4	stramineum	3	
07GC001	GC	Н	42	2007	QUEHAV	QUHA3	35	30	Quercus havardii	2	
076001	GC	П	42	2007	QUEHAV	QUIAS	33	30	Schizachyrium		
07GC001	GC	Н	42	2007	SCHSCO	SCSC	35	20	scoparium	3	
076001	GC	П	42	2007	зспасо	3030	33	20	Xanthisma	3	
07GC001	GC	Н	42	2007	XANSPI2	MAPI	10	0.1	spinulosum	4	
07 GC001	GC	П	42	2007	AMINOPIZ	IVIAFI	10	U. I	Andropogon	4	
07GR001	GR	Α	2	2007	ANDHAL	ANHA	6	50	hallii	3	
or GROOT	GIX	Λ		2007	ANDITAL	AINI IA	0	30	Aristida	3	
07GR001	GR	Α	2	2007	ARIPUR	ARPU9	5	16	purpurea	3	
or GROOT	GIX	Λ		2007	AINIFUIX	AINFUS	5	10	Bouteloua	3	
07GR001	GR	Α	2	2007	BOUHIR	BOHI2	5	10	hirsuta	3	
UIGRUUI	GK	Α		2007	роппк	ВОПІИ		10	TIIISUla	<u> </u>	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Calylophus		
07GR001	GR	Α	2	2007	CALSER	CASE12	1	25	serrulatus	4	07GC001- F19
									Commelina		
07GR001	GR	Α	2	2007	COMERE	COER	0.1	14	erecta	4	
07GR001	GR	Α	2	2007	DALPUR	DAPU5	0.1	3	Dalea purpurea	4	07GC001- F38
									Eragrostis		
07GR001	GR	Α	2	2007	ERASEC	ERSE	0.1	25	secundiflora	3	07GC001- G10
									Froelichia		
07GR001	GR	Α	2	2007	FROGRA	FRGR3	0.1	4	gracilis	4	
									Lechea		
07GR001	GR	Α	2	2007	LECMUC	LEMU3	0.1	6	mucronata	4	07GC001- F27
									Linum rigidum		
07GR001	GR	Α	2	2007	LINRIGR	LIRIR	2	45	var. rigidum	4	07GC001- F16
									Paronychia		
07GR001	GR	Α	2	2007	PARJAM	PAJA	2	11	jamesii	4	
									Paspalum		
									setaceum var.		
07GR001	GR	Α	2	2007	PASSETS	PASES	1	8	stramineum	3	
<b>_</b>		_	_						Quercus	_	
07GR001	GR	Α	2	2007	QUEHAV	QUHA3	22	35	havardii	2	
		_	_						Schizachyrium		
07GR001	GR	Α	2	2007	SCHSCO	SCSC	18	35	scoparium	3	
.=					000001	0000			Sporobolus		
07GR001	GR	Α	2	2007	SPOCRY	SPCR	1	50	cryptandrus	3	
070004	0.0			0007	THEMES	TUNAF		40	Thelesperma		
07GR001	GR	Α	2	2007	THEMEG	THME	1	48	megapotamicum	4	
0700004	0.0			0007	VANODIO	MADI	0.5	0.5	Xanthisma		
07GR001	GR	Α	2	2007	XANSPI2	MAPI	0.5	25	spinulosum	4	
0700004	OD	_	40	0007	AMDDOL	AMDO		40	Ambrosia		
07GR001	GR	Α	12	2007	AMBPSI	AMPS	1	40	psilostachya	4	
070004	GR	Α	12	2007	ANDHAL	ANHA	1.5	40	Andropogon hallii	3	
07GR001	GK	A	12	2007	ANDHAL	ANTA	1.5	40	Bouteloua	3	
07GR001	GR	Α	12	2007	BOUHIR	BOHI2	5	15	hirsuta	3	
UIGRUUI	GK	Α	12	2007	BOUNK	ВОПІД	5	13	Chenopodium	3	
07GR001	GR	Α	12	2007	CHECYC	CHCY	0.1	40	cycloides	4	07GC001- F28
OI GINUUT	GIX		14	2001	OFFICE	OI IO I	0.1	40	Cryptantha	4	07 GC001- F20
07GR001	GR	Α	12	2007	CRYCIN	CRCI3	0.5	14		4	
07 GINUUT	GIV	_ ^	12	2001	CIVICIIN	UNUIS	0.5	14	Cilicica	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Gutierrezia		
07GR001	GR	Α	12	2007	GUTSAR	GUSA2	0.1	20	sarothrae	2.5	
									Krameria		
07GR001	GR	Α	12	2007	KRALAN	KRLA	4	20	lanceolata	4	
									Paspalum		
									setaceum var.		
07GR001	GR	Α	12	2007	PASSETS	PASES	5	12	stramineum	3	
					_				Quercus		
07GR001	GR	Α	12	2007	QUEHAV	QUHA3	40	35	havardii	2	
		_							Schizachyrium	_	
07GR001	GR	Α	12	2007	SCHSCO	SCSC	25	35	scoparium	3	
.=05.04					000001	0000			Sporobolus		
07GR001	GR	Α	12	2007	SPOCRY	SPCR	10	20	cryptandrus	3	
0700004	0.0		40	0007	THEME	T1 18 4F		0.5	Thelesperma		
07GR001	GR	Α	12	2007	THEMEG	THME	1	35	megapotamicum	4	
0700004	CD	_	22	2007	AMDDOL	AMDO	2	25	Ambrosia		
07GR001	GR	Α	22	2007	AMBPSI	AMPS	3	25	psilostachya Bouteloua	4	
07GR001	GR	_	22	2007	BOUCUR	BOCU	4	20	curtipendula	3	
07GR001	GR	Α	22	2007	BOUCUR	ВОСО	1	20	Bouteloua	3	
07GR001	GR	Α	22	2007	BOUHIR	BOHI2	2	22	hirsuta	3	
07 GIXOOT	GIX	_ ^		2001	BOOTIIK	DOTTIZ			Calylophus	3	
07GR001	GR	Α	22	2007	CALSER	CASE12	1	22	serrulatus	4	07GC001- F19
0701001	OIX	Α		2001	OALOLIK	OAOLIZ	'		Chamaesyce		0700001 1 13
07GR001	GR	Α	22	2007	CHAFEN	CHFE3	2	5	fendleri	4	
07011001	OIX			2001	OTIVAL ETA	0111 20			Commelina		
07GR001	GR	Α	22	2007	COMERE	COER	0.1	7	erecta	4	
					0 0 111 111				Cyperus		
07GR001	GR	Α	22	2007	CYPRET	CYRE14	1	14	retroflexus	3	07GC001- G14
									Digitaria		
07GR001	GR	Α	22	2007	DIGPUB	DIPU9	6	24	pubiflora	3	
									Eragrostis		
07GR001	GR	Α	22	2007	ERASEC	ERSE	0.5	20	secundiflora	3	07GC001- G10
									Linum rigidum		
07GR001	GR	Α	22	2007	LINRIGR	LIRIR	1	48	var. rigidum	4	07GC001- F16
									Paspalum		
_									setaceum var.		
07GR001	GR	Α	22	2007	PASSETS	PASES	0.5	8	stramineum	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			Quercus		
07GR001	GR	Α	22	2007	QUEHAV	QUHA3	40	30	havardii	2	
									Schizachyrium		
07GR001	GR	Α	22	2007	SCHSCO	SCSC	25	35	scoparium	3	
									Xanthisma		
07GR001	GR	Α	22	2007	XANSPI2	MAPI	0.1	20	spinulosum	4	
									Andropogon		
07GR001	GR	Α	32	2007	ANDHAL	ANHA	20	55	hallii	3	
_					_				Bouteloua		
07GR001	GR	Α	32	2007	BOUHIR	BOHI2	2	25	hirsuta	3	
<b>_</b>		_							Calylophus		<b></b>
07GR001	GR	Α	32	2007	CALSER	CASE12	5	26	serrulatus	4	07GC001- F19
		_					_		Cyperus		
07GR001	GR	Α	32	2007	CYPRET	CYRE14	1	12	retroflexus	3	07GC001- G14
		_							Digitaria		
07GR001	GR	Α	32	2007	DIGPUB	DIPU9	4	28	pubiflora	3	
0705004	0.5		00	0007	LINIDIOD	LIBID		0.5	Linum rigidum		0700004 540
07GR001	GR	Α	32	2007	LINRIGR	LIRIR	2	65	var. rigidum	4	07GC001- F16
0705004	0.5		00	0007	DADIANA	D 4 1 4		_	Paronychia		
07GR001	GR	Α	32	2007	PARJAM	PAJA	0.5	7	jamesii	4	
									Paspalum		
07GR001	GR	Α	32	2007	PASSETS	PASES	4	14	setaceum var. stramineum	3	
07GR001	GK	A	32	2007	PASSETS	PASES	4	14		3	
07GR001	GR	Α	32	2007	QUEHAV	QUHA3	20	30	Quercus havardii	2	
0768001	GK	A	32	2007	QUEHAV	QUIAS	20	30	Schizachyrium		
07GR001	GR	Α	32	2007	SCHSCO	SCSC	20	36	scoparium	3	
07 GIXOUT	GIX		32	2001	3011300	3030	20	30	Xanthisma	3	
									texanum ssp.		
07GR001	GR	Α	32	2007	XANTEXD	XATED2	0.5	15	drummondii	4	
37 37 30 1		, ,	02	2001	701111270	7011202	0.0	10	Ambrosia	7	
07GR001	GR	Α	42	2007	AMBPSI	AMPS	0.5	30	psilostachya	4	
3. 3.1001			12			, <del>C</del>	0.0	- 50	Andropogon	<u> </u>	
07GR001	GR	Α	42	2007	ANDHAL	ANHA	0.5	70	hallii	3	
		-					0.0		Aristida		
07GR001	GR	Α	42	2007	ARIPUR	ARPU9	1	15	purpurea	3	
					_				Bouteloua		
07GR001	GR	Α	42	2007	BOUCUR	BOCU	1	30	curtipendula	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Bouteloua		
07GR001	GR	Α	42	2007	BOUHIR	BOHI2	3	13	hirsuta	3	
									Calylophus		
07GR001	GR	Α	42	2007	CALSER	CASE12	1	30	serrulatus	4	07GR001- F19
0705004	0.5		40	0007	01140114	0110140			Chamaesyce	_	0700004 544
07GR001	GR	Α	42	2007	CHAGLY	CHGL13	0.1	2	glyptosperma	4	07GC001- F14
07GR001	GR	Α	42	2007	COMERE	COER	0.1	10	Commelina erecta	4	
07GR001	GR	А	42	2007	COMERE	COER	0.1	10	Digitaria	4	
07GR001	GR	Α	42	2007	DIGPUB	DIPU9	3	25	pubiflora	3	
07 011001	OIX	Λ	72	2001	DIGI OD	Dii 03	3	20	Eragrostis	3	
07GR001	GR	Α	42	2007	ERASEC	ERSE	2	25	secundiflora	3	07GC001- G10
0.0.100.							_		Eriogonum		0.0000.0.0
07GR001	GR	Α	42	2007	ERIANN	ERAN4	0.5	100	annuum	4	
									Evolvulus		
07GR001	GR	Α	42	2007	EVOSER	EVSE	0.1	20	sericeus	4	07GR001- F34
									Lechea		
07GR001	GR	Α	42	2007	LECMUC	LEMU3	1	50	mucronata	4	07GC001- F27
									Linum rigidum		
07GR001	GR	Α	42	2007	LINRIGR	LIRIR	2	55	var. rigidum	4	07GC001- F16
07GR001	GR	Α	42	2007	MIRLIN	MILI3	0.5	35	Mirabilis linearis	4	07GC001- F36
									Paspalum		
0700004	0.0		40	0007	DAGOETO	DAGEG		0.5	setaceum var.		
07GR001	GR	Α	42	2007	PASSETS	PASES	3	25	stramineum	3	
07GR001	GR	Α	42	2007	PSOTEN	PSTE5	5	55	Psoralidium tenuiflorum	4	
07GR001	GR	A	42	2007	PSOTEN	PSIES	5	၁၁	Quercus	4	
07GR001	GR	Α	42	2007	QUEHAV	QUHA3	35	40	havardii	2	
07 011001	OIX	Λ	72	2001	QUEITAV	QUIIAS	33	70	Schizachyrium		
07GR001	GR	Α	42	2007	SCHSCO	SCSC	30	30	scoparium	3	
			· <u>-</u>				- 50		Thelesperma		
07GR001	GR	Α	42	2007	THEMEG	THME	1	72	megapotamicum	4	
									Xanthisma		
07GR001	GR	Α	42	2007	XANSPI2	MAPI	2	25	spinulosum	4	
									Ambrosia		
07GR001	GR	В	2	2007	AMBPSI	AMPS	3	30	psilostachya	4	
		_							Andropogon		
07GR001	GR	В	2	2007	ANDHAL	ANHA	8	40	hallii	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			Bouteloua		
07GR001	GR	В	2	2007	BOUHIR	BOHI2	5	15	hirsuta	3	
									Paronychia		
07GR001	GR	В	2	2007	PARJAM	PAJA	2.5	9	jamesii	4	
									Paspalum		
									setaceum var.		
07GR001	GR	В	2	2007	PASSETS	PASES	3	15	stramineum	3	
07GR001	GR	В	2	2007	POMJAM	POJA5	1.5	47	Pomaria jamesii	4	
									Quercus		
07GR001	GR	В	2	2007	QUEHAV	QUHA3	30	40	havardii	2	
									Schizachyrium		
07GR001	GR	В	2	2007	SCHSCO	SCSC	20	45	scoparium	3	
									Sporobolus		
07GR001	GR	В	2	2007	SPOCRY	SPCR	1.5	25	cryptandrus	3	
									Xanthisma		
07GR001	GR	В	2	2007	XANSPI2	MAPI	0.5	14	spinulosum	4	
07GR001	GR	В	2	2007	YUCGLA	YUGL	2	52	Yucca glauca	2	
									Ambrosia		
07GR001	GR	В	12	2007	AMBPSI	AMPS	0.1	25	psilostachya	4	
									Andropogon		
07GR001	GR	В	12	2007	ANDHAL	ANHA	12	70	hallii	3	
									Bouteloua		
07GR001	GR	В	12	2007	BOUHIR	BOHI2	2	11	hirsuta	3	
									Calylophus		
07GR001	GR	В	12	2007	CALSER	CASE12	0.5	22	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	В	12	2007	CHAGLY	CHGL13	0.1	3	glyptosperma	4	07GC001- F14
									Commelina		
07GR001	GR	В	12	2007	COMERE	COER	0.1	20	erecta	4	
									Evolvulus		
07GR001	GR	В	12	2007	EVOSER	EVSE	0.1	15	sericeus	4	07GC001- F34
07GR001	GR	В	12	2007	POMJAM	POJA5	1	25	Pomaria jamesii	4	
									Quercus		
07GR001	GR	В	12	2007	QUEHAV	QUHA3	20	55	havardii	2	
									Schizachyrium		
07GR001	GR	В	12	2007	SCHSCO	SCSC	22	35	scoparium	3	
									Sporobolus		
07GR001	GR	В	12	2007	SPOCRY	SPCR	0.5	20	cryptandrus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
07GR001	GR	В	22	2007	ANDHAL	ANHA	15	45	Andropogon hallii	3	
07GR001	GR	В	22	2007	BOUHIR	BOHI2	8	20	Bouteloua hirsuta	3	
07GR001	GR	В	22	2007	CRYCIN	CRCI3	0.5	14	Cryptantha cinerea	4	
07GR001	GR	В	22	2007	CYPRET	CYRE14	0.1	8	Cyperus retroflexus	3	07GC001- G14
07GR001	GR	В	22	2007	DIGPUB	DIPU9	2	20	Digitaria pubiflora	3	
07GR001	GR	В	22	2007	GUTSAR	GUSA2	3	34	Gutierrezia sarothrae	2.5	
07GR001	GR	В	22	2007	PASSETS	PASES	0.5	16	Paspalum setaceum var. stramineum	3	
07GR001	GR	В	22	2007	QUEHAV	QUHA3	40	50	Quercus havardii	2	
07GR001	GR	В	22	2007	SCHSCO	SCSC	10	30	Schizachyrium scoparium	3	
07GR001	GR	В	22	2007	SPOCRY	SPCR	0.5	16	Sporobolus cryptandrus	3	
07GR001	GR	В	22	2007	THEMEG	THME	0.5	65	Thelesperma megapotamicum	4	
07GR001	GR	В	32	2007	AMBPSI	AMPS	1	25	Ambrosia psilostachya	4	
07GR001	GR	В	32	2007	ANDHAL	ANHA	5	60	Andropogon hallii	3	
07GR001	GR	В	32	2007	BOUCUR	BOCU	0.5	20	Bouteloua curtipendula	3	
07GR001	GR	В	32	2007	BOUHIR	BOHI2	1	10	Bouteloua hirsuta	3	
07GR001	GR	В	32	2007	CHAGLY	CHGL13	1	3	Chamaesyce glyptosperma	4	07GC001- F14
07GR001	GR	В	32	2007	COMERE	COER	0.5	18	Commelina erecta	4	
07GR001	GR	В	32	2007	DALPUR	DAPU5	1	30	Dalea purpurea Digitaria	4	07GC001- F38
07GR001	GR	В	32	2007	DIGPUB	DIPU9	15	20	pubiflora	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Eragrostis		
07GR001	GR	В	32	2007	ERASEC	ERSE	0.5	20	secundiflora	3	07GC001- G10
									Paspalum		
									setaceum var.		
07GR001	GR	В	32	2007	PASSETS	PASES	2	28	stramineum	3	
									Quercus		
07GR001	GR	В	32	2007	QUEHAV	QUHA3	20	50	havardii	2	
									Schizachyrium		
07GR001	GR	В	32	2007	SCHSCO	SCSC	15	40	scoparium	3	
									Sporobolus		
07GR001	GR	В	32	2007	SPOCRY	SPCR	2	50	cryptandrus	3	
									Xanthisma		
07GR001	GR	В	32	2007	XANSPI2	MAPI	0.1	30	spinulosum	4	
07GR001	GR	В	32	2007	YUCGLA	YUGL	0.1	60	Yucca glauca	2	
									Andropogon		
07GR001	GR	В	42	2007	ANDHAL	ANHA	0.5	40	hallii	3	
									Bouteloua		
07GR001	GR	В	42	2007	BOUCUR	BOCU	4	25	curtipendula	3	
		_							Bouteloua		
07GR001	GR	В	42	2007	BOUHIR	BOHI2	3	14	hirsuta	3	
.=		_			041.055	0.05.0			Calylophus	_	
07GR001	GR	В	42	2007	CALSER	CASE12	1.5	22	serrulatus	4	07GC001- F19
0700004	0.0	_	40	0007	01140134	0110140	4 -		Chamaesyce		0700004 544
07GR001	GR	В	42	2007	CHAGLY	CHGL13	1.5	3	glyptosperma	4	07GC001- F14
07GR001	GR	В	42	2007	CRYCIN	CRCI3	1	25	Cryptantha cinerea	4	
U/GRUUT	GR	Ь	42	2007	CRICIN	CRCIS	I	25	Cycloloma	4	
07GR001	GR	В	42	2007	CYCATR	CYAT	0.1	7	atriplicifolium	4	
UIGRUUT	GK	Ь	42	2007	CICAIR	CTAI	0.1	1	Paspalum	4	
									setaceum var.		
07GR001	GR	В	42	2007	PASSETS	PASES	2.5	15	stramineum	3	
0.011001	OI C		72	2007	1,100210	1,1020	2.0	10	Quercus	3	
07GR001	GR	В	42	2007	QUEHAV	QUHA3	20	38	havardii	2	
3. 3.1031			12		QUE!!/(V	Q311/10		- 55	Schizachyrium		
07GR001	GR	В	42	2007	SCHSCO	SCSC	15	30	scoparium	3	
									Sporobolus		
07GR001	GR	В	42	2007	SPOCRY	SPCR	2	30	cryptandrus	3	
07GR001	GR	В	42	2007	THEMEG	THME	0.1	35	Thelesperma	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			megapotamicum		
									Xanthisma		
07GR001	GR	В	42	2007	XANSPI2	MAPI	0.1	36	spinulosum	4	
									Andropogon		
07GR001	GR	С	2	2007	ANDHAL	ANHA	5	60	hallii	3	
									Bouteloua		
07GR001	GR	С	2	2007	BOUHIR	BOHI2	5	10	hirsuta	3	
									Calylophus		
07GR001	GR	С	2	2007	CALSER	CASE12	1	28	serrulatus	4	07GC001- F19
<b></b>									Commelina		
07GR001	GR	С	2	2007	COMERE	COER	0.1	12	erecta	4	
	0.5				5105115	DIDITO			Digitaria		
07GR001	GR	С	2	2007	DIGPUB	DIPU9	2	20	pubiflora	3	
070004	0.0			0007	ED 4 0 E 0	EDOE		40	Eragrostis		0700004 040
07GR001	GR	С	2	2007	ERASEC	ERSE	2	40	secundiflora	3	07GC001- G10
0700004	OD			0007	EDIANN	ED ANIA	0.5	4.5	Eriogonum		
07GR001	GR	С	2	2007	ERIANN	ERAN4	0.5	45	annuum	4	
07GR001	GR	С	2	2007	PALSPH	PASP	0.5	33	Palafoxia sphacelata	4	
07GR001	GR	C		2007	PALSPH	PASP	0.5	აა	Paspalum	4	
									setaceum var.		
07GR001	GR	С	2	2007	PASSETS	PASES	1	15	stramineum	3	
07 01001	OIX	0		2001	TAGGETG	TAGEG		10	Quercus	3	
07GR001	GR	С	2	2007	QUEHAV	QUHA3	15	45	havardii	2	
07 01 (00 1	O.C			2001	QOLI II (V	QOI II TO	10	10	Schizachyrium		
07GR001	GR	С	2	2007	SCHSCO	SCSC	20	45	scoparium	3	
									Xanthisma		
07GR001	GR	С	2	2007	XANSPI2	MAPI	0.1	16	spinulosum	4	
									Andropogon		
07GR001	GR	С	12	2007	ANDHAL	ANHA	15	60	hallii	3	
									Aristida		
07GR001	GR	С	12	2007	ARIPUR	ARPU9	8	25	purpurea	3	
									Bouteloua		
07GR001	GR	С	12	2007	BOUHIR	BOHI2	10	15	hirsuta	3	
									Chamaesyce		
07GR001	GR	С	12	2007	CHAFEN	CHFE3	0.1	2	fendleri	4	
									Cryptantha		
07GR001	GR	С	12	2007	CRYCIN	CRCI3	0.1	5	cinerea	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Digitaria		
07GR001	GR	С	12	2007	DIGPUB	DIPU9	0.1	15	pubiflora	3	
									Dimorphocarpa		
07GR001	GR	С	12	2007	DIMWIS	DIWI2	0.1	30	wislizeni	4	
									Eriogonum		
07GR001	GR	С	12	2007	ERIANN	ERAN4	0.1	23	annuum	4	
									Munroa		
07GR001	GR	С	12	2007	MUNSQU	MUSQ3	0.1	3	squarrosa	3	
									Palafoxia		
07GR001	GR	С	12	2007	PALSPH	PASP	0.5	18	sphacelata	4	
									Paspalum		
									setaceum var.		
07GR001	GR	С	12	2007	PASSETS	PASES	1	20	stramineum	3	
									Psilostrophe		
07GR001	GR	С	12	2007	PSITAG	PSTA	0.5	12	tagetina	4	
									Quercus		
07GR001	GR	С	12	2007	QUEHAV	QUHA3	20	35	havardii	2	
									Schizachyrium		
07GR001	GR	С	12	2007	SCHSCO	SCSC	15	35	scoparium	3	
									Sporobolus		
07GR001	GR	С	12	2007	SPOCRY	SPCR	5	25	cryptandrus	3	
									Thelesperma		
07GR001	GR	С	12	2007	THEMEG	THME	2	80	megapotamicum	4	
									Andropogon		
07GR001	GR	С	22	2007	ANDHAL	ANHA	5	80	hallii	3	
									Bouteloua		
07GR001	GR	С	22	2007	BOUHIR	BOHI2	2	15	hirsuta	3	
									Chamaesyce		
07GR001	GR	С	22	2007	CHAGLY	CHGL13	0.1	2	glyptosperma	4	07GC001- F14
									Commelina		
07GR001	GR	С	22	2007	COMERE	COER	1	28	erecta	4	
									Psoralidium		
07GR001	GR	С	22	2007	PSOTEN	PSTE5	6	50	tenuiflorum	4	
									Quercus		
07GR001	GR	С	22	2007	QUEHAV	QUHA3	3	45	havardii	2	
									Schizachyrium		
07GR001	GR	С	22	2007	SCHSCO	SCSC	35	35	scoparium	3	
07GR001	GR	С	22	2007	THEMEG	THME	2	70	Thelesperma	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									megapotamicum		
07GR001	GR	С	32	2007	ANDHAL	ANHA	5	60	Andropogon hallii	3	
07GR001	GR	С	32	2007	BOUCUR	BOCU	5	24	Bouteloua curtipendula	3	
07GR001	GR	С	32	2007	BOUHIR	BOHI2	10	18	Bouteloua hirsuta	3	
07GR001	GR	С	32	2007	CALSER	CASE12	5	32	Calylophus serrulatus	4	07GC001- F19
07GR001	GR	С	32	2007	CHAGLY	CHGL13	0.5	2	Chamaesyce glyptosperma	4	07GC001- F14
07GR001	GR	С	32	2007	COMERE	COER	3	35	Commelina erecta	4	
07GR001	GR	С	32	2007	CRYCIN	CRCI3	1	22	Cryptantha cinerea	4	
07GR001	GR	С	32	2007	CYPRET	CYRE14	0.5	10	Cyperus retroflexus	3	07GC001- G14
07GR001	GR	С	32	2007	ERIANN	ERAN4	0.5	62	Eriogonum annuum	4	
07GR001	GR	С	32	2007	EVOSER	EVSE	1	18	Evolvulus sericeus	4	07GC001- F34
07GR001	GR	С	32	2007	LINRIGR	LIRIR	0.5	46	Linum rigidum var. rigidum	4	07GC001- F16
07GR001	GR	С	32	2007	PALSPH	PASP	0.1	24	Palafoxia sphacelata	4	
07GR001	GR	С	32	2007	PARJAM	PAJA	0.5	8	Paronychia jamesii	4	
07GR001	GR	С	32	2007	PASSETS	PASES	2	22	Paspalum setaceum var. stramineum	3	
07GR001	GR	С	32	2007	QUEHAV	QUHA3	40	38	Quercus havardii	2	
07GR001	GR	С	32	2007	SCHSCO	SCSC	15	40	Schizachyrium scoparium	3	
07GR001	GR	С	32	2007	SPOCRY	SPCR	1.5	20	Sporobolus cryptandrus	3	
07GR001	GR	С	32	2007	XANSPI2	MAPI	2.5	35	Xanthisma spinulosum	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Andropogon		
07GR001	GR	С	42	2007	ANDHAL	ANHA	1	70	hallii	3	
									Aristida		
07GR001	GR	С	42	2007	ARIPUR	ARPU9	1	20	purpurea	3	
									Bouteloua		
07GR001	GR	С	42	2007	BOUHIR	BOHI2	3	10	hirsuta	3	
									Commelina		
07GR001	GR	С	42	2007	COMERE	COER	0.5	30	erecta	4	
	_	_							Dalea nana var.		
07GR001	GR	С	42	2007	DALNANN	DANAN	1.5	12	nana	4	07GC001- F35
<b>_</b>									Eragrostis	_	
07GR001	GR	С	42	2007	ERASES	ERSE2	1	20	sessilispica	3	
07GR001	GR	С	42	2007	LIAPUN	LIPU	5	50	Liatris punctata	4	
<b>_</b>									Paronychia		
07GR001	GR	С	42	2007	PARJAM	PAJA	1	10	jamesii	4	
									Quercus	_	
07GR001	GR	С	42	2007	QUEHAV	QUHA3	15	40	havardii	2	
.=					0011000	0000			Schizachyrium		
07GR001	GR	С	42	2007	SCHSCO	SCSC	30	24	scoparium	3	
070004	CD		40	2007	CDOCDY	CDCD		20	Sporobolus		
07GR001	GR	С	42	2007	SPOCRY	SPCR	1	30	cryptandrus	3	
070001	CD	С	40	2007	THEMES	TUME	0.5	65	Thelesperma	4	
07GR001	GR	C	42	2007	THEMEG	THME	0.5	65	megapotamicum Ambrosia	4	
07GR001	GR	D	2	2007	AMBPSI	AMPS	0.1	8	psilostachya	4	
U/GRUU1	GK	U		2007	AIVIDESI	AIVIFO	0.1	0	Bouteloua	4	
07GR001	GR	D	2	2007	BOUHIR	BOHI2	2	14	hirsuta	3	
07 011001	GIX			2001	BOOTIIK	DOTTIZ		17	Chamaesyce	3	
07GR001	GR	D	2	2007	CHAFEN	CHFE3	0.5	4	fendleri	4	
07 011001	OIX			2001	OHA LIV	OTH LO	0.0		Commelina		
07GR001	GR	D	2	2007	COMERE	COER	2	24	erecta	4	
07 011001	Ort			2001	OOMERCE	OGER			Eriogonum		
07GR001	GR	D	2	2007	ERIANN	ERAN4	0.1	25	annuum	4	
		_					<b></b>		Evolvulus		
07GR001	GR	D	2	2007	EVOSER	EVSE	1	16	sericeus	4	07GC001- F34
									Heterotheca		_
07GR001	GR	D	2	2007	HETVIL	HEVI4	4	35	villosa	4	07GC001- F37
07GR001	GR	D	2	2007	LECMUC	LEMU3	0.1	13	Lechea	4	07GC001- F27

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									mucronata		
									Linum rigidum		
07GR001	GR	D	2	2007	LINRIGR	LIRIR	3	28	var. rigidum	4	07GC001- F16
									Lithospermum		
07GR001	GR	D	2	2007	LITMUL	LIMU3	1	20	multiflorum	4	
									Paspalum		
									setaceum var.		
07GR001	GR	D	2	2007	PASSETS	PASES	5	25	stramineum	3	
07GR001	GR	D	2	2007	POMJAM	POJA5	1	10	Pomaria jamesii	4	
									Quercus		
07GR001	GR	D	2	2007	QUEHAV	QUHA3	30	40	havardii	2	
									Schizachyrium		
07GR001	GR	D	2	2007	SCHSCO	SCSC	30	35	scoparium	3	
									Xanthisma		
07GR001	GR	D	2	2007	XANSPI2	MAPI	0.1	16	spinulosum	4	
									Andropogon		
07GR001	GR	D	12	2007	ANDHAL	ANHA	1	50	hallii	3	
									Aristida		
07GR001	GR	D	12	2007	ARIPUR	ARPU9	1	20	purpurea	3	
									Bouteloua		
07GR001	GR	D	12	2007	BOUHIR	BOHI2	1	10	hirsuta	3	
		_							Chamaesyce	_	
07GR001	GR	D	12	2007	CHAFEN	CHFE3	0.5	3	fendleri	4	
		_							Chamaesyce		
07GR001	GR	D	12	2007	CHAGLY	CHGL13	0.5	3	glyptosperma	4	07GC001- F14
0705004	0.5	_	4.0	0007	000/0101	0000		00	Cryptantha		
07GR001	GR	D	12	2007	CRYCIN	CRCI3	0.1	32	cinerea	4	
0700004	OD		40	0007	DALNIANINI	DANIANI	_	4.5	Dalea nana var.		0700004 F05
07GR001	GR	D	12	2007	DALNANN	DANAN	5	15	nana Heterotheca	4	07GC001- F35
07GR001	GR	D	12	2007	HETVIL	HEVI4		35	villosa	4	0700004 F07
07GR001	GR	ט	12	2007	HEIVIL	HEVI4	2	35	Lechea	4	07GC001- F37
07GR001	GR	D	12	2007	LECMUC	LEMU3	2	27			07GC001- F27
UIGRUUT	GK	U	IΖ	2007	LECIVIUC	LEIVIUS			mucronata Linum rigidum	4	01 GC001- F21
07GR001	GR	D	12	2007	LINRIGR	LIRIR	1	35	var. rigidum	4	07GC001- F16
U/GRUUT	GIX	ט	14	2001	LINKIGK	LIIXIIX	I	33	Paronychia	4	01 90001- 110
07GR001	GR	D	12	2007	PARJAM	PAJA	0.5	5	jamesii	4	
07GR001	GR	D	12	2007	PASSETS	PASES	2	15	Paspalum	3	
OI GROUT	JN	U	12	2007	PASSEIS	FASES		เบ	r aspaiulli	<u> </u>	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									setaceum var.		
									stramineum		
									Quercus		
07GR001	GR	D	12	2007	QUEHAV	QUHA3	25	40	havardii	2	
									Schizachyrium		
07GR001	GR	D	12	2007	SCHSCO	SCSC	35	30	scoparium	3	
									Sporobolus		
07GR001	GR	D	12	2007	SPOCRY	SPCR	1	20	cryptandrus	3	
									Xanthisma		
07GR001	GR	D	12	2007	XANSPI2	MAPI	0.5	22	spinulosum	4	
									Ambrosia		
07GR001	GR	D	22	2007	AMBPSI	AMPS	0.5	22	psilostachya	4	
									Andropogon		
07GR001	GR	D	22	2007	ANDHAL	ANHA	15	50	hallii	3	
									Aphanostephus		
07GR001	GR	D	22	2007	APHRAM	APRA	0.1	12	ramosissimus	4	
									Aristida		
07GR001	GR	D	22	2007	ARIPUR	ARPU9	10	24	purpurea	3	
									Bouteloua		
07GR001	GR	D	22	2007	BOUHIR	BOHI2	20	20	hirsuta	3	
									Calylophus		
07GR001	GR	D	22	2007	CALSER	CASE12	0.1	5	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	D	22	2007	CHAGLY	CHGL13	1	2	glyptosperma	4	07GC001- F14
									Commelina		
07GR001	GR	D	22	2007	COMERE	COER	0.1	5	erecta	4	
07GR001	GR	D	22	2007	DALPUR	DAPU5	0.1	20	Dalea purpurea	4	07GC001- F38
									Eragrostis		
07GR001	GR	D	22	2007	ERASEC	ERSE	0.5	14	secundiflora	3	07GC001- G10
									Eriogonum		
07GR001	GR	D	22	2007	ERIANN	ERAN4	0.5	40	annuum	4	
									Heterotheca		
07GR001	GR	D	22	2007	HETVIL	HEVI4	6	28	villosa	4	07GC001- F37
									Hymenopappus		
						_			flavescens var.		
07GR001	GR	D	22	2007	HYMFLAC	HYFLC	1	12	canotomentosus	4	07GC001- F7
									Lechea		
07GR001	GR	D	22	2007	LECMUC	LEMU3	8	40	mucronata	4	07GC001- F27

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Linum rigidum		
07GR001	GR	D	22	2007	LINRIGR	LIRIR	3	55	var. rigidum	4	07GC001- F16
									Paronychia		
07GR001	GR	D	22	2007	PARJAM	PAJA	1	7	jamesii	4	
									Quercus		
07GR001	GR	D	22	2007	QUEHAV	QUHA3	20	36	havardii	2	
									Schizachyrium		
07GR001	GR	D	22	2007	SCHSCO	SCSC	8	25	scoparium	3	
ı									Thelesperma		
07GR001	GR	D	22	2007	THEMEG	THME	0.5	85	megapotamicum	4	
					_	_			Ambrosia		
07GR001	GR	D	32	2007	AMBPSI	AMPS	0.5	29	psilostachya	4	
		_					_		Bouteloua	_	
07GR001	GR	D	32	2007	BOUHIR	BOHI2	1	12	hirsuta	3	
		_							Chamaesyce	_	
07GR001	GR	D	32	2007	CHAGLY	CHGL13	0.1	2		4	07GC001- F14
0700001	0.0	_		0007	0014505	0050			Commelina		
07GR001	GR	D	32	2007	COMERE	COER	1	20	erecta	4	
0700004	0.0		00	0007	ODVOIN	00010	0.4	00	Cryptantha	_	
07GR001	GR	D	32	2007	CRYCIN	CRCI3	0.1	20	cinerea	4	
0700004	GR	D	20	2007	DIMWIS	DIWI2	0.4	12	Dimorphocarpa wislizeni		
07GR001	GR	D	32	2007	פואואוום	DIVVIZ	0.1	12		4	
07GR001	GR	D	32	2007	ERASEC	ERSE	4	18	Eragrostis secundiflora	3	07GC001- G10
UIGRUUT	GK	ט	32	2007	ERASEC	EKSE	4	10	Eriogonum	3	076001-610
07GR001	GR	D	32	2007	ERIANN	ERAN4	0.1	25	annuum	4	
U/GRUUT	GK	U	32	2007	ENIAM	ENAIN4	0.1	23	Evolvulus	4	
07GR001	GR	D	32	2007	EVOSER	EVSE	0.1	25	sericeus	4	07GC001- F34
07 011001	OIX	D	52	2001	LVOOLIK	LVOL	0.1	23	Lechea		0700001-134
07GR001	GR	D	32	2007	LECMUC	LEMU3	7	35	mucronata	4	07GC001- F27
0.011001	OIX.		02	2007	LLOWIGO	LEIVIOO		- 55	Linum rigidum		0.0001 121
07GR001	GR	D	32	2007	LINRIGR	LIRIR	1	47	var. rigidum	4	07GC001- F16
3. 3. 3.	J. (	_	<u> </u>					.,	Lithospermum	т т	3. 33331 1 10
07GR001	GR	D	32	2007	LITMUL	LIMU3	0.5	20	multiflorum	4	
					_				Paronychia		
07GR001	GR	D	32	2007	PARJAM	PAJA	0.5	14	jamesii	4	
									Paspalum		
07GR001	GR	D	32	2007	PASSETS	PASES	1	15	setaceum var.	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									stramineum		
									Quercus		
07GR001	GR	D	32	2007	QUEHAV	QUHA3	35	35	havardii	2	
									Schizachyrium		
07GR001	GR	D	32	2007	SCHSCO	SCSC	30	30	scoparium	3	
									Xanthisma		
07GR001	GR	D	32	2007	XANSPI2	MAPI	0.1	20	spinulosum	4	
									Xanthisma		
.=					\(\delta\)	\/ATEBO			texanum ssp.		
07GR001	GR	D	32	2007	XANTEXD	XATED2	0.5	33	drummondii	4	
0700004	OD		40	0007	AMPROL	AMDO	0.5	00	Ambrosia		
07GR001	GR	D	42	2007	AMBPSI	AMPS	0.5	22	psilostachya	4	
0700004	GR	D	40	2007	A D I D I I D	A D DI IO		20	Aristida		
07GR001	GR	ט	42	2007	ARIPUR	ARPU9	6	20	purpurea Bouteloua	3	
07GR001	GR	D	42	2007	BOUHIR	BOHI2	5	15	hirsuta	3	
UIGRUUT	GK	ט	42	2007	BOUNK	ВОПІХ	3	15	Calylophus	3	
07GR001	GR	D	42	2007	CALSER	CASE12	0.1	20	serrulatus	4	07GC001- F19
07 GIXOUT	GIX	D	42	2001	CALGLIX	CAGLIZ	0.1	20	Chamaesyce	<b></b>	0790001-119
07GR001	GR	D	42	2007	CHAFEN	CHFE3	2	3	fendleri	4	
07 011001	OIX		72	2001	OII/ (I LIV	OTH LO			Chamaesyce	<u> </u>	
07GR001	GR	D	42	2007	CHAGLY	CHGL13	1.5	2	glyptosperma	4	07GC001- F14
0. O. too.	J. C.			200.	0.1	0110210	1.0		Commelina		0.0000
07GR001	GR	D	42	2007	COMERE	COER	0.1	12	erecta	4	
									Cryptantha		
07GR001	GR	D	42	2007	CRYCIN	CRCI3	0.5	12	cinerea	4	
									Cyperus		
07GR001	GR	D	42	2007	CYPRET	CYRE14	0.1	8	retroflexus	3	07GC001- G14
									Eragrostis		
07GR001	GR	D	42	2007	ERASEC	ERSE	10	18	secundiflora	3	07GC001- G10
									Lechea		
07GR001	GR	D	42	2007	LECMUC	LEMU3	0.5	5	mucronata	4	07GC001- F27
									Linum rigidum		
07GR001	GR	D	42	2007	LINRIGR	LIRIR	1.5	54	var. rigidum	4	07GC001- F16
		_							Lithospermum		
07GR001	GR	D	42	2007	LITMUL	LIMU3	0.1	8	multiflorum	4	
									Paronychia		
07GR001	GR	D	42	2007	PARJAM	PAJA	1	10	jamesii	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GR001	GR	D	42	2007	PASSETS	PASES	5	20	stramineum	3	
									Quercus		
07GR001	GR	D	42	2007	QUEHAV	QUHA3	25	40	havardii	2	
									Schizachyrium		
07GR001	GR	D	42	2007	SCHSCO	SCSC	35	30	scoparium	3	
									Thelesperma		
07GR001	GR	D	42	2007	THEMEG	THME	0.5	65	megapotamicum	4	
									Xanthisma		
07GR001	GR	D	42	2007	XANSPI2	MAPI	1.5	25	spinulosum	4	
									Andropogon		
07GR001	GR	E	2	2007	ANDHAL	ANHA	8	70	hallii	3	
									Bouteloua		
07GR001	GR	E	2	2007	BOUHIR	BOHI2	2	15	hirsuta	3	
									Calylophus		
07GR001	GR	E	2	2007	CALSER	CASE12	1	25	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	E	2	2007	CHAMIS	CHMI8	0.1	20	missurica	4	07GC001- F32
		_	_						Chenopodium	_	
07GR001	GR	Е	2	2007	CHECYC	CHCY	0.1	15	cycloides	4	07GC001- F28
<b>_</b>		_	_						Cryptantha	_	
07GR001	GR	Е	2	2007	CRYCIN	CRCI3	0.1	25	cinerea	4	
		_	_			_,,			Evolvulus	_	
07GR001	GR	Е	2	2007	EVOSER	EVSE	1	15	sericeus	4	07GC001- F34
		_							Heterotheca		
07GR001	GR	Е	2	2007	HETSUB	HESU3	1.5	33	subaxillaris	4	
0700004	0.0	_		0007	LINIDIOD	LIDID			Linum rigidum		0700004 540
07GR001	GR	Е	2	2007	LINRIGR	LIRIR	3	55	var. rigidum	4	07GC001- F16
									Paspalum		
0700004	GR	E	_	2007	PASSETS	PASES	40	4.5	setaceum var.		
07GR001	GR	E	2	2007	PASSETS	PASES	10	15	stramineum	3	
070004	GR	E		2007	QUEHAV	QUHA3	4 =	40	Quercus	_	
07GR001	GK		2	2007	QUEHAV	QUIAS	45	40	havardii	2	
07CB004	GR	E		2007	SCHSCO	scsc	2	15	Schizachyrium	2	
07GR001	GK		2	2007	зспасо	3030	2	15	scoparium Sporobolus	3	
07GR001	GR	E	2	2007	SPOCRY	SPCR	2	30	· •	3	
UIGRUUT	GK	<b>C</b>		2007	SPUCKY	SPUR		_ 3U	cryptandrus		

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Thelesperma		
07GR001	GR	E	2	2007	THEMEG	THME	0.1	27	megapotamicum	4	
									Xanthisma		
07GR001	GR	E	2	2007	XANSPI2	MAPI	0.1	20	spinulosum	4	
									Ambrosia		
07GR001	GR	E	12	2007	AMBPSI	AMPS	2.5	34	psilostachya	4	
									Andropogon		
07GR001	GR	E	12	2007	ANDHAL	ANHA	1	28	hallii	3	
									Bouteloua		
07GR001	GR	E	12	2007	BOUHIR	BOHI2	10	14	hirsuta	3	
									Calylophus		
07GR001	GR	E	12	2007	CALSER	CASE12	6	20	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	E	12	2007	CHAMIS	CHMI8	0.1	15	missurica	4	07GC001- F32
									Commelina		
07GR001	GR	E	12	2007	COMERE	COER	0.5	14	erecta	4	
									Cryptantha		
07GR001	GR	E	12	2007	CRYCIN	CRCI3	0.5	24	cinerea	4	
									Digitaria		
07GR001	GR	E	12	2007	DIGPUB	DIPU9	1	25	pubiflora	3	
									Eriogonum		
07GR001	GR	E	12	2007	ERIANN	ERAN4	0.1	30	annuum	4	
									Evolvulus		
07GR001	GR	Е	12	2007	EVOSER	EVSE	0.1	20	sericeus	4	07GC001- F34
									Heterotheca		
07GR001	GR	E	12	2007	HETVIL	HEVI4	0.1	20	villosa	4	07GC001- F37
_					_				Linum rigidum		
07GR001	GR	E	12	2007	LINRIGR	LIRIR	1	33	var. rigidum	4	07GC001- F16
									Paspalum		
									setaceum var.	_	
07GR001	GR	Е	12	2007	PASSETS	PASES	12	20	stramineum	3	
.=.		_							Quercus	_	
07GR001	GR	Е	12	2007	QUEHAV	QUHA3	30	48	havardii	2	
070500:	0.0	_		000-	0011000	2000			Schizachyrium		
07GR001	GR	Е	12	2007	SCHSCO	SCSC	15	28	scoparium	3	
070500:	0.0	_		000-	000001	0000			Sporobolus	_	
07GR001	GR	E	12	2007	SPOCRY	SPCR	3	22	cryptandrus	3	
07GR001	GR	E	12	2007	THEMEG	THME	2	48	Thelesperma	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									megapotamicum		
									Xanthisma		
07GR001	GR	E	12	2007	XANSPI2	MAPI	1	25	spinulosum	4	
									Bouteloua		
07GR001	GR	E	22	2007	BOUCUR	BOCU	2	25	curtipendula	3	
									Bouteloua		
07GR001	GR	Е	22	2007	BOUHIR	BOHI2	4	15	hirsuta	3	
									Calylophus		
07GR001	GR	Е	22	2007	CALSER	CASE12	0.5	27	serrulatus	4	07GC001- F19
									Commelina		
07GR001	GR	Е	22	2007	COMERE	COER	1	15	erecta	4	
		_				2.72			Cyperus		
07GR001	GR	Е	22	2007	CYPRET	CYRE14	0.5	30	retroflexus	3	07GC001- G14
.=		_			DIODIID	DIDITO	_		Digitaria		
07GR001	GR	Е	22	2007	DIGPUB	DIPU9	5	30	pubiflora	3	
0705004	0.5	_		0007	ED 4 0 E 0	EDOE		4-	Eragrostis		0700004 040
07GR001	GR	Е	22	2007	ERASEC	ERSE	3	15	secundiflora	3	07GC001- G10
0700004	OD	_	00	0007	LINDIOD	LIDID		40	Linum rigidum	_	0700004 540
07GR001	GR	Е	22	2007	LINRIGR	LIRIR	1	40	var. rigidum	4	07GC001- F16
07GR001	GR	E	22	2007	LITMUL	LIMU3	0.1	18	Lithospermum multiflorum	4	
UIGRUUT	GK	<b>L</b>		2007	LITIVIOL	LIIVIUS	0.1	10	Paspalum	4	
									setaceum var.		
07GR001	GR	E	22	2007	PASSETS	PASES	5	20	stramineum	3	
07 011001	OIX	<b>–</b>		2001	TAGGETG	1 AGEG	J	20	Quercus	<u> </u>	
07GR001	GR	E	22	2007	QUEHAV	QUHA3	40	35	havardii	2	
07 011001	OIX	_		2001	QOLI II (V	QOI II IO		- 00	Schizachyrium		
07GR001	GR	E	22	2007	SCHSCO	SCSC	45	35	scoparium	3	
0.0.00.	O. C	_		200.	001.000	0000		- 00	Sporobolus		
07GR001	GR	E	22	2007	SPOCRY	SPCR	1	30	cryptandrus	3	
			_ <del>_</del> _				·		Thelesperma		
07GR001	GR	E	22	2007	THEMEG	THME	0.5	65	megapotamicum	4	
									Xanthisma		
07GR001	GR	E	22	2007	XANSPI2	MAPI	0.5	20	spinulosum	4	
									Ambrosia		
07GR001	GR	E	32	2007	AMBPSI	AMPS	0.5	22	psilostachya	4	
									Andropogon		
07GR001	GR	E	32	2007	ANDHAL	ANHA	2	38	hallii	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Aristida		
07GR001	GR	E	32	2007	ARIPUR	ARPU9	1	22	purpurea	3	
									Bouteloua		
07GR001	GR	E	32	2007	BOUHIR	BOHI2	10	24	hirsuta	3	
									Calylophus		
07GR001	GR	E	32	2007	CALSER	CASE12	5	25	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	Е	32	2007	CHAGLY	CHGL13	1	2	glyptosperma	4	07GC001- F14
									Chamaesyce		
07GR001	GR	E	32	2007	CHAMIS	CHMI8	0.5	7	missurica	4	07GC001- F32
		_							Commelina		
07GR001	GR	Е	32	2007	COMERE	COER	1.5	14	erecta	4	
0705004	0.0	_		0007	0)/DDET	0)/DE44	0.5	4-	Cyperus		0700004 044
07GR001	GR	Е	32	2007	CYPRET	CYRE14	0.5	15	retroflexus	3	07GC001- G14
0700004	OD	_	20	0007	DIODUD	DIDLIO	_	20	Digitaria		
07GR001	GR	Е	32	2007	DIGPUB	DIPU9	2	30	pubiflora	3	
07GR001	GR	E	32	2007	ERIANN	ERAN4	0.1	65	Eriogonum annuum	4	
U/GRUUT	GK	<u> </u>	32	2007	ENIAMIN	ENAIN4	0.1	03	Heterotheca	4	
07GR001	GR	E	32	2007	HETVIL	HEVI4	0.1	23	villosa	4	07GC001- F37
07011001	OIX	_	32	2001	IILI VIL	I I L V I T	0.1		Paronychia		0700001 107
07GR001	GR	E	32	2007	PARJAM	PAJA	2	9	jamesii	4	
0.0.1001	O. C.		02	2001	. ,	1 7 107 1	_		Paspalum		
									setaceum var.		
07GR001	GR	E	32	2007	PASSETS	PASES	1	20	stramineum	3	
07GR001	GR	Е	32	2007	POMJAM	POJA5	0.1	9	Pomaria jamesii	4	
									Psilostrophe		
07GR001	GR	E	32	2007	PSITAG	PSTA	0.5	7	tagetina	4	
									Quercus		
07GR001	GR	E	32	2007	QUEHAV	QUHA3	25	45	havardii	2	
									Schizachyrium		
07GR001	GR	E	32	2007	SCHSCO	SCSC	30	20	scoparium	3	
									Sporobolus		
07GR001	GR	E	32	2007	SPOCRY	SPCR	2	28	cryptandrus	3	
		_						_	Andropogon		
07GR001	GR	Е	42	2007	ANDHAL	ANHA	3	70	hallii	3	
		_			50110115	50011			Bouteloua		
07GR001	GR	E	42	2007	BOUCUR	BOCU	3	20	curtipendula	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Bouteloua		
07GR001	GR	E	42	2007	BOUHIR	BOHI2	1	10	hirsuta	3	
									Calylophus		
07GR001	GR	E	42	2007	CALSER	CASE12	2	30	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	E	42	2007	CHAFEN	CHFE3	1	3	fendleri	4	
_	_								Cycloloma		
07GR001	GR	Е	42	2007	CYCATR	CYAT	0.5	20	atriplicifolium	4	
		_	4.0		0) (00.55	0)/0544			Cyperus		
07GR001	GR	Е	42	2007	CYPRET	CYRE14	0.1	40	retroflexus	3	07GC001- G14
0700004	0.0	_	40	0007	EDIANINI	EDANIA	0.4	-00	Eriogonum	_	
07GR001	GR	Е	42	2007	ERIANN	ERAN4	0.1	22	annuum	4	
0700004	GR	E	40	2007	LINRIGR	LIDID		70	Linum rigidum	4	07GC001- F16
07GR001	GR	<b>_</b>	42	2007	LINKIGK	LIRIR	1	70	var. rigidum Paspalum	4	0/GC001-F16
									setaceum var.		
07GR001	GR	E	42	2007	PASSETS	PASES	2	15	stramineum	3	
0701001	GIX	<b>–</b>	72	2001	TAGGETG	TAGEG		13	Quercus	3	
07GR001	GR	E	42	2007	QUEHAV	QUHA3	35	40	havardii	2	
07 011001	OI (	_	12	2007	QUEINT	Q011/10	- 00	10	Schizachyrium		
07GR001	GR	E	42	2007	SCHSCO	SCSC	12	25	scoparium	3	
									Sporobolus		
07GR001	GR	E	42	2007	SPOCRY	SPCR	0.5	30	cryptandrus	3	
									Xanthisma		
07GR001	GR	E	42	2007	XANSPI2	MAPI	1.5	30	spinulosum	4	
07GR001	GR	E	42	2007	YUCGLA	YUGL	0.1	54	Yucca glauca	2	
									Ambrosia		
07GR001	GR	F	2	2007	AMBPSI	AMPS	1	15	psilostachya	4	
									Andropogon		
07GR001	GR	F	2	2007	ANDHAL	ANHA	4	48	hallii	3	
_					_				Bouteloua		
07GR001	GR	F	2	2007	BOUHIR	BOHI2	8	15	hirsuta	3	
									Calylophus		
07GR001	GR	F	2	2007	CALSER	CASE12	6	28	serrulatus	4	07GC001- F19
070506		_		000-	01140134	01101.40			Chamaesyce		0700004 544
07GR001	GR	F	2	2007	CHAGLY	CHGL13	1.5	2	glyptosperma	4	07GC001- F14
0700004	OD	_		0007	LINDIOD	LIDID		0.5	Linum rigidum	_	0700004 540
07GR001	GR	F	2	2007	LINRIGR	LIRIR	1	25	var. rigidum	4	07GC001- F16

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GR001	GR	F	2	2007	PASSETS	PASES	6	20	stramineum	3	
									Quercus		
07GR001	GR	F	2	2007	QUEHAV	QUHA3	12	35	havardii	2	
									Schizachyrium		
07GR001	GR	F	2	2007	SCHSCO	SCSC	30	25	scoparium	3	
									Sporobolus		
07GR001	GR	F	2	2007	SPOCRY	SPCR	1	25	cryptandrus	3	
07GR001	GR	F	2	2007	YUCGLA	YUGL	6	50	Yucca glauca	2	
									Ambrosia		
07GR001	GR	F	12	2007	AMBPSI	AMPS	0.5	17	psilostachya	4	
									Andropogon		
07GR001	GR	F	12	2007	ANDHAL	ANHA	5	70	hallii	3	
									Aristida		
07GR001	GR	F	12	2007	ARIPUR	ARPU9	0.5	20	purpurea	3	
									Bouteloua		
07GR001	GR	F	12	2007	BOUHIR	BOHI2	4	13	hirsuta	3	
									Calylophus		
07GR001	GR	F	12	2007	CALSER	CASE12	1	30	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	F	12	2007	CHAFEN	CHFE3	3	3	fendleri	4	
	_								Chamaesyce		
07GR001	GR	F	12	2007	CHAGLY	CHGL13	0.1	4	glyptosperma	4	07GC001- F14
		_							Commelina	_	
07GR001	GR	F	12	2007	COMERE	COER	1	35	erecta	4	
.=		_			0)/0055	0)/5=44		4.0	Cyperus		
07GR001	GR	F	12	2007	CYPRET	CYRE14	0.1	40	retroflexus	3	07GC001- G14
0700004	0.0	_	40	0007	DIODUD	DIDLIO		_	Digitaria		
07GR001	GR	F	12	2007	DIGPUB	DIPU9	1	7	pubiflora	3	
0705004	OD	_	40	0007	ED 4 0 E 0	EDOE	_		Eragrostis		0700004 040
07GR001	GR	F	12	2007	ERASEC	ERSE	1	30	secundiflora	3	07GC001- G10
070001	CD	F	40	2007	LINDIOD	LIDID		45	Linum rigidum	_	0700004 540
07GR001	GR	<u> </u>	12	2007	LINRIGR	LIRIR	0.5	45	var. rigidum	4	07GC001- F16
									Paspalum setaceum var.		
07GR001	GR	F	12	2007	PASSETS	PASES	6	16	stramineum	3	
07GR001	GR	F	12	2007	QUEHAV	QUHA3	23	50	Quercus	2	
0/68001	GK	<b>「</b>	12	2007	QUEHAV	QUTA3		၂ ၁ပ	Quercus		

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									havardii		
									Schizachyrium		
07GR001	GR	F	12	2007	SCHSCO	SCSC	18	35	scoparium	3	
									Ambrosia		
07GR001	GR	F	22	2007	AMBPSI	AMPS	0.5	40	psilostachya	4	
									Bouteloua		
07GR001	GR	F	22	2007	BOUHIR	BOHI2	2.5	10		3	
									Chamaesyce		
07GR001	GR	F	22	2007	CHAFEN	CHFE3	0.5	2	fendleri	4	
									Chamaesyce		
07GR001	GR	F	22	2007	CHAGLY	CHGL13	0.5	2	071	4	07GC001- F14
									Cyperus		
07GR001	GR	F	22	2007	CYPRET	CYRE14	0.1	7	retroflexus	3	07GC001- G14
									Digitaria		
07GR001	GR	F	22	2007	DIGPUB	DIPU9	2	35	pubiflora	3	
									Evolvulus		
07GR001	GR	F	22	2007	EVOSER	EVSE	1.5	20	sericeus	4	07GC001- F34
									Heterotheca		
07GR001	GR	F	22	2007	HETVIL	HEVI4	0.5	25	villosa	4	07GC001- F37
_					_				Linum rigidum		
07GR001	GR	F	22	2007	LINRIGR	LIRIR	1	33	var. rigidum	4	07GC001- F16
		_							Paronychia		
07GR001	GR	F	22	2007	PARJAM	PAJA	0.5	8	jamesii	4	
									Paspalum		
		_			54005-	5.050			setaceum var.		
07GR001	GR	F	22	2007	PASSETS	PASES	3	18	stramineum	3	
		_			500==11	D075-			Psoralidium		
07GR001	GR	F	22	2007	PSOTEN	PSTE5	0.5	38	tenuiflorum	4	
0700004	0.5	_		0007	011511417	0111140	0.5	00	Quercus		
07GR001	GR	F	22	2007	QUEHAV	QUHA3	25	38	havardii	2	
070001	OD	_	000	0007	0011000	0000	0.5		Schizachyrium		
07GR001	GR	F	22	2007	SCHSCO	SCSC	35	24	scoparium	3	
0700004	0.0	_	00	0007	VANODIC	MADI		00	Xanthisma		
07GR001	GR	F	22	2007	XANSPI2	MAPI	0.1	20	spinulosum	4	
070004	CD	F	20	2007	AMDDOL	AMDO		40	Ambrosia		
07GR001	GR	<u> </u>	32	2007	AMBPSI	AMPS	0.1	16		4	
070004	CD	F	20	2007	ANIDLIAL	ANILIA	_	C0	Andropogon		
07GR001	GR	F	32	2007	ANDHAL	ANHA	7	60	hallii	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Aristida		
07GR001	GR	F	32	2007	ARIPUR	ARPU9	1	15	purpurea	3	
									Bouteloua		
07GR001	GR	F	32	2007	BOUHIR	BOHI2	4	8	hirsuta	3	
									Calylophus		
07GR001	GR	F	32	2007	CALSER	CASE12	0.5	20	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	F	32	2007	CHAGLY	CHGL13	0.1	3	glyptosperma	4	07GC001- F14
	_								Commelina		
07GR001	GR	F	32	2007	COMERE	COER	0.1	15	erecta	4	
07GR001	GR	F	32	2007	DALPUR	DAPU5	0.1	8	Dalea purpurea	4	07GC001- F38
<b></b>		_					_		Digitaria	_	
07GR001	GR	F	32	2007	DIGPUB	DIPU9	2	13	pubiflora	3	
	0.5	_							Eragrostis		
07GR001	GR	F	32	2007	ERASEC	ERSE	2	12	secundiflora	3	07GC001- G10
0705004	0.5	_		0007	EDIANINI	ED ANIA		4-	Eriogonum		
07GR001	GR	F	32	2007	ERIANN	ERAN4	0.1	15	annuum	4	
0705004	0.5	_		0007		1.514110			Lechea		0700004 507
07GR001	GR	F	32	2007	LECMUC	LEMU3	0.1	6	mucronata	4	07GC001- F27
070001	GR	F	22	2007	LINRIGR	LIRIR	0.5	45	Linum rigidum	4	0700001 516
07GR001	GR	Г	32	2007	LINKIGK	LIKIK	0.5	45	var. rigidum Quercus	4	07GC001- F16
07GR001	GR	F	32	2007	QUEHAV	QUHA3	12	35	havardii	2	
U/GRUUT	GK	<u> </u>	32	2007	QUELIAV	QUIIAS	12	33	Schizachyrium		
07GR001	GR	F	32	2007	SCHSCO	scsc	25	30	scoparium	3	
07 011001	OIX	•	02	2001	0011000	0000	20	- 00	Xanthisma	0	
07GR001	GR	F	32	2007	XANSPI2	MAPI	0.1	18	spinulosum	4	
0.0.001	J. C.	•	02	2001	70 101 12	1407 (1 1	0		Ambrosia		
07GR001	GR	F	42	2007	AMBPSI	AMPS	1.5	25	psilostachya	4	
					_	_			Andropogon		
07GR001	GR	F	42	2007	ANDHAL	ANHA	20	60	hallii	3	
									Bouteloua		
07GR001	GR	F	42	2007	BOUHIR	BOHI2	5	15	hirsuta	3	
									Calylophus		
07GR001	GR	F	42	2007	CALSER	CASE12	6	20	serrulatus	4	07GC001- F19
									Evolvulus		
07GR001	GR	F	42	2007	EVOSER	EVSE	2	18	sericeus	4	07GC001- F34
07GR001	GR	F	42	2007	HETVIL	HEVI4	0.5	12	Heterotheca	4	07GC001- F37

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									villosa		
									Lithospermum		
07GR001	GR	F	42	2007	LITMUL	LIMU3	0.5	12	multiflorum	4	
									Paronychia		
07GR001	GR	F	42	2007	PARJAM	PAJA	0.5	7	jamesii	4	
									Paspalum		
<b></b>		_							setaceum var.	_	
07GR001	GR	F	42	2007	PASSETS	PASES	2	25	stramineum	3	
.=	0.5	_			0.15.14.7				Quercus		
07GR001	GR	F	42	2007	QUEHAV	QUHA3	40	38	havardii	2	
0700004	0.0	_	40	0007	0011000	0000	4.5	0.5	Schizachyrium		
07GR001	GR	F	42	2007	SCHSCO	SCSC	15	35	scoparium	3	
0700004	GR	F	40	2007	CDOCDV	CDCD		20	Sporobolus		
07GR001	GR	Г	42	2007	SPOCRY	SPCR	2	30	cryptandrus Xanthisma	3	
07GR001	GR	F	42	2007	XANSPI2	MAPI	1	22	spinulosum	4	
UIGRUUT	GK	Г	42	2007	AANSPIZ	IVIACI	I		Ambrosia	4	
07GR001	GR	G	2	2007	AMBPSI	AMPS	0.1	20	psilostachya	4	
07 GIXOUT	GIX	G		2001	AIVIDE SI	AIVIFO	0.1	20	Andropogon	4	
07GR001	GR	G	2	2007	ANDHAL	ANHA	1	56	hallii	3	
07 011001	UK .			2001	7111011712	7.000		- 00	Aristida		
07GR001	GR	G	2	2007	ARIPUR	ARPU9	1	15	purpurea	3	
0.0.100.					7 ( 0	7			Bouteloua		
07GR001	GR	G	2	2007	BOUHIR	BOHI2	2	20	hirsuta	3	
									Calylophus		
07GR001	GR	G	2	2007	CALSER	CASE12	2	28	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	G	2	2007	CHAGLY	CHGL13	1	3	glyptosperma	4	07GC001- F14
									Commelina		
07GR001	GR	G	2	2007	COMERE	COER	0.5	26	erecta	4	
									Cryptantha		
07GR001	GR	G	2	2007	CRYCIN	CRCI3	0.1	4	cinerea	4	
_	_								Cyperus		
07GR001	GR	G	2	2007	CYPRET	CYRE14	0.1	10	retroflexus	3	07GC001- G14
					5105115	DIBLIG			Digitaria		
07GR001	GR	G	2	2007	DIGPUB	DIPU9	2	18	pubiflora	3	
0700004	OD			0007	EDIANIN	ED ANIA	0.4		Eriogonum		
07GR001	GR	G	2	2007	ERIANN	ERAN4	0.1	56	annuum	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Heterotheca		
07GR001	GR	G	2	2007	HETSUB	HESU3	0.5	36	subaxillaris	4	
									Lechea		
07GR001	GR	G	2	2007	LECMUC	LEMU3	2	12	mucronata	4	07GC001- F27
									Paspalum		
									setaceum var.		
07GR001	GR	G	2	2007	PASSETS	PASES	10	17	stramineum	3	
									Quercus		
07GR001	GR	G	2	2007	QUEHAV	QUHA3	10	26	havardii	2	
0705004	0.0			0007	0011000	0000	40	-00	Schizachyrium		
07GR001	GR	G	2	2007	SCHSCO	SCSC	40	32	scoparium	3	
0700004	0.0			0007	0D00DV	0000	0.5	40	Sporobolus		
07GR001	GR	G	2	2007	SPOCRY	SPCR	2.5	16	cryptandrus	3	
0700004	GR	G		2007	VANCDIO	MAPI	0.4	24	Xanthisma	4	
07GR001	GR	G	2	2007	XANSPI2	MAPI	0.1	24	spinulosum	4	
									Xanthisma texanum ssp.		
07GR001	GR	G	2	2007	XANTEXD	XATED2	0.5	20	drummondii	4	
07GR001	GIX	G		2001	AANTLAD	AATLDZ	0.5	20	Bouteloua	4	
07GR001	GR	G	12	2007	BOUCUR	BOCU	0.1	30	curtipendula	3	
07 011001	OIX		12	2001	Booon	2000	0.1	- 00	Bouteloua		
07GR001	GR	G	12	2007	BOUHIR	BOHI2	17	12	hirsuta	3	
									Calylophus		
07GR001	GR	G	12	2007	CALSER	CASE12	0.1	25	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	G	12	2007	CHAGLY	CHGL13	0.1	4	glyptosperma	4	07GC001- F14
									Commelina		
07GR001	GR	G	12	2007	COMERE	COER	0.5	30	erecta	4	
									Dalea nana var.		
07GR001	GR	G	12	2007	DALNANN	DANAN	0.1	4	nana	4	07GC001- F35
									Digitaria		
07GR001	GR	G	12	2007	DIGPUB	DIPU9	1	3	pubiflora	3	
									Eriogonum		
07GR001	GR	G	12	2007	ERIANN	ERAN4	1	60	annuum	4	
									Heterotheca		
07GR001	GR	G	12	2007	HETSUB	HESU3	0.1	15	subaxillaris	4	
070506	0.0		4.0	000-		1 514110		_	Lechea		070004 505
07GR001	GR	G	12	2007	LECMUC	LEMU3	0.5	5	mucronata	4	07GC001- F27

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Linum rigidum		
07GR001	GR	G	12	2007	LINRIGR	LIRIR	1	45	var. rigidum	4	07GC001- F16
									Melampodium		
07GR001	GR	G	12	2007	MELLEU	MELE2	1	15	leucanthum	4	
									Paspalum		
									setaceum var.		
07GR001	GR	G	12	2007	PASSETS	PASES	2	15	stramineum	3	
									Quercus		
07GR001	GR	G	12	2007	QUEHAV	QUHA3	10	40	havardii	2	
									Schizachyrium		
07GR001	GR	G	12	2007	SCHSCO	SCSC	25	38	scoparium	3	
									Sporobolus		
07GR001	GR	G	12	2007	SPOCRY	SPCR	2	30	cryptandrus	3	
07GR001	GR	G	12	2007	YUCGLA	YUGL	2	50	Yucca glauca	2	
									Andropogon		
07GR001	GR	G	22	2007	ANDHAL	ANHA	10	40	hallii	3	
									Bouteloua		
07GR001	GR	G	22	2007	BOUCUR	BOCU	5	22	curtipendula	3	
									Commelina		
07GR001	GR	G	22	2007	COMERE	COER	2.5	32	erecta	4	
									Eragrostis		
07GR001	GR	G	22	2007	ERASEC	ERSE	2	25	secundiflora	3	07GC001- G10
									Linum rigidum		
07GR001	GR	G	22	2007	LINRIGR	LIRIR	1	35	var. rigidum	4	07GC001- F16
									Lithospermum		
07GR001	GR	G	22	2007	LITMUL	LIMU3	1	15	multiflorum	4	
									Paronychia		
07GR001	GR	G	22	2007	PARJAM	PAJA	4	15	jamesii	4	
									Paspalum		
	_	_							setaceum var.		
07GR001	GR	G	22	2007	PASSETS	PASES	2	15	stramineum	3	
<b>_</b>									Quercus		
07GR001	GR	G	22	2007	QUEHAV	QUHA3	25	35	havardii	2	
									Schizachyrium		
07GR001	GR	G	22	2007	SCHSCO	SCSC	40	30	scoparium	3	
									Sporobolus		
07GR001	GR	G	22	2007	SPOCRY	SPCR	1	25	cryptandrus	3	
07GR001	GR	G	22	2007	THEMEG	THME	0.1	15	Thelesperma	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									megapotamicum		
									Ambrosia		
07GR001	GR	G	32	2007	AMBPSI	AMPS	0.1	30	psilostachya	4	
									Andropogon		
07GR001	GR	G	32	2007	ANDHAL	ANHA	3	70	hallii	3	
									Bouteloua		
07GR001	GR	G	32	2007	BOUHIR	BOHI2	1	12	hirsuta	3	
									Calylophus		
07GR001	GR	G	32	2007	CALSER	CASE12	1	35	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	G	32	2007	CHAFEN	CHFE3	2	3	fendleri	4	
									Cycloloma		
07GR001	GR	G	32	2007	CYCATR	CYAT	0.1	4	atriplicifolium	4	
									Cyperus		
07GR001	GR	G	32	2007	CYPRET	CYRE14	0.1	20	retroflexus	3	07GC001- G14
07GR001	GR	G	32	2007	DALPUR	DAPU5	1	35	Dalea purpurea	4	07GC001- F38
									Digitaria		
07GR001	GR	G	32	2007	DIGPUB	DIPU9	0.5	25	pubiflora	3	
									Eriogonum		
07GR001	GR	G	32	2007	ERIANN	ERAN4	0.1	36	annuum	4	
07GR001	GR	G	32	2007	GAUVIL	GAVI2	3	55	Gaura villosa	4	
									Heterotheca		
07GR001	GR	G	32	2007	HETVIL	HEVI4	0.5	27	villosa	4	07GC001- F37
									Lechea		
07GR001	GR	G	32	2007	LECMUC	LEMU3	0.5	35	mucronata	4	07GC001- F27
		_							Linum rigidum	_	
07GR001	GR	G	32	2007	LINRIGR	LIRIR	0.5	35	var. rigidum	4	07GC001- F16
								_	Loeflingia	_	
07GR001	GR	G	32	2007	LOESQU	LOSQ	0.1	5	squarrosa	4	
0700001	0.0		00	0007	DAL ODLI	DAOD	0.4	00	Palafoxia		
07GR001	GR	G	32	2007	PALSPH	PASP	0.1	22	sphacelata	4	
070004	OD		00	0007	DADIANA	DAIA		40	Paronychia	_	
07GR001	GR	G	32	2007	PARJAM	PAJA	1	13	· ·	4	
									Paspalum		
070004	CD		20	2007	DACCETO	DACEC	_	20	setaceum var.	2	
07GR001	GR	G	32	2007	PASSETS	PASES	2	20	stramineum	3	
07GR001	GR	G	32	2007	QUEHAV	QUHA3	7	40	Quercus havardii	2	
UIGRUUI	GK	U	52	2007	QUEHAV	QUIAS		40	Havaruli		

