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BIODIVERSITY OF OPEN SPACE GRASSLANDS AT A SUBURBAN/AGRICULTURAL INTERFACE

PART I

VEGETATION

Final Report to:

Biological Resources Division United States Geological Survey 4512 McMurry Avenue Fort Collins, Colorado 8052503400 [Contract No. 1445-CA09-96-0025]

and

Department of Open Space/Real Estate City of Boulder P. O. Box 791 Boulder, Colorado 80306

Prepared by:

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Date: August 11, 1997

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ABSTRACT

The grasslands that surround Boulder, Colorado are distinctive in that there is both a diverse array of native plant communities and a significant level of exotic plant invasion. Factors that contribute to community diversity include soil and topographic heterogeneity as well as a variety of land uses. Causes for the exotic plant invasion are primarily related to the process of suburbanization, which includes: habitat fragmentation, increased seed source, terrestrial eutrophication, creation of bare soil, and disruption of the natural disturbance regime.

The composition of grassland plant communities on Boulder grasslands was determined with a cluster analysis of the presence and absence data of 177 native species on 1177 quadrats that were located on 68 plots. Seven primary communities were discovered: shale, shortgrass, mixed-grass/foothills, mixedgrass/mesas, xeric tallgrass, mesic tallgrass and irrigated meadow. The plots on the uplands had a greater richness of native species and a lower richness of exotic species than the lowlands. Most of the exotic species on the uplands were monocarpic, while most of the exotic species from the lowlands were polycarpic. A principal components analysis of eleven cover and diversity variables produced an ordination that ordered the plots along an exotic to native gradient for the first component and along a wet to dry gradient for the second. It is suggested that the best method for managing the Open Space grasslands for the conservation of biodiversity is to attempt replication of pre-historic disturbance regimes, especially bison and fire.

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CHAPTER I

CONSERVING BIODIVERSITY IN A SUBURBAN CONTEXT

Abstract

Opportunities for the conservation of biodiversity range in scale from *ex situ* conservation efforts in botanical gardens and zoos to ecosystem conservation in protected parks and wilderness areas. As the scale of conservation changes, the problems and opportunities for that conservation change. Expanding suburban areas provide an often-overlooked opportunity for the conservation of biodiversity, but the management requirements are greater than in more remote ecosystems. The main factors that complicate suburban conservation are habitat fragmentation, invasion by exotic organisms, terrestrial eutrophication and direct human impacts, but it is observed that these factors can also be beneficial to conservation efforts.

Scale and Conservation

Much of the literature in the field of conservation biology has focused on either the protection and management of nature reserves, or the *ex situ* conservation

Landscape Context	Conservation Opportunities
Urban	Parks, Zoos, and Botanical Gardens
Suburban	Open Space, Greenbelts
Intensive Agriculture	Agroecology, Old Field Restoration
Managed Forest/Rangeland	Sustainable Management, Buffer Zones
Nature Reserves	National and State Parks, Wilderness

Table 1.1. Available conservation opportunities at various landscape scales.

of threatened species in zoos and botanical gardens (e.g. Frankel and Soulé 1981). However, these two approaches to conservation are not sufficient because most of the terrestrial biodiversity lies in the 95% of the landscape that is not protected in nature reserves, and *ex situ* conservation cannot address the estimated 10 million species on earth (Pimentel et al. 1992).

It can be useful to examine conservation opportunities on a continuum of scale that ranges from single species propagation efforts to complete protection of ecosystems. This also can be viewed from a human disturbance landscape perspective, ranging from dense urban areas to remote wilderness areas (Table 1.1). The opportunities and challenges to conservation change as we move along this gradient.

Urban conservation generally is relegated to parks, zoos and botanical gardens, and is most effective in saving individual species that are on the brink of extinction. The area requirements are small, but requirements of money and labor are large, due to the continuous management that is necessary for maintenance (Murphy 1988). Zoos and botanical gardens are able to support conservation efforts through charging the public for access to the grounds. Natural ecosystems have been protected within some cities, such as Rock Creek Park in Washington D.C. and Fairmont Park in Philadelphia (Murphy 1988), but without vigorous management these areas are prone to the loss of native species over time (Noss 1983, Drayton and Primack 1996).

The other end of the continuum is the attempt to conserve whole ecosystems in a wilderness context. The labor requirements are small, in fact the ideal is to eliminate human impacts and "let nature take its course". The primary benefit of wilderness conservation is that whole systems are conserved, not just the obvious species, and it is more efficient at conserving biodiversity than single-species efforts (Noss 1996). The drawbacks of whole system conservation are that the area requirements are very large if viable populations and natural disturbance regimes are to be maintained, some human impact is inevitable (especially through recreation), and many biological systems no longer exist in an undisturbed state.

More recently the conservation value of areas that fall between these two extremes has been recognized. This can range from semi-natural buffer areas around wilderness to small remnants within a developed (or more correctly, denatured; Soulé 1990) landscape. Western and Pearl (1989) estimate that 50% of the terrestrial area of the earth is devoted to agriculture, 20% to commercial forests, 25% is occupied by human settlements, and 5% is unmanaged and uninhabited. Due to population and political pressures, it is unlikely that the unmanaged/uninhabited area will increase greatly in the future, so effective management of the other 95% of the landscape is

critical to the conservation of biodiversity.

On a global scale, semi-natural areas of agriculture and managed forests contain the most biodiversity (Pimentel et al. 1992), so that effective conservation of these areas is crucial (Westman 1990, Franklin 1993). Many of these ecosystems are only lightly or moderately impacted by humans through logging, grazing or hunting. When these impacts are kept to sustainable levels, the ecosystem processes often remain relatively intact. The semi-natural matrix is critical to the maintenance of nature reserves due to its capacity to connect reserves and buffer them from more highly disturbed landscapes (Franklin 1993).

Areas used for intensive agriculture are highly modified systems, but they still have potential for conservation. Many native arthropods and soil microorganisms exist in agricultural contexts, and agroecological methods such as intercrops, shelterbelts, and a reduction in pesticide use can enhance the diversity of these organisms (Pimentel et al. 1992). Traditional agriculture practices are critical also in the conservation of crop genetic diversity (Frankel 1978, Altieri and Merrick 1987).

One of the greatest threats to the conservation of biodiversity is the massive habitat alteration associated with the expansion of human settlements. Area occupied by urban lands in the United States (defined as denser than 620 individuals/mi.²) increased by 22 million acres between 1960 and 1980 (McDonnell and Pickett 1990). Much of this growth, especially in the United States, is due to the rapid expansion of suburban areas, at the expense of habitats in the semi-natural matrix.

Although much habitat is lost to suburban growth, there exists here a significant, and often overlooked, opportunity for conservation. Remnants of semi-

natural areas often occur within expanding suburban developments. The most effective way to conserve these fragments is through the purchase of the property by local and regional governments (Press et al. 1996). Over 1.1 million acres of land in the U.S. have been protected in this manner. Funding for these purchases often comes from property taxes, sales taxes, local ballot initiatives, grants, and publicprivate partnerships. Reasons for public support of these purchases are varied, and include habitat conservation, greenbelts to preserve local identity, and recreational opportunities.

Factors Affecting Conservation Values of Suburban Habitat Fragments

Suburban open spaces present unique opportunities for the conservation of biodiversity. The landscape context of suburban open space presents special difficulties to the maintenance of biodiversity, but it also presents benefits that are not available in larger, more remote nature reserves. Factors that are of central concern to the management of suburban protected areas are habitat fragmentation, exotic organisms, terrestrial eutrophication, and direct human impacts.

Habitat Fragmentation

Challenges. A common condition of habitat remnants within a suburban matrix is their relatively small size. This is usually the result of habitat fragmentation, which effects the natural ecosystem both by reducing its size and isolating it from other similar habitats (Wilcove et al 1986, Saunders et al 1991). Island biogeographic theory and metapopulation models predict that both of these processes lead to extinction and a resultant loss of biodiversity within fragments

(Spellerberg 1990, Kareiva and Wennergren 1995) due to both stochasticity (Gilpin and Soulé 1986) and loss of genetic variation (Allendorf and Leary 1986). Organisms that are most susceptible to extinction are those that have large space requirements and poor means of dispersal. In general, plants are better able to survive in fragments than animals because they are able to maintain higher levels of heterozygosity and buffer stochastic events through seed banks (Lesica and Allendorf 1992), but many plants are dependent upon animals for pollination or dispersal, and losses of an animal can lead to secondary extinctions of other organisms (Wilcove et al. 1986, Jennersten 1988).

The suburban landscape matrix affects habitat fragments along its edge through changes in both abiotic and biotic conditions (Murcia 1995). Abiotic effects, such as radiation, wind and water are especially pronounced when the physiognomy of the remnant is very different from the surrounding matrix (Saunders et al. 1991). Biotic effects, which include both domestic organisms (cats, dogs) and human commensals (cowbirds, jays and crows), may extend up to 600m inside forest fragments (Wilcove et al. 1986).

Habitats that have an evolutionary history of disturbance such as fire or large herbivore grazing are especially hard to manage within a suburban matrix. Fragmentation coupled with fire suppression virtually eliminates wildfire frequency, and the use of prescribed fires may face some public opposition. Grazing systems composed of a diversity of migratory animals, such as those found on the Great Plains, are very difficult to replicate on small grazing units. Preservation of suburban fragments is complicated by predicted global climate change. Warming temperatures might require shifts of several hundred kilometers for some species in the next fifty years (Quinn and Karr 1993). As the climate changes, some species will be lost from fragments, but the suburban landscape around these fragments can be an effective barrier to the immigration of many new species.

Benefits. Despite the difficulties, small fragment conservation can be very important because often it is all that we have left (Shafer 1995, Turner and Corlett 1996). The small size of most open space land purchases (<400ha) coincides with the habitat requirements of many endangered plants (Press et al. 1996). These habitat fragments can also be used as a seed source for the reestablishment of the communities in other areas (Franklin 1993, Shafer 1995, Turner and Corlett 1996). Having replicates of a habitat type in several fragments also helps buffer the habitat against catastrophe or disease (Shafer 1995).

Exotic Organisms

Challenges. Perhaps the greatest threat to conserving native ecosystems within suburban habitats is the invasion by exotic (nonindigenous) organisms. Exotic plant species usually are more common in suburban landscapes than in rural systems (McDonnell et al. 1993). Potential reasons for this include the creation of bare soil, habitat fragmentation, disruption of natural disturbance regimes, increased nitrogen input, and increased seed source.

The presence of bare soil facilitates the invasion of exotic species into native ecosystems. Many exotic plants are able to spread very rapidly as a result of linear soil disturbances that are associated with road, trail, and railroad construction (Baker

1986, Mack 1986, Milchunas 1989, Huenneke 1997). It also has been shown that soil disturbances in discrete patches can increase the ability of an exotic plant to invade a native community (Bergelson et al. 1993). Communities that naturally have a greater percentage of bare ground, such as open grasslands and sand dunes, also are more likely to be invaded by exotic plants than communities such as closed forests (Baker 1986). Exceptions are communities that have bare ground as a result of soil nutrient deficiencies, such as serpentine communities in California (Huenneke et al. 1990), and shale communities in Colorado (see Chapter II), that seem to be resistant to exotic species invasion despite the large percentage of bare ground.

Many of the factors that effect native communities in habitat fragments also encourage the invasion by exotic species. As species are lost from a fragment, it is likely that niches in the habitat will open up to allow new species to invade. Also, as a fragment becomes smaller, its surface to area ratio increases, so that the increased invasion by exotics around the edge affects more of the fragment (Temple 1990, Hester and Hobbs 1992, Huenneke 1997).

Suburban habitat fragments often have drastically altered disturbance regimes, which can tip the competitive balance in the community towards exotic species. Increased fire frequency in areas not adapted to fires has been shown to increase the frequency of exotic species (Bridgewater and Blackshall 1981), while suppression of fire in fire adapted areas also has been shown to favor exotics (Curtis and Partch 1948). Similar effects have been found with grazing systems. Grazing in historically grazed areas generally does not increase in exotic species (Diaz et al. 1994), while grazing in historically ungrazed areas can cause the invasion of exotic species (Mack

1986). The presence of exotic species in a community can change the disturbance regime; for example, exotic grasses can increase the fire frequency (D'Antonio and Vitousek 1992). Hobbs and Huenneke (1992) describe how management of small habitat fragments is especially difficult because disturbance is essential to the maintenance of many ecosystems, but also can promote the invasion of exotic species.

Suburban areas are especially susceptible to terrestrial eutrophication caused by increased atmospheric nitrogen deposition from anthropogenic sources such as automobile and industrial emissions, and drift from chemical fertilizers. Several areas with large human populations (Los Angeles, East Coast of United States, and the Netherlands) have been shown to have at least a 10 fold increase in nitrogen deposition (Riggan et al. 1985, Bobbink and Willems 1987, Wedin and Tilman 1996). The addition of nitrogen to a plant community can increase exotic species (Laurenroth et al. 1978, Bridgewater and Backshall 1981, Hobbs et al. 1988, Huenneke et al. 1990, Hester and Hobbs 1992, Wedin and Tilman 1996), or decrease the diversity of native plants (Bobbink and Willems 1987, Pysek and Leps 1991, ten Harkel and van der Meulen 1995). Nitrogen added to a system by both native (Maron and Connors 1996) and non-native (Vitousek 1990) nitrogen fixers also has been shown to increase exotic plant invasion.

Many species planted for landscaping in suburban areas potentially can invade adjacent protected sites (Baker 1986, Hobbs and Humphries 1995). An analysis of invasive woody exotic plants in North America showed that 85% were purposely introduced for landscaping purposes (Reichard 1997). Suburban areas also harbor

both plants and animals that have evolved commensalistic relationships with human habitation, such as dandelions (*Taraxacum offininale*) and house mice (*Mus musculus*), that can spread into nearby natural ecosystems.

Benefits. Exotic species generally are thought to have a negative effect on the communities that they invade. An alternative viewpoint is put forth by Johnson and Mayeux (1992). They argue that plant community composition is not stable over long time scales, and changed even before human influence. They also argue that there have been more plant species introductions than extinctions in California since human settlement, therefore causing an increase in richness. They seem to use this reasoning to call for a relaxation of grazing laws on Western United States rangeland. This can be a dangerous line of reasoning because it ignores the fact that the changes in community structure are occurring at a rate that is much faster than pre-historical changes. Also, increases in species richness at a regional scale may be due to a temporary disequilibrium and are definitely leading to a loss of biodiversity at a global scale due to local extinctions of narrowly distributed species (Mooney 1988).

Within a suburban landscape context, certain exotic organisms can be valuable tools for conservation efforts. Many exotic species have evolved with human disturbance, and have been selected to provide food, fiber, or medicines (Lugo 1990). Exotic species can be used to replace extinct species or to help communities recover from anthropogenic disturbances. The value of exotic organisms will increase as more and more ecosystems are impacted by humans due to population growth, and as global climate changes affect fragmented landscapes which may lead to extirpation of many native species (Williams 1997). The idea that new, working

communities can be created through new combinations of species has been variously named "synthetic communities" (Bridgewater 1988), "recombinant ecology" (Soulé 1990) "mixecology" (Soulé 1990), and "possible landscapes" (Nassauer 1995).

Direct Human Impacts

Challenges. One of the challenges to conserving vegetation in suburban environments is the impact of the people within that environment. Humans constitute the animal species with the greatest mass, and suburban open spaces are heavily trampled through recreational activities. This trampling causes changes in both plant community composition and in soil properties (Liddle 1975, Ikeda and Okutomi 1992). Other direct human impacts include poaching, flower picking, and the collection of plants for food, tea or medicines.

The coexistence of people and habitat fragments also can make it difficult to manage open spaces effectively. The use of controlled burning and removal of exotic organisms can anger certain segments of the public (Soulé 1990, Temple 1990). The use of herbicides must also be restricted in suburban areas due to the negative effects of these chemicals on public health (Liebman and Dyck 1993).

Benefits. One factor that often is overlooked in the literature is that the public in suburban areas can be used as a resource. If people are educated about the importance of their local open space, it is likely that some will volunteer their time or money for projects such as fence building, weed removal, or research.

Conclusions

Many problems must be faced when trying to conserve biodiversity within a suburban context. There also are benefits that are associated with each of these problems, which makes suburban areas an important link in the global conservation strategy. By necessity, suburban parcels are small in size, which increases the chances of species extinctions and exotic species invasion. The small size is effective for conserving rare habitats, for protecting against disease, for use as a seed source for revegetation, and for allowing experimentation on the creation of new communities. Exotic species are especially problematic in suburban areas, but some of them may have beneficial uses, especially in replacing ecosystem functions lost by extirpated native species. Managing for native diversity is difficult because natural disturbance regimes usually are disrupted, and the public may object to some management practices. It should be remembered, though, that suburban conservation often is possible only through the support of local governments, and public volunteers can be a useful tool. Education and involvement of the public on open space issues is important for successful conservation efforts.

CHAPTER II

PLANT COMMUNITIES ON BOULDER OPEN SPACE GRASSLANDS

Abstract

A large diversity of plant community types and relatively high levels of exotic plant invasion characterize the grasslands surrounding Boulder, Colorado. Sixtyeight plots were established on grasslands around Boulder with various land uses and landscape contexts in order to determine the composition of the native plant communities and the distribution of exotic species. Each plot was sampled using 12 $1m^2$ quadrats in both 1995 and 1996. A cluster analysis was used to classify 1177 quadrats based on the presence and absence of 177 native species. It was determined that there were seven primary communities; shale, shortgrass prairie, mixed grass prairie/foothills, mixed grass prairie/mesas, xeric tallgrass, mesic tallgrass and irrigated meadow. The lowland plots had a greater richness of exotic species and a lower richness of native species. The plant communities found here are compared with other studies of grasslands in the region in the past eighty years, and the biggest differences are the increases in exotic species and the native grass Agropyron smithii.

Introduction

Grassland plant communities along the eastern base of the Colorado Front Range are complex and diverse. Some of these communities are unique to this region, some are common on the Western Great Plains, and others are disjunct relicts of prairie vegetation that generally occurs only on the Eastern Great Plains (Vestal 1914, Livingston 1953, Hanson and Dahl 1956, Branson et al. 1965, Moir 1969, Baker and Galatowitsch 1985, and Santanachote 1991). Reasons for this high diversity of communities may include increased precipitation (compared to the adjacent plains region), higher water table, greater soil and topographic variability, and interactions with the adjacent montane vegetation.

Vestal (1914) first described the variety of grassland communities in the Boulder area, but historical land use changes doubtless have modified these grasslands over the past 80 years. The rapid growth of the City of Boulder coupled with additional tracts of land plowed for agriculture have greatly reduced the extent of grassland communities in the area. Remaining grasslands are impacted by human uses in many ways, including: continued history of livestock grazing, introduction of exotic species, atmospheric deposition of nutrients and pesticides, and alteration of natural disturbance regimes and animal distributions (see Chapter I).

The objective of this study was to determine native grassland plant communities managed as open space by the City of Boulder, Colorado, and to

compare these results with descriptions of grasslands in the Boulder Valley over the past 80 years. A secondary objective was to examine the frequency and composition of exotic plant invasions into these communities, and to determine if the exotic species are functionally different from the native species.

Material and Methods

Study Area

This research took place on the grasslands that are part of City of Boulder Open Space, in Boulder County, Colorado. Many land parcels surrounding the city have been purchased by the city of Boulder through a special tax for the purpose of aesthetics, recreation, and biological and cultural conservation. Grasslands occur on two main landforms on the Open Space property, lowlands and uplands. The lowland grasslands occur in a piedmont valley created by Boulder and South Boulder Creeks, and are either flood irrigated or have a naturally high water table. Upland grasslands are found on several mesas in the area, and at the base of the Front Range foothills adjacent to Ponderosa Pine (*Pinus ponderosa*) Woodland.

Grasslands on City of Boulder Open Space have been subjected to a variety of land uses both historically and during the study. Most were used for grazing by cattle and horses. Some areas were grazed continuously, others seasonally, while some areas have been protected within grazing exclosures. Most irrigated meadows were cut in the summer for hay, while others were plowed and planted with alfalfa (*Medicago sativa*) or other row crops.

Sixty-six 200m diameter study plots were established on the City of Boulder Open Space and two plots in Chautauqua Meadow on City of Boulder Mountain Parks. Each plot was marked with a central re-bar stake, and its position was determined using maps and Global Positioning System (Table 2.1, Fig. 2.1.). These plots were established as part of a larger project in which songbird, raptor, grasshopper and rodent densities also were measured. The plots were located on both uplands (36 plots) and lowlands (32 plots) and included a variety of land uses, including grazing, haying, and recreation. Some of the plots were intentionally established near developed areas and recreational paths, while others were located relatively remote from human uses.

Vegetation Sampling.

Vegetation was sampled on each of the 68 plots during July 1995 and again in July 1996. At each plot, a 50m transect was established in a due west direction from the plot center, and $1m^2$ nested quadrats were sampled every 4m (12 quadrats per plot per year) for presence and absence of all vascular plant species (nomenclature from Great Plains Flora Association 1986, synonymies with Weber and Whitman 1996 in Appendix 1). Nested quadrats were similar to those described by Smith et al. (1987), and consisted of a $0.0625m^2$ quadrat, nested within a $0.25m^2$ quadrat, nested within a $1m^2$ quadrat. Species occurring in the smallest quadrat were recorded, followed by species occurring in only the largest quadrat. Summed frequency values were then computed by determining the frequency of each species in all of the sub-quadrats. For example, a species occurring in the smallest sub-quadrat would also be considered to be present

Table 2.1: Locations and habitats of the 68 study plots. Location data were collected from GPS (66 plots) or map analysis (11 plots). Co-ordinates are State Plane Zone 501, NAD83. Data provided by Sandy Haire. Irrigated plots occurred on uplands. Some lowlands were also irrigated. Plots were considered grazed (cattle or horses) or used by prairie dogs if there was any use between 1994 and 1996. Several of the prairie dog towns were extirpated by plague in 1994.

Plot#	East	North	Position	Land Use	Other
1	3057918	1262144	Upland	Ungrazed	
2	3058049	1262782	Upland	Ungrazed	
3	3058775	1265001	Upland	Ungrazed	Prairie Dogs
4	3059866	1268821	Upland	Ungrazed	
5	3059366	1269140	Upland	Ungrazed	
6	3063806	1271574	Upland	Grazed	
7	3064918	1271643	Upland	Grazed	
8	3063821	1272276	Upland	Grazed	
9	3064463	1272702	Upland	Grazed	
10	3066364	1271828	Upland	Grazed	
11	3066693	1271206	Upland	Grazed	
12	3061719	1277934	Upland	Grazed	
13	3062363	1277705	Upland	Grazed	
14	3065860	1275591	Upland	Grazed	
15	3065922	1275990	Upland	Grazed	
16	3070500	1272898	Upland	Grazed	Prairie Dogs
17	3070101	1273349	Upland	Grazed	Prairie Dogs
18	3071612	1278202	Upland	Grazed	Prairie Dogs
19	3073860	127861 7	Irrigated	Mowed	Plowed
20	3077317	1278035	Irrigated	Mowed	Plowed
21	3075779	1275923	Irrigated	Mowed	Plowed
22	3077381	1275457	Irrigated	Mowed	Plowed
23	3098308	1266853	Upland	Ungrazed	Revegetated
24	3098147	1266037	Upland	Ungrazed	Revegetated
25	3074328	1263758	Irrigated	Grazed/Mowed	
26	3074982	1263758	Irrigated	Grazed/Mowed	
27	3072570	1257346	Upland	Ungrazed	Prairie Dogs
28	3070105	1229743	Upland	Grazed	
29	3069777	1229810	Upland	Grazed	
30	3081756	1259897	Upland	Grazed	Prairie Dogs
31	3080658	1259853	Upland	Grazed	Prairie Dogs
32	3091424	1245936	Irrigated	Grazed/Mowed	Plowed
33	3092209	1245937	Irrigated	Grazed/Mowed	Plowed

Table 2.1: Locations and habitats of the 68	study plots (cont.).
---------------------------------------------	----------------------

Plot#	East	North	Position	Land Use	Other
34	3078549	1243461	Lowland	Grazed/Mowed	
35	3080265	1241925	Lowland	Grazed/Mowed	
36	3079741	1241127	Lowland	Grazed	
37	3078758	1238378	Lowland	Grazed/Mowed	
38	3077638	1236684	Lowland	Grazed/Mowed	
39	3093787	1240763	Irrigated	Mowed	
40	3093833	1240212	Irrigated	Mowed	
41	3080801	1237289	Lowland	Grazed/Mowed	
42	3081036	1236415	Lowland	Grazed/Mowed	
43	3078967	1234559	Lowland	Grazed	
44	3079691	1233598	Lowland	Grazed	
45	3080068	1233118	Lowland	Grazed	
46	3082655	1233974	Lowland	Ungrazed	
47	3082899	1234026	Lowland	Ungrazed	
48	3083492	1234185	Lowland	Grazed	
49	3081036	1233121	Lowland	Grazed/Mowed	
50	3082483	1232281	Lowland	Grazed/Mowed	
51	3081473	1231978	Lowland	Grazed/Mowed	
52	3082703	1230293	Upland	Grazed	
53	3083473	1230524	Upland	Grazed	
54	3072738	1227408	Lowland	Grazed	
55	3071697	1227491	Upland	Grazed	
56	3072179	1226463	Lowland	Ungrazed	
57	3071703	1226467	Upland	Ungrazed	
58	3074464	1226978	Lowland	Ungrazed	
59	3074393	1226613	Lowland	Ungrazed	
60	3071956	1217577	Upland	Grazed	
61	3073111	1218263	Upland	Grazed	
62	3072979	1216674	Upland	Grazed	Prairie Dogs
63	3077453	1215445	Upland	Grazed	
64	3077986	1215826	Upland	Grazed	
65	3078193	1214038	Upland	Grazed	Prairie Dogs
66	3093289	1239999	Lowland	Grazed	
101	3060170	1241526	Upland	Ungrazed	Burned 4/95
102	3060140	1242436	Upland	Ungrazed	Burned 4/96

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Figure 2.1: Map showing the locations and plot numbers of the 68 study plots in relation to city limits and publicly owned lands.





City of Boulder Open Space Easement



City of Boulder Mountain Parks



City of Boulder Parks and Recreation



Boulder County Parks and Open Space

Boulder County Parks and Open Space Easement





Roosevelt National Forest



Other Public Lands



City Limits



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in both of the sub-quadrats within which it was nested. A species present in only the largest quadrat would be considered to be present in one of the three quadrats. This method allowed for the discrimination between the frequencies of the dominant species, while simultaneously receiving information on the rarer species.

Statistical Analysis.

A total of 1632 nested quadrats were sampled in 1995 and 1996. For purposes of identifying plant communities, only positively identified native species were used (determination as a native based on Weber 1995). The data set was reduced by selecting only those native species that were in at least three $1m^2$ quadrats, and selecting only quadrats that had at least three native species. This removed all exotics and very rare native species from the analysis as well as quadrats that did not have a significant native species component. The resulting matrix consisted of 1177 quadrats by 177 native species.

A cluster analysis was performed on this data set using the program SPSS (1990). The analysis used Sorenson's similarity coefficient based on the presence and absence of each species in each of the $1m^2$ quadrats, and average linkage between groups was used for agglomeration. It was decided that $1m^2$ was an appropriate scale for classification because several plots appeared to consist of more than one plant community, but at the scale of the quadrat, the vegetation was relatively homogeneous.

The output was examined for natural cluster breaks, and it was determined that there were seven main plant communities and several smaller communities. Dominant species for each of the communities were considered to be those species

with at least 50% summed-frequency, while sub-dominants were those species between 25% and 50%. Although exotic plant species were not used for classification purposes, their frequencies in each community type were recorded and described.

Plants were grouped into plant functional types based on origin (native or exotic), systematics (graminoid or forb), life history (monocarpic or polycarpic) and physiology (C_3 or C_4 photosynthesis). Graminoids were considered to be plants in the Poaceae, Cyperaceae, and Juncaceae families, and forbs to be vascular plants in all other families. The graminoids share the ecological traits of linear leaves, wind pollination, and physical, rather than chemical, defenses against herbivory. Plants were determined to be monocarpic (flower once) or polycarpic (multiple years of flowering) based on descriptions in the Great Plains Flora (1986). Graminoids were separated by photosynthetic pathway (C_3 or C_4) based on Waller and Lewis (1979) (plant functional types for all species used in the study are shown in Appendix 1).

Results

Cluster Analysis

The final cluster of the agglomerative cluster analysis separated the two lowland plant communities that occur on soils that are often saturated with water during the growing season from the upland plant communities that occur on drier soils (Fig. 2.2). The drier sites were separated into two groups. Shortgrass and mixed-grass/foothills communities were dominated by *Agropyron smithii*, which was rare in the other three upland communities. The irrigated meadow community had a



Figure 2.2: Dendogram of the relationship of the seven primary communities determined from the cluster analysis. Position of the end bars indicate the similarity within each community.

relatively high level of internal similarity, but was relatively dissimilar to all of the other communities (Fig. 2.2). The similarity coefficients between the communities are smaller than what would be expected using a traditional relevé approach (Mueller-Dombois and Ellenberg 1974) because of the smaller size of the 1m² quadrats and the non-subjective selection of the quadrat locations.

On some of the plots all quadrats were classified as the same community, but for most of the plots, more than one community was present (Table 2.2). The lowland plots tended to have more plant communities per plot (greater spatial heterogeneity) than the upland plots (Table 2.1, Table 2.2). The dominant plant community for each plot can be seen in Figure 2.3.

Description of Plant Communities

Shale Community. The shale community was restricted to three plots north of Boulder that occurred on soils derived from shale. The three dominant native species were *Linum perenne*, *Aristida purpurea*, and *Bouteloua curtipendula* (Table2.3; complete community composition is listed in Appendix 2). Two species, *Stipa neomexicana*, and *Physaria bellii* were restricted to the shale community (Table 2.4). *Physaria bellii* is a rare and endangered plant that is found only in this area on shale derived soils. Very few exotic species were able to invade this community, but two annual species (*Alyssum minus* and *Bromus japonicus*) were the most frequently sampled species in the community (Table 2.3).