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Schizachyrium		
07GR001	GR	G	32	2007	SCHSCO	SCSC	45	35	scoparium	3	
									Thelesperma		
07GR001	GR	G	32	2007	THEMEG	THME	1	55	megapotamicum	4	
07GR001	GR	G	32	2007	YUCGLA	YUGL	12	75	Yucca glauca	2	
									Andropogon		
07GR001	GR	G	42	2007	ANDHAL	ANHA	6	50	hallii	3	
									Bouteloua		
07GR001	GR	G	42	2007	BOUHIR	BOHI2	2	10	hirsuta	3	
									Chamaesyce		
07GR001	GR	G	42	2007	CHAFEN	CHFE3	3	2	fendleri	4	
									Commelina		
07GR001	GR	G	42	2007	COMERE	COER	0.5	16	erecta	4	
									Conyza		
07GR001	GR	G	42	2007	CONCAN	COCA5	0.1	29	canadensis	4	
									Cyperus		
07GR001	GR	G	42	2007	CYPRET	CYRE14	0.5	20	retroflexus	3	07GC001- G14
									Eragrostis		
07GR001	GR	G	42	2007	ERASEC	ERSE	1	20	secundiflora	3	07GC001- G10
<b>_</b>									Eriogonum	_	
07GR001	GR	G	42	2007	ERIANN	ERAN4	0.5	33	annuum	4	
									Heterotheca	_	
07GR001	GR	G	42	2007	HETVIL	HEVI4	6	20	villosa	4	07GC001- F37
0705004	0.5		40	0007		1.514110		4.0	Lechea		0700004 507
07GR001	GR	G	42	2007	LECMUC	LEMU3	1	10	mucronata	4	07GC001- F27
0700004	0.0		40	0007	LINDIOD	LIDID	0.4	40	Linum rigidum		0700004 540
07GR001	GR	G	42	2007	LINRIGR	LIRIR	0.1	18	var. rigidum	4	07GC001- F16
0700004	OD		40	0007	DADIAM	DAIA	0.5		Paronychia	_	
07GR001	GR	G	42	2007	PARJAM	PAJA	2.5	6	jamesii	4	
									Paspalum		
07GR001	GR	G	42	2007	PASSETS	PASES	1.5	20	setaceum var.	_	
07GR001	GR	G	42	2007	PASSETS	PASES	1.5	20	stramineum	3	
07GR001	GR	G	42	2007	PSOTEN	PSTE5	5	70	Psoralidium tenuiflorum	4	
UIGRUUI	GK	G	42	2007	FSUIEN	FOIED	5	70	Quercus	4	
07GR001	GR	G	42	2007	QUEHAV	QUHA3	12	28	havardii	2	
UI GINUU I	GIX	9	44	2001	QULITAV	QUI IAS	14	20	Schizachyrium		
07GR001	GR	G	42	2007	SCHSCO	SCSC	40	26	scoparium	3	
or GINOUT	UIN	J	42	2007	3011300	1000	40		Scopanum	<u> </u>	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Thelesperma		
07GR001	GR	G	42	2007	THEMEG	THME	0.5	15	megapotamicum	4	
									Xanthisma		
07GR001	GR	G	42	2007	XANSPI2	MAPI	1.5	20	spinulosum	4	
									Ambrosia		
07GR001	GR	Н	2	2007	AMBPSI	AMPS	0.1	11	psilostachya	4	
									Bouteloua		
07GR001	GR	Н	2	2007	BOUHIR	BOHI2	2	15	hirsuta	3	
									Chamaesyce		
07GR001	GR	Н	2	2007	CHAGLY	CHGL13	0.5	3	glyptosperma	4	07GC001- F14
									Comandra		
									umbellata ssp.		
07GR001	GR	Н	2	2007	COMUMBP	COUMP	2	12	pallida	4	
									Commelina		
07GR001	GR	Н	2	2007	COMERE	COER	0.1	10	erecta	4	
									Eragrostis		
07GR001	GR	Н	2	2007	ERASEC	ERSE	0.5	20	secundiflora	3	07GC001- G10
									Eriogonum		
07GR001	GR	Н	2	2007	ERIANN	ERAN4	0.1	14	1	4	
									Froelichia		
07GR001	GR	Н	2	2007	FROGRA	FRGR3	0.1	4	gracilis	4	
									Heterotheca		
07GR001	GR	Н	2	2007	HETVIL	HEVI4	0.5	25	villosa	4	07GC001- F37
									Lechea		
07GR001	GR	Н	2	2007	LECMUC	LEMU3	0.5	15	mucronata	4	07GC001- F27
									Linum rigidum		
07GR001	GR	Н	2	2007	LINRIGR	LIRIR	0.5	40		4	07GC001- F16
									Paronychia		
07GR001	GR	Н	2	2007	PARJAM	PAJA	0.5	6	jamesii	4	
									Paspalum		
_	_								setaceum var.		
07GR001	GR	Н	2	2007	PASSETS	PASES	1	16	stramineum	3	
									Quercus		
07GR001	GR	Н	2	2007	QUEHAV	QUHA3	20	30	havardii	2	
									Schizachyrium		
07GR001	GR	Н	2	2007	SCHSCO	SCSC	45	30	scoparium	3	
									Andropogon		
07GR001	GR	Н	12	2007	ANDHAL	ANHA	6	40	hallii	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Bouteloua		
07GR001	GR	Н	12	2007	BOUHIR	BOHI2	10	10	hirsuta	3	
									Calylophus		
07GR001	GR	Н	12	2007	CALSER	CASE12	0.5	32	serrulatus	4	07GC001- F19
									Chamaesyce		
07GR001	GR	Н	12	2007	CHAFEN	CHFE3	0.1	3	fendleri	4	
									Comandra		
									umbellata ssp.		
07GR001	GR	Н	12	2007	COMUMBP	COUMP	1.5	14		4	
									Commelina		
07GR001	GR	Н	12	2007	COMERE	COER	0.1	7	erecta	4	
									Cryptantha		
07GR001	GR	Н	12	2007	CRYCIN	CRCI3	0.1	5	cinerea	4	
_	_				_				Cyperus		
07GR001	GR	Н	12	2007	CYPRET	CYRE14	0.1	10	retroflexus	3	07GC001- G14
07GR001	GR	Н	12	2007	DALPUR	DAPU5	0.1	12	Dalea purpurea	4	07GC001- F38
<b>_</b>									Dimorphocarpa	_	
07GR001	GR	Н	12	2007	DIMWIS	DIWI2	0.1	20	wislizeni	4	
									Eragrostis		
07GR001	GR	Н	12	2007	ERASEC	ERSE	3	18	secundiflora	3	07GC001- G10
0705004	0.5		4.0	0007	EDIANINI	ED ANIA		4.0	Eriogonum		
07GR001	GR	Н	12	2007	ERIANN	ERAN4	0.1	18	annuum	4	
07GR001	GR	Н	12	2007	LECMUC	LEMU3	3	30	Lechea		07GC001- F27
07GR001	GR	П	12	2007	LECIVIOC	LEIVIUS	<u> </u>	30	mucronata Linum rigidum	4	07GC001-F27
07GR001	GR	Н	12	2007	LINRIGR	LIRIR	1.5	45	var. rigidum	4	07GC001- F16
U/GRUUT	GK	11	12	2007	LINKIGK	LININ	1.5	45	Palafoxia	4	0790001-710
07GR001	GR	Н	12	2007	PALSPH	PASP	0.1	12	sphacelata	4	
07 01(001	OIX	11	12	2001	TALOTTI	1 701	0.1	12	Paspalum		
									setaceum var.		
07GR001	GR	Н	12	2007	PASSETS	PASES	2	14	stramineum	3	
0.0.00.	O. C			200.	17.00210	171020			Quercus		
07GR001	GR	Н	12	2007	QUEHAV	QUHA3	18	45	havardii	2	
	_		· <u>-</u>						Schizachyrium	_	
07GR001	GR	Н	12	2007	SCHSCO	SCSC	40	40	scoparium	3	
									Thelesperma		
07GR001	GR	Н	12	2007	THEMEG	THME	1	36	megapotamicum	4	
07GR001	GR	Н	22	2007	ANDHAL	ANHA	15	60	Andropogon	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									hallii		
									Bouteloua		
07GR001	GR	Н	22	2007	BOUHIR	BOHI2	2	10	hirsuta	3	
									Calylophus		
07GR001	GR	Н	22	2007	CALSER	CASE12	0.5	25	serrulatus	4	07GC001- F19
									Commelina		
07GR001	GR	Н	22	2007	COMERE	COER	0.1	5	erecta	4	
									Cryptantha		
07GR001	GR	Н	22	2007	CRYCIN	CRCI3	0.1	20	cinerea	4	
070001	0.0		-00	0007	0)/DDET	0)/DE44			Cyperus		0700004 044
07GR001	GR	H	22	2007	CYPRET	CYRE14	0.1	30	retroflexus	3	07GC001- G14
07GR001	GR	Н	22	2007	DALPUR	DAPU5	0.1	5	Dalea purpurea	4	07GC001- F38
0700004	OD		00	0007	EDAGEG	EDOE		4.5	Eragrostis		0700004 040
07GR001	GR	Н	22	2007	ERASEC	ERSE	1	15	secundiflora	3	07GC001- G10
07GR001	GR	Н	22	2007	ERIANN	ERAN4	0.5	55	Eriogonum annuum	4	
UIGRUUT	GK	П		2007	EKIANIN	EKAIN4	0.5	33	Heterotheca	4	
07GR001	GR	Н	22	2007	HETVIL	HEVI4	0.1	14	villosa	4	07GC001- F37
07 GIXOUT	GIX	11		2001	IILIVIL	1 1L V 14	0.1	14	Lechea		0790001-137
07GR001	GR	Н	22	2007	LECMUC	LEMU3	12	55	mucronata	4	07GC001- F27
07 011001	OIX			2001	LLOWIGO	LLIVIOO	12	- 00	Linum rigidum	<u> </u>	0700001 127
07GR001	GR	Н	22	2007	LINRIGR	LIRIR	0.1	10	var. rigidum	4	07GC001- F16
0.0.1001	J. C.			200.	LittiGit		0		Paronychia		0.00001110
07GR001	GR	Н	22	2007	PARJAM	PAJA	1.5	10	jamesii	4	
									Paspalum		
									setaceum var.		
07GR001	GR	Н	22	2007	PASSETS	PASES	1	10	stramineum	3	
									Psoralidium		
07GR001	GR	Н	22	2007	PSOTEN	PSTE5	2	60	tenuiflorum	4	
									Quercus		
07GR001	GR	Н	22	2007	QUEHAV	QUHA3	12	40	havardii	2	
									Schizachyrium		
07GR001	GR	Н	22	2007	SCHSCO	SCSC	40	35	scoparium	3	
070506	0.0			000-	4445561	41400		_	Ambrosia		
07GR001	GR	Н	32	2007	AMBPSI	AMPS	0.1	7	psilostachya	4	
0700004	CD		000	2007	ANIDITAL	A N II I A	_	20	Andropogon		
07GR001	GR	H	32	2007	ANDHAL	ANHA	5	38	hallii	3	
07GR001	GR	Н	32	2007	BOUHIR	BOHI2	8	10	Bouteloua	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									hirsuta		
07GR001	GR	Н	32	2007	CHAFEN	CHFE3	0.1	6	Chamaesyce fendleri	4	
07GR001	GR	Н	32	2007	CHAGLY	CHGL13	0.5	2	Chamaesyce glyptosperma	4	07GC001- F14
07GR001	GR	Н	32	2007	СОМИМВР	COUMP	2	12	Comandra umbellata ssp. pallida	4	
07GR001	GR	Н	32	2007	COMERE	COER	0.1	5	Commelina erecta	4	
07GR001	GR	Н	32	2007	CRYCIN	CRCI3	1	10	Cryptantha cinerea	4	
07GR001	GR	Н	32	2007	CYPRET	CYRE14	0.5	8	Cyperus retroflexus	3	07GC001- G14
07GR001	GR	Н	32	2007	ERASEC	ERSE	2	20	Eragrostis secundiflora	3	
07GR001	GR	Н	32	2007	ERASES	ERSE2	4	20	Eragrostis sessilispica	3	
07GR001	GR	Н	32	2007	ERIANN	ERAN4	1	35	Eriogonum annuum	4	
07GR001	GR	Н	32	2007	HETVIL	HEVI4	0.1	23	Heterotheca villosa	4	07GC001- F37
07GR001	GR	Н	32	2007	LECMUC	LEMU3	20	22	Lechea mucronata	4	07GC001- F27
07GR001	GR	Н	32	2007	LINRIGR	LIRIR	1	35	Linum rigidum var. rigidum	4	07GC001- F16
07GR001	GR	Н	32	2007	PALSPH	PASP	0.1	14	Palafoxia sphacelata	4	
07GR001	GR	Н	32	2007	PASSETS	PASES	4	15	Paspalum setaceum var. stramineum	3	
07GR001	GR	Н	32	2007	QUEHAV	QUHA3	2	25	Quercus havardii	2	
07GR001	GR	Н	32	2007	SCHSCO	scsc	35	25	Schizachyrium scoparium	3	
07GR001	GR	Н	42	2007	AMBPSI	AMPS	0.1	10	Ambrosia psilostachya	4	
07GR001	GR	Н	42	2007	BOUHIR	BOHI2	8	12	Bouteloua	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									hirsuta		
07GR001	GR	Н	42	2007	CHAGLY	CHGL13	0.1	2	Chamaesyce glyptosperma	4	07GC001- F14
						0011145			Comandra umbellata ssp.		
07GR001	GR	Н	42	2007	COMUMBP	COUMP	2	10	pallida	4	
07GR001	GR	Н	42	2007	ERASEC	ERSE	2	20	Eragrostis secundiflora	3	07GC001- G10
07GR001	GR	Н	42	2007	ERIANN	ERAN4	0.1	40	Eriogonum annuum	4	
07GR001	GR	Н	42	2007	LECMUC	LEMU3	3	10	Lechea mucronata	4	07GC001- F27
07GR001	GR	Н	42	2007	LITMUL	LIMU3	0.1	15	Lithospermum multiflorum	4	
07GR001	GR	Н	42	2007	PARJAM	PAJA	1.5	12	Paronychia jamesii	4	
07GR001	GR	Н	42	2007	PASSETS	PASES	6	10	Paspalum setaceum var. stramineum	3	
07GR001	GR	Н	42	2007	PSOTEN	PSTE5	0.5	30	Psoralidium tenuiflorum	4	
07GR001	GR	Н	42	2007	QUEHAV	QUHA3	1	30	Quercus havardii	2	
07GR001	GR	Н	42	2007	SCHSCO	SCSC	25	40	Schizachyrium scoparium	3	
07GR001	GR	Н	42	2007	XANSPI2	MAPI	0.5	23	Xanthisma spinulosum	4	
07GR001	GR	Н	42	2007	XANTEXD	XATED2	1	25	Xanthisma texanum ssp. drummondii	4	
07GY001	GY	Α	2	2007	ANDHAL	ANHA	6	55	Andropogon hallii	3	
07GY001	GY	A	2	2007	ARIPURL	ARPUL	1	10	Aristida purpurea var. longiseta	3	
07GY001	GY	Α	2	2007	BOUHIR	BOHI2	20	10	Bouteloua hirsuta	3	
07GY001	GY	Α	2	2007	CHAGLY	CHGL13	0.5	3	Chamaesyce	4	07GC001- F14

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									glyptosperma		
07GY001	GY	Α	2	2007	CYPRET	CYRE14	0.5	25	Cyperus retroflexus	3	07GC001- G14
07GY001	GY	A	2	2007	DALNANN	DANAN	0.1	8	Dalea nana var. nana	4	07GC001- F35
07GY001	GY	Α	2	2007	DALPUR	DAPU5	0.1	10	Dalea purpurea	4	07GC001- F38
07GY001	GY	Α	2	2007	ERASEC	ERSE	0.5	16	Eragrostis secundiflora	3	07GC001- G10
07GY001	GY	Α	2	2007	ERIANN	ERAN4	0.1	22	Eriogonum annuum	4	
07GY001	GY	Α	2	2007	FROGRA	FRGR3	0.1	20	Froelichia gracilis	4	
07GY001	GY	Α	2	2007	LINRIGR	LIRIR	0.1	16	Linum rigidum var. rigidum	4	07GC001- F16
07GY001	GY	Α	2	2007	PARJAM	PAJA	0.5	7	Paronychia jamesii	4	
07GY001	GY	A	2	2007	PASSETS	PASES	4	15	Paspalum setaceum var. stramineum	3	
07GY001	GY	Α	2	2007	QUEHAV	QUHA3	3	37	Quercus havardii	2	
07GY001	GY	Α	2	2007	SCHSCO	SCSC	25	30	Schizachyrium scoparium	3	
07GY001	GY	Α	2	2007	THEMEG	THME	0.5	50	Thelesperma megapotamicum	4	
07GY001	GY	Α	2	2007	XANSPI2	MAPI	0.5	15	Xanthisma spinulosum	4	
07GY001	GY	Α	12	2007	AMBPSI	AMPS	2	25	Ambrosia psilostachya	4	
07GY001	GY	Α	12	2007	ANDHAL	ANHA	20	50	Andropogon hallii	3	
07GY001	GY	Α	12	2007	ARIPUR	ARPU9	2	8	Aristida purpurea	3	
07GY001	GY	Α	12	2007	BOUHIR	BOHI2	18	10	Bouteloua hirsuta	3	
07GY001	GY	Α	12	2007	CALSER	CASE12	4	30	Calylophus serrulatus	4	07GC001- F19
07GY001	GY	Α	12	2007	CHAGLY	CHGL13	0.5	1	Chamaesyce	4	07GC001- F14

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									glyptosperma		
									Commelina		
07GY001	GY	Α	12	2007	COMERE	COER	0.1	10	erecta	4	
									Cryptantha		
07GY001	GY	Α	12	2007	CRYCIN	CRCI3	2	22	cinerea	4	
07GY001	GY	Α	12	2007	DALPUR	DAPU5	5	40	Dalea purpurea	4	07GC001- F38
									Digitaria		
07GY001	GY	Α	12	2007	DIGPUB	DIPU9	0.5	14	pubiflora	3	
									Eriogonum		
07GY001	GY	Α	12	2007	ERIANN	ERAN4	1	62	annuum	4	
									Paspalum		
									setaceum var.		
07GY001	GY	Α	12	2007	PASSETS	PASES	1	10	stramineum	3	
									Quercus		
07GY001	GY	Α	12	2007	QUEHAV	QUHA3	6	44	havardii	2	
									Schizachyrium		
07GY001	GY	Α	12	2007	SCHSCO	SCSC	25	16	scoparium	3	
		_						_	Thelesperma		
07GY001	GY	Α	12	2007	THEMEG	THME	0.5	8	megapotamicum	4	
		_							Xanthisma		
07GY001	GY	Α	12	2007	XANSPI2	MAPI	0.5	10	spinulosum	4	
0-01/00/	0)/								Ambrosia	_	
07GY001	GY	Α	22	2007	AMBPSI	AMPS	0.1	15	psilostachya	4	
070)/004	0)/	_	00	0007	ANIDITAL	A N II I A		40	Andropogon		
07GY001	GY	Α	22	2007	ANDHAL	ANHA	4	42	hallii	3	
07GY001	GY	_	22	2007	APHRAM	APRA	2	12	Aphanostephus ramosissimus	4	
0761001	GT	Α	22	2007	APHRAIVI	APKA		12	Aristida	4	
07GY001	GY	Α	22	2007	ARIPUR	ARPU9	8	18	purpurea	3	
0761001	Gi			2001	AIXIFUIX	AINFUS	0	10	Bouteloua	3	
07GY001	GY	Α	22	2007	BOUCUR	BOCU	8	12	curtipendula	3	
0/01001	01	Λ		2007	DOOCOIX	DOC0	0	12	Bouteloua	3	
07GY001	GY	Α	22	2007	BOUHIR	BOHI2	20	15	hirsuta	3	
37 3 1 0 0 1		, \		2001	DOUTHIN	DOTTIL	20	10	Commelina	3	
07GY001	GY	Α	22	2007	COMERE	COER	2	24	erecta	4	
2.0.001					33				Cryptantha		
07GY001	GY	Α	22	2007	CRYCIN	CRCI3	2	15	cinerea	4	
07GY001	GY	Α	22	2007	DIGPUB	DIPU9	10	20	Digitaria	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									pubiflora		
									Eriogonum		
07GY001	GY	Α	22	2007	ERIANN	ERAN4	1	62	annuum	4	
									Heterotheca		
07GY001	GY	Α	22	2007	HETVIL	HEVI4	0.5	14	villosa	4	07GC001- F37
									Paspalum		
		_					_		setaceum var.	_	
07GY001	GY	Α	22	2007	PASSETS	PASES	8	12	stramineum	3	
070)(004	0)/			0007	DI AVADIA	DUMB		4.0	Plantago		0700004 504
07GY001	GY	Α	22	2007	PLAWRI4	PLWR	0.5	12		4	07GC001- F24
070)/004	01/	_	00	0007	OLIELIA)/	0111140			Quercus		
07GY001	GY	Α	22	2007	QUEHAV	QUHA3	8	50	havardii	2	
07GY001	GY	_	22	2007	SCHSCO	SCSC	15	22	Schizachyrium	3	
0761001	Gĭ	Α		2007	зспасо	3030	15		scoparium Ambrosia	3	
07GY001	GY	Α	32	2007	AMBPSI	AMPS	0.5	30	psilostachya	4	
0761001	Gi	^	32	2007	AIVIDESI	AIVIFO	0.5	30	Aristida	4	
07GY001	GY	Α	32	2007	ARIPUR	ARPU9	1	17	purpurea	3	
0701001	01		52	2001	AIXII OIX	AIXI 03	1	17	Bouteloua	3	
07GY001	GY	Α	32	2007	BOUHIR	BOHI2	12	10	hirsuta	3	
0701001			- 02	2007	Booring	BOTTIZ			Calylophus	Ū	
07GY001	GY	Α	32	2007	CALSER	CASE12	0.5	25	serrulatus	4	07GC001- F19
						0.1001			Cenchrus		
07GY001	GY	Α	32	2007	CENSPI	CESP4	1	10	spinifex	3	
									Dalea nana var.		
07GY001	GY	Α	32	2007	DALNANN	DANAN	0.1	5	nana	4	07GC001- F35
									Digitaria		
07GY001	GY	Α	32	2007	DIGPUB	DIPU9	45	20	pubiflora	3	
									Eragrostis		
07GY001	GY	Α	32	2007	ERASEC	ERSE	1	12	secundiflora	3	07GC001- G10
									Eriogonum		
07GY001	GY	Α	32	2007	ERIANN	ERAN4	0.1	15		4	
		_							Heterotheca		<b>_</b>
07GY001	GY	Α	32	2007	HETVIL	HEVI4	0.5	12		4	07GC001- F37
070)/06/	0.4		0.0	000-	LINDIOD	LIBIB		4-	Linum rigidum		0700004 540
07GY001	GY	Α	32	2007	LINRIGR	LIRIR	0.5	15	var. rigidum	4	07GC001- F16
070)/004	01/	_	00	0007	DACCETC	DAGEG			Paspalum		
07GY001	GY	Α	32	2007	PASSETS	PASES	6	24	setaceum var.	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									stramineum		
									Plantago		
07GY001	GY	Α	32	2007	PLAWRI4	PLWR	0.1	12	wrightiana	4	07GC001- F24
									Quercus		
07GY001	GY	Α	32	2007	QUEHAV	QUHA3	0.1	15	havardii	2	
									Schizachyrium		
07GY001	GY	Α	32	2007	SCHSCO	SCSC	8	20	scoparium	3	
		_							Sporobolus		
07GY001	GY	Α	32	2007	SPOCRY	SPCR	0.5	18	cryptandrus	3	
0-01/004	0)/								Thelesperma		
07GY001	GY	Α	32	2007	THEMEG	THME	1	50	megapotamicum	4	
070)/004	0)/		20	0007	VANCEIO	MADI	_	47	Xanthisma	_	
07GY001	GY	Α	32	2007	XANSPI2	MAPI	1	17	spinulosum	4	
07GY001	GY	Α	32	2007	YUCGLA	YUGL	0.1	70	Yucca glauca	2	
07GY001	GY	Α	42	2007	AMBPSI	AMPS	3	38	Ambrosia psilostachya	4	
0761001	Gī	A	42	2007	AIVIDESI	AIVIFS	3	30	Aristida	4	
									purpurea var.		
07GY001	GY	Α	42	2007	ARIPURL	ARPUL	20	18	longiseta	3	
0701001	01		72	2001	AINII OINE	AINI OL	20	10	Bouteloua	3	
07GY001	GY	Α	42	2007	BOUCUR	BOCU	1.5	25	curtipendula	3	
0701001	0.			2001	Booodit	1000	1.0		Bouteloua		
07GY001	GY	Α	42	2007	BOUHIR	BOHI2	10	12	hirsuta	3	
									Cenchrus		
07GY001	GY	Α	42	2007	CENSPI	CESP4	2	28	spinifex	3	07GC001- G4
									Cryptantha		
07GY001	GY	Α	42	2007	CRYCIN	CRCI3	2	25	cinerea	4	
									Cyperus		
07GY001	GY	Α	42	2007	CYPRET	CYRE14	0.5	10	retroflexus	3	07GC001- G14
									Evolvulus		
07GY001	GY	Α	42	2007	EVOSER	EVSE	5	16	sericeus	4	07GC001- F34
									Froelichia		
07GY001	GY	Α	42	2007	FROGRA	FRGR3	0.5	10	gracilis	4	
	0.4						_		Heterotheca		
07GY001	GY	Α	42	2007	HETVIL	HEVI4	3	22	villosa	4	07GC001- F37
07GY001	GY	Α	42	2007	LYCSET	LYSE3	1	12	Lycurus setosus	3	
070)(00:	0)/			000-	D.A.D	DA 14	_		Paronychia		
07GY001	GY	Α	42	2007	PARJAM	PAJA	5	10	jamesii	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GY001	GY	Α	42	2007	PASSETS	PASES	12	15	stramineum	3	
									Plantago		
07GY001	GY	Α	42	2007	PLAWRI4	PLWR	1	16	wrightiana	4	07GC001- F24
					_				Quercus		
07GY001	GY	Α	42	2007	QUEHAV	QUHA3	10	50	havardii	2	
070)(004	0)/				0011000	0000			Schizachyrium		
07GY001	GY	Α	42	2007	SCHSCO	SCSC	10	30	scoparium	3	
0701/004	0)/		40	0007	00000	0000		00	Sporobolus		
07GY001	GY	Α	42	2007	SPOCRY	SPCR	6	30	cryptandrus	3	
07GY001	GY	Α	42	2007	THEMEG	THME	6	25	Thelesperma	4	
0761001	GT	A	42	2007	INEMEG	I DIVIE	0	25	megapotamicum Xanthisma	4	
									texanum ssp.		
07GY001	GY	Α	42	2007	XANTEXD	XATED2	0.1	22	drummondii	4	
0/01001	01		72	2001	XANTEXD	AATLDZ	0.1		Ambrosia		
07GY001	GY	В	2	2007	AMBPSI	AMPS	2	30	psilostachya	4	
0701001	01			2001	7 (WIB) OI	711111 0		- 00	Andropogon		
07GY001	GY	В	2	2007	ANDHAL	ANHA	8	70	hallii	3	
		_							Aristida		
07GY001	GY	В	2	2007	ARIPUR	ARPU9	2	20	purpurea	3	
									Bouteloua		
07GY001	GY	В	2	2007	BOUCUR	BOCU	1	20	curtipendula	3	
									Bouteloua		
07GY001	GY	В	2	2007	BOUHIR	BOHI2	6	12	hirsuta	3	
									Commelina		
07GY001	GY	В	2	2007	COMERE	COER	2	30	erecta	4	
									Cryptantha		
07GY001	GY	В	2	2007	CRYCIN	CRCI3	0.5	25	cinerea	4	
		_	_						Eriogonum	_	
07GY001	GY	В	2	2007	ERIANN	ERAN4	0.1	55	annuum	4	
07GY001	GY	В	2	2007	GAUVIL	GAVI2	0.5	36	Gaura villosa	4	
070)/00:	0)/	_	_	000-	LINIDIGE	LIDID			Linum rigidum	_	0700004 540
07GY001	GY	В	2	2007	LINRIGR	LIRIR	0.1	40	var. rigidum	4	07GC001- F16
									Paspalum		
070)(004	CV			2007	DACCETO	DACEC		25	setaceum var.	_	
07GY001	GY	В	2	2007	PASSETS	PASES	0.6	25	stramineum	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
07GY001	GY	В	2	2007	POMJAM	POJA5	0.5	26	Pomaria jamesii	4	
									Quercus		
07GY001	GY	В	2	2007	QUEHAV	QUHA3	30	70	havardii	2	
									Schizachyrium		
07GY001	GY	В	2	2007	SCHSCO	SCSC	18	35	scoparium	3	
									Sporobolus		
07GY001	GY	В	2	2007	SPOCRY	SPCR	2	40	cryptandrus	3	
									Thelesperma		
07GY001	GY	В	2	2007	THEMEG	THME	0.5	73	megapotamicum	4	
		_	_						Xanthisma		
07GY001	GY	В	2	2007	XANSPI2	MAPI	0.1	10	spinulosum	4	
070)/004	01/	_	40	0007	4 DI ID 4 14	4 DD 4		40	Aphanostephus		
07GY001	GY	В	12	2007	APHRAM	APRA	2	12	ramosissimus	4	
070004	GY	Ь	12	2007	ADIDLID	A D DI IO	4	4.4	Aristida	3	
07GY001	GY	В	12	2007	ARIPUR	ARPU9	1	14	purpurea Bouteloua	3	
07GY001	GY	В	12	2007	BOUCUR	BOCU	0.5	20	curtipendula	3	
0761001	Gī	Ь	12	2007	BOUCUR	ВОСО	0.5	20	Bouteloua	3	
07GY001	GY	В	12	2007	BOUHIR	BOHI2	15	14	hirsuta	3	
0/01001	Gi	В	12	2001	BOOTIIK	DOTTIZ	10	14	Chamaesyce	3	
07GY001	GY	В	12	2007	CHAFEN	CHFE3	1.5	15	fendleri	4	
0701001	0.		12	2007	OII/ (I ZIV	OTH LO	1.0	- 10	Dalea nana var.		
07GY001	GY	В	12	2007	DALNANN	DANAN	0.5	10	nana	4	07GC001- F35
0.0.00.							0.0		Eragrostis		0.00000
07GY001	GY	В	12	2007	ERASEC	ERSE	0.5	22	secundiflora	3	07GC001- G10
									Eriogonum		
07GY001	GY	В	12	2007	ERIANN	ERAN4	0.1	36	annuum	4	
									Paspalum		
									setaceum var.		
07GY001	GY	В	12	2007	PASSETS	PASES	5	16	stramineum	3	
									Plantago		
07GY001	GY	В	12	2007	PLAPAT	PLPA2	0.1	6	patagonica	4	07GC001- F24
									Quercus		
07GY001	GY	В	12	2007	QUEHAV	QUHA3	2	54	havardii	2	
		_							Schizachyrium		
07GY001	GY	В	12	2007	SCHSCO	SCSC	30	30	scoparium	3	
070)(00)	0.7	_		000-	000000	0000			Sporobolus		
07GY001	GY	В	12	2007	SPOCRY	SPCR	8	18	cryptandrus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			Thelesperma		
07GY001	GY	В	12	2007	THEMEG	THME	0.5	58	megapotamicum	4	
									Ambrosia		
07GY001	GY	В	22	2007	AMBPSI	AMPS	3	35	psilostachya	4	
									Andropogon		
07GY001	GY	В	22	2007	ANDHAL	ANHA	2	55	hallii	3	
									Aphanostephus		
07GY001	GY	В	22	2007	APHRAM	APRA	0.1	8	ramosissimus	4	
									Bouteloua		
07GY001	GY	В	22	2007	BOUCUR	BOCU	1	20	curtipendula	3	
									Bouteloua		
07GY001	GY	В	22	2007	BOUHIR	BOHI2	6	10	hirsuta	3	
									Calylophus		
07GY001	GY	В	22	2007	CALSER	CASE12	0.1	17	serrulatus	4	07GC001- F19
									Eriogonum		
07GY001	GY	В	22	2007	ERIANN	ERAN4	0.1	48	annuum	4	
07GY001	GY	В	22	2007	GAUVIL	GAVI2	0.1	15	Gaura villosa	4	
									Linum rigidum		
07GY001	GY	В	22	2007	LINRIGR	LIRIR	0.1	34	var. rigidum	4	07GC001- F16
									Paspalum		
									setaceum var.		
07GY001	GY	В	22	2007	PASSETS	PASES	1	20	stramineum	3	
									Quercus		
07GY001	GY	В	22	2007	QUEHAV	QUHA3	25	40	havardii	2	
									Schizachyrium		
07GY001	GY	В	22	2007	SCHSCO	SCSC	35	35	scoparium	3	
									Ambrosia		
07GY001	GY	В	32	2007	AMBPSI	AMPS	3	38	psilostachya	4	
									Andropogon		
07GY001	GY	В	32	2007	ANDHAL	ANHA	5	50	hallii	3	
									Aristida		
07GY001	GY	В	32	2007	ARIPUR	ARPU9	1	14	purpurea	3	
									Bouteloua		
07GY001	GY	В	32	2007	BOUHIR	BOHI2	6	15	hirsuta	3	
									Calylophus		
07GY001	GY	В	32	2007	CALSER	CASE12	3	30	serrulatus	4	07GC001- F19
									Commelina		
07GY001	GY	В	32	2007	COMERE	COER	1	20	erecta	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Cryptantha		
07GY001	GY	В	32	2007	CRYCIN	CRCI3	1	20	cinerea	4	
									Eragrostis		
07GY001	GY	В	32	2007	ERASEC	ERSE	3	16	secundiflora	3	07GC001- G10
									Heterotheca		
07GY001	GY	В	32	2007	HETVIL	HEVI4	1	12	villosa	4	07GC001- F37
									Linum rigidum		
07GY001	GY	В	32	2007	LINRIGR	LIRIR	0.1	15	var. rigidum	4	07GC001- F16
070)/004	0)/	_		0007		1 18 41 10		4.0	Lithospermum		
07GY001	GY	В	32	2007	LITMUL	LIMU3	1	16	multiflorum	4	
070)/004	01/	_	20	0007	N4E11E11	MELEO	0.5	00	Melampodium		
07GY001	GY	В	32	2007	MELLEU	MELE2	2.5	20	leucanthum	4	
									Paspalum setaceum var.		
07GY001	GY	В	32	2007	PASSETS	PASES	8	24	stramineum	3	
0761001	Gi	Ь	32	2007	PASSETS	PASES	0	24	Plantago	3	
07GY001	GY	В	32	2007	PLAPAT	PLPA2	0.1	8	patagonica	4	07GC001- F24
0701001	01		- 32	2001	I LAI AI	I LI AZ	0.1		Schizachyrium	<del>_</del>	0700001 124
07GY001	GY	В	32	2007	SCHSCO	SCSC	15	30	scoparium	3	
0.0.00			- 02	200.	30333	0000		- 00	Sporobolus		
07GY001	GY	В	32	2007	SPOCRY	SPCR	0.1	20	cryptandrus	3	
07GY001	GY	В	32	2007	YUCGLA	YUGL	30	60	Yucca glauca	2	
	_								Andropogon		
07GY001	GY	В	42	2007	ANDHAL	ANHA	2	50	hallii	3	
									Aristida		
									purpurea var.		
07GY001	GY	В	42	2007	ARIPURL	ARPUL	2	12		3	
									Bouteloua		
07GY001	GY	В	42	2007	BOUCUR	BOCU	1	18	curtipendula	3	
_									Bouteloua		
07GY001	GY	В	42	2007	BOUHIR	BOHI2	2	10	hirsuta	3	
		_							Chamaesyce		
07GY001	GY	В	42	2007	CHAGLY	CHGL13	0.5	3	glyptosperma	4	07GC001- F14
070)(00)	01/	_	40	0007	0014555	0050			Commelina		
07GY001	GY	В	42	2007	COMERE	COER	1	30	erecta	4	070000 - 500
07GY001	GY	В	42	2007	DALPUR	DAPU5	0.1	18	Dalea purpurea	4	07GC001- F38
070)/004	01/	_	40	0007	EDIANN	EDANIA	0.4		Eriogonum		
07GY001	GY	В	42	2007	ERIANN	ERAN4	0.1	35	annuum	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Froelichia		
07GY001	GY	В	42	2007	FROGRA	FRGR3	0.1	20	gracilis	4	
									Heterotheca		
07GY001	GY	В	42	2007	HETVIL	HEVI4	1	24	villosa	4	07GC001- F37
									Linum rigidum		
07GY001	GY	В	42	2007	LINRIGR	LIRIR	0.1	20	var. rigidum	4	07GC001- F16
									Paronychia		
07GY001	GY	В	42	2007	PARJAM	PAJA	6	12	jamesii	4	
									Paspalum		
									setaceum var.		
07GY001	GY	В	42	2007	PASSETS	PASES	3	20	stramineum	3	
									Quercus		
07GY001	GY	В	42	2007	QUEHAV	QUHA3	7	40	havardii	2	
									Schizachyrium		
07GY001	GY	В	42	2007	SCHSCO	SCSC	28	35	scoparium	3	
									Ambrosia		
07GY001	GY	С	2	2007	AMBPSI	AMPS	0.1	14	psilostachya	4	
									Aristida		
07GY001	GY	С	2	2007	ARIPUR	ARPU9	12	18	purpurea	3	
									Bouteloua		
07GY001	GY	С	2	2007	BOUCUR	BOCU	1	25	curtipendula	3	
		_							Calylophus		
07GY001	GY	С	2	2007	CALSER	CASE12	0.1	18	serrulatus	4	07GC001- F19
									Chamaesyce		
07GY001	GY	С	2	2007	CHAGLY	CHGL13	1	5	glyptosperma	4	07GC001- F14
			_						Chenopodium		
07GY001	GY	С	2	2007	CHECYC	CHCY	0.1	18	cycloides	4	07GC001- F28
070)/004	0)/			0007	0014505	0050		00	Commelina		
07GY001	GY	С	2	2007	COMERE	COER	1	22	erecta	4	
070)/004	0)/			0007	OVERET	OVDEAA	0.5	40	Cyperus		0700004 044
07GY001	GY	С	2	2007	CYPRET	CYRE14	0.5	12	retroflexus	3	07GC001- G14
070004	GY	С		2007	EDASEC	FDCE	0.5	10	Eragrostis		0700001 010
07GY001	GY	U	2	2007	ERASEC	ERSE	0.5	12	secundiflora	3	07GC001- G10
07GY001	GY	С	2	2007	ERIANN	EDANA	1.5	45	Eriogonum		
076 1001	Gï	U	2	2007	CKIAININ	ERAN4	1.5	45	annuum Heterotheca	4	
07GY001	GY	С	2	2007	HETVIL	HEVI4	1	35	villosa	4	07GC001- F37
	GY	C		2007	PASSETS		3			3	0/0001-73/
07GY001	GΥ	U	2	2007	PASSEIS	PASES	<u> </u>	20	Paspalum	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									setaceum var.		
									stramineum		
									Psilostrophe		
07GY001	GY	С	2	2007	PSITAG	PSTA	0.1	3	tagetina	4	
									Quercus		
07GY001	GY	С	2	2007	QUEHAV	QUHA3	20	30	havardii	2	
									Schizachyrium		
07GY001	GY	С	2	2007	SCHSCO	SCSC	40	28	scoparium	3	
									Sporobolus		
07GY001	GY	С	2	2007	SPOCRY	SPCR	1.5	20	cryptandrus	3	
									Xanthisma		
07GY001	GY	С	2	2007	XANSPI2	MAPI	0.1	14	spinulosum	4	
									Xanthisma		
									texanum ssp.		
07GY001	GY	С	2	2007	XANTEXD	XATED2	0.1	16	drummondii	4	
									Ambrosia		
07GY001	GY	С	12	2007	AMBPSI	AMPS	0.1	11	psilostachya	4	
									Andropogon		
07GY001	GY	С	12	2007	ANDHAL	ANHA	2	70	hallii	3	
									Aphanostephus		
07GY001	GY	С	12	2007	APHRAM	APRA	0.5	12	ramosissimus	4	
									Aristida		
07GY001	GY	С	12	2007	ARIPUR	ARPU9	3	25	purpurea	3	
									Aristida		
									purpurea var.		
07GY001	GY	С	12	2007	ARIPURL	ARPUL	1	15	longiseta	3	
									Asclepias		change ASCMAC
07GY001	GY	С	12	2007	ASCPUM	ASPU	0.1	12	pumila	4	to ASCPUM-YC
									Bouteloua		
07GY001	GY	С	12	2007	BOUCUR	BOCU	0.5	15	curtipendula	3	
									Bouteloua		
07GY001	GY	С	12	2007	BOUHIR	BOHI2	2	8	hirsuta	3	
									Commelina		
07GY001	GY	С	12	2007	COMDIA	CODI4	0.5	23	dianthifolia	4	
									Eragrostis		
07GY001	GY	С	12	2007	ERASEC	ERSE	1	30	secundiflora	3	07GC001- G10
									Eragrostis		
07GY001	GY	С	12	2007	ERASES	ERSE2	0.1	20	sessilispica	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Hesperostipa		
									comata ssp.		
07GY001	GY	С	12	2007	HESCOMC	HECOC8	1	35	comata	3	07GC001- G18
									Paspalum		
									setaceum var.		
07GY001	GY	С	12	2007	PASSETS	PASES	0.5	11	stramineum	3	
<b>_</b>									Quercus	_	
07GY001	GY	С	12	2007	QUEHAV	QUHA3	15	40	havardii	2	
070)/004	0)/		4.0	0007	0011000	0000			Schizachyrium		
07GY001	GY	С	12	2007	SCHSCO	SCSC	30	30	scoparium	3	
070)/004	0)/		40	0007	VANODIO	MADI		0.5	Xanthisma		
07GY001	GY	С	12	2007	XANSPI2	MAPI	1	35	spinulosum	4	
070004	CV		22	2007	AMDDOL	AMDO	4.5	20	Ambrosia		
07GY001	GY	С	22	2007	AMBPSI	AMPS	1.5	30	psilostachya	4	
07GY001	GY	С	22	2007	APHRAM	APRA	0.5	8	Aphanostephus ramosissimus	4	
0761001	Gi	C		2007	AFIINAIVI	AFNA	0.5	0	Aristida	4	
07GY001	GY	С	22	2007	ARIPUR	ARPU9	2	12	purpurea	3	
0701001	01	O		2001	AIGH OIC	AIN 03		12	Bothriochloa	3	
									laguroides ssp.		
07GY001	GY	С	22	2007	BOTLAGT	BOLAT	3	24	torreyana	3	
									Bouteloua		
07GY001	GY	С	22	2007	BOUCUR	BOCU	2	20	curtipendula	3	
									Bouteloua		
07GY001	GY	С	22	2007	BOUHIR	BOHI2	18	12	hirsuta	3	
									Commelina		
07GY001	GY	С	22	2007	COMERE	COER	0.1	5	erecta	4	
									Cryptantha		
07GY001	GY	С	22	2007	CRYCIN	CRCI3	1	28	cinerea	4	
									Dimorphocarpa		
07GY001	GY	С	22	2007	DIMWIS	DIWI2	0.1	26	wislizeni	4	
	0),								Eragrostis		
07GY001	GY	С	22	2007	ERASES	ERSE2	3	16	sessilispica	3	
070)/064	0)/		00	0007	EDIANINI	EDANIA	0.5	00	Eriogonum		
07GY001	GY	С	22	2007	ERIANN	ERAN4	0.5	62	annuum	4	
									Hesperostipa		
07GY001	GY	С	22	2007	HESCOMC	HECOC8	2	20	comata ssp.	2	07GC001- G18
0761001	וטו	U	22	2007	HE3COIVIC	ПЕСОСО			Comata	3	0760001-618

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			Heterotheca		
07GY001	GY	С	22	2007	HETVIL	HEVI4	1	34	villosa	4	07GC001- F37
									Paronychia		
07GY001	GY	С	22	2007	PARJAM	PAJA	1	10	jamesii	4	
									Paspalum		
									setaceum var.		
07GY001	GY	С	22	2007	PASSETS	PASES	10	22	stramineum	3	
									Plantago		
07GY001	GY	С	22	2007	PLAWRI4	PLWR	0.5	14	wrightiana	4	07GC001- F24
									Psilostrophe		
07GY001	GY	С	22	2007	PSITAG	PSTA	0.1	5	tagetina	4	
									Quercus		
07GY001	GY	С	22	2007	QUEHAV	QUHA3	25	30	havardii	2	
									Schizachyrium		
07GY001	GY	С	22	2007	SCHSCO	SCSC	20	28	scoparium	3	
		_							Sporobolus		
07GY001	GY	С	22	2007	SPOCRY	SPCR	2	18	cryptandrus	3	
<b>_</b>									Thelesperma		
07GY001	GY	С	22	2007	THEMEG	THME	1	20	megapotamicum	4	
07GY001	GY	С	22	2007	YUCGLA	YUGL	3	50	Yucca glauca	2	
<b>_</b>									Ambrosia		
07GY001	GY	С	32	2007	AMBPSI	AMPS	1	35	psilostachya	4	
0-01/004	0).				4515115	4.5.5116			Aristida		
07GY001	GY	С	32	2007	ARIPUR	ARPU9	2	15	purpurea	3	
									Aristida		
070)/004	0)/		00	0007	A DIDLIDI	A D D L II			purpurea var.		
07GY001	GY	С	32	2007	ARIPURL	ARPUL	2	8	longiseta	3	
07GY001	GY	С	32	2007	DOLICIID	BOCU	۸,	4.5	Bouteloua		
076 1001	GT	C	32	2007	BOUCUR	ВОСО	0.5	15	curtipendula Bouteloua	3	
07GY001	GY	С	32	2007	BOUHIR	BOHI2	8	10	hirsuta	3	
0761001	Gi	C	32	2007	BOUTIK	DOFFIZ	0	10	Calylophus	3	
07GY001	GY	С	32	2007	CALSER	CASE12	1	30	serrulatus	4	07GC001- F19
0/01001	GI		32	2001	OALSEN	OAGE 12	l I	30	Chamaesyce	4	0190001-118
07GY001	GY	С	32	2007	CHAFEN	CHFE3	0.5	3	fendleri	4	
0701001	01		52	2001	OTIAL LIN	OTH LO	0.5	3	Commelina	4	
07GY001	GY	С	32	2007	COMDIA	CODI4	0.5	17	dianthifolia	4	
07GY001	GY	C	32	2007	ERASEC	ERSE	1	12	Eragrostis	3	07GC001- G10
0701001			52	2007	LIVAGEO	LINOL	I	12	Liagiostis	<u> </u>	0730001-310

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									secundiflora		
									Eriogonum		
07GY001	GY	С	32	2007	ERIANN	ERAN4	0.5	45	annuum	4	
									Linum rigidum		
07GY001	GY	С	32	2007	LINRIGR	LIRIR	0.5	33	var. rigidum	4	07GC001- F16
									Palafoxia		
07GY001	GY	С	32	2007	PALSPH	PASP	0.1	20	sphacelata	4	
									Paspalum		
0=0\(00.4	0.7				5.00==0	5.050			setaceum var.		
07GY001	GY	С	32	2007	PASSETS	PASES	3	15	stramineum	3	
070\/004	01/		20	0007	OLIELIA)/	0111140	40	25	Quercus		
07GY001	GY	С	32	2007	QUEHAV	QUHA3	12	35	havardii	2	
07GY001	GY	С	32	2007	SCHSCO	scsc	28	40	Schizachyrium	3	
0761001	GT	C	32	2007	SCHSCO	3030	20	40	scoparium Thelesperma	3	
07GY001	GY	С	32	2007	THEMEG	THME	0.5	70	megapotamicum	4	
0791001	Gi	C	32	2007	THEMEG	ITIIVIC	0.5	70	Ambrosia	4	
07GY001	GY	С	42	2007	AMBPSI	AMPS	4	30	psilostachya	4	
0701001	01	C	72	2001	AIVIDI OI	Aivii O	7	30	Aristida		
07GY001	GY	С	42	2007	ARIPUR	ARPU9	8	10	purpurea	3	
0.0.00					7 ( 0	7 50			Bouteloua		
07GY001	GY	С	42	2007	BOUCUR	BOCU	3	20	curtipendula	3	
	_	_							Bouteloua		
07GY001	GY	С	42	2007	BOUHIR	BOHI2	15	15	hirsuta	3	
									Commelina		
07GY001	GY	С	42	2007	COMERE	COER	0.5	8	erecta	4	
									Cryptantha		
07GY001	GY	С	42	2007	CRYCIN	CRCI3	2	12	cinerea	4	
									Cyperus		
07GY001	GY	С	42	2007	CYPRET	CYRE14	0.1	9	retroflexus	3	07GC001- G14
									Dalea nana var.		
07GY001	GY	С	42	2007	DALNANN	DANAN	1	6	nana	4	07GC001- F35
07GY001	GY	С	42	2007	DALPUR	DAPU5	0.1	6	Dalea purpurea	4	07GC001- F38
_ <b></b>									Eragrostis		
07GY001	GY	С	42	2007	ERASEC	ERSE	5	20	secundiflora	3	07GC001- G10
0-0)(06:	0.4				E) (0.0EE	E) (0E			Evolvulus		
07GY001	GY	С	42	2007	EVOSER	EVSE	0.5	20	sericeus	4	07GC001- F34
07GY001	GY	С	42	2007	HETVIL	HEVI4	0.1	10	Heterotheca	4	07GC001- F37

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									villosa		
									Linum rigidum		
07GY001	GY	С	42	2007	LINRIGR	LIRIR	1	35	var. rigidum	4	07GC001- F16
									Palafoxia		
07GY001	GY	С	42	2007	PALSPH	PASP	1	18	sphacelata	4	
									Paspalum		
		_							setaceum var.		
07GY001	GY	С	42	2007	PASSETS	PASES	2	14	stramineum	3	
<b>_</b>									Quercus	_	
07GY001	GY	С	42	2007	QUEHAV	QUHA3	15	42	havardii	2	
070)(004	0)/		40	0007	0011000	0000	4.0	4-	Schizachyrium		
07GY001	GY	С	42	2007	SCHSCO	SCSC	10	15	scoparium	3	
070)/004	0)/		40	0007	THEME	T1 18 4F	4.5	40	Thelesperma		
07GY001	GY	С	42	2007	THEMEG	THME	1.5	40	megapotamicum	4	
070\/004	GY	D	_	2007	AMBPSI	AMPS	0.5	24	Ambrosia		
07GY001	GY	D	2	2007	AMBPSI	AIVIPS	0.5	24	psilostachya Bouteloua	4	
07GY001	GY	D	2	2007	BOUCUR	BOCU	7	15	curtipendula	3	
0761001	GT	U		2007	BOUCUR	ВОСО	1	10	Bouteloua	3	
07GY001	GY	D	2	2007	BOUHIR	BOHI2	5	10	hirsuta	3	
0701001	01			2001	BOOTIIK	DOTTIZ	3	10	Commelina	3	
07GY001	GY	D	2	2007	COMERE	COER	0.5	20	erecta	4	
0701001	01			2001	OOWERE	OOLIK	0.0		Eriogonum		
07GY001	GY	D	2	2007	ERIANN	ERAN4	0.1	16	annuum	4	
							_		Evolvulus		
07GY001	GY	D	2	2007	EVOSER	EVSE	1	20	sericeus	4	07GC001- F34
									Paronychia		
07GY001	GY	D	2	2007	PARJAM	PAJA	0.5	8	jamesii	4	
									Paspalum		
									setaceum var.		
07GY001	GY	D	2	2007	PASSETS	PASES	10	20	stramineum	3	
									Plantago		
07GY001	GY	D	2	2007	PLAWRI4	PLWR	0.1	15	wrightiana	4	07GC001- F24
		_							Quercus		
07GY001	GY	D	2	2007	QUEHAV	QUHA3	13	45	havardii	2	
	0.4				0011000	0000			Schizachyrium		
07GY001	GY	D	2	2007	SCHSCO	SCSC	30	40	scoparium	3	
07GY001	GY	D	2	2007	SPOCRY	SPCR	2	40	Sporobolus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									cryptandrus		
07GY001	GY	D	2	2007	YUCGLA	YUGL	35	60	Yucca glauca	2	
									Ambrosia		
07GY001	GY	D	12	2007	AMBPSI	AMPS	0.5	16	psilostachya	4	
									Aphanostephus		
07GY001	GY	D	12	2007	APHRAM	APRA	2	12		4	
									Aristida		
07GY001	GY	D	12	2007	ARIPUR	ARPU9	0.5	15	purpurea	3	
	<b>.</b>	_							Bouteloua		
07GY001	GY	D	12	2007	BOUCUR	BOCU	0.5	18	curtipendula	3	
070)/004	0)/	_	40	0007	DOLUUD	DOLUG	40	40	Bouteloua		
07GY001	GY	D	12	2007	BOUHIR	BOHI2	10	10	hirsuta	3	
07GY001	GY	D	12	2007	CALSER	CASE12	0.5	15	Calylophus serrulatus	4	07GC001- F19
0761001	Gĭ	ט	12	2007	CALSER	CASE12	0.5	15	Chamaesyce	4	0/6001-719
07GY001	GY	D	12	2007	CHAFEN	CHFE3	0.1	2		4	
0761001	Gi	D D	12	2001	CHALLIN	OHI LS	0.1		Commelina	4	
07GY001	GY	D	12	2007	COMERE	COER	0.1	7	erecta	4	
0701001	01		12	2007	OOWERE	OOLIK	0.1		Cryptantha	<u> </u>	
07GY001	GY	D	12	2007	CRYCIN	CRCI3	1.5	15		4	
0.0.00.		_	<u>-</u>			J. (J.)			Cyperus		
07GY001	GY	D	12	2007	CYPRET	CYRE14	0.1	10	retroflexus	3	07GC001- G14
									Eragrostis		
07GY001	GY	D	12	2007	ERASEC	ERSE	6	18	secundiflora	3	07GC001- G10
									Heterotheca		
07GY001	GY	D	12	2007	HETVIL	HEVI4	5	14	villosa	4	07GC001- F37
									Lechea		
07GY001	GY	D	12	2007	LECMUC	LEMU3	0.1	10	mucronata	4	07GC001- F27
									Paronychia		
07GY001	GY	D	12	2007	PARJAM	PAJA	0.1	8	jamesii	4	
									Paspalum		
070)/00/	0)/	_	4.5	000-	DAGGETS	D. 050		4.0	setaceum var.		
07GY001	GY	D	12	2007	PASSETS	PASES	20	18	1	3	
070004	CV	_	40	2007	DI AMDIA	DLWD	0.5	4.5	Plantago	4	0700004 F04
07GY001	GY	D	12	2007	PLAWRI4	PLWR	0.5	15		4	07GC001- F24
07GY001	GY	D	12	2007	QUEHAV	QUHA3	1.5	12	Quercus havardii	2	
	GY	D			SCHSCO	SCSC	30			3	
07GY001	GY	U	12	2007	SCHSCO	3030	30	22	Schizachyrium	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									scoparium		
									Thelesperma		
07GY001	GY	D	12	2007	THEMEG	THME	1	60	megapotamicum	4	
									Xanthisma		
07GY001	GY	D	12	2007	XANSPI2	MAPI	0.1	14	spinulosum	4	
									Xanthisma		
									texanum ssp.		
07GY001	GY	D	12	2007	XANTEXD	XATED2	0.5	15	drummondii	4	
		_							Aphanostephus	_	
07GY001	GY	D	22	2007	APHRAM	APRA	0.5	12	ramosissimus	4	
0=0\(00.4	0.4	_				4.5.5116			Aristida		
07GY001	GY	D	22	2007	ARIPUR	ARPU9	1	10	purpurea	3	
0=0)(00)	0)./	_			50111115	501110		_	Bouteloua		
07GY001	GY	D	22	2007	BOUHIR	BOHI2	10	7	hirsuta	3	
070)/004	0)/	_	00	0007	0014014	00014	0.5	00	Commelina		
07GY001	GY	D	22	2007	COMDIA	CODI4	0.5	30	dianthifolia	4	
070)/004	0)/	_	00	0007	ODVOIN	ODOIO	_	00	Cryptantha	_	
07GY001	GY	D	22	2007	CRYCIN	CRCI3	3	28	cinerea	4	
07GY001	GY	D	22	2007	ERASEC	ERSE	_	20	Eragrostis secundiflora	_	07GC001- G10
0761001	Gĭ	U	22	2007	ERASEC	ERSE	3	20	Eragrostis	3	076001-610
07GY001	GY	D	22	2007	ERASES	ERSE2	1	20	sessilispica	3	
0761001	Gi	U		2007	ENAGES	ENSEZ	I	20	Eriogonum	3	
07GY001	GY	D	22	2007	ERIANN	ERAN4	0.1	65	annuum	4	
0701001	01			2001	LIXIAIN	LIVAINT	0.1	0.5	Lechea		
07GY001	GY	D	22	2007	LECMUC	LEMU3	0.1	10	mucronata	4	07GC001- F27
0701001	0.			2001	LLCIVICO	LLIVIOO	0.1		Linum rigidum	•	0700001 127
07GY001	GY	D	22	2007	LINRIGR	LIRIR	0.5	40	var. rigidum	4	07GC001- F16
0.0.001				200.			0.0		Paspalum		0.00001110
									setaceum var.		
07GY001	GY	D	22	2007	PASSETS	PASES	6	10	stramineum	3	
	_							_	Schizachyrium	_	
07GY001	GY	D	22	2007	SCHSCO	SCSC	20	25	scoparium	3	
									Sporobolus		
07GY001	GY	D	22	2007	SPOCRY	SPCR	2	40	cryptandrus	3	
									Thelesperma		
07GY001	GY	D	22	2007	THEMEG	THME	2	70	megapotamicum	4	
07GY001	GY	D	32	2007	APHRAM	APRA	0.1	6	Aphanostephus	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									ramosissimus		
									Bouteloua		
07GY001	GY	D	32	2007	BOUHIR	BOHI2	10	10	hirsuta	3	
									Calylophus		
07GY001	GY	D	32	2007	CALSER	CASE12	2	20	serrulatus	4	07GC001- F19
									Commelina		
07GY001	GY	D	32	2007	COMERE	COER	0.1	10	erecta	4	
070)(004	0)/				000/000	0000			Cryptantha	_	
07GY001	GY	D	32	2007	CRYCIN	CRCI3	2	20	cinerea	4	
0700004	0)/		20	0007	OVERET	0)/DE4.4	0.5	4.5	Cyperus		0700004 044
07GY001	GY	D	32	2007	CYPRET	CYRE14	0.5	15	retroflexus	3	07GC001- G14
07GY001	GY	D	32	2007	DIGPUB	DIPU9	8	18	Digitaria pubiflora	3	
0761001	GT	ט	32	2007	DIGPUB	DIFU9	0	10	Eragrostis	3	
07GY001	GY	D	32	2007	ERASEC	ERSE	2	14	secundiflora	3	07GC001- G10
0701001	01		52	2001	LIVAGEO	LINOL		17	Eragrostis	3	0700001-010
07GY001	GY	D	32	2007	ERASES	ERSE2	2	15	sessilispica	3	
0701001	01		02	2001	LIVIOLO	LINOLZ		10	Evolvulus	0	
07GY001	GY	D	32	2007	EVOSER	EVSE	2	12	sericeus	4	07GC001- F34
0.0.00.									Linum rigidum		0.000
07GY001	GY	D	32	2007	LINRIGR	LIRIR	0.1	30	var. rigidum	4	07GC001- F16
									Paspalum		
									setaceum var.		
07GY001	GY	D	32	2007	PASSETS	PASES	8	18	stramineum	3	
									Plantago		
07GY001	GY	D	32	2007	PLAWRI4	PLWR	0.1	8	wrightiana	4	07GC001- F24
									Schizachyrium		
07GY001	GY	D	32	2007	SCHSCO	SCSC	20	30	scoparium	3	
		_							Sporobolus		
07GY001	GY	D	32	2007	SPOCRY	SPCR	2	25	cryptandrus	3	
070)(05:	0)(								Thelesperma		
07GY001	GY	D	32	2007	THEMEG	THME	1	68	megapotamicum	4	
070)/064	0)/	_	40	0007	AMPROL	AMPO	0.5	00	Ambrosia		
07GY001	GY	D	42	2007	AMBPSI	AMPS	0.5	22	psilostachya	4	
07GY001	GY	D	40	2007	ANDHAL			e E	Andropogon hallii	3	
076 1001	Gï	ט	42	2007	ANDHAL	ANHA	4	65	Aristida	3	
07GY001	GY	D	42	2007	ARIPUR	ARPU9	0.5	20		3	
0/61001	JI	U	42	2007	ARIFUR	ARFUS	0.5		purpurea		

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Bouteloua		
07GY001	GY	D	42	2007	BOUCUR	BOCU	0.5	20	curtipendula	3	
									Bouteloua		
07GY001	GY	D	42	2007	BOUHIR	BOHI2	6	9	hirsuta	3	
									Commelina		
07GY001	GY	D	42	2007	COMDIA	CODI4	0.5	10	dianthifolia	4	
									Digitaria		
07GY001	GY	D	42	2007	DIGPUB	DIPU9	3	16	pubiflora	3	
									Erigeron		
									bellidiastrum		
									var.		
07GY001	GY	D	42	2007	ERIBELB	ERBEB	0.1	10	bellidiastrum	4	07GR001- F3
									Froelichia		
07GY001	GY	D	42	2007	FROGRA	FRGR3	0.1	3	gracilis	4	
									Paspalum		
									setaceum var.		
07GY001	GY	D	42	2007	PASSETS	PASES	3	14	stramineum	3	
									Quercus		
07GY001	GY	D	42	2007	QUEHAV	QUHA3	3	65	havardii	2	
									Schizachyrium		
07GY001	GY	D	42	2007	SCHSCO	SCSC	25	35	scoparium	3	
									Sporobolus		
07GY001	GY	D	42	2007	SPOCRY	SPCR	1	35	cryptandrus	3	
									Thelesperma		
07GY001	GY	D	42	2007	THEMEG	THME	1	70	megapotamicum	4	
									Ambrosia		
07GY001	GY	E	2	2007	AMBPSI	AMPS	2	18	psilostachya	4	
									Aristida		
07GY001	GY	Е	2	2007	ARIPUR	ARPU9	15	20	purpurea	3	
									Bouteloua		
07GY001	GY	Е	2	2007	BOUHIR	BOHI2	0.5	15	hirsuta	3	
									Commelina		
07GY001	GY	E	2	2007	COMERE	COER	2	20	erecta	4	
									Cryptantha		
07GY001	GY	E	2	2007	CRYCIN	CRCI3	1.5	15	cinerea	4	
									Cycloloma		
07GY001	GY	E	2	2007	CYCATR	CYAT	0.1	5	atriplicifolium	4	
07GY001	GY	E	2	2007	ERIANN	ERAN4	0.1	42	Eriogonum	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									annuum		
									Evolvulus		
07GY001	GY	E	2	2007	EVOSER	EVSE	4	20	sericeus	4	07GC001- F34
									Heterotheca		
07GY001	GY	E	2	2007	HETVIL	HEVI4	2	24	villosa	4	07GC001- F37
									Paronychia		
07GY001	GY	E	2	2007	PARJAM	PAJA	8	6	jamesii	4	
									Paspalum		
									setaceum var.		
07GY001	GY	E	2	2007	PASSETS	PASES	5	20	stramineum	3	
									Quercus		
07GY001	GY	Е	2	2007	QUEHAV	QUHA3	20	35	havardii	2	
									Schizachyrium		
07GY001	GY	E	2	2007	SCHSCO	SCSC	30	28	scoparium	3	
		_	_						Thelesperma	_	
07GY001	GY	Е	2	2007	THEMEG	THME	1	85	megapotamicum	4	
		_	_						Xanthisma	_	
07GY001	GY	Е	2	2007	XANSPI2	MAPI	2	30	spinulosum	4	
070)/004	0)/	_	4.0	0007	4 DIDIID	ADDITO			Aristida		
07GY001	GY	Е	12	2007	ARIPUR	ARPU9	3	20	purpurea	3	
070)/004	0)/	_	40	0007	DOLUUD	DOLUG		40	Bouteloua		
07GY001	GY	Е	12	2007	BOUHIR	BOHI2	2	10	hirsuta	3	
070\/004	GY	E	12	2007	CALCED	CASE12	۸,	40	Calylophus		0700004 540
07GY001	GY	<u> </u>	12	2007	CALSER	CASE12	0.5	12	serrulatus	4	07GC001- F19
07GY001	GY	E	12	2007	CRYCIN	CRCI3	0.5	22	Cryptantha cinerea	4	
07GY001	GY	E	12	2007	GAUVIL	GAVI2	0.5	30	Gaura villosa	4	
0761001	Gī	<u> </u>	12	2007	GAUVIL	GAVIZ	0.1	30	Heterotheca	4	
07GY001	GY	E	12	2007	HETVIL	HEVI4	2	30	villosa	4	07GC001- F37
0761001	Gi	<u> </u>	12	2007	TIETVIL	11E V 14		30	Linum rigidum	4	076001-737
07GY001	GY	E	12	2007	LINRIGR	LIRIR	0.5	35	var. rigidum	4	07GC001- F16
0701001	01	_	12	2001	LIMINION	LIIXIIX	0.5	- 55	Paspalum	4	07 30001-1 10
									setaceum var.		
07GY001	GY	E	12	2007	PASSETS	PASES	0.5	10	stramineum	3	
2. 2. 331		_					0.0		Quercus		
07GY001	GY	E	12	2007	QUEHAV	QUHA3	15	75	havardii	2	
			· <del>-</del>						Schizachyrium	_	
07GY001	GY	E	12	2007	SCHSCO	SCSC	35	30	scoparium	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Andropogon		
07GY001	GY	E	22	2007	ANDHAL	ANHA	30	55	hallii	3	
									Aristida		
07GY001	GY	E	22	2007	ARIPUR	ARPU9	10	25	purpurea	3	
									Bouteloua		
07GY001	GY	E	22	2007	BOUHIR	BOHI2	0.5	6	hirsuta	3	
									Quercus		
07GY001	GY	E	22	2007	QUEHAV	QUHA3	5	45	havardii	2	
									Schizachyrium		
07GY001	GY	E	22	2007	SCHSCO	SCSC	10	30	scoparium	3	
									Sporobolus		
07GY001	GY	E	22	2007	SPOCRY	SPCR	0.5	15	cryptandrus	3	
									Thelesperma		
07GY001	GY	Е	22	2007	THEMEG	THME	2	64	megapotamicum	4	
									Ambrosia		
07GY001	GY	E	32	2007	AMBPSI	AMPS	0.5	16	psilostachya	4	
<b>_</b>									Aristida	_	
07GY001	GY	Е	32	2007	ARIPUR	ARPU9	5	25	purpurea	3	
0=0\(00.4	27.4	_			50110115	20011			Bouteloua		
07GY001	GY	Е	32	2007	BOUCUR	BOCU	10	30	curtipendula	3	
070)/004	0)/	_	00	0007	DOLUMB	DOLUG	40	40	Bouteloua		
07GY001	GY	Е	32	2007	BOUHIR	BOHI2	10	16	hirsuta	3	
070)/004	0)/	_	20	0007	EDIANN	ED ANIA	0.5	- 4	Eriogonum		
07GY001	GY	E	32	2007	ERIANN	ERAN4	0.5	54	annuum	4	
07GY001	GY	E	32	2007	QUEHAV	QUHA3	60	35	Quercus havardii	2	
0761001	Gī	<u> </u>	32	2007	QUEHAV	QUNAS	60	33	Schizachyrium		
07GY001	GY	E	32	2007	SCHSCO	scsc	20	35	scoparium	3	
0761001	Gi	_ <b>L</b>	32	2007	3011300	3030	20	33	Thelesperma	3	
07GY001	GY	E	32	2007	THEMEG	THME	0.1	25	megapotamicum	4	
37 3 1 0 0 1		_	02	2001	TILIVILO	I I IIVIL	0.1	20	Xanthisma	7	
07GY001	GY	E	32	2007	XANSPI2	MAPI	0.1	18	spinulosum	4	
07GY001	GY	E	32	2007	YUCGLA	YUGL	8	60	Yucca glauca	2	
37 3 1 0 0 1		_	02	2001	. JOSEA			- 50	Ambrosia		
07GY001	GY	E	42	2007	AMBPSI	AMPS	0.5	22	psilostachya	4	
37 3 1 0 0 1		_	72	2001	,	7 (1411 )	0.0		Aristida	-	
07GY001	GY	E	42	2007	ARIPUR	ARPU9	8	20	purpurea	3	
07GY001	GY	E	42	2007	BOUCUR	BOCU	2	20	Bouteloua	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									curtipendula		
									Bouteloua		
07GY001	GY	E	42	2007	BOUHIR	BOHI2	3	15	hirsuta	3	
									Chenopodium		
07GY001	GY	E	42	2007	CHECYC	CHCY	0.1	30	cycloides	4	07GC001- F28
07GY001	GY	E	42	2007	CROTEX	CRTE4	1	32	Croton texensis	4	
									Cyperus		
07GY001	GY	E	42	2007	CYPRET	CYRE14	0.1	30	retroflexus	3	07GC001- G14
									Eriogonum		
07GY001	GY	E	42	2007	ERIANN	ERAN4	0.5	60	annuum	4	
									Paspalum		
									setaceum var.		
07GY001	GY	E	42	2007	PASSETS	PASES	1	8	stramineum	3	
_					_				Quercus		
07GY001	GY	Е	42	2007	QUEHAV	QUHA3	60	50	havardii	2	
		_							Schizachyrium	_	
07GY001	GY	Е	42	2007	SCHSCO	SCSC	12	35	scoparium	3	
		_					_		Sporobolus	_	
07GY001	GY	Е	42	2007	SPOCRY	SPCR	2	30	cryptandrus	3	
0-0)/00/	0)/	_							Thelesperma		
07GY001	GY	E	42	2007	THEMEG	THME	1	90	megapotamicum	4	
070)/004	0)/	_		0007	4 0 0 E N 0	AOEN			Asclepias		070)/004 54
07GY001	GY	F	2	2007	ASCENG	ASEN	1	52	engelmanniana	4	07GY001- F1
0701/004	0)/	_		0007	DOLUUD	DOLUG	_	40	Bouteloua		
07GY001	GY	F	2	2007	BOUHIR	BOHI2	5	10	hirsuta	3	
07GY001	GY	F	2	2007	CALSER	CASE12	2	37	Calylophus serrulatus	4	07GC001- F19
0761001	Gī	Г		2007	CALSER	CASE12		31	Chamaesyce	4	076001-719
07GY001	GY	F	2	2007	CHAFEN	CHFE3	1	4	fendleri	4	
07GY001	GY	F	2	2007	DALPUR	DAPU5	0.5	15	Dalea purpurea	4	07GC001- F38
0761001	Gi	Г		2007	DALFUR	DAPUS	0.5	15	Eragrostis	4	0790001-736
07GY001	GY	F	2	2007	ERASES	ERSE2	1	15	sessilispica	3	
0701001	31	I		2001	LIVAGEG	LINOLZ	ı	13	Heterotheca	<u> </u>	
07GY001	GY	F	2	2007	HETVIL	HEVI4	0.5	24	villosa	4	07GC001- F37
0701001		1		2001	TIETVIE	I IL VIT	0.0	47	Linum rigidum	7	07 30001 1 07
07GY001	GY	F	2	2007	LINRIGR	LIRIR	0.1	33	var. rigidum	4	07GC001- F16
3731331		1		2001	LIMINION	LIMIX	0.1	- 00	Paronychia		0,0001110
07GY001	GY	F	2	2007	PARJAM	PAJA	0.5	8	jamesii	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GY001	GY	F	2	2007	PASSETS	PASES	2	12	stramineum	3	
									Schizachyrium		
07GY001	GY	F	2	2007	SCHSCO	SCSC	40	20	scoparium	3	
									Sporobolus		
07GY001	GY	F	2	2007	SPOCRY	SPCR	2	10	cryptandrus	3	
									Xanthisma		
07GY001	GY	F	2	2007	XANSPI2	MAPI	1	30	spinulosum	4	
									Ambrosia		
07GY001	GY	F	12	2007	AMBPSI	AMPS	0.1	9	psilostachya	4	
									Andropogon		
07GY001	GY	F	12	2007	ANDHAL	ANHA	1	35	hallii	3	
									Aphanostephus		
07GY001	GY	F	12	2007	APHRAM	APRA	0.5	13	ramosissimus	4	
		_					_		Bouteloua	_	
07GY001	GY	F	12	2007	BOUCUR	BOCU	3	18	curtipendula	3	
		_					_		Bouteloua	_	
07GY001	GY	F	12	2007	BOUHIR	BOHI2	4	14	hirsuta	3	
		_							Calylophus		
07GY001	GY	F	12	2007	CALSER	CASE12	3	25	serrulatus	4	07GC001- F19
		_							Commelina		
07GY001	GY	F	12	2007	COMERE	COER	0.5	9	erecta	4	
070)/00/	0).	_			05)(01)	0000			Cryptantha		
07GY001	GY	F	12	2007	CRYCIN	CRCI3	0.5	9	cinerea	4	
									Hesperostipa		
070)/004	0)/	_	40	0007	115000140	1150000	_	0.5	comata ssp.		0700004 040
07GY001	GY	F	12	2007	HESCOMC	HECOC8	1	35	comata	3	07GC001- G18
									Paspalum		
070004	GY	F	40	2007	DACCETC	PASES	_	25	setaceum var.		
07GY001	GY	Г	12	2007	PASSETS	PASES	5	25	stramineum	3	
07GY001	GY	F	10	2007	OHEHAV	OLIHAS	25	15	Quercus		
076 1001	GY	Г	12	2007	QUEHAV	QUHA3	25	45	havardii	2	
070004	CV	F	40	2007	6CH6CO	9090	FO	20	Schizachyrium	2	
07GY001	GY	Г	12	2007	SCHSCO	SCSC	50	30	scoparium	3	
07GY001	GY	F	12	2007	SPOCRY	SPCR	1	32	Sporobolus cryptandrus	3	
	GY	F					0.1	18	Xanthisma	4	
07GY001	υĭ	Г	12	2007	XANSPI2	MAPI	0.1	18		4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									spinulosum		
07GY001	GY	F	22	2007	AMBPSI	AMPS	3	35	Ambrosia psilostachya	4	
07GY001	GY	F	22	2007	BOUCUR	BOCU	1	25	Bouteloua curtipendula	3	
07GY001	GY	F	22	2007	BOUHIR	BOHI2	8	10	Bouteloua hirsuta	3	
07GY001	GY	F	22	2007	COMERE	COER	0.1	15	Commelina erecta	4	
07GY001	GY	F	22	2007	ERASEC	ERSE	1	25	Eragrostis secundiflora	3	07GC001- G10
07GY001	GY	F	22	2007	ERIBELB	ERBEB	0.1	18	Erigeron bellidiastrum var. bellidiastrum	4	07GR001- F3
07GY001	GY	F	22	2007	PASSETS	PASES	3	20	Paspalum setaceum var. stramineum	3	
07GY001	GY	F	22	2007	POMJAM	POJA5	0.5	17	Pomaria jamesii	4	
07GY001	GY	F	22	2007	QUEHAV	QUHA3	20	40	Quercus havardii	2	
07GY001	GY	F	22	2007	SCHSCO	SCSC	50	30	Schizachyrium scoparium	3	
07GY001	GY	F	22	2007	SPOCRY	SPCR	0.1	30	Sporobolus cryptandrus	3	
07GY001	GY	F	22	2007	XANSPI2	MAPI	0.1	18	Xanthisma spinulosum	4	
07GY001	GY	F	22	2007	YUCGLA	YUGL	35	60	Yucca glauca	2	
07GY001	GY	F	32	2007	AMBPSI	AMPS	0.5	10	Ambrosia psilostachya	4	
07GY001	GY	F	32	2007	APHRAM	APRA	0.5	15	Aphanostephus ramosissimus	4	
07GY001	GY	F	32	2007	BOUHIR	BOHI2	15	12	Bouteloua hirsuta	3	
07GY001	GY	F	32	2007	CALSER	CASE12	8	40	Calylophus serrulatus	4	07GC001- F19
07GY001	GY	F	32	2007	CENSPI	CESP4	1	18	Cenchrus spinifex	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Commelina		
07GY001	GY	F	32	2007	COMERE	COER	0.5	8	erecta	4	
									Digitaria		
07GY001	GY	F	32	2007	DIGPUB	DIPU9	3	30	pubiflora	3	
									Gutierrezia		
07GY001	GY	F	32	2007	GUTSAR	GUSA2	10	40	sarothrae	2.5	
					_				Linum rigidum		
07GY001	GY	F	32	2007	LINRIGR	LIRIR	0.5	40		4	07GC001- F16
070)(004	0)/	_	00	0007	DADIANA	DA 14		_	Paronychia		
07GY001	GY	F	32	2007	PARJAM	PAJA	0.5	5	jamesii	4	
070)/004	01/	_	20	0007	DOLTAG	DOTA	0.5		Psilostrophe	_	
07GY001	GY	F	32	2007	PSITAG	PSTA	0.5	6		4	
07GY001	GY	F	32	2007	QUEHAV	QUHA3	30	50	Quercus havardii	2	
076 1001	GT	Г	32	2007	QUENAV	QUNAS	30	50	Schizachyrium		
07GY001	GY	F	32	2007	SCHSCO	scsc	30	30	scoparium	3	
07 G 1001	Gi	1	32	2001	3011300	3030	30	30	Thelesperma	3	
07GY001	GY	F	32	2007	THEMEG	THME	1	66	megapotamicum	4	
0701001	O I	•	32	2001	TTILIVILO	TTHVIL		00	Xanthisma	<del>_</del>	
07GY001	GY	F	32	2007	XANSPI2	MAPI	0.1	15	spinulosum	4	
0.0.00.		•	- 52	200.	70 11 101 12	1177 11 1	0.1		Ambrosia		
07GY001	GY	F	42	2007	AMBPSI	AMPS	1	30	psilostachya	4	
									Bouteloua		
07GY001	GY	F	42	2007	BOUCUR	BOCU	0.5	20	curtipendula	3	
									Bouteloua		
07GY001	GY	F	42	2007	BOUHIR	BOHI2	5	12	hirsuta	3	
									Commelina		
07GY001	GY	F	42	2007	COMERE	COER	0.1	8		4	
									Eriogonum		
07GY001	GY	F	42	2007	ERIANN	ERAN4	0.1	37	annuum	4	
07GY001	GY	F	42	2007	LIAPUN	LIPU	3	35	Liatris punctata	4	
<b>_</b>									Paronychia		
07GY001	GY	F	42	2007	PARJAM	PAJA	0.5	8	jamesii	4	
07GY001	GY	F	42	2007	POMJAM	POJA5	0.5	12		4	
0=0\((0)	0.4	_				0.000			Quercus	_	
07GY001	GY	F	42	2007	QUEHAV	QUHA3	20	50	havardii	2	
070)(00:	0)/	_		000-	0011000	0000			Schizachyrium	_	
07GY001	GY	F	42	2007	SCHSCO	SCSC	35	25	scoparium	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Sporobolus		
07GY001	GY	F	42	2007	SPOCRY	SPCR	0.5	30	cryptandrus	3	
									Thelesperma		
07GY001	GY	F	42	2007	THEMEG	THME	1	90	megapotamicum	4	
									Ambrosia		
07GY001	GY	G	2	2007	AMBPSI	AMPS	0.1	8	psilostachya	4	
									Andropogon		
07GY001	GY	G	2	2007	ANDHAL	ANHA	20	45	hallii	3	
_		_							Aphanostephus		
07GY001	GY	G	2	2007	APHRAM	APRA	1.5	25	ramosissimus	4	
									Aristida		
			_				_		purpurea var.		
07GY001	GY	G	2	2007	ARIPURL	ARPUL	5	14	longiseta	3	
070)/00/	0)/				50110115	50011			Bouteloua		
07GY001	GY	G	2	2007	BOUCUR	BOCU	1	18	curtipendula	3	
070)/004	0)/			0007	DOLUUD.	DOLUG.	_	40	Bouteloua		
07GY001	GY	G	2	2007	BOUHIR	BOHI2	5	12	hirsuta	3	
070)/004	0)/			0007	CALCED	040540	40	0.4	Calylophus	_	0700004 E40
07GY001	GY	G	2	2007	CALSER	CASE12	10	24	serrulatus Commelina	4	07GC001- F19
07GY001	GY	G	2	2007	COMERE	COER	0.1	13	erecta	4	
0761001	Gi	G		2007	COMERE	COER	0.1	13	Digitaria	4	
07GY001	GY	G	2	2007	DIGPUB	DIPU9	4	22	pubiflora	3	
0/01001	01	0		2001	DIOI OD	Dii 03			Eragrostis	3	
07GY001	GY	G	2	2007	ERASEC	ERSE	5	25	secundiflora	3	07GC001- G10
0701001	01	0		2001	LIVAGEO	LIKOL	J	23	Erigeron	3	0700001 010
									bellidiastrum		
									var.		
07GY001	GY	G	2	2007	ERIBELB	ERBEB	0.5	15	bellidiastrum	4	07GR001- F3
									Eriogonum	_	
07GY001	GY	G	2	2007	ERIANN	ERAN4	1	74	annuum	4	
									Hymenopappus		
									flavescens var.		
07GY001	GY	G	2	2007	HYMFLAC	HYFLC	1	11	canotomentosus	4	07GC001- F7
									Linum rigidum		
07GY001	GY	G	2	2007	LINRIGR	LIRIR	2	50	var. rigidum	4	07GC001- F16
									Paspalum		
07GY001	GY	G	2	2007	PASSETS	PASES	2	18	setaceum var.	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			stramineum		
									Psilostrophe		
07GY001	GY	G	2	2007	PSITAG	PSTA	1.5	10	tagetina	4	
									Quercus		
07GY001	GY	G	2	2007	QUEHAV	QUHA3	20	35	havardii	2	
									Schizachyrium		
07GY001	GY	G	2	2007	SCHSCO	SCSC	10	30	scoparium	3	
									Sporobolus		
07GY001	GY	G	2	2007	SPOCRY	SPCR	2	16	cryptandrus	3	
									Thelesperma		
07GY001	GY	G	2	2007	THEMEG	THME	0.5	22	megapotamicum	4	
									Ambrosia		
07GY001	GY	G	12	2007	AMBPSI	AMPS	0.1	5	psilostachya	4	
									Aphanostephus		
07GY001	GY	G	12	2007	APHRAM	APRA	0.5	24	ramosissimus	4	
									Bouteloua		
07GY001	GY	G	12	2007	BOUCUR	BOCU	1	15	curtipendula	3	
									Bouteloua		
07GY001	GY	G	12	2007	BOUHIR	BOHI2	4	8	hirsuta	3	
									Commelina	_	
07GY001	GY	G	12	2007	COMERE	COER	0.5	25	erecta	4	
0-01/00/	0)/				0)/0055	0.05			Cyperus		
07GY001	GY	G	12	2007	CYPRET	CYRE14	0.1	20	retroflexus	3	07GC001- G14
070)/004	0)/		40	0007	ED 4 0 E 0	EDOE	_		Eragrostis		0700004 040
07GY001	GY	G	12	2007	ERASEC	ERSE	2	20	secundiflora	3	07GC001- G10
070\/004	GY	G	40	2007	EDIANN	ERAN4	0.4		Eriogonum		
07GY001	GY	G	12	2007	ERIANN	EKAN4	0.1	50	annuum Froelichia	4	
07GY001	GY	G	12	2007	FROGRA	FRGR3	0.5	45	gracilis	4	
0761001	Gī	G	12	2007	FROGRA	rkuks	0.5	45	Paspalum	4	
									setaceum var.		
07GY001	GY	G	12	2007	PASSETS	PASES	1	20	stramineum	3	
0701001	01	<u> </u>	12	2007	TAGGETG	1 AGEG	<b>!</b>	20	Quercus	<u> </u>	
07GY001	GY	G	12	2007	QUEHAV	QUHA3	8	30	havardii	2	
37 3 1 0 0 1			12	2001	QUEII/AV	Q011/10		- 50	Schizachyrium		
07GY001	GY	G	12	2007	SCHSCO	SCSC	40	30	scoparium	3	
3. 2.001					33300	, 3000		- 30	Sporobolus		
07GY001	GY	G	12	2007	SPOCRY	SPCR	0.1	25	cryptandrus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Thelesperma		
07GY001	GY	G	12	2007	THEMEG	THME	0.5	60	megapotamicum	4	
									Xanthisma		
07GY001	GY	G	12	2007	XANSPI2	MAPI	0.5	23	spinulosum	4	
									Bouteloua		
07GY001	GY	G	22	2007	BOUHIR	BOHI2	20	15	hirsuta	3	
									Calylophus		
07GY001	GY	G	22	2007	CALSER	CASE12	0.5	20	serrulatus	4	07GC001- F19
									Chaetopappa		
07GY001	GY	G	22	2007	CHAERI	CHER2	15	14	ericoides	4	
									Commelina		
07GY001	GY	G	22	2007	COMERE	COER	0.5	10	erecta	4	
									Cyperus		
07GY001	GY	G	22	2007	CYPRET	CYRE14	0.1	9	retroflexus	3	07GC001- G14
									Digitaria		
07GY001	GY	G	22	2007	DIGPUB	DIPU9	20	18	pubiflora	3	
									Paspalum		
									setaceum var.		
07GY001	GY	G	22	2007	PASSETS	PASES	1.5	15	stramineum	3	
									Plantago		
07GY001	GY	G	22	2007	PLAWRI4	PLWR	0.5	10	wrightiana	4	07GC001- F24
									Quercus		
07GY001	GY	G	22	2007	QUEHAV	QUHA3	25	35	havardii	2	
									Schizachyrium		
07GY001	GY	G	22	2007	SCHSCO	SCSC	25	25	scoparium	3	
									Ambrosia		
07GY001	GY	G	32	2007	AMBPSI	AMPS	0.1	25	psilostachya	4	
									Aphanostephus		
07GY001	GY	G	32	2007	APHRAM	APRA	3	15	ramosissimus	4	
									Aristida		
07GY001	GY	G	32	2007	ARIPUR	ARPU9	2	20	purpurea	3	
									Bouteloua		
07GY001	GY	G	32	2007	BOUCUR	BOCU	2	22	curtipendula	3	
									Bouteloua		
07GY001	GY	G	32	2007	BOUHIR	BOHI2	1	12	hirsuta	3	
									Chaetopappa		
07GY001	GY	G	32	2007	CHAERI	CHER2	4	11	ericoides	4	
07GY001	GY	G	32	2007	COMERE	COER	0.5	18	Commelina	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									erecta		
									Heterotheca		
07GY001	GY	G	32	2007	HETVIL	HEVI4	0.1	12	villosa	4	07GC001- F37
									Paspalum		
									setaceum var.		
07GY001	GY	G	32	2007	PASSETS	PASES	7	22	stramineum	3	
									Psilostrophe		
07GY001	GY	G	32	2007	PSITAG	PSTA	0.1	4	tagetina	4	
070)(004	0)/			0007	011511417	0111140		4-	Quercus		
07GY001	GY	G	32	2007	QUEHAV	QUHA3	50	45	havardii	2	
070\/004	CV		20	2007	0011000	0000	40	20	Schizachyrium		
07GY001	GY	G	32	2007	SCHSCO	SCSC	18	28	scoparium	3	
07GY001	GY	G	32	2007	SPOCRY	SPCR	4	15	Sporobolus	3	
0761001	GY	G	32	2007	SPUCKI	SPCR	1	15	cryptandrus Thelesperma	3	
07GY001	GY	G	32	2007	THEMEG	THME	0.1	40	megapotamicum	4	
0/31001	Gi	G	32	2007	TTILIVILG	I I IIVIL	0.1	40	Xanthisma	4	
07GY001	GY	G	32	2007	XANSPI2	MAPI	0.1	15	spinulosum	4	
0701001	01	J	52	2001	7/7/1101 12	IVI/AL I	0.1	10	Ambrosia		
07GY001	GY	G	42	2007	AMBPSI	AMPS	4	25	psilostachya	4	
									Aphanostephus		
07GY001	GY	G	42	2007	APHRAM	APRA	6	18	ramosissimus	4	
									Aristida		
07GY001	GY	G	42	2007	ARIPUR	ARPU9	5	18	purpurea	3	
									Bouteloua		
07GY001	GY	G	42	2007	BOUCUR	BOCU	5	15	curtipendula	3	
									Bouteloua		
07GY001	GY	G	42	2007	BOUHIR	BOHI2	5	10	hirsuta	3	
									Chenopodium		
07GY001	GY	G	42	2007	CHECYC	CHCY	0.1	68	cycloides	4	07GC001- F28
0=0\(0.6.)	0)(				05)(01)	0000			Cryptantha	_	
07GY001	GY	G	42	2007	CRYCIN	CRCI3	15	30	cinerea	4	
070)/004	0)/		40	0007	EDIANN	EDANIA	4.0	70	Eriogonum		
07GY001	GY	G	42	2007	ERIANN	ERAN4	10	70	annuum	4	
07GY001	GY	G	42	2007	GAUVIL	GAVI2	0.5	10	Gaura villosa	4	
									Hesperostipa		
07GY001	GY	G	42	2007	HESCOMC	HECOC8	2	25	comata ssp.	3	07GC001- G18
0/61001	J I	J	42	2007	HESCUIVIC	HECCO6			Comata	3	0766001-616

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Lithospermum		
07GY001	GY	G	42	2007	LITMUL	LIMU3	4	18	multiflorum	4	
									Munroa		
07GY001	GY	G	42	2007	MUNSQU	MUSQ3	20	10	squarrosa	3	
									Paspalum		
									setaceum var.		
07GY001	GY	G	42	2007	PASSETS	PASES	0.5	15	stramineum	3	
									Quercus		
07GY001	GY	G	42	2007	QUEHAV	QUHA3	30	40	havardii	2	
									Schizachyrium		
07GY001	GY	G	42	2007	SCHSCO	SCSC	5	25	scoparium	3	
		_							Sporobolus		
07GY001	GY	G	42	2007	SPOCRY	SPCR	1	18	cryptandrus	3	
	2.4						_		Xanthisma		
07GY001	GY	G	42	2007	XANSPI2	MAPI	1	25	spinulosum	4	
070)/004	0)/			0007	4445501	44400		4.0	Ambrosia		
07GY001	GY	Н	2	2007	AMBPSI	AMPS	0.1	18	psilostachya	4	
070)/004	0)/			0007	40110444	4004			Aphanostephus		
07GY001	GY	Н	2	2007	APHRAM	APRA	6	20	ramosissimus	4	
07GY001	GY	Н	2	2007	ARIPUR	ARPU9	30	20	Aristida	3	
0761001	GT	П		2007	ARIPUR	ARPU9	30	20	purpurea Bouteloua	3	
07GY001	GY	Н	2	2007	BOUHIR	BOHI2	7	12	hirsuta	3	
0761001	Gī	П		2007	воопік	БОПІХ	1	12	Calylophus	3	
07GY001	GY	Н	2	2007	CALSER	CASE12	1.5	23	serrulatus	4	07GC001- F19
0/01001	Gi	11		2001	CALGLIX	CAGLIZ	1.5		Cenchrus	4	0790001-119
07GY001	GY	Н	2	2007	CENSPI	CESP4	2	20	spinifex	3	
0701001	01	11		2001	OLIVOIT	OLOI 4			Chenopodium	3	
07GY001	GY	Н	2	2007	CHECYC	CHCY	0.1	35	cycloides	4	07GC001- F28
0.0.00	0.			200.	0.120.0	01101	011	- 00	Commelina		0.000020
07GY001	GY	Н	2	2007	COMERE	COER	2	35	erecta	4	
									Cycloloma	<u> </u>	
07GY001	GY	Н	2	2007	CYCATR	CYAT	1	17	atriplicifolium	4	
									Digitaria		
07GY001	GY	Н	2	2007	DIGPUB	DIPU9	2	22	pubiflora	3	
									Eragrostis		
07GY001	GY	Н	2	2007	ERASEC	ERSE	7	15	secundiflora	3	07GC001- G10
07GY001	GY	Н	2	2007	ERASES	ERSE2	1	15	Eragrostis	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									sessilispica		
07GY001	GY	Н	2	2007	ERIANN	ERAN4	0.5	83	Eriogonum annuum	4	
07GY001	GY	Н	2	2007	FROGRA	FRGR3	0.5	27	Froelichia gracilis	4	
07GY001	GY	Н	2	2007	LECMUC	LEMU3	0.1	18	Lechea mucronata	4	07GC001- F27
07GY001	GY	Н	2	2007	PARJAM	PAJA	0.5	11	Paronychia jamesii	4	
07GY001	GY	Н	2	2007	PASSETS	PASES	1	20	Paspalum setaceum var. stramineum	3	
07GY001	GY	Н	2	2007	PROGLA	PRGL2	50	125	Prosopis glandulosa	2	
07GY001	GY	Н	2	2007	QUEHAV	QUHA3	7	35	Quercus havardii	2	
07GY001	GY	Н	2	2007	SCHSCO	scsc	10	15	Schizachyrium scoparium	3	
07GY001	GY	Н	2	2007	XANSPI2	MAPI	1	25	Xanthisma spinulosum	4	
07GY001	GY	Н	12	2007	AMBPSI	AMPS	0.5	16	Ambrosia psilostachya	4	
07GY001	GY	Н	12	2007	BOUCUR	BOCU	0.5	14	Bouteloua curtipendula	3	
07GY001	GY	Н	12	2007	BOUHIR	BOHI2	4	12	Bouteloua hirsuta	3	
07GY001	GY	Н	12	2007	COMERE	COER	0.5	12	Commelina erecta	4	
07GY001	GY	Н	12	2007	DIGPUB	DIPU9	0.5	15	Digitaria pubiflora	3	
07GY001	GY	Н	12	2007	ERASEC	ERSE	3	14	Eragrostis secundiflora	3	07GC001- G10
07GY001	GY	Н	12	2007	ERIANN	ERAN4	0.5	45	Eriogonum annuum	4	
07GY001	GY	Н	12	2007	PARJAM	PAJA	0.5	8	Paronychia jamesii	4	
07GY001	GY	Н	12	2007	PLAWRI4	PLWR	1	10	Plantago wrightiana	4	07GC001- F24

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Psilostrophe		
07GY001	GY	Н	12	2007	PSITAG	PSTA	0.5	10	tagetina	4	
									Quercus		
07GY001	GY	Н	12	2007	QUEHAV	QUHA3	30	35	havardii	2	
									Schizachyrium		
07GY001	GY	Н	12	2007	SCHSCO	SCSC	30	25	scoparium	3	
									Sporobolus		
07GY001	GY	Н	12	2007	SPOCRY	SPCR	3	15	cryptandrus	3	
									Thelesperma	_	
07GY001	GY	Н	12	2007	THEMEG	THME	1	75	megapotamicum	4	
070)/004	0)/		-00	0007	44000	44400		0.5	Ambrosia		
07GY001	GY	Н	22	2007	AMBPSI	AMPS	0.5	25	psilostachya	4	
070)/004	0)/		00	0007	ANIDITAL	A B II I A	40	0.5	Andropogon		
07GY001	GY	Н	22	2007	ANDHAL	ANHA	10	35	hallii	3	
070\/001	CV	ы	22	2007	POLILID	DOLIO.	10	10	Bouteloua	2	
07GY001	GY	Н	22	2007	BOUHIR	BOHI2	10	10	hirsuta	3	
07GY001	GY	Н	22	2007	CHAFEN	CHFE3	2	8	Chamaesyce fendleri	4	
07 G 1001	Gi	11		2001	CHALLIN	GIII L3		0	Commelina	4	
07GY001	GY	Н	22	2007	COMERE	COER	0.5	20	erecta	4	
0701001	O I			2001	OOMERL	OOLIK	0.0	20	Evolvulus	<del>_</del>	
07GY001	GY	Н	22	2007	EVOSER	EVSE	0.5	8	sericeus	4	07GC001- F34
0.0.0.							0.0		Paspalum		0.000
									setaceum var.		
07GY001	GY	Н	22	2007	PASSETS	PASES	1	10	stramineum	3	
									Plantago		
07GY001	GY	Н	22	2007	PLAWRI4	PLWR	0.1	4	wrightiana	4	07GC001- F24
									Quercus		
07GY001	GY	Н	22	2007	QUEHAV	QUHA3	35	30	havardii	2	
									Schizachyrium		
07GY001	GY	Н	22	2007	SCHSCO	SCSC	20	22	scoparium	3	
									Sporobolus		
07GY001	GY	Н	22	2007	SPOCRY	SPCR	2	12	cryptandrus	3	
	0.4								Aphanostephus	_	
07GY001	GY	Н	32	2007	APHRAM	APRA	0.1	20	ramosissimus	4	
070\/004	0)/			0007	DOLLO: ID	DOOL			Bouteloua	_	
07GY001	GY	H	32	2007	BOUCUR	BOCU	3	15	curtipendula	3	
07GY001	GY	Н	32	2007	BOUHIR	BOHI2	2	10	Bouteloua	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									hirsuta		
									Calylophus		
07GY001	GY	Н	32	2007	CALSER	CASE12	0.5	25	serrulatus	4	07GC001- F19
									Chamaesyce		
07GY001	GY	Н	32	2007	CHAGLY	CHGL13	0.1	4	glyptosperma	4	07GC001- F14
									Cycloloma		
07GY001	GY	Н	32	2007	CYCATR	CYAT	0.1	12	atriplicifolium	4	
0700004	01/		20	0007	OVERET	OVDE44	0.4	4.5	Cyperus		0700004 044
07GY001	GY	Н	32	2007	CYPRET	CYRE14	0.1	15	retroflexus Digitaria	3	07GC001- G14
07GY001	GY	Н	32	2007	DIGPUB	DIPU9	3	20	pubiflora	3	
0761001	Gi	11	32	2007	DIGFUB	DIFUS	3	20	Eragrostis	3	
07GY001	GY	Н	32	2007	ERASEC	ERSE	2	20	secundiflora	3	07GC001- G10
07GY001	GY	Н	32	2007	LIAPUN	LIPU	0.5	35	Liatris punctata	4	0700007 010
0701001	01		02	2001	Li/ (i Oi v	LII O	0.0	- 00	Paronychia		
07GY001	GY	Н	32	2007	PARJAM	PAJA	2	17	jamesii	4	
									Paspalum		
									setaceum var.		
07GY001	GY	Н	32	2007	PASSETS	PASES	1	15	stramineum	3	
									Quercus		
07GY001	GY	Н	32	2007	QUEHAV	QUHA3	30	35	havardii	2	
									Schizachyrium		
07GY001	GY	Н	32	2007	SCHSCO	SCSC	32	25	scoparium	3	
2201/224	0),				\/4.\\@B\@				Xanthisma		
07GY001	GY	Н	32	2007	XANSPI2	MAPI	0.1	25	spinulosum	4	
07GY001	GY	Н	42	2007	ANDHAL	ANHA	3	45	Andropogon hallii	3	
0/61001	GT	П	42	2007	ANDHAL	AINHA	3	45	Aphanostephus	3	
07GY001	GY	Н	42	2007	APHRAM	APRA	0.5	10	ramosissimus	4	
0/01001	01	11	72	2001	ALTIKAW	ΛΙΙΛ	0.5	10	Bouteloua	<del>_</del>	
07GY001	GY	Н	42	2007	BOUHIR	BOHI2	15	15	hirsuta	3	
3. 3 1001			12		200	301112			Calylophus		
07GY001	GY	Н	42	2007	CALSER	CASE12	1	18	serrulatus	4	07GC001- F19
						-			Chamaesyce		
07GY001	GY	Н	42	2007	CHAGLY	CHGL13	0.1	5	glyptosperma	4	07GC001- F14
									Commelina		
07GY001	GY	Н	42	2007	COMERE	COER	1	15	erecta	4	
07GY001	GY	Н	42	2007	CRYCIN	CRCI3	0.1	1	Cryptantha	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									cinerea		
									Eragrostis		
07GY001	GY	Н	42	2007	ERASEC	ERSE	2	14	secundiflora	3	07GC001- G10
									Heterotheca		
07GY001	GY	Н	42	2007	HETSUB	HESU3	0.5	10	subaxillaris	4	
									Linum rigidum		
07GY001	GY	Н	42	2007	LINRIGR	LIRIR	0.5	26	var. rigidum	4	07GC001- F16
									Paronychia		
07GY001	GY	Н	42	2007	PARJAM	PAJA	0.1	2	· ·	4	
									Paspalum		
									setaceum var.		
07GY001	GY	Н	42	2007	PASSETS	PASES	2	16	stramineum	3	
<b>_</b>									Plantago		
07GY001	GY	Н	42	2007	PLAWRI4	PLWR	0.1	12	wrightiana	4	07GC001- F24
									Quercus		
07GY001	GY	Н	42	2007	QUEHAV	QUHA3	20	35	havardii	2	
0=0\(100.4	0.4				0011000	0000			Schizachyrium		
07GY001	GY	Н	42	2007	SCHSCO	SCSC	20	20	scoparium	3	
070)/004	0)/		40	0007	THEMES	TUNAT	0.5	40	Thelesperma		
07GY001	GY	Н	42	2007	THEMEG	THME	0.5	16	megapotamicum	4	
07GC001	GC	Α	_	2009	AMBPSI	AMPS	0.1	30	Ambrosia	4	
076001	GC	A	2	2009	AIVIDPSI	AIVIPS	0.1	30	psilostachya Aristida	4	
07GC001	GC	Α	2	2009	ARIPUR	ARPU9	1	18	purpurea	3	
07 GC001	GC			2009	AIXIFUIX	AINFOS	<u> </u>	10	Asclepias	3	
07GC001	GC	Α	2	2009	ASCVIR	ASVI	0.1	20	viridiflora	4	
070001	00	Α		2003	AGOVIIC	AOVI	0.1	20	Bouteloua		
07GC001	GC	Α	2	2009	BOUHIR	BOHI2	2	10	hirsuta	3	
0.000.		, ,			2001				Cenchrus		
07GC001	GC	Α	2	2009	CENSPI	CESP4	12	10	spinifex	3	
									Digitaria		
07GC001	GC	Α	2	2009	DIGPUB	DIPU9	2	12		3	
07GC001	GC	Α	2	2009	MIRLIN	MILI3	0.1	12	Mirabilis linearis	4	
									Quercus		read quads
07GC001	GC	Α	2	2009	QUEHAV	QUHA3	28	40	havardii	2	toward west
									Schizachyrium		
07GC001	GC	Α	2	2009	SCHSCO	SCSC	15	20	scoparium	3	
07GC001	GC	Α	2	2009	SPOCRY	SPCR	2	30	Sporobolus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									cryptandrus		
07GC001	GC	Α	12	2009	ANDHAL	ANHA	25	40	Andropogon hallii	3	
07GC001	GC	Α	12	2009	ARIPUR	ARPU9	3	25	Aristida purpurea	3	
07GC001	GC	Α	12	2009	CALSER	CASE12	0.5	16	Calylophus serrulatus	4	
07GC001	GC	Α	12	2009	CENSPI	CESP4	3	8	Cenchrus spinifex	3	
07GC001	GC	Α	12	2009	COMERE	COER	0.1	8	Commelina erecta	4	
07GC001	GC	Α	12	2009	CRYCIN	CRCI3	0.1	8	Cryptantha cinerea	4	
07GC001	GC	Α	12	2009	CYPRET	CYRE14	0.5	12	Cyperus retroflexus	3	
07GC001	GC	Α	12	2009	DIGPUB	DIPU9	2	17	Digitaria pubiflora	3	
07GC001	GC	A	12	2009	PASSETS	PASES	1	10	Paspalum setaceum var. stramineum	3	
07GC001	GC	A	12	2009	QUEHAV	QUHA3	7	50	Quercus havardii	2	
07GC001	GC	Α	12	2009	SCHSCO	SCSC	2	15	Schizachyrium scoparium	3	
07GC001	GC	Α	12	2009	SPOCRY	SPCR	3	25	Sporobolus cryptandrus	3	
07GC001	GC	Α	22	2009	ANDHAL	ANHA	8	40	Andropogon hallii	3	
07GC001	GC	Α	22	2009	QUEHAV	QUHA3	8	35	Quercus havardii	2	
07GC001	GC	Α	22	2009	SCHSCO	SCSC	12	25	Schizachyrium scoparium	3	
07GC001	GC	Α	22	2009	SPOCRY	SPCR	2	35	Sporobolus cryptandrus	3	
07GC001	GC	Α	32	2009	ANDHAL	ANHA	1	35	Andropogon hallii	3	
07GC001	GC	Α	32	2009	ARIPUR	ARPU9	3	20	Aristida purpurea	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			Bouteloua		
07GC001	GC	Α	32	2009	BOUHIR	BOHI2	2	15	hirsuta	3	
									Digitaria		
07GC001	GC	Α	32	2009	DIGPUB	DIPU9	1	15	pubiflora	3	
									Eragrostis		
07GC001	GC	Α	32	2009	ERASEC	ERSE	1	16	secundiflora	3	
									Paronychia		
07GC001	GC	Α	32	2009	PARJAM	PAJA	0.5	6	jamesii	4	
									Paspalum		
									setaceum var.		
07GC001	GC	Α	32	2009	PASSETS	PASES	3	12	stramineum	3	
		_							Quercus	_	
07GC001	GC	Α	32	2009	QUEHAV	QUHA3	30	45	havardii	2	
.=					0011000	0000			Schizachyrium		
07GC001	GC	Α	32	2009	SCHSCO	SCSC	14	24	scoparium	3	
0700004	00		00	0000	OFNODA	05000	_	0.7	Senecio		
07GC001	GC	Α	32	2009	SENSPA	SESP3	1	37	spartioides	4	
0700004	00		20	0000	CDCCDV	CDCD	_	20	Sporobolus		
07GC001	GC	Α	32	2009	SPOCRY	SPCR	3	30	cryptandrus	3	
07GC001	GC	Α	42	2009	CYPRET	CYRE14	0.1	7	Cyperus retroflexus	3	
076001	GC	A	42	2009	CIFKEI	CTRE14	0.1	,	Paronychia	3	
07GC001	GC	Α	42	2009	PARJAM	PAJA	0.1	4	jamesii	4	
070001	00		72	2003	1 AINDAIN	1 707	0.1		Paspalum	<b>-</b>	
									setaceum var.		
07GC001	GC	Α	42	2009	PASSETS	PASES	1	12	stramineum	3	
070001	- 50			2000	17.00210	171020		12	Quercus		
07GC001	GC	Α	42	2009	QUEHAV	QUHA3	52	45	havardii	2	
									Schizachyrium		
07GC001	GC	Α	42	2009	SCHSCO	SCSC	8	20	scoparium	3	
									Sporobolus		
07GC001	GC	Α	42	2009	SPOCRY	SPCR	5	40	cryptandrus	3	
									Aristida		
07GC001	GC	В	2	2009	ARIPUR	ARPU9	7	15	purpurea	3	
									Bouteloua		
07GC001	GC	В	2	2009	BOUHIR	BOHI2	3	12	hirsuta	3	
									Cylindropuntia		
07GC001	GC	В	2	2009	CYLIMB	OPIM	0.1	10	imbricata	2	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GC001	GC	В	2	2009	PASSETS	PASES	1	12	stramineum	3	
									Quercus		read quads
07GC001	GC	В	2	2009	QUEHAV	QUHA3	22	30	havardii	2	toward west
									Schizachyrium		
07GC001	GC	В	2	2009	SCHSCO	SCSC	11	25	scoparium	3	
									Aristida		
07GC001	GC	В	12	2009	ARIPUR	ARPU9	4	25	purpurea	3	
									Bouteloua		
07GC001	GC	В	12	2009	BOUCUR	BOCU	3	20	curtipendula	3	
									Bouteloua		
07GC001	GC	В	12	2009	BOUHIR	BOHI2	1	10	hirsuta	3	
									Evolvulus		
07GC001	GC	В	12	2009	EVOSER	EVSE	0.1	15	sericeus	4	
									Paspalum		
									setaceum var.		
07GC001	GC	В	12	2009	PASSETS	PASES	1	10	stramineum	3	
									Quercus		
07GC001	GC	В	12	2009	QUEHAV	QUHA3	15	20	havardii	2	
									Schizachyrium		
07GC001	GC	В	12	2009	SCHSCO	SCSC	20	25	scoparium	3	
									Sporobolus		
07GC001	GC	В	12	2009	SPOCRY	SPCR	2	30	cryptandrus	3	
									Bouteloua		
07GC001	GC	В	22	2009	BOUCUR	BOCU	6	18	curtipendula	3	
									Calylophus		
07GC001	GC	В	22	2009	CALSER	CASE12	2	24	serrulatus	4	
									Evolvulus		
07GC001	GC	В	22	2009	EVOSER	EVSE	1	12	sericeus	4	
		_							Quercus		
07GC001	GC	В	22	2009	QUEHAV	QUHA3	23	25	havardii	2	
		_							Schizachyrium		
07GC001	GC	В	22	2009	SCHSCO	SCSC	36	20	scoparium	3	
									Sporobolus		
07GC001	GC	В	22	2009	SPOCRY	SPCR	1	15	cryptandrus	3	
									Aristida		
07GC001	GC	В	32	2009	ARIPUR	ARPU9	3	25	purpurea	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			Bouteloua		
07GC001	GC	В	32	2009	BOUHIR	BOHI2	3	8	hirsuta	3	
									Paspalum		
									setaceum var.		
07GC001	GC	В	32	2009	PASSETS	PASES	1	7	stramineum	3	
									Quercus		
07GC001	GC	В	32	2009	QUEHAV	QUHA3	38	35	havardii	2	
									Schizachyrium		
07GC001	GC	В	32	2009	SCHSCO	SCSC	3	25	scoparium	3	
									Sporobolus		
07GC001	GC	В	32	2009	SPOCRY	SPCR	1	40	cryptandrus	3	
									Aristida		
07GC001	GC	В	42	2009	ARIPUR	ARPU9	2	25	purpurea	3	
									Bouteloua		
07GC001	GC	В	42	2009	BOUHIR	BOHI2	1	7	hirsuta	3	
									Calylophus		
07GC001	GC	В	42	2009	CALSER	CASE12	1	18	serrulatus	4	
									Cryptantha		
07GC001	GC	В	42	2009	CRYCIN	CRCI3	0.1	12	cinerea	4	
<b>_</b>		_							Evolvulus		
07GC001	GC	В	42	2009	EVOSER	EVSE	0.5	15	sericeus	4	
									Helianthus		
.=		_							petiolaris ssp.		
07GC001	GC	В	42	2009	HELPETP	HEPEP	0.1	10	·	4	07GC001- F12
									Paspalum		
0700004	GC	В	40	2000	DACCETC	DACEC	_	4.5	setaceum var.		
07GC001	GC	В	42	2009	PASSETS	PASES	3	15	stramineum Quercus	3	
07GC001	GC	В	42	2009	QUEHAV	QUHA3	8	25	havardii	2	
07 GC001	GC	Ь	42	2009	QUELIAV	QUIIAS	0	23	Schizachyrium		
07GC001	GC	В	42	2009	SCHSCO	SCSC	23	25	scoparium	3	
070001	00		74	2003	0011000	0000	23	23	Sporobolus	3	
07GC001	GC	В	42	2009	SPOCRY	SPCR	1	20	cryptandrus	3	
070001			72	2000	0. 00.01	O. O.	-		Bouteloua	3	
07GC001	GC	С	2	2009	BOUCUR	BOCU	0.1	6	curtipendula	3	
3. 2 3 3 3 1		_					0		Bouteloua		
07GC001	GC	С	2	2009	BOUHIR	BOHI2	1	6	hirsuta	3	
07GC001	GC	C	2	2009	CALSER	CASE12	1	20	Calylophus	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									serrulatus		
									Commelina		
07GC001	GC	С	2	2009	COMERE	COER	0.1	8	erecta	4	
									Cyperus		
07GC001	GC	С	2	2009	CYPRET	CYRE14	1	15	retroflexus	3	
									Gutierrezia		
07GC001	GC	С	2	2009	GUTSAR	GUSA2	4	30	sarothrae	2.5	
									Paspalum		
									setaceum var.		
07GC001	GC	С	2	2009	PASSETS	PASES	5	15	stramineum	3	
07GC001	GC	С	2	2009	POMJAM	POJA5	1	12	Pomaria jamesii	4	
									Quercus		read quads
07GC001	GC	С	2	2009	QUEHAV	QUHA3	13	33	havardii	2	toward west
									Schizachyrium		
07GC001	GC	С	2	2009	SCHSCO	SCSC	15	20	scoparium	3	
									Xanthisma		
07GC001	GC	С	2	2009	XANSPI2	MAPI	0.1	12	spinulosum	4	
		_			_	_			Ambrosia		
07GC001	GC	С	12	2009	AMBPSI	AMPS	0.5	20	psilostachya	4	
							_		Andropogon	_	
07GC001	GC	С	12	2009	ANDHAL	ANHA	8	30	hallii	3	
0700001			4.0	0000	50111115	DOLUG		4.0	Bouteloua		
07GC001	GC	С	12	2009	BOUHIR	BOHI2	0.5	10	hirsuta	3	
0700004	00		40	0000	041.055	040540	_	4-	Calylophus		
07GC001	GC	С	12	2009	CALSER	CASE12	2	15	serrulatus	4	
07GC001	GC	С	12	2000	CRYCIN	CRCI3	0.5	20	Cryptantha		
07GC001	GC	C	12	2009	CRICIN	CRUIS	0.5	20	cinerea Eragrostis	4	
07GC001	GC	С	12	2009	ERASEC	ERSE	1	17	secundiflora	3	
076001	GC	C	12	2009	ENASEC	ENSE	I	17	Melampodium	3	
07GC001	GC	С	12	2009	MELLEU	MELE2	4	14	leucanthum	4	
07 00001	- 30		14	2009	IVILLLLU	IVILLL		14	Paronychia	4	
07GC001	GC	С	12	2009	PARJAM	PAJA	0.5	5	jamesii	4	
0,0001			12	2000	1 / 11 (0) (10)	1,10,1	0.0	- 3	Paspalum		
									setaceum var.		
07GC001	GC	С	12	2009	PASSETS	PASES	2	15	stramineum	3	
		_	· <u>-</u>			112=3			Quercus		
07GC001	GC	С	12	2009	QUEHAV	QUHA3	2	60	havardii	2	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Schizachyrium		
07GC001	GC	С	12	2009	SCHSCO	SCSC	9	20	scoparium	3	
									Sporobolus		
07GC001	GC	С	12	2009	SPOCRY	SPCR	0.1	20	cryptandrus	3	
									Thelesperma		
07GC001	GC	С	12	2009	THEMEG	THME	0.1	47	megapotamicum	4	
									Andropogon		
07GC001	GC	С	22	2009	ANDHAL	ANHA	1	40	hallii	3	
									Aristida		
07GC001	GC	С	22	2009	ARIPUR	ARPU9	1	20	purpurea	3	
									Cyperus		
07GC001	GC	С	22	2009	CYPRET	CYRE14	0.1	20	retroflexus	3	
									Paspalum		
									setaceum var.		
07GC001	GC	С	22	2009	PASSETS	PASES	0.5	10	stramineum	3	
									Quercus		
07GC001	GC	С	22	2009	QUEHAV	QUHA3	16	40	havardii	2	
									Schizachyrium		
07GC001	GC	С	22	2009	SCHSCO	SCSC	16	25	scoparium	3	
									Sporobolus		
07GC001	GC	С	22	2009	SPOCRY	SPCR	1	20	cryptandrus	3	
									Xanthisma		
07GC001	GC	С	22	2009	XANSPI2	MAPI	0.5	22	spinulosum	4	
									Andropogon		
07GC001	GC	С	32	2009	ANDHAL	ANHA	3	50	hallii	3	
									Calylophus		
07GC001	GC	С	32	2009	CALSER	CASE12	0.5	20	serrulatus	4	
									Commelina		
07GC001	GC	С	32	2009	COMERE	COER	0.5	17	erecta	4	
									Lithospermum		
07GC001	GC	С	32	2009	LITMUL	LIMU3	0.5	15	multiflorum	4	
											change MIRGLA
07GC001	GC	С	32	2009	MIRLIN	MILI3	0.5	75	Mirabilis linearis	4	to MIRLIN-YC
									Quercus		
07GC001	GC	С	32	2009	QUEHAV	QUHA3	12	40	havardii	2	
									Schizachyrium		
07GC001	GC	С	32	2009	SCHSCO	SCSC	15	25	scoparium	3	
07GC001	GC	С	32	2009	SPOCRY	SPCR	2	20	Sporobolus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									cryptandrus		
									Xanthisma		
07GC001	GC	С	32	2009	XANSPI2	MAPI	1	15	spinulosum	4	
07GC001	GC	С	32	2009	YUCGLA	YUGL	15	60	Yucca glauca	2	
									Ambrosia		
07GC001	GC	С	42	2009	AMBPSI	AMPS	0.5	18	psilostachya	4	
									Andropogon		
07GC001	GC	С	42	2009	ANDHAL	ANHA	3	35	hallii	3	
									Bouteloua		
07GC001	GC	С	42	2009	BOUHIR	BOHI2	2	7	hirsuta	3	
									Heterotheca		
07GC001	GC	С	42	2009	HETVIL	HEVI4	2	20	villosa	4	
									Paspalum		
									setaceum var.		
07GC001	GC	С	42	2009	PASSETS	PASES	2	15	stramineum	3	
		_							Quercus		
07GC001	GC	С	42	2009	QUEHAV	QUHA3	33	45	havardii	2	
<b></b>									Schizachyrium	_	
07GC001	GC	С	42	2009	SCHSCO	SCSC	0.5	20	scoparium	3	
<b></b>									Sporobolus	_	
07GC001	GC	С	42	2009	SPOCRY	SPCR	1	30	cryptandrus	3	
.=						T. 13.45			Thelesperma		
07GC001	GC	С	42	2009	THEMEG	THME	0.5	50	megapotamicum	4	
270001			40	0000	VANIODIO	MADI			Xanthisma		
07GC001	GC	С	42	2009	XANSPI2	MAPI	0.1	20	spinulosum	4	
0700004	00	D		2000	AMDDOL	AMDC	0.4	25	Ambrosia		
07GC001	GC	ט	2	2009	AMBPSI	AMPS	0.1	25	psilostachya Bouteloua	4	
07GC001	GC	D	2	2009	BOUHIR	BOHI2	4	12	hirsuta	3	
07GC001	GC	D	2	2009	DALPUR	DAPU5	0.1	5		4	
076001	GC	U		2009	DALFUR	DAFUS	0.1	ິ	Dalea purpurea Eragrostis	4	
07GC001	GC	D	2	2009	ERASEC	ERSE	2	20	secundiflora	3	
076001	GC	U		2009	LINAGEO	LINGE		20	Paronychia	3	
07GC001	GC	D	2	2009	PARJAM	PAJA	0.5	4	jamesii	4	
07 00001	- 30	<u>ر</u>		2009	I VIVAVIA	1 707	0.5	-	Paspalum	4	
									setaceum var.		
07GC001	GC	D	2	2009	PASSETS	PASES	1	8	stramineum	3	
07GC001	GC	D	2	2009	QUEHAV	QUHA3	17	45	Quercus	2	read quads

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									havardii		toward west
									Schizachyrium		
07GC001	GC	D	2	2009	SCHSCO	SCSC	27	30	scoparium	3	
									Sporobolus		
07GC001	GC	D	2	2009	SPOCRY	SPCR	2	30	cryptandrus	3	
									Ambrosia		
07GC001	GC	D	12	2009	AMBPSI	AMPS	0.5	27	psilostachya	4	
									Andropogon		
07GC001	GC	D	12	2009	ANDHAL	ANHA	6	55	hallii	3	
									Aristida		
07GC001	GC	D	12	2009	ARIPUR	ARPU9	0.5	15	purpurea	3	
<b>_</b>		_							Bouteloua	_	
07GC001	GC	D	12	2009	BOUHIR	BOHI2	0.5	10	hirsuta	3	
.=					041.055	0.05.0			Calylophus		
07GC001	GC	D	12	2009	CALSER	CASE12	0.5	13	serrulatus	4	
.=					0014555	2055			Commelina		
07GC001	GC	D	12	2009	COMERE	COER	1	17	erecta	4	
0700004	00	_	4.0	0000	ED 4 0 E 0	EDOE	_		Eragrostis		
07GC001	GC	D	12	2009	ERASEC	ERSE	5	20	secundiflora	3	
07GC001	GC	D	12	2009	HETVIL	HEVI4	0.5	23	Heterotheca villosa		
076001	GC	U	12	2009	∏E I VIL	ΠΕVI4	0.5	23	Lithospermum	4	
07GC001	GC	D	12	2009	LITMUL	LIMU3	0.5	14	multiflorum	4	
076001	GC	U	12	2009	LITIVIOL	LIMOS	0.5	14	Paronychia	4	
07GC001	GC	D	12	2009	PARJAM	PAJA	0.5	5	jamesii	4	
070001	00		12	2003	1 AIXOAW	I AOA	0.0	- 0	Quercus		
07GC001	GC	D	12	2009	QUEHAV	QUHA3	15	25	havardii	2	
3. 55001	50	_			Q02.77	30.00			Schizachyrium		
07GC001	GC	D	12	2009	SCHSCO	SCSC	20	25	scoparium	3	
, , , , , , , , , , , , , , , , , , ,		_	·-		3211300				Xanthisma		
07GC001	GC	D	12	2009	XANSPI2	MAPI	0.1	20	spinulosum	4	
									Andropogon		
07GC001	GC	D	22	2009	ANDHAL	ANHA	2	45	hallii	3	
									Bouteloua		
07GC001	GC	D	22	2009	BOUHIR	BOHI2	3	10	hirsuta	3	
									Commelina		
07GC001	GC	D	22	2009	COMERE	COER	1	8	erecta	4	
07GC001	GC	D	22	2009	CYPRET	CYRE14	0.5	14	Cyperus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			retroflexus		
07GC001	GC	D	22	2009	DALNANN	DANAN	0.5	9	Dalea nana var. nana	4	
07GC001	GC	D	22	2009	ERASEC	ERSE	1	10	Eragrostis secundiflora	3	
07GC001	GC	D	22	2009	PARJAM	PAJA	2	8	Paronychia jamesii	4	
07GC001	GC	D	22	2009	PASSETS	PASES	5	10	Paspalum setaceum var. stramineum	3	
07GC001	GC	D	22	2009	PENSTE	PENST	0.1	5	Penstemon spp.	4	07GC001- F42,vegetative
07GC001	GC	D	22	2009	QUEHAV	QUHA3	14	40	Quercus havardii	2	
07GC001	GC	D	22	2009	SCHSCO	SCSC	22	25	Schizachyrium scoparium	3	
07GC001	GC	D	22	2009	SPOCRY	SPCR	1	20	Sporobolus cryptandrus	3	
07GC001	GC	D	32	2009	AMBPSI	AMPS	0.5	30	Ambrosia psilostachya	4	
07GC001	GC	D	32	2009	ANDHAL	ANHA	2	33	Andropogon hallii	3	
07GC001	GC	D	32	2009	COMERE	COER	0.5	5	Commelina erecta	4	
07GC001	GC	D	32	2009	PASSETS	PASES	1	10	Paspalum setaceum var. stramineum	3	
07GC001	GC	D	32	2009	QUEHAV	QUHA3	30	35	Quercus havardii	2	
07GC001	GC	D	32	2009	SCHSCO	SCSC	7	25	Schizachyrium scoparium	3	
07GC001	GC	D	32	2009	SPOCRY	SPCR	0.1	30	Sporobolus cryptandrus	3	
07GC001	GC	D	42	2009	AMBPSI	AMPS	0.1	40	Ambrosia psilostachya	4	
07GC001	GC	D	42	2009	ANDHAL	ANHA	3	50	Andropogon hallii	3	
07GC001	GC	D	42	2009	COMERE	COER	0.1	5	Commelina	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									erecta		
									Digitaria		
07GC001	GC	D	42	2009	DIGPUB	DIPU9	0.1	6	pubiflora	3	
									Paspalum		
									setaceum var.		
07GC001	GC	D	42	2009	PASSETS	PASES	1	8	stramineum	3	
07GC001	GC	D	42	2009	PENSTE	PENST	0.5	7	Penstemon spp.	4	07GC001-F42
									Quercus		
07GC001	GC	D	42	2009	QUEHAV	QUHA3	14	30	havardii	2	
									Schizachyrium		
07GC001	GC	D	42	2009	SCHSCO	SCSC	18	25	scoparium	3	
									Aristida		
07GC001	GC	E	2	2009	ARIPUR	ARPU9	3	20	purpurea	3	
									Bouteloua		
07GC001	GC	E	2	2009	BOUHIR	BOHI2	2	10	hirsuta	3	
									Calylophus		
07GC001	GC	E	2	2009	CALSER	CASE12	0.1	15	serrulatus	4	
									Cenchrus		
07GC001	GC	E	2	2009	CENSPI	CESP4	0.5	8	spinifex	3	
									Digitaria		
07GC001	GC	E	2	2009	DIGPUB	DIPU9	5	15	pubiflora	3	
									Gutierrezia		
07GC001	GC	E	2	2009	GUTSAR	GUSA2	4	35	sarothrae	2.5	
									Paspalum		
		_						_	setaceum var.	_	
07GC001	GC	E	2	2009	PASSETS	PASES	1	6	stramineum	3	
									Quercus		read quads
07GC001	GC	Е	2	2009	QUEHAV	QUHA3	24	40	havardii	2	toward west
									Schizachyrium		
07GC001	GC	E	2	2009	SCHSCO	SCSC	7	20	scoparium	3	
		_							Sporobolus		
07GC001	GC	Е	2	2009	SPOCRY	SPCR	1	25	cryptandrus	3	
		_							Aristida		
07GC001	GC	Е	12	2009	ARIPUR	ARPU9	3	25	purpurea	3	
		_							Bouteloua		
07GC001	GC	Е	12	2009	BOUHIR	BOHI2	2	10	hirsuta	3	
		_							Cenchrus		
07GC001	GC	E	12	2009	CENSPI	CESP4	1	10	spinifex	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Chamaesyce		
07GC001	GC	E	12	2009	CHAGLY	CHGL13	0.1	2	glyptosperma	4	
									Digitaria		
07GC001	GC	E	12	2009	DIGPUB	DIPU9	1	15	pubiflora	3	
									Froelichia		
07GC001	GC	E	12	2009	FROGRA	FRGR3	0.1	20	gracilis	4	
									Munroa		
07GC001	GC	E	12	2009	MUNSQU	MUSQ3	0.5	3	squarrosa	3	
									Paspalum		
									setaceum var.		
07GC001	GC	E	12	2009	PASSETS	PASES	5	15	stramineum	3	
									Quercus		
07GC001	GC	E	12	2009	QUEHAV	QUHA3	17	40	havardii	2	
									Sporobolus		
07GC001	GC	E	12	2009	SPOCRY	SPCR	2	20	cryptandrus	3	
									Bouteloua		
07GC001	GC	E	22	2009	BOUHIR	BOHI2	4	10	hirsuta	3	
									Calylophus		
07GC001	GC	E	22	2009	CALSER	CASE12	0.5	15	serrulatus	4	
									Lithospermum		
07GC001	GC	E	22	2009	LITMUL	LIMU3	0.1	15	multiflorum	4	
									Paspalum		
									setaceum var.		
07GC001	GC	E	22	2009	PASSETS	PASES	1	7	stramineum	3	
									Quercus		
07GC001	GC	E	22	2009	QUEHAV	QUHA3	15	35	havardii	2	
									Schizachyrium		
07GC001	GC	E	22	2009	SCHSCO	SCSC	18	30	scoparium	3	
									Sporobolus		
07GC001	GC	E	22	2009	SPOCRY	SPCR	3	20	cryptandrus	3	
									Bouteloua		
07GC001	GC	E	32	2009	BOUCUR	BOCU	1	12	curtipendula	3	
									Bouteloua		
07GC001	GC	E	32	2009	BOUHIR	BOHI2	6	8	hirsuta	3	
									Paspalum		
									setaceum var.		
07GC001	GC	E	32	2009	PASSETS	PASES	1	10	stramineum	3	
07GC001	GC	E	32	2009	PHYGOR	LEGO	0.1	4	Physaria	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									gordonii		
									Quercus		
07GC001	GC	E	32	2009	QUEHAV	QUHA3	15	25	havardii	2	
									Schizachyrium		
07GC001	GC	E	32	2009	SCHSCO	SCSC	19	30	scoparium	3	
									Sporobolus		
07GC001	GC	E	32	2009	SPOCRY	SPCR	1	15	cryptandrus	3	
									Andropogon		
07GC001	GC	E	42	2009	ANDHAL	ANHA	3	32	hallii	3	
									Aristida		
07GC001	GC	E	42	2009	ARIPUR	ARPU9	7	25	purpurea	3	
									Cyperus		
07GC001	GC	E	42	2009	CYPRET	CYRE14	0.1	17	retroflexus	3	
									Paspalum		
									setaceum var.		
07GC001	GC	Е	42	2009	PASSETS	PASES	1	8	stramineum	3	
									Quercus		
07GC001	GC	E	42	2009	QUEHAV	QUHA3	6	25	havardii	2	
		_							Schizachyrium		
07GC001	GC	Е	42	2009	SCHSCO	SCSC	23	28	scoparium	3	
<b>_</b>		_							Sporobolus		
07GC001	GC	Е	42	2009	SPOCRY	SPCR	1	16	cryptandrus	3	
.=		_			50110115	50011			Bouteloua		
07GC001	GC	F	2	2009	BOUCUR	BOCU	1	14	curtipendula	3	
0700004	00	_		0000	DOLUUD.	DOLUG	_	40	Bouteloua		
07GC001	GC	F	2	2009	BOUHIR	BOHI2	5	12	hirsuta	3	
0700004	00	_		0000	CALCED	040540	0.5	00	Calylophus	4	
07GC001	GC	F	2	2009	CALSER	CASE12	0.5	20	serrulatus	4	
070004	GC	F	2	2000	CLITCAD	CHEAG	0	20	Gutierrezia	2.5	
07GC001	GC	Г	2	2009	GUTSAR	GUSA2	8	20	sarothrae	2.5	
0700001	GC	F	2	2000	1 17841 !!	LIMU3	0.1	12	Lithospermum multiflorum		
07GC001	GC	Γ	2	2009	LITMUL	LIIVIUS	0.1	12		4	
									Paspalum setaceum var.		
07GC001	GC	F	2	2009	PASSETS	PASES	4	10	stramineum	3	
07 GC001		I		2009	IAGGETS	I AGEG	4	10	Quercus	3	read quads
07GC001	GC	F	2	2009	QUEHAV	QUHA3	2	22	havardii	2	toward west
07GC001	GC	F	2	2009	SCHSCO	SCSC	38	20	Schizachyrium	3	toward west
07 00001	Ju	F		2009	301300	3030		20	Scriizacriyriuiii		

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									scoparium		
07GC001	GC	F	12	2009	ANDHAL	ANHA	2	35	Andropogon hallii	3	
07GC001	GC	F	12	2009	BOUHIR	BOHI2	2	10	Bouteloua hirsuta	3	
07GC001	GC	F	12	2009	COMERE	COER	0.5	20	Commelina erecta	4	
07GC001	GC	F	12	2009	ERASEC	ERSE	1	18	Eragrostis secundiflora	3	
07GC001	GC	F	12	2009	GUTSAR	GUSA2	2	15	Gutierrezia sarothrae	2.5	
07GC001	GC	F	12	2009	PASSETS	PASES	1	13	Paspalum setaceum var. stramineum	3	
07GC001	GC	F	12	2009	QUEHAV	QUHA3	7	40	Quercus havardii	2	
07GC001	GC	F	12	2009	SCHSCO	scsc	33	25	Schizachyrium scoparium	3	
07GC001	GC	F	12	2009	SENSPA	SESP3	1	24	Senecio spartioides	4	
07GC001	GC	F	12	2009	SPOCRY	SPCR	2	30	Sporobolus cryptandrus	3	
07GC001	GC	F	12	2009	XANSPI2	MAPI	0.5	20	Xanthisma spinulosum	4	
07GC001	GC	F	22	2009	ANDHAL	ANHA	9	35	Andropogon hallii	3	
07GC001	GC	F	22	2009	ARIPUR	ARPU9	3	25	Aristida purpurea	3	
07GC001	GC	F	22	2009	BOUHIR	BOHI2	5	10	Bouteloua hirsuta	3	
07GC001	GC	F	22	2009	CALSER	CASE12	0.1	21	Calylophus serrulatus	4	
07GC001	GC	F	22	2009	COMERE	COER	0.1	12	Commelina erecta	4	
07GC001	GC	F	22	2009	DALNANN	DANAN	0.1	8	Dalea nana var.	4	
07GC001	GC	F	22	2009	LITMUL	LIMU3	0.1	16	Lithospermum multiflorum	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paronychia		
07GC001	GC	F	22	2009	PARJAM	PAJA	0.5	4	jamesii	4	
									Quercus		
07GC001	GC	F	22	2009	QUEHAV	QUHA3	3	30	havardii	2	
									Schizachyrium		
07GC001	GC	F	22	2009	SCHSCO	SCSC	23	25	scoparium	3	
									Sporobolus		
07GC001	GC	F	22	2009	SPOCRY	SPCR	4	30	cryptandrus	3	
									Andropogon		
07GC001	GC	F	32	2009	ANDHAL	ANHA	1	48	hallii	3	
									Bouteloua		
07GC001	GC	F	32	2009	BOUCUR	BOCU	2	15	curtipendula	3	
									Bouteloua		
07GC001	GC	F	32	2009	BOUHIR	BOHI2	3	8	hirsuta	3	
									Commelina		
07GC001	GC	F	32	2009	COMERE	COER	0.5	7	erecta	4	
									Evolvulus		
07GC001	GC	F	32	2009	EVOSER	EVSE	0.5	15	sericeus	4	
									Lithospermum		
07GC001	GC	F	32	2009	LITMUL	LIMU3	0.1	14	multiflorum	4	
									Paspalum		
									setaceum var.		
07GC001	GC	F	32	2009	PASSETS	PASES	1	15	stramineum	3	
									Quercus		
07GC001	GC	F	32	2009	QUEHAV	QUHA3	11	45	havardii	2	
									Schizachyrium		
07GC001	GC	F	32	2009	SCHSCO	SCSC	36	25	scoparium	3	
									Sporobolus		
07GC001	GC	F	32	2009	SPOCRY	SPCR	1	25	cryptandrus	3	
_									Andropogon		
07GC001	GC	F	42	2009	ANDHAL	ANHA	4	45	hallii	3	
		_							Bouteloua		
07GC001	GC	F	42	2009	BOUCUR	BOCU	3	15	curtipendula	3	
									Brickellia		
		_							eupatorioides		
07GC001	GC	F	42	2009	BRIEUPC	BREUC2	2	43	var. chlorolepis	2.5	
		_							Calylophus		
07GC001	GC	F	42	2009	CALSER	CASE12	2	25	serrulatus	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Commelina		
07GC001	GC	F	42	2009	COMERE	COER	1	10	erecta	4	
									Digitaria		
07GC001	GC	F	42	2009	DIGPUB	DIPU9	4	12	pubiflora	3	
									Evolvulus		
07GC001	GC	F	42	2009	EVOSER	EVSE	2	15	sericeus	4	
									Heterotheca		
07GC001	GC	F	42	2009	HETVIL	HEVI4	0.1	12	villosa	4	
		_							Lithospermum		
07GC001	GC	F	42	2009	LITMUL	LIMU3	0.1	11	multiflorum	4	
		_							Lorandersonia		
07GC001	GC	F	42	2009	LORPUL	CHPU4	0.5	60	pulchella	2	
.=00004		_							Melampodium		
07GC001	GC	F	42	2009	MELLEU	MELE2	1	14	leucanthum	4	
									Paspalum		
0700004	00	_	40	0000	DAGOETO	DAOFO		-00	setaceum var.		
07GC001	GC	F	42	2009	PASSETS	PASES	2	20	stramineum	3	
0700004	00	_	40	0000	OLIELIA)/	0111140	25	4.5	Quercus		
07GC001	GC	F	42	2009	QUEHAV	QUHA3	35	45	havardii	2	
07GC001	GC	F	42	2009	SCHSCO	SCSC	16	30	Schizachyrium scoparium	3	
076001	GC	Г	42	2009	зспасо	3030	10	30	Sporobolus	3	
07GC001	GC	F	42	2009	SPOCRY	SPCR	1	25	cryptandrus	3	
076001	GC	I	42	2009	3F OCK I	SF GIX	ı	23	Aristida	3	
07GC001	GC	G	2	2009	ARIPUR	ARPU9	6	30	purpurea	3	
070001	00	0		2003	AINII OIN	AIXI 03	U	30	Cenchrus	3	
07GC001	GC	G	2	2009	CENSPI	CESP4	0.5	7	spinifex	3	
070001				2000	02.10.1	02011	0.0		Оришох		change MIRGLA
07GC001	GC	G	2	2009	MIRLIN	MILI3	0.1	8	Mirabilis linearis	4	to MIRLIN-YC
		-				-			Paspalum		
									setaceum var.		
07GC001	GC	G	2	2009	PASSETS	PASES	3	15	stramineum	3	
									Quercus		read quads
07GC001	GC	G	2	2009	QUEHAV	QUHA3	14	50	havardii	2	toward west
									Schizachyrium		
07GC001	GC	G	2	2009	SCHSCO	SCSC	6	20	scoparium	3	
									Sporobolus		
07GC001	GC	G	2	2009	SPOCRY	SPCR	1	20	cryptandrus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Bouteloua		
07GC001	GC	G	12	2009	BOUHIR	BOHI2	1	6	hirsuta	3	
									Cyperus		
07GC001	GC	G	12	2009	CYPRET	CYRE14	1	12	retroflexus	3	
									Paspalum		
									setaceum var.		
07GC001	GC	G	12	2009	PASSETS	PASES	10	10	stramineum	3	
									Quercus		
07GC001	GC	G	12	2009	QUEHAV	QUHA3	28	40	havardii	2	
		_							Schizachyrium		
07GC001	GC	G	12	2009	SCHSCO	SCSC	8	30	scoparium	3	
									Sporobolus		
07GC001	GC	G	12	2009	SPOCRY	SPCR	3	20	cryptandrus	3	
0700004			4.0	0000	TUENEO	T. 15.45	0.5	-00	Thelesperma		
07GC001	GC	G	12	2009	THEMEG	THME	0.5	28	megapotamicum	4	
0700004	00		00	0000	AMBROL	ANADO	0.5	47	Ambrosia		
07GC001	GC	G	22	2009	AMBPSI	AMPS	0.5	17	psilostachya	4	
0700004	00		00	0000	ODVOIN	ODOIO	0.4	40	Cryptantha		
07GC001	GC	G	22	2009	CRYCIN	CRCI3	0.1	12	cinerea	4	
07GC001	GC	G	22	2009	CYPRET	CYRE14	0.1	10	Cyperus retroflexus	3	
076001	GC	G		2009	CIFKEI	CTRE14	0.1	10	Paspalum	3	
									setaceum var.		
07GC001	GC	G	22	2009	PASSETS	PASES	6	15	stramineum	3	
070001	00	G		2003	TAGGETG	1 AGEG	0	10	Quercus	3	
07GC001	GC	G	22	2009	QUEHAV	QUHA3	20	35	havardii	2	
070001	00			2000	QUEITITY	QOTITO		- 00	Schizachyrium		
07GC001	GC	G	22	2009	SCHSCO	SCSC	16	30	scoparium	3	
2.2001		_			3211300				Sporobolus		
07GC001	GC	G	22	2009	SPOCRY	SPCR	0.5	20	cryptandrus	3	
									Xanthisma		
07GC001	GC	G	22	2009	XANSPI2	MAPI	2	25	spinulosum	4	
									Aristida		
07GC001	GC	G	32	2009	ARIPUR	ARPU9	3	30	purpurea	3	
									Bouteloua		
07GC001	GC	G	32	2009	BOUHIR	BOHI2	1	8	hirsuta	3	
									Commelina		
07GC001	GC	G	32	2009	COMERE	COER	0.5	8	erecta	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Cyperus		
07GC001	GC	G	32	2009	CYPRET	CYRE14	0.5	8	retroflexus	3	
									Digitaria		
07GC001	GC	G	32	2009	DIGPUB	DIPU9	2	15	pubiflora	3	
											change MIRGLA
07GC001	GC	G	32	2009	MIRLIN	MILI3	0.1	11	Mirabilis linearis	4	to MIRLIN-YC
									Paspalum		
070004	00			0000	DAGGETO	D. 050		4.0	setaceum var.		
07GC001	GC	G	32	2009	PASSETS	PASES	3	10	stramineum	3	
0700004	00		20	0000	OLIELIA)/	0111140	00	40	Quercus		
07GC001	GC	G	32	2009	QUEHAV	QUHA3	20	40	havardii	2	
07GC001	GC	G	32	2009	SCHSCO	scsc	15	20	Schizachyrium	3	
076001	GC	G	32	2009	зспасо	3030	15	20	scoparium Sporobolus	3	
07GC001	GC	G	32	2009	SPOCRY	SPCR	1	20	cryptandrus	3	
076001	GC	G	32	2009	SPUCKT	SPCK	I I	20	Thelesperma	3	
07GC001	GC	G	32	2009	THEMEG	THME	0.5	35	megapotamicum	4	
07 00001	00	G	52	2003	TTILIVILO	I I IIVIL	0.5	33	Xanthisma		
07GC001	GC	G	32	2009	XANSPI2	MAPI	0.1	15	spinulosum	4	
0,0001			02	2000	70 11 101 12	IVII (I I	0.1		Ambrosia		
07GC001	GC	G	42	2009	AMBPSI	AMPS	0.1	20	psilostachya	4	
									Aristida		
07GC001	GC	G	42	2009	ARIPUR	ARPU9	1	20	purpurea	3	
									Bouteloua		
07GC001	GC	G	42	2009	BOUHIR	BOHI2	4	12	hirsuta	3	
									Calylophus		
07GC001	GC	G	42	2009	CALSER	CASE12	0.5	20	serrulatus	4	
									Cyperus		
07GC001	GC	G	42	2009	CYPRET	CYRE14	0.5	15	retroflexus	3	
									Digitaria		
07GC001	GC	G	42	2009	DIGPUB	DIPU9	3	10	pubiflora	3	
				0000	ED 46=6	EDOE			Eragrostis		
07GC001	GC	G	42	2009	ERASEC	ERSE	3	25	secundiflora	3	
07GC001	GC	G	42	2009	GAUVIL	GAVI2	0.1	30	Gaura villosa	4	
									Paspalum		
0700004	00		40	2000	DACCETO	DACEC	_	40	setaceum var.	_	
07GC001	GC	G	42	2009	PASSETS	PASES	3	10	stramineum	3	
07GC001	GC	G	42	2009	QUEHAV	QUHA3	32	30	Quercus	2	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									havardii		
									Schizachyrium		
07GC001	GC	G	42	2009	SCHSCO	SCSC	12	30	scoparium	3	
									Sporobolus		
07GC001	GC	G	42	2009	SPOCRY	SPCR	6	30	cryptandrus	3	
									Aristida		
07GC001	GC	Н	2	2009	ARIPUR	ARPU9	1	20	purpurea	3	
									Bouteloua		
07GC001	GC	Н	2	2009	BOUHIR	BOHI2	0.5	10	hirsuta	3	
			_						Commelina		
07GC001	GC	Н	2	2009	COMERE	COER	0.5	7	erecta	4	
.=					001/011	0000			Cryptantha		
07GC001	GC	Н	2	2009	CRYCIN	CRCI3	0.5	16		4	
0700004				0000	0)/DDET	0)/DE44		4.0	Cyperus		
07GC001	GC	Н	2	2009	CYPRET	CYRE14	0.5	10	retroflexus	3	
07GC001	GC	Н	2	2009	GAUVIL	GAVI2	1	28	Gaura villosa	4	
.=									Heterotheca		
07GC001	GC	Н	2	2009	HETVIL	HEVI4	1	13	villosa	4	
									Paspalum		
0700004	00			0000	DACCETO	DACEC	0.5		setaceum var.		
07GC001	GC	Н	2	2009	PASSETS	PASES	0.5	8	stramineum	3	1 1 .
0700004	00		_	2000	OHEHAY.	OLILIAO	4.0	40	Quercus		read quads
07GC001	GC	Н	2	2009	QUEHAV	QUHA3	16	40	havardii	2	toward west
07GC001	GC	Н	2	2009	SCHSCO	scsc	18	30	Schizachyrium	3	
076001	GC	П		2009	зспасо	3030	10	30	scoparium Sporobolus	3	
07GC001	GC	Н	2	2009	SPOCRY	SPCR	2	35	cryptandrus	3	
07 GC001	GC	11		2009	3F OCK I	JF GIX		33	Xanthisma	3	
07GC001	GC	Н	2	2009	XANSPI2	MAPI	1	17	spinulosum	4	
070001	00			2003	AAINOI IZ	IVIZALI		17	Ambrosia		
07GC001	GC	Н	12	2009	AMBPSI	AMPS	1.5	28	psilostachya	4	
37 3 3 3 3 3	. 30		14	2000	, WIDI OI	, tivii O	1.5	20	Andropogon	7	
07GC001	GC	Н	12	2009	ANDHAL	ANHA	12	50	hallii	3	
3, 33001			14	2000	, , , , , , , , , , , , , , , , , , , ,	, ti ti i, t	14	30	Bouteloua		
07GC001	GC	Н	12	2009	BOUHIR	BOHI2	1	10	hirsuta	3	
3. 2 3001									Calylophus		
07GC001	GC	Н	12	2009	CALSER	CASE12	1	20	serrulatus	4	
07GC001	GC	Н	12	2009	COMERE	COER	0.5	12	Commelina	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									erecta		
									Heterotheca		
07GC001	GC	Н	12	2009	HETVIL	HEVI4	3	22	villosa	4	
									Lithospermum		
07GC001	GC	Н	12	2009	LITMUL	LIMU3	0.1	23	multiflorum	4	
									Paspalum		
									setaceum var.		
07GC001	GC	Н	12	2009	PASSETS	PASES	2	15	stramineum	3	
									Quercus	_	
07GC001	GC	Н	12	2009	QUEHAV	QUHA3	8	35	havardii	2	
									Schizachyrium		
07GC001	GC	Н	12	2009	SCHSCO	SCSC	25	30	scoparium	3	
.=					000001	0000			Sporobolus		
07GC001	GC	Н	12	2009	SPOCRY	SPCR	2	30	cryptandrus	3	
0700004	00		40	0000	VANODIO	MADI		00	Xanthisma		
07GC001	GC	Н	12	2009	XANSPI2	MAPI	2	30	spinulosum	4	
07GC001	GC	Н	12	2009	YUCGLA	YUGL	1	40	Yucca glauca	2	
270004			-00	0000	ANIBILAL			00	Andropogon		
07GC001	GC	Н	22	2009	ANDHAL	ANHA	6	30	hallii	3	
0700004	00		00	0000	DOLUMB	DOLUG	_		Bouteloua		
07GC001	GC	Н	22	2009	BOUHIR	BOHI2	5	8	hirsuta	3	
0700001	00	ы	22	2000	CDVCIN	CDCIa	2	15	Cryptantha		
07GC001	GC	Н	22	2009	CRYCIN	CRCI3	2	15	cinerea Evolvulus	4	
07GC001	GC	Н	22	2009	EVOSER	EVSE	0.5	15	sericeus	4	
076001	GC	П		2009	EVUSER	EVSE	0.5	15	Heterotheca	4	
07GC001	GC	Н	22	2009	HETVIL	HEVI4	0.1	12	villosa	4	
07 GC001		11		2003	IILIVIL	1 IL V 14	0.1	12	Lithospermum	4	
07GC001	GC	Н	22	2009	LITMUL	LIMU3	0.1	22	multiflorum	4	
07 00001		11		2003	LITIVIOL	LIMOS	0.1		Paronychia	4	
07GC001	GC	Н	22	2009	PARJAM	PAJA	1	6	jamesii	4	
37 3 3 3 3 3 1		11		2000	1 / II CO/CIVI	1 / 10/1	1		Paspalum	7	
									setaceum var.		
07GC001	GC	Н	22	2009	PASSETS	PASES	3	12	stramineum	3	
07GC001	GC	Н	22	2009	POMJAM	POJA5	0.5	6	Pomaria jamesii	4	
3. 2 3 0 0 1							0.0		Quercus	•	
07GC001	GC	Н	22	2009	QUEHAV	QUHA3	7	35	havardii	2	
07GC001	GC	Н	22	2009	SCHSCO	SCSC	30	25	Schizachyrium	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									scoparium		
									Sporobolus		
07GC001	GC	Н	22	2009	SPOCRY	SPCR	1	20	cryptandrus	3	
									Ambrosia		
07GC001	GC	H	32	2009	AMBPSI	AMPS	0.1	25	psilostachya	4	
									Andropogon		
07GC001	GC	H	32	2009	ANDHAL	ANHA	4	60	hallii	3	
									Bouteloua		
07GC001	GC	H	32	2009	BOUCUR	BOCU	2	20	curtipendula	3	
									Bouteloua		
07GC001	GC	Н	32	2009	BOUHIR	BOHI2	1	10	hirsuta	3	
									Chamaesyce		
07GC001	GC	Н	32	2009	CHAFEN	CHFE3	0.5	3	fendleri	4	
									Commelina		
07GC001	GC	Н	32	2009	COMERE	COER	1	15	erecta	4	
									Cryptantha		
07GC001	GC	Н	32	2009	CRYCIN	CRCI3	0.1	7	cinerea	4	
									Cyperus		
07GC001	GC	Н	32	2009	CYPRET	CYRE14	0.1	7	retroflexus	3	
									Eragrostis		
07GC001	GC	Н	32	2009	ERASEC	ERSE	1	20	secundiflora	3	
									Heterotheca		
07GC001	GC	Н	32	2009	HETVIL	HEVI4	0.5	22	villosa	4	
									Paspalum		
<b></b>							_		setaceum var.	_	
07GC001	GC	Н	32	2009	PASSETS	PASES	3	12	stramineum	3	
<b></b>							_		Quercus	_	
07GC001	GC	Н	32	2009	QUEHAV	QUHA3	9	40	havardii	2	
									Schizachyrium		
07GC001	GC	Н	32	2009	SCHSCO	SCSC	35	25	scoparium	3	
070000:				0000	000000	0000			Sporobolus		
07GC001	GC	Н	32	2009	SPOCRY	SPCR	1	35	cryptandrus	3	
070000			4.0	0000	4445501	11100		4.0	Ambrosia		
07GC001	GC	Н	42	2009	AMBPSI	AMPS	0.1	12	psilostachya	4	
0700004	00		40	0000	ANIDITAL	A N II I A			Andropogon		
07GC001	GC	Н	42	2009	ANDHAL	ANHA	1	25	hallii	3	
0700004	00		40	2000	DOLLOUD	DOCL	_	40	Bouteloua		
07GC001	GC	Н	42	2009	BOUCUR	BOCU	5	12	curtipendula	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Bouteloua		
07GC001	GC	Н	42	2009	BOUHIR	BOHI2	2	11	hirsuta	3	
									Calylophus		
07GC001	GC	Н	42	2009	CALSER	CASE12	1	15	serrulatus	4	
									Cyperus		
07GC001	GC	Н	42	2009	CYPRET	CYRE14	0.5	10	retroflexus	3	
									Opuntia		
07GC001	GC	Н	42	2009	OPUPHA	OPPH	0.1	4	phaeacantha	2.5	
									Paspalum		
.=					5.00==0	54050			setaceum var.		
07GC001	GC	Н	42	2009	PASSETS	PASES	4	15	stramineum	3	
0700004	00		40	0000	OLIELIA)/	0111140		0.5	Quercus		
07GC001	GC	Н	42	2009	QUEHAV	QUHA3	14	35	havardii	2	
07GC001	GC	Н	42	2009	SCHSCO	scsc	17	25	Schizachyrium		
07GC001	GC	П	42	2009	SCHSCO	SUSU	17	25	scoparium	3	
07GC001	GC	Н	42	2009	SPOCRY	SPCR	3	25	Sporobolus cryptandrus	3	
076001	GC	П	42	2009	SPOCKI	SPUR	3	23	Thelesperma	3	
07GC001	GC	Н	42	2009	THEMEG	THME	0.1	17	megapotamicum	4	
070001	00	11	72	2003	TTILIVILO	I I IIVIL	0.1	17	Xanthisma		
07GC001	GC	Н	42	2009	XANSPI2	MAPI	0.1	20	spinulosum	4	
070001			12	2000	70 11 101 12	IVII (I I	0.1		Andropogon		
07GR001	GR	Α	2	2009	ANDHAL	ANHA	7	15	hallii	3	
0.0.100.			_		7 (2	7			Aristida		Read quads
07GR001	GR	Α	2	2009	ARIPUR	ARPU9	4	15	purpurea	3	toward N.
									Bouteloua		
07GR001	GR	Α	2	2009	BOUHIR	BOHI2	2	8	hirsuta	3	
									Calylophus		
07GR001	GR	Α	2	2009	CALSER	CASE12	1	15	serrulatus	4	
									Commelina		
07GR001	GR	Α	2	2009	COMERE	COER	0.1	7	erecta	4	
									Eragrostis		
07GR001	GR	Α	2	2009	ERASEC	ERSE	1	10	secundiflora	3	
_									Froelichia		
07GR001	GR	Α	2	2009	FROGRA	FRGR3	0.1	6	gracilis	4	
								_	Paronychia		
07GR001	GR	Α	2	2009	PARJAM	PAJA	1	6	jamesii	4	
07GR001	GR	Α	2	2009	PASSETS	PASES	1	6	Paspalum	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									setaceum var.		
									stramineum		
									Quercus		
07GR001	GR	Α	2	2009	QUEHAV	QUHA3	11	30	havardii	2	
									Schizachyrium		
07GR001	GR	Α	2	2009	SCHSCO	SCSC	12	20	scoparium	3	
									Sporobolus		
07GR001	GR	Α	2	2009	SPOCRY	SPCR	0.5	8	cryptandrus	3	
									Thelesperma		
07GR001	GR	Α	2	2009	THEMEG	THME	0.1	48	megapotamicum	4	
									Xanthisma		
07GR001	GR	Α	2	2009	XANSPI2	MAPI	0.5	18	spinulosum	4	
									Andropogon		
07GR001	GR	Α	12	2009	ANDHAL	ANHA	1	28	hallii	3	
									Bouteloua		
07GR001	GR	Α	12	2009	BOUHIR	BOHI2	1	6	hirsuta	3	
									Calylophus		
07GR001	GR	Α	12	2009	CALSER	CASE12	0.5	8	serrulatus	4	
									Cyperus		
07GR001	GR	Α	12	2009	CYPRET	CYRE14	1	12	retroflexus	3	
									Eragrostis		
07GR001	GR	Α	12	2009	ERASEC	ERSE	0.1	18	secundiflora	3	
									Froelichia		
07GR001	GR	Α	12	2009	FROGRA	FRGR3	0.1	8	gracilis	4	
									Krameria		
07GR001	GR	Α	12	2009	KRALAN	KRLA	3	6	lanceolata	4	
									Paspalum		
									setaceum var.		
07GR001	GR	Α	12	2009	PASSETS	PASES	1	10	stramineum	3	
									Quercus		
07GR001	GR	Α	12	2009	QUEHAV	QUHA3	19	25	havardii	2	
									Schizachyrium		
07GR001	GR	Α	12	2009	SCHSCO	SCSC	22	20	scoparium	3	
									Sporobolus		
07GR001	GR	Α	12	2009	SPOCRY	SPCR	2	26	cryptandrus	3	
									Thelesperma		
07GR001	GR	Α	12	2009	THEMEG	THME	0.1	45	megapotamicum	4	
07GR001	GR	Α	22	2009	BOUCUR	BOCU	1	18	Bouteloua	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									curtipendula		
07GR001	GR	A	22	2009	BOUHIR	BOHI2	3	10	Bouteloua hirsuta	3	
07GR001	GR	Α	22	2009	CALSER	CASE12	0.5	15	Calylophus serrulatus	4	
07GR001	GR	Α	22	2009	CHAFEN	CHFE3	0.1	5	Chamaesyce fendleri	4	
07GR001	GR	A	22	2009	CYPRET	CYRE14	1	11	Cyperus retroflexus	3	
07GR001	GR	A	22	2009	DIGPUB	DIPU9	4	14	Digitaria pubiflora	3	
07GR001	GR	Α	22	2009	ERASEC	ERSE	2	18	Eragrostis secundiflora	3	
07GR001	GR	Α	22	2009	PARJAM	PAJA	0.1	6	Paronychia jamesii	4	
07GR001	GR	Α	22	2009	PASSETS	PASES	1	8	Paspalum setaceum var. stramineum	3	
07GR001	GR	Α	22	2009	QUEHAV	QUHA3	28	25	Quercus havardii	2	
07GR001	GR	А	22	2009	SCHSCO	SCSC	16	26	Schizachyrium scoparium	3	
07GR001	GR	A	22	2009	XANSPI2	MAPI	0.1	20	Xanthisma spinulosum	4	
07GR001	GR	A	32	2009	ANDHAL	ANHA	12	33	Andropogon hallii	3	
07GR001	GR	A	32	2009	BOUHIR	BOHI2	2	8	Bouteloua hirsuta	3	
07GR001	GR	Α	32	2009	CALSER	CASE12	1	15	Calylophus serrulatus	4	
07GR001	GR	Α	32	2009	CYPRET	CYRE14	0.5	15	Cyperus retroflexus	3	
07GR001	GR	Α	32	2009	DIGPUB	DIPU9	6	15	Digitaria pubiflora	3	
07GR001	GR	Α	32	2009	PARJAM	PAJA	0.1	5	Paronychia jamesii	4	
07GR001	GR	A	32	2009	PASSETS	PASES	3	10	Paspalum setaceum var.	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									stramineum		
									Quercus		
07GR001	GR	Α	32	2009	QUEHAV	QUHA3	13	45	havardii	2	
									Schizachyrium		
07GR001	GR	Α	32	2009	SCHSCO	SCSC	14	30	scoparium	3	
									Andropogon		
07GR001	GR	Α	42	2009	ANDHAL	ANHA	1	52	hallii	3	
		_							Aristida		
07GR001	GR	Α	42	2009	ARIPUR	ARPU9	0.5	17	purpurea	3	
.=					50111115	501110			Bouteloua		
07GR001	GR	Α	42	2009	BOUHIR	BOHI2	3	8	hirsuta	3	
0700004	0.0		40	0000	041.055	040540		40	Calylophus		
07GR001	GR	Α	42	2009	CALSER	CASE12	1	18	serrulatus	4	
070004	GR	_	40	2000	COMERE	COED	0.4	40	Commelina	4	
07GR001	GR	Α	42	2009	COMERE	COER	0.1	12	erecta	4	
07GR001	GR	Α	42	2009	CYPRET	CYRE14	0.1	5	Cyperus retroflexus	3	
UIGRUUT	GK	A	42	2009	CIPKEI	CTRE14	0.1	3	Digitaria	3	
07GR001	GR	Α	42	2009	DIGPUB	DIPU9	5	15		3	
07 011001	OIX		72	2003	DIGI OB	Dii 09	J	10	Evolvulus	3	
07GR001	GR	Α	42	2009	EVOSER	EVSE	0.5	8	sericeus	4	
07011001	OIX			2000	LVOOLIK	LVOL	0.0		Linum rigidum		
07GR001	GR	Α	42	2009	LINRIGR	LIRIR	0.1	10	var. rigidum	4	
									Lithospermum	-	
07GR001	GR	Α	42	2009	LITMUL	LIMU3	1	10	multiflorum	4	
07GR001	GR	Α	42	2009	MIRLIN	MILI3	0.5	13	Mirabilis linearis	4	
									Paspalum		
									setaceum var.		
07GR001	GR	Α	42	2009	PASSETS	PASES	2	13	stramineum	3	
									Quercus		
07GR001	GR	Α	42	2009	QUEHAV	QUHA3	12	30	havardii	2	
									Schizachyrium		
07GR001	GR	Α	42	2009	SCHSCO	SCSC	23	25	scoparium	3	
									Sporobolus		
07GR001	GR	Α	42	2009	SPOCRY	SPCR	0.5	32	cryptandrus	3	
070500:	0.0			0000	WANGE:				Xanthisma		
07GR001	GR	Α	42	2009	XANSPI2	MAPI	1	20	spinulosum	4	
07GR001	GR	В	2	2009	AMBPSI	AMPS	1	25	Ambrosia	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									psilostachya		
									Andropogon		change ANDGER
07GR001	GR	В	2	2009	ANDHAL	ANHA	1	45	hallii	3	to ANDHAL-YC
									Bouteloua		
07GR001	GR	В	2	2009	BOUHIR	BOHI2	4	10	hirsuta	3	
		_						_	Paronychia	_	
07GR001	GR	В	2	2009	PARJAM	PAJA	2	5	jamesii	4	
									Paspalum		
07GR001	GR	В	2	2009	PASSETS	PASES	4	7	setaceum var. stramineum	3	
07GR001	GR	В	2	2009	PASSETS	PASES POJA5	3	14		4	
07GR001	GR	D		2009	POWJAW	POJAS	<u> </u>	14	Pomaria jamesii Quercus	4	
07GR001	GR	В	2	2009	QUEHAV	QUHA3	23	50	havardii	2	
0701001	OIX	В		2003	QUEITAV	QUIIAS	23	30	Schizachyrium		
07GR001	GR	В	2	2009	SCHSCO	SCSC	7	30	scoparium	3	
		_	_						Sporobolus		
07GR001	GR	В	2	2009	SPOCRY	SPCR	0.5	20	cryptandrus	3	
									Xanthisma		
07GR001	GR	В	2	2009	XANSPI2	MAPI	0.5	17	spinulosum	4	
											read quads
07GR001	GR	В	2	2009	YUCGLA	YUGL	5	35	Yucca glauca	2	toward N.
_					_				Ambrosia		
07GR001	GR	В	12	2009	AMBPSI	AMPS	0.1	12	psilostachya	4	
.=05.04									Andropogon		change ANDGER
07GR001	GR	В	12	2009	ANDHAL	ANHA	10	35	hallii	3	to ANDHAL-YC
07GR001	GR	В	12	2000	BOUHIR	BOHI2	4	7	Bouteloua hirsuta	3	
0768001	GR	Ь	12	2009	BOURIK	ВОПІЗ	4	1	Eragrostis	3	
07GR001	GR	В	12	2009	ERASEC	ERSE	2	15	secundiflora	3	
07GR001	GIX	Ь	12	2009	LIXAGEC	LINGL		13	Evolvulus	3	
07GR001	GR	В	12	2009	EVOSER	EVSE	0.5	21	sericeus	4	
57 511001		_	, , _		27002.0		0.0		Heterotheca		
07GR001	GR	В	12	2009	HETVIL	HEVI4	0.1	17	villosa	4	
07GR001	GR	В	12	2009	POMJAM	POJA5	0.5	21	Pomaria jamesii	4	
									Quercus		
07GR001	GR	В	12	2009	QUEHAV	QUHA3	5	40	havardii	2	
									Schizachyrium		
07GR001	GR	В	12	2009	SCHSCO	SCSC	13	26	scoparium	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Sporobolus		
07GR001	GR	В	12	2009	SPOCRY	SPCR	3	16	cryptandrus	3	
									Thelesperma		
07GR001	GR	В	12	2009	THEMEG	THME	0.5	53	megapotamicum	4	
									Andropogon		change ANDGER
07GR001	GR	В	22	2009	ANDHAL	ANHA	5	38	hallii	3	to ANDHAL-YC
									Bouteloua		
07GR001	GR	В	22	2009	BOUHIR	BOHI2	3	5	hirsuta	3	
									Cryptantha		
07GR001	GR	В	22	2009	CRYCIN	CRCI3	0.1	7	cinerea	4	
									Digitaria		
07GR001	GR	В	22	2009	DIGPUB	DIPU9	1	12	pubiflora	3	
_									Gutierrezia		
07GR001	GR	В	22	2009	GUTSAR	GUSA2	6	22	sarothrae	2.5	
									Paspalum		
					5.00==0	D. 050			setaceum var.		
07GR001	GR	В	22	2009	PASSETS	PASES	1	9	stramineum	3	
0705004	0.5	_	-00	0000	OLIELIA),	0111140	0.5	4-	Quercus		
07GR001	GR	В	22	2009	QUEHAV	QUHA3	25	45	havardii	2	
07GR001	GR	В	22	2000	SCHSCO	scsc	9	18	Schizachyrium	3	
07GR001	GR	Ь	22	2009	зспасо	3030	9	10	scoparium	<u> </u>	
07GR001	GR	В	22	2009	THEMEG	THME	0.1	45	Thelesperma megapotamicum	4	
0768001	GK	Ь		2009	THEMEG	I I IIVIL	0.1	45	Andropogon	4	change ANDGER
07GR001	GR	В	32	2009	ANDHAL	ANHA	3	53	hallii	3	to ANDHAL-YC
07 GIXOUT	GIX	D	32	2009	ANDITAL	ANIIA	3	- 33	Bouteloua	3	to ANDITAL-TO
07GR001	GR	В	32	2009	BOUCUR	BOCU	1	19	curtipendula	3	
07 01(001	OIX		52	2003	BOOODIX	Восо		10	Bouteloua	<u> </u>	
07GR001	GR	В	32	2009	BOUHIR	BOHI2	4	7	hirsuta	3	
0.0.100.		_							Chamaesyce		
07GR001	GR	В	32	2009	CHAGLY	CHGL13	0.5	2		4	
	_						1.5		Cyperus		
07GR001	GR	В	32	2009	CYPRET	CYRE14	0.1	10	retroflexus	3	
07GR001	GR	В	32	2009	DALPUR	DAPU5	0.1	6	Dalea purpurea	4	
									Digitaria		
07GR001	GR	В	32	2009	DIGPUB	DIPU9	15	8		3	
									Froelichia		
07GR001	GR	В	32	2009	FROGRA	FRGR3	0.1	17	gracilis	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Gutierrezia		
07GR001	GR	В	32	2009	GUTSAR	GUSA2	0.1	8	sarothrae	2.5	
									Paspalum		
									setaceum var.		
07GR001	GR	В	32	2009	PASSETS	PASES	2	10	stramineum	3	
									Quercus		
07GR001	GR	В	32	2009	QUEHAV	QUHA3	10	35	havardii	2	
									Schizachyrium		
07GR001	GR	В	32	2009	SCHSCO	SCSC	12	15	scoparium	3	
									Sporobolus		
07GR001	GR	В	32	2009	SPOCRY	SPCR	2	24	cryptandrus	3	
									Thelesperma		
07GR001	GR	В	32	2009	THEMEG	THME	0.1	38	megapotamicum	4	
									Aristida		
07GR001	GR	В	42	2009	ARIPUR	ARPU9	1	20	purpurea	3	
									Bouteloua		
07GR001	GR	В	42	2009	BOUCUR	BOCU	2	20	curtipendula	3	
									Bouteloua		
07GR001	GR	В	42	2009	BOUHIR	BOHI2	2	8	hirsuta	3	
									Calylophus		
07GR001	GR	В	42	2009	CALSER	CASE12	0.5	25	serrulatus	4	
									Paspalum		
									setaceum var.		
07GR001	GR	В	42	2009	PASSETS	PASES	3	11	stramineum	3	
_	_				_				Quercus		
07GR001	GR	В	42	2009	QUEHAV	QUHA3	13	37	havardii	2	
<b>_</b>		_							Schizachyrium	_	
07GR001	GR	В	42	2009	SCHSCO	SCSC	19	22	scoparium	3	
		_					_		Sporobolus	_	
07GR001	GR	В	42	2009	SPOCRY	SPCR	3	30	cryptandrus	3	
									Thelesperma		
07GR001	GR	В	42	2009	THEMEG	THME	0.5	58	megapotamicum	4	
									Xanthisma		
07GR001	GR	В	42	2009	XANSPI2	MAPI	0.5	17	spinulosum	4	
070500:			_	0000	ANIBLIA		_		Andropogon		
07GR001	GR	С	2	2009	ANDHAL	ANHA	5	45	hallii	3	
					50	DOLUG.		_	Bouteloua	_	
07GR001	GR	С	2	2009	BOUHIR	BOHI2	3	7	hirsuta	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Calylophus		
07GR001	GR	С	2	2009	CALSER	CASE12	0.1	22	serrulatus	4	
									Commelina		
07GR001	GR	С	2	2009	COMERE	COER	0.1	25	erecta	4	
									Cyperus		
07GR001	GR	С	2	2009	CYPRET	CYRE14	0.1	7	retroflexus	3	
									Digitaria		
07GR001	GR	С	2	2009	DIGPUB	DIPU9	1	14		3	
									Paspalum		
			_						setaceum var.		
07GR001	GR	С	2	2009	PASSETS	PASES	2	12	stramineum	3	
0700001	0.5			0000	011511417	0111140	_	00	Quercus		read quads
07GR001	GR	С	2	2009	QUEHAV	QUHA3	5	30	havardii	2	towards north
0700004	OD			0000	0011000	0000	00	0.5	Schizachyrium		
07GR001	GR	С	2	2009	SCHSCO	SCSC	20	25	scoparium	3	
0700004	GR	С	2	2000	SPOCRY	SPCR	0.4	40	Sporobolus		
07GR001	GR	C		2009	SPOCKY	SPCR	0.1	12		3	
07GR001	GR	С	12	2009	ANDHAL	ANHA	12	45	Andropogon hallii	3	
UIGRUUT	GK	C	12	2009	ANDHAL	ANTIA	12	45	Aristida	3	
07GR001	GR	С	12	2009	ARIPUR	ARPU9	11	22	purpurea	3	
07011001	OIX	O	12	2003	AINI OIN	AITI 03	11		Bouteloua	3	
07GR001	GR	С	12	2009	BOUHIR	BOHI2	10	12	hirsuta	3	
07011001	OIX		12	2000	Boorma	BOTTLE		12	Commelina		
07GR001	GR	С	12	2009	COMERE	COER	0.1	10	erecta	4	
			<u>-</u>			002.1	<b></b>		Paspalum		
									setaceum var.		
07GR001	GR	С	12	2009	PASSETS	PASES	1	10	stramineum	3	
									Quercus		
07GR001	GR	С	12	2009	QUEHAV	QUHA3	8	28	havardii	2	
									Schizachyrium		
07GR001	GR	С	12	2009	SCHSCO	SCSC	14	20	scoparium	3	
									Sporobolus		
07GR001	GR	С	12	2009	SPOCRY	SPCR	5	28	cryptandrus	3	
									Andropogon		
07GR001	GR	С	22	2009	ANDHAL	ANHA	0.5	55	hallii	3	
									Bouteloua		
07GR001	GR	С	22	2009	BOUHIR	BOHI2	3	12	hirsuta	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Evolvulus		
07GR001	GR	С	22	2009	EVOSER	EVSE	0.5	12	sericeus	4	
									Paspalum		
									setaceum var.		
07GR001	GR	С	22	2009	PASSETS	PASES	1	12	stramineum	3	
									Quercus		
07GR001	GR	С	22	2009	QUEHAV	QUHA3	1	47	havardii	2	
<b>_</b>									Schizachyrium	_	
07GR001	GR	С	22	2009	SCHSCO	SCSC	28	27	scoparium	3	
									Sporobolus	_	
07GR001	GR	С	22	2009	SPOCRY	SPCR	0.1	7	cryptandrus	3	
.=									Thelesperma		
07GR001	GR	С	22	2009	THEMEG	THME	0.1	50	megapotamicum	4	
07GR001	GR	С	22	2009	YUCGLA	YUGL	5	48	Yucca glauca	2	
070004	0.0		00	0000	ANIDITAL	A N II I A		00	Andropogon		
07GR001	GR	С	32	2009	ANDHAL	ANHA	3	60	hallii	3	
0700004	OD	С	20	0000	DOLIGIED	DOCLI	_	40	Bouteloua		
07GR001	GR	C	32	2009	BOUCUR	BOCU	3	18	curtipendula	3	
07GR001	GR	С	32	2009	BOUHIR	BOHI2	8	10	Bouteloua hirsuta	3	
U/GRUUT	GK	C	32	2009	BOUTIK	DOFFIZ	0	10	Commelina	3	
07GR001	GR	С	32	2009	COMERE	COER	0.1	9	erecta	4	
07 01(001	GIX	C	32	2003	COMERC	COLIN	0.1	3	Cryptantha	7	
07GR001	GR	С	32	2009	CRYCIN	CRCI3	0.1	18	cinerea	4	
07 011001	Ort		02	2000	ORTON	Citolo	0.1		Cyperus	•	
07GR001	GR	С	32	2009	CYPRET	CYRE14	0.1	10	retroflexus	3	
0.0.00.					0	<u> </u>	<b>V.</b> .		Eragrostis		
07GR001	GR	С	32	2009	ERASEC	ERSE	0.5	12	secundiflora	3	
						-			Evolvulus		
07GR001	GR	С	32	2009	EVOSER	EVSE	1	20	sericeus	4	
									Paspalum		
									setaceum var.		
07GR001	GR	С	32	2009	PASSETS	PASES	0.1	12	stramineum	3	
									Quercus		
07GR001	GR	С	32	2009	QUEHAV	QUHA3	17	30	havardii	2	
									Schizachyrium		
07GR001	GR	С	32	2009	SCHSCO	SCSC	20	35	scoparium	3	
07GR001	GR	С	32	2009	SPOCRY	SPCR	1	30	Sporobolus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									cryptandrus		
07GR001	GR	С	32	2009	XANSPI2	MAPI	2	25	Xanthisma spinulosum	4	
07GR001	GR	С	42	2009	ANDHAL	ANHA	0.5	35	Andropogon hallii	3	
07GR001	GR	С	42	2009	BOUCUR	BOCU	1	15	Bouteloua curtipendula	3	
07GR001	GR	С	42	2009	BOUHIR	BOHI2	6	7	Bouteloua hirsuta	3	
07GR001	GR	С	42	2009	LIAPUN	LIPU	1	15	Liatris punctata	4	
07GR001	GR	С	42	2009	PARJAM	PAJA	0.1	4	Paronychia jamesii	4	
07GR001	GR	С	42	2009	PASSETS	PASES	0.1	15	Paspalum setaceum var. stramineum	3	
07GR001	GR	С	42	2009	QUEHAV	QUHA3	7	35	Quercus havardii	2	
07GR001	GR	С	42	2009	SCHSCO	SCSC	29	25	Schizachyrium scoparium	3	
07GR001	GR	С	42	2009	SPOCRY	SPCR	1	30	Sporobolus cryptandrus	3	
07GR001	GR	D	2	2009	BOUHIR	BOHI2	2	8	Bouteloua hirsuta	3	
07GR001	GR	D	2	2009	COMERE	COER	0.1	15	Commelina erecta	4	
07GR001	GR	D	2	2009	DIGPUB	DIPU9	0.5	8	Digitaria pubiflora	3	
07GR001	GR	D	2	2009	EVOSER	EVSE	1	20	Evolvulus sericeus	4	
07GR001	GR	D	2	2009	HETVIL	HEVI4	1.5	15	Heterotheca villosa	4	
07GR001	GR	D	2	2009	LINRIGR	LIRIR	0.1	23	Linum rigidum var. rigidum	4	
07GR001	GR	D	2	2009	LITMUL	LIMU3	0.5	20	Lithospermum multiflorum	4	
07GR001	GR	D	2	2009	PASSETS	PASES	1	15	Paspalum setaceum var. stramineum	3	