Shortgrass Prairie. The shortgrass prairie community classified the largest number of quadrats (Table 2.2), and probably was composed of several closely related community types that are not discriminated here. This community generally

Table 2.2: Number of quadrats classified into each of the seven main plant communities. The "other" category consists of several small, unrelated clusters. The "exotic" category are quadrats that had less than three native species present, and were not used in the classification.

	Plant Community								
			Mixed-grass	Mixed-grass	Xeric	Mesic	Irrigated		
Plot	Shale	Shortgrass	Foothills	Mesas	Tallgrass	Tallgrass	Meadow	Other	Exotic
1		1	22					1	
2			23					1	
3								13	11
4		3	17					4	
5	22	2							
6		24							
7		20	2					2	
8		24							
9		24							
10		19						4	1
11	1	12						6	5
12	24						·		
13	24								
14		24							
15		6						15	3
16		24							
17		4						1	19
18								16	8
19									24
20								1	23
21									24
22						1			24
23							1	18	6
24		1						11	13
25								1	23
26		1		<u> </u>	1				24
27		1			1		1	12	12
28		1		22		1	1	2	1
29		1		24		1			1
30		24		1	1	1	<u> </u>		1
31		11			1		1	5	8
32		<u> </u>		1	1	1		<u> </u>	24
33				†	1	1	1	1	24
34		1		1	1	1	7	5	12

	Plant Community								
			Mixed-grass	Mixed-grass	Xeric	Mesic	Irrigated		
Plot	Shale	Shortgrass	Foothills	Mesas	Tallgrass	Tailgrass	Meadow	Other	Exotic
35								10	14
36						2		22	
37				[3		14	7
38							15	6	3
39									24
40									24
41							21		3
42							5		19
43						21	1		2
44						1	8	1	14
45				1	23				
46						20		4	
47						23		1	
48					15	1		7	1
49						1	8	13	2
50						19		3	2
51						24			
52				24					
53				24					
54			1	1	17	3		1	1
55				24					
56		2		4	2	1		11	4
57		1		18	3	1			1
58				5	3	11		5	
59				2		22	1		
60				24			1		
61				24			1		[
62		20	1	1	1			2	1
63		12		<u> </u>			1	9	3
64				1				6	18
65		22			1		<u> </u>	1	1
66				<u> </u>			1	<u></u>	24
101			23	1	1	1	1	1	
102			22	†		†	1	2	
TOT	71	279	111	197	65	153	65	236	455

Table 2.2 Numer of quadrats per community (cont.)


Shale N=71 SF **Native species Exotic species** SF 53% 90% Alyssum minus Linum perenne 52% Bromus japonicus 69% Aristida purpurea Bouteloua curtipendula 51% Helianthus pumilus 49% Tragopogon dubius 34% Evolvulus nuttallianus 44% Bouteloua gracilis 36% 35% Andropogon gerardii 32% Stipa comata Stipa neomexicana 27% 27% Psoralea tenuiflora 25% Lesquerella montana Shortgrass N=279 **Native species** SF **Exotic species** SF 83% 64% Bromus japonicus Agropyron smithii 59% Alyssum minus 58% Bouteloua gracilis **Buchloe dactyloides** 38% Bromus tectorum 37% 33% Convolvulus arvensis 29% Sphaeralcea coccinea 30% Artemisia frigida Plantago patagonica 27% Mixed-grass/Foothills N=111 SF Native species SF **Exotic species** 82% 80% Bromus japonicus Agropyron smithii Artemisia ludoviciana 69% Alyssum minus 56% Aster falcatus 57% Carex heliophylla 46% Tragopogon dubius 46% Ambrosia psilostachya 44% Poa pratensis 43% Psoralea tenuiflora 34%

Table 2.3: Dominant and sub-dominant species for each of the seven main plant communities. SF is the summed-frequency for each species. N is the number of nested quadrats.

Mixed-g	grass/Me	esas N=197	
Native species	SF	Exotic species	SF
Andropogon gerardii	61%	Bromus japonicus	57%
Carex heliophylla	58%		
Bouteloua gracilis	49%	Poa compressa	42%
Stipa comata	46%	Tagopogon dubius	33%
Psoralea tenuiflora	42%		
Ambrosia psilostachya	41%		
Koeleria pyramidata	34%		
Bouteloua curtipendula	33%		
Liatris punctata	26%		
Panicum virgatum	25%		
Xeric T	allarass	N=65	
Native species	SF	Exotic species	SF
Andropogon gerardii	82%	Poa pratensis	70%
Ambrosia osilostachva	65%	Plantado lanceolata	61%
Ambroold pollooldonyd		Bromus japonicus	55%
Andropogon scoparius	25%	Cichorium intybus	45%
		Poa compressa	38%
		Taraxacum officinale	32%
		Convolvulus arvensis	27%
		Dianthus armeria	25%
Mesic	Tallgras	s N=153	
Native species	SF	Exotic species	SF
Sporobolus asper	64%	Plantago lanceolata	72%
		Poa pratensis	51%
		Poa compressa	51%
Andropogon gerardii	40%	Taraxacum officinale	39%
Panicum virgatum	36%	Trifolium pratense	37%
Sorghastrum nutans	34%	Festuca pratensis	37%
Eleocharis compressa	32%	Phleum pratense	35%
Aster falcatus	32%	Convolvulus arvensis	32%
Juncus longistylis	29%	Agrostis stolonifera	30%
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Table 2.3 Dominant and Sub-dominant species (Cont.)

Table 2.3 Dominant and Sub-dominant species (Cont.)

Native species	SF	Exotic species	SF
Juncus balticus	67%	Festuca pratensis	63%
Eleocharis compressa	58%	Poa pratensis	51%
Carex praegracilis	35%	Trifolium hybridum	48%
Carex nebrascensis	35%	Taraxacum officinale	34%
		Agrostis stolonifera	30%

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Table 2.4: Synoptic table showing summed-frequency values for native plant species in each of the seven main grassland communities. S = Shale, SG = Shortgrass, MF = Mixed-grass/Foothills, MM = Mixed-grass/Mesas, XT = Xeric Tallgrass, MT = Mesic Tallgrass, Meadow, IM = Irrigated Meadow.

Species	S	SG	MF	MM	XT	MT	IM
Oryzopsis hymenoides	4%	1%			•	•	•
Gaura coccinea	10%	7%	1%				
Hybanthus verticillatus	9%	1%			•	-	•
Astragalus sericoleucus	22%	1%	•				•
Senecio spartioides	16%			1%	1%	3%	
Physaria bellii	13%		•		•	•	•
Evolvulus muttalliamus	44%	4%	2%	2%			•
Helianthus pumilus	49%	2%	1%				
Stipa neomexicana	27%						
Linum perenne	53%	13%	11%	4%	•		•
Sporobolus cryptandrus	· · ·	6%	•	•	2%		· •
Aristida purpurea	52%	20%	1%	5%	2%		•
Sphaeralcea coccinea	1%	33%	6%	•	1%		
Astragalus drummondii	3%	4%	7%	•			
Euphorbia robusta	8%			1%	•		
Artemesia dranunculus	0%	5%	10%		•		•
Musineon divaricatum	9%	5%		1%	•	1%	•
Gutierrezia sarothrae	23%	11%	9%	6%	1%		
Oxytropis lambertii	8%	1%		3%	•		•
Artemesia frigida	24%	30%	2%	10%	6%	1%	
Plantago patagonica		27%	2%	9%	1%		
Viola mıttallii	13%	1%	11%	2%	•	•	
Poa sandbergii		7%	-	1%			
Lesquerella montana	25%	1%		11%			
Gaillardia aristata	5%	•	•	4%			
Astragalus agrestis		7%	11%		•	•	•
Chrysopis villosa	8%	8%	1%	22%	1%	•	•
Erysimum asperum	7%		2%	6%		•	•
Astragalus flexuosus		2%	8%	1%	•		
Yucca glauca	1%	1%	4%	5%	1%		•
Festuca octoflora	•	8%		4%	5%	1%	
Cirsium undulatum	3%		2%	4%	•		
Helianthus annuus	•	1%	•	5%	•		•
Stipa comata	32%	10%	2%	46%	1%		
Comandra umbellata	16%	2%		2%	•		

Species	S	SG	MF	MM	ХТ	MT	IM
Senecio plattensis	6%		2%	4%		1%	
Stipa viridula	13%	4%	11%		•	•	
Lomatium orientale		1%	4%	3%	•	•	•
Allium textile	3%	2%	1%	5%	1%		•
Echinocereus viridiflorus	•	2%		15%	•	•	
Eriogonum alatum	2%		2%	8%	•	•	
Artemesia campestris	•	1%		1 3%	•	•	•
Sitanion hystrix	14%	4%	•	20%	3%	1%	
Paronychia jamesii	3%		•	6%			•
Schedonnardus paniculatus		3%		4%			
Liatris punctata	8%	3%	24%	26%		•	•
Bouteloua gracilis	36%	59%	19%	49%	18%	4%	
Cerastium arvense			7%	•	•		
Buchloe dactyloides	1%	38%	3%	13%	7%	•	
Thelesperma megapotamicum	15%	3%	2%				
Bouteloua curtipendula	51%	. 8%	5%	33%	10%	2%	
Mertensia lanceolata			4%	1%		•	•
Erigeron divergens		8%	13%	8%	11%	2%	•
Bouteloua hirsuta	3%		•	4%	3%	4%	•
Agropyron smithii	16%	83%	82%	2%	5%	7%	4%
Artemesia ludoviciana	10%	8%	69%	13%	2%	1%	•
Arenaria fendleri	•	•		18%		-	•
Koeleria pyramidata	2%		11%	34%	1%		•
Chenopodium dessicatum		3%		4%	•	•	
Opuntia macrorhiza	6%	6%	11%	18%	4%	2%	•
Psoralea tenuiflora	27%	17%	34%	42%	14%	13%	•
Vicia americana	5%		4%		•	•	•
Tragia ramosa	3%		4%	16%	•		
Carex heliophylla		5%	46%	58%	22%	2%	
Dalea purpurea	7%		•	14%	2%		•
Grindelia squarrosa	8%	6%	5%	1%	21%	1%	•
Ratibida columnifera	6%	2%	4%	3%	5%	5%	-
Potentilla fissa				4%		•	
Muhlenbergia wrightii		•		7%		•	
Stipa spartea	•		7%				
Muhlenbergia montana		•	1%	2%		4%	-
Dalea candida	5%		•	1%	10%	•	
Symphoricarpos occidentalis			4%	1%		1%	-
Ambrosia psilostachya	10%	1%	44%	41%	65%	16%	•

Table 2.4: Native species by plant community (Cont.)

Table 2.4: Native species by plant community	(Cont.)	
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Species	S	SG	MF	MM	XT	MT	IM
Aster porteri			8%	22%	6%	7%	•
Lupinus argenteus	•		5%	1%	4%	•	•
Oxalis dillenii		•	•	9%	7%	1%	
Aster falcatus	3%	13%	57%	14%	18%	32%	1%
Andropogon gerardii	35%	•	19%	61%	82%	40%	
Andropogon scoparius	2%		1%	18%	25%	13%	•
Achillea millefolium		1%	9%	•	4%	8%	
Dicanthelium oligosanthes			•	1%	•	29%	
Sporobolus asper			2%	10%	13%	64%	
Sorghastrum mutans				10%	8%	34%	•
Panicum virgatum				25%	6%	36%	11%
Cirsium flodmanii							
Rosa arkansana			14%	1%	2%	14%	
Potentilla gracilis				1%	2%	4%	
Asclepias speciosa	:		•		2%	6%	•
Equisetum laevigatum	•			1%	•	9%	4%
Iris missouriensis	•				•	5%	
Hordeum jubatum				•	4%		1%
Juncus longistylis	-			1%	3%	29%	18%
Juncus balticus				2%	17%	6%	67%
Eleocharis compressa		•				32%	58%
Spartina pectinata							2%
Prunella vulgaris		•			•	21%	2%
Carex praegracilis			•		10%	11%	35%
Eleocharis macrostachya		•			•	5%	10%
Carex nebrascensis					4%		35%
Carex lanuginosa					•	9%	10%
Trislochin maritima							16%

occurred on plots with a history of prairie dog activity or areas that were heavily grazed by cattle or horses. The dominant native species were *Agropyron smithii*, and *Bouteloua gracilis*, and the dominant exotics were *Bromus japonicus* and *Alyssum minus* (Table 2.3).

Mixed-grass Prairie/Foothills. Almost all of the quadrats in this community occurred on plots that were ungrazed, and at the base of the foothills near Ponderosa Pine Woodland. The dominant native species were Agropyron smithii, Artemisia ludoviciana, and Aster falcatus, and the dominant exotics were Bromus japonicus and Alyssum minus (Table 2.3). Stipa spartea was found only in this community (Table 2.4).

Mixed-grass Prairie/Mesas. Most of the quadrats that were classified in this community were found on grazed mesa tops and gravelly benches near South Boulder Creek (Table 2.2). These mesas were derived from ancient streambeds that have resisted erosion (Lee 1900). The dominant native species were Andropogon gerardii and Carex heliophylla. There were also four other native species with summed-frequencies over 40% (Table 2.3). Bromus japonicus was the lone dominant exotic species.

Xeric Tallgrass. The xeric tallgrass plots occurred primarily on three plots in South Boulder that were grazed by cattle (Table 2.2). Two native species, *Andropogon gerardii* and *Ambrosia psolistachya*, dominated this community, but otherwise the community was dominated mostly by exotic species (Table 2.3). This community contained exotic species that are common to drier sites (*Bromus* japonicus), as well as species that are common to wetter sites (*Plantago lanceolata* and *Taraxacum officinale*) (Table 2.5).

Mesic Tallgrass. This community most resembled the tallgrass prairie of the Eastern Great Plains. Some of the quadrats in this community came from grazed areas, but the majority of the quadrats were from grazing exclosures and irrigated hayfields with a significant native species composition. The four most frequent native species (*Sporobolus asper, Andropogon gerardii, Panicum virgatum,* and *Sorghastrum nutans*; Table 2.3) were all grasses that are considered common components of the tallgrass prairie (Hulbert 1988, Collins 1989). There were many exotic species that co-occurred with the native tallgrass species, and most of these are C₃ meadow grasses that are commonly planted for pasture improvement (*Poa sp., Festuca pratensis, Phleum pratense* and *Agrostis stolonifera*).

Irrigated Meadow. This community was found on irrigated hayfields southeast of Boulder. The dominant native plants were monocots other than grasses that are commonly found in wetlands, such as *Juncus balticus, Eleocharis compressa*, and *Carex spp*. The dominant exotic species were mostly European pasture grasses (Table 2.3).

Other Communities. There were 236 quadrats with at least three native species that classified into several minor communities (Table 2.2). One of these communities occurred on an abandoned wheat field that had been revegetated with several grass species (plots 23 and 24). Another community was found in several wet areas with poor drainage and was dominated by *Hordeum jubatum*.

Table 2.5: Synoptic table showing summed-frequency values for exotic plant species in each of the seven grassland communities. See Table 2.5 for community abbreviations.

Species	S	SH	MF	MM	XT	MT	IM
Verbena bracteata	•	2%			•	•	•
Hordeum vulgare	•	1%	•	2%		-	
Centaurea diffusa	8%	20%	•	•	•	1%	
Sysimbrium altissimum	•	3%	3%	3%	•	-	
Bromus tectorum	1%	37%	11%	13%	3%	-	
Scorzonera laciniata	2%	17%	2%	1%	2%	•	
Erodium cicutarium	•	23%	4%		9%	•	-
Carduus nuttans	2%	1%	8%	•	1%		•
Alyssum minus	90%	58%	56%	20%		2%	•
Camelina microcarpa	4%	7%	3%	12%	1%	•	
Lepidium densiflorum		7%	1%	12%	9%		
Veronica peregrina		1%	•	•	•		1%
Silene antirrhina		4%	4%	13%	6%	•	
Tragopogon dubius	34%	21%	46%	33%	10%	2%	
Bromus japonicus	69%	64%	80%	57%	55%	15%	8%
Lactuca serriola	0%	2%	18%	1%	8%	1%	•
Conringia orientalis			2%	-		•	
Lepidium campestre		4%	6%	3%	8%	2%	2%
Hypericum perforatum		1%	•	6%	1%		•
Melilotus alba			•	•	1%	2%	•
Convolvulus arvensis	2%	29%	4%	2%	27%	32%	1%
Conyza canadensis					10%	•	•
Linaria dalmatica			1%				
Poa compressa	1%	5%	16%	42%	38%	51%	8%
Melilotus officinale		1%		•	10%	10%	
Dianthus armeria				2%	25%	4%	•
Rumex acetosella			1%	8%	7%	2%	
Cichorium intybus	•	1%	1%	8%	45%	20%	7%
Poa pratensis		6%	43%	21%	70%	51%	51%
Bromus inermis		1%	4%	•		3%	•
Trifolium repens			•	1%	1%	1%	2%
Rumex crispus					14%	1%	7%
Medicago lupulina					4%	9%	•
Medicago sativa				•			
Plantago lanceolata		4%	1%	5%	61%	72%	10%
Daucus carota		•		1%		8%	1%
Taraxacum officinale	1%	3%	6%	4%	32%	39%	34%
Dactylis glomerata				1%	12%	10%	3%
Cirsium arvense				•	2%	7%	1%

Species	S	SH	MF	MM	XT	MT	IM
Phleum pratense				1%	6%	35%	22%
Lotus tenuis		•	•		•	2%	16%
Agropvron repens		•				•	5%
Trifolium pratense					12%	37%	18%
Agrostis stolonifera	-		•	1%	8%	30%	30%
Juncus gerardii	-			•	4%	1%	6%
Ambrosia artemisiifolia				•	•		8%
Festuca pratensis		-	. .		8%	37%	63%
Plantago major	-					•	2%
Trifolium hybrihum	•			1%	7%	1%	48%
Polygonum persicaria	•		•				12%
Anocomum cannahinum	•					3%	1%
Trifolium fragiferum	•	•	•		•	•	14%

 Table 2.5: Exotic species by plant community (Cont.)

A large portion of these quadrats occurred in similar areas as the mesic tallgrass prairie, but on areas that had accumulated a dense layer of dead grass material which limited the growth of the C₄ tallgrass species (Knapp and Seastedt 1986). The areas were often dominated by the native plant *Rosa arkansana*, and native grass species were rare, while *Dactylis glomerata* and several other European C₃ grasses and forbs were quite common.

There were also 455 quadrats that did not have at least three native species present. Many of these quadrats were on hayfields or plowed agricultural land (mostly alfalfa), but some of the quadrats occurred within native communities where the soil had been disturbed and exotic species had invaded.

Plant Functional Types

There was a distinct difference between the plant functional types of native and exotic plants on the Boulder grasslands (Table 2.6). Native C_4 graminoids were common in all communities except the irrigated meadow, but there were no exotic C_4 graminoids in any of the communities. Native monocarpic plants were rare in all community types, but exotic monocarpic grasses and forbs were common on the drier community types. The exotic polycarpic plants were most common in the three wettest communities, which had irrigation or natural surface water at some point during the summer. These same four wet communities also had the lowest richness of native polycarpic forbs. Table 2.6: Plant species richness/ m^2 of native and exotic species, separated by community and plant functional type, including total richness for each community and average richness for each plant functional type.

Native Species

NF To	tal
0 1	2.7
).5	7.5
D.1	9.3
D.5 1	3.3
0	6.1
0	6.6
0	3.9
0.2	
	0.1 0.5 1 0 0 0 0.2

Exotic Species

Community	PC₄G	PC₃G	PF	MC ₃ G	MF	Total
Shale	0	0	0.1	0.7	1.8	2.6
Shortgrass	0	0.2	0.5	1.2	2.3	4.2
Mixed-Grass/Foothills	0	0.8	0.2	1.0	2.2	4.2
Mixed-Grass/Mesas	0	0.8	0.6	0.9	1.6	3.9
Xeric Tallgrass	0	1.8	3.4	0.7	1.5	7.4
Mesic Tallgrass	0	2.4	2.6	0.2	0.5	5.7
Irrigated Meadow	0	2.3	2.1	0.1	0.4	4.9
Average	0.0	1.2	1.4	0.7	1.5	

Key to Plant Functional Types

PC4G = Polycarpic C₄ Graminoids PC3G = Polycarpic C₃ Graminoids PF = Polycarpic Forbs (including sub-shrubs) MC3G = Monocarpic C₃ Graminoids MF = Monocarpic Forbs

Discussion

Similarity to Other Published Works

Shale. This community was similar to the Stipa comata-Bouteloua gracilis-Bouteloua curtipendula association described by Hanson (1955) approximately 30km to the north of the community sampled here (72% similarity based on presence/absence using Sorenson's coefficient). The main differences are that Hanson's plots had more Stipa comata, Andropogon scoparius, and Sphaeralcea coccinea, less Linum perenne, Lesquerella montana, and Tragopogon dubius, and his plots contained no Stipa neomexicana, S. viridula, or Physaria bellii. There was also no Alyssum minus on Hanson's plots because it had not invaded this region at the time of his study (Weber 1976).

Moir (1969) described three communities on the shale soils north of Boulder. His *Stipa neomexicana* community most closely resembles the shale community described here. The main differences are that Moir's community had 100% frequency of *Stipa neomexicana*, and no *Limum perenne* or *Alyssum minus*, and very little *Bromus japonicus*. The lack of *Linum perenne* and *Alyssum minus* on Moir's plots, while most other plants had similar frequencies between the two studies suggests that they were added to the community between 1967 and 1995.

Shortgrass and Mixed-grass/Foothills. The shortgrass prairie was similar to shortgrass prairie described in the Boulder area by Vestal (1914), and by other authors on the Western Great Plains (Shantz 1919, Costello 1944). The main difference is that in this study there was a higher frequency of *Agropyron smithii*, and most of the exotics from this study were not present in the earlier studies. The mixed-

grass/foothills community described here most closely resembles the wheat-grass association described by Vestal (1914).

Mixed-grass/Mesas, Xeric Tallgrass, and Mesic Tallgrass. These three communities were floristically related, and tended to intergrade into each other. They all had species in common with tallgrass prairie or true prairie on the Eastern Great Plains, and several authors have described these similarities. The mixed-grass mesa community closely resembled the *Andropogon scoparius* community of Hanson and Dahl (1956), the stony soil community of Branson et al. (1965), and the xeric tallgrass of Baker and Galatowitsch (1985). Vestal's (1914) bunch-grass association and Moir's (1969) *Andropogon gerardii – Poa pratensis* community seemed to have elements from both the mixed-grass mesa and xeric tallgrass communities.

What we have described here as mesic tallgrass prairie does not seem to have been described before in Colorado. It differs from the other tallgrass descriptions in that it is dominated in frequency by *Sporobolus asper*, and the tallgrass species primarily occurred with wetland species (*Carex spp., Juncus spp.*, and *Eleocharis spp.*) rather than mixed-grass species (*Chrysopis villosa, Koelaria pyramidata, Liatris punctata*, and *Stipa comata*).

Plant Functional Types

The most obvious change in the grassland vegetation between this study and that of Vestal (1914) was the addition of many C_3 exotic species. This also can be seen in herbarium specimens (Weber 1995). Exotic annual plants that have invaded the uplands (*Alyssum minus* and *Bromus spp.*) were found in high densities both on grazed and ungrazed grasslands. These species complete their life cycle in early

spring before the perennial plants in the community are most active. It has been hypothesized that this keeps these plants from competing with the rest of the vegetation (Weber 1995), but early spring is when most perennials and native annuals must germinate and competition at this stage may be critical (Hanson and Dahl 1956, Campbell 1997).

A component of the upland prairies that was noticeably deficient in this study was native monocarpic plants. Native annuals are generally frequent components of native shortgrass and mixed-grass prairies, especially on prairie dog towns (Bennett 1993). There were 37 species of native monocarpic forbs sampled on the plots (Appendix 2), but all of them were relatively rare. Prairie dog towns in the study were dominated mostly by exotic species, which may account for the rarity of the native annuals.

The exotic C₃ pasture grasses that were common on all of the wetter plots were not mentioned by Vestal (1914), with the exception of *Poa pratensis*. These pasture grasses may have been introduced since that time or Vestal may not have examined those areas that had recently been seeded with pasture grasses. *Poa pratensis* may have been already naturalized in the area by 1914, but it is also possible that much of the *Poa pratensis* was actually the native counterpart, *Poa agassizensis*.

Changes in the frequency and distribution of native species since Vestal's study were not as obvious as the addition of exotics. Some differences could be due to actual changes in vegetation, but they also could be due simply to differences in sampling methods or locations. One change that most likely has occurred is the

increase in Agropyron smithii on the uplands. Agropyron smithii is considered a native species to this area, but it is also commonly planted from seed for range improvement, which may be partly responsible for its increase in density.

The increase in *Agropyron smithii*, in association with the increase in C_3 exotics, indicates a possible overall shift from C_4 to C_3 dominance in the grasslands around Boulder. This shift may have been due to the addition of exotic seed source to the system, which allowed the exotic species to invade. Another possible explanation is that the C_3 species are favored by terrestrial eutrophication (Chapter I). C_4 plants have been shown to have higher nitrogen use efficiencies (Brown 1978), and are more common in nitrogen limiting habitats (Barnes et al. 1983). The anthropogenic increases in atmospheric nitrogen deposition may have shifted the competitive balance in favor of C_3 species in some situations. This may be linked to the decrease in the importance of mycorrhizae in determining the vegetation. Mycorrhizal densities have been shown to be higher in C_4 dominated prairie than on C_3 dominated pastures (Miller et al. 1995).

CHAPTER III

MULTIVARIATE ANALYSIS OF PLANT FUNCTIONAL TYPES IN A HETEROGENOUS SUBURBAN GRASSLAND

Abstract

A principal components analysis was performed on eleven variables that described the structure of heterogeneous grassland communities on the City of Boulder Open Space in Colorado. Six of the variables were measurements of the cover of different plant functional types, two variables measured cover of bare ground and litter, and three variables were measurements of diversity. The first axis of the ordination described a gradient from plots with a high cover of exotic species to plots characterized by a large diversity of native plants. This axis was used to rate the plots for their vegetation quality and conservation value. The second axis corresponded to a moisture gradient from mesic to xeric, which was positively correlated with bare ground and negatively correlated with cover of exotic pasture grasses. The third axis described a gradient from many exotic species to presence of bare ground and the fourth axis was correlated with heterogeneity with the plot.

Introduction

Grassland plant communities surrounding Boulder, Colorado are diverse in their species composition (Chapter II). This is due to a high spatial variability in the soil, topography and land use in the area. Boulder is located at the ecotone between Rocky Mountain forest and Great Plains grassland and also harbors several plant species and communities that are disjunct from distributions in the Eastern United States (Weber and Wittman 1996). The grasslands have been heavily fragmented in the last 100 years due to suburban and agricultural development.

These grassland fragments have been subjected to a wide variety of disturbance regimes. Most of the fragments have been heavily grazed by cattle at some point during this period, but for some of the fragments, the grazing has been fairly constant while others are grazed only during the winter or have been completely protected from grazing for a period of time. Other disturbances include mowing, recreation and atmospheric deposition of nutrients and herbicides.

Heterogeneity of the plant communities also is increased by the variable introduction of exotic species into the fragments. These introductions are often restricted to a small number of fragments. The exotic species also tend to respond to different historical land uses. The addition of exotic plants can displace native plants, or even alter ecosystem function (Vitousek 1986).

There were three primary goals of this research. The first was to relate these heterogeneous plots to each other in an ordination based upon community characteristics rather than the dominant species. The second goal was to determine the land use and landscape factors that shape the plant community structure on the Boulder grasslands. The last goal was to reduce data complexity, and develop a few composite variables, to describe the vegetation for use in comparisons with animal community measurements that have been taken on the same plots.

Materials and Methods

Background

Principal components analysis (PCA) is one of the most popular multi-variate statistical methods used in the study of vegetation (James and McCulloch 1990). The most common use of PCA in vegetation analysis is the ordination of sites based on the measurement of cover, or some other value of importance for a group of species. The limitation of this method is that PCA is most useful when the variables are near normally distributed (James and McCulloch 1990), and this condition is generally only met for common species in data sets with low β -diversity. Species most often deviate from normal distribution when they are not present in many of the sampling sites. An alternative use of PCA for data sets with high levels of β -diversity, is to analyze community structure by using plant functional types as variables.

The use of plant functional types is instructive because it is at that level that most land management practices have their effects. The drawback of this method is that the experimenter must subjectively choose the variables used in the analysis.

There are many ways in which to separate species of a community into groups, and the combinations of all of these ways can create so many variables that it approaches a species based method. For best results, the experimenter needs to choose the variables that are most important to the community being studied that will produce interpretable descriptive results.

Recently the study of plant functional types has received an increasing amount of attention (Golluscio and Sala 1993; Paruelo and Lauenroth 1996). Plant functional types (also called guilds or functional groups) are groups of species that have similar traits and roles in the ecosystem (Paruelo and Lauenroth 1996). Plants within a single functional type are thought to have an "ecological redundancy" (Walker 1992) that provide similar services to an ecosystem. However, this does not make multiple species within an ecosystem expendable because redundant species buffer the ecosystem against environmental change (Tilman and Downing 1994; Walker 1995). Redundancy is a difficult concept to measure in the field because there are many factors that affect how a species functions in an ecosystem, and some of these functions may not be obvious.

Two factors that often are used to separate plant functional types are photosynthetic pathway and growth form. Grasses with C_3 and C_4 photosynthetic pathways have been shown to have different effects on an ecosystem due to differences in phenology, habitat and structure. In the high plains, the C_3 grasses are also called cool-season grasses because they are most active in cool seasons, and are most common at high latitudes, high elevations and in shade conditions (Paruelo and Lauenroth 1996). C_4 (warm-season) grasses are most active in hot summer months,

and are most common in environments that are hot and wet, and especially where most of the precipitation falls in the summer (Paruelo and Lauenroth 1996). C₄ grasses are thought also to have higher maximum photosynthetic rates, higher nitrogen and water use efficiency, and to be more resistant to herbivory and decay, although there are exceptions to all of these (Caswell et al. 1973; Waller and Lewis 1979; Barnes et al. 1983; Paruelo and Lauenroth 1996).