07GR001         GR         D         2         2009         QUEHAV         QUHA3         17         24         havardii         2         towards north           07GR001         GR         D         2         2009         SCHSCO         SCSC         23         25         scoparium         3           3         Aranthisma         4         Andropogon         4         Andropogon         4           07GR001         GR         D         12         2009         ANDHAL         ANHA         0.5         40         halili         3           07GR001         GR         D         12         2009         ARIPUR         ARPU9         1         20         Purpurea         3           07GR001         GR         D         12         2009         BOUHIR         BOHI2         2         8         hirsuta         3           07GR001         GR         D         12         2009         BOUHIR         BOHI2         2         8         hirsuta         3           07GR001         GR         D         12         2009         BOUHIR         BOHI2         2         8         hirsuta         3           07GR001         GR<	PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
07GR001         GR         D         2         2009         SCHSCO         SCSC         23         25         Schizachyrium spinulosum spi										Quercus		read quads
07GR001         GR         D         2         2009         SCHSCO         SCSC         23         25         scoparium         3           07GR001         GR         D         2         2009         XANSPI2         MAPI         0.1         18         Spinulosum         4           07GR001         GR         D         12         2009         ANDHAL         ANHA         0.5         40         hallii         3           07GR001         GR         D         12         2009         ARIPUR         ARPU9         1         20         purpurea         3           07GR001         GR         D         12         2009         BOUHIR         BOHI2         2         8         hirsuta         3           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         Chamaesyce fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         recta         4           07GR001         GR         D         12         2009         PORDLE         CYRE14         0.1         15         retroflexus         <	07GR001	GR	D	2	2009	QUEHAV	QUHA3	17	24	havardii	2	towards north
07GR001         GR         D         2         2009         XANSPI2         MAPI         0.1         18         Xanthisma         4           07GR001         GR         D         12         2009         ANDHAL         ANHA         0.5         40         hallii         3           07GR001         GR         D         12         2009         ARIPUR         ARPU9         1         20         purpurea         3           07GR001         GR         D         12         2009         BOUHIR         BOHIZ         2         8         hirsuta         3           07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4         fendleri         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         retroflexus         3         Digitaria           07GR001         GR         D         12         2009         DIPU9         1         1         10         publifora         3         2           07GR001         GR         D         12         2009         HETVIL         HEVIA         1         15										Schizachyrium		
07GR001         GR         D         2         2009         XANSPI2         MAPI         0.1         18         spinulosum         4           07GR001         GR         D         12         2009         ANDHAL         ANHA         0.5         40         hallii         3           07GR001         GR         D         12         2009         ARIPUR         ARPU9         1         20         Aristida purpurea         3           07GR001         GR         D         12         2009         BOHIR         BOHIZ         2         8 hirsuta         3           07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4 fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         erecta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         Cyperus retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         pubiflora         3 <tr< td=""><td>07GR001</td><td>GR</td><td>D</td><td>2</td><td>2009</td><td>SCHSCO</td><td>SCSC</td><td>23</td><td>25</td><td>scoparium</td><td>3</td><td></td></tr<>	07GR001	GR	D	2	2009	SCHSCO	SCSC	23	25	scoparium	3	
07GR001         GR         D         12         2009         ANDHAL         ANHA         0.5         40         Andropogon halli         3           07GR001         GR         D         12         2009         ARIPUR         ARPU9         1         20         Purpurea         3           07GR001         GR         D         12         2009         BOUHIR         BOHI2         2         8         hirsuta         3           07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4         Chamaesyce fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         erecta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         retordlexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         Digitaria publificra publificra         3           07GR001         GR         D         12         2009         HETVIL         HEVIA         1         15										Xanthisma		
07GR001         GR         D         12         2009         ANDHAL         ANHA         0.5         40         hallii         3           07GR001         GR         D         12         2009         ARIPUR         ARPU9         1         20         purpurea         3           07GR001         GR         D         12         2009         BOUHIR         BOHI2         2         8         hirsuta         3           07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4         fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         erecta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         perceta         4           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         publifora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4     <	07GR001	GR	D	2	2009	XANSPI2	MAPI	0.1	18	spinulosum	4	
07GR001         GR         D         12         2009         ARIPUR         ARPU9         1         20         Aristida purpurea         3           07GR001         GR         D         12         2009         BOUHIR         BOHI2         2         8         hirsuta         3           07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4         fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         crecta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         pubrifora         3         Evolvulus         3         Evolvulus         4         Heterotheca         4         Paronychia										Andropogon		
07GR001         GR         D         12         2009         ARIPUR         ARPU9         1         20         purpurea         3           07GR001         GR         D         12         2009         BOHIR         BOHI2         2         8         hirsuta         3           07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4         fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         crecta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         pubiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVIA         1         15         reiroflexus         1 <td>07GR001</td> <td>GR</td> <td>D</td> <td>12</td> <td>2009</td> <td>ANDHAL</td> <td>ANHA</td> <td>0.5</td> <td>40</td> <td>hallii</td> <td>3</td> <td></td>	07GR001	GR	D	12	2009	ANDHAL	ANHA	0.5	40	hallii	3	
07GR001         GR         D         12         2009         BOUHIR         BOHI2         2         8 hirsuta         3           07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4 fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15 retroflexus         3           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15 retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10 pubiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         Evolvulus           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15 villosa         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10 jamesii         4           07GR001         GR         D         12         2009										Aristida		
07GR001         GR         D         12         2009         BOHIR         BOHI2         2         8         hirsuta         3           07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4         fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         erecta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         publiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           4         Heterotheca         0         Sericeus         4         Heterotheca         4         1         15         villosa         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4<	07GR001	GR	D	12	2009	ARIPUR	ARPU9	1	20		3	
07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4         Chamaesyce fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         erecta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         publiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii												
07GR001         GR         D         12         2009         CHAFEN         CHFE3         0.5         4         fendleri         4           07GR001         GR         D         12         2009         COMERE         COER         0.1         15         cercta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         pubiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4	07GR001	GR	D	12	2009	BOUHIR	BOHI2	2	8		3	
07GR001         GR         D         12         2009         COMERE         COER         0.1         15         cercta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         pubiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
07GR001         GR         D         12         2009         COMERE         COER         0.1         15         erecta         4           07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         erecta         4           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         publiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3	07GR001	GR	D	12	2009	CHAFEN	CHFE3	0.5	4		4	
07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         Cyperus retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         pubiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           Heterotheca         Heterotheca         Heterotheca         1         Linum rigidum         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PASJAM         PAJA         0.5         10         jamesii         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3           07GR001         GR												
07GR001         GR         D         12         2009         CYPRET         CYRE14         0.1         15         retroflexus         3           07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         publiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii	07GR001	GR	D	12	2009	COMERE	COER	0.1	15		4	
07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         pubiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3			_								_	
07GR001         GR         D         12         2009         DIGPUB         DIPU9         1         10         pubiflora         3           07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3	07GR001	GR	D	12	2009	CYPRET	CYRE14	0.1	15		3	
07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium <td>.=</td> <td></td> <td>_</td> <td></td> <td></td> <td>5.65.15</td> <td>DIDITO</td> <td></td> <td></td> <td></td> <td></td> <td></td>	.=		_			5.65.15	DIDITO					
07GR001         GR         D         12         2009         EVOSER         EVSE         0.5         10         sericeus         4           07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3	07GR001	GR	D	12	2009	DIGPUB	DIPU9	1	10		3	
07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           Paspalum setaceum var.         Paspalum setaceum var.         Setaceum var.         3         Quercus         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3           Sporobolus         Sporobolus         Sporobolus         3         Sporobolus         3	0700004	0.0	_	40	0000	EV/OOED	E) (OE	0.5	40			
07GR001         GR         D         12         2009         HETVIL         HEVI4         1         15         villosa         4           07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3	07GR001	GR	D	12	2009	EVOSER	EVSE	0.5	10		4	
07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3           Sporobolus	0700004	OD	_	40	0000	1157\/11	1151/14		4.5		4	
07GR001         GR         D         12         2009         LINRIGR         LIRIR         0.1         14         var. rigidum         4           07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           Paspalum setaceum var.         Paspalum setaceum var.         Setaceum var.         3         Quercus         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium sc	07GR001	GR	D	12	2009	HEIVIL	HEVI4	1	15		4	
07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           Paspalum setaceum var.         Paspalum setaceum var.         9         Paspalum setaceum var.         9         Quercus         1         8         9         Stramineum         3         1         9         Quercus         1         9         Paspalum setaceum var.         1         9         1         9         1         9         1	0700004	CD	_	40	2000	LINDICD	LIDID	0.4	4.4			
07GR001         GR         D         12         2009         PARJAM         PAJA         0.5         10         jamesii         4           Paspalum setaceum var.         Paspalum setaceum var.         3	07GR001	GR	D	12	2009	LINKIGK	LIKIK	0.1	14		4	
07GR001 GR         D         12 2009 PASSETS PASES         1 8 stramineum         3           07GR001 GR         D         12 2009 QUEHAV QUHA3         15 30 havardii         2           07GR001 GR         D         12 2009 SCHSCO         SCSC         17 20 scoparium         3           07GR001 GR         D         12 2009 SCHSCO         SCSC         17 20 scoparium         3           Sporobolus         Sporobolus         Sporobolus         3	0700004	CD	_	40	2000		DAIA	0.5	40			
07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum stram	07GR001	GR	ט	12	2009	PARJAIVI	PAJA	0.5	10	-	4	
07GR001         GR         D         12         2009         PASSETS         PASES         1         8         stramineum         3           07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3           Sporobolus         Sporobolus         Sporobolus         3         3         3         3												
07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3           Sporobolus         Sporobolus         Sporobolus         Sporobolus         3	07GP001	GP	D	12	2000	DASSETS	DVSES	1	Ω		2	
07GR001         GR         D         12         2009         QUEHAV         QUHA3         15         30         havardii         2           07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3           Sporobolus         Sporobolus         Sporobolus         Sporobolus         3	UI GROUT	GN	U	12	2009	FASSEIS	FASES	I	0		3	
07GR001 GR D 12 2009 SCHSCO SCSC 17 20 Schizachyrium 3 Sporobolus	07GR001	GR	D	12	2009	OUEHAV	ОПНАЗ	15	30	I Total	2	
07GR001         GR         D         12         2009         SCHSCO         SCSC         17         20         scoparium         3           Sporobolus         Sporobolus	07 011001	- GIX		12	2003	QULITAV	QUIIAU	13	30			
Sporobolus	07GR001	GR	D	12	2009	SCHSCO	SCSC	17	20		3	
	07 011001	JIX		14	2003	3011000	3000	17	20		3	
of occorriging to the property of the property	07GR001	GR	D	12	2009	SPOCRY	SPCR	4	20		3	
07GR001 GR D 12 2009 XANSPI2 MAPI 1 26 Xanthisma 4												

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			spinulosum		
									Andropogon		
07GR001	GR	D	22	2009	ANDHAL	ANHA	3	50	hallii	3	
									Aristida		
07GR001	GR	D	22	2009	ARIPUR	ARPU9	5	22	purpurea	3	
									Bouteloua		
07GR001	GR	D	22	2009	BOUHIR	BOHI2	5	13	hirsuta	3	
	_								Calylophus		
07GR001	GR	D	22	2009	CALSER	CASE12	0.5	17	serrulatus	4	
		_							Heterotheca		
07GR001	GR	D	22	2009	HETVIL	HEVI4	3	15	villosa	4	
0700004	0.0		00	0000	LINIDIOD	LIDID	0.5	47	Linum rigidum		
07GR001	GR	D	22	2009	LINRIGR	LIRIR	0.5	17	var. rigidum	4	
07GR001	GR	D	22	2009	MIRLIN	MILI3	0.1	6	Mirabilis linearis	4	
0700004	OD		00	0000	DADIAM	DA 14	_	40	Paronychia		
07GR001	GR	D	22	2009	PARJAM	PAJA	1	10	jamesii	4	
									Paspalum		
07GR001	GR	D	22	2009	PASSETS	PASES	0.1	10	setaceum var. stramineum	3	
07GR001	GR	D	22	2009	POMJAM	POJA5	0.1	15		4	
UIGRUUT	GR	ט		2009	POIVIJAIVI	POJAS	0.1	13	Pomaria jamesii Quercus	4	
07GR001	GR	D	22	2009	QUEHAV	QUHA3	6	26	havardii	2	
07 GIX001	GIX			2009	QULITAV	QUITAS	0	20	Schizachyrium		
07GR001	GR	D	22	2009	SCHSCO	SCSC	7	28	scoparium	3	
07 011001	OIX			2000	0011000	0000			Sporobolus		
07GR001	GR	D	22	2009	SPOCRY	SPCR	1	16	cryptandrus	3	
0. 0.1001		_			<u> </u>	J. J. (			Thelesperma		
07GR001	GR	D	22	2009	THEMEG	THME	0.5	57	megapotamicum	4	
	_				_				Bouteloua		
07GR001	GR	D	32	2009	BOUHIR	BOHI2	3	8	hirsuta	3	
									Cyperus		
07GR001	GR	D	32	2009	CYPRET	CYRE14	0.5	17	retroflexus	3	
									Eragrostis		
07GR001	GR	D	32	2009	ERASEC	ERSE	1	15	secundiflora	3	
									Evolvulus		
07GR001	GR	D	32	2009	EVOSER	EVSE	1	25	sericeus	4	
_									Heterotheca		
07GR001	GR	D	32	2009	HETVIL	HEVI4	0.1	10	villosa	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GR001	GR	D	32	2009	PASSETS	PASES	0.5	5	stramineum	3	
									Quercus		
07GR001	GR	D	32	2009	QUEHAV	QUHA3	12	26	havardii	2	
									Schizachyrium		
07GR001	GR	D	32	2009	SCHSCO	SCSC	27	35	scoparium	3	
									Xanthisma		
07GR001	GR	D	32	2009	XANSPI2	MAPI	0.1	24	spinulosum	4	
									Aristida		
07GR001	GR	D	42	2009	ARIPUR	ARPU9	2	22	purpurea	3	
									Bouteloua		
07GR001	GR	D	42	2009	BOUHIR	BOHI2	4	10	hirsuta	3	
									Chamaesyce		
07GR001	GR	D	42	2009	CHAFEN	CHFE3	0.1	4	fendleri	4	
									Commelina		
07GR001	GR	D	42	2009	COMERE	COER	0.5	25	erecta	4	
									Cryptantha		
07GR001	GR	D	42	2009	CRYCIN	CRCI3	0.5	20	cinerea	4	
									Eragrostis		
07GR001	GR	D	42	2009	ERASEC	ERSE	2	15	secundiflora	3	
									Hymenopappus		
									flavescens var.		
07GR001	GR	D	42	2009	HYMFLAC	HYFLC	0.1	5	canotomentosus	4	
	_								Paronychia		
07GR001	GR	D	42	2009	PARJAM	PAJA	0.1	5		4	
									Paspalum		
.=					5.00==0	54050			setaceum var.		
07GR001	GR	D	42	2009	PASSETS	PASES	2	10	stramineum	3	
0705001	0.0	_	40	0000	OLIELIAN,	0111140			Quercus		
07GR001	GR	D	42	2009	QUEHAV	QUHA3	12	30	havardii	2	
0700001	OD	_	40	0000	0011000	0000	000		Schizachyrium		
07GR001	GR	D	42	2009	SCHSCO	SCSC	33	23	scoparium	3	
0700004	OD	_	40	0000	CDCCDV	ODOD			Sporobolus		
07GR001	GR	D	42	2009	SPOCRY	SPCR	1	25	cryptandrus	3	
0700004	OD	_	40	0000	VANCOIC	MADI		00	Xanthisma		
07GR001	GR	D	42	2009	XANSPI2	MAPI	1	20	spinulosum	4	
07GR001	GR	E	2	2009	ANDHAL	ANHA	10	27	Andropogon	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									hallii		
									Bouteloua		
07GR001	GR	E	2	2009	BOUHIR	BOHI2	2	8	hirsuta	3	
									Calylophus		
07GR001	GR	E	2	2009	CALSER	CASE12	2	20	serrulatus	4	
									Evolvulus		
07GR001	GR	Е	2	2009	EVOSER	EVSE	1	12	sericeus	4	
_	_								Lithospermum		
07GR001	GR	E	2	2009	LITMUL	LIMU3	0.1	10	multiflorum	4	
									Paspalum		
0705004	0.5	_		0000	DAGGETO	D4050			setaceum var.		
07GR001	GR	Е	2	2009	PASSETS	PASES	2	9	stramineum	3	
070004	0.0	_		0000	OLIELIA)/	0111140	0.4	0.5	Quercus		read quads
07GR001	GR	Е	2	2009	QUEHAV	QUHA3	24	35	havardii	2	toward N.
0700004	OD	_		0000	0011000	0000	_	40	Schizachyrium		
07GR001	GR	Е	2	2009	SCHSCO	SCSC	1	10	scoparium	3	
07GR001	GR	E	2	2000	SPOCRY	SPCR		12	Sporobolus	_	
07GR001	GR	<u> </u>		2009	SPOCKY	SPCR	1	12		3	
07GR001	GR	E	2	2009	THEMEG	THME	0.5	45	Thelesperma megapotamicum	4	
07 GIXOUT	GIX	<u> </u>		2009	TTILIVILG	I I IIVIL	0.5	43	Xanthisma	4	
07GR001	GR	E	2	2009	XANSPI2	MAPI	0.1	14	spinulosum	4	
07 01(001	OIX			2003	AAINOI IZ	IVIZALI	0.1	17	Bouteloua	7	
07GR001	GR	E	12	2009	BOUHIR	BOHI2	8	5	hirsuta	3	
0.0.00.	O. C			2000	2001	201112			Calylophus		
07GR001	GR	E	12	2009	CALSER	CASE12	2	20	serrulatus	4	
									Digitaria		
07GR001	GR	E	12	2009	DIGPUB	DIPU9	1	13	pubiflora	3	
									Evolvulus		
07GR001	GR	E	12	2009	EVOSER	EVSE	0.5	12	sericeus	4	
									Paspalum		
									setaceum var.		
07GR001	GR	E	12	2009	PASSETS	PASES	4	10	stramineum	3	
									Quercus		
07GR001	GR	E	12	2009	QUEHAV	QUHA3	26	40	havardii	2	
									Schizachyrium		
07GR001	GR	E	12	2009	SCHSCO	SCSC	11	25	scoparium	3	
07GR001	GR	Е	12	2009	SPOCRY	SPCR	2	18	Sporobolus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									cryptandrus		
									Xanthisma		
07GR001	GR	E	12	2009	XANSPI2	MAPI	0.1	24	spinulosum	4	
									Bouteloua		
07GR001	GR	E	22	2009	BOUCUR	BOCU	0.1	10	curtipendula	3	
									Bouteloua		
07GR001	GR	E	22	2009	BOUHIR	BOHI2			hirsuta	3	
_									Bouteloua		
07GR001	GR	Е	22	2009	BOUHIR	BOHI2	3	8	hirsuta	3	
		_							Digitaria		
07GR001	GR	Е	22	2009	DIGPUB	DIPU9	2	14	pubiflora	3	
		_							Eragrostis		
07GR001	GR	Е	22	2009	ERASEC	ERSE	1	16	secundiflora	3	
0700004	0.0	_	00	0000	EVOCED	E)/0E	0.5	40	Evolvulus		
07GR001	GR	Е	22	2009	EVOSER	EVSE	0.5	13	sericeus	4	
0700004	OD	_	00	0000	1 1784111	LIMILIO	0.4	40	Lithospermum		
07GR001	GR	Е	22	2009	LITMUL	LIMU3	0.1	13	multiflorum	4	
									Paspalum		
07GR001	GR	Е	22	2009	PASSETS	PASES	4	10	setaceum var. stramineum	3	
U/GRUUT	GK	<u> </u>		2009	PASSEIS	PASES	4	10	Quercus	3	
07GR001	GR	Е	22	2009	QUEHAV	QUHA3	21	33	havardii	2	
07 GIXOUT	GIX	_ <b>L</b>		2009	QULITAV	QUITAS	21	33	Schizachyrium		
07GR001	GR	E	22	2009	SCHSCO	SCSC	18	25	scoparium	3	
07 011001	OIX	_		2000	0011000	0000	10	20	Sporobolus		
07GR001	GR	E	22	2009	SPOCRY	SPCR	1	22	cryptandrus	3	
07 011001	O. C	_		2000	0.00.	0. 0.0			Xanthisma		
07GR001	GR	E	22	2009	XANSPI2	MAPI	0.5	16	spinulosum	4	
									Andropogon		
07GR001	GR	E	32	2009	ANDHAL	ANHA	3	28	hallii	3	
									Aristida	-	
07GR001	GR	E	32	2009	ARIPUR	ARPU9	0.5	14	purpurea	3	
									Bouteloua		
07GR001	GR	E	32	2009	BOUHIR	BOHI2	2	8	hirsuta	3	
									Calylophus		
07GR001	GR	E	32	2009	CALSER	CASE12	1	17	serrulatus	4	
									Commelina		
07GR001	GR	E	32	2009	COMERE	COER	0.5	14	erecta	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Digitaria		
07GR001	GR	E	32	2009	DIGPUB	DIPU9	3	10	pubiflora	3	
									Paronychia		
07GR001	GR	E	32	2009	PARJAM	PAJA	0.1	3	jamesii	4	
									Paspalum		
									setaceum var.		
07GR001	GR	E	32	2009	PASSETS	PASES	2	6	stramineum	3	
									Quercus		
07GR001	GR	E	32	2009	QUEHAV	QUHA3	9	30	havardii	2	
									Schizachyrium		
07GR001	GR	E	32	2009	SCHSCO	SCSC	14	14	scoparium	3	
									Sporobolus		
07GR001	GR	E	32	2009	SPOCRY	SPCR	1	30	cryptandrus	3	
									Andropogon		
07GR001	GR	E	42	2009	ANDHAL	ANHA	3	50	hallii	3	
									Bouteloua		
07GR001	GR	E	42	2009	BOUCUR	BOCU	1	30	curtipendula	3	
									Bouteloua		
07GR001	GR	E	42	2009	BOUHIR	BOHI2	1	10	hirsuta	3	
									Calylophus		
07GR001	GR	E	42	2009	CALSER	CASE12	2	13	serrulatus	4	
									Chamaesyce		
07GR001	GR	E	42	2009	CHAFEN	CHFE3	0.5	3	fendleri	4	
									Commelina		
07GR001	GR	Е	42	2009	COMERE	COER	0.5	15	erecta	4	
									Cyperus		
07GR001	GR	E	42	2009	CYPRET	CYRE14	0.5	12		3	
									Paspalum		
		_							setaceum var.	_	
07GR001	GR	Е	42	2009	PASSETS	PASES	2	10	stramineum	3	
		_				0			Quercus		
07GR001	GR	Е	42	2009	QUEHAV	QUHA3	21	40	havardii	2	
		_			0011000	2000			Schizachyrium		
07GR001	GR	Е	42	2009	SCHSCO	SCSC	12	18	scoparium	3	
070500:	0.0	_		0000	000000	0000			Sporobolus		
07GR001	GR	Е	42	2009	SPOCRY	SPCR	2	25	cryptandrus	3	
		_							Xanthisma		
07GR001	GR	E	42	2009	XANSPI2	MAPI	0.5	16	spinulosum	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
07GR001	GR	E	42	2009	YUCGLA	YUGL	7	56	Yucca glauca	2	
									Andropogon		
07GR001	GR	F	2	2009	ANDHAL	ANHA	1	32	hallii	3	
<b>_</b>			_						Bouteloua	_	
07GR001	GR	F	2	2009	BOUCUR	BOCU	1	8	curtipendula	3	
0705004	0.0	_		0000	50111115	DOLUG			Bouteloua		
07GR001	GR	F	2	2009	BOUHIR	BOHI2	3	8	hirsuta	3	
070001	GR	F	2	2000	CALSER	CASE12	2	4.4	Calylophus	4	
07GR001	GR	Г	2	2009	CALSER	CASE12		14	serrulatus Paspalum	4	
									setaceum var.		
07GR001	GR	F	2	2009	PASSETS	PASES	1	10	stramineum	3	
07 01(001	OIX	•		2003	TAGGETO	TAGEO		10	Quercus	J	
07GR001	GR	F	2	2009	QUEHAV	QUHA3	3	21	havardii	2	
0.0.00.	- Oix	•		2000	Q02.77	Q011110			Schizachyrium	_	
07GR001	GR	F	2	2009	SCHSCO	SCSC	32	25	scoparium	3	
									Sporobolus		
07GR001	GR	F	2	2009	SPOCRY	SPCR	1	26	cryptandrus	3	
											read quads
07GR001	GR	F	2	2009	YUCGLA	YUGL	5	42	Yucca glauca	2	towards north
									Andropogon		
07GR001	GR	F	12	2009	ANDHAL	ANHA	3	45	hallii	3	
<b>_</b>							_		Bouteloua	_	
07GR001	GR	F	12	2009	BOUHIR	BOHI2	4	10	hirsuta	3	
0705004	0.0	_	4.0	0000	041.055	040540		4.0	Calylophus		
07GR001	GR	F	12	2009	CALSER	CASE12	0.5	12	serrulatus	4	
0700004	GR	F	40	0000	CLIACLY	CHGL13	0.4	_	Chamaesyce	4	
07GR001	GR	Г	12	2009	CHAGLY	CHGL13	0.1	5	glyptosperma Commelina	4	
07GR001	GR	F	12	2009	COMERE	COER	0.1	8	erecta	4	
U/GRUUT	GN	<u> </u>	12	2009	COMERE	COER	0.1	0	Cyperus	4	
07GR001	GR	F	12	2009	CYPRET	CYRE14	1	8	retroflexus	3	
37 311001	JIX.	•	12	2000	O I I I I I	JIKEIT	1	U	Eragrostis	3	
07GR001	GR	F	12	2009	ERASEC	ERSE	0.5	7	secundiflora	3	
22 2.1031							0.0		Paspalum		
									setaceum var.		
07GR001	GR	F	12	2009	PASSETS	PASES	3	8	stramineum	3	
07GR001	GR	F	12	2009	QUEHAV	QUHA3	16	35	Quercus	2	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									havardii		
									Schizachyrium		
07GR001	GR	F	12	2009	SCHSCO	SCSC	17	21	scoparium	3	
									Sporobolus		
07GR001	GR	F	12	2009	SPOCRY	SPCR	1	20	cryptandrus	3	
									Bouteloua		
07GR001	GR	F	22	2009	BOUHIR	BOHI2	2	8	hirsuta	3	
	_								Evolvulus		
07GR001	GR	F	22	2009	EVOSER	EVSE	0.5	20	sericeus	4	
07GR001	GR	F	22	2009	GAUVIL	GAVI2	0.5	27	Gaura villosa	4	
					_				Linum rigidum		
07GR001	GR	F	22	2009	LINRIGR	LIRIR	0.1	20	var. rigidum	4	
									Paronychia		
07GR001	GR	F	22	2009	PARJAM	PAJA	0.5	5	jamesii	4	
									Paspalum		
0705004	0.0	_	-00	0000	DAGGETO	D. 050			setaceum var.		
07GR001	GR	F	22	2009	PASSETS	PASES	3	14	stramineum	3	
0705004	0.0	_	-00	0000	011511417	0111140			Quercus		
07GR001	GR	F	22	2009	QUEHAV	QUHA3	4	30	havardii	2	
0700004	0.0	_	00	0000	0011000	0000	00	0.4	Schizachyrium		
07GR001	GR	F	22	2009	SCHSCO	SCSC	26	21	scoparium	3	
0700004	OD	_	00	0000	CDCCDV	ODOD	0.5	00	Sporobolus		
07GR001	GR	F	22	2009	SPOCRY	SPCR	0.5	20	cryptandrus Xanthisma	3	
070004	GR	F	20	2000	VANCDIO	MAPI	0.4	4.5			
07GR001	GR	Г	22	2009	XANSPI2	IVIAPI	0.1	15	spinulosum	4	
07GR001	GR	F	32	2009	ANDHAL	ANHA	2	20	Andropogon hallii	3	
U/GRUUT	GK	<u> </u>	32	2009	ANDHAL	ANTA		20	Aristida	3	
07GR001	GR	F	32	2009	ARIPUR	ARPU9	1	13	purpurea	3	
07 GIXOUT	GIX	I	32	2009	AIXIFUIX	AINFUS	ı	13	Bouteloua	3	
07GR001	GR	F	32	2009	BOUHIR	BOHI2	4	10	hirsuta	3	
57 GIX001	- Six	1	52	2003	DOUTHIN	DOTTIZ	7	10	Calylophus	3	
07GR001	GR	F	32	2009	CALSER	CASE12	0.5	16	serrulatus	4	
37 311001	J.C	•	52	2000	J, LOLIX	J/ (OL 12	0.5	10	Commelina		
07GR001	GR	F	32	2009	COMERE	COER	0.5	6	erecta	4	
5. 5. (55)					33	32.1	0.0		Digitaria	· ·	
07GR001	GR	F	32	2009	DIGPUB	DIPU9	1	12	pubiflora	3	
07GR001	GR	F	32	2009	ERASEC	ERSE	1	11	Eragrostis	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									secundiflora		
									Linum rigidum		
07GR001	GR	F	32	2009	LINRIGR	LIRIR	0.1	19	var. rigidum	4	
									Paspalum		
									setaceum var.		
07GR001	GR	F	32	2009	PASSETS	PASES	1	8	stramineum	3	
									Quercus		
07GR001	GR	F	32	2009	QUEHAV	QUHA3	10	35	havardii	2	
									Schizachyrium		
07GR001	GR	F	32	2009	SCHSCO	SCSC	15	20	scoparium	3	
									Sporobolus		
07GR001	GR	F	32	2009	SPOCRY	SPCR	0.5	12		3	
									Xanthisma		
07GR001	GR	F	32	2009	XANSPI2	MAPI	0.1	19	spinulosum	4	
									Ambrosia		
07GR001	GR	F	42	2009	AMBPSI	AMPS	0.1	8	psilostachya	4	
									Andropogon		
07GR001	GR	F	42	2009	ANDHAL	ANHA	13	48	hallii	3	
		_					_		Bouteloua		
07GR001	GR	F	42	2009	BOUHIR	BOHI2	1	9	hirsuta	3	
		_							Calylophus		
07GR001	GR	F	42	2009	CALSER	CASE12	1	25	serrulatus	4	
0705004	0.5	_	40	0000	E) (00ED	E) (OE			Evolvulus		
07GR001	GR	F	42	2009	EVOSER	EVSE	1	20	sericeus	4	
0700004	0.0	_	40	0000	1155		0.5		Heterotheca		
07GR001	GR	F	42	2009	HETVIL	HEVI4	0.5	14	villosa	4	
0700004	OD	_	40	0000	DADIAM	DAIA	0.5		Paronychia	4	
07GR001	GR	F	42	2009	PARJAM	PAJA	0.5	9	jamesii	4	
									Paspalum		
07GR001	GR	F	42	2009	PASSETS	PASES	2	14	setaceum var. stramineum	3	
U/GRUUT	GK	Γ	42	2009	FASSE1S	PASES		14	Quercus	3	
07GR001	GR	F	42	2009	QUEHAV	QUHA3	16	45	havardii	2	
UIGRUUT	GK	Г	42	2009	QUENAV	QUIAS	10	45	Schizachyrium		
07GR001	GR	F	42	2009	SCHSCO	SCSC	12	25	scoparium	3	
U/GRUUT	GN	I	42	2009	301300	3030	12	23	Sporobolus	3	
07GR001	GR	F	42	2009	SPOCRY	SPCR	2	28	cryptandrus	3	
07GR001	GR	F	42	2009	XANSPI2	MAPI	0.5	13	Xanthisma	4	
UIGRUUT	GK	Г	42	2009	AANSPIZ	IVIAPI	0.5	13	Adulusina	4	

Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
								spinulosum		
GR	G	2	2009	ANDHAL	ANHA	1	45	Andropogon hallii	3	
GR	G	2	2009	BOUCUR	BOCU	1	12	curtipendula	3	
GR	G	2	2009	BOUHIR	BOHI2	2	12	hirsuta	3	
GR	G	2	2009	CALSER	CASE12	0.5	16	serrulatus	4	
GR	G	2	2009	COMERE	COER	0.1	10	erecta	4	
GR	G	2	2009	CYPRET	CYRE14	0.5	20	retroflexus	3	
GR	G	2	2009	DIGPUB	DIPU9	2	9	pubiflora	3	
GR	G	2	2009	LECMUC	LEMU3	2	20	mucronata	4	
GR	G	2	2009	PARJAM	PAJA	0.1	6	jamesii	4	
GR	G	2	2009	PASSETS	PASES	4	11	Paspalum setaceum var. stramineum	3	
GR	G	2	2009	PSITAG	PSTA	0.1	5	Psilostrophe tagetina	4	
GR	G	2	2009	QUEHAV	QUHA3	11	30	havardii	2	read quads towards north
GR	G	2	2009	SCHSCO	SCSC	27	35	scoparium	3	
GR	G	2	2009	SPOCRY	SPCR	3	30	cryptandrus	3	
GR	G	12	2009	BOUHIR	BOHI2	12	10	hirsuta	3	
GR	G	12	2009	CALSER	CASE12	0.5	25	serrulatus	4	
CP	G	10	2000	DACCETO	DASES	4	10	setaceum var.	2	
	GR G	GR G	GR G 2 GR G 12 GR G 12 GR G 12	GR G 2 2009 GR G 12 2009 GR G 12 2009 GR G 12 2009	GR G 2 2009 ANDHAL GR G 2 2009 BOUCUR GR G 2 2009 BOUHIR GR G 2 2009 CALSER GR G 2 2009 COMERE GR G 2 2009 CYPRET GR G 2 2009 DIGPUB GR G 2 2009 LECMUC GR G 2 2009 PARJAM GR G 2 2009 PASSETS GR G 2 2009 PSITAG GR G 2 2009 GUEHAV GR G 2 2009 SCHSCO GR G 12 2009 BOUHIR GR G 12 2009 BOUHIR GR G 12 2009 CALSER	GR G 2 2009 ANDHAL ANHA GR G 2 2009 BOUCUR BOCU GR G 2 2009 BOUHIR BOHI2 GR G 2 2009 CALSER CASE12 GR G 2 2009 COMERE COER GR G 2 2009 CYPRET CYRE14 GR G 2 2009 DIGPUB DIPU9 GR G 2 2009 LECMUC LEMU3 GR G 2 2009 PARJAM PAJA  GR G 2 2009 PASSETS PASES GR G 2 2009 SCHSCO SCSC GR G 2 2009 SPOCRY SPCR GR G 12 2009 BOUHIR BOHI2 GR G 12 2009 CALSER CASE12	GR G 2 2009 ANDHAL ANHA 1 GR G 2 2009 BOUCUR BOCU 1 GR G 2 2009 BOUHIR BOHI2 2 GR G 2 2009 CALSER CASE12 0.5 GR G 2 2009 CYPRET CYRE14 0.5 GR G 2 2009 DIGPUB DIPU9 2 GR G 2 2009 LECMUC LEMU3 2 GR G 2 2009 PARJAM PAJA 0.1 GR G 2 2009 PASSETS PASES 4 GR G 2 2009 QUEHAV QUHA3 11 GR G 2 2009 SCHSCO SCSC 27 GR G 12 2009 BOUHIR BOHI2 12 GR G G 12 2009 BOUHIR BOHI2 12 GR G G 12 2009 BOUHIR BOHI2 12 GR G G 12 2009 CALSER CASE12 0.5	GR G 2 2009 ANDHAL ANHA 1 45 GR G 2 2009 BOUCUR BOCU 1 12 GR G 2 2009 BOUHIR BOHI2 2 12 GR G 2 2009 CALSER CASE12 0.5 16 GR G 2 2009 COMERE COER 0.1 10 GR G 2 2009 CYPRET CYRE14 0.5 20 GR G 2 2009 DIGPUB DIPU9 2 9 GR G 2 2009 LECMUC LEMU3 2 20 GR G 2 2009 PARJAM PAJA 0.1 6 GR G 2 2009 PASSETS PASES 4 11 GR G 2 2009 PSITAG PSTA 0.1 5 GR G 2 2009 GUEHAV QUHA3 11 30 GR G 2 2009 SCHSCO SCSC 27 35 GR G 12 2009 BOUHIR BOHI2 12 10 GR G 12 2009 BOUHIR BOHI2 12 10 GR G 12 2009 CALSER CASE12 0.5 25	GR         G         2         2009         ANDHAL         ANHA         1         45 hallii         Andropogon Andropogon Andropogon Andropogon Andropogon hallii         Bouteloua Curtipendula Bouteloua Bouteloua         Bouteloua Curtipendula Bouteloua Bouteloua Bouteloua Bouteloua Bouteloua Curtipendula         Calylophus Serentiatus         Calylophus Serentiatus         Calylophus Serentiatus         Commelina	GR G 2 2009 ANDHAL ANHA 1 45 Andilli 3 3 Bouteloua 3 Bouteloua 3 Bouteloua 4 Andropogon Andropogon Andropogon 3 Bouteloua 3 Bouteloua 3 Bouteloua 3 Bouteloua 4 Bouteloua 4 Bouteloua 5 Bouteloua 6 Bouteloua 6 Bouteloua 7 Bouteloua 8 Bouteloua 7 Bouteloua 8 Bouteloua 8 Bouteloua 8 Bouteloua 8 Bouteloua 9 Bouteloua 9 Bouteloua 9 Bouteloua 9 Bouteloua 9 Bouteloua 9 Bouteloua 1 Bouteloua 1 Bouteloua 1 Bouteloua 1 Bouteloua 1 Bouteloua 1 Bouteloua 3 Bouteloua 1 Bo

Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
								havardii		
								Schizachyrium		
GR	G	12	2009	SCHSCO	SCSC	23	20	scoparium	3	
								Sporobolus		
GR	G	12	2009	SPOCRY	SPCR	2	15	cryptandrus	3	
GR	G	22	2009	ANDHAL	ANHA	5	35		3	
									_	
GR	G	22	2009	BOUCUR	BOCU	0.5	15		3	
0.5				50111115	501110					
GR	G	22	2009	BOUHIR	BOHI2	0.5	10	1	3	
CD.		22	2000	COMEDE	COED	0.4	4.5		4	
GR	G	22	2009	COMERE	COER	0.1	15		4	
CB		22	2000	1 1714111	LIMILIS	2	10			
GK	G		2009	LITIVIOL	LIIVIUS		12		4	
GR	G	22	2000	PARIAM	ΡΔΙΔ	2	ρ		4	
GIX	<u> </u>		2009	FAINDAIVI	ΓΛυΛ		0		4	
GR	G	22	2009	PASSETS	PASES	2	20		3	
								1		
GR	G	22	2009	QUEHAV	QUHA3	16	35	havardii	2	
								Schizachyrium		
GR	G	22	2009	SCHSCO	SCSC	44	30	scoparium	3	
								Sporobolus		
GR	G	22	2009	SPOCRY	SPCR	2	30	cryptandrus	3	
								Andropogon		
GR	G	32	2009	ANDHAL	ANHA	3	60		3	
GR	G	32	2009	ARIPUR	ARPU9	0.5	10		3	
0.5		0.0	0000	DO11011E	50011		4.0			
GR	G	32	2009	ROUCUR	ROCO	1	10		3	
CD.		20	2000	DOLULID.	DOLUG	4	40			
GK	G	32	∠009	BOUHIK	DUNIZ	4	10	1	3	
GP	G	30	2000	CHAEEN	CHEE3	0.1	ာ			
GN	G	32	2009	CHAFEIN	OHES	0.1	<u> </u>		4	
GR	G	32	2009	COMERE	COER	0.1	12		4	
	GR GR GR GR GR GR GR GR	GR G	GR       G       12         GR       G       22         GR       G       32         GR       G       32	GR       G       12       2009         GR       G       22       2009         GR       G       32       2009	GR         G         12         2009         SPOCRY           GR         G         22         2009         ANDHAL           GR         G         22         2009         BOUCUR           GR         G         22         2009         BOUHIR           GR         G         22         2009         BOUHIR           GR         G         22         2009         COMERE           GR         G         22         2009         LITMUL           GR         G         22         2009         PARJAM           GR         G         22         2009         PASSETS           GR         G         22         2009         QUEHAV           GR         G         22         2009         SCHSCO           GR         G         22         2009         SPOCRY           GR         G         32         2009         ANDHAL           GR         G         32         2009         BOUCUR           GR         G         32         2009         BOUHIR           GR         G         32         2009         BOUHIR           GR         G <td< td=""><td>GR         G         12         2009         SPOCRY         SPCR           GR         G         22         2009         ANDHAL         ANHA           GR         G         22         2009         BOUCUR         BOCU           GR         G         22         2009         BOUHIR         BOHI2           GR         G         22         2009         COMERE         COER           GR         G         22         2009         LITMUL         LIMU3           GR         G         22         2009         PARJAM         PAJA           GR         G         22         2009         PASSETS         PASES           GR         G         22         2009         QUEHAV         QUHA3           GR         G         22         2009         SPOCRY         SPCR           GR         G         32         2009         SPOCRY         SPCR           GR         G         32         2009         ANDHAL         ANHA           GR         G         32         2009         BOUCUR         BOCU           GR         G         32         2009         BOUHIR         BOHI2</td><td>GR         G         12         2009         SPOCRY         SPCR         2           GR         G         22         2009         ANDHAL         ANHA         5           GR         G         22         2009         BOUCUR         BOCU         0.5           GR         G         22         2009         BOUHIR         BOHI2         0.5           GR         G         22         2009         COMERE         COER         0.1           GR         G         22         2009         LITMUL         LIMU3         2           GR         G         22         2009         PARSETS         PASES         2           GR         G         22         2009         PASSETS         PASES         2           GR         G         22         2009         QUEHAV         QUHA3         16           GR         G         22         2009         SCHSCO         SCSC         44           GR         G         22         2009         SPOCRY         SPCR         2           GR         G         32         2009         ANDHAL         ANHA         3           GR         G</td><td>GR         G         12         2009         SPOCRY         SPCR         2         15           GR         G         22         2009         ANDHAL         ANHA         5         35           GR         G         22         2009         BOUCUR         BOCU         0.5         15           GR         G         22         2009         BOUHIR         BOHI2         0.5         10           GR         G         22         2009         BOUHIR         BOHI2         0.5         10           GR         G         22         2009         COMERE         COER         0.1         15           GR         G         22         2009         LITMUL         LIMU3         2         12           GR         G         22         2009         PARJAM         PAJA         2         8           GR         G         22         2009         PASSETS         PASES         2         20           GR         G         22         2009         SCHSCO         SCSC         44         30           GR         G         32         2009         SPOCRY         SPCR         2         30     <!--</td--><td>GR         G         12         2009         SPOCRY         SPCR         2         15         Sporobolus cryptandrus Andropogon Bouldia           GR         G         22         2009         BOUCUR         BOCU         0.5         15         curtipendula Bouteloua Curtipendula           GR         G         22         2009         BOUHIR         BOHI2         0.5         10         hirsuta           GR         G         22         2009         BOUHIR         BOHI2         0.5         10         hirsuta           Commelina erecta erecta         Commelina erecta         Lithospermum Lithospermum Miliforum         Commelina erecta         Lithospermum Miliforum         Paronychia jamesii         paronychia jamesii         paspalum setaceum var. stramineum         Paspalum setaceum var. stramineum         Quercus Audropogon Quercus         Quercus Schizachyrium Schizachyrium Schizachyrium Scoparium         Schizachyrium Schizachyrium Schizachyrium Scoparium         Schizachyrium Schizachy</td><td>GR         G         12         2009         SCHSCO         SCSC         23         20         scoparium         3           GR         G         12         2009         SPOCRY         SPCR         2         15         Sporobolus         3           GR         G         22         2009         ANDHAL         ANHA         5         35         hallii         3           GR         G         22         2009         BOUCUR         BOCU         0.5         15         curtipendula         3           BOR         G         22         2009         BOUHIR         BOHIZ         0.5         10         hirsuta         3           GR         G         22         2009         COMERE         COER         0.1         15         cerecta         4           GR         G         22         2009         COMERE         COER         0.1         15         perecta         4           GR         G         22         2009         PARJAM         PAJA         2         8         jamesii         4           GR         G         22         2009         PARJAM         PASES         2         20         SChiz</td></td></td<>	GR         G         12         2009         SPOCRY         SPCR           GR         G         22         2009         ANDHAL         ANHA           GR         G         22         2009         BOUCUR         BOCU           GR         G         22         2009         BOUHIR         BOHI2           GR         G         22         2009         COMERE         COER           GR         G         22         2009         LITMUL         LIMU3           GR         G         22         2009         PARJAM         PAJA           GR         G         22         2009         PASSETS         PASES           GR         G         22         2009         QUEHAV         QUHA3           GR         G         22         2009         SPOCRY         SPCR           GR         G         32         2009         SPOCRY         SPCR           GR         G         32         2009         ANDHAL         ANHA           GR         G         32         2009         BOUCUR         BOCU           GR         G         32         2009         BOUHIR         BOHI2	GR         G         12         2009         SPOCRY         SPCR         2           GR         G         22         2009         ANDHAL         ANHA         5           GR         G         22         2009         BOUCUR         BOCU         0.5           GR         G         22         2009         BOUHIR         BOHI2         0.5           GR         G         22         2009         COMERE         COER         0.1           GR         G         22         2009         LITMUL         LIMU3         2           GR         G         22         2009         PARSETS         PASES         2           GR         G         22         2009         PASSETS         PASES         2           GR         G         22         2009         QUEHAV         QUHA3         16           GR         G         22         2009         SCHSCO         SCSC         44           GR         G         22         2009         SPOCRY         SPCR         2           GR         G         32         2009         ANDHAL         ANHA         3           GR         G	GR         G         12         2009         SPOCRY         SPCR         2         15           GR         G         22         2009         ANDHAL         ANHA         5         35           GR         G         22         2009         BOUCUR         BOCU         0.5         15           GR         G         22         2009         BOUHIR         BOHI2         0.5         10           GR         G         22         2009         BOUHIR         BOHI2         0.5         10           GR         G         22         2009         COMERE         COER         0.1         15           GR         G         22         2009         LITMUL         LIMU3         2         12           GR         G         22         2009         PARJAM         PAJA         2         8           GR         G         22         2009         PASSETS         PASES         2         20           GR         G         22         2009         SCHSCO         SCSC         44         30           GR         G         32         2009         SPOCRY         SPCR         2         30 </td <td>GR         G         12         2009         SPOCRY         SPCR         2         15         Sporobolus cryptandrus Andropogon Bouldia           GR         G         22         2009         BOUCUR         BOCU         0.5         15         curtipendula Bouteloua Curtipendula           GR         G         22         2009         BOUHIR         BOHI2         0.5         10         hirsuta           GR         G         22         2009         BOUHIR         BOHI2         0.5         10         hirsuta           Commelina erecta erecta         Commelina erecta         Lithospermum Lithospermum Miliforum         Commelina erecta         Lithospermum Miliforum         Paronychia jamesii         paronychia jamesii         paspalum setaceum var. stramineum         Paspalum setaceum var. stramineum         Quercus Audropogon Quercus         Quercus Schizachyrium Schizachyrium Schizachyrium Scoparium         Schizachyrium Schizachyrium Schizachyrium Scoparium         Schizachyrium Schizachy</td> <td>GR         G         12         2009         SCHSCO         SCSC         23         20         scoparium         3           GR         G         12         2009         SPOCRY         SPCR         2         15         Sporobolus         3           GR         G         22         2009         ANDHAL         ANHA         5         35         hallii         3           GR         G         22         2009         BOUCUR         BOCU         0.5         15         curtipendula         3           BOR         G         22         2009         BOUHIR         BOHIZ         0.5         10         hirsuta         3           GR         G         22         2009         COMERE         COER         0.1         15         cerecta         4           GR         G         22         2009         COMERE         COER         0.1         15         perecta         4           GR         G         22         2009         PARJAM         PAJA         2         8         jamesii         4           GR         G         22         2009         PARJAM         PASES         2         20         SChiz</td>	GR         G         12         2009         SPOCRY         SPCR         2         15         Sporobolus cryptandrus Andropogon Bouldia           GR         G         22         2009         BOUCUR         BOCU         0.5         15         curtipendula Bouteloua Curtipendula           GR         G         22         2009         BOUHIR         BOHI2         0.5         10         hirsuta           GR         G         22         2009         BOUHIR         BOHI2         0.5         10         hirsuta           Commelina erecta erecta         Commelina erecta         Lithospermum Lithospermum Miliforum         Commelina erecta         Lithospermum Miliforum         Paronychia jamesii         paronychia jamesii         paspalum setaceum var. stramineum         Paspalum setaceum var. stramineum         Quercus Audropogon Quercus         Quercus Schizachyrium Schizachyrium Schizachyrium Scoparium         Schizachyrium Schizachyrium Schizachyrium Scoparium         Schizachyrium Schizachy	GR         G         12         2009         SCHSCO         SCSC         23         20         scoparium         3           GR         G         12         2009         SPOCRY         SPCR         2         15         Sporobolus         3           GR         G         22         2009         ANDHAL         ANHA         5         35         hallii         3           GR         G         22         2009         BOUCUR         BOCU         0.5         15         curtipendula         3           BOR         G         22         2009         BOUHIR         BOHIZ         0.5         10         hirsuta         3           GR         G         22         2009         COMERE         COER         0.1         15         cerecta         4           GR         G         22         2009         COMERE         COER         0.1         15         perecta         4           GR         G         22         2009         PARJAM         PAJA         2         8         jamesii         4           GR         G         22         2009         PARJAM         PASES         2         20         SChiz

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						,			Digitaria		
07GR001	GR	G	32	2009	DIGPUB	DIPU9	0.5	15	pubiflora	3	
									Paronychia		
07GR001	GR	G	32	2009	PARJAM	PAJA	0.1	6	jamesii	4	
									Paspalum		
									setaceum var.		
07GR001	GR	G	32	2009	PASSETS	PASES	3	15	stramineum	3	
									Quercus		
07GR001	GR	G	32	2009	QUEHAV	QUHA3	4	45	havardii	2	
									Schizachyrium		
07GR001	GR	G	32	2009	SCHSCO	SCSC	45	30	scoparium	3	
									Thelesperma		
07GR001	GR	G	32	2009	THEMEG	THME	0.1	42	megapotamicum	4	
07GR001	GR	G	32	2009	YUCGLA	YUGL	7	50	Yucca glauca	2	
									Andropogon		
07GR001	GR	G	42	2009	ANDHAL	ANHA	2	35	hallii	3	
									Bouteloua		
07GR001	GR	G	42	2009	BOUHIR	BOHI2	2	8	hirsuta	3	
									Commelina		
07GR001	GR	G	42	2009	COMERE	COER	0.1	11	erecta	4	
									Eragrostis		
07GR001	GR	G	42	2009	ERASEC	ERSE	1	13	secundiflora	3	
									Heterotheca		
07GR001	GR	G	42	2009	HETVIL	HEVI4	2	10	villosa	4	
									Lechea		
07GR001	GR	G	42	2009	LECMUC	LEMU3	0.5	3	mucronata	4	
									Paronychia		
07GR001	GR	G	42	2009	PARJAM	PAJA	0.1	18	jamesii	4	
									Paspalum		
									setaceum var.		
07GR001	GR	G	42	2009	PASSETS	PASES	1	15	stramineum	3	
									Quercus		
07GR001	GR	G	42	2009	QUEHAV	QUHA3	6	28	havardii	2	
									Schizachyrium		
07GR001	GR	G	42	2009	SCHSCO	SCSC	32	20	scoparium	3	
									Sporobolus		
07GR001	GR	G	42	2009	SPOCRY	SPCR	1	18	cryptandrus	3	
07GR001	GR	G	42	2009	THEMEG	THME	0.5	60	Thelesperma	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									megapotamicum		
07GR001	GR	G	42	2009	XANSPI2	MAPI	0.5	20	Xanthisma spinulosum	4	
07GR001	GR	Н	2	2009	BOUHIR	BOHI2	2	8	Bouteloua hirsuta	3	
07GR001	GR	Н	2	2009	CALSER	CASE12	0.5	20	Calylophus serrulatus	4	
07GR001	GR	Н	2	2009	COMUMBP	COUMP	1	15	Comandra umbellata ssp. pallida	4	
07GR001	GR	Н	2	2009	ERASEC	ERSE	1	20	Eragrostis secundiflora	3	
07GR001	GR	Н	2	2009	PARJAM	PAJA	0.5	9	Paronychia jamesii	4	
07GR001	GR	Н	2	2009	PASSETS	PASES	1	10	Paspalum setaceum var. stramineum	3	
07GR001	GR	Н	2	2009	PSITAG	PSTA	1	18	Psilostrophe tagetina	4	
07GR001	GR	Н	2	2009	QUEHAV	QUHA3	10	26	Quercus havardii	2	read quads towards north
07GR001	GR	Н	2	2009	SCHSCO	SCSC	33	25	Schizachyrium scoparium	3	
07GR001	GR	Н	2	2009	SPOCRY	SPCR	2	25	Sporobolus cryptandrus	3	
07GR001	GR	Н	2	2009	THEMEG	THME	0.1	32	Thelesperma megapotamicum	4	
07GR001	GR	Н	12	2009	ANDHAL	ANHA	1	40	Andropogon hallii	3	
07GR001	GR	Н	12	2009	BOUHIR	BOHI2	5	9	Bouteloua hirsuta	3	
07GR001	GR	Н	12	2009	CALSER	CASE12	0.1	14		4	
07GR001	GR	Н	12	2009	COMUMBP	COUMP	0.5	11	Comandra umbellata ssp. pallida	4	
07GR001	GR	Н	12	2009	COMERE	COER	0.1	20	Commelina erecta	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
07GR001	GR	Н	12	2009	DALPUR	DAPU5	0.1	13	Dalea purpurea	4	
									Eragrostis		
07GR001	GR	Н	12	2009	ERASEC	ERSE	2	22	secundiflora	3	
									Lithospermum		
07GR001	GR	Н	12	2009	LITMUL	LIMU3	0.1	20	multiflorum	4	
									Paronychia		
07GR001	GR	Н	12	2009	PARJAM	PAJA	0.1	7	jamesii	4	
									Paspalum		
									setaceum var.		
07GR001	GR	Н	12	2009	PASSETS	PASES	1	12	stramineum	3	
									Quercus		
07GR001	GR	Н	12	2009	QUEHAV	QUHA3	9	23	havardii	2	
									Schizachyrium		
07GR001	GR	Н	12	2009	SCHSCO	SCSC	37	30	scoparium	3	
									Sporobolus		
07GR001	GR	Н	12	2009	SPOCRY	SPCR	0.5	8	cryptandrus	3	
									Andropogon		
07GR001	GR	Н	22	2009	ANDHAL	ANHA	29	55	hallii	3	
									Bouteloua		
07GR001	GR	Н	22	2009	BOUCUR	BOCU	1	7	curtipendula	3	
									Bouteloua		
07GR001	GR	Н	22	2009	BOUHIR	BOHI2	1	8	hirsuta	3	
									Calylophus		
07GR001	GR	Н	22	2009	CALSER	CASE12	0.5	23	serrulatus	4	
07GR001	GR	Н	22	2009	DALPUR	DAPU5	0.1	8	Dalea purpurea	4	
									Eragrostis		
07GR001	GR	Н	22	2009	ERASEC	ERSE	1	18	secundiflora	3	
									Paronychia		
07GR001	GR	Н	22	2009	PARJAM	PAJA	0.1	8	jamesii	4	
									Paspalum		
									setaceum var.		
07GR001	GR	Н	22	2009	PASSETS	PASES	2	18	stramineum	3	
									Quercus		
07GR001	GR	Н	22	2009	QUEHAV	QUHA3	6	28	havardii	2	
									Schizachyrium		
07GR001	GR	Н	22	2009	SCHSCO	SCSC	16	25	scoparium	3	
									Andropogon		
07GR001	GR	Н	32	2009	ANDHAL	ANHA	0.5	55	hallii	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Bouteloua		
07GR001	GR	H	32	2009	BOUHIR	BOHI2	5	10	hirsuta	3	
									Comandra		
									umbellata ssp.		
07GR001	GR	Н	32	2009	COMUMBP	COUMP	0.5	6	pallida	4	
									Commelina		
07GR001	GR	Н	32	2009	COMERE	COER	0.1	6	erecta	4	
						2./			Cyperus		
07GR001	GR	Н	32	2009	CYPRET	CYRE14	0.1	12	retroflexus	3	
.=									Eragrostis		
07GR001	GR	Н	32	2009	ERASEC	ERSE	1	14	secundiflora	3	
07GR001	GR	Н	32	2009	GAUVIL	GAVI2	0.1	15	Gaura villosa	4	
0700004	0.0		00	0000	LINDIOD	LIDID	0.4	00	Linum rigidum		
07GR001	GR	Н	32	2009	LINRIGR	LIRIR	0.1	26	var. rigidum	4	
									Paspalum		
07GR001	GR	Н	32	2009	PASSETS	PASES	_	15	setaceum var. stramineum	3	
07GR001	GR	П	32	2009	PASSETS	PASES	5	15	Quercus	3	
07GR001	GR	Н	32	2009	QUEHAV	QUHA3	2	30	havardii	2	
07 GIXOUT	GIX	11	32	2009	QULITAV	QUIIAS		30	Schizachyrium		
07GR001	GR	Н	32	2009	SCHSCO	scsc	27	30	scoparium	3	
07 011001	OIX		02	2000	0011000	0000		- 00	Aristida		
07GR001	GR	Н	42	2009	ARIPUR	ARPU9	1	20	purpurea	3	
									Bouteloua		
07GR001	GR	Н	42	2009	BOUHIR	BOHI2	5	10	hirsuta	3	
									Chamaesyce		
07GR001	GR	Н	42	2009	CHAGLY	CHGL13	0.1	1	glyptosperma	4	
									Comandra		
									umbellata ssp.		
07GR001	GR	Н	42	2009	COMUMBP	COUMP	0.5	15	pallida	4	
									Commelina		
07GR001	GR	Н	42	2009	COMERE	COER	0.1	15	erecta	4	
<b></b>									Eragrostis		
07GR001	GR	Н	42	2009	ERASEC	ERSE	2	15	secundiflora	3	
070500:	0.5			0000	OLITO: 5	011046			Gutierrezia		
07GR001	GR	Н	42	2009	GUTSAR	GUSA2	1	25	sarothrae	2.5	
070001	OD		40	0000	LEONALIO	LEMILO	2.5		Lechea		
07GR001	GR	Н	42	2009	LECMUC	LEMU3	0.5	20	mucronata	4	