There are several different methods by which plants can be divided based on growth form. One of the simplest and most common divisions is graminoid, forb, shrub and tree. Graminoids are considered to be grasses and grasslike plants (Poaceae, Cyperaceae and Juncaceae). These plants tend to be different functionally from forbs due to their wind pollination, linear leaves, and a greater reliance on physical rather than chemical defenses to herbivory. More detailed groupings may include non-vascular plants, sub-shrubs and succulents.

Life history has a large bearing on the function of a plant within an ecosystem. Long-lived perennial plants lend an ecosystem temporal stability, or "inertia" (Westman 1978). Communities dominated by annual plants are more likely to fluctuate over time (Hobbs and Mooney 1995). A problem with grouping plants into annuals and perennials is that biennial plants are not included in either. This problem can be addressed by combining annuals and biennials into a common class of monocarps, which are species that die after flowering. Polycarps are the multiple flowering species that usually create the structure of an ecosystem.

Native and exotic plants are not usually considered separate functional groups, but in communities in which they both have a significant presence it can be important

to separate them. The invasion of exotic plants has been shown to radically alter ecosystem function (Vitousek 1986; Walker and Smith 1997). Exotic plants tend to be fast growing with a large reproductive output. They are also usually generalists in their interaction with mycorrhizae, pollinators and seed dispersers (Bazzaz 1986).

Bare ground and plant litter are not plant functional types, but can be important determinants of community composition. Bare ground is important for seed germination of many plants. Litter has been shown to be important in a large variety of ecosystem and community processes (Hulbert 1969; Knapp and Seastedt 1986; Pierson and Mack 1990; Carson and Peterson 1990; Naeth et al. 1991).

Field Methods

Field data were collected from the same 68 plots that were used for plant community classification in Chapter II (Fig. 2.1, Table 2.1). Two sets of field data were used; frequency data from 1995 and 1996 described in Chapter II, and cover data collected in 1995 and 1996. Cover was sampled at each of the 68 study plots in both June and August of each year. During each sampling period, transects were established 100m due east and west from the plot center. Six point samples were measured at random points on a 1m semi-circle with an optical point projector at 4m intervals along these transects. This sampling resulted in 300 points per plot per sampling period (1200 total points). Living plant material was classified to species, dead material was recorded as litter, and rock and soil as bare ground. In the event of overlapping vegetation, all species under the vertical line were recorded..

Statistical Analysis

Variables Used in Analysis. Eleven variables were chosen for use in the principal components analysis. Eight of the variables were based on measurements of cover. Because these variables represent proportions, they were transformed with an angular transformation to improve normality (Sokal and Rohlf 1981). The richness and heterogeneity variables were left untransformed for analysis.

JUNE COVER OF NATIVE FORBS – The cover of monocarpic forbs was not a significant factor on most of the plots, so the monocarpic and polycarpic forbs were lumped together. Cover and diversity of native forbs was lower in August than in June due to senescence of many species, so June cover was used in the analysis.

JUNE COVER OF NATIVE C₃ POLYCARPIC GRASSES – These were cool-season mid-grasses such as Agropyron smithii and Stipa spp.

AUGUST COVER OF NATIVE C₄ POLYCARPIC GRASSES – These were the grasses that are most typical of both the tallgrass prairie (e.g. Andropogon spp.) and the shortgrass prairie (Bouteloua gracilis and Buchloë dactyloides). August cover was used because the species are warm season grasses that were most active in mid-summer.

JUNE COVER OF EXOTIC MONOCARPIC PLANTS – Annual exotic graminoids and forbs seemed to occupy similar niches, and often were found together, so they have been lumped together in this analysis. The most common plants were annual *Bromus spp.* and mustards (*Alyssum minus* and *Descurania spp.*).

JUNE COVER OF EXOTIC POLYCARPIC FORBS – This was a rather diverse group that includes taprooted rosettes (*Taraxacum officinale* and *Plantago* spp.), clovers (Trifolium spp.), and deep rooted clonal species (Cirsium arvense and Convolvulus arvense).

JUNE COVER OF EXOTIC POLYCARPIC C₃ GRASSES – These were mostly European pasture grasses that had been planted intentionally for cattle forage (*Poa spp., Phleum pratense, Festuca pratensis, Dactylis glomerata, and Agropyron* repens).

JUNE COVER OF BARE GROUND AND JUNE COVER OF LITTER – For both of the years studied, any litter present in June was from at least the previous year's growth. Both of these variables were sampled only on points without live vegetative cover.

RICHNESS/M² OF NATIVE SPECIES AND RICHNESS/M² OF EXOTIC SPECIES – For these two variables, richness was defined as the average number of native or exotic species that occurred within each $1m^2$ quadrat during frequency sampling in July 1995 and 1996.

HETEROGENEITY – Heterogeneity is a measure of the change in plant communities within a plot. We used a simple measure of heterogeneity, which is the total number of species sampled in 24 $1m^2$ quadrats on each plot, divided by the average number of species per quadrat. Twelve of the quadrats on each plot were sampled in 1995 and 12 in 1996, so this variable is a combination of both spatial and temporal heterogeneity (Collins 1987).

Principal Components Analysis. A principal components analysis was performed using the eleven variables after transformation of the cover variables.

SPSS (1990) FACTOR was used for the analysis, which extracted four factors and used a varimax rotation.

Plot Identification. Plots are identified on the ordination diagrams in three different ways; plot numbers, dominant plant community and landscape context/land use. The plot numbers refer to the plot numbers in Table 2.1 and Figure 2.1. The dominant plant community was determined by using the communities that were described from the quadrat based clustering in Chapter II (Table 2.2). The dominant community for each plot was the community that occurred on the most quadrats on that plot. Plots dominated by minor communities were classified as "other". Plots that were dominated by quadrats that had less than three native species per m^2 were classified as exotic. Landscape context and land use was combined to create one variable to describe the plots. Three landscape contexts were recognized: uplands north of Boulder, uplands south of Boulder, and lowlands. Three land uses also were recognized; grazed, ungrazed and irrigated hayfields. There also were two plots that were restored prairie on an abandoned wheat field, and several plots that showed evidence of severe soil disturbance within the last 10 – 20 years.

Results

The first factor extracted from the principal component analysis explained 40.6% of the variance in the data set. This factor corresponded with relatively large loadings from six variables (Table 3.1), and described a gradient from plots dominated by exotic polycarpic grasses and forbs to plots with high levels of native

	Factor 1	Factor 2	Factor 3	Factor 4
Richness/m2 of Native Species	0.83993	0.13208	-0.28076	-0.13498
June Cover of Litter	0.83311	0.16394	0.18754	0.06401
August Cover of Native C ₄ Grasses	0.80983	-0.03800	0.31697	0.23099
June Cover of Exotic Polycarpic Forbs	-0.74766	-0.23654	0.28865	0.10415
June Cover of Native Forbs	0.67497	0.23919	-0.35832	-0.02366
June Cover of Exotic Monocarpic Plants	0.19400	0.86810	0.05806	-0.00491
June Cover of Native C ₃ Grasses	0.06225	0.85448	-0.22185	0.02349
June Cover of Exotic Polycarpic C ₃ Grasses	-0.51440	-0.76638	0.07718	-0.20069
June Cover of Bare Ground	0.00924	0.54051	-0.41908	0.33688
Richness/m2 of Exotic Species	0.08953	-0.11498	0.83507	-0.15929
Heterogeneity	0.00278	0.11589	0.15584	0.92752

Table 3.1: Rotated factor matrix of the principal components analysis.

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 C_4 grasses, native forbs, high richness of native species and June cover of litter. Because this factor generally described a gradient from exotic dominated plots with few natives to plots with many native species and few exotic species, it corresponded well with the value of these plots for the purposes of native prairie conservation. On the ordination diagrams, we have drawn subjective vertical lines to separate the highest quality plots from moderate and low quality plots (Figure 3.1), the locations of which can be seen in Figure 3.2.

The second factor explained 18.0% of the variance, and correlated strongly with three variables: positively with cover of exotic monocarpic plants and native C_3 grasses, and negatively with cover of exotic polycarpic grasses (Table 3.1). This very roughly describes a moisture gradient from wet lowlands to dry uplands. The third factor explained 9.6% of the variance, and described a gradient from a high richness of exotic species to high cover of bare ground and native forbs. The fourth factor explained 8.6% of the variance, and was positively correlated with heterogeneity.

The ordination diagrams that relate the first two principal components to the plant communities and landscape/land use are useful for visualizing the relationships of the plots to one another based on the variables used in the analysis (Figures 3.3 and 3.4). Examination of the plant community ordination (Figure 3.3) shows that the communities tended to group in similar regions, but the grouping was by no means absolute. The land use/landscape context ordination (Figure 3.4) also shows a certain level of mixing among each of the groups.

Richness/quadrat of native species June cover of litter June cover of native forbs August cover of C4 grasses



and Fig. 2.1).

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Discussion

The first axis of the principal components analysis was by far the most important factor in ordinating the plots. This factor explained more than twice as much of the variation than any of the other factors. The gradient that it describes is from communities with a high cover of polycarpic exotics to communities with a high diversity of native species. It is possible that exotic species have invaded areas that were naturally low in species richness, but it is more likely that the exotics have displaced the native species, or that the exotics invaded the areas after the native species were lost due to anthropogenic disturbance. The correlation of June litter cover with the first axis may be due to lower levels of disturbance on these plots, or a result of the higher cover of C_4 plants in August on these plots.

The second axis is interesting because it separated two different types of exotic species, the polycarpic grasses and the monocarps. This axis separates the lowland and irrigated plots from the drier ones, with the exception of plots 28 and 29 which occur on an escarpment that may supply a near-surface water table (Figure 3.1). The correlation of native C_3 grasses with bare ground and exotic monocarps is not as obvious, but may be due to the preference of the native C_3 grasses for the drier upland areas.

The upper right-hand corners of the graphs are noticeably empty. It is in this area that good quality shortgrass areas, especially prairie dog towns, would be located. Milchunas et al. (1989) found that shortgrass prairie at the Pawnee Grasslands in Colorado were relatively resistant to invasion by exotic plants. At Wind Cave National Park in South Dakota, shortgrass prairie on active prairie dog

towns had very few exotic species, but when the prairie dogs were removed, exotic species were able to invade (Bennett 1993). The lack of high quality shortgrass areas may be due to the fact that these habitat types do not have a long history in this area, or may be due to the loss of the disturbance regime that maintained these communities. The prairie dog colonies in the Boulder area are susceptible to bubonic plague outbreaks, and most of the colonies were exterminated by plague during the study which may have allowed invasion by exotic plants. It is likely that the greater amounts of exotic plants on Boulder Open Space shortgrass is a result of atmospheric nitrogen deposition and other factors associated with suburban habitat fragments (Chapter I).

The assignment of the three quality classes was subjective, but these cutoffs corresponded well to observations that we had made during three years of fieldwork on these plots. The one exception to this is plot #5 which we would consider a high quality plot, but the richness of the plot is low because of the large amounts of bare ground on the shale soils. An important point to realize is that this is a measurement of these communities at one point in time. Grasslands are known to change structure and composition relatively rapidly, and respond readily to land management and climatic changes (Dodd et al. 1995). How these plots are managed will determine whether they improve or decline in quality.

There are several possibilities to expand this analysis. Instead of combining the two years, they could be analyzed separately so that annual changes in the variables can be assessed. This can be useful to determine the short-term effects of land management changes. Discriminant function analysis could be performed on the

same data set to force the grouping of the plots with respect to the plant communities. The four extracted principal components also could be correlated with data on animal species. It is likely that the factors that are most important in structuring plant communities may be different from the ones that are important in structuring animal communities.

CHAPTER IV

MANAGEMENT OPTIONS FOR BOULDER GRASSLANDS

Ecosystem Management of Great Plains Grasslands

Disturbance History

Effective management of Great Plains grasslands is a difficult task because grassland communities show strong responses to disturbance regimes, and the large scale disturbances that once dominated the Great Plains no longer occur. The three most important kinds of disturbance on the Great Plains were drought, grazing and fire. In the tallgrass prairie, fire was likely more important than grazing, while shorter grasslands were mostly impacted by grazing. A gradient probably occurred between these two extremes, so that most regions were affected by both disturbances.

The Great Plains grasslands are likely of a relatively recent (post-Pleistocene) origin (Axelrod 1985). Since that time, two events have drastically altered the region. The first event occurred approximately 10,000 years ago when humans first entered the area. At this time, massive extinctions of large mammal species occurred in North America (Martin 1987). For the next 10,000 years, grassland communities evolved under the dominant effects of three animal species, bison (*Bison bison*),
with cattle. Cattle have been shown to be fundamentally different from bison in their grazing methods at both large and small scales (Schwartz and Ellis 1981). At the landscape scale, cattle prefer the moist lowland areas during the warm months, while bison are most often found on the uplands. At a smaller scale, cattle are more selective grazers, avoiding C_4 grasses and eating mostly C_3 grasses and forbs.

Three other factors distinguish livestock grazing systems from natural grazing systems. The first is the reduction in the diversity of grazers. Grazing by a diversity of species will theoretically result in a more diverse vegetation (Howe 1994b). The second factor is the increase in animal densities on livestock systems as a result of food, mineral and water supplementation, predator control and veterinary practices (McNaughton 1993). The final factor is the reduced mobility of grazers in livestock systems. It is likely that large bison cow/calf herds migrated widely, grazing areas severely, but not returning until the area had time to recover. The method of rotational grazing is an attempt to partially recreate this facet of the native grazing system. This method, when used properly, can result in improved vegetation. Unfortunately, many livestock managers are following a system of short grazing periods and short rest periods at livestock densities at least twice as high as conventional levels (e.g. Savory 1983), which is leading to range deterioration (Willms et al. 1990).

On the mixed and shortgrass prairies, prairie dogs (*Cynomys ludoviciamus*) are a keystone species that many native plants and animals depend on historically (Miller et al. 1994). The concentration of prairie dog activity on prairie dog towns creates a

patch structure on the landscape that has a large effect on the vegetation and the activity of animals (Whicker and Detling 1988).

Fire

With the exception of the shortgrass prairie, fire was an important disturbance affecting the vegetation on Great Plains grasslands before European settlement. For areas that have evolved with fire, its exclusion can be thought of as a disturbance to the system (Biondini et al. 1989). In the tallgrass prairie, fire should be considered as a necessary component for its preservation (Hulbert 1969). Spring burning of tallgrass areas usually results in dramatic increases in biomass and flowering of the tallgrass species due to increased available light, temperature and nitrogen (Hulbert 1988). Fire has also been shown to reduce densities of invasive woody plants and C₃ grasses, especially *Bromus spp.* and *Poa spp.* (Curtis and Partch 1948, Collins 1987, Bock and Bock 1989, Santanachote 1992). If non-native grasses have also evolved in a fire-adapted system, burning is less likely to remove them (Bock and Bock 1992).

While fire may have apparent permanent effects on an ecosystem (Bock and Bock 1989, D'Antonio and Vitousek 1992), usually repeated fires are necessary to obtain management objectives. Gibson and Hulbert (1987) found that a fire cycle of four to eight years resulted in maximum diversity in Kansas tallgrass prairie. Shorter fire cycles resulted in dominance by C_4 tallgrass species and longer fire cycles resulted in reduction of C_4 grasses and an increase in *Poa pratensis, Bromus japonicus* and several forbs.

The season of burning has a strong effect on the resultant vegetation (Biondini et al. 1989, Howe 1994a). Howe (1994b) argues that the present practice of spring

burning is not necessarily the best method for tallgrass conservation. Spring burning encourages the C_4 tallgrass species, but it is historically inaccurate, and comes at the expense of a wide variety of native forbs.

Other Disturbances and Interactions

There are several small scale disturbances that are important on Great Plains grasslands, including fecal pats, harvester ant mounds, bison wallows and mounds of burrowing animals such as prairie dogs, gophers and badgers (Collins and Barber 1985, Coffin and Lauenroth 1988, Uno 1989). While these disturbances are small and affect a small part of the grassland, they result in bare soil and usually add to the diversity of the vegetation.

There also are strong interactions among disturbances. For example, bison are strongly attracted to areas that have been burned in the previous year (Bock and Bock 1989, Vinton et al. 1993). Prairie dog towns are locations of increased bison wallowing, and increased grazing by both bison and pronghorn (*Antilocarpa americana*) (Koford 1958, Coppock et al .1983, Wydeven and Dahlgren 1985, Krueger 1986, Whicker and Detling 1988).

Conservation Opportunities for Boulder Grasslands

General Strategies

The grasslands on the City of Boulder Open Space constitute a significant biological resource with high conservation value. Vegetation is very diverse. This is true both at a small scale, with some areas averaging over 25 species per m², and at a landscape scale, with several fundamentally different community types co-existing within a relatively small region. Some of these community types are rare, and significant in their own right, especially the tallgrass, shale, and mesa communities. Fortunately, this land is publicly owned and managed by a department with considerable funds per unit area and a mandate for the conservation of natural systems. As the Open Space Department matures, funds will need to be transferred from acquisitions to management to maintain the conservation value of these areas.

There are many problems that must be faced if conservation of these grasslands is to be successful. These problems include reduction and fragmentation of the grassland, alteration of the disturbance regime, invasion of many exotic plants and animals, inputs of anthropogenic nitrogen, and trampling of vegetation by recreational users. Many of these problems are related, and proper management should be able to mitigate some of the effects.

There should be three primary goals when managing the grasslands for conservation value: 1) control and reduction of exotic plant densities, 2) maintenance of native plant populations and communities, and 3) restoration of native communities on degraded areas. The first two goals are intractably linked because increases in exotic plants will degrade native communities and management of exotic species will not be effective without addressing the causal roles of the original invasion and managing the native plants along with the exotics (Luken 1997, Woods 1997).

The primary effort for management of exotic species on Boulder grasslands should be directed at the ecosystem (Hobbs and Humphries 1995) or community level (Woods 1997). One of the primary factors causing the invasion of exotic species is the alteration of the natural disturbance regime (Huenneke 1997). This can be caused either by the increase or decrease in the intensity, frequency or quality of a disturbance. Often the restoration of the pre-settlement disturbance regime will favor the native species over exotic species.

Where possible, exotic species that do not respond to ecosystem management should be managed through hand weeding and judicious mowing. This approach is only effective for certain species, such as large monocarpic plants like knapweed (*Centaurea diffusa*) and Mediterranean sage (*Salvia aethiopis*). Volunteers could be recruited from local groups, through advertising and through the community service program.

Biological control is a viable method for those species for which effective measures have been discovered. There are some dangers of impacts on non-target species but previous results in the United States have been very positive (DeLoach 1997). Plants of local concern for which biological control measures have been developed include knapweed, Mediterranean sage, bindweed (*Convolvulus arvensis*) and leafy spurge (*Euphorbia uralensis*). At least 14 different biological controls have been used to control knapweed, and two tephritid flies were found to reduce seed output on diffuse knapweed by 75% to 95% (DeLoach 1997).

The use of herbicides to control exotic species should be used only when all other options have proven futile and even then extreme care should be taken. The potential heath effects of herbicides coupled with the juxtaposition of Boulder grasslands with dense human populations, makes large-scale applications unadvisable. When herbicides are to be used, they should be used in conjunction with

management strategies to enhance native plant populations, or else the newly created openings in the vegetation are likely to be reinvaded by exotics (Hobbs and Humphries 1995, Luken 1997).

Specific Strategies

The plots that were described in Chapter III as being of highest quality should generally be maintained with the current management strategy (Figure 3.1). Because these areas have an especially high conservation value they should be monitored for changes in exotic plant cover and native plant richness. The moderate quality plots are where native plant communities are currently most at risk. The bulk of the management resources should be directed to these areas before the native communities become further degraded. The low quality plots have little conservation value and care should just be taken that they do not serve as exotic seed sources for more natural areas. These low quality areas are also prime candidates for future prairie restoration.

The North Boulder upland area is the best location for the initial reintroduction of bison. The presence of bison on Open Space not only makes ecological sense, but would also inspire more public support for the Open Space mission. Using bison as a management tool would be most effective if stocked at light to moderate densities and allowed to graze in large enclosures. Clements (1936) estimated that pre-settlement bison densities across the Great Plains were about 10/mi², although others have somewhat lower estimates. A good starting point would allow a herd of 20 on Boulder Valley Ranch and an additional 10 if the Beech property east of Foothills Highway was added. The agricultural fields northwest of

Boulder Reservoir could be revegetated and eventually added to the available grazing area.

The lowlands along the floodplain of South Boulder Creek are all areas of potential tallgrass prairie vegetation and should be managed for that purpose. The current areas of tallgrass prairie are all in moderate condition because they contain a significant component of exotic C₃ grasses. Most of these areas should be burned in the springtime on a three to five year rotation with careful monitoring for potential damage to native C₃ grasses and forbs. Small areas should be left unburned for experimental comparison. Winter grazing by cattle (or bison) could be continued, but the densities should be reduced.

The irrigated hayfields on the South Boulder Creek floodplain contain several tallgrass species with very low cover. These areas can be managed to encourage the spread of the tallgrass species at the expense of the C₃ graminoids. This could be accomplished through the elimination of mid-summer haying and a reintroduction of fire. There have been several successful tallgrass prairie restoration projects on the eastern Great Plains, but very little, if any, work has been done in Colorado. Since the tallgrass is such a valuable conservation resource, and restricted to such a small area, restoration efforts are very important (Kathleen Keeler, pers. Comm.).

The uplands on the mesas south of Boulder contain high quality grasslands. The main threat to these areas seems to be the replacement of the prairie by ponderosa pine forest. The controlled burning program to halt the invasion of the pines should be intensified and accompanied by appropriate physical thinning (axing) of saplings. The South Boulder region contains some large Open Space parcels. These areas also would make a good location for the reintroduction of bison. The area north of South Boulder Creek would be a good starting point, and an underpass or road crossing across Highway 170 would open up another large parcel in the Dowdy Draw area.

Two of the plots that I sampled (23 and 24) were on an abandoned wheat field that had been restored as a mixed-grass prairie. The results of the restoration were moderately successful. A matrix of native grasses has developed without a significant problem of exotic plants, which is likely due to the lack of nitrogen in the soil (judging from the yellowness of the grasses). What the community lacks is a native forb component. A second stage of restoration should be undertaken on the plots by adding seeds of native forbs.

The Boulder area is fortunate in that the population of Boulder has a strong conservation ethic, and the populace is even willing to pay extra taxes to preserve open spaces around their city. This is still a rare phenomenon in the United States. Unfortunately, the presence of the city and its population is damaging to the ecosystems that the population wishes to preserve. Aggressive management practices, coupled with public education may be the only way that the unique ecosystems of this area can be preserved.

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Appendix 1: List of species encountered in the study separated by plant functional type. Synonomies are shown between Great Plains Flora Association (1986) and Weber and Whitman (1996). N/A = Species not in Great Plains Flora.

Native Polycarpic C4 Graminoids

GP Flora (1986)	Weber and Whitman (1996)	Family
Andropogon gerardii		Poaceae
Aristida purpurea		Poaceae
Bouteloua curtipendula		Poaceae
Bouteloua gracilis	Chondrosum gracile	Poaceae
Bouteloua hirsuta	Chondrosum hirsutum	Poaceae
Buchloe dactyloides		Poaceae
Calamovilfa longifolia		Poaceae
Distichlis spicata	Distichlis stricta	Poaceae
N/A	Muhlenbergia wrightii	Poaceae
Muhlenbergia asperifolia		Poaceae
Muhlenbergia montana		Poaceae
Muhlenbergia racemosa	Muhlenbergia racemosa	Poaceae
Panicum virgatum		Poaceae
Andropogon scoparius	Schizachyrium scoparium	Poaceae
Schedonnardus paniculatus	, •	Poaceae
Sorahastrum nutans	Sorghastrum avenaceum	Poaceae
Spartina pectinata		Poaceae
Sporobolus airoides		Poaceae
Sporobolus asper		Poaceae
Sporobolus cryptandrus		Poaceae
Sporobolus heterolepis		Poaceae
•		

Native Polycarpic C₃ Graminoids

GP Flora (1986)	Weber and Whitman (1996)	Family
Carex heliophylla	Carex pensylvanica	Cyperaceae
Carex lanuginosa		Cyperaceae
Carex nebrascensis		Cyperaceae
Carex scoparia		Cyperaceae
N/A	Carex simulata	Cyperaceae
Carex praegracilis		Cyperaceae
Carex stipata		Cyperaceae
Carex brevior		Cyperaceae
Eleocharis compressa	Eleocharis elliptica	Cyperaceae
Eleocharis macrostachva	Eleocharis palustris	Cyperaceae
Scirpus acutus	Schenoplectus lacustris	Cyperaceae
Juncus balticus	Juncus arcticus	Juncaceae
Juncus longistylis		Juncaceae
Juncus nodosus		Juncaceae
Aamovma smithii	Pascopyrum smithii	Poaceae
Alonecuraus aequalis		Poaceae
Colomorpostis canadensis		Poaceae
Disonthelium scuminatum		Poaceae
Danthonia spicata		Poaceae

Native Polycarpic C₃ Graminoids (Cont.)

GP Flora (1986)	Weber and Whitman (1996)	Family
Givceria grandis		Poaceae
Hordeum jubatum	Critesion jubatum	Poaceae
Koeleria pyramidata	Koeleria macrantha	Poaceae
Orvzopsis hymenoides	Achnatherum hymenoides	Poaceae
Poa arida		Poaceae
Poa iuncifolia		Poaceae
Poa palustris		Poaceae
Poa sandbergii	Poa secunda	Poaceae
Sitanion hystrix	Elymus elymoides	Poaceae
Sitanion Iongifolius	Elymus longifolius	Poaceae
Stina comata	Hesperostipa comata	Poaceae
Stina neomexicana	Hesperostipa neomexicana	Poaceae
Stipa mbusta	Achnatherum robustum	Poaceae
Stipe robucce	Hesperostipa spartea	Poaceae
Stipa viridula	Nassella viridula	Poaceae

Native Monocarpic C₃ Graminoids

GP Flora (1986)	Weber and Whitman (1996)	Family
Cyperus aristatus		Cyperaceae
Juncus bufonius		Juncaceae
Dicapthelium olioosanthes		Poaceae
Festuca octoflora	Vulpia octoflora	Poaceae

Native Monocarpic Forbs

Weber and Whitman (1996)	Family
	Asteraceae
	Boraginaceae
Oreocarya virgata	Boraginaceae
	Boraginaceae
	Brassicaceae
	Brassicaceae
	Caryophylaceae
	Chenopodiaceae
	Chenopodiaceae
	Equisetaceae
Hippochaete laevigata	Equisetaceae
Agaloma marginata	Euphorbiaceae
Chamaesyce glyptosperma	Euphorbiaceae
Tithymalus spathulatus	Euphorbiaceae
	Weber and Whitman (1996) Oreocarya virgata Hippochaete laevigata Agaloma marginata Chamaesyce glyptosperma Tithymalus spathulatus

Native Monocarpic Forbs (Cont.)

Veber and Whitman (1996)	Family
	Hydrophylaceae
	Lamiaceae
	Lamiaceae
	Lamiaceae
	Lamiaceae
Epilobium paniculatum	Onagraceae
Suara mollis	Onagraceae
	Onagraceae
	Onagraceae
	Papaveraceae
	Plantaginaceae
	Polemoniaceae
pomopsis aggregata	Polemoniaceae
	Polygonaceae
	Primulaceae
Anagallis minima	Primulaceae
	Veber and Whitman (1996) Epilobium paniculatum Guara mollis Ppomopsis aggregata Anagallis minima

Native Polycarpic Forbs

GP Flora (1986)	Weber and Whitman (1996)	Family
Yucca dlauca	• •	Agavaceae
Alisma triviale		Alismataceae
Allium textile		Alliaceae
Phus ammatica		Anacardiaceae
Tovicodendron ordbernii		Anacardiaceae
lomatium orientale		Apiaceae
Lomanum onemaic		Apiaceae
		Asclepiadaceae
Asciepias engennanniana		Ascleniadaceae
Asciepias incarnala		Asclepiadaceae
Asciepias pumila		Ascleniadaceae
Asciepias speciosa		Acdeniadaceae
Asciepias stenopnylia		Accleniadaceae
Asclepias viridiflora		Adamaaaa
Achillea millefolium	Achillea Ianulosa	Asteraceae
Ambrosia trifida		Asteraceae
Ambrosia psilostachya		Asteraceae
Antennaria microphylla	Antennaria rosea	Asteraceae
Amica fulgens		Asteraceae
Artemisia dranunculus	Oligosporus dranunculus	Asteraceae
Artemisia frigida	-	Asteraceae
Artemisia campestris	Oligosporus pacificus	Asteraceae
Artemisia ludoviciana	• • •	Asteraceae
Aster falcatus	Viroulus falcatus	Asteraceae
Aster laevis	-	Asteraceae
	Aster norteri	Asteraceae
iwn Actor origoidae		Asteraceae
		Asteraceae
Chrysomamnus nauseosus		- Diciaveau

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Native Polycarpic Forbs (Cont.)

GP Flora (1986) Cirsium flodmanii Erigeron speciosus Gaillardia aristata Gutierrezia sarothrae Helianthus pumilus Helianthus rigidus Chrysopis villosa lva axillaris Kuhnia eupatoriodes Liatris punctata Lygodesmia juncea Haplopappus spinulosus Microseris cuspidata Solidago rigida Senecio pseudoaureas Picradeniopsis oppositifolia Ratibida columnifera Senecio integerimus Solidago missouriensis Senecio plattensis Senecio spartioides Solidago nemoralis Solidago mollis Solidago sparsiflora Solidago gigantea Thelesperma megapotamicum Townsendia exscapa Cryptantha jamesii Lithospermum incisum Mertensia lanceolata Onosmodium molle Barberea orthoceras Ervsimum asperum Lesquerella montana N/A Stanleya pinnata Coryphantha missouriensis Coryphantha vivipara Echinocereus viridiflorus Opuntia macromiza Opuntia fragilis Opuntia polyacantha Campanula rotundifolia Symphoricarpos occidentalis Arenaria fendleri Cerastium arvense Silene drummondii

Brickella eupatoriodes Machaeranthera pinnatifida Oligoneuron rigidum Packera pseudaurea

Heterotheca villosa

Weber and Whitman (1996)

Packera plattensis Hymenopappus filifolius Solidago nana

Solidago velutina

Oreocarya suffruticosa

Physaria bellii

Ergemone fendleri Cerastium strictum Gastrolychnis drummondii Family Asteraceae Boraginaceae Boraginaceae Boraginaceae Boraginaceae Brassicaceae Brassicaceae Brassicaceae Brassicaceae Brassicaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Cactaceae Campanulaceae Caprifoliaceae Caryophylaceae Caryophylaceae Caryophylaceae

Native Polycarpic Forbs (Cont.)

GP Flora (1986) Paronychia jamesii N/A Ceratoides lanata Atriplex canescens Tradescantia occidentalis Evolvulus nuttallianus Euphorbia fendleri Euphorbia robusta Tracia ramosa Атогрһа папа Astragalus adsurgens Astragalus bisulcatus Astragalus flexuosus Astragalus agrestis Astragalus drummondii Astragalus gracilis Astragalus shortianus Astragalus sericoleucus Dalea candida Dalea purpurea Glycynthiza lepidota Hedysarum boreale N/A Lupinus argenteus Oxytropis lambertii Oxytropis sericea Psoralea argophylla Psoralea tenuiflora Thermopsis divaricarpa Vicia americana N/A Iris missouriensis Sisyrinchium montanum Trialochin maritima Lycopus americanus Mentha arvensis Monarda fistulosa Prunella vulgaris Scutellaria brittonii Calochortus gunnisonii Leucocrinum montanum Smilacena stellata Zigadenos venenosus Linum perenne Mentzelia nuda N/A Sphaeralcea coccinea

Silene scoulerii Krascheninnikovia lanata

Weber and Whitman (1996)

Chamaesyce fendleri Tithymalus brachyceras

Orophaca tridactylica

Lathyrus eucosmus

Psoralidium argophyllum Psoralidium tenuiflorum

Geranium caespitosum

Maianthemum stellatum Toxicoscordion venenosum Adenolinum lewisii Nuttallia nuda Nuttallia speciosa Family Caryophylaceae Caryophylaceae Chenopodiaceae Chenopodiaceae Commelinaceae Convolvulaceae Euphorbiaceae Euphorbiaceae Euphorbiaceae Fabaceae Geraniaceae Iridaceae Iridaceae Juncaginaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Lamiaceae Liliaceae Liliaceae Liliaceae Liliaceae Linaceae Loasaceae Loasaceae Malvaceae

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Native Polycarpic Forbs (Cont.)

GP Flora (1986) Mirabilis hirsutus Mirabilis linearis Mirabilis nyctaginea Calylophus serrulatus N/A Gaura coccinea Oenothera howardii Orobanche fasciculata Eriogonum alatum Eriogonum brevicaule Eriogonum effusum Talinum parviflorum Lysmachia ciliata Clematis hirsutissima Delphinium virescens Ranunculus macounii Thalictrum dasycarpum Ceanothus herbaceus Ceanothus velutinus Potentilla fissa Potentilla gracilis Potentilla hippiana Prunus pumila Rosa arkansana Populus dettoides Salix exigua Comandra umbellata Castilleja sessiflora Penstemon angustifolius Penstemon gracilis Penstemon secundiflorus Veronica catenata Physalis hederaefolia Physalis heterophylla Physalis virginiana Lippia cuneifolia Verbena ambrosifolia Verbena hastata Hybanthus verticillatus Viola nuttallii

Weber and Whitman (1996) , Oxybaphus hirsutus Oxybaphus linearis Oxybaphus nyctagineus

Epilobium glandulosum

Oenothera howardii Aphylion fasciculatum Pterogonum alatum

Coriflora hirsutissima

Drymocallis fissa

Cerasus pumila

Phyla cuneifolia Glandularia bipinnatifida Family Nyctaginaceae Nyctaginaceae Nyctaginaceae Onagraceae Onagraceae Onagraceae Onagraceae Onagraceae Polygonaceae Polygonaceae Polygonaceae Portulacaceae Primulaceae Ranunculaceae Ranunculaceae Ranunculaceae Ranunculaceae Rhamnaceae Rhamnaceae Rosaceae Rosaceae Rosaceae Rosaceae Rosaceae Salicaceae Salicaceae Santalaceae Scrophulaceae Scrophulaceae Scrophulaceae Scrophulaceae Scrophulaceae Solanaceae Solanaceae Solanaceae Verbenaceae Verbenaceae Verbenaceae Violaceae Violaceae

Exotic Monocarpic C₄ Graminoids

GP Flora (1986) Panicum capillare Setaria glauca Weber and Whitman (1996)

Family Poaceae Poaceae

Exotic Monocarpic C₃ Graminoids

GP Flora (1986)	Weber and Whitman (1996)	Family
Aegilops cylindrica	Cylindropyrum cylindricum	Poaceae
Avena fatua		Poaceae
N/A	Briza media	Poaceae
Romus iaponicus		Poaceae
Bromus tectorum	Anisantha tectorum	Poaceae
Hordeum vulgare		Poaceae
l olium perenne		Poaceae
N/A	Triticum aestivum	Poaceae

Exotic Polycarpic C₃ Graminoids

GP Flora (1986) Juncus cerardii	Weber and Whitman (1996)	Family Juncaceae
Annovron cristatum		Poaceae
Agropyron repens	Elytrigia repens	Poaceae
Acrostis stolonifera	Agrostis gigantea	Poaceae
Bromus inermis	Bromopsis inermis	Poaceae
Dactvlis glomerata	-	Poaceae
Festuca pratensis		Poaceae
Phalaris arundinacea	Phalaroides arundinacea	Poaceae
Phieum oratense		Poaceae
Poa compressa		Poaceae
Poa oratensis		Poaceae

Exotic Monocarpic Forbs

GP Flora (1986)	Weber and Whitman (1996)	Fai
Daucus carota		Ap
Ambrosia artemisiifolia		Ast
Arctium minus		As
Carduus nuttans		As
Centaurea diffusa	Acosta diffusa	As
Cirsium vulgare		As
Conyza canadensis		As
lva xanthifolia	Cyclachaena xanthifolia	As
Lactuca serriola		As
Scorzonera laciniata	Podospermum lacinatum	As
Sonchus asper		As
Tragopogon dubius		As
Tragopogon porrifolius		As
Cynoglossum officinale		Bo
Alyssum minus	Alyssum parviflorum	Br
Arabis glabra	Turritis glabra	Br
Camelina microcarpa		BI
Capsella bursa-pastoris		B
Chorispora tenella		B
Conringia orientalis		B
Descurainia sophia		B

mily iaceae teraceae teraceae teraceae teraceae steraceae steraceae steraceae steraceae steraceae steraceae steraceae steraceae oraginaceae rassicaceae rassicaceae rassicaceae rassicaceae rassicaceae rassicaceae rassicaceae

Exotic Monocarpic Forbs (Cont.)

GP Flora (1986) Lepidium campestre Lepidium densiflorum Brassica kaber Sysimbrium altissimum Thlaspi arvense Triodanis perfoliata Silene antimhina Chenopodium album Kochia scoparia Salsola iberica Dipsacus fullonum Euphorbia serpyllifolia Euphorbia dentata Medicago lupulina Melilotus albus Melilotus officinale Erodium cicutarium N/A Malva neglecta Polygonum convolvulus Polygonum persicaria N/A Gallium aparine Verbascum thapsus Veronica peregrina N/A Solanum rostratum Solanum triflorum Verbena bracteata Viola rafinesquii

Exotic Polycarpic Forbs

GP Flora (1986) Pastinacea sativa Apocynum cannabinum Asparagus officinalis Cichorium intybus Cirsium arvense Taraxacum officinale Cardaria chalepensis Lepidium latifolium Cerastium vulgatum Dianthus armeria Saponaria officinalis N/A Convolvulus arvensis Weber and Whitman (1996) Neolepia campestre

Sinapis arvensis

Bassia sieversiana Salsola australis

Chamaesyce serpyllifolia Poinsettia dentata

Salvia aethiopis

Fallopia convolvulus Persicaria maculata Polygonum argyrocoleon

Solanum physalifolium

Viola kitaibeliana

Weber and Whitman (1996)

Breea arvensis

Cardaria latifolia Cerastium fontanum

Spergularia media

Family Brassicaceae Brassicaceae Brassicaceae Brassicaceae Brassicaceae Campanulaceae Caryophylaceae Chenopodiaceae Chenopodiaceae Chenopodiaceae Dipsacaceae Euphorbiaceae Euphorbiaceae Fabaceae Fabaceae Fabaceae Geraniaceae Lamiaceae Malvaceae Polygonaceae Polygonaceae Polygonaceae Rubiaceae Scrophulaceae Scrophulaceae Solanaceae Solanaceae Solanaceae Verbenaceae Violaceae

Family Apiaceae Apocynaceae Asparagaceae Asteraceae Asteraceae Brassicaceae Brassicaceae Caryophylaceae Caryophylaceae Caryophylaceae Caryophylaceae Caryophylaceae Caryophylaceae Caryophylaceae Caryophylaceae

Exotic Polycarpic Forbs (Cont.)

GP Flora (1986) Elaeagnus angustifolia Coronilla varia Lotus tenuis Medicago sativa Trifolium fragiferum Trifolium hybribum Trifolium pratense Trifolium repens Hypericum perforatum Marrubium vulgare Nepeta cataria Plantago lanceolata Plantago major Rumex acetosella Rumex crispus Linaria dalmatica Ulmus pumila

Family Weber and Whitman (1996) Eleagnaceae Fabaceae Securigera varia Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Fabaceae Hypericaceae Lamiaceae Lamiaceae Plantaginaceae Plantaginaceae Polygonaceae Acetosella vulgaris Polygonaceae Scrophulaceae Linaria genistifolia Ulmaceae

Appendix 2: Plant species compostion of the eight dominant grassland communities. SF is the summed-frequency of each species. N is the number of quadrats.

35%

22%

17%

16%

16%

16% 15%

14%

13% 13%

13%

10% 10%

10% 9%

9%

8%

8% 8%

8%

8% 7%

7%

6% 6%

6%

5%

5% 5%

4%

3%

3%

3%

3%

3%

Shale N=71

SF **Native species** 53% Linum perenne 52% Aristida purpurea 51% Bouteloua curtipendula 49% Helianthus pumilus 44% Evolvulus nuttallianus 36% Bouteloua gracilis Andropogon gerardii 32% Stipa comata 27% Stipa neomexicana 27% Psoralea tenuiflora 25% Lesquerella montana Artemisia frigida 24% 23% Gutierrezia sarothrae Astragalus sericoleucus Eriogonum brevicaule Senecio spartioides Agropyron smithii Comandra umbellatum Thelesperma megapotamicum Sitanion longifolium Stipa viridula Physaria bellii Viola nuttallii Ambrosia psilostachya Artemisia ludoviciana Gaura coccinea Musineon divaricatum Hybanthus verticillatus Grindelia squarrosa Chrysopis villosa Euphorbia robusta Oxytropis lambertii Liatris punctata Erysimum asperum Dalea purpurea Senecio plattensis Opuntia macrorhiza Ratibida columnifera Gaillardia aristata Dalea candida Vicia americana Oryzopsis hymenoides Allium textile Cirsium undulatum Oenothera howardii Bouteloua hirsuta Aster falcatus

Exotic species	SF
Alyssum minus	90%
Bromus japonicus	69%
Tragopogon dubius	34%
Centaurea diffusa	8%
Camelina microcarpa	4%
Convolvulus arvensis	2%
Carduus nuttans	2%
Scorzonera laciniata	2%
Bromus tectorum	1%
Poa compressa	1%
Taraxacum officinale	1%
Lactuca serríola	0%

Appendix 2: Plant species compostion (cont.)

	Shale (Co	ont.)	
Native species	SF	Exotic species	SF
Townsendia exscapa	3%		
Paronychia jamesii	3%		
Tragia ramosa	3%		
Astragalus drummondii	3%		
Andropogon scoparius	2%		
Rhus aromatica	2%		
Draba reptans	2%		
Eriogonum alatum	2%		
Koeleria pyramidata	2%		
Cryptantha jamesii	2%	-	
Coryphantha vivipara	2%		
Buchloe dactyloides	1%		
Yucca glauca	1%		
Dyssodia papposa	1%		
Coryphantha missouriensis	1%		
Scutellaria brittonii	1%		
Leucocrinum montanum	1%	•	
Sphaeralcea coccinea	1%		
Argemone polyanthemos	· 1%		
Prunus pumila	1%		
Asclepias pumila	0%	-	
Artemisia dranunculus	0%		
Euphorbia fendleri	0%		
Calochortus gunnisonii	0%		
Penstemon secundifiorus	0%		

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Appendix 2: Plant species compostion (cont.)

Appendix 1. Construction of the	Shortgra	ass N=279
Native species	SF	Exotic species
Agrony on smithi	83%	Bromus japonicus
Agropyron sinkin Poutelous gracilis	59%	Alyssum minus
Buchice dactyloides	38%	Bromus tectorum
Sobaeralcea coccinea	33%	Convolvulus arvensis
Adomisia frinida	30%	Erodium cicutarium
Plantan natannica	27%	Tragopogon dubius
Asta purpures	20%	Centaurea diffusa
Ansida purpurca Describes tenuitiona	17%	Scorzonera laciniata
Actor falcatus	13%	Lepidium densiflorum
Linum perenne	13%	Camelina microcarpa
Cutierrezia samthrae	11%	Poa pratensis
Stina comata	10%	Poa compressa
Artemisia Iudoviciana	8%	Lepidium campestre
Charconis villosa	8%	Plantago lanceolata
Boutelous cutinendula	8%	Silene antimhina
Bouleiona cumpendara	8%	Sysimbrium altissimum
Festuca ucionida	8%	Taraxacum officinale
	7%	Verbena bracteata
	7%	Lactuca serriola
	7%	Bromus inermis
Poa sandbergii	6%	Melilotus officinale
Sporobolus cryptandrus	6%	Hypericum perforatum
Grindella squarrosa	6% 6%	Hordeum vulgare
Opuntia macromiza	5%	Veronica pereorina
	5%	Carduus nuttans
Artennisia uranunculus	5%	Cichorium intybus
Admaslus daummondii	4%	
Astragalus diuminondii	4%	
Sitanion nysuix Stine viridula	4%	
	4%	
Evolvulus nuclananus	3%	
	3%	
	3%	
Liams punctala	394	
Descurania pinnata	304	
Opunna polyacanina Obasesedium dessiestum	3%	
	3 A 24	
	270	
Ratibida columnitera	270	
Sitanion longitollus	270	
Heliantinus pumilus	270	
Hapiopappus spinulosus	270	
Comandra umbellata	270	
Draba reptans	∠%	
Echinocereus viridifiorus	2%	
Astragalus flexuosus	2%	
Yucca glauca	7%	
Achillea millefolium	1%	
Artemisia campestre	1%	

SF 64% 58% 37% 29%

> 23% 21% 20% 17% 7% 7% 6% 5% 4% 4% 4% 3% 3% 2% 2% 1% 1% 1% 1% 1% 1% 1%

Appendix 2: Plant species compostion (cont.) - - -

	Shortgra	Shortgrass (Cont.)		
Native species	SF	Exotic species	SF	
Opuntia fragilis	1%			
Astragalus sericoleucus	1%			
Oxytropis lambertii	1%			
Ambrosia psilostachya	1%			
Chrysothamnus nauseosus	1%		-	
Eriogonum effusum	1%			
Lomatium orientale	1%			
Euphorbia glyptosperma	1%			
Androsace occidentalis	1%			
Orvzopsis hymenoides	1%			
Asclepias pumila	1%			
Lesquerella montana	1%			
Monarda pectinata	1%			
Leucocrinum montanum	1%			
Helianthus anuus	1%			
Corvphantha missouriensis	1%		2. *	
Penstemon secundiflorus	1%		-	
Hybanthus verticilatus	1%			
Viola nuttallii	1%			
l voodesmia iuncea	1%			
Orobanche fasciculatum	1%		•	
Polyoonum douglasii	1%			
Delphhinium virescens	1%			

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Appendix 2: Plant species compostion (cont.)

Mixed-grass/Foothills N=111

Native species	SF	Exotic species
Acropyron smithii	82%	Bromus japonicus
Artemisia ludoviciana	69%	Alyssum minus
Aster falcatus	57%	Tragopogon dubius
Carex heliophylla	46%	Poa pratensis
Ambrosia psilostachya	44%	Lactuca serriola
Psoralea tenuiflora	34%	Poa compressa
Liatris punctata	24%	Bromus tectorum
Andropogon gerardii	19%	Carduus nuttans
Bouteloua gracilis	19%	Taraxacum officinale
Rosa arkansana	14%	Lepidium campestre
Erigeron divergens	13%	Bromus inermis
Stipa viridula	11%	Convolvulus arvensis
Opuntia macromiza	11%	Erodium cicutarium
Viola nuttaliii	11%	Silene antimhina
Koelaria pyramidata	11%	Camelina microcarpa
Astragalus agrestis	11%	Sysimbrium altissimum
Linum perenne	11%	Scorzonera laciniata
Artemisia dranunculus	10%	Conringia orientalis
Achillea millefolium	· · 9%	Plantago lanceolata
Gutierrezia sarothrae	9%	Linaria dalmatica
Astragalus flexuosus	8%	Rumex acetosella
Aster porteri	8%	Cichorium intybus
Cerastium arvense	7%	Lepidium densiflorum
Astragalus drummondii	7%	
Stipa spartea	7%	
Sphaeralcea coccinea	6%	
Lupinus argenteus	5%	
Grindelia squarrosa	5%	
Bouteloua gracilis	5%	
Lomatium orientale	4%	
Symphoricarpos occidentalis	4%	
Tragia ramosa	4%	
Yucca glauca	4%	
Vicia americana	4%	
Ratibida columnifera	4%	
Mertensia lanceolata	4%	
Solidago nemoralis	3%	
Buchloe dactyloides	3%	
Scutellaria brittonii	3%	
Asclepias pumila	2%	
Evolvulus nuttalianus	2%	
Stipa comata	2%	
Senecio plattensis	2%	
Physalis hederaefolia	2%	
Artemisia frigida	2%	
Cirsium undulatum	2%	
Onosmodium molle	2%	
Erysimum asperum	2%	

98

SF

80% 56% 46% 43% 18% 16% 11% 8% 6%

6%

4% 4%

4% 4% 3%

3%

2%

2% 1%

1% 1% 1% 1%

;

Appendix 2:	Plant	species	composition	(cont.)
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Mixed-grass/Foothills (Cont.)

Native species	SF	Exotic species
Euphorbia spatheolata	2%	
Thelesperma divaricarpa	2%	
Androsace occidentalis	2%	
Sporobolus asper	2%	
Plantago patagonica	2%	
Eriogonum alatum	2%	
Aristda purpurea	1%	
Chrysothamnus nauseosus	1%	
Gaura coccinea	1%	
Muhlenbergia montana	1%	
Andropogon scoparius	1%	
Allium textile	1%	•
Helianthus rigidus	1%	
Opuntia fagilis	1%	
Cerastium nuttans	1%	
Tradescantia occidentalis	1%	
Leucocrinum montanum	1%	
Zigadenos venenosus	1%	
Penstemon secundifiorus	1%	
Helianthus pumilus	1%	
Chrysopis villosa	1%	
Calochortus gunnisonii	1%	
Mirabilis linearis	1%	
Polygonum douglasii	1%	

99

SF

Appendix 2: Plant species compostion (cont.)

Mixed-grass/Mesas N=197

Native species	SF	Exotic species	SF
Andronogon gerardii	61%	Bromus japonicus	57%
Carex heliophylla	58%	Poa compressa	42%
Bouteloua gracilis	49%	Tagopogon dubius	33%
Stina comata	46%	Poa pratensis	21%
Psoralea tenuiflora	42%	Alyssum minus	20%
Ambrosia psilostachva	41%	Silene antimhína	13%
Koeleria pyramidata	34%	Bromus tectorum	13%
Routeloua curtipendula	33%	Lepidium densiflorum	12%
Liatris ounctata	26%	Camelina microcarpa	12%
Panicum virgatum	25%	Cichorium intybus	8%
Aster porteri	22%	Rumex acetosella	8%
Chrysopis villosa	22%	Hypericum perforatum	6%
Sitanion longifolium	20%	Plantago lanceolata	5%
Andropogon scoparius	18%	Taraxacum officinale	4%
Opuntia macrorhiza	18%	Lepidium campestre	3%
Arenaria fendleri	18%	Sysimbrium altissimum	3%
Tragia ramosa	16%	Dianthus armeria	2%
Echinocereus viridiflorus	15%	Hordeum vulgare	2%
Aster falcatus	14%	Convolvulus arvensis	2%
Dalea numurea	14%	Lactuca serriola	1%
Buchloe dactvloides	13%	Daucus carrota	1%
Artemisia Iudoviciana	13%	Dactylis glomerata	1%
Artemisia campestris	13%	Scorzonera laciniata	1%
Lesquerella montana	11%	Agrostis stolonifera	1%
Sorghastrum nutans	10%	Trifolium hybridum	1%
Artemisia frigida	10%	Phleum pratensis	1%
Sporobolus asper	10%	Trifolium reptans	1%
Oxalis dillenii	9%	Chenopodium album	1%
Plantago patagonica	9%		
Eriogonum alatum	8%		
Erigeron divergens	8%		
Muhlenbergia wrightii	7%		
Gutierrezia sarothrae	6%		
Erysimum asperum	6%		
Paronychia jamesii	6%		
Allium textile	5%		
Yucca glauca	5%		
Aristida purpurea	5%		
Helianthus annuus	5%		
Chenopodium dessicatum	4%		
Schedonardus paniculatus	4%		
Festuca octoflora	4%		
Bouteloua hirsuta	4%		
Antennaria microphylla	4%		
Cirsium undulatum	4%		
Gaillardia aristata	4%		
Senecio plattensis	4%		
Potentilla fissa	4%		

Mixed	-grass/Me	esas (Cont.)	
Native species	SF	Exotic species	SF
Linum perenne	4%	•	
I omatium orientale	3%		
Descurania pinnata	3%		
Oxvtropis lambertii	3%		
Onosmodium molle	3%		
Talinum parviflorum	3%		
Draba reptans	3%		
Ratibida columnifera	3%		
Kuhnia eupatriodes	3%		
Silene scoulerii	3%	·	
Agropyron smithii	2%		
Comandra umbellatum	2%		
Juncus balticus	2%		
Monarda pectinata	2%		
Calylophus serrulatus	2%		
Viola nuttallii	2%		
Muhlenbergia montana	2%		
Evolvulus nuttalianus	2%		
Mirabilis linearis	· `2%		
Senecio spartioides	1%		
Coryphantha missouriensis	1%		
Dalea candida	1%		
Juncus longistylus	1%		
Potentilla gracilis	1%		
Solidago mollis	1%		
Mertensia lanceolata	1%		
Astragalus flexuosus	1%		
Dicanthelium oligosanthes	1%		
Opuntia fragilis	1%		
Tradescantia occidentalis	1%		
Euphorbia robusta	1%		
Grindellia squarrosa	1%		
Poa sandbergii	1%		
Asclepias engelmanniana	1%		
Helianthus rigidus	1%		
Rosa arkansana	1%		
Euphorbia spatheolata	1%		
Phacelia heterophylla	1%		
Leucocinum montanum	1%		
Lupinus argenteus	1%		
Astragalus shortianus	7%		
Musineon divaricatum	1%		
Helianthis pumilus	1%		
Cryptantha jamesii	1%		
Chrysopis villosa	1%		
Symphonicarpos occidentalis	1%		
Equisetum laevigatum	1%		
Sisyrinchium montanum	1%		

.
Appendix 2: Plant species compostion (cont.) Mixed-grass/Mesas (Cont.)

Native species	SF	Exotic species	SF
Polygonum douglasii	1%		

Xeric Tallgrass N=65

Native species	SF	Exotic species	SF
Andropogon gerardii	82%	Poa pratensis	70%
Ambrosia psilostachya	65%	Plantago lanceolata	61%
Andropogon scoparius	25%	Bromus japonicus	55%
Carex heliophylla	22%	Cichorium intybus	45%
Grindellia squarrosa	21%	Poa compressa	38%
Bouteloua gracilis	18%	Taraxacum officinale	32%
Aster falcatus	18%	Convolvulus arvensis	27%
Juncus balticus	17%	Dianthus armeria	25%
Psoralea tenuiflora	14%	Lotus tenuis	17%
Sporobolus asper	13%	Alyssum minus	16%
Erigeron divergens	11%	Rumex crispus	14%
Dalea candida	10%	Dactylis glomerata	12%
Bouteloua curtipendula	10%	Trifolium pratensis	12%
Carex praegracilis	10%	Tagopogon dubius	10%
Sorghastrum nutans	8%	Melilotus officinale	10%
Buchloe dactyloides	7%	Conyza canadensis	10%
Oxalis dillenii	7%	Lepidium densiflorum	9%
Aster porteri	6%	Erodium cicutarium	9%
Panicum virgatum	6%	Lactuca serriola	8%
Artemisia frigida	6%	Festuca pratensis	8%
Ratibida columnifera	5%	Lepidium campestre	8%
Agropyron smithii	5%	Agrostis stolonifera	8%
Festuca octofiora	5%	Trifolium hybridum	7%
Carex nebraskensis	4%	Rumex acetosella	7%
Opuntia macrorhiza	4%	Phleum pratensis	6%
Lupinus argenteus	4%	Silene antimhina	6%
Achillea millefolium	4%	Juncus gerardii	4%
Hordeum jubatum	4%	Medicago lupulina	4%
Juncus longistylus	3%	Bromus tectorum	3%
Bouteloua hirsuta	3%	Scorzonera laciniata	2%
Sitanion hystrix	3%	Cirsium arvense	2%
Artemisia ludoviciana	2%	Melilotus alba	1%
Asclepias speciosa	2%	Camelina microcarpa	1%
Sitanion longifolium	2%	Hypericum perforatum	1%
Dalea purpurea	2%	Trifolium reptans	1%
Aristida purpurea	2%	Carduus nuttans	1%
Potentilla gracilis	2%	Polygonum argyrocoleon	1%
Rosa arkansana	2%	Verbascum thapsus	1%
Sporobolus cryptandrus	2%		
Thermopsis divaricarpa	2%		
Lippia cuneifolia	2%		
Stipa comata	1%		
Plantago patagonica	1%		
Allium textile	1%		
Asclepias viridifolia	1%	•	
Distichlis spicata	1%		
Koeleria pyramidata	1%		
Chrysopis villosa	1%		

Xeric Tall	grass (Cont.)	
SF	Exotic species	SF
1%		
1%		
1%		
1%		
1%		
1%		
1%		
	Xeric Tall SF 1% 1% 1% 1% 1% 1%	Xeric Tallgrass (Cont.) SF Exotic species 1% 1% 1% 1% 1% 1% 1% 1%

. . . .

Mesic Tallgrass N=153

Native species	SF	Exotic species	SF
Native species	64%	Plantago lanceolata	72%
Andmonoon gerardii	40%	Poa pratensis	51%
Andropogon geraron	36%	Poa compressa	51%
Sombostar nutans	34%	Taraxacum officinale	39%
Sugasti un nutans	32%	Trifolium oratense	37%
Arter falcatus	32%	Festuca pratensis	37%
Asici laicalus	29%	Phleum pratense	35%
Dicenthelium olicosanthes	29%	Convolvulus arvensis	32%
Drumella vulgaris	21%	Agrostis stolonifera	30%
Ambreia peilostachva	16%	Cichorium intybus	20%
Rosa arkansana	14%	Bromus japonicus	15%
Andronogon sconarius	13%	Dactvlis glomerata	10%
Psoralea tenuiflora	13%	Melilotus officianale	10%
Carex praepracilis	11%	Medicago lupulina	9%
Equisetum laevinatum	9%	Daucus carota	8%
Carex Januainosa	9%	Cirsium arvense	7%
Achilea millefolium	8%	Diathus armeria	4%
Agrovron smithi	7%	Apocynum cannabinum	3%
Ager norteri	7%	Bromus inermis	3%
Sverinchium montanum	7%	Alyssum minus	2%
luncus balticus	6%	Tragopogon dubius	2%
Asclenias speciosa	6%	Melilotus albus	2%
Ratibida columnifera	5%	Rumex acetosella	2%
Iris missouriensis	5%	Lotus tenuis	2%
Fleocharis macrostachva	5%	Lepidium campestre	2%
Buchloe dactvloides	4%	Rumex crispus	1%
Potentilla gracilis	4%	Trifolium hybridum	1%
Muhlenbergia montana	4%	Lactuca serriola	1%
Bouteloua gracilis	4%	Juncus gerardii	1%
Senecio spartioides	3%	Centaurea diffusa	1%
Opuntia macrorhiza	2%	Trifolium repens	1%
Erigeron divergens	2%		
Carex brevior	2%		
Carex stipata	2%		
Carex heliophylla	2%		
Bouteloua curtipendula	2%		
Muhlenbergia asperifolia	1%		
Grindelia squarosa	1%		
Musineon divaricatum	1%		
Ranunculus macounii	1%		
Artemisia frigida	1%		
Symphoricarpos occidentalis	1%		
Festuca octoflora	1%		
Artemisia ludoviciana	1%		
Asclepias viridiflora	1%		
Distichlis spicata	1%		
Oxalis dilenii	1%		
Asclepias stenophylla	1%		

Appendix 2: Plant species compostion (cont.) Mesic Tallgrass (Cont.)