	GR GR	Н	42						NMSpName		
		Н	40						Lithospermum		
07GR001 G	GR		42	2009	LITMUL	LIMU3	0.1	5	multiflorum	4	
07GR001 G	GR								Paronychia		
		Н	42	2009	PARJAM	PAJA	1	7	jamesii	4	
									Paspalum		
									setaceum var.		
07GR001 G	GR	Н	42	2009	PASSETS	PASES	4	10	stramineum	3	
									Schizachyrium		
07GR001 G	GR	Н	42	2009	SCHSCO	SCSC	22	35	scoparium	3	
									Sporobolus		
07GR001 G	GR	Н	42	2009	SPOCRY	SPCR	1	30	cryptandrus	3	
									Xanthisma		
07GR001 G	GR	Н	42	2009	XANSPI2	MAPI	0.1	8	spinulosum	4	
									Xanthisma		
<u></u>   <u>.</u>									texanum ssp.		
07GR001 G	GR	Н	42	2009	XANTEXD	XATED2	0.1	10	drummondii	4	
			_					_	Ambrosia		
07GY001 G	GY	Α	2	2009	AMBPSI	AMPS	0.1	7	psilostachya	4	
070)/004	0)/			0000	ANIDITAL	A N II I A	•	40	Andropogon		
07GY001 G	GY	Α	2	2009	ANDHAL	ANHA	3	43	hallii	3	
070)/004	0)/			0000	DOLIGIED	DOOLL		4-	Bouteloua		
07GY001 G	GY	Α	2	2009	BOUCUR	BOCU	1	15	curtipendula	3	
070)/004	0.7			0000	DOLUUD	DOLUG	4.4		Bouteloua		
07GY001 G	GY	Α	2	2009	BOUHIR	BOHI2	14	8	hirsuta	3	
07GY001 G	GY	^	2	2009	CHAFEN	CHFE3	0.1	3	Chamaesyce fendleri	4	
	GY	A	2	2009	DALPUR	DAPU5	0.1	7		4	
0/G 1001 G	GY	А		2009	DALPUR	DAPUS	0.5	1	Dalea purpurea Froelichia	4	
0700001	GY	^	2	2000	EDOCDA	FRGR3	0.4	9	gracilis	4	
07GY001 G	Gĭ	Α	2	2009	FROGRA	rkuks	0.1	9		4	
07GY001 G	GY	Α	2	2009	PARJAM	PAJA	1	5	Paronychia jamesii	4	
0/61001 6	GI	^		2009	L.WLAWIN	FAJA	I	ິ	Paspalum	4	
									setaceum var.		
07GY001 G	GY	Α	2	2009	PASSETS	PASES	5	14	stramineum	3	
0,01001 0	<u> </u>	П		2003	TAGGETG	1 AGEG	<u> </u>	17	Quercus	3	read quads
07GY001 G	GY	Α	2	2009	QUEHAV	QUHA3	2	18	havardii	2	towards north
0,01001	<u> </u>	/ \		2009	QUEITAV	QUITAU		10	Schizachyrium		towards north
07GY001 G	GY	Α	2	2009	SCHSCO	SCSC	14	22	scoparium	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Xanthisma		
07GY001	GY	Α	2	2009	XANSPI2	MAPI	0.1	15	spinulosum	4	
									Andropogon		
07GY001	GY	Α	12	2009	ANDHAL	ANHA	4	50	hallii	3	
									Aristida		
07GY001	GY	Α	12	2009	ARIPUR	ARPU9	0.5	8	purpurea	3	
									Bouteloua		
07GY001	GY	Α	12	2009	BOUHIR	BOHI2	10	10	hirsuta	3	
									Calylophus		
07GY001	GY	Α	12	2009	CALSER	CASE12	2	12	serrulatus	4	
									Commelina		
07GY001	GY	Α	12	2009	COMERE	COER	0.1	8	erecta	4	
07GY001	GY	Α	12	2009	DALPUR	DAPU5	2	30	Dalea purpurea	4	
									Digitaria		
07GY001	GY	Α	12	2009	DIGPUB	DIPU9	0.5	8	pubiflora	3	
									Paspalum		
									setaceum var.		
07GY001	GY	Α	12	2009	PASSETS	PASES	1	13	stramineum	3	
					_				Quercus		
07GY001	GY	Α	12	2009	QUEHAV	QUHA3	5	20	havardii	2	
<b>_</b>		_							Schizachyrium	_	
07GY001	GY	Α	12	2009	SCHSCO	SCSC	15	22	scoparium	3	
0-01/004	0)./				00000	0000			Sporobolus		
07GY001	GY	Α	12	2009	SPOCRY	SPCR	0.5	12	cryptandrus	3	
070)/004	0)/		40	0000	VANODIO	MADI	0.4	0.4	Xanthisma		
07GY001	GY	Α	12	2009	XANSPI2	MAPI	0.1	24	spinulosum	4	
070)/004	0)/		00	0000	ANIBULAL	A B II I A		70	Andropogon		
07GY001	GY	Α	22	2009	ANDHAL	ANHA	2	70	hallii Aristida	3	
070001	CV	_	22	2000	V DIDI ID	ADDITO	4	20			
07GY001	GY	Α	22	2009	ARIPUR	ARPU9	1	20	purpurea Bouteloua	3	
07GY001	GY	Α	22	2009	BOUCUR	BOCU	2	18	curtipendula	3	
0/61001	Gī	Α		2009	BOUCUR	ВОСО		10	Bouteloua	3	
07GY001	GY	Α	22	2009	BOUHIR	BOHI2	8	10	hirsuta	3	
07 G 1001	01	Λ		2003	DOO! IIIX	DOTTIZ	0	10	Commelina	3	
07GY001	GY	Α	22	2009	COMERE	COER	0.5	10	erecta	4	
0701001		/ \		2003	COMERCE	JOLIN	0.0	10	Digitaria	7	
07GY001	GY	Α	22	2009	DIGPUB	DIPU9	7	18	pubiflora	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Heterotheca		
07GY001	GY	Α	22	2009	HETVIL	HEVI4	1.5	18	villosa	4	
									Lithospermum		
07GY001	GY	Α	22	2009	LITMUL	LIMU3	1	12	multiflorum	4	
									Paspalum		
									setaceum var.		
07GY001	GY	Α	22	2009	PASSETS	PASES	5	12	stramineum	3	
									Quercus		
07GY001	GY	Α	22	2009	QUEHAV	QUHA3	7	40	havardii	2	
									Schizachyrium		
07GY001	GY	Α	22	2009	SCHSCO	SCSC	16	25	scoparium	3	
									Sporobolus		
07GY001	GY	Α	22	2009	SPOCRY	SPCR	1	25	cryptandrus	3	
		_							Thelesperma		
07GY001	GY	Α	22	2009	THEMEG	THME	0.1	40	megapotamicum	4	
		_					_		Aristida	_	
07GY001	GY	Α	32	2009	ARIPUR	ARPU9	3	20	purpurea	3	
		_							Bouteloua	_	
07GY001	GY	Α	32	2009	BOUHIR	BOHI2	12	10	hirsuta	3	
070)/00/	0)/				041.055	0.10=10			Calylophus		
07GY001	GY	Α	32	2009	CALSER	CASE12	0.5	12	serrulatus	4	
070)/004	0)/			0000	DIODUD	DIDLIO	4.0	4-	Digitaria		
07GY001	GY	Α	32	2009	DIGPUB	DIPU9	16	15	pubiflora	3	
07GY001	GY	Α	32	2009	GAUVIL	GAVI2	0.5	14	Gaura villosa	4	
									Hymenopappus		
0-01/00/	0)/								flavescens var.		
07GY001	GY	Α	32	2009	HYMFLAC	HYFLC	0.5	10	canotomentosus	4	
									Paspalum		
070)/004	0)/	_	20	0000	DACCETO	DACEC	_	40	setaceum var.		
07GY001	GY	Α	32	2009	PASSETS	PASES	7	12	stramineum	3	
070)/004	0)/		00	0000	0011000	0000		00	Schizachyrium		
07GY001	GY	Α	32	2009	SCHSCO	SCSC	8	32	scoparium	3	
070004	CV	_	20	2000	CDOCDY	CDCD		200	Sporobolus		
07GY001	GY	Α	32	2009	SPOCRY	SPCR	2	20	cryptandrus	3	
070004	CV	_	20	2000	THEMES	TUNAC	0.5	20	Thelesperma		
07GY001	GY	Α	32	2009	THEMEG	THME	0.5	30	megapotamicum	4	
0701/004	CV	_	20	2000	VANCOIO	MADI		40	Xanthisma	_	
07GY001	GY	Α	32	2009	XANSPI2	MAPI	0.1	18	spinulosum	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Ambrosia		
07GY001	GY	Α	42	2009	AMBPSI	AMPS	0.5	27	psilostachya	4	
									Aristida		
07GY001	GY	Α	42	2009	ARIPUR	ARPU9	4	12	purpurea	3	
									Bouteloua		
07GY001	GY	Α	42	2009	BOUCUR	BOCU	4	20	curtipendula	3	
									Bouteloua		
07GY001	GY	Α	42	2009	BOUHIR	BOHI2	7	7	hirsuta	3	
									Cryptantha		
07GY001	GY	Α	42	2009	CRYCIN	CRCI3	0.1	15	cinerea	4	
									Digitaria		
07GY001	GY	Α	42	2009	DIGPUB	DIPU9	2	15	pubiflora	3	
									Evolvulus		
07GY001	GY	Α	42	2009	EVOSER	EVSE	2	17	sericeus	4	
									Heterotheca		
07GY001	GY	Α	42	2009	HETVIL	HEVI4	1	16	villosa	4	
									Paronychia		
07GY001	GY	Α	42	2009	PARJAM	PAJA	1	5	jamesii	4	
									Paspalum		
									setaceum var.		
07GY001	GY	Α	42	2009	PASSETS	PASES	2	10	stramineum	3	
									Quercus		
07GY001	GY	Α	42	2009	QUEHAV	QUHA3	8	35	havardii	2	
									Schizachyrium		
07GY001	GY	Α	42	2009	SCHSCO	SCSC	7	25	scoparium	3	
									Sporobolus		
07GY001	GY	Α	42	2009	SPOCRY	SPCR	5	20	cryptandrus	3	
									Thelesperma		
07GY001	GY	Α	42	2009	THEMEG	THME	1	50	megapotamicum	4	
<b>_</b>					<b></b>				Xanthisma		
07GY001	GY	Α	42	2009	XANSPI2	MAPI	0.1	20	spinulosum	4	
		_	_						Ambrosia		
07GY001	GY	В	2	2009	AMBPSI	AMPS	1	25	psilostachya	4	
	0),						_		Andropogon		
07GY001	GY	В	2	2009	ANDHAL	ANHA	8	55	hallii	3	
			_						Aristida		
07GY001	GY	В	2	2009	ARIPUR	ARPU9	1	18	purpurea	3	
07GY001	GY	В	2	2009	BOUCUR	BOCU	1	10	Bouteloua	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									curtipendula		
									Bouteloua		
07GY001	GY	В	2	2009	BOUHIR	BOHI2	6	10	hirsuta	3	
									Comandra		
									umbellata ssp.		
07GY001	GY	В	2	2009	COMUMBP	COUMP	0.5	8	pallida	4	
									Commelina		
07GY001	GY	В	2	2009	COMERE	COER	0.5	12	erecta	4	
		_				2./			Cyperus		
07GY001	GY	В	2	2009	CYPRET	CYRE14	0.5	8	retroflexus	3	
07GY001	GY	В	2	2009	GAUVIL	GAVI2	0.1	15	Gaura villosa	4	
									Paspalum		
070)/004	0)/	_		0000	DAGGETO	DAGEG		4-	setaceum var.		
07GY001	GY	В	2	2009	PASSETS	PASES	3	15	stramineum	3	
07GY001	GY	В	2	2009	POMJAM	POJA5	0.5	18	Pomaria jamesii	4	
070\/004	0)/	_		0000	OLIELIA)/	0111140		00	Quercus		read quads
07GY001	GY	В	2	2009	QUEHAV	QUHA3	8	60	havardii	2	towards north
070)/004	0)/	_		0000	0011000	0000	4.4	20	Schizachyrium		
07GY001	GY	В	2	2009	SCHSCO	SCSC	14	30	scoparium	3	
07GY001	GY	В	2	2009	SPOCRY	SPCR	3	25	Sporobolus	3	
0761001	Gī	Ь		2009	SPUCKI	SPUR	3	25	cryptandrus Thelesperma	3	
07GY001	GY	В	2	2009	THEMEG	THME	0.5	60	megapotamicum	4	
07 G 1001	Gi	В		2009	TTILIVILG	I I IIVIL	0.5	00	Xanthisma		
07GY001	GY	В	2	2009	XANSPI2	MAPI	0.5	18	spinulosum	4	
0701001	0.			2000	70 11 12	1417 (1 1	0.0		Aristida		
07GY001	GY	В	12	2009	ARIPUR	ARPU9	1	8	purpurea	3	
0.0.00					7.1.1.1	7 00			Bouteloua		
07GY001	GY	В	12	2009	BOUHIR	BOHI2	12	10	hirsuta	3	
									Cyperus		
07GY001	GY	В	12	2009	CYPRET	CYRE14	0.1	8	retroflexus	3	
07GY001	GY	В	12	2009	DALPUR	DAPU5	0.1	4	Dalea purpurea	4	
									Eragrostis		
07GY001	GY	В	12	2009	ERASEC	ERSE	0.5	15	secundiflora	3	
									Evolvulus		
07GY001	GY	В	12	2009	EVOSER	EVSE	0.1	5	sericeus	4	
									Paspalum		
07GY001	GY	В	12	2009	PASSETS	PASES	1	10	setaceum var.	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									stramineum		
07GY001	GY	В	12	2009	POMJAM	POJA5	0.1	15	Pomaria jamesii	4	
07GY001	GY	В	12	2009	QUEHAV	QUHA3	2	40	Quercus havardii	2	
									Schizachyrium		
07GY001	GY	В	12	2009	SCHSCO	SCSC	23	25	scoparium	3	
07GY001	GY	В	12	2009	SPOCRY	SPCR	2	18	Sporobolus cryptandrus	3	
									Thelesperma		
07GY001	GY	В	12	2009	THEMEG	THME	0.5	65	megapotamicum	4	
07GY001	GY	В	22	2009	ANDHAL	ANHA	1	30	Andropogon hallii	3	
07GY001	GY	В	22	2009	BOUCUR	BOCU	1	20	Bouteloua curtipendula	3	
									Bouteloua		
07GY001	GY	В	22	2009	BOUHIR	BOHI2	7	12	hirsuta	3	
07GY001	GY	В	22	2009	CALSER	CASE12	0.5	20	Calylophus serrulatus	4	
07GY001	GY	В	22	2009	CYPRET	CYRE14	1	13	Cyperus retroflexus	3	
07GY001	GY	В	22	2009	GAUVIL	GAVI2	0.1	16	Gaura villosa	4	
07GY001	GY	В	22	2009	HYMFLAC	HYFLC	0.1	5	Hymenopappus flavescens var. canotomentosus	4	
07GY001	GY	В	22	2009	PASSETS	PASES	1	8	Paspalum setaceum var. stramineum	3	
07GY001	GY	В	22	2009	QUEHAV	QUHA3	12	50	Quercus havardii	2	
07GY001	GY	В	22	2009	SCHSCO	SCSC	38	25	Schizachyrium scoparium	3	
07GY001	GY	В	22	2009	SPOCRY	SPCR	1	20	Sporobolus cryptandrus	3	
07GY001	GY	В	22	2009	THEMEG	THME	0.5	65	Thelesperma megapotamicum	4	
									Andropogon		
07GY001	GY	В	32	2009	ANDHAL	ANHA	1	40	hallii	3	
07GY001	GY	В	32	2009	BOUHIR	BOHI2	2	8	Bouteloua	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									hirsuta		
									Calylophus		
07GY001	GY	В	32	2009	CALSER	CASE12	2	20	serrulatus	4	
									Commelina		
07GY001	GY	В	32	2009	COMERE	COER	0.5	10	erecta	4	
									Eragrostis		
07GY001	GY	В	32	2009	ERASEC	ERSE	1	17	secundiflora	3	
									Evolvulus		
07GY001	GY	В	32	2009	EVOSER	EVSE	0.1	8	sericeus	4	
<b>_</b>		_							Froelichia	_	
07GY001	GY	В	32	2009	FROGRA	FRGR3	0.1	30	gracilis	4	
0=0\(100.4	0.4								Melampodium		
07GY001	GY	В	32	2009	MELLEU	MELE2	1	17	leucanthum	4	
									Paspalum		
070)/004	0)/	_	20	0000	DACCETO	DACEC	_	40	setaceum var.		
07GY001	GY	В	32	2009	PASSETS	PASES	3	12	stramineum	3	
07GY001	GY	В	20	2000	QUEHAV	QUHA3	_	0.7	Quercus	2	
076 1001	GY	В	32	2009	QUEHAV	QUHA3	2	27	havardii	2	
07GY001	GY	В	32	2009	SCHSCO	scsc	23	25	Schizachyrium scoparium	3	
0761001	Gi	Ь	32	2009	3011300	3030	23	25	Sporobolus	3	
07GY001	GY	В	32	2009	SPOCRY	SPCR	2	25	cryptandrus	3	
0701001	01	В	52	2003	31 OOK1	OI OIX		20	Thelesperma	3	
07GY001	GY	В	32	2009	THEMEG	THME	0.1	45	megapotamicum	4	
07GY001	GY	В	32	2009	YUCGLA	YUGL	30	40	Yucca glauca	2	
0701001	01		02	2000	TOOGLA	TOOL	- 00	70	Aristida		
07GY001	GY	В	42	2009	ARIPUR	ARPU9	1	8	purpurea	3	
0.0.00		_			7.1.1.1. 0.1.	7			Bouteloua		
07GY001	GY	В	42	2009	BOUCUR	BOCU	2	20	curtipendula	3	
		_							Bouteloua	_	
07GY001	GY	В	42	2009	BOUHIR	BOHI2	2	10	hirsuta	3	
									Calylophus	-	
07GY001	GY	В	42	2009	CALSER	CASE12	0.5	28	serrulatus	4	
07GY001	GY	В	42	2009	DALPUR	DAPU5	0.1	11	Dalea purpurea	4	
									Evolvulus		
07GY001	GY	В	42	2009	EVOSER	EVSE	0.1	16	sericeus	4	
									Heterotheca		
07GY001	GY	В	42	2009	HETVIL	HEVI4	0.5	12	villosa	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paronychia		
07GY001	GY	В	42	2009	PARJAM	PAJA	2	6	jamesii	4	
									Paspalum		
									setaceum var.		
07GY001	GY	В	42	2009	PASSETS	PASES	2	12	stramineum	3	
07GY001	GY	В	42	2009	POMJAM	POJA5	0.5	16	Pomaria jamesii	4	
									Quercus		
07GY001	GY	В	42	2009	QUEHAV	QUHA3	1	30	havardii	2	
									Schizachyrium		
07GY001	GY	В	42	2009	SCHSCO	SCSC	38	30	scoparium	3	
									Sporobolus		
07GY001	GY	В	42	2009	SPOCRY	SPCR	1	12	cryptandrus	3	
									Thelesperma		
07GY001	GY	В	42	2009	THEMEG	THME	0.1	20	megapotamicum	4	
									Aristida		
07GY001	GY	С	2	2009	ARIPUR	ARPU9	20	3	purpurea	3	
		_							Bouteloua		
07GY001	GY	С	2	2009	BOUCUR	BOCU	1	8	curtipendula	3	
0=0)(00)	0)./				50111115	501110			Bouteloua		
07GY001	GY	С	2	2009	BOUHIR	BOHI2	1	12	1	3	
070)(004	0)/			0000	0)/DDET	0)/DE44		4-	Cyperus		
07GY001	GY	С	2	2009	CYPRET	CYRE14	0.5	15	retroflexus	3	
07GY001	GY	С	2	2009	DALPUR	DAPU5	0.1	8	Dalea purpurea	4	
070\/004	0)/			0000	DIODUD	DIDLIO	0.5	40	Digitaria		
07GY001	GY	С	2	2009	DIGPUB	DIPU9	0.5	10		3	
07GY001	GY	С	2	2009	ERASEC	ERSE	20	1	Eragrostis secundiflora	3	
07GY001	GY	C	2	2009	GAUVIL	GAVI2	0.1	13	Gaura villosa	4	
0761001	Gī	C		2009	GAUVIL	GAVIZ	0.1	13	Paspalum	4	
									setaceum var.		
07GY001	GY	С	2	2009	PASSETS	PASES	1	12	stramineum	3	
0,01001	01			2009	TAGGETG	171020		12	Quercus	3	
07GY001	GY	С	2	2009	QUEHAV	QUHA3	5	35	havardii	2	
2. 2. 201						23.11.10		- 55	Schizachyrium		
07GY001	GY	С	2	2009	SCHSCO	SCSC	26	35	scoparium	3	
									Sporobolus		
07GY001	GY	С	2	2009	SPOCRY	SPCR	1	30	cryptandrus	3	
07GY001	GY	С	2	2009	YUCGLA	YUGL	1	45	Yucca glauca	2	read quads

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									•		towards north
									Andropogon		
07GY001	GY	С	12	2009	ANDHAL	ANHA	2	64	hallii	3	
									Aristida		
07GY001	GY	С	12	2009	ARIPUR	ARPU9	3	18	purpurea	3	
									Bouteloua		
07GY001	GY	С	12	2009	BOUHIR	BOHI2	3	8	hirsuta	3	
									Commelina		
07GY001	GY	С	12	2009	COMERE	COER	1	20	erecta	4	
									Eragrostis		
07GY001	GY	С	12	2009	ERASEC	ERSE	1	20	secundiflora	3	
									Paspalum		
									setaceum var.		
07GY001	GY	С	12	2009	PASSETS	PASES	1	14	stramineum	3	
07GY001	GY	С	12	2009	POMJAM	POJA5	0.1	7	Pomaria jamesii	4	
									Quercus		
07GY001	GY	С	12	2009	QUEHAV	QUHA3	13	30	havardii	2	
									Schizachyrium		
07GY001	GY	С	12	2009	SCHSCO	SCSC	30	25	scoparium	3	
									Sporobolus		
07GY001	GY	С	12	2009	SPOCRY	SPCR	1	25	cryptandrus	3	
									Xanthisma		
07GY001	GY	С	12	2009	XANSPI2	MAPI	0.5	23	spinulosum	4	
070)(004	0).								Ambrosia		
07GY001	GY	С	22	2009	AMBPSI	AMPS	0.1	18	psilostachya	4	
0701/004	0)/		00	0000	ADIDUD	A D D L IO	0.5	40	Aristida		
07GY001	GY	С	22	2009	ARIPUR	ARPU9	0.5	12	purpurea	3	
									Bothriochloa		
07GY001	GY	С	22	2009	BOTLAGT	BOLAT	3	30	laguroides ssp.	3	
0761001	Gï	U		2009	DUILAGI	DULAT	3	30	torreyana Bouteloua	3	
07GY001	GY	С	22	2009	BOUHIR	BOHI2	13	10	hirsuta	3	
0761001	G i	U		2009	BOURIK	ВОПІZ	13	10	Commelina	3	
07GY001	GY	С	22	2009	COMERE	COER	0.5	8	erecta	4	
0/01001	O I			2009	COMILITE	JOLIN	0.5	U	Eragrostis	4	
07GY001	GY	С	22	2009	ERASES	ERSE2	1.5	16	sessilispica	3	
07GY001	GY	C	22	2009	GAUVIL	GAVI2	0.1	15	Gaura villosa	4	
07GY001	GY	С	22	2009	PARJAM	PAJA	0.1	6		4	
0761001	Gï	U		2009	FARJAW	FAJA	U. I	ט	Paronychia	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									jamesii		
07GY001	GY	С	22	2009	PASSETS	PASES	2	11	Paspalum setaceum var. stramineum	3	
0701001	01	0		2003	TAGGETO	TAGEO			Quercus	3	
07GY001	GY	С	22	2009	QUEHAV	QUHA3	8	30	havardii	2	
07GY001	GY	С	22	2009	SCHSCO	SCSC	12	22	Schizachyrium scoparium	3	
07GY001	GY	С	22	2009	SPOCRY	SPCR	1	15	Sporobolus cryptandrus	3	
07GY001	GY	С	22	2009	THEMEG	THME	0.1	8	Thelesperma megapotamicum	4	
07GY001	GY	С	22	2009	YUCGLA	YUGL	2	50	Yucca glauca	2	
07GY001	GY	С	32	2009	ARIPUR	ARPU9	2	15	Aristida purpurea	3	
07GY001	GY	С	32	2009	BOUHIR	BOHI2	8	8	Bouteloua hirsuta	3	
07GY001	GY	С	32	2009	CALSER	CASE12	0.5	18	Calylophus serrulatus	4	
07GY001	GY	С	32	2009	CHAFEN	CHFE3	0.1	3	Chamaesyce fendleri	4	
07GY001	GY	С	32	2009	COMERE	COER	0.5	15	Commelina erecta	4	
07GY001	GY	С	32	2009	ERASEC	ERSE	2	18	Eragrostis secundiflora	3	
07GY001	GY GY	С	32	2009	PARJAM	PAJA	0.1	5	Paronychia jamesii	4	
07GY001	GY	С	32	2009	PASSETS	PASES	2	10	Paspalum setaceum var. stramineum	3	
07GY001	GY GY	С	32	2009	QUEHAV	QUHA3	7	25	Quercus havardii	2	
07GY001	GY GY	С	32	2009	SCHSCO	SCSC	15	38	Schizachyrium scoparium	3	
07GY001	GY	С	32	2009	SPOCRY	SPCR	0.5	15	Sporobolus	3	
07GY001	GY	С	42	2009	AMBPSI	AMPS	0.1	21	Ambrosia psilostachya	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Aristida		
07GY001	GY	С	42	2009	ARIPUR	ARPU9	2	14	purpurea	3	
									Bouteloua		
07GY001	GY	С	42	2009	BOUCUR	BOCU	1	12	curtipendula	3	
									Bouteloua		
07GY001	GY	С	42	2009	BOUHIR	BOHI2	6	8	hirsuta	3	
									Calylophus		
07GY001	GY	С	42	2009	CALSER	CASE12	0.5	10	serrulatus	4	
									Chamaesyce		
07GY001	GY	С	42	2009	CHAFEN	CHFE3	0.1	2	fendleri	4	
									Commelina		
07GY001	GY	С	42	2009	COMERE	COER	0.5	5	erecta	4	
									Cryptantha		
07GY001	GY	С	42	2009	CRYCIN	CRCI3	0.1	12	cinerea	4	
									Cyperus		
07GY001	GY	С	42	2009	CYPRET	CYRE14	0.1	8	retroflexus	3	
									Dalea nana var.		
07GY001	GY	С	42	2009	DALNANN	DANAN	1	14	nana	4	
07GY001	GY	С	42	2009	DALPUR	DAPU5	0.1	7	Dalea purpurea	4	
									Eragrostis		
07GY001	GY	С	42	2009	ERASEC	ERSE	5	17	secundiflora	3	
									Evolvulus		
07GY001	GY	С	42	2009	EVOSER	EVSE	0.5	6	sericeus	4	
<b>_</b>		_							Heterotheca		
07GY001	GY	С	42	2009	HETVIL	HEVI4	0.5	10	villosa	4	
<b>_</b>		_							Lithospermum		
07GY001	GY	С	42	2009	LITMUL	LIMU3	0.1	11	multiflorum	4	
								_	Paronychia		
07GY001	GY	С	42	2009	PARJAM	PAJA	0.1	4	jamesii	4	
									Paspalum		
070)/064	01/		40	0000	DAGOETO	DAGEO		_	setaceum var.		
07GY001	GY	С	42	2009	PASSETS	PASES	2	7	stramineum	3	
070)/064	01/		40	0000	OLIELIA),		_	0.5	Quercus		
07GY001	GY	С	42	2009	QUEHAV	QUHA3	5	25	havardii	2	
070)/004	CV		40	2022	COLICOO	0000	4-	00	Schizachyrium		
07GY001	GY	С	42	2009	SCHSCO	SCSC	15	20	scoparium	3	
070)/004	CV		40	2000	CDOCDY	CDCD		4.5	Sporobolus		
07GY001	GY	С	42	2009	SPOCRY	SPCR	1	15	cryptandrus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Thelesperma		
07GY001	GY	С	42	2009	THEMEG	THME	1	45	megapotamicum	4	
									Ambrosia		
07GY001	GY	D	2	2009	AMBPSI	AMPS	0.5	13	psilostachya	4	
									Bouteloua		
07GY001	GY	D	2	2009	BOUCUR	BOCU	3	20	curtipendula	3	
									Bouteloua		
07GY001	GY	D	2	2009	BOUHIR	BOHI2	15	12	hirsuta	3	
		_	_					_	Chloris	_	
07GY001	GY	D	2	2009	CHLVER	CHVE2	1	8	verticillata	3	
		_							Commelina	_	
07GY001	GY	D	2	2009	COMERE	COER	0.5	10	erecta	4	
070)/004	0)/	_		0000	0)/DDET	0)/DE44		4-	Cyperus		
07GY001	GY	D	2	2009	CYPRET	CYRE14	0.5	15	retroflexus	3	
070)/004	01/			0000	ED A OF O	EDOE		00	Eragrostis		
07GY001	GY	D	2	2009	ERASEC	ERSE	1	20	secundiflora	3	
07GY001	GY	D	2	2009	EVOSER	EVSE	1	18	Evolvulus sericeus	4	
0761001	GT	U		2009	EVUSER	EVSE	l l	10	Paronychia	4	
07GY001	GY	D	2	2009	PARJAM	PAJA	0.1	5	jamesii	4	
0/01001	Gi	D		2009	FAINDAIN	ΓΛυΛ	0.1		Paspalum		
									setaceum var.		
07GY001	GY	D	2	2009	PASSETS	PASES	2	13	stramineum	3	
0701001	01			2000	TAGGETG	TAGEG		10	Quercus	0	
07GY001	GY	D	2	2009	QUEHAV	QUHA3		40	havardii	2	
		_	_						Schizachyrium	_	
07GY001	GY	D	2	2009	SCHSCO	SCSC	20	40	scoparium	3	
									Sporobolus		
07GY001	GY	D	2	2009	SPOCRY	SPCR	5	30	cryptandrus	3	
											read quads
07GY001	GY	D	2	2009	YUCGLA	YUGL	35	55	Yucca glauca	2	towards north
									Aristida		
07GY001	GY	D	12	2009	ARIPUR	ARPU9	2	12	purpurea	3	
									Bouteloua		
07GY001	GY	D	12	2009	BOUHIR	BOHI2	9	8	hirsuta	3	
									Commelina		
07GY001	GY	D	12	2009	COMERE	COER	0.1	10	erecta	4	
07GY001	GY	D	12	2009	CYPRET	CYRE14	1	15	Cyperus	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									retroflexus		
07GY001	GY	D	12	2009	ERASEC	ERSE	5	25	Eragrostis secundiflora	3	
07GY001	GY	D	12	2009	EVOSER	EVSE	2	10	Evolvulus sericeus	4	
07GY001	GY	D	12	2009	PASSETS	PASES	2	10	Paspalum setaceum var. stramineum	3	
07GY001	GY	D	12	2009	QUEHAV	QUHA3	0.5	32		2	
07GY001	GY	D	12	2009	SCHSCO	SCSC	30	25	Schizachyrium scoparium	3	
07GY001	GY	D	12	2009	THEMEG	THME	0.1	15	Thelesperma megapotamicum	4	
07GY001	GY	D	12	2009	XANSPI2	MAPI	0.1	8	Xanthisma spinulosum	4	
07GY001	GY	D	22	2009	ARIPUR	ARPU9	1	15		3	
07GY001	GY	D	22	2009	BOUHIR	BOHI2	20	10	Bouteloua hirsuta	3	
07GY001	GY	D	22	2009	ERASEC	ERSE	5	20	Eragrostis secundiflora	3	
07GY001	GY	D	22	2009	PASSETS	PASES	1	12	Paspalum setaceum var. stramineum	3	
07GY001	GY	D	22	2009	SCHSCO	SCSC	15	20	Schizachyrium scoparium	3	
07GY001	GY	D	22	2009	SPOCRY	SPCR	3	25	Sporobolus cryptandrus	3	
07GY001	GY	D	32	2009	ARIPUR	ARPU9	0.5	6		3	
07GY001	GY	D	32	2009	BOUHIR	BOHI2	8	7	Bouteloua hirsuta	3	
07GY001	GY	D	32	2009	CALSER	CASE12	1	12		4	
07GY001	GY	D	32	2009	DIGPUB	DIPU9	5	17	Digitaria pubiflora	3	
07GY001	GY	D	32	2009	ERASEC	ERSE	1	15	Eragrostis	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									secundiflora		
07GY001	GY	D	32	2000	PASSETS	PASES	2	10	Paspalum setaceum var. stramineum	3	
076 1001	GY	ט	32	2009	PASSETS	PASES	2	10		3	
07GY001	GY	D	32	2009	SCHSCO	SCSC	18	40	Schizachyrium scoparium	3	
07GY001	GY	D	42	2009	ANDHAL	ANHA	3	45	Andropogon hallii	3	
07GY001	GY	D	42	2009	BOUHIR	BOHI2	6	6	Bouteloua hirsuta	3	
07GY001	GY	D	42	2009	CALSER	CASE12	0.1	19	Calylophus serrulatus	4	
07GY001	GY	D	42	2009	COMERE	COER	0.5	15	Commelina erecta	4	
07GY001	GY	D	42	2009	DIGPUB	DIPU9	3	15	Digitaria pubiflora	3	
07GY001	GY	D	42	2009	PASSETS	PASES	2	9	Paspalum setaceum var. stramineum	3	
07GY001	GY	D	42	2009	SCHSCO	SCSC	20	35	Schizachyrium scoparium	3	
07GY001	GY	D	42	2009	SPOCRY	SPCR	2	20	Sporobolus cryptandrus	3	
07GY001	GY	D	42	2009	THEMEG	THME	0.5	22	Thelesperma megapotamicum	4	
07GY001	GY	E	2	2009	AMBPSI	AMPS	0.1	20	Ambrosia psilostachya	4	
07GY001	GY	E	2	2009	ARIPUR	ARPU9	4	20	Aristida purpurea	3	
07GY001	GY	E	2	2009	BOUHIR	BOHI2	1	8	Bouteloua hirsuta	3	
07GY001	GY	E	2	2009	COMERE	COER	0.5	10	Commelina erecta	4	
07GY001	GY	E	2	2009	EVOSER	EVSE	0.5	12	Evolvulus sericeus	4	
07GY001	GY	Е	2	2009	GAUVIL	GAVI2	0.1	15	Gaura villosa	4	
07GY001	GY	E	2	2009	HETVIL	HEVI4	0.5	15	Heterotheca villosa	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paronychia		
07GY001	GY	E	2	2009	PARJAM	PAJA	1	7	jamesii	4	
									Paspalum		
									setaceum var.		
07GY001	GY	E	2	2009	PASSETS	PASES	2	10	stramineum	3	
									Quercus		read quads
07GY001	GY	E	2	2009	QUEHAV	QUHA3	3	40	havardii	2	towards north
									Schizachyrium		
07GY001	GY	E	2	2009	SCHSCO	SCSC	23	30	scoparium	3	
									Xanthisma		
07GY001	GY	E	2	2009	XANSPI2	MAPI	1	20	spinulosum	4	
									Aristida		
07GY001	GY	E	12	2009	ARIPUR	ARPU9	2	12		3	
									Bouteloua		
07GY001	GY	E	12	2009	BOUHIR	BOHI2	3	7	hirsuta	3	
									Calylophus		
07GY001	GY	E	12	2009	CALSER	CASE12	0.1	15		4	
									Chamaesyce		
07GY001	GY	Е	12	2009	CHAFEN	CHFE3	0.5	3		4	
									Digitaria		
07GY001	GY	Е	12	2009	DIGPUB	DIPU9	5	12		3	
									Eragrostis		
07GY001	GY	E	12	2009	ERASEC	ERSE	1	15	secundiflora	3	
									Evolvulus		
07GY001	GY	Е	12	2009	EVOSER	EVSE	1	15	sericeus	4	
07GY001	GY	E	12	2009	GAUVIL	GAVI2	0.1	7	Gaura villosa	4	
									Heterotheca		
07GY001	GY	Е	12	2009	HETVIL	HEVI4	1	15	villosa	4	
									Linum rigidum		
07GY001	GY	E	12	2009	LINRIGR	LIRIR	0.1	20	var. rigidum	4	
		_							Paronychia		
07GY001	GY	Е	12	2009	PARJAM	PAJA	1	5	· ·	4	
									Paspalum		
0=0\( (0.0)		_			5.00	5.050			setaceum var.	_	
07GY001	GY	Е	12	2009	PASSETS	PASES	3	18		3	
07GY001	GY	E	12	2009	POMJAM	POJA5	1	10	Pomaria jamesii	4	
		_							Quercus		
07GY001	GY	E	12	2009	QUEHAV	QUHA3	0.5	50	havardii	2	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
						•			Schizachyrium		
07GY001	GY	E	12	2009	SCHSCO	SCSC	15	20	scoparium	3	
									Sporobolus		
07GY001	GY	E	12	2009	SPOCRY	SPCR	0.5	20	cryptandrus	3	
									Andropogon		
07GY001	GY	E	22	2009	ANDHAL	ANHA	14	40	hallii	3	
									Aristida		
07GY001	GY	E	22	2009	ARIPUR	ARPU9	3	20	purpurea	3	
									Bouteloua		
07GY001	GY	E	22	2009	BOUHIR	BOHI2	2	8	hirsuta	3	
									Cryptantha		
07GY001	GY	E	22	2009	CRYCIN	CRCI3	1	8	cinerea	4	
									Heterotheca		
07GY001	GY	E	22	2009	HETVIL	HEVI4	0.5	17	villosa	4	
									Quercus		
07GY001	GY	E	22	2009	QUEHAV	QUHA3	8	45	havardii	2	
									Schizachyrium		
07GY001	GY	Е	22	2009	SCHSCO	SCSC	11	30	scoparium	3	
									Sporobolus		
07GY001	GY	E	22	2009	SPOCRY	SPCR	1	15	cryptandrus	3	
<b>_</b>									Thelesperma		
07GY001	GY	E	22	2009	THEMEG	THME	0.1	52	megapotamicum	4	
<b>_</b>									Xanthisma		
07GY001	GY	Е	22	2009	XANSPI2	MAPI	0.1	12	spinulosum	4	
		_							Aristida	_	
07GY001	GY	Е	32	2009	ARIPUR	ARPU9	3	25	purpurea	3	
0=0\(00.4	0.4	_			50110115	50011			Bouteloua		
07GY001	GY	Е	32	2009	BOUCUR	BOCU	4	25	curtipendula	3	
070)/004	01/	_	00	0000	DOLUUD	DOLUG		40	Bouteloua		
07GY001	GY	Е	32	2009	BOUHIR	BOHI2	2	12	hirsuta	3	
070)/004	01/	_	00	0000	OLIELIA),	0111140	0.5	4.5	Quercus		
07GY001	GY	Е	32	2009	QUEHAV	QUHA3	25	45	havardii	2	
070004	CV	_	20	2000	COLICOO	2000	4-7	20	Schizachyrium		
07GY001	GY	Е	32	2009	SCHSCO	SCSC	17	22	scoparium	3	
070004	GY	_	20	2000	THEMES	THME	0.5	F0	Thelesperma		
07GY001		E	32	2009	THEMEG		0.5	50	megapotamicum	4	
07GY001	GY		32	2009	YUCGLA	YUGL	1	35	Yucca glauca	2	
07GY001	GY	E	42	2009	ARIPUR	ARPU9	3	20	Aristida	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									purpurea		
									Bouteloua		
07GY001	GY	E	42	2009	BOUCUR	BOCU	2	20	curtipendula	3	
									Bouteloua		
07GY001	GY	E	42	2009	BOUHIR	BOHI2	4	12	hirsuta	3	
									Euphorbia		
07GY001	GY	E	42	2009	EUPDAV	EUDA5	0.1	12	davidii	4	
									Paspalum		
0-01/00/	0)/	_			5.00==0	54656			setaceum var.		
07GY001	GY	Е	42	2009	PASSETS	PASES	0.5	15	stramineum	3	
070)/004	01/	_	40	0000	OLIELIA)/	0111140	00	40	Quercus		
07GY001	GY	Е	42	2009	QUEHAV	QUHA3	23	40	havardii	2	
07GY001	GY	E	42	2009	SCHSCO	scsc	13	30	Schizachyrium	3	
0761001	GT	<b>_</b>	42	2009	зспасо	3030	13	30	scoparium Sporobolus	3	
07GY001	GY	E	42	2009	SPOCRY	SPCR	2	30	cryptandrus	3	
0761001	Gi		42	2009	SPOCKI	SPUR		30	Thelesperma	3	
07GY001	GY	E	42	2009	THEMEG	THME	1	56	megapotamicum	4	
0/01001	01	<b>_</b>	72	2003	TTILIVILO	I I IIVIL	1	30	Bouteloua	-	
07GY001	GY	F	2	2009	BOUCUR	BOCU	1	15	curtipendula	3	
0.0.00		•		2000	Doodon	2000			Bouteloua		
07GY001	GY	F	2	2009	BOUHIR	BOHI2	5	8	hirsuta	3	
		-							Calylophus	_	
07GY001	GY	F	2	2009	CALSER	CASE12	0.2	17	serrulatus	4	
									Cyperus		
07GY001	GY	F	2	2009	CYPRET	CYRE14	0.1	10	retroflexus	3	
07GY001	GY	F	2	2009	DALPUR	DAPU5	0.1	7	Dalea purpurea	4	
									Eragrostis		
07GY001	GY	F	2	2009	ERASES	ERSE2	1	18	sessilispica	3	
									Heterotheca		
07GY001	GY	F	2	2009	HETVIL	HEVI4	0.1	8	villosa	4	
									Paronychia		
07GY001	GY	F	2	2009	PARJAM	PAJA	1	5	jamesii	4	
									Paspalum		
070)/00:	0)/	_		0000	D. 00==0	D.4.05.6			setaceum var.		
07GY001	GY	F	2	2009	PASSETS	PASES	1	15	stramineum	3	
070)/004	OV	_		0000	0011000	0000	40		Schizachyrium		
07GY001	GY	F	2	2009	SCHSCO	SCSC	43	25	scoparium	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Xanthisma		
07GY001	GY	F	2	2009	XANSPI2	MAPI	0.5	20	spinulosum	4	
											Read quads
07GY001	GY	F	2	2009	YUCGLA	YUGL	0.1	45	Yucca glauca	2	toward N.
									Aristida		
07GY001	GY	F	12	2009	ARIPUR	ARPU9	2	25	purpurea	3	
									Bouteloua		
07GY001	GY	F	12	2009	BOUCUR	BOCU	3	20	curtipendula	3	
					_				Bouteloua		
07GY001	GY	F	12	2009	BOUHIR	BOHI2	3	11	hirsuta	3	
		_							Calylophus	_	
07GY001	GY	F	12	2009	CALSER	CASE12	0.5	17	serrulatus	4	
		_							Cyperus	_	
07GY001	GY	F	12	2009	CYPRET	CYRE14	0.1	8	retroflexus	3	
07GY001	GY	F	12	2009	DALPUR	DAPU5	0.1	10	Dalea purpurea	4	
		_							Eragrostis		
07GY001	GY	F	12	2009	ERASES	ERSE2	1	10	sessilispica	3	
									Paspalum		
070\/004	0)/	_	40	0000	DACCETO	DACEC		40	setaceum var.		
07GY001	GY	F	12	2009	PASSETS	PASES	2	13	stramineum	3	
070\/004	0)/	F	40	0000	OLIELIA)/	0111140	40	40	Quercus		
07GY001	GY	F	12	2009	QUEHAV	QUHA3	16	40	havardii	2	
07GY001	GY	F	12	2009	SCHSCO	scsc	40	20	Schizachyrium	3	
0761001	Gĭ	Г	12	2009	зспасо	3030	40	20	scoparium Sporobolus	3	
07GY001	GY	F	12	2009	SPOCRY	SPCR	1	25	cryptandrus	3	
0761001	Gi	<u> </u>	12	2009	SPOCKI	SPUR	1	23	Thelesperma	3	
07GY001	GY	F	12	2009	THEMEG	THME	0.5	57	megapotamicum	4	
0/01001	01	1	12	2003	TTILIVILO	I I IIVIL	0.5	31	Xanthisma		
07GY001	GY	F	12	2009	XANSPI2	MAPI	0.1	20	spinulosum	4	
07 0 1001	31	•	14	2009	AAINOI IZ	1VI/AI I	0.1	20	Bouteloua	7	
07GY001	GY	F	22	2009	BOUCUR	BOCU	2	17	curtipendula	3	
37 3 1 0 0 1		•		2000		, 5000		17	Bouteloua	3	
07GY001	GY	F	22	2009	BOUHIR	BOHI2	3	8	hirsuta	3	
3. 3 1001	J .	•			200	301112			Commelina		
07GY001	GY	F	22	2009	COMERE	COER	0.1	12	erecta	4	
					_ : • <u>-</u>				Paspalum		
07GY001	GY	F	22	2009	PASSETS	PASES	2	15	setaceum var.	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									stramineum		
07GY001	GY	F	22	2009	POMJAM	POJA5	2	20	Pomaria jamesii	4	
07GY001	GY	F	22	2009	QUEHAV	QUHA3	11	50	Quercus havardii	2	
									Schizachyrium		
07GY001	GY	F	22	2009	SCHSCO	SCSC	35	30	scoparium	3	
07GY001	GY	F	22	2009	SPOCRY	SPCR	2	20	Sporobolus cryptandrus	3	
07GY001	GY	F	22	2009	THEMEG	THME	0.5	45	Thelesperma megapotamicum	4	
07GY001	GY	F	22	2009	XANSPI2	MAPI	1	25	Xanthisma spinulosum	4	
07GY001	GY	F	22	2009	YUCGLA	YUGL	35	55	Yucca glauca	2	
07GY001	GY	F	32	2009	BOUHIR	BOHI2	6	12	Bouteloua hirsuta	3	
07GY001	GY	F	32	2009	CALSER	CASE12	3	28	Calylophus serrulatus	4	
07GY001	GY	F	32	2009	CRYCIN	CRCI3	0.1	14	Cryptantha cinerea	4	
07GY001	GY	F	32	2009	CYPRET	CYRE14	0.1	10	Cyperus retroflexus	3	
07GY001	GY	F	32	2009	DIGPUB	DIPU9	3	18	Digitaria pubiflora	3	
07GY001	GY	F	32	2009	GUTSAR	GUSA2	2	20	Gutierrezia sarothrae	2.5	
07GY001	GY	F	32	2009	PARJAM	PAJA	0.5	6	Paronychia jamesii	4	
07GY001	GY	F	32	2009	PASSETS	PASES	1	15	Paspalum setaceum var. stramineum	3	
	GY	F	32					50	Quercus		
07GY001	GY	Г	32	2009	QUEHAV	QUHA3	11	50	havardii Schizachyrium	2	
07GY001	GY	F	32	2009	SCHSCO	scsc	23	35	scoparium	3	
07GY001	GY	F	32	2009	SPOCRY	SPCR	1	20	Sporobolus cryptandrus	3	
07GY001	GY	F	32	2009	XANSPI2	MAPI	0.5	10	Xanthisma spinulosum	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Bouteloua		
07GY001	GY	F	42	2009	BOUHIR	BOHI2	5	9	hirsuta	3	
									Commelina		
07GY001	GY	F	42	2009	COMERE	COER	0.5	13	erecta	4	
									Cyperus		
07GY001	GY	F	42	2009	CYPRET	CYRE14	0.1	7	retroflexus	3	
									Froelichia		
07GY001	GY	F	42	2009	FROGRA	FRGR3	0.1	5	gracilis	4	
07GY001	GY	F	42	2009	LIAPUN	LIPU	1	20	Liatris punctata	4	
									Paronychia		
07GY001	GY	F	42	2009	PARJAM	PAJA	0.1	7	jamesii	4	
									Paspalum		
		_						_	setaceum var.		
07GY001	GY	F	42	2009	PASSETS	PASES	0.1	5	stramineum	3	
07GY001	GY	F	42	2009	POMJAM	POJA5	0.1	12	Pomaria jamesii	4	
070)/004	0)/	_	40	0000	011511417	0111140	_	40	Quercus		
07GY001	GY	F	42	2009	QUEHAV	QUHA3	7	40	havardii	2	
070)/004	0)/	_	40	0000	0011000	0000	40	47	Schizachyrium		
07GY001	GY	F	42	2009	SCHSCO	SCSC	40	17	scoparium	3	
070001	GY	F	40	2000	SPOCRY	SPCR	1	15	Sporobolus	3	
07GY001	GT	Г	42	2009	SPOCKT	SPCK	I	15	cryptandrus Thelesperma	3	
07GY001	GY	F	42	2009	THEMEG	THME	0.5	50	megapotamicum	4	
0/01001	Gi	1	42	2009	TTILIVILG	I I IIVIL	0.5	30	Ambrosia	4	
07GY001	GY	G	2	2009	AMBPSI	AMPS	0.5	9	psilostachya	4	
37 3 1 0 0 1	, J ,			2000	, WIDI OI	, tivii O	0.5		Andropogon	7	
07GY001	GY	G	2	2009	ANDHAL	ANHA	4	47	hallii	3	
			_				•		Aristida		
07GY001	GY	G	2	2009	ARIPUR	ARPU9	7	20	purpurea	3	
									Bouteloua		
07GY001	GY	G	2	2009	BOUCUR	BOCU	0.5	15	curtipendula	3	
									Bouteloua		
07GY001	GY	G	2	2009	BOUHIR	BOHI2	4	10	hirsuta	3	
									Calylophus		
07GY001	GY	G	2	2009	CALSER	CASE12	1	20	serrulatus	4	
									Digitaria		
07GY001	GY	G	2	2009	DIGPUB	DIPU9	5	15	pubiflora	3	
07GY001	GY	G	2	2009	PASSETS	PASES	2	15	Paspalum	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									setaceum var.		
									stramineum		
									Psilostrophe		
07GY001	GY	G	2	2009	PSITAG	PSTA	1	15	tagetina	4	
									Quercus		Read quads
07GY001	GY	G	2	2009	QUEHAV	QUHA3	9	17	havardii	2	toward N.
									Schizachyrium		
07GY001	GY	G	2	2009	SCHSCO	SCSC	10	30	scoparium	3	
									Sporobolus		
07GY001	GY	G	2	2009	SPOCRY	SPCR	1	40	cryptandrus	3	
									Bouteloua		
07GY001	GY	G	12	2009	BOUHIR	BOHI2	5	10	hirsuta	3	
									Calylophus		
07GY001	GY	G	12	2009	CALSER	CASE12	0.1	10	serrulatus	4	
									Commelina		
07GY001	GY	G	12	2009	COMERE	COER	0.1	10	erecta	4	
									Eragrostis		
07GY001	GY	G	12	2009	ERASEC	ERSE	2	15	secundiflora	3	
									Paspalum		
		_							setaceum var.	_	
07GY001	GY	G	12	2009	PASSETS	PASES	5	15	stramineum	3	
		_							Quercus	_	
07GY001	GY	G	12	2009	QUEHAV	QUHA3	4	15	havardii	2	
	<b>.</b>								Schizachyrium	_	
07GY001	GY	G	12	2009	SCHSCO	SCSC	48	25	scoparium	3	
									unidentified forb		
07GY001	GY	G	12	2009	UNIDFS		0.1	2	- seedling	4	
070)(004	0)/			0000	DOLLOUD	D0011		4-	Bouteloua		
07GY001	GY	G	22	2009	BOUCUR	BOCU	0.5	15	curtipendula	3	
070)/004	0)/		00	0000	DOLUMB	DOLUG		4.0	Bouteloua		
07GY001	GY	G	22	2009	BOUHIR	BOHI2	8	10	hirsuta	3	
070)/004	0)/		00	0000	CLIAEDI	CLIEDO	_	4.0	Chaetopappa		
07GY001	GY	G	22	2009	CHAERI	CHER2	5	10	ericoides	4	
070)/004	CV		00	2022	CVDDET	CVDE44		4.4	Cyperus	_	
07GY001	GY	G	22	2009	CYPRET	CYRE14	0.5	11	retroflexus	3	
0701/004	CV		20	2000	DICDLID	DIDLIO		40	Digitaria		
07GY001	GY	G	22	2009	DIGPUB	DIPU9	6	12	pubiflora	3	
07GY001	GY	G	22	2009	PASSETS	PASES	2	15	Paspalum	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									setaceum var.		
									stramineum		
									Quercus		
07GY001	GY	G	22	2009	QUEHAV	QUHA3	9	38	havardii	2	
									Schizachyrium		
07GY001	GY	G	22	2009	SCHSCO	SCSC	21	30	scoparium	3	
									Sporobolus		
07GY001	GY	G	22	2009	SPOCRY	SPCR	1	30	cryptandrus	3	
									Aristida		
07GY001	GY	G	32	2009	ARIPUR	ARPU9	2	20	purpurea	3	
									Bouteloua		
07GY001	GY	G	32	2009	BOUCUR	BOCU	1	20	curtipendula	3	
									Bouteloua		
07GY001	GY	G	32	2009	BOUHIR	BOHI2	2	15	hirsuta	3	
									Chaetopappa		
07GY001	GY	G	32	2009	CHAERI	CHER2	3	10	ericoides	4	
									Commelina		
07GY001	GY	G	32	2009	COMERE	COER	1	9	erecta	4	
									Cyperus		
07GY001	GY	G	32	2009	CYPRET	CYRE14	0.5	8	retroflexus	3	
									Evolvulus		
07GY001	GY	G	32	2009	EVOSER	EVSE	0.5	9	sericeus	4	
									Paspalum		
									setaceum var.		
07GY001	GY	G	32	2009	PASSETS	PASES	2	15	stramineum	3	
									Psilostrophe		
07GY001	GY	G	32	2009	PSITAG	PSTA	0.5	10	tagetina	4	
									Quercus		
07GY001	GY	G	32	2009	QUEHAV	QUHA3	20	45	havardii	2	
									Schizachyrium		
07GY001	GY	G	32	2009	SCHSCO	SCSC	15	20	scoparium	3	
									Sporobolus		
07GY001	GY	G	32	2009	SPOCRY	SPCR	1	40	cryptandrus	3	
									Thelesperma		
07GY001	GY	G	32	2009	THEMEG	THME	0.1	53	megapotamicum	4	
									Ambrosia		
07GY001	GY	G	42	2009	AMBPSI	AMPS	0.5	17	psilostachya	4	
07GY001	GY	G	42	2009	ARIPUR	ARPU9	3	23	Aristida	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									purpurea		
									Bouteloua		
07GY001	GY	G	42	2009	BOUCUR	BOCU	2	18	curtipendula	3	
									Bouteloua		
07GY001	GY	G	42	2009	BOUHIR	BOHI2	10	12	hirsuta	3	
									Chamaesyce		
07GY001	GY	G	42	2009	CHAGLY	CHGL13	0.1	3	glyptosperma	4	
									Cryptantha		
07GY001	GY	G	42	2009	CRYCIN	CRCI3	0.5	11	cinerea	4	
											change MIRGLA
07GY001	GY	G	42	2009	MIRLIN	MILI3	0.1	17	Mirabilis linearis	4	to MIRLIN-YC
									Munroa		
07GY001	GY	G	42	2009	MUNSQU	MUSQ3	0.5	6	squarrosa	3	
									Paspalum		
_									setaceum var.		
07GY001	GY	G	42	2009	PASSETS	PASES	1	25	stramineum	3	
<b>_</b>		_							Quercus	_	
07GY001	GY	G	42	2009	QUEHAV	QUHA3	16	45	havardii	2	
070)/004	0)/		40	0000	0011000	0000	_	0.5	Schizachyrium		
07GY001	GY	G	42	2009	SCHSCO	SCSC	5	25	scoparium	3	
070004	CV	G	40	2000	CDOCDY	CDCD		25	Sporobolus		
07GY001	GY	G	42	2009	SPOCRY	SPCR	2	25	cryptandrus Aristida	3	
07GY001	GY	Н	2	2009	ARIPUR	ARPU9	18	25	purpurea	3	
0761001	Gi	11		2009	ANIFUN	ANFUS	10	23	Bouteloua	3	
07GY001	GY	Н	2	2009	BOUHIR	BOHI2	6	12	hirsuta	3	
0701001	01	11		2003	BOOTIIK	DOTTIZ	0	12	Calylophus	3	
07GY001	GY	Н	2	2009	CALSER	CASE12	0.5	15	serrulatus	4	
3731331	·				O, LOLIK	J. (OL 12	0.0		Cenchrus	-	
07GY001	GY	Н	2	2009	CENSPI	CESP4	2	25	spinifex	3	
2. 2. 30.		-	_		<u> </u>		_		Commelina		
07GY001	GY	Н	2	2009	COMERE	COER	3	12	erecta	4	
									Digitaria		
07GY001	GY	Н	2	2009	DIGPUB	DIPU9	4	18		3	
									Eragrostis		
07GY001	GY	Н	2	2009	ERASEC	ERSE	3	20	secundiflora	3	
									Froelichia		
07GY001	GY	Н	2	2009	FROGRA	FRGR3	0.5	24	gracilis	4	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GY001	GY	Н	2	2009	PASSETS	PASES	1	15	stramineum	3	
									Prosopis		read quads
07GY001	GY	Н	2	2009	PROGLA	PRGL2	23	100	glandulosa	2	towards north
									Quercus		
07GY001	GY	Н	2	2009	QUEHAV	QUHA3	1	35	havardii	2	
			_				_		Schizachyrium	_	
07GY001	GY	Н	2	2009	SCHSCO	SCSC	8	25	scoparium	3	
			_						Sporobolus		
07GY001	GY	Н	2	2009	SPOCRY	SPCR	1	15	cryptandrus	3	
0-0)/00/	0),				\/ 4 \ 10 D 10				Xanthisma		
07GY001	GY	Н	2	2009	XANSPI2	MAPI	2	18	spinulosum	4	
070)/004	0)/		40	0000	ADIDUD	A D D L IO	_	00	Aristida		
07GY001	GY	Н	12	2009	ARIPUR	ARPU9	1	20	purpurea	3	
070)/004	0)/		40	0000	DOLUUD	DOLUG		40	Bouteloua		
07GY001	GY	Н	12	2009	BOUHIR	BOHI2	4	10	hirsuta	3	
070004	CV		40	2000	COMEDE	COED	0.5	10	Commelina		
07GY001	GY	Н	12	2009	COMERE	COER	0.5	10	erecta Digitaria	4	
07GY001	GY	Н	12	2009	DIGPUB	DIPU9	1	18	pubiflora	3	
0761001	Gi	11	12	2009	DIGFUB	DIFUS	1	10	Eragrostis	3	
07GY001	GY	Н	12	2009	ERASEC	ERSE	3	20	secundiflora	3	
0/01001	01	11	12	2003	LIVAGEO	LIXOL	3	20	Paronychia	3	
07GY001	GY	Н	12	2009	PARJAM	PAJA	0.5	6	jamesii	4	
0701001	<u> </u>	• •	12	2000	1 7 (1 (0) (1))	171071	0.0		Quercus		
07GY001	GY	Н	12	2009	QUEHAV	QUHA3	10	25	havardii	2	
0.0.00.						<b>QOI</b> 10			Schizachyrium	_	
07GY001	GY	Н	12	2009	SCHSCO	SCSC	31	25	scoparium	3	
									Sporobolus		
07GY001	GY	Н	12	2009	SPOCRY	SPCR	1	12	cryptandrus	3	
									Thelesperma		
07GY001	GY	Н	12	2009	THEMEG	THME	0.5	42	megapotamicum	4	
									Andropogon		
07GY001	GY	Н	22	2009	ANDHAL	ANHA	5	45	hallii	3	
									Bouteloua		
07GY001	GY	Н	22	2009	BOUCUR	BOCU	0.5	15	curtipendula	3	
07GY001	GY	Н	22	2009	BOUHIR	BOHI2	3	7	Bouteloua	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									hirsuta		
									Evolvulus		
07GY001	GY	Н	22	2009	EVOSER	EVSE	0.1	12	sericeus	4	
					_				Quercus		
07GY001	GY	Н	22	2009	QUEHAV	QUHA3	15	30	havardii	2	
070)/00/	0),				0011000	0000			Schizachyrium		
07GY001	GY	Н	22	2009	SCHSCO	SCSC	32	30	scoparium	3	
070001	GY	Н	20	2000	CDOCDY	SPCR	3	20	Sporobolus		
07GY001	GY	П	22	2009	SPOCRY	SPCR	3	20	cryptandrus Bouteloua	3	
07GY001	GY	Н	32	2009	BOUCUR	BOCU	1	10	curtipendula	3	
0761001	Gi	11	32	2009	BOOCOK	ВОСО	I	10	Bouteloua	3	
07GY001	GY	Н	32	2009	BOUHIR	BOHI2	2	10	hirsuta	3	
0701001	01		02	2000	Boorini	BOTTLE		10	Calylophus		
07GY001	GY	Н	32	2009	CALSER	CASE12	0.5	17	serrulatus	4	
									Digitaria		
07GY001	GY	Н	32	2009	DIGPUB	DIPU9	1	10	pubiflora	3	
									Eragrostis		
07GY001	GY	Н	32	2009	ERASEC	ERSE	1	14	secundiflora	3	
									Paronychia		
07GY001	GY	Н	32	2009	PARJAM	PAJA	0.5	6	jamesii	4	
									Paspalum		
									setaceum var.	_	
07GY001	GY	Н	32	2009	PASSETS	PASES	1	12	stramineum	3	
070)/004	0)/		00	0000	OLIELIA)/	0111140	40	07	Quercus		
07GY001	GY	Н	32	2009	QUEHAV	QUHA3	12	27	havardii	2	
07GY001	GY	Н	32	2009	SCHSCO	scsc	35	18	Schizachyrium	3	
0761001	GT	П	32	2009	зспасо	3030	33	10	scoparium Xanthisma	3	
07GY001	GY	Н	32	2009	XANSPI2	MAPI	1	15	spinulosum	4	
0/01001	01	11	52	2003	AANOI IZ	IVIALI	1	10	Andropogon	7	
07GY001	GY	Н	42	2009	ANDHAL	ANHA	3	35	hallii	3	
3.01001			12					- 50	Bouteloua		
07GY001	GY	Н	42	2009	BOUHIR	BOHI2	9	10	hirsuta	3	
									Calylophus		
07GY001	GY	Н	42	2009	CALSER	CASE12	1	14	serrulatus	4	
									Eragrostis		
07GY001	GY	Н	42	2009	ERASEC	ERSE	2	20	secundiflora	3	

PlotID	Treatment	Transect	Quad	Year	ACRO1	NM_K_Symbol	Cover	Ht	NMSpName	LifeForm	Comments
									Paspalum		
									setaceum var.		
07GY001	GY	Н	42	2009	PASSETS	PASES	2	10	stramineum	3	
									Quercus		
07GY001	GY	Н	42	2009	QUEHAV	QUHA3	11	30	havardii	2	
									Schizachyrium		
07GY001	GY	Н	42	2009	SCHSCO	SCSC	22	18	scoparium	3	
									Sporobolus		
07GY001	GY	Н	42	2009	SPOCRY	SPCR	2	22	cryptandrus	3	
									Thelesperma		
07GY001	GY	Н	42	2009	THEMEG	THME	1	48	megapotamicum	4	

Table B2. Raw biomass (grams) by vegetation type (herbaceous or woody) per clipping quadrat at the Sandhills Grazing Area (SGA).

PlotID	Treatment	Transect	WeightLoc	VegType	VegWeight	Date
07GC001	GC	A	4	Н	2.09	09-Oct-09
07GC001	GC	Α	14	Н	6.65	09-Oct-09
07GC001	GC	A	24	Н	1.98	09-Oct-09
07GC001	GC	Α	24	W	16.86	09-Oct-09
07GC001	GC	A	34	Н	4.17	09-Oct-09
07GC001	GC	Α	34	W	37.91	09-Oct-09
07GC001	GC	A	44	Н	8.2	09-Oct-09
07GC001	GC	Α	44	W	53.13	09-Oct-09
07GC001	GC	В	4	W	2.32	09-Oct-09
07GC001	GC	В	4	Н	1.84	09-Oct-09
07GC001	GC	В	14	Н	2.74	09-Oct-09
07GC001	GC	В	14	W	2.45	09-Oct-09
07GC001	GC	В	24	Н	6.36	09-Oct-09
07GC001	GC	В	24	W	39.87	09-Oct-09
07GC001	GC	В	34	W	36.97	09-Oct-09
07GC001	GC	В	34	Н	9.06	09-Oct-09
07GC001	GC	В	44	Н	4.39	09-Oct-09
07GC001	GC	В	44	W	24.28	09-Oct-09
07GC001	GC	С	4	Н	13.84	10-Oct-09
07GC001	GC	С	14	Н	5.26	10-Oct-09
07GC001	GC	С	24	Н	4.58	10-Oct-09
07GC001	GC	С	24	W	52.98	10-Oct-09
07GC001	GC	С	34	W	49.78	10-Oct-09
07GC001	GC	С	34	Н	8.25	10-Oct-09
07GC001	GC	С	44	W	29.69	10-Oct-09
07GC001	GC	С	44	Н	1.84	10-Oct-09
07GC001	GC	D	4	Н	49.67	10-Oct-09
07GC001	GC	D	14	W	29.64	10-Oct-09
07GC001	GC	D	14	Н	33.33	10-Oct-09
07GC001	GC	D	24	Н	12.65	10-Oct-09

PlotID	Treatment	Transect	WeightLoc	VegType	VegWeight	Date
07GC001	GC	D	34	Н	14.06	10-Oct-09
07GC001	GC	D	34	W	50.95	10-Oct-09
07GC001	GC	D	44	Н	12.75	10-Oct-09
07GC001	GC	D	44	W	0.35	10-Oct-09
07GC001	GC	E	4	Н	3.4	09-Oct-09
07GC001	GC	E	4	W	18.4	09-Oct-09
07GC001	GC	E	14	Н	13.1	09-Oct-09
07GC001	GC	E	24	Н	12.49	09-Oct-09
07GC001	GC	E	24	W	7.36	09-Oct-09
07GC001	GC	E	34	Н	9.66	09-Oct-09
07GC001	GC	E	44	W	12.29	09-Oct-09
07GC001	GC	E	44	Н	12.52	09-Oct-09
07GC001	GC	F	4	W	0.82	09-Oct-09
07GC001	GC	F	4	Н	5.59	09-Oct-09
07GC001	GC	F	14	Н	8.57	09-Oct-09
07GC001	GC	F	24	Н	3.94	09-Oct-09
07GC001	GC	F	34	Н	26.2	09-Oct-09
07GC001	GC	F	44	Н	3.61	09-Oct-09
07GC001	GC	G	4	W	43.7	10-Oct-09
07GC001	GC	G	4	Н	8.33	10-Oct-09
07GC001	GC	G	14	Н	14.44	10-Oct-09
07GC001	GC	G	24	Н	9.61	10-Oct-09
07GC001	GC	G	24	W	1.05	10-Oct-09
07GC001	GC	G	34	W	24.07	10-Oct-09
07GC001	GC	G	34	Н	2.72	10-Oct-09
07GC001	GC	G	44	Н	13.27	10-Oct-09
07GC001	GC	Н	4	W	2.23	10-Oct-09
07GC001	GC	Н	14	W	36.05	10-Oct-09
07GC001	GC	Н	14	Н	1.36	10-Oct-09
07GC001	GC	Н	24	Н	7.02	10-Oct-09
07GC001	GC	Н	24	W	4.85	10-Oct-09
07GC001	GC	Н	34	W	1.18	10-Oct-09
07GC001	GC	Н	34	Н	49.1	10-Oct-09
07GC001	GC	Н	44	W	18.71	10-Oct-09

PlotID	Treatment	Transect	WeightLoc	VegType	VegWeight	Date
07GC001	GC	Н	44	Н	2.07	10-Oct-09
07GR001	GR	Α	4	W	26.29	07-Oct-09
07GR001	GR	Α	4	Н	4.38	07-Oct-09
07GR001	GR	Α	14	W	4.48	07-Oct-09
07GR001	GR	Α	14	Н	5.08	07-Oct-09
07GR001	GR	Α	24	Н	2.29	07-Oct-09
07GR001	GR	Α	24	W	4.63	07-Oct-09
07GR001	GR	Α	34	Н	43.21	07-Oct-09
07GR001	GR	Α	34	W	7.36	07-Oct-09
07GR001	GR	Α	44	W	4.51	07-Oct-09
07GR001	GR	Α	44	Н	5.67	07-Oct-09
07GR001	GR	В	4	Н	16.73	07-Oct-09
07GR001	GR	В	4	W	16.93	07-Oct-09
07GR001	GR	В	14	W	23.71	07-Oct-09
07GR001	GR	В	14	Н	26.39	07-Oct-09
07GR001	GR	В	24	W	9.11	07-Oct-09
07GR001	GR	В	24	Н	2.8	07-Oct-09
07GR001	GR	В	34	W	38.91	07-Oct-09
07GR001	GR	В	34	Н	11.82	07-Oct-09
07GR001	GR	В	44	Н	8.13	07-Oct-09
07GR001	GR	В	44	W	25.14	07-Oct-09
07GR001	GR	С	4	Н	1.35	08-Oct-09
07GR001	GR	С	14	W	6.87	08-Oct-09
07GR001	GR	С	14	Н	14.7	08-Oct-09
07GR001	GR	С	14	W	7.74	08-Oct-09
07GR001	GR	С	24	Н	9.87	08-Oct-09
07GR001	GR	С	34	W	7	08-Oct-09
07GR001	GR	С	34	Н	36.39	08-Oct-09
07GR001	GR	С	44	W	43.14	08-Oct-09
07GR001	GR	С	44	Н	3.16	08-Oct-09
07GR001	GR	D	4	W	0.65	08-Oct-09
07GR001	GR	D	4	Н	18.83	08-Oct-09
07GR001	GR	D	14	Н	94.51	08-Oct-09
07GR001	GR	D	24	Н	29.37	08-Oct-09

PlotID	Treatment	Transect	WeightLoc	VegType	VegWeight	Date
07GR001	GR	D	24	W	13.26	08-Oct-09
07GR001	GR	D	34	W	6.23	08-Oct-09
07GR001	GR	D	34	Н	17.69	08-Oct-09
07GR001	GR	D	44	Н	32.23	08-Oct-09
07GR001	GR	E	4	Н	7.52	07-Oct-09
07GR001	GR	E	4	Н	1.39	07-Oct-09
07GR001	GR	E	4	W	6.64	07-Oct-09
07GR001	GR	E	14	Н	5.78	07-Oct-09
07GR001	GR	E	14	W	34.37	07-Oct-09
07GR001	GR	E	14	Н	15.91	07-Oct-09
07GR001	GR	E	24	Н	4.24	07-Oct-09
07GR001	GR	E	24	Н	33.26	07-Oct-09
07GR001	GR	E	24	W	3.25	07-Oct-09
07GR001	GR	E	24	W	5.29	07-Oct-09
07GR001	GR	E	34	W	29.81	07-Oct-09
07GR001	GR	E	34	Н	8.37	07-Oct-09
07GR001	GR	E	34	Н	5.89	07-Oct-09
07GR001	GR	E	44	Н	3.65	07-Oct-09
07GR001	GR	E	44	W	16.78	07-Oct-09
07GR001	GR	E	44	Н	6.88	07-Oct-09
07GR001	GR	G	4	Н	10.86	08-Oct-09
07GR001	GR	G	4	W	1.33	08-Oct-09
07GR001	GR	G	14	Н	17.53	08-Oct-09
07GR001	GR	G	14	W	3.02	08-Oct-09
07GR001	GR	G	24	Н	2.38	08-Oct-09
07GR001	GR	G	24	W	12.69	08-Oct-09
07GR001	GR	G	34	Н	6.77	08-Oct-09
07GR001	GR	G	34	W	4.68	08-Oct-09
07GR001	GR	G	44	Н	34.68	08-Oct-09
07GR001	GR	Н	4	Н	3.55	08-Oct-09
07GR001	GR	Н	14	Н	9.67	08-Oct-09
07GR001	GR	Н	24	Н	40.77	08-Oct-09
07GR001	GR	H	34	W	1.81	08-Oct-09
07GR001	GR	Н	34	Н	11.28	08-Oct-09

PlotID	Treatment	Transect	WeightLoc	VegType	VegWeight	Date
07GR001	GR	Н	44	Н	7.35	08-Oct-09
07GR001	GR	Н	44	W	14.53	08-Oct-09
07GY001	GY	Α	4	Н	10.38	09-Oct-09
07GY001	GY	Α	14	Н	14.05	09-Oct-09
07GY001	GY	Α	24	Н	4.35	09-Oct-09
07GY001	GY	Α	34	Н	5.55	09-Oct-09
07GY001	GY	Α	44	Н	6.32	09-Oct-09
07GY001	GY	В	4	Н	12.38	09-Oct-09
07GY001	GY	В	4	W	6.97	09-Oct-09
07GY001	GY	В	14	Н	4.34	09-Oct-09
07GY001	GY	В	14	W	2.66	09-Oct-09
07GY001	GY	В	24	Н	15.54	09-Oct-09
07GY001	GY	В	24	Н	17.13	09-Oct-09
07GY001	GY	В	44	W	174.39	09-Oct-09
07GY001	GY	С	4	Н	2.81	09-Oct-09
07GY001	GY	С	4	W	10.77	09-Oct-09
07GY001	GY	С	14	W	57.55	09-Oct-09
07GY001	GY	С	14	Н	1.72	09-Oct-09
07GY001	GY	С	24	W	36.7	09-Oct-09
07GY001	GY	С	24	Н	30.02	09-Oct-09
07GY001	GY	С	34	Н	5.75	09-Oct-09
07GY001	GY	С	34	W	2.58	09-Oct-09
07GY001	GY	С	44	Н	9.1	09-Oct-09
07GY001	GY	D	4	W	20.53	08-Oct-09
07GY001	GY	D	4	Н	23.09	08-Oct-09
07GY001	GY	D	14	Н	23.88	08-Oct-09
07GY001	GY	D	24	W	32.13	08-Oct-09
07GY001	GY	D	24	Н	16.74	08-Oct-09
07GY001	GY	D	34	Н	27.05	08-Oct-09
07GY001	GY	D	44	Н	9.67	08-Oct-09
07GY001	GY	E	4	Н	0.219999	09-Oct-09
07GY001	GY	E	14	Н	14.95	09-Oct-09
07GY001	GY	E	24	Н	12.37	09-Oct-09
07GY001	GY	E	34	Н	9.57	09-Oct-09

PlotID	Treatment	Transect	WeightLoc	VegType	VegWeight	Date
07GY001	GY	E	44	W	19.19	09-Oct-09
07GY001	GY	E	44	Н	3.33	09-Oct-09
07GY001	GY	F	4	Н	32.07	09-Oct-09
07GY001	GY	F	14	W	8.31	09-Oct-09
07GY001	GY	F	14	Н	28.91	09-Oct-09
07GY001	GY	F	24	Н	9.18	09-Oct-09
07GY001	GY	F	34	Н	9.26	09-Oct-09
07GY001	GY	F	44	Н	24.44	09-Oct-09
07GY001	GY	G	4	Н	24.34	08-Oct-09
07GY001	GY	G	14	W	23.31	08-Oct-09
07GY001	GY	G	14	Н	6.81	08-Oct-09
07GY001	GY	G	24	Н	5.5	08-Oct-09
07GY001	GY	G	34	W	76.84	08-Oct-09
07GY001	GY	G	34	Н	1.05	08-Oct-09
07GY001	GY	G	44	W	11.08	08-Oct-09
07GY001	GY	G	44	Н	6.45	08-Oct-09
07GY001	GY	Н	4	Н	14.56	08-Oct-09
07GY001	GY	Н	4	W	2.86	08-Oct-09
07GY001	GY	Н	14	Н	8.28	08-Oct-09
07GY001	GY	Н	14	W	19.76	08-Oct-09
07GY001	GY	Н	24	W	14.28	08-Oct-09
07GY001	GY	Н	24	Н	6.94	08-Oct-09
07GY001	GY	Н	34	Н	13.37	08-Oct-09
07GY001	GY	Н	44	W	29.43	08-Oct-09
07GY001	GY	Н	44	Н	3.55	08-Oct-09

Table B3. Raw percent basal cover data based on transect line point intercept at the Sandhills Grazing Area (SGA).