		•	
Native species	SF	Exotic species	SF
Senecio plattensis	1%		
Sitanion hystrix	1%		

Irrigated Meadow N=65

Native species	SF	Exotic species	SF
Juncus balticus	67%	Festuca pratensis	63%
Eleocharis compressa	58%	Poa pratensis	51%
Carex praegracilis	35%	Trifolium hybridum	48%
Carex nebraskensis	35%	Taraxacum officinale	34%
Juncus longistylis	18%	Agrostis stolonifera	30%
Triglochin maritima	16%	Phleum pratensis	22%
Panicum virgatum	11%	Trifolium pratensis	18%
Carex lanuginosa	10%	Lotus tenuis	16%
Eleocharis macrostachya	10%	Trifolium fragiferum	14%
Sisyrinchium montanum	6%	Polygonum persicaria	12%
Cyperus aristata	6%	Plantago lanceolata	10%
Ranunculus macounii	5%	Bromus japonicus	8%
Juncus nodosus	4%	Ambrosia artemisifoila	8%
Agropyron smithii	4%	Poa compressa	8%
Equisetum laevigatum	4%	Cichorium intybus	7%
Polygonum douglasii	2%	Rumex crispus	7%
Alopecurus aequalis	2%	Juncus gerardii	6%
Spartina pectinata	2%	Agropyron repens	5%
Prunella vulgaris	2%	Dactylis glomerata	3%
Hordeum jubatum	1%	Lepidium campestre	2%
Aster falcatus	1%	Trifolium repens	2%
		Plantago major	2%
		Convolvulus arvensis	1%
		Daucus carrota	1%

Apocynum cannabinum

Cirsium arvense

Veronica peregrina

1%

1%

1%

Appendix 3: Cover and frequency of all species on all 68 plots during each sampling period 1994-1996.

	Key to Fields
<u>Column</u> 1	Plot number (see Table 2.1 and Fig. 2.1)
2	Species name (also bare ground, litter and unknown)
3	Origin of species e = exotic n = native u = unknown
4	Life history of species m = monocarpic p = polycarpic u = unknown
5	Part94 = Summed frequency of 12 nested quadrats to the west of the plot center, sampled in 1994 (for comparison to July95 and July96)
6	July95 = Summed frequency of 12 nested quadrats to the west of the plot center, sampled in July 1995
7	July95 = Summed frequency of 12 nested quadrats to the west of the plot center, sampled in July 1996
8	All94 = Summed frequency of 50 nested quadrats (25 west and 25 east of the plot center), sampled in 1994
9	June95 = Percent cover of 300 points sampled at 50 stations (25 west and 25 east) in June 1995
10	June96 = Percent cover of 300 points sampled at 50 stations (25 west and 25 east) in June 1996
11	Aug95 = Percent cover of 300 points sampled at 50 stations (25 west and 25 east) in August 1995
12	Aug96 = Percent cover of 300 points sampled at 50 stations (25 west and 25 east) in August 1996
13	IMP = Importance value, calculated as the average of the relative values of columns 6 through 12

Арр	endix 3 (Cont.)						Inte Dro	600	, 1		% Cove				
				Darto		b of Quar	lub/96	TAIL	<u>94</u>	June95	June96	Aug9	5 Au	g96	MP
Plot	Species		_	Parts 01	79	100.0%	97.2%	8	7.3%	6.2%	5.3%	8.0	×	5.3%	13.4%
_1	Agropyron smithi	11	2	60	A94	61 1%	75.0%	6	0.0%	3.6%	2.3%	3.8	<u>%</u>	5.3%	8.5%
-1	Artemista locoviciaria	1	2	41	7%	52.8%	66.7%	3	6.7%	5.8%	4.3%	3.5	× _ 2	2.0%	7.7%
		le le	Ē	100	0%	100.0%	77.8%	8	9.3%	1.6%	3.3%				5.7%
	And anone ana fil	ň	D	13	9%		2.8%	2	8.0%	1.3%	2.0%	5.1	%	3.0%	4.4%
	Vince dialice	In	D	8	3%	13.9%	5.6%	1	4.0%	2.3%	2.3%	3.5	<u>× </u>	1.3%	3./%
	Processing tenuifiora	In	D	44	.4%	30.6%	25.0%	2	8.7%		1.0%	42	<u>×</u>	1.0%	3.37
		e	m	25	.0%	33.3%	50.0%	4	5.3%	2.3%	1.3%		_ _		3.170
	Heterotheca villosa	In	P	13	.9%	2.8%	2.8%	2	1.3%	1.0%	2.6%	3.2		1.0%	3.070
1	Tracepoon dubius	e	m	47	.2%	44.4%	50.0%	5 3	0.7%	0.6%	1.6%	0.3			2.07
1	Bromus tectorum	e	m	38	.9%	25.0%	22.29	6 1	2.7%	5.2%			_	4 004	2.5%
1	Aster faicatus	n	P	38	.9%	47.2%	27.89	611	6.0%	0.6%	0.7%	0.0	2	1.0%	2.5 %
1	Poa compressa	e	P	30	.6%	19.4%	22.29	6 2	1.3%	1.0%	0.77	1.0		1 294	2 3 4
1	Hefianthus rigidus	n	P				8.39	61 1	3.3%	1.376	2.0%			1.5 %	21%
1	Poa pratensis	•	P	2	.8%	19.4%	33.39	41	5.3%	2.5%	1.00	1	~	1 3%	2.0%
1	Ambrosia psilostachya	n	P	25	5.0%	19.4%	27.89	41	8.0%	0.28	0.79			0.3%	1.6%
1	Erigeron divergens	п	m	27	.8%	16.7%	25.09	9 3	50.7%	0.376	0.7 *	1 13		10%	1.6%
1	Tragia ramosa	n	p			19.4%	19.49	뛰		0.370	0.79	+	<u> </u>	1.0	1.5%
1	Cerastium arvense	In	P	27	.8%	30.6%	30.69	붜	10./7	0.37	1.0	1 1	396	0.7%	1.5%
1	Rosa arkansana	In	P.	1 1	5.9%	13.9%	2.09		10.770	0.07	1 09	1 1	5%	0.3%	1.3%
1	Liatris punctata	n	Į₽.	11	1.1%	11.1%	1 1 1 1	2	26 74	<u> </u>	0.79	it		0.7%	1.2%
	Koeleria macrantha	<u></u>	Į₽.	1 1	5.7%	0.370	10.49		18 7%	0.3%	0.39	6		0.3%	1.1%
1	Opuntia macrorhiza	10	P	1 <u>2</u>	070	0.204	2.47	ž-	2.7%	0.6%	1.09	6 0.	3%		0.9%
1	Bouteloua curtipendula	10	1P	<u> </u>	- 001	16 7%	10 4		9.3%			0	3%	0.3%	0.9%
1	Gutierrezia sarothrae	-10	P		0.070	9 394	36.10	<u>, 1</u>	12 7%		<u> </u>		-		0.9%
1	Lactuca serriola	-10	10		2.04	33 394	830	ΞŦ-	11.3%		0.39	6			0.9%
	Vicia americana	10	IP.		2.970	8 394	5.6	χł.	28.7%	0.6%	0.39	6			0.9%
1	Linum usitatissimum	-19			2.070	0.0 %	3.5	~†	20.0%	1.3%	1				0.7%
	Lomatium oriental	-+-	IP.	<u> </u>	J.O 70	- 11 196	16.7	*	7.3%		0.39	6			0.7%
	Aster porten	-17	HP.	+	5 6%	5.6%	11.19	ŝ†-	13.3%	1.09					0.7%
	Astragalus agrestis	-	1P	+	5.0 /	8.39	<u></u>	7	6.0%	0.69	0.39	60.	3%		0.6%
	Bouteloua gracins	-#	12	+	1 1 96	8.39	11.1	%	7.3%	0.39	5	0	3%		0.6%
	Artemisia mgida	÷	1	. '		11.19	5.6	1	3.3%			0	6%		0.5%
	Cirsium undulatum	-ť.		1 3	3.3%	19.49	1	╈	14.7%						0.5%
			1.		6 7%	11.19	8.3	%	4.0%			0	.3%		0.5%
	Convolvulus arvensis	÷		+		1	1		5.3%	5	0.7	<u>%</u> 0	.6%		0.5%
-	Astragalus nexocosos	-ti			2.8%				6.7%	1.09	6	0	.3%		0.5%
	Astragalos di Uninici dal	-ti			1.1%	13.99	6 13.9	%	6.7%	5					0.5%
	Eriogonum eletum	Ť			1.1%	5.69	6 8.3	%	11.3%	6			.3%		0.5%
-	1 Prostamon secundifiorus	-ti	n le	5 1	6.7%	2.89	6		18.79	6			.6%		0.5%
	1 Ademisia dranunculus		n ir	5							0.3	<u>% 1</u>	.0%		0.4%
	1 Sysimbrium elfissimum	1	9 6	n		16.79	6		<u>6.79</u>	6		+			0.4%
	1 Gaura coccinea		n le		6.7%		2.8	1%	14.79	6 0.3	<u>×</u>	ᆐᅳ	1.07	0.30	0.4%
	1 Drymocallis fissia	Τ	n jr	5				_	0.79	<u>6 0.3</u>		<u>~</u>		10.0	6 0.970 6 0.4%
	1 Physalis hederaefolia		n Is			5.69	6 11.1	1%						0.3	0.72
	1 Stipa comata	\Box	n j	>		+		-+					+	0.30	6 0.3%
	1 Stipe viridute		n j	2		. <u> </u>	╇	 	4 74	<u>_</u>	-		394	3.5	0.3%
	1 Grindelia squarrosa		<u>n </u>	<u></u>	2.89			쯺	4.17	[-+	<u> </u>	<u>~~~</u>	03	× 0.3%
	1 Ratibida columnifera		nļ	<u>e</u>	5.69	2.8	<u>.c a</u>	~	9./	2 		-+-			0.3%
	1 Euphorbia spathulata	_	n	m	5.69	屿		-+	29.1	~			1.0%		0.3%
	1 Phacelia heterophylla	_	n li	<u></u>	0.00	. 			7 20	8 03	%				0.3%
Γ	1 Leucocrinum montanum		<u>n</u>	₽┨	8.39		x 3.	270	8.0	x 03		-1-			0.39
	1 Viola nuttallii	_	n	<u>P </u>	0.34	2.0	~ 4.0	~~	80	6 03	%	+			0.29
	1 Aristide purpurea	_		<u> - -</u>	10 44	2 	+		12 7	<u>s</u>	<u> </u>	-1-			0.29
	1 Allium textile	_		<u>-</u>	13.47	•	+							0.3	% 0.29
	1 Asclepias pumila	_	-	<u> 2</u>			+					-1-		0.3	% 0.29
Ĺ	1 Asciepias stenophylia		빤	<u> - † </u>	2 90	<u>_</u>	5	6%	4.7	%	-1				0.29
L	1 Podospermum lacinatum		H		16 70	×	- <u> </u> -		12.0	%	-1	-1-			0.29
L	1 Descuraima soprila	_	믬		10.7	~		-	33	% 0.	3%		0.3%		0.29
L	1 Paronychia jamesii		쁽	<u>_</u> +-		+			2.7	%	0	3%			0.29
L	1 Evolutius nuttananus	_	뿨	<u> </u>		+		_	33	196	0	3%			0.2
L		_	뿨	<u>- 1 -</u>	5 6	%	+		10.0	96			0.3%		0.2
L			造	Ľ <u>−</u>		<u>~</u> {	2	.8%	1					0.	3% 0.2
F	1 Oenomera brachycarpa		붋	<u></u>	28	8 111	8		0.7	1%					0.2
F	1 Mantago peragonica		i,		<u></u>	~ ····		_	1					0.	3% 0.2
F			1	l i l	28	%			6.0)%			0.3%		0.2
F				 [-	<u></u> 0				1		0	.3%			0.1
									-	-					

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	8-1-	2 4							212	212	0.1%	0.1%	0.1%	810	800	200	100	100	900	100	0.0%	0.0%	9.00	800	800	800	800	100	200	100					10.02	744	+	1 5 5 C	5 796		2 1 2 P	2 2 2	8 4 3%	8 4 2%			2000		8.1 				201 120	195	3% 1.2%		801 8L	1	850	0.3% 0.5%	9.79	0.3% 0.7%	0.6%	0.6%	0.6%	89.0	8.9.0	0.5%	03% 05%		
AMI 960UA											╁	╋	╈	+	╈	╋	╋	╉	+ +	+++++++++++++++++++++++++++++++++++++++	† †					T								9.3% 11.0%	3.3% 58.1%	7.8% 4.47			2.9%	2.6%	5.676 2.0	4.6.8	1.670 2.1	2.9%	2.6%	1.6% 1.	0.3%				1.0%			0.3%					0.3%	1.0%	0.7%	0 7%		┝	1364		╋				
Cover	0.3%			0.3%		-																		$\frac{1}{1}$				┤						\$ 14.5%	\$ 44.7% 4	AK 6.9%	196 3.3%	96 3.3%	3% 3.6%	3% 3.3%	9% 2.3%	5% 3.0%	2% 2.0%	0% 2.3%	0% 2.0%	6% 0.7%	0% 2.0%	80	0.3%	0.7%	1.3% 1.0%	1.3% 0.7%	1.0%	1.6%	0.3%	 	10.1			1.72				1.3%	0.3%				0.3%		
	nricsouri	8		2			3%			3%	78	7%	3%	7% 0.3%	0.3%	36	100	794	82.0	0.7%	2.7%	2.0%	0.7%	3.3%	13%	13%	2.7%	0.7%	33%	07%	3796	074	2 2 2	117	42.5	on 7% 8.0	100 mm 8.5	R7 3% 8.5	4 796 4.5	17 796 2.	11.3% 2	26.0%	31.3% 2	39.3% 1	27 7%	35 300 0	1 10 00 1	1 00.0 V	80.00	20.00	20.22	21 396	2 78 7%	2 - 2 -	24.42	24.12	20.02	1 20 CC	32.55	6% 13.2%	3.3%	0% 1.3%	0.7%	.6% 6.0%	9% 2.7%	7% 11 3%	9% 16.7%		24.0%	6.0%	
ats Present	1984 MIGH	53		r		20 a 0.7				0	9	8									┝	┝	┢	┝	┢	╋	╋	╋	╋	╋	†					00.48	N 100	200 100.02	20.001	20.00 PC	13.40 0.02	RI	101 35 10	0.1.20 A. 1.20	9.3% 41.4	5.3	7.2% 55.07	6.1% 52.07	6.1% 50.0°	19 98 91 2	8.3% 30.1			41.7%	8.3% 19.4	11.1% 41./	44.4% 22-	2.8% 11.	33.3%	33.3% 5.	2.8%	5.6% 25		5.6% 5	16 74 13	5 6 19	46 794 13		83%		
K of Oundr	L 26MuL		╉	+		8	1 80		40°C	196 2 000	8.49 2.02	4%	8	38	38												5.6%					13.9%	-				100.0% 91	100.0% 97.	100.0% 3/	25 86 23	5.6%	8.3% 30	25.0%	66.7%	58.3%	19.4%	52.8% 4	2.8%	72.2% 3	61.1%	8.3%		47.2%	36.1%	2.8%	44.4%	33.3%	13.9%	1118	16.7%						120 22 10	P 13.5%	5.3	P Far		222 10
	Parts4		90	9 9	0 0	n p 5.6	n m 8	9 0	E	• m •	e m 2	e m 19.	<u>в</u> ш	e m 8	<u>n</u> u 8	1 1 1 1	90	9	0	d u	0 0	u p l	9	du	E e	n u	du	u p l	d u	au	E	Ee	E				0 0	E	E e	d u	du	d u	9 1	u u	0 0	9 9		E	E	0 0	0	9			0							5		Ē	-	-	E	-	Ē	5	5
				unup		212	Olia		The second se	in the second seco	mp		inini inimitis					201			E.S.	e nideta	ficia nalo	n incisum		2 diamont	Internet in the second s	aution its	TO UNIT		BHIADO			schela	162			Smithil	Olivers		NOVNIBI N	B.		BONIN BO	Weigers	enumore:	on perairui	etus	on dubius	itebssimum	psilostactiya	rie serourae	ulus arvensus	us agrasus	tectorum	inernus	semola	ttalii 	oolumnitera	m campestre	hus flexuosus	e dectyloides	heliophylla	ous curtipendula	Berndrine	- macrothize	-lite drummondii	m cicutarium	Invisi	hum oriental	risie frigide
i~ 3 (Cont.)		ecies	ombolus aspe	rsineon divark	Iclepias specic	mecio platten	m mulpomson	raba reptans	rysimum aspoi	epidium densi	nodenis penu	ilene anumun	nodium cicural	Indrosecte out	/iola kitaibeliai	Jrk. Forb - 13	Lak. Food - univ	Agropyron rep	Bouteloug min	Hordeum Jupa	Schizecnynun	Unk. Grass -	Nothocality cu	1 PLAXBCUT	Limosperium	Camehna mk	Lesquereille	Reil paundo	Astragelus S	Lupinus and	Psoniee ar	1 Oxafis dillen	1 Galium apa	1 Verbena bra	1 Unk Forb -	1 Bare Groun	1 Litter	2 Agropyron	2 Bromus Jap	2 Allysum m	2 Artemista A	2 Yucca giat	2 Aster pom	2 Heteromor	2 Engeron G	2 Psonales	2 Andropog	2 Aster fak	2 Tragopog	2 Linum us	2 Ambrosia	2 Gutierrez	2 Comon	2 Astragel	2 Bromus	2 Bromus	2 Lectuce	2 Viole nu	2 Retibide	2 Lepidiu	2 Astrada	2 Buchlo	- Carex					2 Asues		- 1 ome	2 Artom
	violdy	· Plot Sp	1 50	1 Wi	1 43	5	Õ F	ā F	-	퀴	Ŧ	5	Ŧ	Ŧ	Ē	Ŧ		F	Ŧ	F	-	-	=	-	-							Ľ	Ľ	<u> </u>	L_								لـــا											-																	

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App	endix 3 (Cont.)		1	<u> </u>	K of Ourse	Inte Dro	sent	·	% Cove	r		
Diet	Sensing		_	Part94	July95	July96	Ali94	June95	June96	Aug95	Aug96	IMP
2101	Species	n	Ð	1 alwy			24.7%				0.3%	0.5%
	Circium undulatum	n	Ē	2.8%			4.0%		1.0%			0.4%
2	Senecio plattensis	n	D	33.3%	11.1%	2.8%	17.3%					0.4%
2		n	D	58.3%			31.3%					0.4%
2	Rosa arkansana	n	P				3.3%		0.3%	0.3%	0.3%	0.4%
2	Hybanthus verticillatus	n	P	11.1%			2.7%		0.7%	0.3%		0.4%
2	Poe compresse		Ð				2.7%	0.3%		L	0.3%	0.3%
2	Grindelia squarrosa	In	m	5.6%		2.8%	4.0%			0.7%		0.3%
2	Taraxacum officianale		P	2.8%	11.1%	8.3%	4.0%				 	0.3%
2	Evolvulus nuttalianus	n	P		11.1%	11.1%				<u> </u>	ļ	0.3%
2	Euphorbia spethulata	n	m		11.1%		12.7%	L		<u> </u>	ļ	0.3%
2	Androsace occidentalis	n	m	44.4%			25.3%					0.3%
2	Penstemon secundifiorus	n	P				10.7%	L	0.3%	0.3%		0.3%
2	Agropyton repens	e	P					0.3%	ļ		0.3%	
2	Liatris punctata	n	P		2.8%	8.3%		ļ		<u> </u>	 	0.2%
2	Descurainia sophia	e	m	19.4%			14.7%	ļ				0.270
2	Silene antimhina	0	m		2.8%	2.8%	8.0%			0.99	╄────	0.2%
2	Dalea purpurea	n	Р						ļ	0.7%		0.2%
2	Leucocrinum montanum	n	P				2.7%	0.6%	·	_		0.2%
2	Unk. Forb -783	u	u	2.8%			0.7%	0.6%	 		+	0.270
2	Carex sp.	U	P		ļ		6.7%		I	- 0.20	<u> </u>	0.17
2	Bouteloua gracilis	In	P	2.8%		L	0.7%	4	 	+ 0.37	' 	0.1%
2	Poa pratensis	0	P	5.6%	2.8%		2.7%	'	├ ──;	<u>↓</u>	╂-───	0.1%
2	Allium textile	<u>In</u>	P	8.3%	l		8.7%	-	<u> </u>	+	+	0.1%
2	Rhus trilobata	In	P	L		_	+	0.3%	<u>'</u>	<u> </u>	ł	0.1%
2	Podospermum lacinatum	e	Im				2./%	0.3%	· <u> </u>	+	<u> </u>	0.1%
2	Onosmodium molle	In	P.	2.8%	2.8%		1.3%	4	╂┈───			0.1%
2	Camelina microcarpa	•	m		2.8%		1.3%	¥	<u> </u>			0.1%
2	Draba reptans	n	m	13.9%	L		9.3%		<u> </u>	<u> </u>		0.1%
2	Sysimbrium altissimum	e	m	2.8%			6.7%		<u></u>	+	+	0.1%
2	Opuntia polyacantha	In	P	2.8%	·		0.7%	0.3%		1	+	0.1%
2	Triodanis perfoliata	•	m				8.0%	2		+		0.1%
2	Cerastium arvense	In	P		2.8%	2.8%	1.37	4	<u> </u>			0.1%
2	Cerastium nuttans	In	m		8.3%	ļ			<u> </u>	+	+	0.1%
2	Paronychia jamesii	In	P					0.37	<u>'</u>	4		0.1%
2	Tradescantia occidentalis	<u>n</u>	P	5.6%	· 	8.39	1.37	<u>+</u>	0.39		+	0.1%
2	Euphorbia robusta	<u> n</u>	P	ļ	+	 	44.20		1 0.37	┦──	+	0.1%
2	Gaura coccinea		P		0.00	ļ	11.37	<u>}</u>	+	+	+	0.1%
2	Plantago patagonica	1	m	·	2.8%	 	6.79		+		+	0.1%
	Viola kitaibeliana	10			<u> </u>		7 20	위	+	+	+	0.1%
	Unk. Forb -764	ļu	<u>u</u>			· · ·	1 20	<u>.</u>	+		+	0.0%
	Hordeum jubatum	-10	U	0.00			1.37		+	+	+	0.0%
	Vulpia octoflora			0.37	<u></u>	+	1 20				-	0.0%
L	Unk. Grass - 157	14			+	<u> </u>	1 1 29	2	╉────	+		0.0%
	Antennaria rosea	17	IΡ	+	+	2 00	1 1.27	°				0.0%
	2 Amica fulgens	-1"	P	+		2.07	1 0 79	<u></u>		+		0.09
Li	Nothocalis cuspidata	ᆤ	<u>'IP</u>	+	+	<u> </u>	2 70	<u></u>	+		1	0.0%
	Lappula redowski	벁	11	1 0 20	<u>_</u>	┽	2.17	<u>k</u>				0.09
L	Mertensia lanceolata	+r	<u>IP</u>	0.39	<u> </u>	<u> </u>	4 20		-	-+	-+	0.09
	Erysimum asperum	-ť	<u>IP</u>	<u> </u>		+	1.37	<u> </u>	+		+	0.09
	2 Lepidium densifiorum	4	1.	<u>' </u>	+		1 0.07	ĩ	+			0.09
H	Lesquerella montaña	+	12	+	+		1 0.70	ž –		+		0.09
	2 Corypnantina missouriensis	-#	<u>י 1</u>	<u>.</u>	+	2.80	<u>kt</u>			+		0.09
	2 Secungera vana	+	<u> </u>	<u>}</u>	-+	4.0	- 070	*			+	0.09
		+		<u>"</u>	-+	+	1 1 20	<u>x</u>	1-	-+		0.09
	2 Uenomera pracriycarpa	-#	귀	2.84	<u></u>	+	1 20	*	1	+	1	0.09
		+	HE.	<u>, 2.07</u>	2 2 2 2	<u></u>	+		-	-	1	0.09
	2 veronica peregrina	+	:#		2.07	<u>.</u>	+		-		-	0.09
-		-#	÷ F	2.80	K 4.07	*	07	<u>s</u> †		-1	-	0.0
	21Unk. Pord -/00	-#		<u> </u>	~	+	1 30					0.0
	21UNK. PORD -/00	-#	-	9 20	<u>_</u>	+	20	%	-			0.0
	2 Unk. FOID - //U	-		<u> </u>	~	+	2.0	ấ –	-			0.0
	2]Unk. Forb -//1			<u>'</u>	-+	+		2				1 0.0
L	2 Unk. Forb -773	4	<u>u li</u>	<u>'</u>		+	+ 3.3	2	-+			- 0.0
Ĺ	2 Unk. Forb -775	-	ᄟ	<u> </u>			+-~;-	~ 				
Ĺ	2 Unk. Forb -776	-	<u>u li</u>	<u></u>	+	+		~			-+	- 0.0
Ē	2 Unk. Forb -777	+	박	<u>-</u>			- 2.0	2				
L	2 Unk. Forb - 778	4	u li	<u>'</u>		+	1.3					
	21 lok Forb 779	- 1	u i i	4 1	1	1	1 2.0	701	1	1	1	1 0.0

and the strength of the strength os strength of the strength os strength of the strength os strength o

Арр	endix 3 (Coll.)		1		%	of Qua	drats Pre	sent			% Cover				
Diet	Sancing			Part94	Ju	ily95	July96	A1194	J	une95	June96	Aug95	Aug9		
201	Bare Ground								_	10.2%	8.2%	2.9%	10.5		0.0%
	Litter									34.1%	46.1%	56.9%	00.3	2 2	3 394
-3	Convolvulus arvensis	0	Ρ	97.2	<u>% 1</u>	00.0%	100.0%	83.	5%	1.97	13.0%	19.97	0.0		3.04
3	Bromus tectorum	•	E	94.4	*	94.4%	91.7%	88.		18.0%	3.73			-	2.0%
3	Allysum minus	•	m	77.8	% 1	00.0%	83.3%	86.		22.2.70	3.0%		╂───	-+·	7.0%
3	Bromus japonicus	•	m	94.4	%	97.2%	91.7%	82.	· · ·	2.5%	3.0%	2 34	23	396	4.8%
3	Agropyron smithii	n	P				2.8%	20.	7 2	2.370	3.3 %	6.0%	20	0%	4.8%
3	Psoralea tenuifiora	n	P_	8.3	%	25.0%	22.270	20.	78	0.6%	1 396	1.0%	<u> </u>		4.6%
3	Tragopogon dubius	0	m	8.3	%	55.5%	60.37	20.	794	0.6%		1.7%	1 1:	3%	3.2%
3	Poa pratensis	0	P.	11.1	20	30.070	13.0%	10		16%	0.6%	0.3%	2.0	0%	2.4%
3	Gutierrezia sarothrae	n	ÌΡ.	13.9	<u>~</u> -	0.378	39.0%	12	096	0.3%	0.6%	0.7%	0.	7%	2.4%
3	Sphaeralcea coccinia	In	IP.	2.8	<u>~</u>	19.470	30.3%	10	7%	0.6%	0.3%	0.7%	2.	7%	2.1%
3	Ambrosia psilostachya	n	P		-+-	27.8%	5.6%	-	7	4.1%					1.7%
3	Erodium cicutarium	10	Ē		a l	21.0 %	0.0 %	6	0%			1.09	2.	0%	1.5%
3	Engeron flagellans	1	먣	87	~	28%	2.8%	11.	3%		0.3%	1.09	1.	3%	1.5%
3	Heterotheca Villosa	10	膽	111	a l -	16.7%	2.8%	12	7%		1.0%	0.39	0.	3%	1.3%
3	Aster faicetus	H-	ᄩ	8.3	s t -	5.6%	2.8%	4	0%		1.9%	0.79	5		1.1%
3	Poe compresse	T.	ľm		-	13.9%	1	8	7%	0.6%	1.3%		_		1.0%
13	Vinia americana	ľ	Б	16.7	%	16.7%	8.3%	6	7%	0.9%	0.3%		┉	┯╋	1.0%
۲÷	Lactura seriola	le	Īm	11.	%		16.79	7	.3%			 	10	./%	0.576
۲ţ	Opuntia macronhiza	In	Þ	13.9	9%	8.3%	8.39	10	.7%		0.3%	<u> </u>	+ 0	.370	0.370
H-	Sitanion longifolium	In	u	T	Τ	11.1%	2.89	0	.7%	0.3%	1.3%		. 	-+-	0.070
13	Sanonaria officianalis		P				1	4	.0%	0.9%		1.39	2	-+	0.07
	Melilotus officinalis		m	5.	5%	2.8%	5.69	8	.0%		1.0%	0.37	-		0.6%
3	Ericeron divergens	n	П				2.89	4			1.97			394	0.5%
	Artemisia frigida	n	P					8	.0%		0.37	<u>'</u>	$+\ddot{a}$	394	0.5%
3	Grindelia squarrosa	In	m	2.	3%	8.3%	5.69	4-1	3%			1 3	₫─		0.5%
13	Rumex crispus		P				ļ	╉┈╸						7%	0.4%
3	Aristida purpurea	n	P						.070		0.69		Ťŏ	3%	0.4%
3	Ratibida columnifera		ĮΡ	<u> </u>	_		───	+	0%	0.6%	0.61				0.4%
3	Lepidium campestre	-	1	4	_	0.00	2.00	, 1	0%	0.3%	0.69	1			0.4%
3	Astragalus drummondii	1	1P	2.	5%	2.87	2.07	4	3%	0.0 %	0.39	0.3	8		0.4%
	Gaura coccinea	뿌	1P	↓	1000	5.07	5.69	<u>, † – °</u>				0.3	X C	0.3%	0.4%
	Physalis heterophylla	╀	15					~ †			1			0.7%	0.3%
	Artemisia ludoviciana	-			-+	5.69	6 8.39	<u>s</u>	_						0.3%
	Taraxacum omcianale	+	18	<u>_</u>		0.07		~	2.7%	0.3%	5	0.3	%		0.3%
	Sysimonum alessimum	ť		<u></u>	-+	5.69	6 8.3	*							0.3%
		ť		n 5	6%	2.89	6		1.3%	0.39	6		_		0.2%
	Sample Contandrus	f		<u></u>	-							<u> </u>	-1	0.3%	0.2%
	Stice comete			51							1	4		0.3%	0.2%
	Vince dauce	Ti	n la	5 5	6%		5.6	%	1.3%			1			0.1%
	Thelesperma megapotamicum	1		51						<u> </u>		0.3	%		0.1%
H	3 Opuntia fragilis	1	n İs						2.7%	4	_		-+-		0.12
\vdash	3 Medicado sativa								2.7%	4	+	<u> </u>	_+-		0.170
	3 Marrubium vulgare	Ţ	0			2.8	%			 	-		-+-		0.1%
	3 Veronica peregnina		•	m		2.8	<u>%</u>	_		+		+	+		01%
	3 Physalis virginiana	Ι	n	u			2.8	*	0./%	4		-+	-+-		0.1%
	3 Verbena bractaeta		•	m				<u>~</u>		1 0 2	.		-+-		0.1%
	3 Unk. Forb -934		<u>u l</u> i	<u> </u>				-+-		+ 0.3	21 ——				0.1%
	3 Unk. Forb -935	_	u l	<u> </u>		ļ			0.79	1. <u>0.3</u>	~ 				0.0%
	3 Juncus arcticus	_	nļ	₽┥					0.79	<u></u>			-†-		0.0%
	3 Poa sandbergii		n	₽╄				-+-	1 74	<u></u> _		+	-+-		0.0%
	3 Stipe viridule			<u>e</u>		╂───			1 39	čl	+				0.0%
	3 Lietris punctete	_	-	<u></u>				-+-	1.39	6	1	-1			0.0%
	3 Camelina microcarpa	-	리	<u>m</u>]		<u> </u>	-+	-+-	0.79	6		-1			0.0%
F	3 Nepeta catana	_		<u><u> </u></u>		<u>├</u>		-+-	2.09	6	1	_			0.0%
F	3 Plantago patagonica	_	-	"+		t		-1-	1.39	6					0.0%
Ļ	3 Clemans misuussime	_		<u>*</u>		<u> </u>	<u> </u>	-†-	2.09	*					0.0%
F			-	<u></u>		t	-+	-†-	2.0	*			T		0.0%
F	31Unk. Ford -781	-	H	<u>.</u>		1	~	-†	2.0	*					0.0%
-	3 Unix. Ford -/01		۳			1		-+		7.9	96 4.	5% 3	.0%	3.79	0.0%
⊢	21 Hor	_	Η			1		-		28.5	% 46.	8% 56	.1%	68.89	0.0%
+	A Agrovno smithii			0 10	5.0%	100.0	9% 91.	7%	78.7	% 5.8	3% 5.	3% 9	.6%	4.09	<u>13.6%</u>
F	A Stice comate	-	In	1		1	2.	8%		12.6	5% 7.	3% 7	.9%	7.09	9.8%
\vdash			1	m 2	2.2%	100.0	96 94.	4%	47.3	% 7.	3% 4.	6%			7.5%
-			Ť	m 9	7.2%	100.0	2%		80.0	% 13.4	4%				6.3%