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GC001	GC	Α	2007	1	ARIPUR	ARPU9	Aristida purpurea	Bill Dunn
07GC001	GC	Α	2007	68	LITTER			Bill Dunn
07GC001	GC	Α	2007	1	QUEHAV	QUHA3	Quercus havardii	Bill Dunn
07GC001	GC	Α	2007	8	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GC001	GC	Α	2007	21	SOIL			Bill Dunn
07GC001	GC	Α	2007	1	SPOCRY	SPCR	Sporobolus cryptandrus	Bill Dunn
07GC001	GC	В	2007	2	ERASEC	ERSE	Eragrostis secundiflora	Bill Dunn
07GC001	GC	В	2007	59	LITTER			Bill Dunn
07GC001	GC	В	2007	2	QUEHAV	QUHA3	Quercus havardii	Bill Dunn
07GC001	GC	В	2007	7	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GC001	GC	В	2007	28	SOIL			Bill Dunn
07GC001	GC	В	2007	1	SPOCRY	SPCR	Sporobolus cryptandrus	Bill Dunn
07GC001	GC	С	2007	1	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GC001	GC	С	2007	2	ARIPUR	ARPU9	Aristida purpurea	Bill Dunn
07GC001	GC	С	2007	1	ERASEC	ERSE	Eragrostis secundiflora	Bill Dunn
07GC001	GC	С	2007	57	LITTER			Bill Dunn
07GC001	GC	С	2007	1	PASSET	PASE5	Paspalum setaceum	Bill Dunn
07GC001	GC	С	2007	5	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GC001	GC	С	2007	33	SOIL			Bill Dunn
07GC001	GC	D	2007	1	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GC001	GC	D	2007	3	ERASEC	ERSE	Eragrostis secundiflora	Bill Dunn
07GC001	GC	D	2007	55	LITTER			Bill Dunn
07GC001	GC	D	2007	4	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GC001	GC	D	2007	37	SOIL			Bill Dunn
07GC001	GC	E	2007	1	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GC001	GC	Е	2007	1	ARIPUR	ARPU9	Aristida purpurea	Bill Dunn
07GC001	GC	Е	2007	2	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GC001	GC	E	2007	56	LITTER			Bill Dunn
07GC001	GC	Е	2007	14	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GC001	GC	Е	2007	26	SOIL			Bill Dunn
07GC001	GC	F	2007	1	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GC001	GC	F	2007	1	DUNG			Bill Dunn
07GC001	GC	F	2007	1	GUTSAR	GUSA2	Gutierrezia sarothrae	Bill Dunn

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GC001	GC	F	2007	31	LITTER			Bill Dunn
07GC001	GC	F	2007	15	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GC001	GC	F	2007	48	SOIL			Bill Dunn
07GC001	GC	F	2007	2	YUCGLA	YUGL	Yucca glauca	Bill Dunn
07GC001	GC	G	2007	58	LITTER			Bill Dunn
07GC001	GC	G	2007	1	PASSET	PASE5	Paspalum setaceum	Bill Dunn
07GC001	GC	G	2007	3	QUEHAV	QUHA3	Quercus havardii	Bill Dunn
07GC001	GC	G	2007	4	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GC001	GC	G	2007	34	SOIL			Bill Dunn
07GC001	GC	Н	2007	1	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GC001	GC	Н	2007	1	DUNG			Bill Dunn
07GC001	GC	Н	2007	1	ERASEC	ERSE	Eragrostis secundiflora	Bill Dunn
07GC001	GC	Н	2007	57	LITTER			Bill Dunn
07GC001	GC	Н	2007	12	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GC001	GC	Н	2007	27	SOIL			Bill Dunn
07GR001	GR	Α	2007	2	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GR001	GR	Α	2007	1	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GR001	GR	Α	2007	51	LITTER			Bill Dunn
07GR001	GR	Α	2007	1	PASSET	PASE5	Paspalum setaceum	Bill Dunn
07GR001	GR	Α	2007	1	QUEHAV	QUHA3	Quercus havardii	Bill Dunn
07GR001	GR	Α	2007	5	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GR001	GR	Α	2007	38	SOIL			Bill Dunn
07GR001	GR	В	2007	2	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GR001	GR	В	2007	4	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GR001	GR	В	2007	1	DUNG			Bill Dunn
07GR001	GR	В	2007	46	LITTER			Bill Dunn
07GR001	GR	В	2007	1	PASSET	PASE5	Paspalum setaceum	Bill Dunn
07GR001	GR	В	2007	13	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GR001	GR	В	2007	33	SOIL			Bill Dunn
07GR001	GR	С	2007	3	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GR001	GR	С	2007	1	ARIPUR	ARPU9	Aristida purpurea	Bill Dunn
07GR001	GR	С	2007	3	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GR001	GR	С	2007	50	LITTER			Bill Dunn
07GR001	GR	С	2007	9		SCSC	Schizachyrium scoparium	Bill Dunn
07GR001	GR	С	2007	32	SOIL			Bill Dunn
07GR001	GR	С	2007	2	YUCGLA	YUGL	Yucca glauca	Bill Dunn

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GR001	GR	D	2007	1	BOUCUR	BOCU	Bouteloua curtipendula	Bill Dunn
07GR001	GR	D	2007	4	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GR001	GR	D	2007	1	DUNG			Bill Dunn
07GR001	GR	D	2007	38	LITTER			Bill Dunn
07GR001	GR	D	2007	1	QUEHAV	QUHA3	Quercus havardii	Bill Dunn
07GR001	GR	D	2007	17	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GR001	GR	D	2007	38	SOIL			Bill Dunn
07GR001	GR	Е	2007	4	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GR001	GR	Е	2007	4	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GR001	GR	Е	2007	51	LITTER			Bill Dunn
07GR001	GR	Е	2007	6	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GR001	GR	Е	2007	34	SOIL			Bill Dunn
07GR001	GR	F	2007	3	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GR001	GR	F	2007	37	LITTER			Bill Dunn
07GR001	GR	F	2007	1	QUEHAV	QUHA3	Quercus havardii	Bill Dunn
07GR001	GR	F	2007	10	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GR001	GR	F	2007	49	SOIL			Bill Dunn
07GR001	GR	G	2007	1	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GR001	GR	G	2007	1	BOUCUR	BOCU	Bouteloua curtipendula	Bill Dunn
07GR001	GR	G	2007	1	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GR001	GR	G	2007	36	LITTER			Bill Dunn
07GR001	GR	G	2007	15	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GR001	GR	G	2007	45	SOIL			Bill Dunn
07GR001	GR	G	2007	1	YUCGLA	YUGL	Yucca glauca	Bill Dunn
07GR001	GR	Н	2007	1	ARIPUR	ARPU9	Aristida purpurea	Bill Dunn
07GR001	GR	Н	2007	3	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GR001	GR	Н	2007	1	DUNG			Bill Dunn
07GR001	GR	Н	2007	2	ERASEC	ERSE	Eragrostis secundiflora	Bill Dunn
07GR001	GR	Н	2007	37	LITTER			Bill Dunn
07GR001	GR	Н	2007	1	QUEHAV	QUHA3	Quercus havardii	Bill Dunn
07GR001	GR	Н	2007	14	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GR001	GR	Н	2007	41	SOIL			Bill Dunn
07GY001	GY	Α	2007	2	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GY001	GY	Α	2007	9	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GY001	GY	Α	2007	24	LITTER			Bill Dunn
07GY001	GY	Α	2007	2	PASSET	PASE5	Paspalum setaceum	Bill Dunn

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GY001	GY	Α	2007	12	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GY001	GY	Α	2007	50	SOIL			Bill Dunn
07GY001	GY	В	2007	2	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GY001	GY	В	2007	1	BOUCUR	BOCU	Bouteloua curtipendula	Bill Dunn
07GY001	GY	В	2007	6	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GY001	GY	В	2007	33	LITTER			Bill Dunn
07GY001	GY	В	2007	1	PARJAM	PAJA	Paronychia jamesii	Bill Dunn
07GY001	GY	В	2007	2	PASSET	PASE5	Paspalum setaceum	Bill Dunn
07GY001	GY	В	2007	13	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GY001	GY	В	2007	41	SOIL			Bill Dunn
07GY001	GY	В	2007	1	YUCGLA	YUGL	Yucca glauca	Bill Dunn
07GY001	GY	С	2007	1	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GY001	GY	С	2007	1	BOUCUR	BOCU	Bouteloua curtipendula	Bill Dunn
07GY001	GY	С	2007	1	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GY001	GY	С	2007	45	LITTER			Bill Dunn
07GY001	GY	С	2007	1	PARJAM	PAJA	Paronychia jamesii	Bill Dunn
07GY001	GY	С	2007	13	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GY001	GY	С	2007	38	SOIL		·	Bill Dunn
07GY001	GY	D	2007	1	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GY001	GY	D	2007	1	DUNG			Bill Dunn
07GY001	GY	D	2007	34	LITTER			Bill Dunn
07GY001	GY	D	2007	2	PASSET	PASE5	Paspalum setaceum	Bill Dunn
07GY001	GY	D	2007	12	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GY001	GY	D	2007	50	SOIL		·	Bill Dunn
07GY001	GY	Е	2007	1	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GY001	GY	Е	2007	3	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GY001	GY	Е	2007	50	LITTER			Bill Dunn
07GY001	GY	Е	2007	10	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GY001	GY	Е	2007	34	SOIL			Bill Dunn
07GY001	GY	Е	2007	1	YUCGLA	YUGL	Yucca glauca	Bill Dunn
07GY001	GY	F	2007	1	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GY001	GY	F	2007	1	BOUCUR	BOCU	Bouteloua curtipendula	Bill Dunn
07GY001	GY	F	2007	3	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GY001	GY	F	2007	1	DUNG			Bill Dunn
07GY001	GY	F	2007	35	LITTER			Bill Dunn
07GY001	GY	F	2007	2	PASSET	PASE5	Paspalum setaceum	Bill Dunn

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GY001	GY	F	2007	15	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GY001	GY	F	2007	41	SOIL			Bill Dunn
07GY001	GY	G	2007	2	ARIPUR	ARPU9	Aristida purpurea	Bill Dunn
07GY001	GY	G	2007	1	BOUCUR	BOCU	Bouteloua curtipendula	Bill Dunn
07GY001	GY	G	2007	3	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GY001	GY	G	2007	36	LITTER			Bill Dunn
07GY001	GY	G	2007	1	PASSET	PASE5	Paspalum setaceum	Bill Dunn
07GY001	GY	G	2007	1	QUEHAV	QUHA3	Quercus havardii	Bill Dunn
07GY001	GY	G	2007	12	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GY001	GY	G	2007	42	SOIL			Bill Dunn
07GY001	GY	Н	2007	3	ANDHAL	ANHA	Andropogon hallii	Bill Dunn
07GY001	GY	Н	2007	2	BOUHIR	BOHI2	Bouteloua hirsuta	Bill Dunn
07GY001	GY	Н	2007	3	DUNG			Bill Dunn
07GY001	GY	Н	2007	1	ERASEC	ERSE	Eragrostis secundiflora	Bill Dunn
07GY001	GY	Н	2007	44	LITTER			Bill Dunn
07GY001	GY	Н	2007	10	SCHSCO	SCSC	Schizachyrium scoparium	Bill Dunn
07GY001	GY	Н	2007	36	SOIL			Bill Dunn
07GC001	GC	Α	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GC001	GC	Α	2009	1	ERASEC	ERSE	Eragrostis secundiflora	Conor Flynn
07GC001	GC	Α	2009	62	LITTER			Conor Flynn
07GC001	GC	Α	2009	1	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GC001	GC	Α	2009	1	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GC001	GC	Α	2009	4	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GC001	GC	Α	2009	29	SOIL			Conor Flynn
07GC001	GC	Α	2009	1	SPOCRY	SPCR	Sporobolus cryptandrus	Conor Flynn
07GC001	GC	В	2009	2	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GC001	GC	В	2009	59	LITTER			Conor Flynn
07GC001	GC	В	2009	3	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GC001	GC	В	2009	10	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GC001	GC	В	2009	26	SOIL			Conor Flynn
07GC001	GC	С	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GC001	GC	С	2009	1	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GC001	GC	С	2009	51	LITTER			Conor Flynn
07GC001	GC	С	2009	5	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GC001	GC	С	2009	42	SOIL			Conor Flynn

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GC001	GC	D	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GC001	GC	D	2009	3	ERASEC	ERSE	Eragrostis secundiflora	Conor Flynn
07GC001	GC	D	2009	59	LITTER			Conor Flynn
07GC001	GC	D	2009	1	PARJAM	PAJA	Paronychia jamesii	Conor Flynn
07GC001	GC	D	2009	2	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GC001	GC	D	2009	11	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GC001	GC	D	2009	23	SOIL			Conor Flynn
07GC001	GC	Е	2009	2	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GC001	GC	Е	2009	58	LITTER			Conor Flynn
07GC001	GC	Е	2009	2	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GC001	GC	Е	2009	2	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GC001	GC	Е	2009	12	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GC001	GC	Е	2009	24	SOIL			Conor Flynn
07GC001	GC	F	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GC001	GC	F	2009	2	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GC001	GC	F	2009	4	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GC001	GC	F	2009	45	LITTER			Conor Flynn
07GC001	GC	F	2009	1	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GC001	GC	F	2009	11	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GC001	GC	F	2009	36	SOIL			Conor Flynn
07GC001	GC	G	2009	2	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GC001	GC	G	2009	2	ERASEC	ERSE	Eragrostis secundiflora	Conor Flynn
07GC001	GC	G	2009	1	GUTSAR	GUSA2	Gutierrezia sarothrae	Conor Flynn
07GC001	GC	G	2009	64	LITTER			Conor Flynn
07GC001	GC	G	2009	1	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GC001	GC	G	2009	7	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GC001	GC	G	2009	23	SOIL			Conor Flynn
07GC001	GC	Н	2009	3	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GC001	GC	Н	2009	50	LITTER			Conor Flynn
07GC001	GC	Н	2009	1	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GC001	GC	Н	2009	2	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GC001	GC	Н	2009	15	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GC001	GC	Н	2009	29	SOIL			Conor Flynn
07GR001	GR	Α	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GR001	GR	Α	2009	2	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GR001	GR	Α	2009	1	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GR001	GR	Α	2009	54	LITTER			Conor Flynn
07GR001	GR	Α	2009	1	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GR001	GR	Α	2009	7	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GR001	GR	Α	2009	34	SOIL			Conor Flynn
07GR001	GR	В	2009	6	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GR001	GR	В	2009	1	DUNG			Conor Flynn
07GR001	GR	В	2009	2	GUTSAR	GUSA2	Gutierrezia sarothrae	Conor Flynn
07GR001	GR	В	2009	59	LITTER			Conor Flynn
07GR001	GR	В	2009	2	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GR001	GR	В	2009	1	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GR001	GR	В	2009	9	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GR001	GR	В	2009	20	SOIL			Conor Flynn
07GR001	GR	С	2009	2	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GR001	GR	С	2009	2	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GR001	GR	С	2009	3	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GR001	GR	С	2009	58	LITTER			Conor Flynn
07GR001	GR	С	2009	9	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GR001	GR	С	2009	24	SOIL			Conor Flynn
07GR001	GR	С	2009	1	SPOCRY	SPCR	Sporobolus cryptandrus	Conor Flynn
07GR001	GR	С	2009	1	XANSPI2	MAPI	Xanthisma spinulosum	Conor Flynn
07GR001	GR	D	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GR001	GR	D	2009	1	BOUCUR	BOCU	Bouteloua curtipendula	Conor Flynn
07GR001	GR	D	2009	3	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GR001	GR	D	2009	1	DUNG			Conor Flynn
07GR001	GR	D	2009	49	LITTER			Conor Flynn
07GR001	GR	D	2009	2	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GR001	GR	D	2009	16	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GR001	GR	D	2009	26	SOIL			Conor Flynn
07GR001	GR	D	2009	1	XANSPI2	MAPI	Xanthisma spinulosum	Conor Flynn
07GR001	GR	E	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GR001	GR	Е	2009	1	CALSER	CASE12	Calylophus serrulatus	Conor Flynn
07GR001	GR	E	2009	61	LITTER			Conor Flynn

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GR001	GR	E	2009	12	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GR001	GR	E	2009	25	SOIL		•	Conor Flynn
07GR001	GR	F	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GR001	GR	F	2009	1	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GR001	GR	F	2009	59	LITTER			Conor Flynn
07GR001	GR	F	2009	7	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GR001	GR	F	2009	32	SOIL			Conor Flynn
07GR001	GR	G	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GR001	GR	G	2009	1	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GR001	GR	G	2009	1	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GR001	GR	G	2009	1	DUNG			Conor Flynn
07GR001	GR	G	2009	1	ERASEC	ERSE	Eragrostis secundiflora	Conor Flynn
07GR001	GR	G	2009	55	LITTER			Conor Flynn
07GR001	GR	G	2009	3	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GR001	GR	G	2009	14	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GR001	GR	G	2009	22	SOIL			Conor Flynn
07GR001	GR	Н	2009	5	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GR001	GR	Н	2009	4	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GR001	GR	Н	2009	45	LITTER			Conor Flynn
07GR001	GR	Н	2009	1	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GR001	GR	Н	2009	19	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GR001	GR	Н	2009	24	SOIL			Conor Flynn
07GR001	GR	Н	2009	2	SPOCRY	SPCR	Sporobolus cryptandrus	Conor Flynn
07GY001	GY	Α	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GY001	GY	Α	2009	10	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GY001	GY	Α	2009	43	LITTER			Conor Flynn
07GY001	GY	Α	2009	2	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GY001	GY	Α	2009	9	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GY001	GY	Α	2009	35	SOIL			Conor Flynn
07GY001	GY	В	2009	2	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GY001	GY	В	2009	1	BOUCUR	BOCU	Bouteloua curtipendula	Conor Flynn
07GY001	GY	В	2009	4	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GY001	GY	В	2009	54	LITTER			Conor Flynn
07GY001	GY	В	2009	1	PASSET	PASE5	Paspalum setaceum	Conor Flynn

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GY001	GY	В	2009	1	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GY001	GY	В	2009	12	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GY001	GY	В	2009	23	SOIL			Conor Flynn
07GY001	GY	В	2009	1	SPOCRY	SPCR	Sporobolus cryptandrus	Conor Flynn
07GY001	GY	В	2009	1	YUCGLA	YUGL	Yucca glauca	Conor Flynn
07GY001	GY	С	2009	1	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GY001	GY	С	2009	1	BOUCUR	BOCU	Bouteloua curtipendula	Conor Flynn
07GY001	GY	С	2009	4	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GY001	GY	С	2009	50	LITTER			Conor Flynn
07GY001	GY	С	2009	1	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GY001	GY	С	2009	12	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GY001	GY	С	2009	31	SOIL			Conor Flynn
07GY001	GY	D	2009	2	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GY001	GY	D	2009	3	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GY001	GY	D	2009	46	LITTER			Conor Flynn
07GY001	GY	D	2009	1	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GY001	GY	D	2009	18	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GY001	GY	D	2009	29	SOIL			Conor Flynn
07GY001	GY	D	2009	1	SPOCRY	SPCR	Sporobolus cryptandrus	Conor Flynn
07GY001	GY	E	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GY001	GY	E	2009	1	ARIPUR	ARPU9	Aristida purpurea	Conor Flynn
07GY001	GY	E	2009	4	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GY001	GY	E	2009	58	LITTER			Conor Flynn
07GY001	GY	E	2009	1	PARJAM	PAJA	Paronychia jamesii	Conor Flynn
07GY001	GY	E	2009	12	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GY001	GY	E	2009	21	SOIL			Conor Flynn
07GY001	GY	E	2009	1	SPOCRY	SPCR	Sporobolus cryptandrus	Conor Flynn
07GY001	GY	E	2009	1	YUCGLA	YUGL	Yucca glauca	Conor Flynn
07GY001	GY	F	2009	1	ANDHAL	ANHA	Andropogon hallii	Conor Flynn
07GY001	GY	F	2009	3	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GY001	GY	F	2009	1	DUNG			Conor Flynn
07GY001	GY	F	2009	40	LITTER			Conor Flynn
07GY001	GY	F	2009	1	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GY001	GY	F	2009	17	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn

PlotID	Treatment	Transect	Year	Cover	GCclass	NM_K_Symbol	NMSpName	Surveyor
07GY001	GY	F	2009	37	SOIL			Conor Flynn
07GY001	GY	G	2009	1	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GY001	GY	G	2009	54	LITTER			Conor Flynn
07GY001	GY	G	2009	2	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GY001	GY	G	2009	1	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GY001	GY	G	2009	15	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GY001	GY	G	2009	27	SOIL			Conor Flynn
07GY001	GY	Н	2009	2	BOUHIR	BOHI2	Bouteloua hirsuta	Conor Flynn
07GY001	GY	Н	2009	1	DUNG			Conor Flynn
07GY001	GY	Н	2009	48	LITTER			Conor Flynn
07GY001	GY	Н	2009	1	PASSET	PASE5	Paspalum setaceum	Conor Flynn
07GY001	GY	Н	2009	2	QUEHAV	QUHA3	Quercus havardii	Conor Flynn
07GY001	GY	Н	2009	12	SCHSCO	SCSC	Schizachyrium scoparium	Conor Flynn
07GY001	GY	Н	2009	31	SOIL			Conor Flynn
07GY001	GY	Н	2009	2	SPOCRY	SPCR	Sporobolus cryptandrus	Conor Flynn
07GY001	GY	Н	2009	1	YUCGLA	YUGL	Yucca glauca	Conor Flynn

Table B4. Raw floristic data by quadrat at the Mesquite Treatment Area (MTA).

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	1A	0	6	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	1A	0	2	CENSPI	CESP4	Cenchrus spinifex	3	
							Chamaesyce		
2008	MT	1A	0	0.5	CHAGLY	CHGL13	glyptosperma	4	
2008	MT	1A	0	22	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	1A	0	95	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	1A	0	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	1A	0	15	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	1A	10	36	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	1A	10	4	CENSPI	CESP4	Cenchrus spinifex	3	
							Chamaesyce		
2008	MT	1A	10	0.1	CHAGLY	CHGL13	glyptosperma	4	
2008	MT	1A	10	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	1A	10	5	ZINGRA	ZIGR	Zinnia grandiflora	4	
2008	MT	1A	40	7	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	1A	40	40	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2008	MT	1A	40	0.1	CHAGLY	CHGL13	glyptosperma	4	
2008	MT	1A	40	0.5	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2008	MT	1A	40	5	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	1A	40	12	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	1A	40	3	ZINGRA	ZIGR	Zinnia grandiflora	4	
2008	MT	1A	50	60	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	1A	50	2	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	1A	50	90	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	1A	50	1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	1A	50	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	1B	0	30	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	1B	0	3	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	1B	0	1	CENSPI	CESP4	Cenchrus spinifex	3	
							Chamaesyce		
2008	MT	1B	0	0.5	CHAGLY	CHGL13	glyptosperma	4	
2008	MT	1B	0	1	ELYELY	ELEL5	Elymus elymoides	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	1B	0	3	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	1B	0	0.5	PHYSAL	PHYSA	Physalis spp.	4	
2008	MT	1B	0	80	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	1B	0	1	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2008	MT	1B	0	1	TEULAC	TELA	Teucrium laciniatum	4	
2008	MT	1B	10	45	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	1B	10	5	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
							Mimosa aculeaticarpa		
2008	MT	1B	10	10	MIMACUB	MIACB	var. biuncifera	2	
2008	MT	1B	10	20	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	1B	10	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	1B	10	20	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	1B	40	15	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	1B	40	45	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	1B	40	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	1B	40	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	1B	50	40	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	1B	50	22	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	1B	50	1	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	1B	50	1	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	1B	50	1	PHYSAL	PHYSA	Physalis spp.	4	
2008	MT	1B	50	90	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	1B	50	0.5	TEULAC	TELA	Teucrium laciniatum	4	
2008	MT	1B	50	0.5	ZINGRA	ZIGR	Zinnia grandiflora	4	
2008	MT	1C	0	1	CIRUND	CIUN	Cirsium undulatum	4	
2008	MT	1C	0	3	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	1C	0	98	MUHPOR	MUPO2	Muhlenbergia porteri	3	
2008	MT	1C	0	80	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	1C	0	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	1C	0	0.5	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2008	MT	1C	10	8	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2008	MT	1C	10	1	CHAGLY	CHGL13	glyptosperma	4	
2008	MT	1C	10	1	CHALAT	CHLA10	Chamaesyce lata	4	
2008	MT	1C	10	1	CIRUND	CIUN	Cirsium undulatum	4	
2008	MT	1C	10	18	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	1C	10	2	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	1C	10	1.5	PHYSAL	PHYSA	Physalis spp.	4	
2008	MT	1C	10	2	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	1C	10	0.5	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	1C	10	10	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	1C	40	1	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	1C	40	33	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	1C	40	1	MUHARE2	MUAR2	Muhlenbergia arenicola	3	
2008	MT	1C	40	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	1C	50	22	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	1C	50	3	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	1C	50	2	ERACUR	ERCU	Eragrostis curtipedicellata	3	PANICU- 07MT001-G9, 2008 - keyed to ERACUR
2008	MT	1C	50	65	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	1C	50	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	2A	0	4	CENSPI	CESP4	Cenchrus spinifex	3	
2008	MT	2A	0	2	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	2A	0	95	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	2A	0	3	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	2A	0	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	2A	10	12	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	2A	10	0.5	CHAERI	CHER2	Chaetopappa ericoides	4	
2008	MT	2A	10	45	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	2A	10	10	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	2A	40	18	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	2A	40	3	CENSPI	CESP4	Cenchrus spinifex	3	
2008	MT	2A	40	25	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	2A	40	15	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	2A	40	2	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	2A	50	2	ARIPUR	ARPU9	Aristida purpurea	3	
2008	MT	2A	50	1	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	2A	50	0.5	CHAGLY	CHGL13	Chamaesyce glyptosperma	4	
2008	MT	2A	50	1	CIRUND	CIUN	Cirsium undulatum	4	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	2A	50	12	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	2A	50	90	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	2A	50	1	SALTRA	SATR12	Salsola tragus	4	
2008	MT	2A	50	2	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	2A	50	3	ZINGRA	ZIGR	Zinnia grandiflora	4	
2008	MT	2B	0	20	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	2B	0	2	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2008	MT	2B	0	0.5	CHAGLY	CHGL13	glyptosperma	4	
2008	MT	2B	0	2	ELYELY	ELEL5	Elymus elymoides	3	
									PANICU- 07MT001-G9,
							Eragrostis		2008 - keyed to
2008	MT	2B	0	3	ERACUR	ERCU	curtipedicellata	3	ERACUR
2008	MT	2B	0	90	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	2B	0	2	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	2B	10	43	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	2B	10	1	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	2B	40	1	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	2B	40	43	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2008	MT	2B	40	6	CHAGLY	CHGL13	glyptosperma	4	
	l			_			Mimosa aculeaticarpa	_	
2008	MT	2B	40	2	MIMACUB	MIACB	var. biuncifera	2	
2008	MT	2B	40	0.5	MUNSQU	MUSQ3	Munroa squarrosa	3	
2008	MT	2B	40	17	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	2B	40	2	POROLE	POOL	Portulaca oleracea	4	
2008	MT	2B	40	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	2B	50	30	ARIPUR	ARPU9	Aristida purpurea	3	
2008	MT	2B	50	10	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	2B	50	2	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	2B	50	90	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	2B	50	15	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2008	MT	2C	0	15	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	2C	0	2	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	2C	0	2	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	2C	0	20	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	2C	0	0.5	PHYSAL	PHYSA	Physalis spp.	4	
2008	MT	2C	0	75	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	2C	0	1	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2008	MT	2C	10	20	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	2C	10	35	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	2C	10	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	2C	40	70	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	2C	40	2	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	2C	40	1	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	2C	50	15	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	2C	50	10	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	2C	50	3	ERACUR	ERCU	Eragrostis curtipedicellata	3	PANICU- 07MT001-G9, 2008 - keyed to ERACUR
2008	MT	2C	50	1	MUHPOR	MUPO2	Muhlenbergia porteri	3	
2008	MT	2C	50	80	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	2C	50	5	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	3A	0	15	CENSPI	CESP4	Cenchrus spinifex	3	
2008	MT	3A	0	3	CHAGLY	CHGL13	Chamaesyce glyptosperma	4	
2008	MT	3A	0	1	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	3A	0	95	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	3A	0	1	SOLROS	SORO	Solanum rostratum	4	
2008	MT	3A	0	8	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	3A	10	33	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	3A	10	13	CENSPI	CESP4	Cenchrus spinifex	3	
2008	MT	3A	10	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	3A	10	2	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	3A	40	45	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	3A	40	2	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	3A	40	10	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	3A	40	0.5	PHYSAL	PHYSA	Physalis spp.	4	
2008	MT	3A	40	4	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	3A	50	1	CHAGLY	CHGL13	Chamaesyce glyptosperma	4	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	3A	50	1	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	3A	50	2	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	3A	50	60	MUHPOR	MUPO2	Muhlenbergia porteri	3	
2008	MT	3A	50	80	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	3A	50	0.5	TEULAC	TELA	Teucrium laciniatum	4	
2008	MT	3B	0	5	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	3B	0	0.5	CHALAT	CHLA10	Chamaesyce lata	4	
2008	MT	3B	0	30	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	3B	0	2	PHYSAL	PHYSA	Physalis spp.	4	
2008	MT	3B	0	95	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	3B	0	1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	3B	0	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	3B	0	0.5	ZINGRA	ZIGR	Zinnia grandiflora	4	
2008	MT	3B	10	0.5	BERLYR	BELY	Berlandiera lyrata	4	
2008	MT	3B	10	45	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	3B	10	3	BUCDAC	BUDA	Buchloe dactyloides	3	
							Mimosa aculeaticarpa		
2008	MT	3B	10	28	MIMACUB	MIACB	var. biuncifera	2	
2008	MT	3B	10	28	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	3B	10	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	3B	40	60	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	3B	40	1	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	3B	40	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	3B	50	1	ARIPUR	ARPU9	Aristida purpurea	3	
2008	MT	3B	50	30	ELYELY	ELEL5	Elymus elymoides	3	
0000	N.4T	0.0	50	4.5		1414.00	Mimosa aculeaticarpa		
2008	MT	3B	50	15	MIMACUB	MIACB	var. biuncifera	2	
2008	MT	3B	50	2	PARCONL	PACOL	Parthenium confertum var. lyratum	_	
2008	MT	3B	50	2 85	PROGLA	PRGL2	Prosopis glandulosa	2	
	MT	3В	50	3					
2008	MT				SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	3B 3B	50 50	2	SPOCRY	SPCR ZIGR	Sporobolus cryptandrus	3 4	
2008		3B		3	ZINGRA		Zinnia grandiflora		
2008	MT		0		BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	3C	0	15	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	3C	0	2	ELYELY	ELEL5	Elymus elymoides	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	3C	0	2	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	3C	0	1	PHYSAL	PHYSA	Physalis spp.	4	
2008	MT	3C	0	80	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	3C	0	6	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2008	MT	3C	10	65	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	3C	10	1	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	3C	10	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	3C	10	1	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2008	MT	3C	40	20	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	3C	40	18	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2008	MT	3C	40	0.5	CHAGLY	CHGL13	glyptosperma	4	
									PANICU-
									07MT001-G9,
0000		00	40		ED 4 01 1D	EDOLL	Eragrostis		2008 - keyed to
2008	MT	3C	40	2	ERACUR	ERCU	curtipedicellata	3	ERACUR
2008	MT	3C	40	3	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	3C	40	1	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2008	MT	3C	40	40	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	3C	40	3	ZINGRA	ZIGR	Zinnia grandiflora	4	
2008	MT	3C	50	15	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	3C	50	5	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	3C	50	0.5	PHYSAL	PHYSA	Physalis spp.	4	
2008	MT	3C	50	85	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	3C	50	2	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2008	MT	4A	0	2	CENSPI	CESP4	Cenchrus spinifex	3	
					0114 0114	01101.40	Chamaesyce	_	
2008	MT	4A	0	0.5	CHAGLY	CHGL13	glyptosperma	4	
2008	MT	4A	0	1	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	4A	0	85	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	4A	0	2	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	4A	0	1	SOLROS	SORO	Solanum rostratum	4	
2008	MT	4A	0	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	4A	10	1	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	4A	10	7	CENSPI	CESP4	Cenchrus spinifex	3	
2008	MT	4A	10	0.5	CHAGLY	CHGL13	Chamaesyce glyptosperma	4	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	4A	10	1	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	4A	10	12	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	4A	10	10	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	4A	10	30	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	4A	40	3	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	4A	40	2	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	4A	40	10	CENSPI	CESP4	Cenchrus spinifex	3	
							Chamaesyce		
2008	MT	4A	40	0.5	CHAGLY	CHGL13	glyptosperma	4	
2008	MT	4A	40	6	DYSPAP	DYPA	Dyssodia papposa	4	
2008	MT	4A	40	17	MUNSQU	MUSQ3	Munroa squarrosa	3	
2008	MT	4A	40	1	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	4A	40	3	SOLROS	SORO	Solanum rostratum	4	
2008	MT	4A	40	5	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	4A	40	25	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	4A	50	18	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	4A	50	4	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2008	MT	4A	50	2	CHAGLY	CHGL13	glyptosperma	4	
2008	MT	4A	50	60	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	4A	50	1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	4A	50	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	4A	50	10	ZINGRA	ZIGR	Zinnia grandiflora	4	
2008	MT	4B	0	30	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	4B	0	4	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	4B	0	85	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	4B	0	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	4B	10	25	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	4B	10	1	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	4B	40	1	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	4B	40	47	BOUGRA	BOGR2	Bouteloua gracilis	3	
									MUHARE2(G1
2008	MT	4B	40	1	MUHARE2	MUAR2	Muhlenbergia arenicola	3	8)
2008	MT	4B	40	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	4B	50	1	ASCVIR	ASVI	Asclepias viridiflora	4	ASCASP(07MT 001-F-8, 2008)

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
									keyed to ASCVIR
2008	MT	4B	50	2	BOUGRA	BOGR2	Bouteloua gracilis	3	ASCVIK
2008	MT	4B	50	1	CHALAT	CHLA10	Chamaesyce lata	4	
2008	MT	4B	50	13	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	4B	50	70	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	4C	0		ARIPUR	ARPU9	Aristida purpurea	3	
2008	MT	4C	0	30	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	4C	0	1	CHALAT	CHLA10	Chamaesyce lata	4	
2008	MT	4C	0	0.5	CIRUND	CIUN	Cirsium undulatum	4	
2008	MT	4C	0	20	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	4C	0	80	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	4C	10	5	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	4C	10	58	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	4C	40	0.5	BERLYR	BELY	Berlandiera lyrata	4	
2008	MT	4C	40	15	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	4C	40	55	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	4C	50	23	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	4C	50	2	CENSPI	CESP4	Cenchrus spinifex	3	
2008	MT	4C	50	1	CHALAT	CHLA10	Chamaesyce lata	4	
2008	MT	4C	50	20	ELYELY	ELEL5	Elymus elymoides	3	
							Eragrostis		PANICU- 07MT001-G9, 2008 - keyed to
2008	MT	4C	50	12	ERACUR	ERCU	curtipedicellata	3	ERACUR
2008	MT	4C	50	5	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	4C	50	0.5	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	4C	50	85	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	5A	0	1	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	5A	0	3	CENSPI	CESP4	Cenchrus spinifex	3	
2008	MT	5A	0	60	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	5A	0	1	SALREF	SARE3	Salvia reflexa	4	
2008	MT	5A	0	4	SOLROS	SORO	Solanum rostratum	4	
2008	MT	5A	0	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	5A	0	0.5	TEULAC	TELA	Teucrium laciniatum	4	
2008	MT	5A	10	28	BOUGRA	BOGR2	Bouteloua gracilis	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	5A	10	20	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	5A	10	2	CENSPI	CESP4	Cenchrus spinifex	3	
2008	MT	5A	10	1	ELYELY	ELEL5	Elymus elymoides	3	
							Mimosa aculeaticarpa		
2008	MT	5A	10	8	MIMACUB	MIACB	var. biuncifera	2	
2008	MT	5A	10	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	5A	10	0.5	SOLROS	SORO	Solanum rostratum	4	
2008	MT	5A	10	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	5A	10	30	YUCGLA	YUGL	Yucca glauca	2	
2008	MT	5A	40	2	ARIPUR	ARPU9	Aristida purpurea	3	
2008	MT	5A	40	5	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	5A	40	1	CHALAT	CHLA10	Chamaesyce lata	4	
2008	MT	5A	40	38	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	5A	40	8	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	5A	40	0.5	TEULAC	TELA	Teucrium laciniatum	4	
2008	MT	5A	40	0.5	UNIDF		unidentified forb	4	UNIDF-F7
2008	MT	5A	50	2	CENSPI	CESP4	Cenchrus spinifex	3	
2008	MT	5A	50	2	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	5A	50	6	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	5A	50	1	PHYSAL	PHYSA	Physalis spp.	4	
2008	MT	5A	50	95	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	5A	50	0.5	SALREF	SARE3	Salvia reflexa	4	
2008	MT	5A	50	2	SOLELA	SOEL	Solanum elaeagnifolium	4	
2008	MT	5A	50	1	TEULAC	TELA	Teucrium laciniatum	4	
2008	MT	5A	50	2	UNIDF		unidentified forb	4	UNIDF-F7
2008	MT	5B	0	22	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	5B	0	1	CHALAT	CHLA10	Chamaesyce lata	4	
2008	MT	5B	0	2	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	5B	0	2	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
							Lithospermum		
2008	MT	5B	0	2	LITMUL	LIMU3	multiflorum	4	
2008	MT	5B	0	60	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	5B	0	2	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	5B	10	47	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	5B	10	0.1	TEULAC	TELA	Teucrium laciniatum	4	
2008	MT	5B	40	65	BOUGRA	BOGR2	Bouteloua gracilis	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2008	MT	5B	40	3	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	5B	40	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	5B	50	5	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	5B	50	4	CHALAT	CHLA10	Chamaesyce lata	4	
2008	MT	5B	50	12	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	5B	50	95	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	5B	50	4	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	5C	0	10	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	5C	0	9	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	5C	0	5	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2008	MT	5C	0	65	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	5C	0	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2008	MT	5C	10	6	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	5C	10	65	BUCDAC	BUDA	Buchloe dactyloides	3	
2008	MT	5C	40	50	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	5C	40	6	BUCDAC	BUDA	Buchloe dactyloides	3	
							Stephanomeria		
2008	MT	5C	40	0.5	STEPAU	STPA4	pauciflora	4	
2008	MT	5C	50	20	BOUERI	BOER4	Bouteloua eriopoda	3	
2008	MT	5C	50	8	BOUGRA	BOGR2	Bouteloua gracilis	3	
2008	MT	5C	50	1	COMERE	COER	Commelina erecta	4	
2008	MT	5C	50	8	ELYELY	ELEL5	Elymus elymoides	3	
2008	MT	5C	50	5	PANOBT	PAOB	Panicum obtusum	3	
2008	MT	5C	50	90	PROGLA	PRGL2	Prosopis glandulosa	2	
2008	MT	5C	50	4	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	1A	0	4	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	1A	0	0.5	CENSPI	CESP4	Cenchrus spinifex	3	
							Chamaesyce		
2009	MT	1A	0	1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	1A	0	1	CHLVER	CHVE2	Chloris verticillata	3	
									100%
									defoliation-
									dead; has been
2009	MT	1A	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	mechanically knocked down
2009	MT	1A	0	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	KITOCKEU UUWII
2009	MT	1A	0	4	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	IVII	IA	U	4	SFUCKI	JECK	Sporobolus cryptanurus	<u> </u>	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	1A	10	40	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	1A	10	7	CENSPI	CESP4	Cenchrus spinifex	3	
							Chamaesyce		
2009	MT	1A	10	0.5	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	1A	10	2	MUNSQU	MUSQ3	Munroa squarrosa	3	
2009	MT	1A	10	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	1A	10	3	ZINGRA	ZIGR	Zinnia grandiflora	4	
2009	MT	1A	40	7	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	1A	40	45	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2009	MT	1A	40	1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	1A	40	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	1A	40	0.5	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	1A	40	3	ZINGRA	ZIGR	Zinnia grandiflora	4	
2009	MT	1A	50	33	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	1A	50	2	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2009	MT	1A	50	2	CHAGLY	CHGL13	glyptosperma	4	
									98% defoliation,
2009	MT	1A	50	3	PROGLA	PRGL2	Prosopis glandulosa	2	some resprout
2009	MT	1A	50	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	Joine respiedt
2009	MT	1B	0	45	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	1B	0	3	BOUGRA	BOGR2	Bouteloua gracilis	3	
2003	IVII	10	0		DOGGINA	DOGINZ	Chamaesyce	3	
2009	мт	1B	0	1	CHAGLY	CHGL13	glyptosperma	4	
				<u> </u>	0	0.102.0	g., p. 100 p 0		90%
									defoliation,
2009	MT	1B	0	8	PROGLA	PRGL2	Prosopis glandulosa	2	some resprout
2009	MT	1B	0	0.5	SPOCRY	SPCR	Sporobolus cryptandrus	3	•
2009	MT	1B	0	0.1	UNIDF		unidentified forb	4	
2009	MT	1B	8	45	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	1B	8	0.5	CENSPI	CESP4	Cenchrus spinifex	3	
							Mimosa aculeaticarpa		
2009	MT	1B	8	10	MIMACUB	MIACB	var. biuncifera	2	
2009	MT	1B	8	7	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	1B	8	0.1	SPHCOC	SPCO	Sphaeralcea coccinea	4	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	1B	8	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	1B	8	5	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	1B	40	7	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	1B	40	42	BUCDAC	BUDA	Buchloe dactyloides	3	
2009	MT	1B	40	0.1	PORPIL	POPI3	Portulaca pilosa	4	
2009	MT	1B	40	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	1B	40	0.1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	1B	50	40	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	1B	50	8	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	1B	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	99% defoliation, some resprout
2009	MT	1C	0	1	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	1C	0	2	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	1C	0	3	CHLVER	CHVE2	Chloris verticillata	3	
2009	MT	1C	0	1	CIRUND	CIUN	Cirsium undulatum	4	
2009	MT	1C	0	1	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2009	MT	1C	0	85	MUHPOR	MUPO2	Muhlenbergia porteri	3	
2009	MT	1C	0	2	PROGLA	PRGL2	Prosopis glandulosa	2	98% defoliation, some resprout
2009	MT	1C	0	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	Joine respiedt
2009	MT	1C	0	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	1C	0	0.5	STEPAU	STPA4	Stephanomeria pauciflora	4	
2009	MT	1C	11	13	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	1C	11	0.1	CHAGLY	CHGL13	Chamaesyce glyptosperma	4	
2009	MT	1C	11	1	CHALAT	CHLA10	Chamaesyce lata	4	
2009	MT	1C	11	2	CHLVER	CHVE2	Chloris verticillata	3	
2000	MT	40	44	2	CUTOAR	CUCAO	O tiana is a south as	0.5	area across quad mechanically dragged, some YUCGLA&PRO GLA knocked
2009	MT	1C	11	3	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	over.

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	1C	11	2	MUHARE2	MUAR2	Muhlenbergia arenicola	3	
2009	MT	1C	11	1	PANOBT	PAOB	Panicum obtusum	3	
							Physalis cinerascens var.		
2009	MT	1C	11	1	PHYCINC	PHCIC3	cinerascens	4	
2009	MT	1C	11	4	SALTRA	SATR12	Salsola tragus	4	
2009	MT	1C	11	1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	1C	11	2	SPOCRY	SPCR	Sporobolus cryptandrus	3	
0000		10	4.4		V41001 A	V(10)			two track road starts at 12.5 and ends at
2009	MT	1C	11	29	YUCGLA	YUGL	Yucca glauca	2	15.7
2009	MT	1C	40	6	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	1C	40	28	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	1C	40	0.1	PORPIL	POPI3	Portulaca pilosa	4	
2009	MT	1C	50	2	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	1C	50	18	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	1C	50	8	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	1C	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	99% defoliation, some resprout
2009	MT	1C	50	2	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	1C	50	2	UNIDF		unidentified forb	4	
2009	MT	2A	0	15	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	2A	0	8	ARIPUR	ARPU9	Aristida purpurea	3	
2009	MT	2A	0	12	CENSPI	CESP4	Cenchrus spinifex	3	
2009	MT	2A	0	2	ERACUR	ERCU	Eragrostis curtipedicellata	3	
2009	MT	2A	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	95% defoliation, some resprout
2009	MT	2A	0	8	SOLROS	SORO	Solanum rostratum	4	
2009	MT	2A	0	5	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	2A	11	5	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	2A	11	1	CENSPI	CESP4	Cenchrus spinifex	3	
2009	MT	2A	11	0.1	CHAERI	CHER2	Chaetopappa ericoides	4	
2009	MT	2A	11	40	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	2A	11	8	SPOCRY	SPCR	Sporobolus cryptandrus	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	2A	40	16	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2009	MT	2A	40	1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	2A	40	2	CHLVER	CHVE2	Chloris verticillata	3	
							Eragrostis		
2009	MT	2A	40	2	ERACUR	ERCU	curtipedicellata	3	
2009	MT	2A	40	22	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	2A	40	4	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	2A	40	1	TEULAC	TELA	Teucrium laciniatum	4	
2009	MT	2A	40	10	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	2A	50	15	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	2A	50	5	ARIPUR	ARPU9	Aristida purpurea	3	
2009	MT	2A	50	4	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	2A	50	1	CIRUND	CIUN	Cirsium undulatum	4	
2009	MT	2A	50	2	ELYELY	ELEL5	Elymus elymoides	3	
			10		550014				99% defoliation,
2009	MT	2A	50	2	PROGLA	PRGL2	Prosopis glandulosa	2	some resprout
2009	MT	2A	50	1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	2A	50	8	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	2A	50	2	ZINGRA	ZIGR	Zinnia grandiflora	4	
2009	MT	2B	0	2	ARIPUR	ARPU9	Aristida purpurea	3	
2009	MT	2B	0	32	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	2B	0	3	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	2B	0	1	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	2B	0	1	ERACUR	ERCU	Eragrostis curtipedicellata	3	
									100% defoliation- dead; PROGLA has been mechaniclly
2009	MT	2B	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	knocked down
2009	MT	2B	10	52	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	2B	10	1	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	2B	40	2	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	2B	40	51	BOUGRA	BOGR2	Bouteloua gracilis	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	2B	40	1	BUCDAC	BUDA	Buchloe dactyloides	3	
							Chamaesyce		
2009	MT	2B	40	1	CHAGLY	CHGL13	glyptosperma	4	
							Eragrostis		
2009	MT	2B	40	0.5	ERACUR	ERCU	curtipedicellata	3	
							Mimosa aculeaticarpa	_	
2009	MT	2B	40	0.1	MIMACUB	MIACB	var. biuncifera	2	
2009	MT	2B	40	12	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	2B	40	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	2B	40	0.5	UNIDF		unidentified forb	4	
2009	MT	2B	50	75	ARIPUR	ARPU9	Aristida purpurea	3	
2009	MT	2B	50	18	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	2B	50	4	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	2B	50	1	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
									99%
								_	defoliation,
2009	MT	2B	50	0.5	PROGLA	PRGL2	Prosopis glandulosa	2	some resprout
2009	MT	2B	50	3	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2009	MT	2C	0	62	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	2C	0	1	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	2C	0	1	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
									100%
									defoliation-
									dead; PROGLA
									has been
0000	B 4	00	0	0	DD 0 0 1 4	DDOL 0	D		mechaniclly
2009	MT	2C	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	knocked down
2009	MT	2C	0	0.1	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2009	MT	2C	10	45	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	2C	10	18	BUCDAC	BUDA	Buchloe dactyloides	3	
2009	MT	2C	10	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	2C	40	55	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	2C	40	15	BUCDAC	BUDA	Buchloe dactyloides	3	
2009	MT	2C	40	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	2C	50	2	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	2C	50	15	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	2C	50	2	CHLVER	CHVE2	Chloris verticillata	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	2C	50	7	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	2C	50	2	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2009	MT	2C	50	4	PANHAL	PAHA	Panicum hallii	3	
2009	MT	2C	50	1	PHYCINC	PHCIC3	Physalis cinerascens var. cinerascens	4	
2003	IVII	20	30	<u>'</u>	111101110	1110103	GITCTUSCCTIS		100%
									defoliation-
2009	MT	2C	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	dead
2009	MT	2C	50	0.5	SALTRA	SATR12	Salsola tragus	4	
2009	MT	2C	50	32	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	3A	0	1	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	3A	0	3	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	3A	0	8	CENSPI	CESP4	Cenchrus spinifex	3	
2009	MT	3A	0	4	CHLVER	CHVE2	Chloris verticillata	3	
							Eragrostis		
2009	MT	3A	0	7	ERACUR	ERCU	curtipedicellata	3	
2009	MT	3A	0	2	ERIANN	ERAN4	Eriogonum annuum	4	
									98%
	l <sub></sub>		_					_	defoliation,
2009	MT	3A	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	some resprout
2009	MT	3A	0	10	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	3A	10	0.5	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	3A	10	32	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	3A	10	10	CENSPI	CESP4	Cenchrus spinifex	3	
2009	MT	3A	10	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	3A	10	2	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	3A	10	1	XANTEX	XATE	Xanthisma texanum	4	
2009	MT	3A	40	45	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	3A	40	1	BUCDAC	BUDA	Buchloe dactyloides	3	
	l						Chamaesyce		
2009	MT	3A	40	0.1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	3A	40	6	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	3A	40	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	3A	40	6	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	3A	50	0.5	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	3A	50	3	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	3A	50	2	ELYELY	ELEL5	Elymus elymoides	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	3A	50	52	MUHPOR	MUPO2	Muhlenbergia porteri	3	
									100%
									defoliation-
2009	MT	3A	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	dead
2009	MT	3A	50	3	SALTRA	SATR12	Salsola tragus	4	
2009	MT	3A	50	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	3A	50	0.5	ZINGRA	ZIGR	Zinnia grandiflora	4	
2009	MT	3B	0	1	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	3B	0	42	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	3B	0	0.5	CHALAT	CHLA10	Chamaesyce lata	4	
							Eragrostis		
2009	MT	3B	0	1	ERACUR	ERCU	curtipedicellata	3	
									99%
					556614	55010			defoliation,
2009	MT	3B	0	1	PROGLA	PRGL2	Prosopis glandulosa	2	some resprout
2009	MT	3B	0	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	3B	0	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	3B	0	0.1	TEULAC	TELA	Teucrium laciniatum	4	
2009	MT	3B	10	80	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	3B	10	1	BUCDAC	BUDA	Buchloe dactyloides	3	
0000		0.0	4.0			N414.0D	Mimosa aculeaticarpa		
2009	MT	3B	10	4	MIMACUB	MIACB	var. biuncifera	2	
2009	MT	3B	10	8	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	3B	40	68	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	3B	40	2	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	3B	40	0.1	PORPIL	POPI3	Portulaca pilosa	4	
2009	MT	3B	40	0.1	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2009	MT	3B	50	15	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	3B	50	7	BOUGRA	BOGR2	Bouteloua gracilis	3	
						01101.40	Chamaesyce	_	
2009	MT	3B	50	0.5	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	3B	50	2	ELYELY	ELEL5	Elymus elymoides	3	
0000	NAT	0.0		40	NAINA A OLUB	MIAOD	Mimosa aculeaticarpa	_	
2009	MT	3B	50	18	MIMACUB	MIACB	var. biuncifera	2	4000/
									100% defoliation-
2000	NAT	2D	E0.	0	DDOCL A	DDCI 2	Drosonia alandulasa	2	
2009	MT	3B	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	dead

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	3B	50	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	3B	50	0.5	TEULAC	TELA	Teucrium laciniatum	4	
2009	MT	3B	50	0.1	UNIDF		unidentified forb	4	
2009	MT	3C	0	15	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	3C	0	20	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2009	MT	3C	0	1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	3C	0	0.1	GAUCOC	GACO5	Gaura coccinea	4	
2009	MT	3C	0	2	MUHARE2	MUAR2	Muhlenbergia arenicola	3	
							Physalis cinerascens var.		
2009	MT	3C	0	0.1	PHYCINC	PHCIC3	cinerascens	4	
									97%
					550014	55.01.0		_	defoliation,
2009	MT	3C	0	3	PROGLA	PRGL2	Prosopis glandulosa	2	some resprout
2009	MT	3C	0	3	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2009	MT	3C	0	0.5	TEULAC	TELA	Teucrium laciniatum	4	
2009	MT	3C	10	75	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	3C	10	0.1	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	3C	10	0.5	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2009	MT	3C	40	5	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	3C	40	48	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2009	MT	3C	40	0.1	CHAGLY	CHGL13	glyptosperma	4	
							Eragrostis	_	
2009	MT	3C	40	2	ERACUR	ERCU	curtipedicellata	3	
2009	MT	3C	40	0.1	GAUCOC	GACO5	Gaura coccinea	4	
2009	MT	3C	40	2	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	3C	40	0.5	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2009	MT	3C	40	2	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	3C	40	12	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	3C	50	6	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	3C	50	7	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	3C	50	6	CHLVER	CHVE2	Chloris verticillata	3	
2009	MT	3C	50	2	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	3C	50	3	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
		_					Physalis cinerascens var.		
2009	MT	3C	50	0.1	PHYCINC	PHCIC3	cinerascens	4	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
									100%
									defoliation-
2009	MT	3C	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	dead
2009	MT	3C	50	1	SPHCOC	SPCO	Sphaeralcea coccinea	4	
2009	MT	3C	50	1	TEULAC	TELA	Teucrium laciniatum	4	
2009	MT	3C	50	3	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	4A	0	23	ARIPUR	ARPU9	Aristida purpurea	3	
2009	MT	4A	0	2	CENSPI	CESP4	Cenchrus spinifex	3	
2009	MT	4A	0	1	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	4A	0	2	ERACUR	ERCU	Eragrostis curtipedicellata	3	
			,						100%
2009	MT	4A	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	defoliation
2009	MT	4A	0	8	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	4A	10	5	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	4A	10	5	CENSPI	CESP4	Cenchrus spinifex	3	
							Chamaesyce		
2009	MT	4A	10	0.1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	4A	10	6	PANOBT	PAOB	Panicum obtusum	3	
							Physalis cinerascens var.		
2009	MT	4A	10	2	PHYCINC	PHCIC3	cinerascens	4	
2009	MT	4A	10	8	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	4A	10	0.5	XANTEX	XATE	Xanthisma texanum	4	
2009	MT	4A	10	20	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	4A	40	2	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	4A	40	2	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	4A	40	4	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	4A	40	3	CENSPI	CESP4	Cenchrus spinifex	3	
							Chamaesyce		
2009	MT	4A	40	1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	4A	40	1	DYSPAP	DYPA	Dyssodia papposa	4	
2009	MT	4A	40	5	MUNSQU	MUSQ3	Munroa squarrosa	3	
2009	MT	4A	40	0.5	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	4A	40	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	4A	40	20	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	4A	50	1	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	4A	50	7	BOUERI	BOER4	Bouteloua eriopoda	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	4A	50	11	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2009	MT	4A	50	0.1	CHAGLY	CHGL13	glyptosperma	4	
							Eragrostis		
2009	MT	4A	50	0.5	ERACUR	ERCU	curtipedicellata	3	
								_	100%
2009	MT	4A	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	defoliation
2009	MT	4A	50	1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	4A	50	2	SOLROS	SORO	Solanum rostratum	4	
2009	MT	4A	50	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	4A	50	1	SPOFLE	SPFL2	Sporobolus flexuosus	3	
2009	MT	4A	50	5	ZINGRA	ZIGR	Zinnia grandiflora	4	
2009	MT	4B	0	1	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	4B	0	17	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	4B	0	1	ELYELY	ELEL5	Elymus elymoides	3	
									98% defoliation-
									mostly dead,
2009	MT	4B	0	3	PROGLA	PRGL2	Prosopis glandulosa	2	some resprout
2009	MT	4B	0	0.5	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	4B	11	50	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	4B	11	2	BUCDAC	BUDA	Buchloe dactyloides	3	
							Chamaesyce		
2009	MT	4B	11	0.1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	4B	40	0.5	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	4B	40	54	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	4B	40	1	MUHARE2	MUAR2	Muhlenbergia arenicola	3	
2009	MT	4B	50	1	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	4B	50	6	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2009	MT	4B	50	2	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	4B	50	0.1	CHALAT	CHLA10	Chamaesyce lata	4	
2009	MT	4B	50	6	ELYELY	ELEL5	Elymus elymoides	3	
									99.8%
									defoliation-
									mostly dead,
2009	MT	4B	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	some resprout

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	4C	0	16	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	4C	0	15	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2009	MT	4C	0	1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	4C	0	1	CIRUND	CIUN	Cirsium undulatum	4	
2009	MT	4C	0	2	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	4C	0	2	MUHARE2	MUAR2	Muhlenbergia arenicola	3	
									100% defoliation-
2009	MT	4C	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	dead
2009	MT	4C	10	8	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	4C	10	57	BUCDAC	BUDA	Buchloe dactyloides	3	
2009	MT	4C	40	0.5	BERLYR	BELY	Berlandiera lyrata	4	
2009	MT	4C	40	23	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	4C	40	55	BUCDAC	BUDA	Buchloe dactyloides	3	
2009	MT	4C	50	50	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	4C	50	3	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	4C	50	8	BUCDAC	BUDA	Buchloe dactyloides	3	
2009	MT	4C	50	7	ERACUR	ERCU	Eragrostis curtipedicellata	3	
2009	MT	4C	50	2	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	4C	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	100% defoliation- dead
2009	MT	5A	0	0.5	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	5A	0	1	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5A	0	2	CHLCUC	CHCU2	Chloris cucullata	3	
2009	MT	5A	0	5	ERACUR	ERCU	Eragrostis curtipedicellata	3	07MT001-G1, 2009
2009	MT	5A	0	1	MACTAN	MATA2	Machaeranthera tanacetifolia	4	
							B is also I beautiful		100% defoliation-
2009	MT	5A	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	dead
2009	MT	5A	0	5	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	5A	10	30	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5A	10	15	BUCDAC	BUDA	Buchloe dactyloides	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	5A	10	2	CENSPI	CESP4	Cenchrus spinifex	3	
2009	MT	5A	10	0.1	CHAGLY	CHGL13	Chamaesyce glyptosperma	4	
2009	MT	5A	10	15	MIMACUB	MIACB	Mimosa aculeaticarpa var. biuncifera	2	
2009	MT	5A	10	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	5A	10	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	5A	10	35	YUCGLA	YUGL	Yucca glauca	2	
2009	MT	5A	40	1.5	ARIPUR	ARPU9	Aristida purpurea	3	
2009	MT	5A	40	3	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5A	40	2	CENSPI	CESP4	Cenchrus spinifex	3	
2009	MT	5A	40	0.1	CHALAT	CHLA10	Chamaesyce lata	4	
2009	MT	5A	40	0.5	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2009	MT	5A	40	29	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	5A	40	1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	5A	40	5	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	5A	40	0.5	TEULAC	TELA	Teucrium laciniatum	4	
2009	MT	5A	50	3	CHLVER	CHVE2	Chloris verticillata	3	
2009	MT	5A	50	3	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	5A	50	18	PANOBT	PAOB	Panicum obtusum	3	
2009	MT	5A	50	0.5	PHYCINC	PHCIC3	Physalis cinerascens var. cinerascens	4	
2009	MT	5A	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	100% defoliation- dead
2009	MT	5A	50	0.1	SOLELA	SOEL	Solanum elaeagnifolium	4	
2009	MT	5A	50	1	TEULAC	TELA	Teucrium laciniatum	4	
2009	MT	5B	0	1	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	5B	0	13	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5B	0	0.1	CHALAT	CHLA10	Chamaesyce lata	4	
2009	MT	5B	0	3	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	5B	0	2	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2009	MT	5B	0	2	MOLVER	MOVE	Mollugo verticillata	4	Was UNID F1, 2009
2009	MT	5B	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	100% defoliation- dead

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
2009	MT	5B	0	1	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	5B	0	0.5	TEULAC	TELA	Teucrium laciniatum	4	
2009	MT	5B	10	58	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5B	40	72	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5B	40	0.5	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	5B	50	1	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	5B	50	5	BOUGRA	BOGR2	Bouteloua gracilis	3	
							Chamaesyce		
2009	MT	5B	50	0.1	CHAGLY	CHGL13	glyptosperma	4	
2009	MT	5B	50	7	ELYELY	ELEL5	Elymus elymoides	3	
									100%
								_	defoliation-
2009	MT	5B	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	dead
2009	MT	5B	50	3	SPOCRY	SPCR	Sporobolus cryptandrus	3	
2009	MT	5C	0	12	ARIDIV	ARDI5	Aristida divaricata	3	
2009	MT	5C	0	12	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5C	0	0.5	ELYELY	ELEL5	Elymus elymoides	3	
2009	MT	5C	0	2	GUTSAR	GUSA2	Gutierrezia sarothrae	2.5	
2009	MT	5C	0	0.5	MOLVER	MOVE	Mollugo verticillata	4	Was UNID F1, 2009
2009	MT	5C	0	0.1	PORPIL	POPI3	Portulaca pilosa	4	
2009	MT	5C	0	0	PROGLA	PRGL2	Prosopis glandulosa	2	100% defoliation- dead
2009	MT	5C	10	2	BOUERI	BOER4	Bouteloua eriopoda	3	ucuu
2009	MT	5C	10	5	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5C	10	75	BUCDAC	BUDA	Buchloe dactyloides	3	
2009	MT	5C	40	42	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5C	40	7	BUCDAC	BUDA	Buchloe dactyloides	3	
2000	1011	00	10	•	2002/10	BODA	Stephanomeria		
2009	MT	5C	40	0.5	STEPAU	STPA4	pauciflora	4	
2009	MT	5C	50	6	BOUERI	BOER4	Bouteloua eriopoda	3	
2009	MT	5C	50	8	BOUGRA	BOGR2	Bouteloua gracilis	3	
2009	MT	5C	50	6	ELYELY	ELEL5	Elymus elymoides	3	
							Eragrostis		
2009	MT	5C	50	5	ERACUR	ERCU	curtipedicellata	3	
2009	MT	5C	50	2	PANOBT	PAOB	Panicum obtusum	3	

Year	Treatment	Transect	Quad	Cover	ACRO1	NM_K_Symbol	NMSpName	LifeForm	Comments
									100%
									defoliation-
2009	MT	5C	50	0	PROGLA	PRGL2	Prosopis glandulosa	2	dead
2009	MT	5C	50	4	SPOCRY	SPCR	Sporobolus cryptandrus	3	

Table B5. Raw percent basal cover data based on transect line point intercept at the Mesquite Treatment Area (MTA).

Treatment	Year	Transect	Cover	ACRO	NM_K_Symbol	NMSpName	LifeForm	LifeFormName
MT	2009	1A	1	ARIDIV	ARDI5	Aristida divaricata	3	Graminoid
MT	2009	1A	1	BOUERI	BOER4	Bouteloua eriopoda	3	Graminoid
MT	2009	1A	25	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	1A	1	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	1A	1	CHAMAE2	CHAMA15	Chamaesyce spp.	4	Forb
MT	2009	1A	8	DUNG				Litter
MT	2009	1A	28	LITTER				Litter
MT	2009	1A	33	SOIL				Soil
MT	2009	1A	1	XANTEX	XATE	Xanthisma texanum	4	Forb
MT	2009	1A	1	YUCGLA	YUGL	Yucca glauca	2	Shrub
MT	2009	1B	14	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	1B	3	CHAMAE2	CHAMA15	Chamaesyce spp.	4	Forb
MT	2009	1B	1	DUNG				Litter
MT	2009	1B	45	LITTER				Litter
						Mimosa aculeaticarpa		
MT	2009	1B	1	MIMACUB	MIACB	var. biuncifera	2	Shrub
MT	2009	1B	1	MUHARE2	MUAR2	Muhlenbergia arenicola	3	Graminoid
MT	2009	1B	35	SOIL				Soil
MT	2009	1C	2	BOUERI	BOER4	Bouteloua eriopoda	3	Graminoid
MT	2009	1C	14	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	1C	2	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	1C	2	DUNG				Litter
MT	2009	1C	25	LITTER				Litter
MT	2009	1C	52	SOIL				Soil
MT	2009	1C	2	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	1C	1	YUCGLA	YUGL	Yucca glauca	2	Shrub
MT	2009	2A	5	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	2A	4	CENSPI	CESP4	Cenchrus spinifex	3	Graminoid
MT	2009	2A	1	CHAMAE2	CHAMA15	Chamaesyce spp.	4	Forb
MT	2009	2A	1	DUNG				Litter
MT	2009	2A	35	LITTER				Litter
MT	2009	2A	5	PANOBT	PAOB	Panicum obtusum	3	Graminoid
MT	2009	2A	45	SOIL				Soil

Treatment	Year	Transect	Cover	ACRO	NM_K_Symbol	NMSpName	LifeForm	LifeFormName
MT	2009	2A	2	SPOCRY	SPCR	Sporobolus cryptandrus	3	Graminoid
MT	2009	2A	1	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	2A	1	YUCGLA	YUGL	Yucca glauca	2	Shrub
MT	2009	2B	9	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	2B	6	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	2B	3	DUNG		·		Litter
MT	2009	2B	30	LITTER				Litter
MT	2009	2B	1	PANOBT	PAOB	Panicum obtusum	3	Graminoid
MT	2009	2B	34	SOIL				Soil
MT	2009	2B	17	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	2C	6	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	2C	7	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	2C	5	DUNG				Litter
MT	2009	2C	23	LITTER				Litter
MT	2009	2C	1	MUHARE2	MUAR2	Muhlenbergia arenicola	3	Graminoid
MT	2009	2C	38	SOIL				Soil
MT	2009	2C	20	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	3A	2	BOUERI	BOER4	Bouteloua eriopoda	3	Graminoid
MT	2009	3A	9	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	3A	1	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	3A	2	CENSPI	CESP4	Cenchrus spinifex	3	Graminoid
MT	2009	3A	1	CHAMAE2	CHAMA15	Chamaesyce spp.	4	Forb
MT	2009	3A	1	DUNG				Litter
MT	2009	3A	33	LITTER				Litter
MT	2009	3A	4	MUNSQU	MUSQ3	Munroa squarrosa	3	Graminoid
MT	2009	3A	1	PANOBT	PAOB	Panicum obtusum	3	Graminoid
MT	2009	3A	31	SOIL				Soil
MT	2009	3A	15	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	3B	1	ARIDIV	ARDI5	Aristida divaricata	3	Graminoid
MT	2009	3B	1	BOUERI	BOER4	Bouteloua eriopoda	3	Graminoid
MT	2009	3B	3	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	3B	2	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	3B	3	DUNG				Litter
MT	2009	3B	33	LITTER				Litter
MT	2009	3B	1	OPUPOL	OPPO	Opuntia polyacantha	2.5	Dwarf Shrub
MT	2009	3B	30	SOIL				Soil

Treatment	Year	Transect	Cover	ACRO	NM_K_Symbol	NMSpName	LifeForm	LifeFormName
MT	2009	3B	24	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	3B	2	YUCGLA	YUGL	Yucca glauca	2	Shrub
MT	2009	3C	9	BOUERI	BOER4	Bouteloua eriopoda	3	Graminoid
MT	2009	3C	3	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	3C	2	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	3C	25	LITTER				Litter
MT	2009	3C	39	SOIL				Soil
MT	2009	3C	20	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	3C	2	YUCGLA	YUGL	Yucca glauca	2	Shrub
MT	2009	4A	2	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	4A	8	CENSPI	CESP4	Cenchrus spinifex	3	Graminoid
MT	2009	4A	53	LITTER				Litter
MT	2009	4A	2	PANOBT	PAOB	Panicum obtusum	3	Graminoid
MT	2009	4A	30	SOIL				Soil
MT	2009	4A	4	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	4A	1	YUCGLA	YUGL	Yucca glauca	2	Shrub
MT	2009	4B	1	BOUERI	BOER4	Bouteloua eriopoda	3	Graminoid
MT	2009	4B	11	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	4B	5	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	4B	1	DUNG				Litter
MT	2009	4B	25	LITTER				Litter
MT	2009	4B	1	MUHARE2	MUAR2	Muhlenbergia arenicola	3	Graminoid
MT	2009	4B	45	SOIL				Soil
MT	2009	4B	11	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	4C	1	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	4C	8	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	4C	9	DUNG				Litter
MT	2009	4C	33	LITTER				Litter
MT	2009	4C	35	SOIL				Soil
MT	2009	4C	14	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	5A	1	BOUERI	BOER4	Bouteloua eriopoda	3	Graminoid
MT	2009	5A	13	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	5A	5	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	5A	1	DUNG				Litter
MT	2009	5A	32	LITTER				Litter
MT	2009	5A	2	PANOBT	PAOB	Panicum obtusum	3	Graminoid

Treatment	Year	Transect	Cover	ACRO	NM_K_Symbol	NMSpName	LifeForm	LifeFormName
MT	2009	5A	1	PANVIR	PAVI2	Panicum virgatum	3	Graminoid
MT	2009	5A	41	SOIL				Soil
MT	2009	5A	4	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	5B	1	BOUERI	BOER4 Bouteloua eriopoda		3	Graminoid
MT	2009	5B	1	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	5B	6	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	5B	6	DUNG				Litter
MT	2009	5B	32	LITTER				Litter
MT	2009	5B	35	SOIL				Soil
MT	2009	5B	19	UNIDG		unidentified graminoid	3	Graminoid
MT	2009	5C	7	BOUGRA	BOGR2	Bouteloua gracilis	3	Graminoid
MT	2009	5C	8	BUCDAC	BUDA	Buchloe dactyloides	3	Graminoid
MT	2009	5C	1	DUNG				Litter
MT	2009	5C	26	LITTER				Litter
MT	2009	5C	45	SOIL				Soil
MT	2009	5C	13	UNIDG		unidentified graminoid	3	Graminoid

Table B6. Raw percent mesquite defoliation and percent cover of ground cover elements at the Mesquite Treatment Area (MTA). Includes location information (angle and distance) for the mesquite quadrats.

	Treat-	Tran-		Quad			% Defol-	Tot	НС							Cow		
Year	ment	sect	Quad	Type	Distance	Angle	iation	Veg	С	L/BV	Soil	Gravel	Rock	Micro	Trash	Dung	Wood	Comments
																		Read
																		transect
																		quads N of line. No die
2008	MT	1A	0	MSQ	7	296	0		21	72	28	0	0	0	0	0		off
2000	1011	1/4	0	WOQ	,	230	0			12	20	0	0	0	0	0		Read
																		transect
																		quads to N
2008	MT	1A	10	TRAN					45	57	38	0	0	0	0	5		of line
																		Read
																		transect
0000		4.0	40	TDAN						00.0	40.4		0	_				quads to N
2008	MT	1A	40	TRAN					53	80.9	16.1	0	0	0	0	3		of line Read
																		transect
																		quads to N
																		of line.
																		Some die
																		off of pods
2008	MT	1A	50	MSQ	6.7	120	30		61	98	2	0	0	0	0	0		and leaves
																		Read
																		transect
2008	MT	1B	0	MSQ	3.5	110	50		35	100	0	0	0	0	0	0		quads to N of line
2008	IVI I	ID	U	IVISQ	3.5	110	50		35	100	U	U	U	U	U	U		Read
																		transect
																		quads to N
																		of line. 9-
																		13 M in
																		PROGLA
																		canopy.
																		Start quad
0000		45	40	TDAN						00	46	_				_		at 8 M, not
2008	MT	1B	10	TRAN					64	90	10	0	0	0	0	0		10 M.
																		Read transect
																		quads to N
2008	MT	1B	40	TRAN					59	72	28	0	0	0	0	0		of line
			.0						- 55	·-								Read
																		transect
2008	MT	1B	50	MSQ	2.2	60	40		62	100	0	0	0	0	0	0		quads to N

	Treat-	Tran-		Quad			% Defol-	Tot	НС							Cow		
Year	ment	sect	Quad	Type	Distance	Angle	iation	Veg	C	L/BV	Soil	Gravel	Rock	Micro	Trash	Dung	Wood	Comments
				,		J												of line
																		Read transect
																		quads to N
2008	MT	1C	0	MSQ	2.3	144	80		100	100	0	0	0	0	0	0		of line Read
																		transect
																		quads to N
																		of line. 10 M in
																		PROGLA
																		canopy. Start quad
																		at 11 M, not
																		10 M. Old rd starts
																		at 12.2 M
2000	NAT.	40	40	TDAN					45	74.0	25	0.1	0					Ends 16.2
2008	MT	1C	10	TRAN					15	71.9	25	0.1	0	0	0	3		M Read
																		transect
2008	МТ	1C	40	TRAN					35	42	57	0	0	0	0	1		quads to N of line
2000	IVII	10	70	HVAIN					55	72	- 57	0		0	0	'		Read
																		transect
2008	MT	1C	50	MSQ	4.6	285	70		25	90	10	0	0	0	0	0		quads to N of line
2008	MT	2A	0	MSQ	8	310	20		11	97	3	0	0	0	0	0		
																		10 M under
																		PROGLA canopy.
																		Start quad
2008	MT	2A	10	TRAN					63	70	30	0	0	0	0	0		at 11 M, not 10 M.
2008	MT	2A	40	TRAN					58	69	28	0	0	0	0	3		
2008	MT	2A	50	MSQ	3.3	220	60		20	99.5	0	0	0	0	0.5	0		
2008	MT	2B	0	MSQ	5	113	40		27	74	26	0	0	0	0	0		
2008	MT	2B	10	TRAN					43	58	42	0	0	0	0	0		
2008	MT	2B	40	TRAN					67	68	32	0	0	0	0	0		
2008	MT	2B	50	MSQ	10	178	40		53	100	0	0	0	0	0	0		
2008	MT	2C	0	MSQ	0.8	84	90		18	99	1	0	0	0	0	0		
2008	MT	2C	10	TRAN					53	54.5	45	0	0	0	0	0.5		

	Treat-	Tran-		Quad			% Defol-	Tot	НС							Cow		
Year	ment	sect	Quad	Type	Distance	Angle	iation	Veg	C	L/BV	Soil	Gravel	Rock	Micro	Trash	Dung	Wood	Comments
2008	MT	2C	40	TRAN					71	69	26	0	0	1	0	4		
2008	MT	2C	50	MSQ	5.5	330	90		27	100	0	0	0	0	0	0		
2008	MT	ЗА	0	MSQ	8.5	208	10		26	93	7	0	0	0	0	0		
2008	MT	ЗА	10	TRAN					0	74.5	25	0	0	0	0	0.5		
2008	MT	3A	40	TRAN					58	67	32	0	0	0	0	1		
2008	MT	ЗА	50	MSQ	2.3	100	80		61	97	3	0	0	0	0	0		
2008	MT	3B	0	MSQ	8.8	280	40		36	100	0	0	0	0	0	0		
2008	MT	3B	10	TRAN					72	71.5	26	0	0	0.5	0	2		
2008	MT	3B	40	TRAN					60	58	42	0	0	0	0	2		
2008	MT	3B	50	MSQ	5.5	340	90		35	98	2	0	0	0	0	0		
2008	MT	3C	0	MSQ	2.7	170	90		24	99	1	0	0	0	0	0		
2008	MT	3C	10	TRAN					66	64	36	0	0	0	0	0		
2008	MT	3C	40	TRAN					40	88	10	0	0	0	0	2		
2008	MT	3C	50	MSQ	6	208	80		16	100	0	0	0	0	0	0		
2008	MT	4A	0	MSQ	8.5	225	50		9	74	25	0	0	0	0	1		
2008	MT	4A	10	TRAN					28	93	7	0	0	0	0	0		
2008	MT	4A	40	TRAN					44	58	42	0	0	0	0	0		
2008	MT	4A	50	MSQ	8.5	137	90		33	93	7	0	0	0	0	0		
2008	MT	4B	0	MSQ	6	42	50		33	99	1	0	0	0	0	0		
2008	MT	4B	10	TRAN					26	62	38	0	0	0	0	0		10 M within PROGLA canopy. Start quad at 11 M, not at 10 M
2008	MT	4B	40	TRAN					49	50	50	0	0	0	0	0		
2008	MT	4B	50	MSQ	4.2	300	90		16	98	2	0	0	0	0	0		
2008	MT	4C	0	MSQ	7.5	214	80		48	98	2	0	0	0	0	0		
2008	MT	4C	10	TRAN					60	62	35	0	0	1	0	2		
2008	MT	4C	40	TRAN					63	75	20	0	0	0	0	5		
2008	MT	4C	50	MSQ	7	194	80		53	100	0	0	0	0	0	0		
2008	MT	5A	0	MSQ	8.5	160	80		9	93	7	0	0	0	0	0		Transect quads read N of line
2008	MT	5A	10	TRAN					51	0	0	0	0	0	0	0		Transect quads read N of line
2008	MT	5A	40	TRAN					52	65	35	0	0	0	0	0		Transect

	_	_					%											
Year	Treat- ment	Tran- sect	Quad	Quad Type	Distance	Angle	Defol- iation	Tot Veg	HC C	L/BV	Soil	Gravel	Rock	Micro	Trash	Cow Dung	Wood	Comments
																		quads read N of line
																		Transect
2008	MT	5A	50	MSQ	1.9	268	80		15	99	1	0	0	0	0	0		quads read N of line
																		Transect guads read
																		N of line.
2008	MT	5B	0	MSQ	6.8	302	90		27	96	2	0	0	0	0	2		Leaves brown
																		Transect quads read
2008	MT	5B	10	TRAN					47	51.9	48	0	0	0.1	0	0		N of line
																		Transect quads read
2008	MT	5B	40	TRAN					66	62	33	0	0	1	0	4		N of line Transect
																_		quads read
2008	MT	5B	50	MSQ	8.5	216	50		22	99	1	0	0	0	0	0		N of line Transect
																		quads read N of line.
			_								_					_		Most leaves
2008	MT	5C	0	MSQ	10.8	170	50		18	97	3	0	0	0	0	0		brown Transect
2008	MT	5C	10	TRAN					68	60.5	25	0	0	0.5	0	14		quads read N of line
2000	IVII	30	10	TIVAL					- 00	00.5	20	0	0	0.0	0	17		Transect
2008	MT	5C	40	TRAN					54	55	40	0	0	1	0	4		quads read N of line
																		Transect quads read
																		N of line.
2008	MT	5C	50	MSQ	4.5	330	50		42	100	0	0	0	0	0	0		All leaves brown
																		100% defoliation-
																		dead; has
																		been mechanicall
2009	MT	1A	0	MSQ	7	296		10	10	8	92	0	0					y knocked down
2009	MT	1A	10	TRAN				53	53			0	0					30
2009	MT	1A	40	TRAN				57	57			0	0					

	Treat-	Tran-		Quad			% Defol-	Tot	НС							Cow		
Year	ment	sect	Quad	Type	Distance	Angle	iation	Veg	С	L/BV	Soil	Gravel	Rock	Micro	Trash	Dung	Wood	Comments
2009	MT	1A	50	MSQ	6.7	120	98	38	36	88	12	0	0			J		98% defoliation, some resprout
																		90% defoliation, some
2009	MT	1B	0	MSQ	3.5	110	90	53	49	91	7	0	0				2	resprout
2009	MT	1B	8	TRAN				60	51			0	0					
2009	MT	1B	40	TRAN				48	48			0	0					
2009	МТ	1B	50	MSQ	2.2	60	99	46	46	91	7	0	0				2	99% defoliation, some resprout
2009	MT	1C	0	MSQ	2.3	144	98	93	91	100	1	0	0				2	98% defoliation, some resprout
2009 2009	MT MT	1C 1C	11 40	TRAN TRAN				54 33	25 33			0	0					two track road starts at 12.5 and ends at 15.7. area across quad mechanicall y dragged, some YUCGLA&P ROGLA knocked over.
2009	MT	1C	50	MSQ	4.6	285	99	30	30	90	9	0	0				1	99% defoliation, some resprout
2009 2009 2009	MT MT	2A 2A 2A	0 11 40	MSQ TRAN TRAN	8	310	95	42 52 50	42 52 46	96.5	3	0 0	0 0 0	0.5				defoliation, some resprout
2009	MT	2A	50	MSQ	3.3	220	99	36	32	95	4	0	0		1			99% defoliation, some

		_					%											
Year	Treat- ment	Tran- sect	Quad	Quad Type	Distance	Angle	Defol- iation	Tot Veg	HC C	L/BV	Soil	Gravel	Rock	Micro	Trash	Cow Dung	Wood	Comments
				1 7 7 2		g	700000											resprout
																		100% defoliation-
																		dead;
																		PROGLA has been
																		mechaniclly
0000		0.0			_	440	400	07	07	07	40		•					knocked
2009	MT	2B	0	MSQ	5	113	100	37	37	87	12	0	0	1				down
2009	MT	2B	10	TRAN				52	52			0	0					
2009	MT	2B	40	TRAN				63	63			0	0					99%
																		defoliation,
2009	MT	2B	50	MSQ	10	178	99	97	97	100		0	0					some resprout
2003	IVII	20	30	IVIOQ	10	170	99	31	31	100		0	0					100%
																		defoliation-
																		dead; PROGLA
																		has been
																		mechaniclly knocked
2009	MT	2C	0	MSQ	0.8	84	100	63	62	95	5	0	0					down
2009	MT	2C	10	TRAN				62	62			0	0					
2009	MT	2C	40	TRAN				69	69			0	0					
																		100% defoliation-
2009	MT	2C	50	MSQ	5.5	330	100	57	30	98	1	0	0				1	defoliation- dead
																		98%
																		defoliation, some
2009	MT	ЗА	0	MSQ	8.5	208	98	32	32	95	5	0	0					resprout
2009	MT	ЗА	10	TRAN				44	44			0	0					
2009	MT	3A	40	TRAN				57	57			0	0					
																		100% defoliation-
2009	MT	3A	50	MSQ	2.3	100	100	58	58	97	3	0	0					delollation- dead
																		99%
																		defoliation, some
2009	MT	3B	0	MSQ	8.8	280	99	45	45	98	2	0	0					resprout
2009	MT	3B	10	TRAN				88	88			0	0					
2009	MT	3B	40	TRAN				69	69			0	0					

							%											
Year	Treat- ment	Tran- sect	Quad	Quad Type	Distance	Angle	Defol- iation	Tot Veg	HC C	L/BV	Soil	Gravel	Rock	Micro	Trash	Cow Dung	Wood	Comments
2009	MT	3B	50	MSQ	5.5	340	100	38	35	98	2	0	0	- Williams	114511	Dang	11000	100% defoliation- dead
																		97% defoliation, some
2009	MT	3C	0	MSQ	2.7	170	97	43	41	97	3	0	0					resprout
2009	MT	3C	10	TRAN				75	75			0	0					
2009	MT	3C	40	TRAN				65	57			0	0					1000/
2009	MT	3C	50	MSQ	6	208	100	24	22	98	1	0	0				1	100% defoliation- dead
2009	MT	4A	0	MSQ	8.5	225	100	34	34	86	12	0	0				2	100% defoliation
2009	MT	4A	10	TRAN	0.0			44	25			0	0					<u> </u>
2009	MT	4A	40	TRAN				36	19			0	0					
2009	MT	4A	50	MSQ	8.5	137	100	29	29	67	33	0	0					100% defoliation
2009	MT	4B	0	MSQ	6	42	98	20	19	96	2	0	0				2	98% defoliation- mostly dead, some resprout
2009	MT	4B	11	TRAN				51	51			0	0					
2009	MT	4B	40	TRAN				55	55			0	0					
2009	MT	4B	50	MSQ	4.2	300	99.8	14	14	95	5	0	0					99.8% defoliation- mostly dead, some resprout
2009	MT	4C	0	MSQ	7.5	214	100	34	34	94	5	0	0				1	100% defoliation- dead
2009	MT	4C	10	TRAN				56	56			0	0					
2009	MT	4C	40	TRAN				77	77			0	0					
2009	MT	4C	50	MSQ	7	194	100	65	65	96	1	0	0				3	100% defoliation- dead
2009	MT	5A	0	MSQ	8.5	160	100	14	- 55	94	6	0	0					100% defoliation- dead
2009	MT	5A	10	TRAN	0.0		100	85	48	<u> </u>		0	0					2000
2009	MT	5A	40	TRAN				40	40			0	0					

Year	Treat- ment	Tran- sect	Quad	Quad Type	Distance	Angle	% Defol- iation	Tot Veg	HC C	L/BV	Soil	Gravel	Rock	Micro	Trash	Cow Dung	Wood	Comments
2009	MT	5A	50	MSQ	1.9	268	100	25	25	98	2	0	0					100% defoliation- dead
2009	MT	5B	0	MSQ	6.8	302	100	22	20	88	11	0	0			1		100% defoliation- dead
2009	MT	5B	10	TRAN				58	58			0	0					
2009	MT	5B	40	TRAN				72	72			0	0					
2009	MT	5B	50	MSQ	8.5	216	100	14	14	98	2	0	0					100% defoliation- dead
2009	MT	5C	0	MSQ	10.8	170	100	25	23	82	17	0	0			1		100% defoliation- dead
2009	MT	5C	10	TRAN				81	81			0	0					
2009	MT	5C	40	TRAN				48	48			0	0					
2009	MT	5C	50	MSQ	4.5	330	100	27	27	98	2	0	0					100% defoliation- dead

Table B7. Raw ground cover line intercept of species and ground cover elements at the Mesquite Treatment Area (MTA).