Арр	endix 3 (Cont.)		r		% of Qua	drats Pre	sent		% Cove	r		
Di ad	Canada		-	Part94	July95	July96	A194	June95	June96	Aug95	Aug96	IMP
1100	Ademicia ludovicia0a	nt		36.1%	61.1%	38.9%	19.3%	3.2%	3.0%	1.0%	2.3%	5.4%
4	Promise tenuifiore	n I	51	36.1%	52.8%	44.4%	32.7%	0.3%	0.3%	5.3%	0.7%	4.8%
	Bouteloua curtipendula	nİ	61		16.7%	27.8%	24.7%	2.9%	2.6%	1.0%	2.0%	4.2%
4	Artemisia dranunculus	n	51	55.6%	44.4%	36.1%	43.3%	1.0%	1.0%	2.3%	1.3%	42%
4	Poe pratensis	•	P	22.2%	30.6%	33.3%	5.3%	0.3%	2.3%	1.7%	1.7%	3,370
4	Allysum minus	e	m			88.9%		<u> </u>	4.6%		1 000	3.270
4	Bouteloua gracilis	n	P	11.1%	13.9%	22.2%	28.0%	3.2%	1.0%	1.0%	1.0%	2.0%
4	Astragalus drummondii	n	Ρ	33.3%	27.8%	30.6%	40.7%	1.9%	2.0%	0.3%	4 794	2.8%
4	Yucca glauca	n	P_				8,79	1.3%	1./7	1.070	0.7%	2.5
4	Aster faicatus	n	Р	30.6%	36.1%	30.6%	14.07		0.3%	0.770	0.7 %	21%
4	Tragopogon dubius	e	ш	16.7%	50.0%	47.2%	16.09	0.37	0.37		0.3%	1.7%
4	Sphaeralcea coccinia	n	Ρ.	27.8%	25.0%	13.9%	30.77	0.37	1.094	<u>'</u>		1.3%
4	Liatris punctata	n	Ρ	16.7%	30.6%	16.7%	14.77	0.69	1.0%	0.3%	0.3%	1.1%
4	Carex heliophylla	n	P	40.00	8.370	10.07	14.09	0.0	0.39	1		1.1%
4	Podospermum lacinatum	8	m	13.9%	13.970	10.4%	16.79	0.39				1.0%
4	Opuntia macromiza	<u>n</u>	P_	22.270	13.0%	2.8%	7.39	1		1.0%	0.3%	0.9%
4	Buchloe dectyloides	<u>n</u>	<u>P</u> _	8.3%	5.6%	8.3%	6.79	0.69	6 0.3%	5	0.3%	0.8%
4		n P	臣	11 1%	2.8%	2.8%	2.79	0.39	6 0.39		1.09	0.8%
⊢₄	Androno ana ana ana ana ana ana ana ana ana	n			<u> </u>	1	0.79	6	0.39	0.7%	0.79	0.7%
F=			16	11.1%	11.1%	16.79	6.09	6	0.39	6		0.7%
H-	Heterothaca villosa	n	Þ	<u> </u>				0.69	6 0.79	6 0.3%	0.39	0.7%
Hª	Teraxecum officianale		P	11.1%	11.1%	19.49	6 8.09	6 0.39	6			0.7%
	Viole nuttellii	n	P	19.4%	19.4%		12.79	6 0.61	<u> (</u>	4	· 	0.7%
	Musineon divaricatum	n	P	55.6%			44.09	6		<u> </u>	1	0.6%
	Chrysothamnus nauseosus	n	P		5.6%	5.69	6		0.79	6	0.39	0.070
	Astragalus agrestis	n	P	22.2%		5.69	6 16.7	6 0.39	61	0.39	¥	0.6%
	Gaura coccinea	n	P	19.4%	8.3%	5.69	6 15.39	6 0.6	<u> </u>	- 	+	0.5%
	Agropyron repens	•	Р				38.0	<u> </u>	- <u> </u>		1 0 79	6.05%
	Aristide purpuree	n	P		<u> </u>	<u> </u>	11.3		_ 	<u> </u>	0.7	0.5%
	Artemisia frigida	n	P				6.0		<u></u>	0.79	6 0.07	0.5%
4	Erigeron divergens	n	m	13.9%	5.6%	2.89	5 3.5		0.39	K 039	6 0.39	6 0.5%
	Helianthus pumilus	n	P			5 69	1 3.3		× ×			0.5%
	Senecio plattensis	n	P	25.0%	8.3%	3.07			0.3		-	0.5%
	Vicia americana	<u>n</u>	몓	10.07	2 2 2 2		24 7	6 03	x	<u> </u>	1	0.5%
1	Erodium cicutarium	e	Im	27.89	13.99	<u>. </u>	12.7	<u>x</u>	<u>~</u>	-		0.4%
1	Lomatum onental	12	P	27.07	289	289	6.7	x 1.0	%			0.4%
	Menensia lanceolata	H.	쁥	19.49			25.3	%				0.4%
H	Draba replans	f	In	11 19	11.19	6	12.7	%				0.4%
H		1e	Im	58.39	6		19.3	%				0.3%
\vdash	Thelescorme menanciamicum	İn		1						0.3	% 0.3	% 0.3%
H	Barbarna orthocaras	İn	lu	36.19	6		14.7	% 0.3	%			0.3%
	Euchorbia spathulata	In I	m	19.49	6		16.7	%		0.3	*	0.3%
	Androsace occidentalis	Īn	1 m	38.99	6		21.3	%		_		0.3%
H	A Schizechynum scoperium	Ir	P								0.3	<u>> 0.2%</u>
H	4 Allium textile	7	P	8.39	6 5.69	%	5.3	%	<u></u> =	~		
	4 Gutierrezia sarothrae	I	P						<u> </u>	<u>* </u>		
	4 Ratibida columnifera	ſ	1 P		2.89	b 5.6	76 1.3	70		+		
T	4 Camelina microcarpa	1	n n	n <u>5.69</u>	6		13.3	176	+			
	4 Oxytropis sericea	ļ	۱Þ	4	5.6	*	+			<u>~~</u>		0.2%
	4 Linum usitatissimum	4	<u>п</u>	¥	2.8	70	<u>e 11.</u>					0.1%
	4 Ambrosia psilostachya	4	ιĮΡ		2.8	70 2.0			-+			0.1%
	4 Lactuca serriola	1	<u>n 1</u>	n <u>8.3</u>	2.8	<u></u>						0.1%
	4 Lappula redowskii	#	1	<u> </u>			+ 77	S 0	3%	-1		0.1%
	4 Onosmodium molle	#		<u></u>				3%				0.1%
L	4 Descurainia pinnata	+		9 20	<u></u>			796	- 1			0.1%
	4 Coryphantna missouriensis	ť		<u>- 0.3</u>	56	%						0.1%
	4 Corypnanina vivipara	╀		n 28	x		4	7%				0.1%
	4 incoenis perionata	ť		n 16.7	× 28	%	4	0%	1			0.1%
F		ť	<u>≓</u> †;	<u></u>	<u>~+_~~</u>			0.	3%			0.1%
F		t		51			9.	3%				0.1%
-	AL form bariell	┫	n li	11.1	%	-	5.	3%				0.1%
⊢	A Linut townsi	+	n le	8.3	%		10.	0%				0.1%
⊢	Allink Forb -784	+	ūľ	<u></u>			5.	3%				0.1%
⊢	A Koeleria macrantha	1	nİı				1.	3%				0.0%
\vdash	4 Panicum virgatum	1	n li	p]			2	0%				0.0%
-	A Analonias pumila	-	n li				1	3%			1	0.0%

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Арр	endix 3 (Cour)		ſ		% of	Quadr	ats Pres	ent		*	Cover			
Dirt	Species	1	1	Part94	July9	15 Ju	uly96 /	A1194	June	35 Ju	ne96	Aug95	Aug96	IMP
F 104	Amica fulgens	n	P	2.8%				0.7%					<u></u>	0.0%
	Cirsium undulatum	n	m	2.8%				0.7%						0.0%
4	Erigeron flagellaris	n	P		L		+	2.0%						0.0%
4	Gaillardia aristata	n	р					0.7%						0.0%
4	Machaeranthera pinnatifida	n	P					2.1%						0.0%
4	Nothocalis cuspidata	n	P					2.7%						0.0%
Å	Leoidium campestre	0	m					1.3%	<u> </u>	-+-				0.0%
4	Opuntia fragilis	n	P					1.3%		-+-			· · · ·	0.0%
4	Arenaria fendlerii	n	P					0.7%	<u> </u>	-+-				0.0%
4	Evolvulus nuttalianus	n	P					3.3%		-+-				0.0%
	Tradia ramosa	n	P					3.3%	 					0.0%
	Astracalus tridactylicus	n	P		1			0.7%	-	_				0.0%
	Dalea purpurea	n	Ρ	5.6%				1.3%	·					0.0%
	Calochortus gunnisonii	n	P		2	.8%								0.0%
	Zvaedenos venenosus	n	P					0.7%	4					0.0%
	Orobanche fasciculata	n	P					1.3%	4					0.0%
	Eriogonum effusum	n	P	5.6%				1.3%	4					0.0%
	Delphinium viresens	п	р					1.39	4	_		 		0.0%
	Penstemon secundifiorus	n	P					1.39	4		0.00	- 200	2 20	0.0%
⊢⊒́	Bare Ground							L	3.	140	2.0%	61.5%	60.70	0.07
	Litter		E						43.	170	24.2%	01.07	1 1 20	
	Stipe comata	n	p	100.0%	91	.7%	91.7%	54.09	4.	370	1.1%	3./%	4.39	10.47
1-2	Aaropyron smithii	n	P	47.2%	3	5.1%	55.6%	40.09	1	7%	1.4%	4.0%	1./7	
۲,	Artemisia ludoviciana	n	P	16.7%	3).6%	27.8%	38.79	<u> 1</u>	0%	2.7%	0.7%	1.19	
H-	Bouteloua curtipendula	n	P	61.1%	5 5	5.6%	75.0%	34.09	6 1.	3%	1.4%	0.7%	1 0.79	4./70
F	Friceonum brevicaule	In	P	44.49	6	5.7%	36.1%	32.79	6 1.	0%	1.0%	0.7%	1.59	4.470
H		1e	Īm	22.29	5 50	D.0%	94.4%	30.09	<u>6 2</u>	3%	1.0%		┣──	4.170
	Stine vindule	Īn	D	27.89	3	5.1%	44.4%	17.39	6 3	.0%	0.7%	0.3%		3.4%
<u>ا</u>	Cudemarie semibrae	In	10	33:39	5 19	9.4%	36.1%	11.39	6		1.0%	· · · · ·	2.0%	<u>6 2.9%</u>
		Īn	16	77.89	5 3	0.6%	30.6%	51.39	6 2	.0%				2.6%
	Musingon Grancalum	tn	16	11.19	4	7.2%	33.3%	10.79	6		0.7%	0.3%	1.09	6 2.5%
	Astragalus troactylicus	tn	恬	25.09	5 1	1.1%	13.9%	12.09	6 1	.0%		0.3%	1.39	6 2.2%
	Prenanunus punnus	10	10	22.29	5	0.0%	27.8%	23.39	6 0	.3%	0.3%	<u> </u>	0.3	6 2.1%
	Priysana belli	tö	10	19.49	6	8.3%	8.3%	10.7	6 2	.3%	0.7%	6		1.8%
		th	10	8.39	6 1	1.1%	25.0%	4.09	6 0	.7%	0.79	0.39	0.3	\$ 1.7%
	Bouteloua gracuis	t,	10		+			9.3	6 0	.3%	0.79	6 0.39	<u>6 1.0</u>	\$ 1.6%
	Poa pratensis	te	The second	11 19	6 1	1.1%	5.6%	18.7	6		0.79	6 0.39	6 0.7	% 1.6%
		t;	1	8.39		9.4%	27.8%	6.0	8			0.39	6 0.7	% 1.5%
	Grindella squarrosa	+	1.	16.79	1 2	2 2%	41.7%	12.7	<u>x</u>		0.79	6		1.5%
	Tragopogon aubius	붆	1.	25.0			41.7%	21.3	% C	3%	0.39	6 0.39	6	1.5%
			ال	44 4		1.7%	36.1%	10.7	*				0.3	% 1.5%
	Linum usitalissimum	+		28			2.89	7.3	%		0.79	6	1.3	% 1.4%
		÷	15	27.8		7 8%	16.79	15.3	%			0.39	6 0.3	% 1.4%
		+	12	56		5 6%	2.89	6 29.3	<u>%</u> ().7%	0.79	6		1.3%
	B Bromus japomcus	+	<u> </u>	26 1	<u></u>	6.7%	38.99	6 16.0	%			0.39	6	1.3%
		#	4	9 20.1	<u>í</u> - 1	944	8 39	6 20.7	% ().7%	0.3	%		1.2%
	Vicia americana	#	4	0.3		674	13.04	6 80	%	1.3%	0.79	*		1.1%
	Anstide purpuree	-#	<u> </u>			1 1 1 1	11 19	6 12 0	<u>s</u>		0.7	× 0.3	×	1.1%
	5 Oryzopsis hymenoides	뿌	1	44.4	2 -	5.6%		1 1	<u>s</u>	0.3%			1.0	1.1%
	5 Prunus besseyi	4	-			11 104	5.69	6 17 3	s l		0.3	% 0.3	*	1.0%
	5 Opuntia macromiza	-#	1	1 22 2	20	11.170	12.00	<u>k 120</u>	-		0.3	% 0.3	%	1.0%
	5 Dales candida	-#	ņμ	2 33.3	~	13.370	5.0	K 51	96			1.0	%	0.9%
	5 Buchloe dactyloides	-	1		+-	22.24	5.07	2 3.4	a l	1.0%		- <u> </u>	1	0.99
	5 Gaillardia aristata	-	ņμ	?	4-4	4470	- 3.07		in l	1.3%	<u> </u>	+	1	0.89
L	5 Carex heliophylla	4	<u>n</u>	2		10 40	 	1 20.3			<u> </u>		1	0.89
	5 Allium textile	1	<u>n </u>]	<u> </u>	<u>~ </u> _	13.470	0.20	x - 4	a l			+	0	7% 0.79
	5 Rhus trilobata	_	<u>n</u> μ		. -	3.070	22.2		γ α Ι		03	%		0.79
L	5 Lietris punctate	4	맥	2.8	-	0.370	42.0		i i	~	t		0	3% 0.79
Ē	5 Gaura coccinea	_	n∦	₽┥	-+-	11.170	22.2	<u>x 0.(</u>	-~	0.3%	t		1	0.69
L	5 Erysimum esperum	4	n l			11.17	24.2	2 0	79	w.u A	t	0.3	1%	0.69
Ľ	5 Comandra umbellata		<u>n </u>	<u>p 30.6</u>	20-	0.37	0.3	~~~	284	0.28	1 0 2	1		0.59
	5 Yucca glauca		n ļ	<u> 5.6</u>	- 1	2.07	<u>1 3.6</u>	~ ~		10.07	<u> </u>	07	796	0.5
Г	5 Aster porteri		n	P	<u>_</u>	-	+		- 1 w	0.20	+	- <u> -<u>"</u>"</u>	~ 	0.59
	5 Senecio plattensis		n	p 27.8	- 16	2.6%	5.6	7 12	070	10.07	1	792		0.4
Г	5 Poa compressa		•	p 8.	5%		+	4.	- 120	0.70	<u> </u>			04
Г	5 Barberea orthoceras		n	u <u>8.</u>	5%		. 		270	0./7	<u>'</u>			04
	5 Camelina microcarpa		0	<u>m</u>		11.1%	<u> </u>	8	<u>140</u>	لاكدان	¥			
	5 Drabe reptans		n	m 13.	<u> %</u>	13.9%	6	12.	0%					
۲	5 Lesquerella montana		n	u 22.	2%		19.4	% 8.	0%		-			
	5 Euchorbia mbusta		n	D	T	19.49	6 8.3	% [1]	3%		1			0.4

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Арр	endix 3 (Cont.)		1		* ~ 0	dande Dras	tent .		% Cove	r		1
1	C	-	_	Dert04	July 95		A1194	June95	June96	Aug95	Aug96	IMP
100	Species			1910-	Julyos	11 1%	4.7%		0.3%			0.4%
믵	Sobeemices coccinie	-	5	5 6%	2.8%	2.8%	6.7%			0.3%		0.4%
누립	Oenothers brachycama			30.6%	13.9%	2.8%	9.3%					0.4%
- ž	Ambrosia osilostachva	'n	P			2.8%	6.0%		0.3%			0.3%
5	Amica fulgens	n	D				0.7%	0.7%				0.3%
5	Aster faicatus	n	D	11.1%		8.3%	11.3%				L	0.3%
5	Lactuca serticia	•	E				4.7%			0.3%		0.3%
5	Podospermum lacinatum		m		11.1%	5.6%	6.0%				L	0.3%
5	Descurainia sophia		m				0.7%	0.7%		L		0.3%
5	Rosa arkansana	n	P				4.7%		0.3%	ļ	ļ	0.3%
5	Pensternon secundifiorus	n	P			2.8%	6.0%		0.3%		ļ	0.3%
5	Lomatium oriental	n	p				1.3%	0.3%			<u> </u>	0.2%
5	Asclepias pumila	n	P	13.9%	2.8%	2.8%	7.3%		I	<u> </u>	∔	0.2%
5	Erigeron divergens	n	m	5.6%			2.0%	0.3%	ļ			0.2%
5	Townsendia exscapa	n	P			13.9%	1.3%			 		0.2%
5	Cerestium arvense	n	P			L	2.7%	0.3%			+	0.2%
5	Geranium caespitosum	n	P		5.6%			0.3%	 			0.2%
5	Viola nuttallii	n	P	8.3%	8.3%	<u> </u>	6.7%	0.00	<u>├</u>	<u>+</u> −−	+	0.2%
5	Unk. Forb -937	ļu	u		ļ	 	┠	0.3%	<u> </u>	 	+	1024
5	Unk. Forb -938	U	P	ļ	 	<u> </u>	+	0.3%	 	+	+	1012
5	Andropogon gerardii	n	IP.		 	 	4.0%	<u>+</u>	<u> </u>	+	+	01%
5	Bromus tectorum	10	m	2.8%	<u> </u>	ECO	1 22	<u>+</u>		1	1	0.1%
5	Artemisia frigida	10	<u>1</u>	 	<u> </u>	5.0%	674	' 	<u> </u>	+	1	0.1%
5	Hymenopappus filfiolius	10	몓	┣	5 694					+		0.1%
5	Lappula recowski	1	1m	 	5.0%	284		1	1	1	1	0.1%
5	Coryphanthe missouriensis	10	IP.	<u> </u>	3.0 %	2.07	4.7%		<u>↓</u>		1	0.1%
5	Paronychia jamesii	In	먣				3 39	<u> </u>	<u> </u>	1	1	0.1%
1-5	Silene anormine	E	1-				3.39	<u>.</u>				0.1%
5	Euphorbie spatnulate	1	Im		+		6.09			1		0.1%
5	Tragia ramose	1	ᄩ	<u> </u>	5.6%		0.79	1			1	0.1%
		In	P		0.0 %	1	3.39					0.1%
1-2	Hybennus verociliaus	1	1.	┼───	 	+	4.79		1			0.1%
	One thefum of constitutes	造	Ĭm		<u>+</u>		2.79			1		0.0%
	Dicanmenum orgosanuras	t	1			1	0.79					0.0%
	Sebizechvrium scoperium	t,	۲,	1	+	1	2.09	6				0.0%
	Lietemthece villose	1n	憰		2.89							0.0%
H	Nothocelis cuspidete		15			1	0.79	6				0.0%
	Lenidum competite		In				1.39	6				0.0%
	Trioclanis perioliata	t	17		1		2.09	6				0.0%
	Symphoricarnos occidentalis	Īn	To	1			2.09	6				0.0%
	Chamaasvoe serovilitolia		1	1			2.79	6				0.0%
	Astracelus equestis	Tn	D				2.79	6				0.0%
		10					1.39	6			_	0.0%
H	Calochortus gunnisonii	Tr	I P			2.89	6					0.0%
	Zvoadenos venenosus	Tr	n Ip				0.7	6				0.0%
F	Oxybaphus lineeris	Īr	P				1.3	K	1	_	-	0.0%
	5 Androsace occidentalis	Ir	1 1	n			0.7	×			. 	0.0%
	5 Bare Ground	Τ	Τ			1	_	42.9	<u>b 42.2</u>	39.7	37.2	0.0%
	5 Litter	T	T			<u></u>		25.9	<u>» 30.3</u>	<u>» 41.7</u>	<u>70 41.8</u>	
	6 Agropyron smithii	1	1	94.4	6 100.0	6 100.0	<u>% 96.0</u>	<u>a 12.3</u>	<u>> 6.4</u>	70 13.5	7.0	20.07
	6 Centaurea diffusa		1	97.29	72.2	6 86.1	6 43.3	4.2	5.4	<u> 2 11.2</u>	<u>> 4.0</u>	12.87
	6 Allysum minus			n 94.49	6 97.2 ⁴	6 97.2	79.3	12.3	2.3	2	w	8.37
	6 Convolvulus arvensis			44.4	6 97.2	6 91.7	76 <u>52.0</u>	3.2		<u>79 4.0</u>	2.0	78 0.07
	6 Bromus japonicus	4	1	n 63.9	b 58.3	b 86.1	78 54.7 N 40 1	<u>p 1.9</u>		70 N 2 0	ac 24	0.87
	6 Artemisia ludoviciana	1	n ļr	5.6	<u>6 50.0</u>	5 44.4	76 16.0	20 1.6	70 1.3	2.0 W 2.0	2.0	70 4.07
	6 Erigeron flagellaris	1	n ļs	4	33.3	b 19.4	<u>% 26.0</u>	70 1.9	70 Z.U	2.0	1.0	70 4.37
	6 Poa compressa	-	-	27.8	<u>b 19.4</u>	70 16.7	70 11.3		70 J.L	770 1.L VAL 4 4		36 2.00
	6 Spheeralcee coccinie	4	Щ	36.1	b 55.6	70 44.4	7 4/.3		귀 났			10 J.07
	6 Aster faicatus	4	nμ	50.0	30.6	<u>> 52.8</u>	34.7	70 0.0	<u>70 U./</u> 64	7 57		34 2.27
	6 Poe pretensis	-	•	2.8	8.3	8.3	70 11.3		~			34 2.07
	6 Artemisie frigide	-	ц	30.6	ZZZ	70 30.9 N 44 7	70 24.U				~ ~	7% 1.21
	6 Astragalus agrestis		ņψ	2 - 2.6	2/.8		70 13.3		<u>st</u>			396 1 70
Ĺ	6 Bouteloue gracilis	4	n∦		70 30.1 K 200	70 13.9 K	27 4.0					
	6 Bromus tectorum	4	박	<u>m 13.9</u>	222	70 K 40 7	3/2				396 0	3% 1.4
	6 Psorales tenuillors	4	ņЏ		0.3	70 10./	70 8.3	× 03				10
	6 Aristide purpuree	4	<u>n</u>	<u>p 16.7</u>	70 0.6	70 0.0				796		
L	6 Buchloe dectyloides	-	ᅖ			<u>70 0.3</u> ex 0.3						0.0
1	BLI ometium oriental	- 1	ri	p 13.9	70 442	701 2.0	0.1	W. V.a				1 0.0

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Арр	endix 3 (Cont.)		1		% of Our	drats Pre	sent		% Cove	r		
		-		PartQ4	101/95	Julv96	Ali94	June95	June96	Aug95	Aug96	IMP
Plot	Species			F al (34	8 3%	13.9%		1			0.3%	0.6%
6			2		13.9%	8.3%	0.7%	0.3%				0.5%
6	Astragalus drummonal		Ē			2.8%	0.7%		0.7%		0.3%	0.5%
6			-								1.0%	0.5%
6	Phyla cunenolla		-			2.8%	5.3%	1.0%				0.4%
6	Tragopogon dubius	5	m	2.8%			18.09					0.4%
6	Anarosace occidentans	5		8.3%		2.8%	4.79	5	0.3%			0.3%
6			2	8.3%	2.8%		4.09	0.3%		0.3%		0.3%
6	Heteromeca villosa	-	E I	0.0 %			16.09	5				0.3%
6	Silene anumina							1.0%				0.3%
6	Erodium cicutanum	9 0	5				1	0.6%	0.3%			0.3%
6	Leucocnium montanum	-	2	8 3%		8.3%	2.79	6		0.3%		0.3%
6		-	5	0.0 %		2.8%	0.79	6 0.3%				0.2%
6	Podospermum lacinatum	0	-		2.8%	-	8.09	6				0.2%
6	Camelina microcarpa	E.	-	2.8%			10.09	6				0.2%
6	Descurainia pinneta	<u></u>	<u> </u>	11 196	8 3%		2.79	61				0.2%
6	Lepidium densmorum	la -	m	1.1.1.0	8 394		0.7	6	1			0.2%
6	Chenopodium incanum	In In	<u>m</u>	<u> </u>			10.09	6				0.2%
6	Evolvulus nuttalianus	<u>In</u>	臣	∔		┼───	+			1	0.39	0.2%
6	Mehiotus officinalis	t <u>e</u>	1	l	8 394	 	3.3	6	1	Γ		0.2%
<u> </u>	Gaura coccinea	<u> </u>	P	┟────	0.5%	 	1	1	1	0.3%		0.1%
6	Schedonnarous paniculatus	Ē	Į₽_	2 200	2 894	1	20	6	1	1		0.1%
6	Allum textile	17	먣	2.070	2.07	+	27	6	1	1.		0.1%
6	Ambrosia psilostachya	10	P	11 10	<u> </u>	+	27	K	1	1		0.1%
6	Chrysothamnus nauseosus	臣	<u>ام</u>	1.170	284	<u>. </u>	1 20	6	1	1	T.	0.1%
6	Cirsium undulatum	In	m	5.00	2.0 %		27	<u></u>				0.1%
6	Lactuca serriola	e	I	3.07	5.69	+	07	<u>k</u>	1	1	1	0.1%
6	Liatris punctata	In	<u> P</u>	┨────	9.07			~	1	1		0.1%
6	Thelesperma megapotamicum	In	₽.		0.0 ×	<u></u>	1 53	x.	+			0.1%
6	Lithospermum incisum	In	P.	6.00	<u> </u>	┼───	53	<u> </u>	+	+		0.1%
6	Draba reptans	In	1m	5.0%	1	5.69	1 27	<u>x </u>			1	0.1%
6	Lepidium campestre	•	1m			2.07	2.1	~ <u> </u>	+		1	0.1%
6	Lesquerella montana	<u>ln</u>	10		2.07	2.07	1 27	×		+	1	0.1%
6	Opuntia macronhiza	ln	Į₽.			2.07	1 23	~		+		0.1%
6	Agaloma marginata	n	<u>lu</u>	4		+	1 30	~	1 0 30	<u>x</u>		0.1%
6	Astragalus flexuosus	In	P	1		<u> </u>	67	×		~	+	0.1%
6	Plantago patagonica	In	Im	11.19			+ <u>°.′</u>	<u></u>	+		+	0.1%
E	Viola nuttallii	<u> n</u>	P	L	5.67	<u>}</u>	+	~				0.1%
6	Unk. Forb -788	U	u		2.89	b		~			+	0.0%
F	Koeleria macrantha	n	P		1	+	0.7	<u>» </u>	+			0.0%
e	Stipe comate	n	<u>ip</u>		1			20				0.0%
6	Mertensia lanceolata	п	P			-	0./	~				0.0%
1	Sysimbrium alfissimum		n 🕅	1			12	*				0.0%
	Silene scoulerii	Ī	IP			\perp	1.2	%		+		0.0%
	Tradescantia occidentalis	Ir	I P				2.0	¹⁹⁶				0.0%
-	Calochortus gunnisonii	Ì٢	IP		2.81	6						0.0%
	Oxybaphus linearis	ľ	1 P		2.8	6				_		
F	Physalis hederaefolia	I	P				1.2	1%				
	Bare Ground	Τ	Τ					18.2	76 9.4	70 1.6		
H	5 Litter	J	Τ					31.8	% 54.5	70 49.8	0.00	70 U.U70
H	7 Agropyron smithii	1	۱ļ	91.79	6 91.7	\$ 86.1	% 93.:	<u>3% 7.2</u>	% <u>9.8</u>	14.3	<u>70 5.3</u>	0.01
	7 Allysum minus	1	• n	n 47.29	66.7	\$ 75.0	% 54.	16.6	% 2.0	76		0.3%
	7 Bromus japonicus		a le	n 11.19	6 83.3	\$ 72.2	% 37.	3% 7.5	<u>% 8.2</u>	%		1.1%
	7 Bouteloua gracilis	Ti	n İr	22.29	52.8	52.8	% 26.	7% 3.6	% 2.0	96 4.6	2.0	70 6.3%
	7 Centaurea diffusa		θĺι	1 13.9	\$ 30.6	\$ 55.6	% 22.	0% 1.3	% 4.2	2.0	% 4.0	76 5.2%
+-	7 Convolvulus arvensis		e le	22.2	\$ 38.9	% 25.0	% 28.	0% 1.3	% 4.9	1% 5.5	% 1.7	% 5.1%
	7 Aster faicatus		n tí	41.7	6 16.7	% 30.6	% 33.	3%	2.6	5% 1.3	96 1.7	3.4%
	7 Stina comata	-ti	n li	33.3	% 47.2	% 25.0	% 16.	7%	2.0)% 1.0	96 1.0	7% 2.9%
+	7 Carex beliophylla	ť	n li	16.7	% 2.8	% 8.3	% 28.	7% 1.	96 1.3	3% 1.6	96 1.	2.8%
	7 Bromus Inclorum	ť		n 25.0	% 38.9	%	21.	3% 4.2	2% 2.0	0%		2.7%
+	7 Acietida purpursa	f	ăť.	11.1	\$ 25.0	% 5.6	% 12.	0% 0.	3% 0.:	3% 2.0	96 1.	7% 2.4%
\vdash	7 Ademicie fride	+	÷1	30.6	% 30.6	% 50.0	% 27	3% 0.	7%	1.0)% 0.:	3% 2.4%
\vdash	7 Listembere villere	+	÷ť	139	% 5.6	% 2.8	% 20	0% 0.	7% 0.1	7% 1.6	5% 1.	7% 2.3%
-		+	H	167	% 25.0	% 250	96 12	0%	0.	3% 2.0	0% 0.	7% 2.1%
\vdash		-+	븱	28	%	111	% 19	3% 1.	0% 1.	6% 0.	7% 1.	0% 2.0%
-		+	쁥	2.0	w 22 2	96 13 0	96 29	3% 0	3%	1.0	5% 0.	3% 1.9%
		+	#	m 120	S AA A	96 A1	7% R	0% 0	7%	0.	3%	1.8%
		+	븪	m 467		8 36	196 10	7% 0	3% 0	7% 0.	3%	1.7%
-		-	븪	10.7	a 20.	8 27	A 18	7% 0	7% 1	0% 1	0% 0.	3% 1.6%
	/ moe compresse		빅	2 - 2.0	A 2.0		x 7	396 1	396		3% 0	3% 1.3%
	/ 1 MADE 0/0878/2515		• 1	ວາ 13,3	70 43.	-Q (Q,		~~	- ~ 1	1		the second second second second second second second second second second second second second second second s

Appendix 3 (Cont.)