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	1A	50	0	1	1	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	1	37	36	BARE		
MT	07MT001	2008	1A	50	37	45	8	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	45	82	37	BARE		
MT	07MT001	2008	1A	50	82	89	7	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	89	155	66	BARE		
MT	07MT001	2008	1A	50	155	181	26	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	181	198	17	BARE		
MT	07MT001	2008	1A	50	198	202	4	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	202	219	17	BARE		
MT	07MT001	2008	1A	50	219	221	2	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	221	229	8	BARE		
MT	07MT001	2008	1A	50	229	232	3	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	232	271	39	BARE		
MT	07MT001	2008	1A	50	271	273	2	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	273	295	22	BARE		
MT	07MT001	2008	1A	50	295	299	4	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	299	365	66	BARE		
MT	07MT001	2008	1A	50	365	416	51	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	416	492	76	BARE		
MT	07MT001	2008	1A	50	492	509	17	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	509	517	8	BARE		
MT	07MT001	2008	1A	50	517	530	13	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	530	580	50	BARE		
MT	07MT001	2008	1A	50	580	599	19	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	599	615	16	BARE		
MT	07MT001	2008	1A	50	615	622	7	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	622	641	19	BARE		
MT	07MT001	2008	1A	50	641	643	2	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	643	690	47	BARE		
MT	07MT001	2008	1A	50	690	736	46	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	736	752	16	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	1A	50	752	755	3	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	755	760	5	BARE		
MT	07MT001	2008	1A	50	760	764	4	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	764	783	19	BARE		
MT	07MT001	2008	1A	50	783	787	4	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	787	823	36	BARE		
MT	07MT001	2008	1A	50	823	830	7	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	830	872	42	BARE		
MT	07MT001	2008	1A	50	872	876	4	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	876	903	27	BARE		
MT	07MT001	2008	1A	50	903	926	23	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	926	932	6	BARE		
MT	07MT001	2008	1A	50	932	938	6	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	938	950	12	BARE		
MT	07MT001	2008	1A	50	950	957	7	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	957	1005	48	BARE		
MT	07MT001	2008	1A	50	1005	1027	22	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1027	1053	26	BARE		
MT	07MT001	2008	1A	50	1053	1082	29	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1082	1103	21	BARE		
MT	07MT001	2008	1A	50	1103	1113	10	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1113	1117	4	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	1117	1139	22	BARE		
MT	07MT001	2008	1A	50	1139	1142	3	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	1142	1160	18	BARE		
MT	07MT001	2008	1A	50	1160	1217	57	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1217	1232	15	BARE		
MT	07MT001	2008	1A	50	1232	1235	3	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	1235	1265	30	BARE		
MT	07MT001	2008	1A	50	1265	1287	22	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	1287	1294	7	BARE		
MT	07MT001	2008	1A	50	1294	1320	26	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1320	1339	19	BARE		
MT	07MT001	2008	1A	50	1339	1359	20	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1359	1368	9	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	1A	50	1368	1376	8	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1376	1384	8	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	1384	1412	28	BARE		
MT	07MT001	2008	1A	50	1412	1424	12	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1424	1443	19	BARE		
MT	07MT001	2008	1A	50	1443	1451	8	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1451	1453	2	BARE		
MT	07MT001	2008	1A	50	1453	1457	4	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	1457	1505	48	BARE		
MT	07MT001	2008	1A	50	1505	1510	5	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	1A	50	1510	1575	65	BARE		
MT	07MT001	2008	1A	50	1575	1690	115	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1690	1702	12	DUNG		
MT	07MT001	2008	1A	50	1702	1707	5	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1707	1717	10	DUNG		
MT	07MT001	2008	1A	50	1717	1803	86	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1803	1821	18	BARE		
MT	07MT001	2008	1A	50	1821	1828	7	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1828	1862	34	BARE		
MT	07MT001	2008	1A	50	1862	1873	11	BOUERI	BOER4	Bouteloua eriopoda
MT	07MT001	2008	1A	50	1873	1877	4	BARE		
MT	07MT001	2008	1A	50	1877	1892	15	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1892	1930	38	BARE		
MT	07MT001	2008	1A	50	1930	1950	20	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	1950	1960	10	BARE		
MT	07MT001	2008	1A	50	1960	1964	4	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	1964	1968	4	BARE		
MT	07MT001	2008	1A	50	1968	2010	42	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2010	2022	12	BARE		
MT	07MT001	2008	1A	50	2022	2068	46	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2068	2132	64	BARE		
MT	07MT001	2008	1A	50	2132	2144	12	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2144	2146	2	BARE		
MT	07MT001	2008	1A	50	2146	2161	15	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	2161	2207	46	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	1A	50	2207	2212	5	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	2212	2238	26	BARE		
MT	07MT001	2008	1A	50	2238	2242	4	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	2242	2270	28	BARE		
MT	07MT001	2008	1A	50	2270	2275	5	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	2275	2319	44	BARE		
MT	07MT001	2008	1A	50	2319	2321	2	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	2321	2331	10	BARE		
MT	07MT001	2008	1A	50	2331	2337	6	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	2337	2343	6	BARE		
MT	07MT001	2008	1A	50	2343	2346	3	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	2346	2359	13	BARE		
MT	07MT001	2008	1A	50	2359	2371	12	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2371	2385	14	BARE		
MT	07MT001	2008	1A	50	2385	2426	41	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2426	2436	10	BARE		
MT	07MT001	2008	1A	50	2436	2445	9	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2445	2489	44	BARE		
MT	07MT001	2008	1A	50	2489	2497	8	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2497	2507	10	BARE		
MT	07MT001	2008	1A	50	2507	2515	8	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2515	2530	15	BARE		
MT	07MT001	2008	1A	50	2530	2543	13	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2543	2556	13	BARE		
MT	07MT001	2008	1A	50	2556	2560	4	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2560	2570	10	BARE		
MT	07MT001	2008	1A	50	2570	2586	16	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2586	2618	32	BARE		
MT	07MT001	2008	1A	50	2618	2620	2	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	2620	2629	9	BARE		
MT	07MT001	2008	1A	50	2629	2631	2	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	2631	2642	11	BARE		·
MT	07MT001	2008	1A	50	2642	2657	15	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2657	2687	30	BARE		
MT	07MT001	2008	1A	50	2687	2689	2	CENSPI	CESP4	Cenchrus spinifex

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	1A	50	2689	2716	27	BARE		
MT	07MT001	2008	1A	50	2716	2731	15	CENSPI	CESP4	Cenchrus spinifex
MT	07MT001	2008	1A	50	2731	2889	158	BARE		
MT	07MT001	2008	1A	50	2889	2891	2	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2891	2981	90	BARE		
MT	07MT001	2008	1A	50	2981	2992	11	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	2992	3005	13	BARE		
MT	07MT001	2008	1A	50	3005	3007	2	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	3007	3069	62	BARE		
MT	07MT001	2008	1A	50	3069	3088	19	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3088	3109	21	BARE		
MT	07MT001	2008	1A	50	3109	3120	11	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3120	3140	20	BARE		
MT	07MT001	2008	1A	50	3140	3155	15	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3155	3165	10	BARE		
MT	07MT001	2008	1A	50	3165	3170	5	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3170	3193	23	BARE		
MT	07MT001	2008	1A	50	3193	3205	12	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3205	3214	9	BARE		
MT	07MT001	2008	1A	50	3214	3227	13	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	3227	3265	38	BARE		
MT	07MT001	2008	1A	50	3265	3274	9	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3274	3296	22	BARE		
MT	07MT001	2008	1A	50	3296	3306	10	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3306	3324	18	BARE		
MT	07MT001	2008	1A	50	3324	3332	8	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3332	3355	23	BARE		
MT	07MT001	2008	1A	50	3355	3369	14	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3369	3396	27	BARE		
MT	07MT001	2008	1A	50	3396	3527	131	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3527	3555	28	BARE		
MT	07MT001	2008	1A	50	3555	3568	13	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3568	3580	12	BARE		
MT	07MT001	2008	1A	50	3580	3586	6	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3586	3592	6	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	1A	50	3592	3624	32	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3624	3633	9	BARE		
MT	07MT001	2008	1A	50	3633	3636	3	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3636	3645	9	BARE		
MT	07MT001	2008	1A	50	3645	3655	10	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3655	3667	12	BARE		
MT	07MT001	2008	1A	50	3667	3672	5	BOUERI	BOER4	Bouteloua eriopoda
MT	07MT001	2008	1A	50	3672	3681	9	BARE		
MT	07MT001	2008	1A	50	3681	3692	11	BOUERI	BOER4	Bouteloua eriopoda
MT	07MT001	2008	1A	50	3692	3707	15	BARE		
MT	07MT001	2008	1A	50	3707	3837	130	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	3815	3935	120	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	1A	50	3910	3960	50	BOUERI	BOER4	Bouteloua eriopoda
MT	07MT001	2008	1A	50	3940	4031	91	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	1A	50	4031	4044	13	BARE		
MT	07MT001	2008	1A	50	4044	4063	19	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	4063	4074	11	BARE		
MT	07MT001	2008	1A	50	4074	4103	29	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	4103	4110	7	BARE		
MT	07MT001	2008	1A	50	4110	4468	358	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	4200	4340	140	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	1A	50	4468	4480	12	BARE		
MT	07MT001	2008	1A	50	4480	4485	5	SPOCRY	SPCR	Sporobolus cryptandrus
MT	07MT001	2008	1A	50	4485	4491	6	BARE		
MT	07MT001	2008	1A	50	4491	4494	3	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	4494	4505	11	BARE		
MT	07MT001	2008	1A	50	4505	4507	2	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	4507	4519	12	BARE		
MT	07MT001	2008	1A	50	4519	4577	58	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	4577	4596	19	BARE		
MT	07MT001	2008	1A	50	4596	4638	42	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1A	50	4638	4661	23	BARE		
MT	07MT001	2008	1A	50	4661	4688	27	BOUERI	BOER4	Bouteloua eriopoda
MT	07MT001	2008	1A	50	4688	4730	42	BARE		
MT	07MT001	2008	1A	50	4730	4745	15	BOUGRA	BOGR2	Bouteloua gracilis

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	1A	50	4745	4826	81	BARE		·
MT	07MT001	2008	1A	50	4826	5000	174	BOUGRA	BOGR2	Bouteloua gracilis
MT	07MT001	2008	1B	50	0	285	285	UNIDG		unidentified graminoid
MT	07MT001	2008	1B	50	140	193	53	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	1B	50	165	187	22	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	1B	50	285	345	60	BARE		
MT	07MT001	2008	1B	50	331	410	79	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	1B	50	345	1095	750	UNIDG		unidentified graminoid
MT	07MT001	2008	1B	50	420	450	30	PROGLA	PRGL2	Prosopis glandulosa
										Mimosa aculeaticarpa
MT	07MT001	2008	1B	50	855	882	27	MIMACUB	MIACB	var. biuncifera
MT	07MT001	2008	1B	50	985	1180	195	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	1B	50	1095	1132	37	BARE		
MT	07MT001	2008	1B	50	1132	1190	58	UNIDG		unidentified graminoid
MT	07MT001	2008	1B	50	1183	1205	22	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	1B	50	1190	1343	153	BARE		
MT	07MT001	2008	1B	50	1220	1245	25	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	1B	50	1343	1510	167	UNIDG		unidentified graminoid
MT	07MT001	2008	1B	50	1510	1545	35	BARE		
MT	07MT001	2008	1B	50	1545	1690	145	UNIDG		unidentified graminoid
MT	07MT001	2008	1B	50	1690	1725	35	BARE		
MT	07MT001	2008	1B	50	1695	1712	17	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	1B	50	1725	4155	2430	UNIDG		unidentified graminoid
MT	07MT001	2008	1B	50	3190	3200	10	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	1B	50	4155	4205	50	BARE		
MT	07MT001	2008	1B	50	4205	5000	795	UNIDG		unidentified graminoid
MT	07MT001	2008	1B	50	4430	4675	245	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	1C	50	0	37	37	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	1C	50	0	950	950	UNIDG		unidentified graminoid
MT	07MT001	2008	1C	50	836	855	19	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	1C	50	875	1015	140	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	1C	50	950	1285	335	BARE		
MT	07MT001	2008	1C	50	991	1027	36	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	1C	50	1055	1165	110	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	1C	50	1285	2760	1475	UNIDG		unidentified graminoid

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	1C	50	2760	2805	45	BARE		·
MT	07MT001	2008	1C	50	2805	4700	1895	UNIDG		unidentified graminoid
MT	07MT001	2008	1C	50	4430	4640	210	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	1C	50	4700	4760	60	BARE		
MT	07MT001	2008	1C	50	4760	5000	240	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	0	2130	2130	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	2130	2185	55	BARE		
MT	07MT001	2008	2A	50	2185	2192	7	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	2192	2250	58	BARE		
MT	07MT001	2008	2A	50	2195	2215	20	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	2A	50	2250	2270	20	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	2270	2320	50	BARE		
MT	07MT001	2008	2A	50	2290	2320	30	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	2A	50	2320	2770	450	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	2770	2815	45	BARE		
MT	07MT001	2008	2A	50	2815	2830	15	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	2830	3115	285	BARE		
MT	07MT001	2008	2A	50	2930	3040	110	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	2A	50	3115	3180	65	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	3180	3270	90	BARE		
										Mimosa aculeaticarpa
MT	07MT001	2008	2A	50	3220	3305	85	MIMACUB	MIACB	var. biuncifera
MT	07MT001	2008	2A	50	3270	3320	50	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	3320	3525	205	BARE		
MT	07MT001	2008	2A	50	3350	3395	45	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	2A	50	3525	3800	275	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	3800	3885	85	BARE		
MT	07MT001	2008	2A	50	3885	3892	7	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	3892	3990	98	BARE		
MT	07MT001	2008	2A	50	3990	4370	380	UNIDG		unidentified graminoid
MT	07MT001	2008	2A	50	4015	4060	45	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	2A	50	4285	4309	24	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	2A	50	4370	4435	65	BARE		
MT	07MT001	2008	2A	50	4435	5000	565	UNIDG		unidentified graminoid
MT	07MT001	2008	2B	50	0	860	860	UNIDG		unidentified graminoid

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
										Mimosa aculeaticarpa
MT	07MT001	2008	2B	50	30	41	11	MIMACUB	MIACB	var. biuncifera
MT	07MT001	2008	2B	50	350	490	140	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	2B	50	810	900	90	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	2B	50	860	915	55	BARE		
MT	07MT001	2008	2B	50	915	1660	745	UNIDG		unidentified graminoid
MT	07MT001	2008	2B	50	950	980	30	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	2B	50	1660	1730	70	BARE		
MT	07MT001	2008	2B	50	1730	1770	40	UNIDG		unidentified graminoid
MT	07MT001	2008	2B	50	1770	1825	55	BARE		
MT	07MT001	2008	2B	50	1825	5000	3175	UNIDG		unidentified graminoid
MT	07MT001	2008	2B	50	4250	4295	45	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	2C	50	0	78	78	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	2C	50	0	35	35	UNIDG		unidentified graminoid
MT	07MT001	2008	2C	50	35	110	75	BARE		
MT	07MT001	2008	2C	50	87	174	87	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	2C	50	110	135	25	UNIDG		unidentified graminoid
MT	07MT001	2008	2C	50	135	160	25	BARE		
MT	07MT001	2008	2C	50	160	782	622	UNIDG		unidentified graminoid
MT	07MT001	2008	2C	50	782	805	23	BARE		
MT	07MT001	2008	2C	50	805	810	5	UNIDG		unidentified graminoid
MT	07MT001	2008	2C	50	810	970	160	BARE		
MT	07MT001	2008	2C	50	910	915	5	ZINGRA	ZIGR	Zinnia grandiflora
MT	07MT001	2008	2C	50	970	980	10	UNIDG		unidentified graminoid
MT	07MT001	2008	2C	50	980	1001	21	BARE		
MT	07MT001	2008	2C	50	1001	1399	398	UNIDG		unidentified graminoid
MT	07MT001	2008	2C	50	1399	1527	128	BARE		
MT	07MT001	2008	2C	50	1527	2475	948	UNIDG		unidentified graminoid
MT	07MT001	2008	2C	50	2475	2520	45	BARE		
MT	07MT001	2008	2C	50	2520	5000	2480	UNIDG		unidentified graminoid
MT	07MT001	2008	2C	50	3255	3290	35	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	2C	50	3920	3955	35	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3A	50	0	16	16	BARE		
MT	07MT001	2008	3A	50	16	19	3	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	19	35	16	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	3A	50	35	81	46	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	81	99	18	BARE		
MT	07MT001	2008	3A	50	99	113	14	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	113	152	39	BARE		
MT	07MT001	2008	3A	50	152	376	224	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	376	432	56	BARE		
MT	07MT001	2008	3A	50	432	451	19	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	451	499	48	BARE		
MT	07MT001	2008	3A	50	499	502	3	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	502	554	52	BARE		
MT	07MT001	2008	3A	50	554	719	165	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	717	809	92	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	3A	50	719	804	85	BARE		
MT	07MT001	2008	3A	50	804	1210	406	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	1210	1232	22	BARE		
MT	07MT001	2008	3A	50	1232	1250	18	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	1250	1271	21	BARE		
MT	07MT001	2008	3A	50	1271	1390	119	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	1390	1455	65	BARE		
MT	07MT001	2008	3A	50	1455	1569	114	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	1569	1624	55	BARE		
MT	07MT001	2008	3A	50	1606	1617	11	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	3A	50	1624	1684	60	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	1684	1720	36	BARE		
MT	07MT001	2008	3A	50	1720	1925	205	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	1925	2042	117	BARE		
MT	07MT001	2008	3A	50	2042	2230	188	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	2230	2294	64	BARE		
MT	07MT001	2008	3A	50	2294	2730	436	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	2730	2770	40	BARE		
										Mimosa aculeaticarpa
MT	07MT001	2008	3A	50	2760	2864	104	MIMACUB	MIACB	var. biuncifera
MT	07MT001	2008	3A	50	2770	2786	16	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	2786	2997	211	BARE		
MT	07MT001	2008	3A	50	2997	3087	90	UNIDG		unidentified graminoid

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	3A	50	3087	3135	48	BARE		
MT	07MT001	2008	3A	50	3135	3750	615	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	3750	3785	35	BARE		
MT	07MT001	2008	3A	50	3785	4082	297	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	4082	4159	77	BARE		
MT	07MT001	2008	3A	50	4159	4342	183	UNIDG		unidentified graminoid
MT	07MT001	2008	3A	50	4342	4369	27	BARE		
MT	07MT001	2008	3A	50	4369	5000	631	UNIDG		unidentified graminoid
MT	07MT001	2008	3B	50	0	473	473	UNIDG		unidentified graminoid
MT	07MT001	2008	3B	50	453	530	77	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	3B	50	473	530	57	BARE		
MT	07MT001	2008	3B	50	530	1210	680	UNIDG		unidentified graminoid
MT	07MT001	2008	3B	50	1210	1335	125	BARE		
MT	07MT001	2008	3B	50	1225	1275	50	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	3B	50	1335	1900	565	UNIDG		unidentified graminoid
MT	07MT001	2008	3B	50	1900	1920	20	BARE		
MT	07MT001	2008	3B	50	1915	1955	40	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3B	50	1920	2041	121	UNIDG		unidentified graminoid
MT	07MT001	2008	3B	50	2041	2063	22	BARE		
MT	07MT001	2008	3B	50	2063	4300	2237	UNIDG		unidentified graminoid
MT	07MT001	2008	3B	50	3131	3233	102	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3B	50	4260	4295	35	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3B	50	4285	4295	10	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	3B	50	4300	4350	50	BARE		
MT	07MT001	2008	3B	50	4340	4400	60	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3B	50	4350	4430	80	UNIDG		unidentified graminoid
MT	07MT001	2008	3B	50	4430	4570	140	BARE		
MT	07MT001	2008	3B	50	4430	4550	120	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	3B	50	4570	5000	430	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	0	44	44	BARE		
MT	07MT001	2008	3C	50	44	47	3	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	47	69	22	BARE		
MT	07MT001	2008	3C	50	69	140	71	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	90	155	65	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3C	50	140	168	28	BARE		-

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	3C	50	168	205	37	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	181	240	59	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3C	50	205	320	115	BARE		
MT	07MT001	2008	3C	50	310	380	70	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	3C	50	320	590	270	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	395	509	114	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3C	50	590	623	33	BARE		
MT	07MT001	2008	3C	50	623	1484	861	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	1414	1530	116	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3C	50	1484	1534	50	BARE		
MT	07MT001	2008	3C	50	1486	1532	46	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	3C	50	1534	1752	218	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	1589	1666	77	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	3C	50	1650	1695	45	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	3C	50	1725	1772	47	BARE		
MT	07MT001	2008	3C	50	1772	2555	783	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	2550	2615	65	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	3C	50	2555	2600	45	BARE		
MT	07MT001	2008	3C	50	2600	4025	1425	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	4025	4085	60	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	3C	50	4025	4080	55	BARE		
MT	07MT001	2008	3C	50	4080	4140	60	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	4125	4180	55	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	3C	50	4140	4165	25	BARE		
MT	07MT001	2008	3C	50	4165	5000	835	UNIDG		unidentified graminoid
MT	07MT001	2008	3C	50	4250	4303	53	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	4A	50	0	29	29	BARE		
MT	07MT001	2008	4A	50	29	54	25	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	54	71	17	BARE		
MT	07MT001	2008	4A	50	71	74	3	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	74	100	26	BARE		
MT	07MT001	2008	4A	50	100	549	449	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	549	575	26	BARE		
MT	07MT001	2008	4A	50	575	762	187	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	715	735	20	YUCGLA	YUGL	Yucca glauca

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	4A	50	762	840	78	BARE		
MT	07MT001	2008	4A	50	815	852	37	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	4A	50	840	880	40	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	880	945	65	BARE		
MT	07MT001	2008	4A	50	945	1005	60	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	1005	1045	40	BARE		
MT	07MT001	2008	4A	50	1045	1052	7	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	1052	1150	98	BARE		
MT	07MT001	2008	4A	50	1150	1560	410	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	1560	1660	100	BARE		
MT	07MT001	2008	4A	50	1660	1954	294	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	1670	1765	95	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	4A	50	1954	2001	47	BARE		
MT	07MT001	2008	4A	50	2001	2142	141	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	2142	2178	36	BARE		
MT	07MT001	2008	4A	50	2178	2696	518	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	2696	2741	45	BARE		
MT	07MT001	2008	4A	50	2741	2755	14	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	2755	2917	162	BARE		
MT	07MT001	2008	4A	50	2790	2880	90	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	4A	50	2917	2930	13	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	2930	2974	44	BARE		
MT	07MT001	2008	4A	50	2974	3514	540	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	3514	3531	17	BARE		
MT	07MT001	2008	4A	50	3531	4523	992	UNIDG		unidentified graminoid
MT	07MT001	2008	4A	50	4523	4579	56	BARE		
MT	07MT001	2008	4A	50	4579	5000	421	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	0	17	17	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	17	34	17	BARE		
MT	07MT001	2008	4B	50	34	163	129	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	163	202	39	BARE		
MT	07MT001	2008	4B	50	202	365	163	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	365	384	19	BARE		
MT	07MT001	2008	4B	50	384	763	379	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	735	778	43	PROGLA	PRGL2	Prosopis glandulosa

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	4B	50	763	804	41	BARE		
MT	07MT001	2008	4B	50	770	810	40	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	4B	50	804	1033	229	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	830	1006	176	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	4B	50	1033	1060	27	BARE		
MT	07MT001	2008	4B	50	1060	1116	56	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	1116	1181	65	BARE		
MT	07MT001	2008	4B	50	1145	1180	35	BARE		
MT	07MT001	2008	4B	50	1180	2120	940	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	1181	1145	-36	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	2120	2150	30	BARE		
MT	07MT001	2008	4B	50	2150	2230	80	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	2230	2254	24	BARE		
MT	07MT001	2008	4B	50	2254	2448	194	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	2266	2285	19	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	4B	50	2448	2468	20	BARE		
MT	07MT001	2008	4B	50	2468	3564	1096	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	3084	3140	56	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	4B	50	3564	3591	27	BARE		
MT	07MT001	2008	4B	50	3591	4061	470	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	4061	4078	17	BARE		
MT	07MT001	2008	4B	50	4078	4241	163	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	4241	4258	17	BARE		
MT	07MT001	2008	4B	50	4258	5000	742	UNIDG		unidentified graminoid
MT	07MT001	2008	4B	50	4502	4608	106	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	4B	50	4562	4575	13	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2008	4C	50	0	165	165	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	165	189	24	BARE		
MT	07MT001	2008	4C	50	189	437	248	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	437	459	22	BARE		
MT	07MT001	2008	4C	50	459	939	480	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	939	967	28	BARE		
MT	07MT001	2008	4C	50	967	1139	172	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	1139	1172	33	BARE		
MT	07MT001	2008	4C	50	1172	1181	9	UNIDG		unidentified graminoid

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	4C	50	1181	1207	26	BARE		
MT	07MT001	2008	4C	50	1207	1219	12	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	1219	1246	27	BARE		
MT	07MT001	2008	4C	50	1246	1271	25	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	1271	1299	28	BARE		
MT	07MT001	2008	4C	50	1299	2242	943	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	2231	2374	143	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	4C	50	2242	2336	94	BARE		
MT	07MT001	2008	4C	50	2336	3057	721	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	3057	3073	16	BARE		
MT	07MT001	2008	4C	50	3073	3109	36	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	3109	3144	35	BARE		
MT	07MT001	2008	4C	50	3144	3378	234	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	3378	3397	19	BARE		
MT	07MT001	2008	4C	50	3397	3669	272	UNIDG		unidentified graminoid
MT	07MT001	2008	4C	50	3456	3464	8	OPUPOL	OPPO	Opuntia polyacantha
MT	07MT001	2008	4C	50	3669	3720	51	BARE		
MT	07MT001	2008	4C	50	3720	5000	1280	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	0	26	26	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	26	49	23	BARE		
MT	07MT001	2008	5A	50	49	86	37	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	86	109	23	BARE		
MT	07MT001	2008	5A	50	109	135	26	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	135	179	44	BARE		
MT	07MT001	2008	5A	50	179	188	9	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	188	203	15	BARE		
MT	07MT001	2008	5A	50	203	305	102	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	305	333	28	BARE		
MT	07MT001	2008	5A	50	333	535	202	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	535	573	38	BARE		
MT	07MT001	2008	5A	50	573	976	403	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	920	999	79	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	5A	50	976	1040	64	BARE		
MT	07MT001	2008	5A	50	1040	1636	596	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	1636	1678	42	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	5A	50	1678	1694	16	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	1694	1734	40	BARE		
MT	07MT001	2008	5A	50	1734	1737	3	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	1737	1797	60	BARE		
MT	07MT001	2008	5A	50	1797	3038	1241	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	1919	2035	116	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2008	5A	50	3038	3079	41	BARE		
MT	07MT001	2008	5A	50	3079	3244	165	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	3244	3272	28	BARE		
MT	07MT001	2008	5A	50	3272	3316	44	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	3316	3345	29	BARE		
MT	07MT001	2008	5A	50	3345	3869	524	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	3869	3906	37	BARE		
MT	07MT001	2008	5A	50	3906	3927	21	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	3927	4028	101	BARE		
MT	07MT001	2008	5A	50	4028	4122	94	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	4122	4217	95	BARE		
MT	07MT001	2008	5A	50	4217	4362	145	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	4362	4425	63	BARE		
MT	07MT001	2008	5A	50	4425	4434	9	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	4434	4495	61	BARE		
MT	07MT001	2008	5A	50	4495	4504	9	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	4504	4569	65	BARE		
MT	07MT001	2008	5A	50	4569	4670	101	UNIDG		unidentified graminoid
MT	07MT001	2008	5A	50	4665	5000	335	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	5A	50	4670	4860	190	BARE		
MT	07MT001	2008	5A	50	4860	5000	140	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	0	121	121	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	121	149	28	BARE		
MT	07MT001	2008	5B	50	149	180	31	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	180	197	17	BARE		
MT	07MT001	2008	5B	50	197	300	103	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	300	324	24	BARE		
MT	07MT001	2008	5B	50	324	528	204	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	379	442	63	PROGLA	PRGL2	Prosopis glandulosa

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	5B	50	528	552	24	BARE		
MT	07MT001	2008	5B	50	552	802	250	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	802	832	30	BARE		
MT	07MT001	2008	5B	50	832	2390	1558	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	1898	1971	73	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2008	5B	50	2390	2422	32	BARE		
MT	07MT001	2008	5B	50	2422	2493	71	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	2493	2524	31	BARE		
MT	07MT001	2008	5B	50	2524	3046	522	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	3046	3067	21	BARE		
MT	07MT001	2008	5B	50	3067	4404	1337	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	4404	4426	22	BARE		
MT	07MT001	2008	5B	50	4426	4801	375	UNIDG		unidentified graminoid
MT	07MT001	2008	5B	50	4801	4831	30	BARE		
MT	07MT001	2008	5B	50	4831	5000	169	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	0	410	410	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	410	432	22	BARE		
MT	07MT001	2008	5C	50	432	916	484	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	916	1004	88	BARE		
MT	07MT001	2008	5C	50	1004	1591	587	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	1591	1613	22	BARE		
MT	07MT001	2008	5C	50	1613	2624	1011	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	2624	2652	28	BARE		
MT	07MT001	2008	5C	50	2652	2675	23	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	2675	2701	26	BARE		
MT	07MT001	2008	5C	50	2701	2819	118	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	2819	2848	29	BARE		
MT	07MT001	2008	5C	50	2848	2863	15	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	2864	2876	12	BARE		
MT	07MT001	2008	5C	50	2876	2892	16	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	2892	2921	29	BARE		
MT	07MT001	2008	5C	50	2921	3838	917	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	3838	3881	43	BARE		
MT	07MT001	2008	5C	50	3881	4085	204	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	4085	4113	28	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2008	5C	50	4113	5000	887	UNIDG		unidentified graminoid
MT	07MT001	2008	5C	50	4526	4567	41	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	1A	50	0	64	64	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	64	107	43	LITTER		
MT	07MT001	2009	1A	50	107	221	114	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	221	240	19	BARE		
MT	07MT001	2009	1A	50	240	450	210	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	450	480	30	BARE		
MT	07MT001	2009	1A	50	480	1110	630	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	1110	1132	22	BARE		
MT	07MT001	2009	1A	50	1132	1146	14	UNIDF		unidentified forb
MT	07MT001	2009	1A	50	1140	1225	85	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	1225	1248	23	BARE		
MT	07MT001	2009	1A	50	1248	2461	1213	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	1842	1849	7	UNIDF		unidentified forb
MT	07MT001	2009	1A	50	2231	3278	1047	UNIDF		unidentified forb
MT	07MT001	2009	1A	50	2461	2478	17	LITTER		
MT	07MT001	2009	1A	50	2478	2590	112	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	2590	2615	25	BARE		
MT	07MT001	2009	1A	50	2615	2650	35	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	2650	2656	6	BARE		
MT	07MT001	2009	1A	50	2656	2800	144	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	2800	2848	48	BARE		
MT	07MT001	2009	1A	50	2848	2852	4	UNIDF		unidentified forb
MT	07MT001	2009	1A	50	2852	2870	18	BARE		
MT	07MT001	2009	1A	50	2870	2899	29	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	2899	2917	18	BARE		
MT	07MT001	2009	1A	50	2917	2938	21	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	2938	2975	37	BARE		
MT	07MT001	2009	1A	50	2975	3265	290	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	3265	3292	27	DUNG		
MT	07MT001	2009	1A	50	3292	3951	659	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	3820	3853	33	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	1A	50	3951	3959	8	UNIDF		unidentified forb
MT	07MT001	2009	1A	50	3959	3988	29	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	1A	50	3988	4022	34	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	1A	50	3995	4020	25	LITTER		
MT	07MT001	2009	1A	50	4020	4754	734	UNIDG		unidentified graminoid
MT	07MT001	2009	1A	50	4220	4290	70	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	1A	50	4754	4822	68	BARE		
MT	07MT001	2009	1A	50	4822	5000	178	UNIDG		unidentified graminoid
MT	07MT001	2009	1B	50	0	390	390	UNIDG		unidentified graminoid
MT	07MT001	2009	1B	50	117	188	71	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	1B	50	220	240	20	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	1B	50	330	360	30	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	1B	50	390	414	24	BARE		
MT	07MT001	2009	1B	50	414	1100	686	UNIDG		unidentified graminoid
										Mimosa aculeaticarpa
MT	07MT001	2009	1B	50	842	878	36	MIMACUB	MIACB	var. biuncifera
MT	07MT001	2009	1B	50	1031	1289	258	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	1B	50	1100	1145	45	LITTER		
MT	07MT001	2009	1B	50	1145	1188	43	UNIDG		unidentified graminoid
MT	07MT001	2009	1B	50	1188	1311	123	LITTER		
MT	07MT001	2009	1B	50	1311	1320	9	UNIDG		unidentified graminoid
MT	07MT001	2009	1B	50	1320	1345	25	LITTER		
MT	07MT001	2009	1B	50	1345	1519	174	UNIDG		unidentified graminoid
MT	07MT001	2009	1B	50	1519	1549	30	BARE		
MT	07MT001	2009	1B	50	1549	4162	2613	UNIDG		unidentified graminoid
MT	07MT001	2009	1B	50	4162	4208	46	BARE		
MT	07MT001	2009	1B	50	4208	5000	792	UNIDG		unidentified graminoid
MT	07MT001	2009	1B	50	4444	4550	106	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	1C	50	0	546	546	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	0	34	34	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	1C	50	546	573	27	BARE		
MT	07MT001	2009	1C	50	573	762	189	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	762	788	26	BARE		
MT	07MT001	2009	1C	50	788	876	88	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	876	923	47	LITTER		
MT	07MT001	2009	1C	50	923	930	7	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	930	963	33	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	1C	50	963	1055	92	LITTER		
MT	07MT001	2009	1C	50	1010	1020	10	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2009	1C	50	1055	1182	127	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	1C	50	1160	1195	35	LITTER		
MT	07MT001	2009	1C	50	1195	1259	64	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	1259	1297	38	BARE		
MT	07MT001	2009	1C	50	1297	1303	6	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	1303	1415	112	BARE		
MT	07MT001	2009	1C	50	1415	1538	123	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	1538	1580	42	BARE		
MT	07MT001	2009	1C	50	1580	2218	638	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	2218	2240	22	DUNG		
MT	07MT001	2009	1C	50	2240	2920	680	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	2920	2944	24	BARE		
MT	07MT001	2009	1C	50	2944	3385	441	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	3385	3405	20	BARE		
MT	07MT001	2009	1C	50	3405	3490	85	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	3490	3515	25	BARE		
MT	07MT001	2009	1C	50	3515	3640	125	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	3640	3670	30	BARE		
MT	07MT001	2009	1C	50	3670	3810	140	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	3810	3830	20	BARE		
MT	07MT001	2009	1C	50	3830	3890	60	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	3890	3923	33	BARE		
MT	07MT001	2009	1C	50	3923	3958	35	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	3958	3990	32	BARE		
MT	07MT001	2009	1C	50	3990	4535	545	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	4460	4667	207	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	1C	50	4535	4600	65	LITTER		
MT	07MT001	2009	1C	50	4600	4705	105	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	4705	4723	18	BARE		_
MT	07MT001	2009	1C	50	4723	4802	79	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	4802	4830	28	BARE		Ţ.
MT	07MT001	2009	1C	50	4830	4864	34	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	4864	4902	38	BARE		

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Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	1C	50	4902	4972	70	UNIDG		unidentified graminoid
MT	07MT001	2009	1C	50	4972	5000	28	BARE		
MT	07MT001	2009	2A	50	0	407	407	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	407	462	55	BARE		
MT	07MT001	2009	2A	50	462	475	13	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	475	525	50	BARE		
MT	07MT001	2009	2A	50	525	2007	1482	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	2007	2035	28	BARE		
MT	07MT001	2009	2A	50	2035	2147	112	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	2147	2165	18	LITTER		
MT	07MT001	2009	2A	50	2165	2188	23	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	2188	2230	42	LITTER		
MT	07MT001	2009	2A	50	2230	2249	19	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	2249	2269	20	BARE		
MT	07MT001	2009	2A	50	2269	2756	487	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	2756	2795	39	BARE		
MT	07MT001	2009	2A	50	2795	2909	114	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	2909	3015	106	BARE		
MT	07MT001	2009	2A	50	3005	3142	137	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	2A	50	3130	3205	75	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	3205	3236	31	BARE		
MT	07MT001	2009	2A	50	3236	3249	13	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	3249	3282	33	BARE		
MT	07MT001	2009	2A	50	3282	3389	107	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	2A	50	3365	3400	35	LITTER		
MT	07MT001	2009	2A	50	3400	3440	40	BARE		
MT	07MT001	2009	2A	50	3440	3460	20	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2009	2A	50	3460	3485	25	BARE		
MT	07MT001	2009	2A	50	3485	3965	480	UNIDG		unidentified graminoid
MT	07MT001	2009	2A	50	3905	3933	28	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	2A	50	3965	3980	15	BARE		
MT	07MT001	2009	2A	50	3980	4005	25	UNIDF		unidentified forb
MT	07MT001	2009	2A	50	4002	4060	58	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	2A	50	4055	5000	945	UNIDG		unidentified graminoid
MT	07MT001	2009	2B	50	0	1080	1080	UNIDG		unidentified graminoid

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	2B	50	460	474	14	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	2B	50	835	955	120	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	2B	50	1080	1113	33	BARE		
MT	07MT001	2009	2B	50	1113	1367	254	UNIDG		unidentified graminoid
MT	07MT001	2009	2B	50	1367	1400	33	BARE		
MT	07MT001	2009	2B	50	1400	1764	364	UNIDG		unidentified graminoid
MT	07MT001	2009	2B	50	1764	1795	31	BARE		
MT	07MT001	2009	2B	50	1795	2980	1185	UNIDG		unidentified graminoid
MT	07MT001	2009	2B	50	2980	3002	22	DUNG		
MT	07MT001	2009	2B	50	3002	3995	993	UNIDG		unidentified graminoid
										Mimosa aculeaticarpa
MT	07MT001	2009	2B	50	3980	3995	15	MIMACUB	MIACB	var. biuncifera
MT	07MT001	2009	2B	50	3995	4013	18	BARE		
MT	07MT001	2009	2B	50	4013	4136	123	UNIDG		unidentified graminoid
MT	07MT001	2009	2B	50	4065	4090	25	UNIDF		unidentified forb
MT	07MT001	2009	2B	50	4136	4220	84	LITTER		
MT	07MT001	2009	2B	50	4140	4285	145	UNIDF		unidentified forb
MT	07MT001	2009	2B	50	4220	5000	780	UNIDG		unidentified graminoid
MT	07MT001	2009	2B	50	4415	4516	101	UNIDF		unidentified forb
MT	07MT001	2009	2C	50	0	50	50	UNIDG		unidentified graminoid
MT	07MT001	2009	2C	50	50	73	23	LITTER		
MT	07MT001	2009	2C	50	73	1035	962	UNIDG		unidentified graminoid
MT	07MT001	2009	2C	50	1035	1065	30	BARE		
MT	07MT001	2009	2C	50	1065	5000	3935	UNIDG		unidentified graminoid
MT	07MT001	2009	2C	50	1853	1872	19	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2009	2C	50	3248	4280	1032	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	2C	50	3910	3942	32	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	2C	50	4709	4732	23	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	3A	50	0	36	36	BARE		
MT	07MT001	2009	3A	50	36	45	9	UNIDF		unidentified forb
MT	07MT001	2009	3A	50	45	104	59	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	88	107	19	UNIDF		unidentified forb
MT	07MT001	2009	3A	50	104	138	34	BARE		
MT	07MT001	2009	3A	50	138	493	355	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	493	525	32	BARE		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	3A	50	525	530	5	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	530	560	30	BARE		
MT	07MT001	2009	3A	50	560	715	155	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	657	665	8	UNIDF		unidentified forb
MT	07MT001	2009	3A	50	700	740	40	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	3A	50	740	780	40	LITTER		
MT	07MT001	2009	3A	50	780	1072	292	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	1072	1090	18	BARE		
MT	07MT001	2009	3A	50	1090	1310	220	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	1310	1340	30	BARE		
MT	07MT001	2009	3A	50	1340	1471	131	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	1470	1506	36	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	1471	1470	-1	BARE		
MT	07MT001	2009	3A	50	1506	1530	24	BARE		
MT	07MT001	2009	3A	50	1530	1553	23	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	1553	1596	43	BARE		
MT	07MT001	2009	3A	50	1596	1680	84	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	1680	1700	20	BARE		
MT	07MT001	2009	3A	50	1700	2082	382	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	2053	2070	17	UNIDF		unidentified forb
MT	07MT001	2009	3A	50	2082	2107	25	LITTER		
MT	07MT001	2009	3A	50	2107	2334	227	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	2149	2157	8	UNIDF		unidentified forb
MT	07MT001	2009	3A	50	2334	2357	23	BARE		
MT	07MT001	2009	3A	50	2357	2825	468	UNIDG		unidentified graminoid
										Mimosa aculeaticarpa
MT	07MT001	2009	3A	50	2740	2888	148	MIMACUB	MIACB	var. biuncifera
MT	07MT001	2009	3A	50	2825	2888	63	LITTER		
MT	07MT001	2009	3A	50	2888	2940	52	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	2940	2985	45	BARE		
MT	07MT001	2009	3A	50	2985	4076	1091	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	4076	4124	48	BARE		
MT	07MT001	2009	3A	50	4124	4187	63	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	4187	4210	23	BARE		
MT	07MT001	2009	3A	50	4210	4340	130	UNIDG		unidentified graminoid

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	3A	50	4340	4360	20	BARE		
MT	07MT001	2009	3A	50	4360	4436	76	UNIDG		unidentified graminoid
MT	07MT001	2009	3A	50	4436	4478	42	BARE		
MT	07MT001	2009	3A	50	4478	5000	522	UNIDG		unidentified graminoid
MT	07MT001	2009	3B	50	0	2147	2147	UNIDG		unidentified graminoid
MT	07MT001	2009	3B	50	460	535	75	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	3B	50	2147	2164	17	BARE		
MT	07MT001	2009	3B	50	2164	4420	2256	UNIDG		unidentified graminoid
MT	07MT001	2009	3B	50	3139	3182	43	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	3B	50	4284	4294	10	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2009	3B	50	4404	4485	81	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	3B	50	4420	4530	110	LITTER		
MT	07MT001	2009	3B	50	4530	5000	470	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	0	9	9	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	9	36	27	BARE		
MT	07MT001	2009	3C	50	36	92	56	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	92	107	15	BARE		
MT	07MT001	2009	3C	50	107	135	28	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	116	155	39	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	3C	50	135	151	16	LITTER		
MT	07MT001	2009	3C	50	151	393	242	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	193	240	47	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	3C	50	393	415	22	LITTER		
MT	07MT001	2009	3C	50	415	774	359	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	451	483	32	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	3C	50	774	797	23	BARE		
MT	07MT001	2009	3C	50	797	1712	915	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	1403	1890	487	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	3C	50	1639	1719	80	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	3C	50	1712	1743	31	LITTER		
MT	07MT001	2009	3C	50	1743	1770	27	BARE		
MT	07MT001	2009	3C	50	1770	2573	803	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	2540	2620	80	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	3C	50	2605	4040	1435	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	4040	4085	45	LITTER		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	3C	50	4085	5000	915	UNIDG		unidentified graminoid
MT	07MT001	2009	3C	50	4127	4184	57	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	3C	50	4250	4302	52	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	3C	50	4430	4500	70	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	4A	50	0	284	284	UNIDG		unidentified graminoid
MT	07MT001	2009	4A	50	284	315	31	LITTER		
MT	07MT001	2009	4A	50	315	372	57	UNIDG		unidentified graminoid
MT	07MT001	2009	4A	50	372	399	27	BARE		
MT	07MT001	2009	4A	50	399	769	370	UNIDG		unidentified graminoid
MT	07MT001	2009	4A	50	706	788	82	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	4A	50	769	843	74	LITTER		
MT	07MT001	2009	4A	50	843	1601	758	UNIDG		unidentified graminoid
MT	07MT001	2009	4A	50	1055	1085	30	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	4A	50	1601	1642	41	BARE		
MT	07MT001	2009	4A	50	1642	2806	1164	UNIDG		unidentified graminoid
MT	07MT001	2009	4A	50	1695	1755	60	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	4A	50	2806	2870	64	LITTER		
MT	07MT001	2009	4A	50	2825	2867	42	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	4A	50	2870	2895	25	UNIDG		unidentified graminoid
MT	07MT001	2009	4A	50	2895	2965	70	BARE		
MT	07MT001	2009	4A	50	2965	5000	2035	UNIDG		unidentified graminoid
MT	07MT001	2009	4A	50	4016	4080	64	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	4B	50	0	793	793	UNIDG		unidentified graminoid
MT	07MT001	2009	4B	50	730	950	220	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	4B	50	773	785	12	GUTSAR	GUSA2	Gutierrezia sarothrae
MT	07MT001	2009	4B	50	793	835	42	LITTER		
MT	07MT001	2009	4B	50	835	885	50	UNIDG		unidentified graminoid
MT	07MT001	2009	4B	50	885	970	85	LITTER		
MT	07MT001	2009	4B	50	970	1134	164	UNIDG		unidentified graminoid
MT	07MT001	2009	4B	50	1134	1167	33	BARE		
MT	07MT001	2009	4B	50	1167	3570	2403	UNIDG		unidentified graminoid
MT	07MT001	2009	4B	50	3079	3150	71	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	4B	50	3570	3590	20	BARE		
MT	07MT001	2009	4B	50	3590	3778	188	UNIDG		unidentified graminoid
MT	07MT001	2009	4B	50	3778	3800	22	DUNG		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	4B	50	3800	3844	44	UNIDG		unidentified graminoid
MT	07MT001	2009	4B	50	3844	3852	8	BARE		
MT	07MT001	2009	4B	50	3852	3864	12	DUNG		
MT	07MT001	2009	4B	50	3864	4240	376	UNIDG		unidentified graminoid
MT	07MT001	2009	4B	50	4240	4257	17	BARE		
MT	07MT001	2009	4B	50	4257	5000	743	UNIDG		unidentified graminoid
MT	07MT001	2009	4C	50	0	430	430	UNIDG		unidentified graminoid
MT	07MT001	2009	4C	50	430	444	14	DUNG		
MT	07MT001	2009	4C	50	444	4001	3557	UNIDG		unidentified graminoid
MT	07MT001	2009	4C	50	2247	2358	111	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	4C	50	3450	3459	9	OPUPOL	OPPO	Opuntia polyacantha
MT	07MT001	2009	4C	50	4001	4019	18	DUNG		
MT	07MT001	2009	4C	50	4019	4177	158	UNIDG		unidentified graminoid
MT	07MT001	2009	4C	50	4177	4196	19	DUNG		
MT	07MT001	2009	4C	50	4196	4870	674	UNIDG		unidentified graminoid
MT	07MT001	2009	4C	50	4870	4890	20	DUNG		
MT	07MT001	2009	4C	50	4890	5000	110	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	0	29	29	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	29	46	17	BARE		
MT	07MT001	2009	5A	50	46	84	38	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	84	95	11	BARE		
MT	07MT001	2009	5A	50	95	102	7	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	102	118	16	BARE		
MT	07MT001	2009	5A	50	118	180	62	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	180	199	19	BARE		
MT	07MT001	2009	5A	50	199	211	12	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	211	220	9	DUNG		
MT	07MT001	2009	5A	50	220	970	750	UNIDG		unidentified graminoid
										Mimosa aculeaticarpa
MT	07MT001	2009	5A	50	919	1020	101	MIMACUB	MIACB	var. biuncifera
MT	07MT001	2009	5A	50	970	1012	42	BARE		
MT	07MT001	2009	5A	50	1012	1060	48	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	1060	1075	15	LITTER		
MT	07MT001	2009	5A	50	1075	1288	213	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	1288	1304	16	DUNG		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	5A	50	1304	1719	415	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	1719	1753	34	BARE		
MT	07MT001	2009	5A	50	1753	1770	17	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	1770	1795	25	BARE		
MT	07MT001	2009	5A	50	1795	1822	27	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	1822	1839	17	BARE		
MT	07MT001	2009	5A	50	1839	1890	51	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	1875	1876	1	UNIDF		unidentified forb
MT	07MT001	2009	5A	50	1890	1905	15	BARE		
MT	07MT001	2009	5A	50	1905	2372	467	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	1917	2034	117	YUCGLA	YUGL	Yucca glauca
MT	07MT001	2009	5A	50	2372	2414	42	LITTER		
MT	07MT001	2009	5A	50	2414	2447	33	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	2447	2470	23	BARE		
MT	07MT001	2009	5A	50	2470	2910	440	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	2910	2925	15	BARE		
MT	07MT001	2009	5A	50	2925	3044	119	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	3044	3066	22	BARE		
MT	07MT001	2009	5A	50	3066	3117	51	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	3117	3138	21	BARE		
MT	07MT001	2009	5A	50	3138	3645	507	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	3645	3666	21	BARE		
MT	07MT001	2009	5A	50	3666	3870	204	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	3870	3890	20	BARE		
MT	07MT001	2009	5A	50	3890	4420	530	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	4420	4559	139	BARE		
MT	07MT001	2009	5A	50	4559	4676	117	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	4665	5000	335	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	5A	50	4676	4722	46	LITTER		
MT	07MT001	2009	5A	50	4722	4795	73	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	4795	4810	15	LITTER		
MT	07MT001	2009	5A	50	4810	4846	36	UNIDG		unidentified graminoid
MT	07MT001	2009	5A	50	4846	4874	28	LITTER		
MT	07MT001	2009	5A	50	4874	5000	126	UNIDG		unidentified graminoid
MT	07MT001	2009	5B	50	0	22	22	LITTER		

				Tran					NM_K_	
Treatment	PlotID	Year	Transect	Len	Start	End	Dist	GCclass	Symbol	NMSpName
MT	07MT001	2009	5B	50	22	122	100	UNIDG		unidentified graminoid
MT	07MT001	2009	5B	50	122	165	43	DUNG		
MT	07MT001	2009	5B	50	165	635	470	UNIDG		unidentified graminoid
MT	07MT001	2009	5B	50	385	456	71	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	5B	50	635	655	20	DUNG		
MT	07MT001	2009	5B	50	655	2030	1375	UNIDG		unidentified graminoid
MT	07MT001	2009	5B	50	1914	1974	60	PROGLA	PRGL2	Prosopis glandulosa
MT	07MT001	2009	5B	50	2030	2060	30	DUNG		
MT	07MT001	2009	5B	50	2060	3625	1565	UNIDG		unidentified graminoid
MT	07MT001	2009	5B	50	3625	3643	18	DUNG		
MT	07MT001	2009	5B	50	3643	5000	1357	UNIDG		unidentified graminoid
MT	07MT001	2009	5C	50	0	14	14	UNIDG		unidentified graminoid
MT	07MT001	2009	5C	50	14	37	23	LITTER		
MT	07MT001	2009	5C	50	37	149	112	UNIDG		unidentified graminoid
MT	07MT001	2009	5C	50	149	170	21	DUNG		
MT	07MT001	2009	5C	50	170	295	125	UNIDG		unidentified graminoid
MT	07MT001	2009	5C	50	295	317	22	DUNG		
MT	07MT001	2009	5C	50	317	385	68	UNIDG		unidentified graminoid
MT	07MT001	2009	5C	50	385	418	33	DUNG		
MT	07MT001	2009	5C	50	418	1810	1392	UNIDG		unidentified graminoid
MT	07MT001	2009	5C	50	1810	1837	27	DUNG		
MT	07MT001	2009	5C	50	1837	2632	795	UNIDG		unidentified graminoid
MT	07MT001	2009	5C	50	2632	2652	20	BARE		
MT	07MT001	2009	5C	50	2652	4860	2208	UNIDG		unidentified graminoid
MT	07MT001	2009	5C	50	3180	3205	25	UNIDF		unidentified forb
MT	07MT001	2009	5C	50	4860	4876	16	DUNG		
MT	07MT001	2009	5C	50	4876	5000	124	UNIDG		unidentified graminoid

# Appendix C. List of plant species recorded between 2007 and 2009 for the Landowner Incentive Program: Wildlife Habitat Improvement of the Parkinson Ranch, Milnesand, New Mexico.

Table C1. Plant species arranged by life form and alphabetically by scientific name followed by the common name and plant family; NHNM Acronym refers to the Natural Heritage New Mexico database code for species; PLANT symbol is database code for the USDA PLANTS database; Distribution is coded by sampling location where GC=grazing control; GR=grazing rotational; GY=grazing year-round; MT=mesquite treatment; Map=vegetation map. Whether a voucher collection was made for the species is indicated in the last column.

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		Juniperus									
1	Tree	monosperma	oneseed juniper	Cupressaceae	JUNMON	JUMO				Х	No
1	Tree	Sapindus saponaria	wingleaf soapberry	Sapindaceae	SAPSAP	SASA4				х	No
2	Shrub	Acacia spp.	acacia	Fabaceae	ACACIA	ACACI				Х	No
2	Shrub	Artemisia filifolia	sand sagebrush	Asteraceae	ARTFIL	ARFI2	Χ			Х	No
2	Shrub	Atriplex canescens	fourwing saltbush	Chenopodiaceae	ATRCAN	ATCA2				Х	No
2	Shrub	Baccharis spp.	baccharis	Asteraceae	BACCHA	BACCH				Χ	No
2	Shrub	Condalia ericoides	javelina bush	Rhamnaceae	CONERI	COER5				Х	No
2	Shrub	Cylindropuntia imbricata	tree cholla	Cactaceae	CYLIMB	OPIM	Х		Х	Х	No
2	Shrub	Cylindropuntia leptocaulis	Christmas cactus	Cactaceae	CYLLEP	CYLE8				Х	No
2	Shrub	Ephedra spp.	jointfir	Ephedraceae	EPHEDR	EPHED				Х	No
2	Shrub	Ephedra torreyana	Torrey's jointfir	Ephedraceae	EPHTOR	EPTO				Х	No
2	Shrub	Ericameria spp.	heath goldenrod	Asteraceae	ERICAM	ERICA2				Х	No
2	Shrub	Flourensia cernua	tarbush	Asteraceae	FLOCER	FLCE				Х	No
2	Shrub	Koeberlinia spinosa	crown of thorns	Koeberliniaceae	KOESPI	KOSP				Х	No
2	Shrub	Larrea tridentata	creosotebush	Zygophyllaceae	LARTRI	LATR2				Χ	No

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		Lorandersonia	southwestern								
2	Shrub	pulchella	rabbitbrush	Asteraceae	LORPUL	CHPU4				Х	Yes
2	Shrub	Mimosa aculeaticarpa var. biuncifera	catclaw mimosa	Fabaceae	MIMACUB	MIACB		Х	Х	Х	Yes
2	Shrub	Prosopis glandulosa	honey mesquite	Fabaceae	PROGLA	PRGL2		Χ	Χ	X	No
2	Shrub	Quercus havardii	shinnery oak	Fagaceae	QUEHAV	QUHA3	X	Χ		Х	Yes
2	Shrub	Rhus microphylla	littleleaf sumac	Anacardiaceae	RHUMIC	RHMI3				Х	Yes
2	Shrub	Yucca elata	soaptree yucca	Agavaceae	YUCELA	YUEL				Х	No
			soapweed								
2	Shrub	Yucca glauca	yucca	Agavaceae	YUCGLA	YUGL	X	Χ	Χ	Х	No
2	Shrub	Ziziphus obtusifolia	lotebush	Rhamnaceae	ZIZOBT	ZIOB				Х	Yes
2.5	Sub- shrub	Brickellia eupatorioides var. chlorolepis	No boneset	Asteraceae	BRIEUPC	BREUC2				Х	Yes
2.5	Sub- shrub	Dalea formosa	featherplume	Fabaceae	DALFOR	DAFO				Х	Yes
2.5	Sub- shrub	Echinocactus texensis	horse crippler	Cactaceae	ECHTEX	ECTE				Х	No
2.5	Sub- shrub	Escobaria vivipara var. vivipara	spinystar	Cactaceae	ESCVIVV	ESVIV				Х	No
2.5	Sub- shrub	Gutierrezia sarothrae	broom snakeweed	Asteraceae	GUTSAR	GUSA2	Х	Х	Х	Х	Yes
2.5	Sub- shrub	Krameria grayi	white ratany	Krameriaceae	KRAGRA	KRGR				Х	No
2.5	Sub- shrub	Mammillaria spp.	nipple cactus	Cactaceae	MAMMIL	MAMMI				Х	No
2.5	Sub- shrub	Opuntia phaeacantha	tulip pricklypear	Cactaceae	ОРИРНА	ОРРН	Х			Х	No
2.5	Sub- shrub	Opuntia polyacantha	plains pricklypear	Cactaceae	OPUPOL	ОРРО	Х		Х	Х	No
2.5	Sub- shrub	Parthenium incanum	mariola	Asteraceae	PARINC	PAIN2				Х	No
2.5	Sub- shrub	Thymophylla acerosa	pricklyleaf dogweed	Asteraceae	THYACE	THAC				Х	No
3	Grass	Andropogon hallii	sand bluestem	Poaceae	ANDHAL	ANHA	Χ	Χ		X	Yes

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
	_		poverty								
3	Grass	Aristida divaricata	threeawn	Poaceae	ARIDIV	ARDI5		Х	Х	Х	Yes
3	Grass	Aristida purpurea	purple threeawn	Poaceae	ARIPUR	ARPU9	Х	Х	Χ	Х	Yes
3	Grass	Aristida purpurea var. longiseta	red threeawn	Poaceae	ARIPURL	ARPUL		Х	Х		Yes
3	Grass	Aristida purpurea var. purpurea	purple threeawn	Poaceae	ARIPURP	ARPUP6			Х		Yes
3	Grass	Bothriochloa laguroides ssp. torreyana	silver beardgrass	Poaceae	BOTLAGT	BOLAT		Х		Х	Yes
3	Grass	Bouteloua curtipendula	sideoats grama	Poaceae	BOUCUR	BOCU	Х	Х		Х	Yes
3	Grass	Bouteloua eriopoda	black grama	Poaceae	BOUERI	BOER4			Χ	Χ	Yes
3	Grass	Bouteloua gracilis	blue grama	Poaceae	BOUGRA	BOGR2			Χ	Х	Yes
3	Grass	Bouteloua hirsuta	hairy grama	Poaceae	BOUHIR	BOHI2	Х	Χ		Х	Yes
3	Grass	Buchloe dactyloides	buffalograss	Poaceae	BUCDAC	BUDA			Χ	Х	Yes
3	Grass	Cenchrus spinifex	sandbur	Poaceae	CENSPI	CESP4		Χ	Χ	Х	Yes
3	Grass	Chloris crinita	No Rhodes grass	Poaceae	CHLCRI	CHCR				Х	No
3	Grass	Chloris cucullata	hooded windmill grass	Poaceae	CHLCUC	CHCU2			Х	Х	Yes
3	Grass	Chloris verticillata	tumble windmill grass	Poaceae	CHLVER	CHVE2		Х	Х	Х	Yes
3	Grass	Cyperus esculentus	chufa flatsedge	Cyperaceae	CYPESC	CYES				Χ	No
3	Grass	Cyperus retroflexus	oneflower flatsedge	Cyperaceae	CYPRET	CYRE14	Х	Х		Х	Yes
3	Grass	Dasyochloa pulchella	fluffgrass	Poaceae	DASPUL	DAPU7				Х	Yes
3	Grass	Digitaria californica	Arizona cottontop	Poaceae	DIGCAL	DICA8				Х	Yes
3	Grass	Digitaria pubiflora	Carolina crabgrass	Poaceae	DIGPUB	DIPU9	Х	Х		Х	Yes
3	Grass	Elymus elymoides	bottlebrush squirreltail	Poaceae	ELYELY	ELEL5			Х	Х	No
3	Grass	Eragrostis cilianensis	stinkgrass	Poaceae	ERACIL	ERCI			Χ		Yes
3	Grass	Eragrostis	gummy	Poaceae	ERACUR	ERCU		Χ	Χ	Х	Yes

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		curtipedicellata	lovegrass								
3	Grass	Eragrostis curvula	weeping lovegrass	Poaceae	ERACUR2	ERCU2				Х	Yes
3	Grass	Eragrostis lehmanniana	Lehmann's lovegrass	Poaceae	ERALEH	ERLE				Х	Yes
3	Grass	Eragrostis secundiflora	red lovegrass	Poaceae	ERASEC	ERSE	Х	Х		Х	Yes
3	Grass	Eragrostis sessilispica	tumble lovegrass	Poaceae	ERASES	ERSE2	Х	Х		Х	Yes
3	Grass	Eragrostis trichodes	sand lovegrass	Poaceae	ERATRI	ERTR3				Х	Yes
3	Grass	Hesperostipa comata ssp. comata	needle-and- thread grass	Poaceae	HESCOMC	HECOC8		Х		Х	Yes
3	Grass	Hesperostipa neomexicana	New Mexico needlegrass	Poaceae	HESNEO	HENE5				Х	No
3	Grass	Lycurus phleoides	common wolfstail	Poaceae	LYCPHL	LYPH				Х	No
3	Grass	Lycurus setosus	bristly wolfstail	Poaceae	LYCSET	LYSE3		Χ		X	Yes
3	Grass	Muhlenbergia arenicola	sand muhly	Poaceae	MUHARE2	MUAR2			Х	Х	Yes
3	Grass	Muhlenbergia porteri	bush muhly	Poaceae	MUHPOR	MUPO2			Χ	Χ	Yes
3	Grass	Muhlenbergia repens	creeping muhly	Poaceae	MUHREP	MURE				Χ	No
3	Grass	Muhlenbergia torreyi	ring muhly	Poaceae	MUHTOR	MUTO2				Χ	Yes
3	Grass	Munroa squarrosa	No buffalograss	Poaceae	MUNSQU	MUSQ3	Χ	Χ	Χ	Х	Yes
3	Grass	Panicum hallii	Hall's panicgrass	Poaceae	PANHAL	PAHA			Х		Yes
3	Grass	Panicum obtusum	vine mesquite	Poaceae	PANOBT	PAOB			Χ	Χ	Yes
3	Grass	Panicum virgatum	switchgrass	Poaceae	PANVIR	PAVI2				Χ	Yes
3	Grass	Pascopyrum smithii	western wheatgrass	Poaceae	PASSMI	PASM					No
3	Grass	Paspalum setaceum var. stramineum	yellow sand paspalum	Poaceae	PASSETS	PASES	Х	Х		Х	Yes
3	Grass	Pleuraphis mutica	tobosa	Poaceae	PLEMUT	PLMU3				Х	Yes
3	Grass	Schedonnardus paniculatus	tumblegrass	Poaceae	SCHPAN	SCPA			Х		Yes
3	Grass	Schizachyrium	little bluestem	Poaceae	SCHSCO	SCSC	Х	Х		Х	Yes

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		scoparium									
3	Grass	Scleropogon brevifolius	burrograss	Poaceae	SCLBRE	SCBR2				Х	Yes
			streambed								
3	Grass	Setaria leucopila	bristlegrass	Poaceae	SETLEU	SELE6				X	Yes
3	Grass	Sorghum halepense	johnsongrass	Poaceae	SORHAL	SOHA			Χ		Yes
3	Grass	Sporobolus contractus	spike dropseed	Poaceae	SPOCON	SPCO4				Х	No
3	Grass	Sporobolus cryptandrus	sand dropseed	Poaceae	SPOCRY	SPCR	X	Х	Х	X	No
3	Grass	Sporobolus flexuosus	mesa dropseed	Poaceae	SPOFLE	SPFL2			Х	Х	No
3	Grass	Sporobolus giganteus	giant dropseed	Poaceae	SPOGIG	SPGI				X	No
3	Grass	Urochloa ciliatissima	fringed signalgrass	Poaceae	UROCIL	URCI				Х	Yes
3	Grass	Vulpia octoflora	sixweeks fescue	Poaceae	VULOCT	VUOC				Х	No
4	Forb	Acourtia nana	desert holly	Asteraceae	ACONAN	ACNA2				Х	No
4	Forb	Amaranthus palmeri	carelessweed	Amaranthaceae	AMAPAL	AMPA			Χ		Yes
4	Forb	Ambrosia psilostachya	Cuman ragweed	Asteraceae	AMBPSI	AMPS	Х	Х	Х	Х	Yes
4	Forb	Aphanostephus ramosissimus	plains dozedaisy	Asteraceae	APHRAM	APRA	Х	Х	Х	Х	Yes
4	Forb	Artemisia campestris	field sagewort	Asteraceae	ARTCAM	ARCA12				Х	Yes
4	Forb	Artemisia carruthii	Carruth's sagewort	Asteraceae	ARTCAR	ARCA14			Х	Х	Yes
4	Forb	Artemisia dracunculus	tarragon	Asteraceae	ARTDRA	ARDR4					Yes
4	Forb	Artemisia ludoviciana	white sagebrush	Asteraceae	ARTLUD	ARLU				Х	No
4	Forb	Asclepias engelmanniana	Engelman's milkweed	Asclepiadaceae	ASCENG	ASEN		Х			Yes
4	Forb	Asclepias latifolia	broadleaf milkweed	Asclepiadaceae	ASCLAT	ASLA4				Х	No
4	Forb	Asclepias pumila	plains milkweed	Asclepiadaceae	ASCPUM	ASPU	Χ	Χ			Yes
4	Forb	Asclepias viridiflora	green comet	Asclepiadaceae	ASCVIR	ASVI			Χ		Yes

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
			milkweed								
		Astragalus	woolly								
4	Forb	mollissimus	milkvetch	Fabaceae	ASTMOL	ASMO7	X				Yes
4	Forb	Astragalus spp.	milkvetch	Fabaceae	ASTRAG	ASTRA				Χ	No
			lyreleaf								
4	Forb	Berlandiera lyrata	greeneyes	Asteraceae	BERLYR	BELY			Χ	Х	No
4	Forb	Calylophus serrulatus	yellow sundrops	Onagraceae	CALSER	CASE12	Χ	Χ		Х	Yes
4	Forb	Chaetopappa ericoides	rose heath	Asteraceae	CHAERI	CHER2		Х	Х	X	No
- 4	FOID	encoides	Fendler's	Asieraceae	CHAEKI	CHERZ		^	^	^	INO
4	Forb	Chamaesyce fendleri	sandmat	Euphorbiaceae	CHAFEN	CHFE3	Х	Х		Х	Yes
		Chamaesyce	ribseed								
4	Forb	glyptosperma	sandmat	Euphorbiaceae	CHAGLY	CHGL13	X	Χ	Χ	Х	Yes
4	Forb	Chamaesyce lata	hoary sandmat	Euphorbiaceae	CHALAT	CHLA10			Χ	Χ	Yes
4	Forb	Chamaesyce missurica	prairie sandmat	Euphorbiaceae	CHAMIS	CHMI8	X				Yes
•	1 0.0	Chenopodium	pitseed	Zupriorbiacoao	011711110	01					
4	Forb	berlandieri	goosefoot	Chenopodiaceae	CHEBER	CHBE4					Yes
		Chenopodium	sandhill	'							
4	Forb	cycloides	goosefoot	Chenopodiaceae	CHECYC	CHCY	X	Χ			Yes
4	Forb	Cirsium undulatum	wavyleaf thistle	Asteraceae	CIRUND	CIUN			Χ	Х	Yes
		Comandra umbellata	pale bastard								
4	Forb	ssp. pallida	toadflax	Santalaceae	COMUMBP	COUMP	Х	Χ			Yes
		Commelina	birdbill								
4	Forb	dianthifolia	dayflower	Commelinaceae	COMDIA	CODI4		Χ			No
			whitemouth		0014555	0055		.,			
4	Forb	Commelina erecta	dayflower	Commelinaceae	COMERE	COER	Х	Х	Х	Х	Yes
4	Forb	Conyza canadensis	Canadian horseweed	Asteraceae	CONCAN	COCA5	X		Х		Yes
·			grassland								
4	Forb	Croton dioicus	croton	Euphorbiaceae	CRODIO	CRDI6				Х	Yes
4	Forb	Croton pottsii	leatherweed	Euphorbiaceae	CROPOT	CRPO5				Х	No
4	Forb	Croton texensis	Texas croton	Euphorbiaceae	CROTEX	CRTE4		Х		Х	Yes
		Cryptantha cinerea									
4	Forb	var. cinerea	James' catseye	Boraginaceae	CRYCINC	CRCIC	Χ	Χ		X	Yes

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		Cryptantha									
4	Forb	crassisepala	hiddenflower	Boraginaceae	CRYCRA	CRCR3				Χ	No
4	Forb	Cryptantha minima	little cryptantha	Boraginaceae	CRYMIN	CRMI5				Х	Yes
4	Forb	Cycloloma atriplicifolium	winged pigweed	Chenopodiaceae	CYCATR	CYAT	Х	Х			Yes
4	Forb	Dalea lanata	woolly prairieclover	Fabaceae	DALLAN	DALA3				Χ	No
4	Forb	Dalea nana var. nana	dwarf prairie clover	Fabaceae	DALNANN	DANAN	X	Х			Yes
4	Forb	Dalea purpurea	purple prairieclover	Fabaceae	DALPUR	DAPU5	Х	Х		Х	Yes
4	Forb	Dalea villosa var. villosa	silky prairie clover	Fabaceae	DALVILV	DAVIV					Yes
4	Forb	Delphinium spp.	larkspur	Ranunculaceae	DELPHI	DELPH				Х	No
4	Forb	Dimorphocarpa wislizeni	spectacle pod	Brassicaceae	DIMWIS	DIWI2	Х	Х		Х	Yes
4	Forb	Dyssodia papposa	fetid marigold	Asteraceae	DYSPAP	DYPA			Χ	Х	Yes
4	Forb	Echinacea angustifolia	prairie coneflower	Asteraceae	ECHANG	ECAN2				Х	No
4	Forb	Erigeron bellidiastrum var. bellidiastrum	western daisy fleabane	Asteraceae	ERIBELB	ERBEB	Х	Х		Х	Yes
4	Forb	Eriogonum alatum	winged buckwheat	Polygonaceae	ERIALA	ERAL4				Х	Yes
4	Forb	Eriogonum annuum	annual buckwheat	Polygonaceae	ERIANN	ERAN4	Х	Х	Х	Х	Yes
4	Forb	Euphorbia davidii	David's spurge	Euphorbiaceae	EUPDAV	EUDA5		Χ			No
4	Forb	Evolvulus sericeus	silver dwarf morningglory	Convolvulaceae	EVOSER	EVSE	Х	Х		Х	Yes
4	Forb	Froelichia gracilis	slender snakecotton	Amaranthaceae	FROGRA	FRGR3	Х	Х		Х	Yes
4	Forb	Gaillardia pulchella	firewheel	Asteraceae	GAIPUL	GAPU				Χ	Yes
4	Forb	Gaura coccinea	scarlet beeblossom	Onagraceae	GAUCOC	GACO5			Х	Х	Yes
4	Forb	Gaura mollis	velvetweed	Onagraceae	GAUMOL	GAMO5			Χ	Х	Yes
4	Forb	Gaura villosa	wolly gaura	Onagraceae	GAUVIL	GAVI2	Х	Χ			Yes

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
4	Forb	Glandularia spp.	vervain	Verbenaceae	GLANDU	GLAND				Х	No
4	Forb	Grindelia squarrosa	curlycup gumweed	Asteraceae	GRISQU	GRSQ					Yes
4	Forb	Helianthus annuus	common sunflower	Asteraceae	HELANN	HEAN3				Х	No
4	Forb	Helianthus petiolaris ssp. petiolaris	prairie sunflower	Asteraceae	HELPETP	HEPEP			Х	Х	Yes
4	Forb	Heliotropium convolvulaceum	phlox heliotrope	Boraginaceae	HELCON2	HECO5				Х	Yes
4	Forb	Heterotheca subaxillaris	camphorweed	Asteraceae	HETSUB	HESU3	Х	Х	Х		Yes
4	Forb	Heterotheca villosa	hairy goldenaster	Asteraceae	HETVIL	HEVI4	Х	Х		Х	Yes
4	Forb	Hoffmannseggia spp.	rushpea	Fabaceae	HOFFMA	HOFFM				Х	No
4	Forb	Houstonia humifusa	matted bluet	Rubiaceae	HOUHUM	HOHU				X	Yes
4	Forb	Hymenopappus flavescens var. canotomentosus	collegeflower	Asteraceae	HYMFLAC	HYFLC	X	Х	Х	Х	Yes
4	Forb	Ipomoea leptophylla	bush morningglory	Convolvulaceae	IPOLEP	IPLE				Х	No
4	Forb	Ipomopsis spp.	gilia	Polemoniaceae	IPOMOP	IPOMO2				Х	Yes
4	Forb	Krameria lanceolata	trailing krameria	Krameriaceae	KRALAN	KRLA	Χ			Х	Yes
4	Forb	Lappula occidentalis	flatspine stickseed	Boraginaceae	LAPOCC	LAOC3				Х	No
4	Forb	Lechea mucronata	hairy pinweed	Cistaceae	LECMUC	LEMU3	Χ	Χ		Х	Yes
4	Forb	Liatris punctata	dotted gayfeather	Asteraceae	LIAPUN	LIPU	Х	Х			Yes
4	Forb	Linum rigidum var. rigidum	stiffstem flax	Linaceae	LINRIGR	LIRIR	Х	Х		Х	Yes
4	Forb	Lithospermum multiflorum	manyflowered gromwell	Boraginaceae	LITMUL	LIMU3	Х	Х	Х		Yes
4	Forb	Loeflingia squarrosa	spreading pygmyleaf	Caryophyllaceae	LOESQU	LOSQ	Х				Yes
4	Forb	Machaeranthera tanacetifolia	tanseyleaf aster	Asteraceae	MACTAN	MATA2			Х		Yes

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
4	Forb	Marrubium vulgare	horehound	Lamiaceae	MARVUL	MAVU				Χ	No
4	Forb	Melampodium leucanthum	plains blackfoot	Asteraceae	MELLEU	MELE2	Х	Х		Х	Yes
4	Forb	Mentzelia albicaulis	whitestem blazingstar	Loasaceae	MENALB	MEAL6				Х	No
4	Forb	Mimosa quadrivalvis var. occidentalis	eastern sensitive plant	Fabaceae	MIMQUAO	MIQUO				Х	Yes
4	Forb	Mirabilis glabra	smooth four o'clock	Nyctaginaceae	MIRGLA	MIGL3				Х	Yes
4	Forb	Mirabilis linearis	narrowleaf four o'clock	Nyctaginaceae	MIRLIN	MILI3	Х	Х		Х	Yes
4	Forb	Mollugo verticillata	green carpetweed	Molluginaceae	MOLVER	MOVE			Х		Yes
4	Forb	Monarda punctata	spotted beebalm	Lamiaceae	MONPUN	MOPU				Х	Yes
4	Forb	Nama hispidum	bristly nama	Hydrophyllaceae	NAMHIS	NAHI			Χ	Χ	Yes
4	Forb	Palafoxia rosea	rosy palafox	Asteraceae	PALROS	PARO				Χ	Yes
4	Forb	Palafoxia sphacelata	sand palafoxia	Asteraceae	PALSPH	PASP	Χ	Χ	Χ	Χ	Yes
4	Forb	Paronychia jamesii	James' nailwort	Caryophyllaceae	PARJAM	PAJA	Χ	Χ		Χ	Yes
4	Forb	Parthenium confertum var. lyratum	Gray's feverfew	Asteraceae	PARCONL	PACOL			X		No
4	Forb	Penstemon spp.	beardtongue	Scrophulariaceae	PENSTE	PENST				Х	Yes
4	Forb	Phacelia integrifolia	gypsum scorpionweed	Hydrophyllaceae	PHAINT	PHIN				Х	No
4	Forb	Phemeranthus calycinus	largeflower fameflower	Portulacaceae	PHECAL	PHCA48	Х				Yes
4	Forb	Physalis cinerascens var. cinerascens	smallflower groundcherry	Solanaceae	PHYCINC	PHCIC3			Х	Х	Yes
4	Forb	Physaria gordonii	Gordon's bladderpod	Brassicaceae	PHYGOR	LEGO				Х	No
4	Forb	Plantago patagonica	woolly plantain	Plantaginaceae	PLAPAT	PLPA2		Χ		Χ	No
4	Forb	Plantago wrightiana	Wright's plantain	Plantaginaceae	PLAWRI4	PLWR	Х		Х		Yes
4	Forb	Polanisia jamesii	James'	Capparaceae	POLJAM	POJA3					Yes

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
			clammyweed								
4	Forb	Polygala alba	white milkwort	Polygalaceae	POLALB	POAL4				Х	No
4	Forb	Polygonum spp.	knotweed	Polygonaceae	POLYGO	POLYG4				Х	No
4	Forb	Pomaria jamesii	James's hog- potato	Fabaceae	POMJAM	POJA5	Х	Χ		Х	Yes
4	Forb	Portulaca oleracea	common purslane	Portulacaceae	POROLE	POOL			Х		No
4	Forb	Portulaca pilosa	kiss me quick	Portulacaceae	PORPIL	POPI3			Χ	Х	Yes
4	Forb	Psilostrophe tagetina Psoralidium	woolly paperflower slimflower	Asteraceae	PSITAG	PSTA	х	Х		Х	Yes
4	Forb	tenuiflorum	scurfpea	Fabaceae	PSOTEN	PSTE5	X				Yes
4	Forb	Ratibida columnifera	upright prairie coneflower	Asteraceae	RATCOL	RACO3			Х		Yes
4	Forb	Salsola tragus	prickly Russian thistle	Chenopodiaceae	SALTRA	SATR12			X		Yes
4	Forb	Salvia reflexa	lanceleaf sage	Lamiaceae	SALREF	SARE3				Х	Yes
4	Forb	Senecio flaccidus var. flaccidus	threadleaf ragwort	Asteraceae	SENFLAF	SEFLF				Х	No
4	Forb	Senecio spartioides	broom groundsel	Asteraceae	SENSPA	SESP3				Χ	No
4	Forb	Senna bauhinioides	twinleaf senna	Fabaceae	SENBAU	SEBA3				Х	No
4	Forb	Senna roemeriana	twoleaf wild sensitive plant	Fabaceae	SENROE	SERO8				Χ	Yes
4	Forb	Solanum elaeagnifolium	silverleaf nightshade	Solanaceae	SOLELA	SOEL			Х	Х	No
4	Forb	Solanum rostratum	buffalobur nightshade	Solanaceae	SOLROS	SORO			Х	Х	Yes
4	Forb	Sphaeralcea coccinea	scarlet globemallow	Malvaceae	SPHCOC	SPCO			Х	Х	No
4	Forb	Stephanomeria pauciflora	brownplume wirelettuce	Asteraceae	STEPAU	STPA4			Х	Х	No
4	Forb	Stillingia sylvatica	queen's-delight	Euphorbiaceae	STISYL	STSY				Х	Yes
4	Forb	Teucrium laciniatum	lacy germander	Lamiaceae	TEULAC	TELA			Χ	Χ	Yes
4	Forb	Thelesperma	Hopi tea	Asteraceae	THEMEG	THME	Χ	Χ		Χ	Yes

Life Form Code	Life form	Scientific Name	Common Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		megapotamicum	greenthread								
4	Forb	Townsendia exscapa	stemless townsendia	Asteraceae	TOWEXS	TOEX2					Yes
4	Forb	Verbena bracteata	bigbract verbena	Verbenaceae	VERBRA	VEBR			Х		Yes
4	Forb	Verbesina encelioides	golden crownbeard	Asteraceae	VERENC	VEEN			Х		Yes
4	Forb	Xanthisma spinulosum	lacy tansyaster	Asteraceae	XANSPI2	MAPI	Х	Х	Х	Х	Yes
4	Forb	Xanthisma texanum ssp. drummondii	Texas sleepydaisy	Asteraceae	XANTEXD	XATED2	Х	Х	Х	Х	Yes
4	Forb	Zinnia grandiflora	Rocky Mountain zinnia	Asteraceae	ZINGRA	ZIGR			Х	Х	Yes

Table C2. Plant species arranged by life form and alphabetically by common name followed by the scientific name and plant family; NHNM Acronym refers to the Natural Heritage New Mexico database code for species; PLANT symbol is database code for the USDA PLANTS database; Distribution is coded by sampling location where GC=grazing control; GR=grazing rotational; GY=grazing year-round; MT=mesquite treatment; Map=vegetation map. Whether a voucher collection was made for the species is indicated in the last column.

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
			Juniperus								
1	Tree	oneseed juniper	monosperma	Cupressaceae	JUNMON	JUMO				Х	No
		wingleaf									
1	Tree	soapberry	Sapindus saponaria	Sapindaceae	SAPSAP	SASA4				Х	No
2	Shrub	acacia	Acacia spp.	Fabaceae	ACACIA	ACACI				Х	No
2	Shrub	baccharis	Baccharis spp.	Asteraceae	BACCHA	BACCH				Х	No
			Mimosa aculeaticarpa								
2	Shrub	catclaw mimosa	var. biuncifera	Fabaceae	MIMACUB	MIACB		Χ	Χ	Χ	Yes
		Christmas	Cylindropuntia								
2	Shrub	cactus	leptocaulis	Cactaceae	CYLLEP	CYLE8				Х	No
2	Shrub	creosotebush	Larrea tridentata	Zygophyllaceae	LARTRI	LATR2				Χ	No
2	Shrub	crown of thorns	Koeberlinia spinosa	Koeberliniaceae	KOESPI	KOSP				Х	No
		fourwing									
2	Shrub	saltbush	Atriplex canescens	Chenopodiaceae	ATRCAN	ATCA2				Χ	No
		heath									
2	Shrub	goldenrod	Ericameria spp.	Asteraceae	ERICAM	ERICA2				Χ	No
2	Shrub	honey mesquite	Prosopis glandulosa	Fabaceae	PROGLA	PRGL2		Χ	Χ	Х	No
2	Shrub	javelina bush	Condalia ericoides	Rhamnaceae	CONERI	COER5				Х	No
2	Shrub	jointfir	Ephedra spp.	Ephedraceae	EPHEDR	EPHED				Х	No
2	Shrub	littleleaf sumac	Rhus microphylla	Anacardiaceae	RHUMIC	RHMI3				Х	Yes
2	Shrub	lotebush	Ziziphus obtusifolia	Rhamnaceae	ZIZOBT	ZIOB				Х	Yes
2	Shrub	sand sagebrush	Artemisia filifolia	Asteraceae	ARTFIL	ARFI2	Х			Х	No
2	Shrub	shinnery oak	Quercus havardii	Fagaceae	QUEHAV	QUHA3	Х	Х		Х	Yes
2	Shrub	soaptree yucca	Yucca elata	Agavaceae	YUCELA	YUEL				Х	No
		soapweed		<u> </u>		_					-
2	Shrub	yucca	Yucca glauca	Agavaceae	YUCGLA	YUGL	Χ	Х	Χ	Х	No
2	Shrub	southwestern	Lorandersonia	Asteraceae	LORPUL	CHPU4				Х	Yes

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		rabbitbrush	pulchella								
2	Shrub	tarbush	Flourensia cernua	Asteraceae	FLOCER	FLCE				Х	No
2	Shrub	Torrey's jointfir	Ephedra torreyana	Ephedraceae	EPHTOR	EPTO				Х	No
2	Shrub	tree cholla	Cylindropuntia imbricata	Cactaceae	CYLIMB	OPIM	Х		Х	Х	No
2.5	Sub- shrub	broom snakeweed	Gutierrezia sarothrae	Asteraceae	GUTSAR	GUSA2	Х	Х	Х	Х	Yes
2.5	Sub- shrub	featherplume	Dalea formosa	Fabaceae	DALFOR	DAFO				Х	Yes
2.5	Sub- shrub	horse crippler	Echinocactus texensis	Cactaceae	ECHTEX	ECTE				Х	No
2.5	Sub- shrub	mariola	Parthenium incanum	Asteraceae	PARINC	PAIN2				Х	No
2.5	Sub- shrub	nipple cactus	Mammillaria spp.	Cactaceae	MAMMIL	MAMMI				Х	No
2.5	Sub- shrub	No boneset	Brickellia eupatorioides var. chlorolepis	Asteraceae	BRIEUPC	BREUC2				Х	Yes
2.5	Sub- shrub	plains pricklypear	Opuntia polyacantha	Cactaceae	OPUPOL	ОРРО	Х		Х	Х	No
2.5	Sub- shrub	pricklyleaf dogweed	Thymophylla acerosa	Asteraceae	THYACE	THAC				Х	No
2.5	Sub- shrub	spinystar	Escobaria vivipara var. vivipara	Cactaceae	ESCVIVV	ESVIV				Х	No
2.5	Sub- shrub	tulip pricklypear	Opuntia phaeacantha	Cactaceae	OPUPHA	ОРРН	Х			Х	No
2.5	Sub- shrub	white ratany	Krameria grayi	Krameriaceae	KRAGRA	KRGR				Х	No
3	Grass	Arizona cottontop	Digitaria californica	Poaceae	DIGCAL	DICA8				Х	Yes
3	Grass	black grama	Bouteloua eriopoda	Poaceae	BOUERI	BOER4			Χ	Χ	Yes
3	Grass	blue grama	Bouteloua gracilis	Poaceae	BOUGRA	BOGR2			Χ	Χ	Yes
3	Grass	bottlebrush squirreltail	Elymus elymoides	Poaceae	ELYELY	ELEL5			Х	Х	No
3	Grass	bristly wolfstail	Lycurus setosus	Poaceae	LYCSET	LYSE3		Χ		Х	Yes
3	Grass	buffalograss	Buchloe dactyloides	Poaceae	BUCDAC	BUDA			Χ	X	Yes

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
			Scleropogon								
3	Grass	burrograss	brevifolius	Poaceae	SCLBRE	SCBR2				Х	Yes
3	Grass	bush muhly	Muhlenbergia porteri	Poaceae	MUHPOR	MUPO2			Χ	Χ	Yes
3	Grass	Carolina crabgrass	Digitaria pubiflora	Poaceae	DIGPUB	DIPU9	X	Х		Х	Yes
3	Grass	chufa flatsedge	Cyperus esculentus	Cyperaceae	CYPESC	CYES				X	No
		common	, ,								-
3	Grass	wolfstail	Lycurus phleoides	Poaceae	LYCPHL	LYPH				X	No
3	Grass	creeping muhly	Muhlenbergia repens	Poaceae	MUHREP	MURE				Χ	No
3	Grass	fluffgrass	Dasyochloa pulchella	Poaceae	DASPUL	DAPU7				Χ	Yes
3	Grass	fringed signalgrass	Urochloa ciliatissima	Poaceae	UROCIL	URCI				Х	Yes
3	Grass	giant dropseed	Sporobolus giganteus	Poaceae	SPOGIG	SPGI				Х	No
3	Grass	gummy lovegrass	Eragrostis curtipedicellata	Poaceae	ERACUR	ERCU		Х	Х	Х	Yes
3	Grass	hairy grama	Bouteloua hirsuta	Poaceae	BOUHIR	BOHI2	Х	Х		Х	Yes
3	Grass	Hall's panicgrass	Panicum hallii	Poaceae	PANHAL	PAHA		, ,	Х	- 7.	Yes
3	Giass	hooded windmill	Famcum naiii	ruaceae	PAINITAL	FALIA			^		162
3	Grass	grass	Chloris cucullata	Poaceae	CHLCUC	CHCU2			Χ	Χ	Yes
3	Grass	johnsongrass	Sorghum halepense	Poaceae	SORHAL	SOHA			Χ		Yes
3	Grass	Lehmann's lovegrass	Eragrostis lehmanniana	Poaceae	ERALEH	ERLE				Х	Yes
3	Grass	little bluestem	Schizachyrium scoparium	Poaceae	SCHSCO	SCSC	Х	Х		Х	Yes
3	Grass	mesa dropseed	Sporobolus flexuosus	Poaceae	SPOFLE	SPFL2			Х	Х	No
3	Grass	needle-and- thread grass	Hesperostipa comata	Poaceae	HESCOMC	HECOC8		Х		X	Yes
	Olass	New Mexico	Hesperostipa	1 oaceae	TIEGOONIO	TILOGOO					103
3	Grass	needlegrass	neomexicana	Poaceae	HESNEO	HENE5				X	No
3	Grass	No buffalograss	Munroa squarrosa	Poaceae	MUNSQU	MUSQ3	Х	Χ	Χ	Х	Yes
3	Grass	No Rhodes grass	Chloris crinita	Poaceae	CHLCRI	CHCR				Х	No
<u> </u>	Giass	oneflower	OHIOHS GHIIILA	1 Ualtat	CHLCKI	CHOR				_^	INU
3	Grass	flatsedge	Cyperus retroflexus	Cyperaceae	CYPRET	CYRE14	Х	Х		Х	Yes
3	Grass	poverty	Aristida divaricata	Poaceae	ARIDIV	ARDI5		Χ	Χ	Χ	Yes

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		threeawn									
3	Grass	purple threeawn	Aristida purpurea	Poaceae	ARIPUR	ARPU9	Χ	Χ	Х	Х	Yes
			Aristida purpurea var.								
3	Grass	purple threeawn	purpurea	Poaceae	ARIPURP	ARPUP6			Χ		Yes
3	Grass	red lovegrass	Eragrostis secundiflora	Poaceae	ERASEC	ERSE	Х	Х		Х	Yes
			Aristida purpurea var.								
3	Grass	red threeawn	longiseta	Poaceae	ARIPURL	ARPUL		Х	Х		Yes
3	Grass	ring muhly	Muhlenbergia torreyi	Poaceae	MUHTOR	MUTO2				Х	Yes
3	Grass	sand bluestem	Andropogon hallii	Poaceae	ANDHAL	ANHA	Χ	Χ		Х	Yes
3	Grass	sand dropseed	Sporobolus cryptandrus	Poaceae	SPOCRY	SPCR	Х	Х	Х	Х	No
3	Grass	sand lovegrass	Eragrostis trichodes	Poaceae	ERATRI	ERTR3				Χ	Yes
3	Grass	sand muhly	Muhlenbergia arenicola	Poaceae	MUHARE2	MUAR2			Х	Х	Yes
3	Grass	sandbur	Cenchrus spinifex	Poaceae	CENSPI	CESP4		Χ	Х	Х	Yes
3	Grass	sideoats grama	Bouteloua curtipendula	Poaceae	BOUCUR	BOCU	Х	Х		Х	Yes
3	Grass	silver beardgrass	Bothriochloa laguroides ssp. torreyana	Poaceae	BOTLAGT	BOLAT		Х		Х	Yes
3	Grass	sixweeks fescue	Vulpia octoflora	Poaceae	VULOCT	VUOC				Х	No
3	Grass	spike dropseed	Sporobolus contractus	Poaceae	SPOCON	SPCO4				Х	No
3	Grass	stinkgrass	Eragrostis cilianensis	Poaceae	ERACIL	ERCI			Х		Yes
3	Grass	streambed bristlegrass	Setaria leucopila	Poaceae	SETLEU	SELE6				Х	Yes
3	Grass	switchgrass	Panicum virgatum	Poaceae	PANVIR	PAVI2				Х	Yes
3	Grass	tobosa	Pleuraphis mutica	Poaceae	PLEMUT	PLMU3				Х	Yes
3	Grass	tumble lovegrass	Eragrostis sessilispica	Poaceae	ERASES	ERSE2	Х	Х		Х	Yes
3	Grass	tumble windmill grass	Chloris verticillata	Poaceae	CHLVER	CHVE2		Х	Х	Х	Yes
3	Grass	tumblegrass	Schedonnardus paniculatus	Poaceae	SCHPAN	SCPA			Х		Yes

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
3	Grass	vine mesquite	Panicum obtusum	Poaceae	PANOBT	PAOB			Χ	Х	Yes
3	Grass	weeping lovegrass western	Eragrostis curvula	Poaceae	ERACUR2	ERCU2				Х	Yes
3	Grass	wheatgrass	Pascopyrum smithii	Poaceae	PASSMI	PASM					No
3	Grass	yellow sand paspalum	Paspalum setaceum var. stramineum	Poaceae	PASSETS	PASES	Х	Х		Х	Yes
4	Forb	annual buckwheat	Eriogonum annuum	Polygonaceae	ERIANN	ERAN4	Х	Х	Х	Х	Yes
4	Forb	beardtongue	Penstemon spp.	Scrophulariaceae	PENSTE	PENST				Χ	Yes
4	Forb	bigbract verbena	Verbena bracteata	Verbenaceae	VERBRA	VEBR			Х		Yes
4	Forb	birdbill dayflower	Commelina dianthifolia	Commelinaceae	COMDIA	CODI4		Х			No
4	Forb	bristly nama	Nama hispidum	Hydrophyllaceae	NAMHIS	NAHI			Х	Х	Yes
4	Forb	broadleaf milkweed	Asclepias latifolia	Asclepiadaceae	ASCLAT	ASLA4				Х	No
4	Forb	broom groundsel	Senecio spartioides	Asteraceae	SENSPA	SESP3				Х	No
4	Forb	brownplume wirelettuce	Stephanomeria pauciflora	Asteraceae	STEPAU	STPA4			Х	Х	No
4	Forb	buffalobur nightshade	Solanum rostratum	Solanaceae	SOLROS	SORO			Х	Х	Yes
4	Forb	bush morningglory	Ipomoea leptophylla	Convolvulaceae	IPOLEP	IPLE				Х	No
4	Forb	camphorweed	Heterotheca subaxillaris	Asteraceae	HETSUB	HESU3	Х	Х	Х		Yes
4	Forb	Canadian horseweed	Conyza canadensis	Asteraceae	CONCAN	COCA5	X		Х		Yes
4	Forb	carelessweed	Amaranthus palmeri	Amaranthaceae	AMAPAL	AMPA			Х		Yes
4	Forb	Carruth's sagewort	Artemisia carruthii	Asteraceae	ARTCAR	ARCA14			Х	Х	Yes
_	F		Hymenopappus flavescens var.	A - 4		11)/51.0		\ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		V <sub>1</sub> =
4	Forb	collegeflower	canotomentosus	Asteraceae	HYMFLAC	HYFLC	X	Х	X	X	Yes
4	Forb	common	Portulaca oleracea	Portulacaceae	POROLE	POOL			Χ		No

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		purslane									
4	Forb	common sunflower	Helianthus annuus	Asteraceae	HELANN	HEAN3				Х	No
4	Forb	Cuman ragweed	Ambrosia psilostachya	Asteraceae	AMBPSI	AMPS	Х	Х	Х	Х	Yes
4	Forb	curlycup gumweed	Grindelia squarrosa	Asteraceae	GRISQU	GRSQ					Yes
4	Forb	David's spurge	Euphorbia davidii	Euphorbiaceae	EUPDAV	EUDA5		Χ			No
4	Forb	desert holly	Acourtia nana	Asteraceae	ACONAN	ACNA2				Χ	No
4	Forb	dotted gayfeather	Liatris punctata	Asteraceae	LIAPUN	LIPU	Х	Х			Yes
4	Forb	dwarf prairie clover	Dalea nana var. nana	Fabaceae	DALNANN	DANAN	Х	Х			Yes
4	Forb	eastern sensitive plant	Mimosa quadrivalvis var. occidentalis	Fabaceae	MIMQUAO	MIQUO				Х	Yes
4	Forb	Engelman's milkweed	Asclepias engelmanniana	Asclepiadaceae	ASCENG	ASEN		Х			Yes
4	Forb	Fendler's sandmat	Chamaesyce fendleri	Euphorbiaceae	CHAFEN	CHFE3	X	Х		Х	Yes
4	Forb	fetid marigold	Dyssodia papposa	Asteraceae	DYSPAP	DYPA			Х	Х	Yes
4	Forb	field sagewort	Artemisia campestris	Asteraceae	ARTCAM	ARCA12				Х	Yes
4	Forb	firewheel	Gaillardia pulchella	Asteraceae	GAIPUL	GAPU				Х	Yes
4	Forb	flatspine stickseed	Lappula occidentalis	Boraginaceae	LAPOCC	LAOC3				Х	No
4	Forb	gilia	Ipomopsis spp.	Polemoniaceae	IPOMOP	IPOMO2				Х	Yes
4	Forb	golden crownbeard	Verbesina encelioides	Asteraceae	VERENC	VEEN			Х		Yes
4	Forb	Gordon's bladderpod	Physaria gordonii	Brassicaceae	PHYGOR	LEGO				Х	No
4	Forb	grassland croton	Croton dioicus	Euphorbiaceae	CRODIO	CRDI6				Х	Yes
4	Forb	Gray's feverfew	Parthenium confertum var. lyratum	Asteraceae	PARCONL	PACOL			Х		No
4	Forb	green carpetweed	Mollugo verticillata	Molluginaceae	MOLVER	MOVE			Х		Yes

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		green comet			4.00) ((5)	4.0) (1			.,		
4	Forb	milkweed	Asclepias viridiflora	Asclepiadaceae	ASCVIR	ASVI			Х		Yes
4	Forb	gypsum scorpionweed	Phacelia integrifolia	Hydrophyllaceae	PHAINT	PHIN				Х	No
4	Forb	hairy goldenaster	Heterotheca villosa	Asteraceae	HETVIL	HEVI4	X	Х		Х	Yes
4	Forb	hairy pinweed	Lechea mucronata	Cistaceae	LECMUC	LEMU3	Х	Χ		Х	Yes
4	Forb	hiddenflower	Cryptantha crassisepala	Boraginaceae	CRYCRA	CRCR3				Х	No
4	Forb	hoary sandmat	Chamaesyce lata	Euphorbiaceae	CHALAT	CHLA10			Χ	Х	Yes
4	Forb	Hopi tea greenthread	Thelesperma megapotamicum	Asteraceae	THEMEG	THME	Х	Х		Х	Yes
4	Forb	horehound	Marrubium vulgare	Lamiaceae	MARVUL	MAVU				Х	No
4	Forb	James' catseye	Cryptantha cinerea var. cinerea	Boraginaceae	CRYCINC	CRCIC	Х	Х		Х	Yes
4	Forb	James' clammyweed	Polanisia jamesii	Capparaceae	POLJAM	POJA3					Yes
4	Forb	James' nailwort	Paronychia jamesii	Caryophyllaceae	PARJAM	PAJA	X	Χ		Х	Yes
4	Forb	James's hog- potato	Pomaria jamesii	Fabaceae	POMJAM	POJA5	Х	Х		Х	Yes
4	Forb	kiss me quick	Portulaca pilosa	Portulacaceae	PORPIL	POPI3			Х	Х	Yes
4	Forb	knotweed	Polygonum spp.	Polygonaceae	POLYGO	POLYG4				Х	No
4	Forb	lacy germander	Teucrium laciniatum	Lamiaceae	TEULAC	TELA			Χ	Х	Yes
4	Forb	lacy tansyaster	Xanthisma spinulosum	Asteraceae	XANSPI2	MAPI	Х	Х	X	Х	Yes
4	Forb	lanceleaf sage	Salvia reflexa	Lamiaceae	SALREF	SARE3				Х	Yes
4	Forb	largeflower fameflower	Phemeranthus calycinus	Portulacaceae	PHECAL	PHCA48	Х				Yes
4	Forb	larkspur	Delphinium spp.	Ranunculaceae	DELPHI	DELPH				Χ	No
4	Forb	leatherweed	Croton pottsii	Euphorbiaceae	CROPOT	CRPO5				X	No
4	Forb	little cryptantha	Cryptantha minima	Boraginaceae	CRYMIN	CRMI5				X	Yes
4	Forb	lyreleaf greeneyes	Berlandiera lyrata	Asteraceae	BERLYR	BELY			Х	Х	No
4	Forb	manyflowered gromwell	Lithospermum multiflorum	Boraginaceae	LITMUL	LIMU3	Х	Х	Х		Yes
4	Forb	matted bluet	Houstonia humifusa	Rubiaceae	HOUHUM	HOHU				Х	Yes

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
4	Forb	milkvetch	Astragalus spp.	Fabaceae	ASTRAG	ASTRA				Х	No
4	Forb	narrowleaf four o'clock	Mirabilis linearis	Nyctaginaceae	MIRLIN	MILI3	Х	Х		Х	Yes
4	Forb	pale bastard toadflax	Comandra umbellata ssp. pallida	Santalaceae	СОМИМВР	COUMP	Х	Х			Yes
4	Forb	phlox heliotrope	Heliotropium convolvulaceum	Boraginaceae	HELCON2	HECO5				Х	Yes
4	Forb	pitseed goosefoot	Chenopodium berlandieri	Chenopodiaceae	CHEBER	CHBE4					Yes
4	Forb	plains blackfoot	Melampodium leucanthum	Asteraceae	MELLEU	MELE2	Х	Х		Χ	Yes
4	Forb	plains dozedaisy	Aphanostephus ramosissimus	Asteraceae	APHRAM	APRA	Х	Х	Х	Χ	Yes
4	Forb	plains milkweed	Asclepias pumila	Asclepiadaceae	ASCPUM	ASPU	Х	Х			Yes
4	Forb	prairie coneflower	Echinacea angustifolia	Asteraceae	ECHANG	ECAN2				Χ	No
4	Forb	prairie sandmat	Chamaesyce missurica	Euphorbiaceae	CHAMIS	CHMI8	Х				Yes
4	Forb	prairie sunflower	Helianthus petiolaris ssp. petiolaris	Asteraceae	HELPETP	HEPEP			Х	Χ	Yes
4	Forb	prickly Russian thistle	Salsola tragus	Chenopodiaceae	SALTRA	SATR12			Х		Yes
4	Forb	purple prairieclover	Dalea purpurea	Fabaceae	DALPUR	DAPU5	Х	Х		X	Yes
4	Forb	queen's-delight	Stillingia sylvatica	Euphorbiaceae	STISYL	STSY				X	Yes
4	Forb	ribseed sandmat	Chamaesyce glyptosperma	Euphorbiaceae	CHAGLY	CHGL13	Х	Х	Х	Χ	Yes
4	Forb	Rocky Mountain zinnia	Zinnia grandiflora	Asteraceae	ZINGRA	ZIGR			Х	Χ	Yes
4	Forb	rose heath	Chaetopappa ericoides	Asteraceae	CHAERI	CHER2		Х	Х	Χ	No
4	Forb	rosy palafox	Palafoxia rosea	Asteraceae	PALROS	PARO				Χ	Yes
4	Forb	rushpea	Hoffmannseggia spp.	Fabaceae	HOFFMA	HOFFM				Х	No
4	Forb	sand palafoxia	Palafoxia sphacelata	Asteraceae	PALSPH	PASP	Х	Х	Х	Χ	Yes
4	Forb	sandhill goosefoot	Chenopodium cycloides	Chenopodiaceae	CHECYC	CHCY	Х	Х			Yes

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		scarlet									
4	Forb	beeblossom	Gaura coccinea	Onagraceae	GAUCOC	GACO5			Χ	Х	Yes
		scarlet	Sphaeralcea								
4	Forb	globemallow	coccinea	Malvaceae	SPHCOC	SPCO			Χ	Х	No
		silky prairie	Dalea villosa var.								
4	Forb	clover	villosa	Fabaceae	DALVILV	DAVIV					Yes
		silver dwarf									
4	Forb	morningglory	Evolvulus sericeus	Convolvulaceae	EVOSER	EVSE	Χ	Χ		Х	Yes
		silverleaf	Solanum								
4	Forb	nightshade	elaeagnifolium	Solanaceae	SOLELA	SOEL			Χ	Χ	No
		slender									
4	Forb	snakecotton	Froelichia gracilis	Amaranthaceae	FROGRA	FRGR3	Χ	Χ		Х	Yes
		slimflower	Psoralidium								
4	Forb	scurfpea	tenuiflorum	Fabaceae	PSOTEN	PSTE5	Χ				Yes
		smallflower	Physalis cinerascens								
4	Forb	groundcherry	var. cinerascens	Solanaceae	PHYCINC	PHCIC3			Χ	Х	Yes
		smooth four									
4	Forb	o'clock	Mirabilis glabra	Nyctaginaceae	MIRGLA	MIGL3				Х	Yes
			Dimorphocarpa								
4	Forb	spectacle pod	wislizeni	Brassicaceae	DIMWIS	DIWI2	Χ	Χ		Х	Yes
		spotted									
4	Forb	beebalm	Monarda punctata	Lamiaceae	MONPUN	MOPU				Χ	Yes
		spreading									
4	Forb	pygmyleaf	Loeflingia squarrosa	Caryophyllaceae	LOESQU	LOSQ	Χ				Yes
		stemless									
4	Forb	townsendia	Townsendia exscapa	Asteraceae	TOWEXS	TOEX2					Yes
			Linum rigidum var.								
4	Forb	stiffstem flax	rigidum	Linaceae	LINRIGR	LIRIR	X	Χ		Х	Yes
			Machaeranthera								
4	Forb	tanseyleaf aster	tanacetifolia	Asteraceae	MACTAN	MATA2			Χ		Yes
			Artemisia								
4	Forb	tarragon	dracunculus	Asteraceae	ARTDRA	ARDR4					Yes
4	Forb	Texas croton	Croton texensis	Euphorbiaceae	CROTEX	CRTE4		Χ		Х	Yes
		Texas	Xanthisma texanum								
4	Forb	sleepydaisy	ssp. drummondii	Asteraceae	XANTEXD	XATED2	Χ	Χ	Χ	Х	Yes
4	Forb	threadleaf	Senecio flaccidus var.	Asteraceae	SENFLAF	SEFLF		<u></u>	<u></u>	Х	No

Life Form Code	Life form	Common Name	Scientific Name	Family	NHNM Acronym	PLANTS Symbol	GR	GY	МТ	Мар	Collected
		ragwort	flaccidus								
4	Forb	trailing krameria	Krameria lanceolata	Krameriaceae	KRALAN	KRLA	Χ			Х	Yes
4	Forb	twinleaf senna	Senna bauhinioides	Fabaceae	SENBAU	SEBA3				Х	No
4	Forb	twoleaf wild sensitive plant	Senna roemeriana	Fabaceae	SENROE	SERO8				Х	Yes
4	Forb	upright prairie coneflower	Ratibida columnifera	Asteraceae	RATCOL	RACO3			Х		Yes
4	Forb	velvetweed	Gaura mollis	Onagraceae	GAUMOL	GAMO5			Χ	Х	Yes
4	Forb	vervain	Glandularia spp.	Verbenaceae	GLANDU	GLAND				Х	No
4	Forb	wavyleaf thistle	Cirsium undulatum	Asteraceae	CIRUND	CIUN			Χ	Х	Yes
4	Forb	western daisy fleabane	Erigeron bellidiastrum var. bellidiastrum	Asteraceae	ERIBELB	ERBEB	Х	Х		Х	Yes
4	Forb	white milkwort	Polygala alba	Polygalaceae	POLALB	POAL4				Х	No
4	Forb	white sagebrush	Artemisia ludoviciana	Asteraceae	ARTLUD	ARLU				Х	No
4	Forb	whitemouth dayflower	Commelina erecta	Commelinaceae	COMERE	COER	Х	Х	Х	Х	Yes
4	Forb	whitestem blazingstar	Mentzelia albicaulis	Loasaceae	MENALB	MEAL6				Х	No
4	Forb	winged buckwheat	Eriogonum alatum	Polygonaceae	ERIALA	ERAL4				Х	Yes
4	Forb	winged pigweed	Cycloloma atriplicifolium	Chenopodiaceae	CYCATR	CYAT	Х	Х			Yes
4	Forb	wolly gaura	Gaura villosa	Onagraceae	GAUVIL	GAVI2	Х	Χ			Yes
4	Forb	woolly milkvetch	Astragalus mollissimus	Fabaceae	ASTMOL	ASMO7	Х				Yes
4	Forb	woolly paperflower	Psilostrophe tagetina	Asteraceae	PSITAG	PSTA	Х	Х		Х	Yes
4	Forb	woolly plantain	Plantago patagonica	Plantaginaceae	PLAPAT	PLPA2		Χ		Х	No
4	Forb	woolly prairieclover	Dalea lanata	Fabaceae	DALLAN	DALA3				Х	No
4	Forb	Wright's plantain	Plantago wrightiana	Plantaginaceae	PLAWRI4	PLWR	Х		Х		Yes
4	Forb	yellow sundrops	Calylophus serrulatus	Onagraceae	CALSER	CASE12	Х	Χ		Х	Yes

# Appendix D. NRCS Nontechnical Descriptions of Soil Map Units on the Parkinson Ranch, New Mexico

Map unit: Aa - Amarillo loamy fine sand, 0 to 3 percent slopes

Text kind/Category: Nontechnical description/SOI

Amarillo soils make up 85 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderately slow. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 10 percent. The assigned Kw erodibility factor is .15. It is irrigated land capability subclass 3e. It is nonirrigated land capability subclass 4e. This component is not a hydric soil.

Typical Profile:

A - 0 to 10 inches; loamy fine sand; neutral.

Bt - 10 to 51 inches; sandy clay loam; moderately alkaline.

Btk - 51 to 60 inches; clay loam; moderately alkaline.

Map unit: Ab - Amarillo fine sandy loam, 0 to 1 percent slopes

Text kind/Category: Nontechnical description/SOI

Amarillo soils make up 85 percent of the map unit. The runoff class is negligible. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderately slow. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 10 percent. The assigned Kw erodibility factor is .24. It is irrigated land capability subclass 2e. It is nonirrigated land capability subclass 3e. This component is not a hydric soil.

Typical Profile:

A - 0 to 9 inches; fine sandy loam; neutral.

Bt - 9 to 43 inches; sandy clay loam; moderately alkaline.

Btk - 43 to 60 inches; clay loam; moderately alkaline.

Map unit: Af - Amarillo and Clovis soils, 0 to 3 percent slopes, severely eroded

Text kind/Category: Nontechnical description/SOI

Clovis soils make up 60 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 60 percent. The assigned Kw erodibility factor is .15. It is irrigated land capability subclass 3e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

### Typical Profile:

A - 0 to 4 inches; loamy fine sand; neutral.

Bt - 4 to 19 inches; sandy clay loam; slightly alkaline.

Bk - 19 to 60 inches; fine sandy loam; moderately alkaline.

Amarillo soils make up 40 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is high, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 10 percent. The assigned Kw erodibility factor is .15. It is irrigated land capability subclass 3e. It is nonirrigated land capability subclass 4e. This component is not a hydric soil.

## Typical Profile:

A - 0 to 4 inches; loamy fine sand; neutral.

Bt - 4 to 52 inches; sandy clay loam; moderately alkaline.

Map unit: Ag - Arch loamy fine sand

Text kind/Category: Nontechnical description/SOI

Arch soils make up 85 percent of the map unit. The runoff class is negligible. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is moderate. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 60 percent. The assigned Kw erodibility factor is .10. It is irrigated land capability subclass 4e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

### Typical Profile:

A - 0 to 8 inches; loamy fine sand; strongly alkaline.

Bk1 - 8 to 18 inches; loam; strongly alkaline.

Bk2 - 18 to 60 inches; loam; strongly alkaline.

Map unit: Ah - Arch fine sandy loam

Text kind/Category: Nontechnical description/SOI

Arch soils make up 85 percent of the map unit. The runoff class is negligible. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is moderate. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 60 percent. The assigned Kw erodibility factor is .17. It is irrigated land capability subclass 3e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

Typical Profile:

A - 0 to 6 inches; fine sandy loam; strongly alkaline. Bk1 - 6 to 18 inches; loam; strongly alkaline. Bk2 - 18 to 60 inches; loam; strongly alkaline.

Map unit: Ak - Arch loam

Text kind/Category: Nontechnical description/SOI

Arch soils make up 85 percent of the map unit. The runoff class is negligible. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is moderate. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 60 percent. The assigned Kw erodibility factor is .24. It is irrigated land capability subclass 3e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

### Typical Profile:

A - 0 to 6 inches; loam; strongly alkaline. Bk1 - 6 to 14 inches; loam; strongly alkaline. Bk2 - 14 to 60 inches; loam; strongly alkaline.

Map unit: Am - Arch soils, severely eroded

Text kind/Category: Nontechnical description/SOI

Arch soils make up 45 percent of the map unit. The runoff class is negligible. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is moderate. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 60 percent. The assigned Kw erodibility factor is .10. It is irrigated land capability subclass 4e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

#### Typical Profile:

A - 0 to 8 inches; loamy fine sand; strongly alkaline.

Bk - 8 to 60 inches; loam; strongly alkaline.

Arch soils make up 40 percent of the map unit. The runoff class is negligible. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is moderate. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 40 percent. The assigned Kw erodibility factor is .15. It is irrigated land capability subclass 3e. It is nonirrigated land capability subclass 4e. This component is not a hydric soil.

#### Typical Profile:

A - 0 to 8 inches; fine sandy loam; strongly alkaline.

Bk - 8 to 60 inches; loam; strongly alkaline.

Map unit: An - Arvana loamy fine sand, 0 to 3 percent slopes

Text kind/Category: Nontechnical description/SOI

Arvana soils make up 100 percent of the map unit. The runoff class is low. The depth to a restrictive feature is 20 to 40 inches to a petrocalcic. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is low, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 95 percent. The assigned Kw erodibility factor is .15. It is irrigated land capability subclass 6e. It is nonirrigated land capability subclass 6s. This component is not a hydric soil.

Typical Profile:

A - 0 to 10 inches; loamy fine sand; neutral.

Bt - 10 to 26 inches; sandy clay loam; moderately alkaline.

Bkm - 26 to 36 inches; cemented material.

Map unit: Ar - Arvana fine sandy loam, 1 to 3 percent slopes

Text kind/Category: Nontechnical description/SOI

Arvana soils make up 85 percent of the map unit. The runoff class is low. The depth to a restrictive feature is 20 to 40 inches to a petrocalcic. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is low, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 95 percent. The assigned Kw erodibility factor is .24. It is irrigated land capability subclass 3e. It is nonirrigated land capability subclass 6s. This component is not a hydric soil.

Typical Profile:

A - 0 to 7 inches; fine sandy loam; slightly alkaline. Bt - 7 to 25 inches; sandy clay loam; moderately alkaline. Bkm - 25 to 35 inches; cemented material.

Map unit: Av - Arvana soils, 0 to 3 percent slopes, severely eroded

Text kind/Category: Nontechnical description/SOI

Arvana soils make up 45 percent of the map unit. The runoff class is low. The depth to a restrictive feature is 20 to 40 inches to a petrocalcic. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is very low, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 95 percent. The assigned Kw erodibility factor is .15. It is nonirrigated land capability subclass 6s. This component is not a hydric soil.

Typical Profile:

A - 0 to 3 inches; loamy fine sand; neutral.

Bt - 3 to 15 inches; sandy clay loam; moderately alkaline.

#### Bkm - 15 to 25 inches; cemented material.

Arvana soils make up 40 percent of the map unit. The runoff class is low. The depth to a restrictive feature is 20 to 40 inches to a petrocalcic. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is very low, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 95 percent. The assigned Kw erodibility factor is .24. It is nonirrigated land capability subclass 6s. This component is not a hydric soil.

Typical Profile:

A - 0 to 3 inches; fine sandy loam; slightly alkaline. Bt - 3 to 15 inches; sandy clay loam; moderately alkaline.

Bkm - 15 to 25 inches; cemented material.

Map unit: Be - Brownfield fine sand

Text kind/Category: Nontechnical description/SOI

Brownfield soils make up 85 percent of the map unit. The runoff class is very low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 20 percent. The assigned Kw erodibility factor is .15. It is irrigated land capability subclass 4e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

Typical Profile:

A - 0 to 21 inches; fine sand; neutral.

Bt - 21 to 60 inches; sandy clay loam; neutral.

Map unit: Bf - Brownfield soils, severely eroded

Text kind/Category: Nontechnical description/SOI

Brownfield soils make up 60 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is high, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 5 percent. The assigned Kw erodibility factor is .28. It is nonirrigated land capability subclass 7e. This component is not a hydric soil.

Typical Profile:

A - 0 to 10 inches: sandy clay loam: neutral.

Bt1 - 10 to 60 inches; sandy clay loam; slightly alkaline.

Bt2 - 60 to 80 inches; clay loam; moderately alkaline.

Brownfield soils make up 40 percent of the map unit. The runoff class is very low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to

a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 5 percent. The assigned Kw erodibility factor is .15. It is irrigated land capability subclass 4e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

Typical Profile:

A - 0 to 30 inches; fine sand; neutral.

Bt - 30 to 60 inches; sandy clay loam; neutral.

Map unit: Cc - Clovis loamy fine sand, 0 to 3 percent slopes

Text kind/Category: Nontechnical description/SOI

Clovis soils make up 85 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 60 percent. The assigned Kw erodibility factor is .15. It is irrigated land capability subclass 4e. It is nonirrigated land capability subclass 4e. This component is not a hydric soil.

Typical Profile:

A - 0 to 8 inches; loamy fine sand; neutral.

Bt - 8 to 28 inches; sandy clay loam; slightly alkaline.

Bk - 28 to 60 inches; loam; moderately alkaline.

Map unit: Cd - Clovis fine sandy loam, 0 to 1 percent slopes

Text kind/Category: Nontechnical description/SOI

Clovis soils make up 85 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 60 percent. The assigned Kw erodibility factor is .24. It is irrigated land capability subclass 2e. It is nonirrigated land capability subclass 3e. This component is not a hydric soil.

Typical Profile:

A - 0 to 7 inches; fine sandy loam; moderately alkaline.

Bt - 7 to 31 inches; sandy clay loam; slightly alkaline.

Bk - 31 to 60 inches; loam; moderately alkaline.

Map unit: Dr - Drake soils

Text kind/Category: Nontechnical description/SOI

Drake soils make up 60 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is low, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 40 percent. The assigned Kw erodibility factor is .37. It is irrigated land capability subclass 4e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

Typical Profile:

A - 0 to 8 inches; loam; moderately alkaline. Bk - 8 to 60 inches; loam; moderately alkaline.

Drake soils make up 35 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is low, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 40 percent. The assigned Kw erodibility factor is .24. It is irrigated land capability subclass 4e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

Typical Profile:

A - 0 to 8 inches; fine sandy loam; moderately alkaline.

Map unit: Go - Gomez loamy fine sand

Text kind/Category: Nontechnical description/SOI

Gomez soils make up 100 percent of the map unit. The runoff class is very low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderately rapid. Available water capacity to a depth of 60 inches is low, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 40 percent. The assigned Kw erodibility factor is .17. It is irrigated land capability subclass 4e. It is nonirrigated land capability subclass 6e. This component is not a hydric soil.

Typical Profile:

A - 0 to 12 inches; loamy fine sand; moderately alkaline. Bk - 12 to 22 inches; fine sandy loam; moderately alkaline. C - 22 to 60 inches: loam; moderately alkaline.

C - 22 to oo inches, loani, moderately alkaline.

Map unit: Mc - Mansker and Portales fine sandy loams, 1 to 3 percent slopes

Text kind/Category: Nontechnical description/SOI

Mansker soils make up 60 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 65 percent. The assigned Kw erodibility factor is .24. It is irrigated land capability subclass 4e.

This component is not a hydric soil.

### Typical Profile:

A1 - 0 to 5 inches; fine sandy loam; moderately alkaline.

A2 - 5 to 14 inches; clay loam; moderately alkaline.

Btk - 14 to 60 inches; sandy clay loam; moderately alkaline.

Portales soils make up 30 percent of the map unit. The runoff class is low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is high, and shrink swell potential is moderate. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 40 percent. The assigned Kw erodibility factor is .24. It is irrigated land capability subclass 3e. It is nonirrigated land capability subclass 4e. This component is not a hydric soil.

#### Typical Profile:

A - 0 to 5 inches; fine sandy loam; moderately alkaline.

Bk - 5 to 60 inches; loam; moderately alkaline.

Map unit: Pa - Portales fine sandy loam, 0 to 1 percent slopes

Text kind/Category: Nontechnical description/SOI

Portales soils make up 85 percent of the map unit. The runoff class is negligible. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is high, and shrink swell potential is moderate. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 40 percent. The assigned Kw erodibility factor is .24. It is irrigated land capability subclass 2e. It is nonirrigated land capability subclass 4e. This component is not a hydric soil.

### Typical Profile:

A - 0 to 6 inches; fine sandy loam; moderately alkaline.

Bk - 6 to 60 inches; sandy clay loam; moderately alkaline.

Map unit: Sf - Springer loamy fine sand

Text kind/Category: Nontechnical description/SOI

Springer soils make up 85 percent of the map unit. The runoff class is very low. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderately rapid. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The assigned Kw erodibility factor is .17. It is irrigated land capability subclass 3e. It is nonirrigated land capability subclass 4e. This component is not a hydric soil.

#### Typical Profile:

A - 0 to 14 inches: loamy fine sand: neutral.

Bt - 14 to 49 inches; fine sandy loam; slightly alkaline.

EB - 49 to 60 inches; loamy fine sand; slightly alkaline.

Map unit: Zf - Zita fine sandy loam, 0 to 1 percent slopes

Text kind/Category: Nontechnical description/SOI

Zita soils make up 85 percent of the map unit. The runoff class is negligible. The depth to a restrictive feature is greater than 60 inches. This soil is well drained. The slowest soil permeability within a depth of 60 inches is moderate. Available water capacity to a depth of 60 inches is moderate, and shrink swell potential is low. Annual flooding is none, and annual ponding is none. The minimum depth to a water table is greater than 6 feet. The maximum calcium carbonate equivalent within a depth of 40 inches is 70 percent. The assigned Kw erodibility factor is .24. It is irrigated land capability subclass 2e. It is nonirrigated land capability subclass 3e. This soil is prime farmland if irrigated. This component is not a hydric soil.

### Typical Profile:

A - 0 to 6 inches; fine sandy loam; moderately alkaline. Bw - 6 to 20 inches; sandy clay loam; moderately alkaline. Bk - 20 to 60 inches; sandy clay loam; moderately alkaline.

## Appendix E. NRCS Soil Taxonomic Classification for the Parkinson Ranch, New Mexico

### Soil name Family or higher taxonomic classification

Amarillo Fine-loamy, mixed, superactive, thermic Aridic Paleustalfs

Arch Fine-loamy, carbonatic, thermic Aridic Calciustepts

Arvana Fine-loamy, mixed, superactive, thermic Petrocalcic Paleustalfs
Brownfield Loamy, mixed, superactive, thermic Arenic Aridic Paleustalfs
Clovis Fine-loamy, mixed, superactive, mesic Ustic Calciargids
Drake Fine-loamy, mixed, superactive, thermic Aridic Calciustepts
Gomez Coarse-loamy, mixed, active, thermic Aridic Calciustepts
Mansker Fine-loamy, carbonatic, thermic Calcidic Paleustolls

Playa Fine, mixed, mesic Aquic Camborthids

Portales Fine-loamy, mixed, superactive, thermic Aridic Calciustolls
Springer Coarse-loamy, mixed, superactive, thermic Typic Paleustalfs
Zita Fine-loamy, mixed, superactive, thermic Aridic Haplustolls

# Appendix F. NRCS Soil Component Legend for the Parkinson Ranch, New Mexico

Map unit symbol and name	map unit	Component name	Component kind	Low	RV	High
Aa: Amarillo loamy fine sand, 0 to 3				20		9
percent slopes	85	Amarillo	Series	0	2	3
	1	Playa	Miscellaneous	0	1	1
Ab: Amarillo fine sandy loam, 0 to 1 percent slopes	85	Amarillo	Series	0	0.5	1
Af: Amarillo and Clovis soils, 0 to 3 percent slopes, severely eroded	33	, and the	Conico	v	0.0	·
,	60	Clovis	Series	0	2	3
	40	Amarillo	Series	0	2	3
Ag: Arch loamy fine sand						
,	85	Arch	Series	0	0.5	1
	1	Playa	Miscellaneous	0	1	1
Ah: Arch fine sandy loam						
•	85	Arch	Series	0	0.5	1
	1	Playa	Miscellaneous	0	1	1
Ak: Arch loam						
	85	Arch	Series	0	0.5	1
	1	Playa	Miscellaneous	0	1	1

Map unit symbol and name	map unit	Component name	Component kind	Low	RV	High
Am:						Ū
Arch soils, severely eroded	45	Arch	Series	0	0.5	1
	40	Arch	Series	0	0.5	1
An:						
Arvana loamy fine sand, 0 to 3 percent slopes						
	100	Arvana	Series	0	2	3
	1	Playa	Miscellaneous	0	1	1
Ar: Arvana fine sandy loam, 1 to 3						
percent slopes	85	Arvana	Series	1	2	3
	1	Playa	Miscellaneous	0	1	1
Av:						
Arvana soils, 0 to 3 percent slopes, severely eroded						
	45	Arvana	Series	0	2	3
	40	Arvana	Series	0	2	3
	1	Playa	Miscellaneous	0	1	1
Be:						
Brownfield fine sand	85	Brownfield	Series	0	2	3
Bf:						
Brownfield soils, severely eroded	60	Brownfield	Series	0	2	3
	40	Brownfield	Series	0	2	3

Map unit symbol and name	map unit	Component name	Component kind	Low	RV	High
Cc: Clovis loamy fine sand, 0 to 3 percent						
slopes	85	Clovis	Series	0	2	3
	1	Playa	Miscellaneous	0	1	1
Cd: Clovis fine sandy loam, 0 to 1 percent slopes						
•	85	Clovis	Series	0	0.5	1
Dr: Drake soils	60	Drake	Series	1	3	5
	35	Drake	Series	1	3	5
	1	Playa	Miscellaneous	0	1	1
Go: Gomez loamy fine sand	100	Gomez	Series	0	2	3
Go: Gomez loamy fine sand	1	Playa	Miscellaneous	0	1	1
Mc: Mansker and Portales fine sandy loams, 1 to 3 percent slopes						
iodino, i to o porocin diopeo	60	Mansker	Series	1	2	3
	30	Portales	Series	1	2	3
	1	Playa	Miscellaneous	0	1	1
Pa: Portales fine sandy loam, 0 to 1 percent slopes						
F3.33 310P30	85	Portales	Series	0	0.5	1
	1	Playa	Miscellaneous	0	1	1

Map unit symbol and name	e map unit	Component name	Component kind			
				Low	RV	High
Sf: Springer loamy fine sand						
op.m.gov.cam, m.c.cama	85	Springer	Series	0	3	5
	1	Playa	Miscellaneous	0	1	1
Zf: Zita fine sandy loam, 0 to 1 percenslopes	t					
olopoo	85	Zita	Series	0	0.5	1

# Appendix G. NRCS Rangeland Productivity of Soils on the Parkinson Ranch, New Mexico

	Ecological site	Total	dry-weight pro	oduction		
Map symbol and soil name		Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
Aa:						
Amarillo	SANDY PLAINS	2800	2000	1200	Little bluestem	30
					Sideoats grama	15
					Other perennial grasses	10
					Other shrubs	10
					Blue grama	5
					Hairy grama	5
					Other perennial forbs	5
					Plains bristlegrass	5
					Sand bluestem	5
					Sand dropseed	5
					Sand lovegrass	5
Aa:						
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	10
					Vine mesquite	10
					Other shrubs	5
					Switchgrass	5
Ab:						

Map symbol and soil name		Total	dry-weight pro	oduction			
	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition	
		Lb/a	Lb/a	Lb/a		Percent	
Amarillo	SANDY	2800	2100	1400	Blue grama	30	
					Sideoats grama	15	
					Arizona cottontop	10	
					Buffalograss	10	
					Little bluestem	5	
					Other annual forbs	5	
					Other perennial forbs	5	
					Other perennial grasses	5	
					Other shrubs	5	
					Plains bristlegrass	5	
					Sand dropseed	5	
Af:							
Clovis	SANDY PLAINS	2400		1100	Little bluestem	15	
					Other perennial grasses	15	
					Sideoats grama	15	
					Other perennial forbs	10	
					Sand bluestem	10	
					Sand dropseed	10	
					Blue grama	5	
					Other shrubs	5	
					Plains bristlegrass	5	
					Plains lovegrass	5	
					Sand sagebrush	5	
Af:							
Amarillo	SANDY PLAINS	2800	2000	1200	Little bluestem	30	
					Sideoats grama	15	
					Other perennial grasses	10	

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
					Other shrubs	10
					Blue grama	5
					Hairy grama	5
					Other perennial forbs	5
					Plains bristlegrass	5
					Sand bluestem	5
					Sand dropseed	5
					Sand lovegrass	5
Ag:						
Arch	LOAMY SAND	2800		1500	Dropseed	20
					Sand bluestem	20
					Little bluestem	15
					Other perennial forbs	15
					Other perennial grasses	10
					Black grama	5
					Other shrubs	5
					Sideoats grama	5
Ag:						
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	10
					Vine mesquite	10
					Other shrubs	5
					Switchgrass	5

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
Ah:						
Arch	HIGH LIME	1150		500	Other perennial grasses	20
					Sideoats grama	20
					Black grama	10
					Blue grama	10
					Other perennial forbs	10
					Other shrubs	10
					Fourwing saltbush	5
					Hairy grama	5
					Little bluestem	5
					Winterfat	5
Ah:						
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	10
					Vine mesquite	10
					Other shrubs	5
					Switchgrass	5
Ak:						
Arch	HIGH LIME	1150		500	Other perennial grasses	20
					Sideoats grama	20
					Black grama	10
					Blue grama	10
					Other perennial forbs	10

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
					Other shrubs	10
					Fourwing saltbush	5
					Hairy grama	5
					Little bluestem	5
					Winterfat	5
Ak:						
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	10
					Vine mesquite	10
					Other shrubs	5
					Switchgrass	5
Am:						
Arch	LOAMY SAND	2800		1500	Dropseed	20
					Sand bluestem	20
					Little bluestem	15
					Other perennial forbs	15
					Other perennial grasses	10
					Black grama	5
					Other shrubs	5
					Sideoats grama	5
Am:						
Arch	HIGH LIME	1150		500	Other perennial grasses	20
					Sideoats grama	20

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Favorable year Normal year Unfavorable year		Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
					Black grama	10
					Blue grama	10
					Other perennial forbs	10
					Other shrubs	10
					Fourwing saltbush	5
					Hairy grama	5
					Little bluestem	5
					Winterfat	5
An:						
Arvana	SANDY PLAINS	2700	2000	1200	Little bluestem	30
					Sideoats grama	15
					Other perennial grasses	10
					Other shrubs	10
					Blue grama	5
					Hairy grama	5
					Other annual forbs	5
					Other perennial forbs	5
					Plains bristlegrass	5
					Sand bluestem	5
					Sand dropseed	5
An:						
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	10

		Total	dry-weight pro	oduction			
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition	
		Lb/a	Lb/a	Lb/a		Percent	
					Vine mesquite	10	
					Other shrubs	5	
					Switchgrass	5	
Ar:							
Arvana	SANDY	2700	2000	1300	Blue grama	30	
					Sideoats grama	15	
					Arizona cottontop	10	
					Buffalograss	10	
					Little bluestem	5	
					Other annual forbs	5	
					Other perennial forbs	5	
					Other perennial grasses	5	
					Other shrubs	5	
					Plains bristlegrass	5	
					Sand dropseed	5	
Ar:							
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20	
					Blue grama	15	
					Other perennial grasses	15	
					Other perennial forbs	10	
					Pleuraphis jamesii	10	
					Sideoats grama	10	
					Vine mesquite	10	
					Other shrubs	5	
					Switchgrass	5	
Av:							
Arvana	SANDY PLAINS	2700	2000	1200	Little bluestem	30	

		Total	dry-weight pro	oduction			
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition	
		Lb/a	Lb/a	Lb/a		Percent	
					Sideoats grama	15	
					Other perennial grasses	10	
					Other shrubs	10	
					Blue grama	5	
					Hairy grama	5	
					Other annual forbs	5	
					Other perennial forbs	5	
					Plains bristlegrass	5	
					Sand bluestem	5	
					Sand dropseed	5	
Av:							
Arvana	SANDY	2700	2000	1300	Blue grama	30	
					Sideoats grama	15	
					Arizona cottontop	10	
					Buffalograss	10	
					Little bluestem	5	
					Other annual forbs	5	
					Other perennial forbs	5	
					Other perennial grasses	5	
					Other shrubs	5	
					Plains bristlegrass	5	
					Sand dropseed	5	
Av:							
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20	
					Blue grama	15	
					Other perennial grasses	15	
					Other perennial forbs	10	

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
					Pleuraphis jamesii	10
					Sideoats grama	10
					Vine mesquite	10
					Other shrubs	5
					Switchgrass	5
Be:						
Brownfield	LOAMY SAND	3200	2200	1200	Sand bluestem	20
					Giant dropseed	10
					Little bluestem	10
					Other shrubs	10
					Annual grasses	5
					Cane bluestem	5
					Fall witchgrass	5
					Hairy grama	5
					Other perennial forbs	5
					Other perennial grasses	5
					Sand dropseed	5
					Sand lovegrass	5
					Silver bluestem	5
					Yellow Indiangrass	5
Bf:						
Brownfield	SANDY	2200	1600	1000	Blue grama	30
					Buffalograss	25
					Vine mesquite	10
					Annual grasses	5
					Other annual forbs	5
					Other perennial forbs	5

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
					Other perennial grasses	5
					Other shrubs	5
					Sideoats grama	5
					Tobosa	5
Bf:						
Brownfield	DEEP SAND	3200	2200	1200	Sand bluestem	30
					Giant dropseed	25
					Little bluestem	10
					Other shrubs	5
					Annual grasses	5
					Cane bluestem	5
					Fall witchgrass	5
					Hairy grama	5
					Other perennial forbs	5
					Other perennial grasses	5
					Sand dropseed	
					Sand lovegrass	
					Silver bluestem	
					Yellow Indiangrass	
Cc:						
Clovis	SANDY PLAINS	2400		1000	Little bluestem	15
					Other perennial grasses	15
					Sideoats grama	15
					Other perennial forbs	10
					Sand bluestem	10
					Sand dropseed	10
					Blue grama	5

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year		Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
					Other shrubs	5
					Plains bristlegrass	5
					Plains lovegrass	5
					Sand sagebrush	5
Cc:						
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	10
					Vine mesquite	10
					Other shrubs	5
					Switchgrass	5
Cd:						
Clovis	SANDY	1500		700	Blue grama	20
					Sideoats grama	20
					Black grama	15
					Little bluestem	10
					Other perennial forbs	10
					Other perennial grasses	10
					Other shrubs	5
					Plains bristlegrass	5
					Sand dropseed	5
Dr:						
Drake	DEEP SAND	1300	800	500	Alkali sacaton	20
					Blue grama	15

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
					Sideoats grama	15
					Black grama	10
					Vine mesquite	10
					Buffalograss	5
					Fourwing saltbush	5
					Other perennial forbs	5
					Other perennial grasses	5
					Other shrubs	5
					Sand dropseed	5
Dr:						
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	5
					Vine mesquite	5
					Other shrubs	5
					Switchgrass	5
Go:						
Gomez	SANDY PLAINS	2800	2100	1400	Little bluestem	30
					Other perennial grasses	15
					Sideoats grama	15
					Other shrubs	10
					Blue grama	5
					Hairy grama	5
					Other perennial forbs	5

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
					Plains bristlegrass	5
					Sand dropseed	5
					Sand lovegrass	5
Go:						
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	5
					Vine mesquite	5
					Other shrubs	5
					Switchgrass	5
Mc:						
Mankser	SANDY	2400	1750	1200	Sideoats grama	30
					Blue grama	20
					Buffalograss	10
					Little bluestem	5
					Other perennial grasses	5
					Plains bristlegrass	5
					Sand dropseed	5
					Silver bluestem	5
					Vine mesquite	5
Pa:						
Portales	SANDY	1500		800	Black grama	15
					Other perennial grasses	15
					Sideoats grama	15

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		Percent
					Other perennial forbs	10
					Other shrubs	10
					Hairy grama	5
					Little bluestem	5
					Plains bristlegrass	5
					Sand dropseed	5
					Threeawn	5
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	10
					Vine mesquite	10
					Other shrubs	5
					Switchgrass	5
Sf:						
Springer	SANDY PLAINS	2800	2100	1400	Little bluestem	15
					Blue grama	10
					Other perennial grasses	10
					Other shrubs	10
					Sideoats grama	10
					Arizona cottontop	5
					Hooded windmill grass	5
					Other perennial forbs	5
					Plains bristlegrass	5
					Sand bluestem	5

		Total	dry-weight pro	oduction	Characteristic vegetation	Rangeland composition
Map symbol and soil name	Ecological site	I Favoranio voar I	Normal year	Unfavorable year		
		Lb/a	Lb/a	Lb/a		Percent
					Sand dropseed	5
					Spike dropseed	5
					Switchgrass	5
					Yellow Indiangrass	5
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	10
					Vine mesquite	10
					Other shrubs	5
					Switchgrass	5
Zf:						
Zita	SANDY	2700	2000	1300	Blue grama	30
					Sideoats grama	15
					Arizona cottontop	10
					Buffalograss	10
					Other perennial grasses	10
					Other perennial forbs	5
					Other shrubs	5
					Plains bristlegrass	5
					Sand dropseed	5
					Vine mesquite	5
Playa	DEEP SAND	3500	2000	1500	Western wheatgrass	20
					Blue grama	15
					Other perennial grasses	15

		Total	dry-weight pro	oduction		
Map symbol and soil name	Ecological site	Favorable year	Normal year	Unfavorable year	Characteristic vegetation	Rangeland composition
		Lb/a	Lb/a	Lb/a		
					Other perennial forbs	10
					Pleuraphis jamesii	10
					Sideoats grama	10
					Vine mesquite	10
					Other shrubs	5
					Switchgrass	5

In areas that have similar climate and topography, differences in the kind and amount of rangeland or forest understory vegetation are closely related to the kind of soil. Effective management is based on the relationship between the soils and vegetation and water.

This table shows, for each soil that supports vegetation suitable for grazing, the ecological site; the total annual production of vegetation in favorable, normal, and unfavorable years; the characteristic vegetation; and the average percentage of each species. An explanation of the column headings in the table follows.

An ecological site is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time throughout the soil development process; a characteristic hydrology, particularly infiltration and runoff that has developed over time; and a characteristic plant community (kind and amount of vegetation). The hydrology of the site is influenced by development of the soil and plant community. The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production. Descriptions of ecological sites are provided in the Field Office Technical Guide, which is available in local offices of the Natural Resources Conservation Service (NRCS).

Total dry-weight production is the amount of vegetation that can be expected to grow annually in a well managed area that is supporting the potential natural plant community. It includes all vegetation, whether or not it is palatable to grazing animals. It includes the current year's growth of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of trees and shrubs. It is expressed in pounds per acre of air-dry vegetation for favorable, normal, and unfavorable years. In a favorable year, the amount and distribution of precipitation and the temperatures make growing conditions substantially better than average. In a normal year, growing conditions are well below average, generally because of low available soil moisture. Yields are adjusted to a common percent of air-dry moisture content.

Characteristic vegetation-the grasses, forbs, and shrubs that make up most of the potential natural plant community on each soil-is listed by common name. Under rangeland composition, the expected percentage of the total annual production is given for each species making up the characteristic vegetation. The amount that can be used as forage depends on the kinds of grazing animals and on the grazing season.

Range management requires knowledge of the kinds of soil and of the potential natural plant community. It also requires an evaluation of the present range similarity index and rangeland trend. Range similarity index is determined by comparing the present plant community with the potential natural plant community on a particular rangeland ecological site. The more closely the existing community resembles the potential community, the higher the range similarity index. Rangeland trend is defined as the direction of change in an existing plant community relative to the potential natural plant community. Further information about the range similarity index and rangeland trend is available in chapter 4 of the "National Range and Pasture Handbook," which is available in local offices of NRCS or on the Internet.

The objective in range management is to control grazing so that the plants growing on a site are about the same in kind and amount as the potential natural plant community for that site. Such management generally results in the optimum production of vegetation, control of undesirable brush species, conservation of water, and control of erosion. Sometimes, however, an area with a range similarity index somewhat below the potential meets grazing needs, provides wildlife habitat, and protects soil and water resources.

## **Appendix H - Land Cover Map Unit Descriptions**

## **Native Grasslands**

The grasslands within the ranch fall into two main categories: (1) short-grass prairie dominated by blue grama; and (2) transition areas of short-grass prairie and vegetative elements of the sandhills such as little bluestem.

## Short-grass Prairie Herbaceous Vegetation

Blue grama Alliance dominates the inter-dune plains and swales on nearly flat terrain with shallow, calcareous soils. The Blue Grama-**Buffalo Grass Grassland** occurs mostly within the eastern sections of the ranch and is part of a large, extensive grassland to the north and west. Another large shortgrass cell occurs in the far western section of the ranch with a relatively small remnant remaining within the ranch boundaries (Section 12, T8S R34E) surrounded by fields. Black-tailed prairie dog towns fluctuate in these landscapes (Blue Grama-Buffalo Grass/Dog Town Grassland). Shrubs such as honey mesquite and catclaw mimosa are considered invasive within these grasslands (Short-Grass / Honey Mesquite-Catclaw Mimosa Grassland) but are also common in the region. We identified a relatively small area within the NW/4 of the SW/4 of Sec. 7, T8S



BLUE GRAMA-BUFFALO GRASS GRASSLAND



SHORT-GRASS/HONEY MESQUITE-CATCLAW MIMOSA GRASSLAND

R35E; however, Section 5, north of NM Highway 262 had scattered

mesquite prior to treatment under this project at low to-moderate densities.

## Mixed Mid-Grass and Short-Grass/Shin-oak Grassland

These grasslands are considered transitional since they have elements of both the shortgrass prairies typically dominated by either grama grasses or midgrasses such as little bluestem and/or dropseed (Sporobolus spp.). They exhibit a high diversity of grasses and forbs and relative to the region, grasses in this map unit have higher cover ranging from 35-60%, whereas in the region 11-42% is typical. These grasslands are geographically situated at the margins of shin-oak-dominated areas. A classic example of the



MIXED MID-GRASS AND SHORT-GRASS/SHIN-OAK GRASSLAND

transition can be seen in Sections 9, 10 and 11 of T8S R36E.

## **Native Shrublands**

Native shrublands are increasingly threatened in the region due principally to conversion to grasslands. Farming and ranching interests have implemented mechanical and chemical treatments to remove shrublands and replace them with either native or non-native grasses, crops, or introduced grasses. The

shrublands in this map unit are dominated by shin-oak, sand sagebrush, or honey mesquite.



SPARSE SHIN-OAK DUNELAND

The remaining semi-stabilized Shin-oak Duneland is scattered throughout the ranch and is composed of

fine sands that rise at least 2 m (6.5 ft) above the surrounding undulating sandy plains. The dunes are dominated by shin-oak and are associated with little bluestem and scattered sand bluestem with yucca and various short grasses. The dunes can also have few grasses, sometimes due to overgrazing, thereby indicating a Shin-oak/Sparse **Duneland**. Within the surrounding landscape, shin-oak continues to dominate on the rolling plains where either the Shin-oak/Mixed Mid-Grass and Short Grass Shrubland or Shin-oak/Mixed Mid-Grass and Tall Grass Shrubland map units occur. Little bluestem is typically found within all areas of the ranch dominated by shin-oak, but other mid-grasses or shortgrasses may dominate the understory, such as hairy grama. Sand bluestem is the tall-grass typically found within this northern portion of the sandhills, but is usually relatively low in abundance to other grasses. The presence of sand bluestem probably indicates deeper sands, whereas shortgrassdominated sub-canopies may indicate shallow sands.



SHIN-OAK/MIXED MID-GRASS AND SHORT GRASS SHRUBLAND



SHIN-OAK/MIXED MID-GRASS AND TALL GRASS SHRUBLAND

Sand sagebrush is also found scattered or as a co-dominant with shin-oak and most abundant within the center portion of the ranch. Shin-oak-Sand Sagebrush Shrubland occurs at the margins of the Sand Sagebrush/Blue Grama Shrubland and largely occurs on loamy fine sands. At one time this unit was a much larger part of the landscape, but has been converted into fields. The map unit Honey Mesquite-



Catclaw Mimosa-Shin-oak/Short-

SAND SAGEBRUSH/BLUE GRAMA SHRUBLAND

Grass Shrubland is typically dominated by honey mesquite, but catclaw mimosa or shin-oak can be codominants. Honey mesquite is effectively spread by cattle but also occurs in CRP fields that have been un-grazed for over 40 years. As part of this project, the largest area covered by this unit was chemically treated in Sec. 5, T8S R36E. Little is known about the extent of catclaw mimosa in the eastern plains. It typically occurs at low to moderate densities within shortgrass grasslands, but it too may increase, as honey mesquite does with grazing pressures. Shin-oak typically occurs in minor amounts of small clumps where sands are deeper.

## **Old Fields**

The challenge to identifying native plant communities in eastern New Mexico lies with determining historical past use. This can be done by a thorough examination of the soils and plant cover that exist today, but is not easily derived from aerial photography or satellite imagery. Further difficulties arise when the landscape has been reseeded with native versus non-native seeds. Within the region, we have seen that CRP lands have begun to resemble natural landscapes with shrubs such as sand sagebrush and yucca moving in. We attempted to derive some of



LITTLE BLUESTEM-HAIRY GRAMA OLD FIELD

this past history of the ranch by mapping the dominant plants within the areas we determined to be old fields. In some cases these fields are maintained under the CRP and in others they are being used as

range. The majority of these lands are in the two western areas, but include portions and even sections within the far eastern part of the ranch.

### Treated

Depending on strength of the chemical mix and method of dispersion, the resulting landscape can look almost natural. Some treatments employ a milder mix that will "open" up the dominant shin-oak shrubland where die-off is incomplete, leaving some live shinoak. After this type of method is used, open areas are left to adventitious establishment of grasses and shrubs. Colonization of natives or non-natives can fill the gaps, depending on season, precipitation, and nearby species mix. In some cases, areas have



SHIN-OAK/LOVEGRASS TREATED SHRUBLAND AND DUNELAND IN THE DISTANCE

been seeded with non-native mixes. The example shown here was formerly a shin-oak shrubland with small dunes and blowouts throughout. The non-native lovegrass (*Eragrostis* spp.) is very dense in spots and is the dominant grass. Remnant patches of sand bluestem of the Shin-oak/Mixed Mid-Grass and Tall Grass Duneland can be found at the apex of dunes and blowouts.