					% of Qua	drats Pre	sent	(· · · · · · · · · · · · · · · · · · ·	% Cove	r		1
Plot	Species	Γ		Part94	July95	Juty96	A1194	June95	June96	Aug95	Aug96	IMP
7	Astragalus agrestis	n	Ρ	36.1%	25.0%	16.7%	12.0%		0.3%	0.3%	0.3%	1.2%
7	Enogonum effusum	n	Р	8.3%	2.8%		12.7%		0.3%		1.7%	1.2%
7	Erigeron divergens	n	m	36.1%	22.2%	19.4%	12.0%		0.3%	0.3%		1.1%
7	Linum lewisii	In	P	8.3%	13.9%	11.1%	16.7%		0.3%	0.3%		0.9%
7	Descurainia pinnata	n	m	19.4%	13.9%		33.3%	0.3%				0.8%
7	Bouteloua curtipendula	n	P		8.3%	8.3%		0.3%			0.7%	0.7%
7	Helianthus pumilus	n	P	2.8%			0.7%	0.3%		1.3%	0.3%	0.7%
7	Silene antimhina	e	m	22.2%	5.6%	8.3%	30.7%					0.7%
7	Androsace occidentalis	n	m	30.6%			40.7%					0.7%
7	Draba reptans	In	m	13.9%	16.7%		23.3%					0.6%
7	Musineon divaricatum	n	P		5.6%		6.7%	0.7%				0.4%
7	Gutierrezia sarothrae	n	P	5.6%	2.8%	5.6%	6.7%				0.3%	0.4%
7	Astragalus drummondii	n	P		2.8%	5.6%	6.0%		0.7%			0.4%
7	Oxytropis lambertii	n	P	11.1%	11.1%	8.3%	4.0%					0.4%
7	Plantago patagonica	n	m	2.8%		8.3%	13.3%					0.4%
7	Unk. Forb -792	u	u		22.2%		0.7%					0.4%
7	Buchloe dactyloides	n	P		2.8%	8.3%	4.7%	0.3%				0.3%
7	Cirsium undulatum	n	m	2.8%	5.6%	8.3%	2.0%					0.3%
7	Opuntia polyacantha	n	P	2.8%		2.8%	6.0%				0.3%	0.3%
7	Astragalus tridactylicus	n	Р	2.8%	5.6%	8.3%	6.7%					0.3%
_ 7	Monarda pectinata	n	m	13.9%		8.3%	13.3%					0.3%
7	Allium textile	n	P		2.8%		9.3%					0.2%
7	Ratibida columnifera	n	P	5.6%	8.3%	2.8%	1.3%					0.2%
7	Lappula redowskii	n	m				14.0%					0.2%
7	Camelina microcarpa		m	19.4%	2.8%		11.3%					0.2%
7	Evolvulus nuttalianus	İn	P	8.3%			8.7%	0.3%				0.2%
7	Leucocrinum montanum	n	D		11.1%							0.2%
7	Geura coccinea	n	6		8.3%		1.3%					0.2%
7	Orobanche fasciculata	n	D		11.1%	·	1.3%					0.2%
7	Unk. Forb -752	u	u I	2.8%		8.3%	0.7%					0.2%
7	Unk. Forb -791	ū	u			11.1%	0.7%					0.2%
7	Unk, Forb -917	ū			2.8%			0.7%				0.2%
7	Stipe viridule	n	D			8.3%						0.1%
7	Vulpia octofiora	n	m				7.3%					0.1%
7	Lomatium oriental	2	D	8.3%			6.0%					0.1%
7	Artemisia dranunculus	n	0		2.8%		1.3%					0.1%
7	Carduus nuttans		m						0.3%			0.1%
7	Grindelia squarrosa	n	m			2.8%	3.3%					0.1%
7	Lactuca serriola		m				4.7%					0.1%
7	Lietris punctata	n	Ð		2.8%		2.0%					0.1%
7	Mechaeranthera pinnatifida	5	D.	5.6%	2.8%	2.8%	3.3%					0.1%
7	Podosnermum lacinatum		Ē				4.0%					0.1%
7	Tamxacum officianale		D		2.8%	2.8%					1	01%
7	Descurainia sophia		Ē				1.3%	0.3%				0.1%
H	Ensimum aspenum	'n	Ð					0.3%			t	018
	l esquemlla montana	2		11 1%			5 3%			t	t	01%
H	Sysimbrium Altiseimum			5.6%		t	4.0%	i		t		014
	Oountia macmohita			0.0 %		5.64	3.94			<u> </u>	<u>†</u>	
	Ceratnicies (anata	P	F-			3.0 %	3.34				 	
	Actracatic flavinerie	i.	E-			5.6%			t	<u>+</u>	t	1010
	Hynaricum narinzatum		E-		5 64	3.0 %				 	<u> · · · · · · · · · · · · · · · · · · ·</u>	0.12
	Delahinium vineene	F	r -		3.0 %	<u> </u>		0.394	<u> </u>	+	 	
++	Comentie umbellate	10	造				4 78	0.5%			<u> </u>	0.170
+	Link Earh 780	<u>[1]</u>	اين ا	5 69		2 92	1 204			<u> </u> `	<u> </u>	0.170
⊢4	Unk. FUD -700	10	Ľ.	5.078		<u> </u>	1.370		<u> </u>	 	 	0.170
+ 4	Unk. FOID -13U	14	-			 	4.070		ł	 	╂	
 4		In	12-				2./70	 	 	+	 	0.076
H4	Amorosia psikosiacnya	n.	P			<u> </u>	2 70			<u> </u>	{	0.076
⊢4	Inelesperma megapotamicum	In	12			 	4.1%	 	 	 	 	
⊢4		In	P		<u> </u>	<u> </u>	0.78	 	 	 	╂───	
1	Arabis glabra	0	m			<u> </u>	0.7%	 	 	 	_	0.0%
<u> </u>	Lepiaium censmorum	0	m			 	0./%	 	 	 	I	0.0%
-7	I noganis periolata	•	m			 	1.3%	ļ	<u> </u>	 	<u> </u>	0.0%
<u>1</u>	Silene scoulerii	<u>In</u>	P		<u> </u>	ļ	2.0%	Į	 		 	0.0%
17	i redescantia occidentalis	<u>In</u>	P.			<u> </u>	2.0%	 	Į	<u> </u>		0.0%
7	Agaioma marginata	n	U I	5.6%			1.3%	 	Į	 		0.0%
7	Astragalus shorbanus	n	IP_			2.8%		 	ļ	i		0.0%
1	Calochortus gunnisonii	m	IP.		2.8%		<u> </u>	{	Į		<u> </u>	0.0%
7	Polygonum sawatchense	<u>In</u>	m	5.6%		<u> </u>	1.3%	I	I	<u> </u>	<u> </u>	0.0%
7	Physalis virginiana	n	jų į	L	L	2.8%	0.7%	I	L	1	1	0.0%

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Amendix 3 (Cont.)				K of Our	drats Pre	sent		% Cover		1	
Appendix	_	_	2.204	jub/95	July96	A1194	June95	June96	Aug95	Augso	0.0%
Plot Species			Partsa	301933	2.8%					6 794	0.0%
711 lok Forb -874	u	U					17.3%	8.8%	8.8%	5.778	0.0%
7 Baro Gmund			L				30.0%	45.4%	47.9%	67.070	40.0%
7 Bale Crosse		L		44 704	80.6%	44.7%	4.9%	5.7%	7.3%	5.3%	10.37
A Deuterburg gracifis	n	P	50.0%	41.770	100.0%	90.0%	13.6%	4.7%			11.17
8 Boulerous ground	e	m	83.3%	100.0%	47.2%	51 3%	2.9%	1.7%	3.3%	3.0%	8.9%
8 Allysum minus	n	P	63.9%	15.0%	41.27	75 3%	2.9%	1.7%	2.3%	1.3%	7.9%
8 Arisoda porperez	In	P	55.6%	63.9%	00.07	08.09	8.8%	1.0%			7.0%
8 Agropyron sine a	e	m	100.0%	100.0%	53.07	00.09	5.89	0.7%			6.2%
8 Bromus aporticus	e	m	97.2%	94.4%	80.07	45 39	1 39	3.0%	0.3%	2.7%	5.3%
8 Erodium cicutandin	In	P	33.39	30.69	30.69	15.37	0.39	1.09	1.3%	0.7%	3.6%
8 Buchice decrycodes	In	Ip	36.19	38.99	5 30.69	22.07	4 4 09	1	1		3.2%
8 Psoralea tenuniora	le	in	63.99	6 72.29	6 2.87	6 49.37		0 79	1.39	0.3%	3.0%
8 Bromus tectorum	10	D	8.39	6 11.19	6 8.39	6 18.09	2.51	0.39	6 0.39	0.79	2.4%
8 Stipe comete		10	16.79	6 27.89	6 41.79	6 24.79		0.79	6 0.39	0.39	5 2.3%
8 Artemisia Ingida	Ť		13.99	6 25.0	6	33.3	6 1.5			0.79	6 2.2%
8 Convolvulus arvensis	÷		50.0	6 27.8	6 33.3	6 32.79	6 1.0	<u></u>	1 0 79	6 1.09	6 1.9%
8 Sphaerakea coccima	-†;		8.3	6 16.7	% 22.2°	6 8.0	×		1 03	6 0.79	6 1.9%
8 Artemisia Iudoviciana	-ť	: ;	22.2	6 13.9	6 41.7	\$ 20.0	×		2 - 0.2		1.8%
8 Centaurea diffusa	-+		27.8	¥ 33.3	% 22.2	% 2.0	% 1.6	b 0.7	<u>71</u>		
8 Sporobolus cryptandrus	_4										

App	endix 3 (Cont.)		1			trats Pre	sent	·	% Cove			1
	Causing .			Part94	Jub 95	July96	A194	June95	June96	Aug95	Aug96	IMP
	Poutelous cutionadula	-			Julyou	5.6%	4.0%		0.7%	0.3%	1.0%	1.4%
	Engerna diversas	n	m				0.7%	0.6%	0.3%		1.3%	1.2%
	Gudiernezia sarothrae	n	D		8.3%	19.4%	5.3%				1.0%	1.2%
	Schedonnardus paniculatus	n	D.		5.6%	25.0%	8.0%				0.7%	1.0%
	Aster faicatus	n	P		8.3%					0.3%	0.7%	0.8%
8	Podospermum lacinatum	e	E		2.8%	44.4%					L	0.8%
8	Plantago patagonica	ini	m	38.9%	5.6%	19.4%	26.0%			L		0.8%
	Musineon divaricatum	n	D	13.9%	16.7%		10.7%	0.3%	0.3%			0.7%
8	Tragopogon dubius	e	m	5.6%	16.7%	11.1%	8.7%	0.3%		L		0.7%
	Bromus inermis		D			8.3%	1.3%		0.3%		0.3%	0.6%
Fat	Rose arkansana	n	D								1.0%	0.6%
	Silene antimbina	e	m	38.9%	2.8%		27.3%				Ļ	0.5%
- ăl	Helianthus pumilus	n	D	2.8%	2.8%	5.6%	0.7%			0.3%		0.4%
8	Heterotheca villosa	n	P	11.1%	8.3%	8.3%	11.3%		l	<u> </u>		0.4%
8	Linum usitatissimum		m	11.1%	2.8%	13.9%	11.3%		L	ļ		0.4%
8	Evolvulus nuttalianus	n	P	13.9%	2.8%	2.8%	12.0%	·	L		Ļ	0.3%
- at	Unk Forb -954	u	U					I	L	0.3%	·	0.3%
	Koeleria macrantha	n	P				12.7%	<u></u>	L		↓	0.2%
1	Sporobolus cryptandrus	n	Ρ	·			14.7%		L			
8	Liatris punctata	n	P				L		L		0.3%	0.2%
8	Draba reptans	n	m	19.4%			12.09	<u>'</u>	 	 	. 	
8	Opuntia mecrorhiza	n	Ρ	5.6%	5.6%		4.7%	·	ļ		_	0.2%
8	Androsece occidentalis	n	m	2.8%			15.3%	·	 	i		
8	Panicum virgatum	n	P				5.3%	<u> </u>		·	_	0.1%
8	Poa compressa	e	P	8.3%			4.09	<u> </u>	L	_		0.1%
- ŝl	Vulpia octoflora	n	m	27.8%			9.3%	<u> </u>	L	Ļ	<u> </u>	0.1%
1 B	Allium textile	In	p		5.6%		1.39	<u> </u>			<u> </u>	0.1%
1 al	Ericeron flagellaris	In	D			5.6%				<u> </u>	4	0.1%
⊢ ă	Lactuca serriola		m		2.8%		2.79	6				0.1%
- ă	Laopula radowskii	In	m			· ·	4.09	6			<u> </u>	0.1%
H	Camelina microcarpa		m	1	2.8%		2.09	6				0.1%
H	Opuntia fracilis	În	D			2.8%	6.09	5				0.1%
H	Tradescentia occidentalis	In	6	†	2.8%	2.8%	5					0.1%
	Astragalus flexuosus	In	10	<u> </u>		1	4.09	6				0.1%
	Astragalus drummondii	In	6	2.8%		2.89	1.39	6				0.1%
	Deles cardida	1n	5				3.39	6				0.1%
		In	6		5.6%		1.39	6				0.1%
	Cours coccines	In	16		1	5.69	6 1.39	6				0.1%
	Upt Fort 789	Tu.	10		8.3%			T	T			0.1%
	Homeum jubatum	1	t <u>u</u>	2.8%		1	1.39	6				0.0%
	Opgonsis hymenoides	In	1D		1	1	0.79	6				0.0%
	Virce daire	In	5		1		0.79	6				0.0%
	Acception standohulla	1n	te.			2.89	6					0.0%
	Chorrothe mouse DeliseOslis	5	15		1		2.09	6				0.0%
1	Nothocalis cusoidata	t"	Б	1	1	1	2.0	6	L			0.0%
⊢ °	Descurainia sonhia	╡	T,	.t	1	1	2.0	6				0.0%
⊢ °	Lenidium campadina	Ť	ţ,	<u>.</u>	1	1	0.7	*				0.0%
<mark>ا ہ</mark>	Lepidum Compositor	1.	ţ,	; 	1	1	2.0	6			1	0.0%
۲å	Conchantha missourianeis	t,	1n	1	1	1	1.3	%	T	T		0.0%
⊢ °	Echinocarpue vindificare	╬	T,	8.39	6	1	2.0	*				0.0%
⊢-ª	Commines lanets	╬	Ť	+		1	0.7	%	T			0.0%
⊢ [∞]		1	ť	2.89	6	2.8	% 0.7	%				0.0%
⊢ [∞]		╡	Ť	1	1	+	1.3	%				0.0%
⊢ ĕ		╬	H۴,		+	1	27	%	1		1	0.0%
⊢ª	Scutellana Druoma	1	ΗĽ		+	+	1 07	%	1	1		0.0%
		+	H	<u> </u>	+	+	13	%	1	- -	1	0.0%
⊢ª	Daybeprius uneens	ť.	ť	<u> </u>	+	+	1 07	%				0.0%
	Pensiemon secunditions	ť	Ψ	·+	+	+	- <u>†-</u>	11.0	% 20.5	% 16.3	% 26.6	% 0.0%
		╉	+	+	+	+		34.7	% 55.9	% 64.8	% 50.5	% 0.0%
ª		-+-	+	52.89	6 83.30	6 88 9	673	% 8.4	% 88	% 6.e	% 8.7	% 21.19
		+	Ŧ	01 70	K 100 04	L 100.0	8 967	96 15.2	% 6.7	%	-	11.99
	Allysum minus	-	<u>+</u>	100.0	K 100.0	K 57 9	Q 07 1	% 85	%			5.49
	Bromus japonicus		+	41 7	K 96 40	× J2.0 × 77 9	a 54	86 06	96 10	96 10	96 07	96 5.19
Lª		-#	4	27.00	× 42.00	× 777	a 17 1	6 03	\$ 10	96 31	96 17	96 5.19
1	Psoralea tenumora	-ť	Ŧ	21.0	× 10.5	× <u> </u>	QL 71 7	GK <u>4</u> 0	% 0	796	<u> </u>	4.49
L	Erochum cicutanum	+	1	12.2	x 20.3	20.0 X 467	A 16	96 1 0	%	1 0 1	1% 31	3% 4 19
Ľ	Buchice dectyloides	-#	Ч	30.6	R 22.2	N 10./	70 10./		S	796 1	3% 01	36 3.89
	Convolvulus arvensis	-4	1	2 - 20.1	70 30.1	70 41./ N 22 6			<u>x</u> 0.1			196 3.51
	B Heterotheca villosa	-11	n li	<u> </u>	70 44.4 V 70 7	<u>70,000,000</u>		20 1.2		<u> </u>	<u> </u>	2 41
9	9 Bromus tectorum	- 14	0 I	ກ 25.0	າວ _52.8	70	1 00.4	70 0.0	70		<u> </u>	3.47

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App	pendix 3 (Cont.)					Lucia Des		T	* (Cover			1	
		_			% of Qua	drats File	A1194	hines	SLiur	96 A	ua95	Aug96	IMP	
Plot	Species	_		Part94	July95	JUIVED	40.7	1 06		0%	0.7%	0.7%	3	49
9	Sphaeralcea coccinia	n	P	47.2%	44.47	30.1%	32.0	1 06	ĩ i	7%		1.0%	2	.7%
9	Aristida purpurea	Π	P	11.1%	38.9%	30.17	14.09		2 7	396	0.3%		2	1%
9	Sporobolus cryptandrus	n	P.	25.0%	33.3%	30.17	45.20			0%		0.7%	1 3	0%
9	Artemisia frigida	n	P	33.3%	11.1%	8.370	45.5	0.3						0%
ğ	Plantago patagonica	Л	m	61.1%	36.1%	41.7%	50.7		-+-			2.00		
	Ericeron divergens	n	m							1.070	0.74	2.07	+	.0 78
	Stice comete	n	Ð	5.6%	5.6%	5.6%	10.7	<u>6 1.0</u>		0.7%	0.7%	0.37	· · · ·	./ 70
	Supa comata		5	13.9%	2.8%	16.7%	15.3	%			0.7%	1.09		.7%
		-	1	5.6%	33.3%	30.6%	24.7	6 0.3	8% (0.3%			11	.6%
_9	Tragopogon oublus	ŀ	-	9.3%	8 3%	27.8%	2.0	8		-	0.3%	0.79		.3%
_ 9	Schedonnardus paniculatus	n	IP.	0.370	44.4%	13.04	53	K 0.3	3%	0.3%	0.3%	0.39	5	2%
9	Centaurea diffusa	•	U	<u> </u>	11.170	10.0 4	140	×		03%	0.7%			1.2%
9	Evolvulus nuttalianus	n	IP.	11.1%	5.67	11.17				0.3%		1		1.0%
ģ	Podospermum lacinatum	e	m	I	25.0%	30.6%	0./	2	_	0.3 %		<u> </u>	17	
ģ	Bouteloua curtipendula	n	P	16.7%	11.1%	13.99	5.3	*		0.77		- 0.20	+-;	
-ř	Giderrazia sanothrae	Īn	Б	2.8%	8.3%	11.19	8.0	<u>×</u>		0.3%		1 0.37	4	0.070
-	Cilege estimation		Ē	33.3%	8.3%		40.0	*					1	0.7%
		ĥ	-	13.9%	2.89	1	22.0	%						0.4%
	Vulpia octoriora	10	1	1-10.0 ~			40	*		0.7%			1	0.4%
- 6	Aster faicatus	1n	16	10.00	E 00	0.24	1 07	%	3%			T	T	0.4%
5	Opuntia macrorhiza	IU	₽.	19.4%	5.07	0.07	1 ***	2 1				1	1	0.4%
ş	Opuntia polyacantha	in	P	5.6%	8.3%	13.97	2.1		-+-			+		04%
	Astregalus drummondii	n	P		8.39	13.99	2.7	~ _			0.00		+	
	Vucce glauce	In	P					_			0.31	4		1000
	Afueineon diversetutt	In	1p	11.19	13.99		3.3	% 0.	3%			<u> </u>		0.3%
		t	t,	t	1	1.	4.7	**			0.39	<u> </u>		0.3%
	Artemisia dranunculus	t,	12	+	+	18.7	<u>دا</u>		T					0.3%
	Erigeron flagellaris	Τų	ĮΡ.		10.40	10.71		14					Т	0.3%
	9 Lepidium densiflorum		m		19.47	40.7		2				-		0.3%
-	Echinocereus vindifiorus	In	P	2.89	•	10./1	1.	770	_	0.3%			+	0.3%
	9 Opuntia fragilis	'n	P			11.1	61	_	_+	0.37		+		0.34
	Geura coccinee	1n	D	T	11.19	6 8.3	6 <u>1.</u>	5%						0.370
		t,		1						0.3%				0.2%
	9 Lesquereila montaria	÷		2.89	4		5.	3%		0.3%				0.2%
	9 Scutellaria brittonia	17	ΨP	2.07	E CI	1 56	K 5	i K						0.2%
	9 Linum usitatissimum	1		5.07	5 3.07	5.0				_				0.2%
	9 Unk. Forb -789	L	l u		11.19	•							-+-	0 1%
⊢	9 Hordeum jubatum	Tr	i lu				2.		37				-+-	0.18
┣		٦,	1 D		T	8.3	×			_		_	-+-	0.170
⊢	O Cinium undulatum	t,		, I	1			0	.3%				_	0.1%
⊢		÷.		13.99	6	2.8	% 3 .	3%			l			0.1%
╘	9 Liams punctate	ť	<u>'</u>	5.69			5	3%						0.1%
	9 Camelina microcarpa	4	1	1 3.0			+	34			1			0.1%
	9 Draba reptans	4	10	n <u>25.07</u>			-+ -;;	794			t			0.1%
Г	9 Coryphantha missouriensis	1	n ig	2.8	6 8.3		. •	<u></u>			<u>+</u>		-	0.1%
Г	9 Astragalus agrestis		n ip			5.6	<u>></u>		-+				-+-	018
F	9 Androsece occidentalis		n In	n			8	0%					-+-	0.1 %
H	Olliak Forb 920	-	ulu		8.3	*						_	_	0.1%
-	9 Onk. Pore-520	Ť		· · · · · ·			3	3%			1			0.0%
F		ť	÷ť		-		2	.0%	T					0.0%
L	9 Allium textile	4	<u>п</u> П	<u> </u>		94	<u> </u>				1		T	0.0%
L	9 Dyssodia papposa	_	<u>n I</u>	<u>n</u>	4.0	~		78	+		1			0.0%
Г	9 Nothocalis cuspidata		nj	2			14	- 100	+		+		-+	0.0%
	9 Hymenopappus filifolius	J	n li			_	2	.0%	\rightarrow		+		-+	0.00
۲	9 Leopula redowskii	٦	n li	m 8.3	%		2	.0%			+	<u> </u>	-+	0.0%
F	9 Tradescentia occidentalis		n li		2.8	%					4	_		0.0%
H			n li				1	.3%					_	0.0%
F		-	ار	<u>_</u>		21	3%							0.0%
L	9 Deles candida	_	-	<u></u>	- 20	%		7%	_		T		T	0.0%
E	9 Dalea purpurea	_	nļ	₽┥────			-+->	78			+		-1	0.09
Г	9 Monarda pectinata		n	m			-+				+		-+	0.0%
Г	9 Oxybaphus linearis		n	P									-+	0.00
F	9 Unk. Forb -966		u	u		2.	8%						-	0.01
H	9 Bara Ground							1	5.2%	22.29	% 15.	5% 23	1%	0.09
F			H					3	3.0%	48.8	66.	8% 54	.5%	0.09
F	alrue	_	H		96 75 1	196 83	3% 6	7%	0.9%	10.0	× 12.	4% 8	.0%	22.89
L	10 Boutelous gracilis	_	만		MK 024	A 00.		04	5.6%	54	× 3	9% 1	.3%	11.19
Г	10 Agropyron smithii		n j	P /5.0	78 0J.	00.		100	4.00		<u> </u>	<u> </u>		8.89
Г	10 Allysum minus		•	m <u>66.</u> 7	76 72.	2% 84	476 4	1 1 1	1.470		<u></u>	_ 		7.00
F	10 Bromus japonicus			m 86.1	% 75.	7% 77 .	5% 6	7.3%	4.6%	3.7	2-12			7.07
F	10 Stine comate	-	5	D 11.1	% 33.	3% 30.	6% 1	1.3%	1.3%	2.7	% 2 .	076 3	.0%	2.07
H		-	H	u l	19	4% 25	0% 1	2.0%	1.0%	2.3	% 2.	0% 3	.3%	5.59
F	10 Centauros cinuse	-	H	10	196 2	8% 19	4% 1	4.7%	0.7%	0.7	% 2.	0% 2	.3%	3.79
L	10 Buchice deciyloides		tu l	P 18.			64	38	1 04	112	% 1	6% 0	.7%	2.49
Г	10 Yucce gleuce		n i	p 13.	78 0.	070 0	0.00	10.07	1.070	<u> </u>		30 7	3%	2.29
r	10 Spheeralcee coccinie		n	P 5.	5% 38.	9% 19	.4% 2	3.3%	0.3%	1 0.3			22	20
F	10 Artemisia frigida		n	p 19.	4% 16.	7% 25	.0% 1	2.0%	1.0%	0.7	% 0	100	1.570	2.07
ŀ	10 Bromite tector m			m	44	4%	11	2.7%	3.0%					1.9
			19											

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Pind Species Pind 1 Aude State Inneed Lances Linces Linces <thlinces< th=""> Linces <thlinces< th=""></thlinces<></thlinces<>	Арр	endix 3 (Cont.)		r			K of Our	drat	Pres	ent	T		% Cover					
Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck Deck <thdeck< th=""> Deck Deck <thd< td=""><td></td><td></td><td>-</td><td>+</td><td>Dart</td><td>04 T.</td><td>Julv95</td><td>Juh</td><td>796 T</td><td>Aliga</td><td>Ju</td><td>ne95</td><td>June96</td><td>Aug9</td><td>5 /</td><td>Aug96</td><td>IMP</td><td></td></thd<></thdeck<>			-	+	Dart	04 T.	Julv95	Juh	796 T	Aliga	Ju	ne95	June96	Aug9	5 /	Aug96	IMP	
10 Participation 11 12 12.78 13.98 10.78 1.28 10 Predication 11 12 12.78 12.78 12.78 10 Predication 11 12 12.78 12.78 12.78 10 Predication 11 12 12.78 12.78 12.78 10 Predication 11 12 13.78 13.78 13.78 13.78 13.78 10 Predication 11 12 33.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78 13.78	Plot	Species		1	4	1.7%	25.0%	3	0.6%	31.39	6				_		1.	
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11	Bouteloua cumpendula	-		5	11.19	6 8	3%	16.79	6 21.	570	1.070	2.07	1 23	5 0.	7%	2.1%
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17	Artemisia frigida		n l	러	20.0	2 1 3	9%	16.79	6 14.	7%	2.0%	0.3			net-	1 6%
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H	Stice comata		n	P	5.6		004	22.20	x 20	0%	0.3%		0.	5%	╦╂╌	1.5%
L1	Supa comicae coccinia		n	ρl	50.0	% 2/	.070	45.7	2 21	396	0.3%	0.3	% 0.	3% 0	7%	1.370
	Sphaeraicea cooming		In	P	27.8	% 11	.1%	10./		794	0.3%	0.3	%			1.3%
1	1 Astragalus liexoosos		le	m				41./	70 10	770	0.0	1.0	8	1	.0%	1.1%
1	1 Linum usitabssimum		1	D	8.3	% 2	3.3%	5.6	% 10	./ 70	0.7%	10	*			1.0%
1	1 Buchioe dectyloides	_	1		5.6	% 19	3.4%	8.3	<u>% 1</u>	.3%	0.170		a i	6% 0	.3%	1.0%
	1 Bromus tectorum		÷	-	11 1	8	2.8%	2.8	% 7	.3%	0.3%	1 0.3				0.9%
	1 Psorales tenuifiora		1	P-		96	2.8%		16	i.0%	1.3%	0.3	20	-+-		0.9%
- Fi	1 Musineon divaricatum	_	ᄪ	ĮΡ.			6.7%	13.9	76 6	5.0%	0.3%	0.3	- 100			0.9%
H	1 Podospermum lacinatum	_	e	m	<u> </u>		1 1 %	83	1% 12	2.0%	1.0%		_+	~ ~	294	0.8%
H	1 Tracopogon dubius	_	•	m		-+	0 396	28	3%	4.7%	0.3%	<u> </u>		070 1	1.3 %	0.8%
	1 Machaeranthera pinnatifida		In	P	<u> </u>		2 28	<u> </u>		8.0%	0.7%	6				0.9%
- E	11 Campling microcarpa	_	e	m	13.	376 4	4.270	44.		6.0%		0.	3%		0.370	0.0 %
H			1	I P	2.	8% 1	1.170	4		7 396	0.39	6 0.	3% 0	.6%	0.3%	0.070
			Tr	I P				- 2.		9.7%						0.6%
	11 Enogonum endourn		Ī	1 P			6.7%	5.	으~	0.1 2	0.39	6	$- \tau \circ$.3%	0.7%	0.6%
L	11 Hehanmus purmus		T	10						0.070	0.01	2			0.3%	0.5%
L	11 Rose arkansana		-		8	3%				3.370	0.0	<u> </u>				0.5%
Г	11 Artemisia Iudoviciana		-ť		1 2	8%	5.6%	6	11	4.0%	0.5	<u></u>				0.5%
L L	11 Descurainia pinnata	_	-ť		+	696				9.3%	0.3	<u>~</u>				0.5%
- T	11 Draba reptans	_	-+	<u>n (n</u>	1 10	7%	16 79	6 2	.8%	4.0%					1.0%	0.5%
t t	11 Sysimbrium altissimum	_	-	<u>e n</u>	<u></u>		5.69	6							1.0 %	0.5%
- H	111 Atriplex canescens	_			<u>'</u>	00/	11 10	<u>z</u> †		12.0%					0.29	0.5%
ł	11 Linum lewisii	_		nit	21	.070	5.60		-+	2.0%).6%		0.370	0.5 %
	11 Ovobaphus linearis			nj	<u>-</u>		3.0	N 45	794				.3%			0.070
	11 Dumpy cristilis			0			<u> </u>	201 19	<u></u>	10.7%	t					0.470
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	11 Plantago palagonica			tr†	0	8.3%		1		0./%	4	-+-				0.3%
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	tel the monopoorts filitofius			$-T_1$	nie I		<u> </u>	2.070			_					

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ŀ	12 200	ioua gracilis			P_		0.0%	100	0%	100.0	9% 8	5.0	1% 7.	끍	3.0	at-	6.5%	3.3	% 7	.3%	
ŀ	12 800	us japonicus	_	-10	m	1-"	5.69	22	2%	38.	3% 3	0.0	96 3	22	53	35	2.7%	6.3	%	2%	1
ł	12 And	opogon gerardii		ᆤ	HP.	┼──	3.0 .	19	.4%	13.	9%	4.0			3.	6%	2.0%	1.7	96	5.8%	4
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	12 6	ura coccinea	_	_		<u>e</u> +-			13.9%	1	3.9%			0.37	4-					0.9	2
	12100	mandra umbellata			臣	<u>*</u> +	36.	1%	8.3%	, 2	5.0%	Z	9.370		+-					8.0	2
	1210	ola nuttallii					19.	4%	16.7%	<u> </u> 2	5.0%	1	4.17	0.39	6		0.7	%	0.7%	0.0	70
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	15	Aster faicatus			-+	믭	+		2.	8%	8.3	×	0.7%	+						1	0.3%
	12	Cirsium undulatum				10	+				8.3	*	12.0%	<u>-</u>			T		-	_	0.37
	12	Koelena macrantha	_				1					_	24.17	<u> </u>							0.37
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	12	Convolvulus arvensis	-	_		In Is			<u> </u>			_	6.79	6					<u>103</u>		0.2%
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	12	Oenothera Dracincarp				n	2		<u> </u>) <u>R</u> M			11.3	*		1-	_+_		+	-+-	0.2%
	12	Stepa neomexicana				n		11.19	<u>₽_</u>		 	-	12.0	*	_				+	-+	0.2%
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H	2) Ericemon flagellaris		n	<u>P</u>						7%			_		 *	
	2 Engeron in cuspidata		n	ΡÌ	2.8	%	+		-1-1	396				_		
Ľ	2 Nomocaus cuspies		n	m					-+	794		<u> </u>			0	.0%
1	2 Cryptantna Virgala	-	n		2.8	%				./ 70			-+-		0	.0%
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-	12 Lepidum densifiorum		•	m				21	294	-					-+	1.0 70
- I-	12 Lopidum cionete		In	P	I			<u> </u>		2.0%		1				1.070
L	12 Stanleya pilitate		In	m				<u> </u>				+				0.0%
	12 Corastum nutaris	_	10	6						2.070		+				0.0%
Ē	12 Astragalus drummoriou	_	1n	15				1		2.0%		+				0.0%
r	12 Astragalus shortanus	_	+	12	5	6%		1		1.3%						0.0%
	12 Psoralea argophylia		_ <u> n</u>	₽₽.	↓ ≚	<u>~~</u>		+	_	2.0%					+	0.0%
- H	121 Vicia americana	_	n	P		_+-		+		1.3%						0.0 %
- F	12 Prese tempo secundifiorus		n	P				+		0.7%						0.070
- F	12 Persienan en		Ju	lu	2	8%		4		2.0%						0.0%
L	12 Unk. Ford -002		Τu	īΙu	5	.6%				2.0 %		-+-				0.0%
- [12 Unk. Forb -805		+		2	.8%				0.7%	15	. +	7.6%	6.5%	11.7%	0.0%
1	12 Unk. Forb -808		-+*	4	+			T			4.5	2	1.0 7	59 494	49 3%	0.0%
	12 Bare Ground		+	+-	+				T		34.1	% 5	0.170	<u>20.4771</u>	7.24	10 4%
	12 Litter			4	╉╼╼╤╸		66 CO	× 85	3.9%	66.7%	6.7	%	1.4%	8.0%		0.00
	13 Andronogon gerardii			n is	1 6	.570	30.00	2 2	194	29 3%	10.3	%	6.4%	3.0%	4.2%	3.070
	10 Routebue cutinendule		T		3).6%	11.0			33 304	38	196	3.4%	5.0%	8.5%	0.270
	13 BOUTEROUE CUI OPERATIO			n li	6 6	9%	44.4	70 4	(47)	50.00	1-2	w t	2.0%	6.0%	3.3%	7.6%
	13 Bouteroua gracins		-+	<u>,</u> t	4	1.7%	66.7	% 4	4.4%	30.0%	1 <u>0.1</u>	<u></u>	240	4.0%	2.3%	6.6%
	13 Helianthus pumilus		-+	÷ť		0.0%	63.9	% 5	2.8%	57.3%	1 5.			3 694	3.9%	6.4%
	13 Aristida purpurea	_		-++	<u>+</u> - 4	7 294	75.0	% 8	3.3%	54.0%	1.	5%	2.070	3.07		4.9%
	13 Stipe neomexicane			<u>n </u>	막		100.0	96 10	0.0%	56.09	4.	2%	1.7%		+	3.02
	13 Albeum minus			•	m 8	0.170	<u></u>	2 40	0.0%	38 79	6 2	6%	0.7%			3.070
				•	m 6	9.4%	972	210	2.0 7	14 09		296	1.7%	1.7%	2.0%	3.1%
	13 Bromus japonicos	-		n		3.9%		1	3.970	14.07	17		1 494	2.3%	0.7%	3.0%
	13 Schizecnynum scopenum		_		<u></u>	2.8%	16.7	7% 2	22.2%	54.09	위	22	0.70	0.7%		2.3%
	13 Evolvulus nuttalianus	_	_	H	5	5.0%	27.8	3%		50.0%	6 3	220	0./70	4 000	0.7%	2.2%
	13 Linum lewisii			ta l	K 1 - 2	0.00	28 0	396	33.3%	28.7	6 1	.0%	0.3%	1.0%	4 00	2.0%
	13 Psoralea tenuiflora			n	P	3.4 70		2961	33.3%	18.7	6 0	.6%	1.4%	L	1.070	1.04
	13 Astronalus tridectvlicus			n	IP				47 204	39.7	<u>x</u>	-1		0.7%		1.07
	10 Advantage Anniela			in	P	30.6%	50.	1000	<u>+1 270</u>	44.7	x n	694	0.3%	0.7%	1.0%	1.9%
	13 Artemisia Ingros		_	In		8.3%	36.	1%	36.1%	<u>611</u>	러분	<u></u>	0.3%	0.7%		1.7%
	13 Gutierrezia sarouwae		_	t-	151-	27.8%	33.	3%	<u>38.9%</u>	27.3	<u>» (</u>	070	0.00	<u></u>	1	1.7%
	13 Hymenopappus filitolius	_	_	#	<u>₩</u>	77 794	61	196	50.0%	32.0	%			 	+	1 2%
	13 Lesquerella montana		_	IU	<u> "</u>	12.27	<u>بي</u>	80		38.0	%		1.7%	L		4 400
	13 Musineon divaricatum			İn		10./%	<u> </u>	- 1 <u>28</u>	12 04	40	96 0).6%	0.3%	0.3%	0.3%	1.17
	13 missinger village			In	P	2.8%	21	070	13.37	╢╶╦╡	a t -	1 0%	0.7%	5	0.3%	1.1%
	13 Meterou Acca Vincos	icu	m	In	P		8	.3%	21.0%	4 - 4- 4	~ -		<u> </u>	1	2.0%	1.1%
	13 Thelesperma megapolam			Ť	101	16.7%	5	.6%	16.7%	10.7	20	10.070 10.070	4 40	d	1	1.0%
	13 Hybanthus verbcillatus	_		-#2	<u>+-</u> +-		22	2%		3.3	3%	0.3%	1.47	4	+	0.99
	13 Stipe comata			1	484-	22.20	1 10	494	22.29	22.0	2%	0.3%			1	1. <u></u>
				11	וטו	33.38	1 13	·····								

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Арр	endix 3 (Cont.)		1		N of Our	drats Pres	sent l		% Cove	r		
	<u></u>			D-r#94	101/200	Julv96	A194	June95	June96	Aug95	Aug96	IMP
42	Species		_	5.6%	30.6%	27.8%	4.0%		0.3%			0.9%
13	Compoder umboliste	5		22.2%	41.7%	8.3%	7.3%			0.7%		0.9%
13		n	5	66.7%	30.6%	2.8%	41.3%					0.9%
13	Peutoleus birrute	5	2	33.396	2.8%	16.7%	12.0%	1.3%		0.3%		0.8%
13		-	2	~~~~		41.7%					1.0%	0.8%
13	Linum usitalissimum	-		16.7%	11 1%	16.7%	8.0%				0.7%	0.7%
13			2	10.7 2		2.8%	10,7%	0.6%	0.3%	0.3%		0.6%
13		-	P. 1		11 196		1.3%	1.0%				0.4%
13	Cryptanna virgala	10		41 7%			34.0%					0.4%
13	Draba replans	1		2.8%	5.6%	5.6%	8.7%			T	0.3%	0.4%
13	Paronycnia jamesi	<u> -</u>	2	2.0 %	16.7%	2.8%	1.3%			0.3%		0.4%
13		<u> n</u>	P		10.7 %	2.0 %	4.0%	0.3%	0.3%	1	1	0.3%
13	Koelena macranina	In-	P				2.7%		0.7%		1	0.3%
13	Yucca glauca	<u>In</u>	P_	2.997		27.8%	0.7%			1	1	0.3%
13	Centaurea diffusa	10	u	2.070		21.0 %	0.1~			1	1.0%	0.3%
13	Oligoneuron ngidum	<u>In</u>	ĮP.	44 484	ļ		22 08			1	1	0.3%
13	Descurainia sophia	•	m	44.4%	46.7%	2 294	22.0 %			1		0.3%
13	Opuntia macromiza	n	P.	8.3%	10./70	2.070	1 304	0.3%	 		+	0.3%
13	Tragia ramosa	n	ļΡ_	ļ	2.8%	13.370	1.370	0.5 %	╂────		0.7%	0.3%
13	Gaura coccinea	in	P.				0.070		 	+	0.3%	0.3%
13	Oenothera brachycarpa	n	IP.	8.3%			11.3%	0.00	 	0.39	1	0.3%
13	Eriogonum alatum	n	P		L	ļ	0.7%	0.0%	+	+	¥	1 0 20
13	Allium textile	n	Р	33.3%	ļ		14.0%	┣	╂	+	0.30	
13	Artemisia ludoviciana	n	P		·	8.3%	2.0%	 			0.3%	0.2%
13	Aster falcatus	n	P			8.3%	L	 	-	. 	1 0.27	<u><u><u>'</u></u></u>
13	Engeron flagellaris	n	Ρ	2.8%	2.8%		4.0%	<u> </u>	0.39	<u> </u>	+	
13	Lietris punctata	n	P		5.6%	2.8%	6.7%	L	ļ	<u> </u>	+	
113	Senecio plattensis	In	Ĭр		2.8%		6.0%			_	0.39	0.2%
13	Teravecum officianale	e	Б		2.8%	2.8%	1.3%		0.39	6		0.2%
13	Comtactine ismesti	Îñ	10	13.9%		11.1%	4.7%					0.2%
13	Medanzia lanceolata	In	15	1		· ·	13.3%	0.3%				0.2%
13	Comoline microceme		1m	2.8%	5.6%		13.3%				1	0.2%
13	Camerina microcarpa		5	27.8%			14.0%					0.2%
13		1.	1	16.7%		8.3%	10.7%		T			0.2%
13	Erysimum asperum	造	툲	5.6%		2.8%	6.0%	1		0.39	6	0.2%
13	Chamaesyce lencieni	쁥	The second	2.8%			9.3%	0.39	5			0.2%
13	Euphorbia robusta	+-	뽄	22.00	<u></u>		12.7%	1	1			0.2%
13	Euphorbia spatriulata	+	1		·		7 39	0.39				0.2%
13	Leucocnnum montanum	<u>+n</u>	1P	10.49		+	4 79			0.3	8	0.2%
13	Unk. Forb -814	14	1u	15.47		+	<u> </u>	0.39	6	-		0.1%
13	Carex heliophylla	ᄪ	HP.		0.20		0.79		·			0.1%
13	Bromus tectorum	-19	I	2.07	× 5.0	5.6%	2	<u> </u>	+			0.1%
13	Buchioe dectyloides	1	P	∔		9.29	<u></u>	+	+			0.1%
13	Poa compressa	10	P		<u> </u>	0.37	0 70		+			0.1%
[13	Ambrosia psilostachya	1	1P	1		2.07	2 20		+			0 1%
13	Cirsium undulatum	. [Ļπ	5.69	8.39	¥	1 3.37	°	+	<u>_</u>		0.1%
13	Iva xanthifolia		lπ	<u> </u>			1 1 70		+	<u>~</u>		
13	Lactuca serriola		Π	1 2.89	6	2.89	<u><u><u> </u></u></u>	?				0.1%
13	Machaeranthera pinnatifida	ſ	ı İp	2.89	6		1.39	아	+	_		- 0.1%
13	Townsendia exscape	I	۱Þ	1		2.89	b 7.39	<u></u>	+			
13	Sysimbrium altissimum		n	1 22.29	6[<u> </u>	12.09	<u> </u>		+		
13	Astragalus bisulcatus	1	ιJP				0.79	<u>9</u>	- 	1 0.3	×	U.1%
17	Hedysarum boreale	1					9.39	6				
	Psoralea argophylla	T	n IP	25.09	6		6.0	6	<u> </u>	<u> </u>		0.1%
1	Amemone polyathemos	1	n În	n				1			0.3	<u>% 0.1%</u>
-	Bohoonum so	T	J In	n		5.69	*				_	0.1%
H÷	Castillaia sassiflora	Ť	n të	5.6	16	1	2.7	6 0.3	%			0.1%
	11 Jak Earth 817		; li	8.3	6	1	7.3	*				0.1%
L.	211 July Earth 062	ť	<u>, 1.</u>			5.6	*					0.1%
	5 UNK. POID -505	+	#	; 	+		0.7	*				0.0%
1	Asciepias speciosa	-ť	-	<u>_</u>	+	28	*	+	1	1		0.0%
1	3 Carduus nuttans	-ť	-	<u>" </u>	1 30	<u>k</u>	~ 	+				0.04
1	3 Grindella squarrosa	4	-#	<u>"</u>		~	20	<u>st</u>				0.0%
1	3 Nothocalis cuspidata	-+	nμ	2			+	21				10.04
1	3 Lappula redowskii	4	n r	n				~				0.07
1	3 Triodanis perfoliata		e I	n <u> 13.9</u>	76		1 33	~	-+			
1	3 Silene antimhina		•	n <u>5.6</u>	%		1.3	2			-+	
1	3 Astragalus flexuosus	Ι	n	5.6	%		1.3	2				
T	3 Astragalus drummondii		n li	<u> </u>			3.3	<u>»</u>				
H	3 Astragalus shortianus		nli	b		T	0.7	%	_		_	0.09
H	3 Deles candida		n li	P			0.7	%				0.09
H	3 Zynadenos venenosus		n li	P			2.7	%				0.09
			· · · ·									

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Арр	endix 3 (Cont.)		1	_		% 0	f Quad	rats	Pres	nt	T		& Cove	HT					-
		-	-	Par	94	Juh	/95	luty:	6 /	U194	JL	ine95 .	June96	Aug	95 /	9ويں\	<u>6 IN</u>		4
Plot		nt	0							2.0	%			<u> </u>				0.07	
13		n	D		2.8%					0.7	<u>%</u>			┢──	-+		-+-	0.01	뷥
13	Composis anamata	n	m							1.3	%	+			+		-+-	0.0	H
13	Rosa arkansana	n	р			_				0.7	<u>-</u>	+		+			-+-	0.0	Ĩ
13	Penstemon secundifiorus	n	P		8.3%					2.0	20-			╂	\rightarrow		-+-	0.0	Ĩ
-13	Link Forb -809	u	ų							3.3	~	+		╈			-+-	0.0	Ĩ.
13	Unk Forb -810	υ	u			_				0.7	2			╉━╸				0.0	Ĩ
13	Unk, Forb -811	u	υ							0.7	2			+				0.0	×
13	Unk, Forb -813	U	u		2.8%				+	0.7		14 1%	12.89	1 13	1.6%	13.	0%	0.0	%
13	Bare Ground			L_		<u> </u>	+					25.6%	54.49	4	.4%	44.	6%	0.0	%
13	Litter	_	I	 			10 00	- 0/	194	63.	204	7 9%	7.69	6 8	3.0%	12.	2%	14.1	*
14	Bouteloua gracilis	n	P	+	07.09		37.2%	- 67	294	90.0	796	18.3%	4.39	1				9.3	%
14	Bromus japonicus	0	m		91270		22 384	86	19	74.0	0%	3.5%	3.39	6 6	5.7%	4.	0%	8.8	%
14	Agropyron smithii		P		86 196	H	5 6%	6	3.9%	73.	3%	2.5%	1.09	6	2.6%	1.	.7%	4.9	<u>%</u>
14	Artemisia frigida	n	IP.		41 7%	1	51.1%	8	3.9%	43.	3%	1.3%	2.69	6		2.	.0%	4.5	2
14	Tragopogon dubius			\mathbf{T}	91.7%	1	00.0%	4	1.7%	60.	7%	7.9%					_	4.4	2
14	Bromus tectorum	5	5	+	41.7%	1	41.7%	3	8.9%	32.	7%	0.9%	1.61	<u>6</u>	1.6%	4	.0%	4.1	2
14	Buchice dactyloides		5	┢			8.3%			8.	7%	5.0%	2.39	6	1.6%	5	.0%	4.1	귀
14		ħ	Ē	1-	63.9%		36.1%	3	3.3%	48.	0%	2.2%	0.79	*	2.6%	⊢ <u>‡</u>	370	3.6	170
14	Soberales cocinis	'n	Þ	T	61.1%	I	61.1%	7.	2.2%	46.	7%	1.3%		.	<u>0.3%</u>	⊢ ×Ω	12	3.1	
14	Hotorothaca villosa	In	Þ	T	22.2%		8.3%	1	3.9%	28.	0%	2.5%	0.3	~-	1.5%	⊢ ‡	394	2.1	
14	Thelesperma megapotamicum	In	p	T	41.7%		27.8%	3	3.3%	14.	7%	0.3%	-		2.07	┝╌╡	394	2.0	
14	Solidago nana	n	P	Τ						<u> </u>	<u></u>	1.3%	2.0	읎는	1 24	╞╴╡	3%	19	
17	Bouteloua curtipendula	Π.	P	Γ	11.1%		2.8%	3	6.1%	3		1.5%	1.0	21-	1.07	+	~~	1.1	3%
114	Allysum minus		In			+	8.3%	12	5.0%	24	200	1.070	2.0	a t-	0.3%	1 1	3%	1.	3%
14	Aristida purpurea	ļn	P		38.9%	<u> </u>	11.1%	3	6.1%	123	<u>~~</u>	0.070	03	a t-	2.2%		2.0%	1.	5%
14	Dipsacus sylvestris		n	1		┢		<u> </u>		+ -	00	0.094	07	í t-	1.0%		.0%	1.	1%
14	Centaurea diffusa	0	u			┢	10 70	┝.,	2 04	1 20	7	0.37	<u> </u>	-			.7%	1.	0%
14	Lactuca serriola	le	1 I	<u>ч</u>	27.8%	-	16./%	1	3.970	1 32	7%	0.6%	0.3	8			0.3%	1.	0%
14	Opuntia polyacantha	In	ĽΡ	4-	41.77	<u>-</u> -	19.470	+	6.370	1 1	0%	0.6%	1	<u> </u>		17	2.0%	1.	0%
14	Astragalus agrestis	17	ιp	4-	2.67		22.28		3 94	10	0%		0.3	%			0.3%	0.	9%
14	Astragalus drummondii	1	1P	-	2.07	2	16.7%		3.9%	32	.0%						0.3%	0.	9%
14	Linum usitatissimum	-			21.01	-	10.7 2	t		8	.7%	0.9%	0.3	1%	1.09	6		0.	8%
14	Poe compresse	÷	1	<u>+</u> +	19.49	6	27.8%	1 1	1.1%	16	.0%	0.39						0.	8%
11	Sitanion longitolium	÷		+-	10.47	╧┼╴	5.6%			10	.7%	0.99			0.69	6	1.0%	0	876
11		┽		it		+	19.4%		30.6%	5			T	_	0.39	<u> </u>		0	87
1	1 Course appointer	ť		it.	16.79	6	19.4%		22.2%	6 10).7%	0.39	6	-+		╧	_	L N	.070
	4 Gaura coccines	fi		5	11.19	6			8.39	6 6	5.7%	0.99	6	_	1.09	<u>ы</u>		L N	
+	A Approversion	T	0 1	51		Т				\mathbf{L}).7%	L	11	5%		+-	0.294	H	
H	A Lietris punctata	1	n li	5	13.99	%	5.69	6	13.99	6	5.3%	0.69	6	╦┼		+-	0.3%	H-ŏ	8%
H	A Taraxacum officianale	1	e	P			8.39	6			3.3%	0.99	<u>6 0.</u>			+-		t ă	6%
H	4 Sysimbrium altissimum		•	m	25.0	%	11.19	6	8.39	<u>뇌 7</u>	0.7%	0.3		nact		-			.6%
Hi	4 Salvie aethiopis		•	m		_		╀	5.69	9-9	U./%			391		+		tõ	.5%
Ti	4 Antemisia dranunculus	1	n	e L	-	<u>_</u> +	11.19		5.67	┡	1.370	0.3	<u> </u>	<u>~~</u> †	_	+).5%
1	4 Drabe reptans	_	n	<u></u> ∎↓	52.8	*		+		13	8 794	. 0.3	7 6	3%		-†-).4%
1	4 Vulpia octofiora	_	nļ	m	44.4	*		+-		++	274	0.3	<u>x </u>			+	0.79).4%
1	4 Ambrosia psilostachya	_	n	막		-+	16 70		8 20	∡ `	5.39	<u>i</u>		+		T).4%
	4 Chrysothamnus nauseosus	-	n	러		-+	10./	4	0.3		4.7%	it	0	3%	0.3	%	0.39	6 (0.4%
	4 Cirsium arvense	_	•	막		-+		+-	11.19	<u>s</u> t-	2.79	6 0.3	%				0.79	5	0.4%
	4 Guberrezia sarothrae		n	뭐	22.2	st		+	2.8	36 1	3.39	0.3	%				0.39	6	0.4%
Ē	4 Evolvulus nuttalianus	_		片	4.4			+-		-†-	4.09	6 0.6	%				0.79	6	0.4%
	4 Melilotus officinalis	_				-+	2.8	8	8.3	% 2	2.09	6						\downarrow	0.4%
Ľ	14 Erodium cicutarium		2			-+		Ť		-†-	2.79	6 1.3	96					+	0.3%
F		_	in i	r t		-+	5.6	% †			5.39	6			0.3	3%		+-	0.3%
H	14 ASTOF TAKALUS		in i	51	2.8	3%	13.9	%			0.79	6 0.3	9%		ļ	_			0.3%
H			1	in t	30.6	5%					22.79	6			L	\rightarrow		+	0.376
H	14 Opuntia fracilie		In	6	16.7	7%			16.7	%	4.79	*			—	_+		-	10.00
H	14 Hedeoma hispidum		În	in l	27.8	3%		Т	2.8	96	20.79	×			<u> </u>	_+		-	0.070
\vdash	14 Amemore polyathemos		In	m			2.8	%	2.8	1%		4	49	<u>).3%</u>	 	-+	0.3	2-	0.38
H	14 Veronica catenata		In	U).7%	 		<u> </u>	2-	
H	14 Finocharis elliptica		n	U				Т				_			 	-+	0.7	2-	승관
H	14 Artemisia ludoviciana		n	Р	2.	8%					4.0	<u>% 0.</u>	5%		┢		0.0		0.20
F	14 Carduus nuttans			m			5.6	5%		-+	4.0	<u></u>		0.20	<u>↓ </u>	370		+-	0.2%
t	14 Podospermum lacinatum		0	m				_			Z.0	2	_+-	0.070	`	+		+	0.2%
F	14 Lappula redowskii		In	m	19.	4%		_		-	18.7	2			+	30	01	8	0.2%
F	14 Symphonicamos occidentalis		In	D			1	- 1			2.7	70			<u> </u>	220	<u></u>	~	

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												Cov	er			1.00	1		
Annendix 3 (Cont.)		1	-		% 0	f Quad	irats Pr	esen		lup		une9	6 AUg	95 /	ug96	IIMI	1.2%		
Appanent			P	rt94	Jut	95	July96	-1~"	5 3%	0	3%		10	3%		+i	0.2%		
Plot Species	In	D	F		T			-+-	4.0%				+	-+			0.2%		
14 Tragia ramosa	n	m	E	19.49	64				7.3%				+	-+		T	0.2%		
14 Plantago patagonica	n	m	L	36.19	6-	139%							+			1	0.1%		
14 Androsace active	n	P	₽		+-	10.0 %		T		1-4	0.3%		+		0.3	×1_	<u>0.12</u>		
14 Hybaninus verdenisis	In	P	+		+	_			2.7%	_	0.6%		+			╧╋	0.17		
14 Carex neoracilis	1	12	+		+		1	-		┢	0.0 %				0.3	2	0.1%		
14 Cares programmerata	-4	1	+		+			-+	6.78	+			T			+	01%	1	
14 Pos pratensis	-	1	4		-		1	-+	0.77	-	_			0.3%	-	-+-	0.1%	1	
14 Setaria giauca	-		-+		T		1	-+	1 39	1				0.3%		-+	0.1%	1	
14 Stipe viridula	-{		1				1		1.07	+		0.	3%		1 0	396	0.1%		
14 Cirsium undulatum	-						+		2.7	*T		L	-+-	_	+	<u>~</u> †	0.19	5	
14 Na xanthifolia	-	n	D						2.7	×			-+		+	-	0.19	6	
14 Retibide columnifera	-	•	m		_	2.8	2		5.3	%		+	-+	_	+		0.19	5	
14 Camelina microcarpa		8	m	5	6%		-+		6.7	%		+-	-+	_	+		0.19	5	
14 Lepidium densmortun	_	n	m	8	3%						0.3	*-		_			0.1		
14 Euphorbia spatituate		n	P	<u> </u>	294	28	196		2.0	196		+			T		0.1	2	
14 Dalea purpurea	_	n	P	<u> </u>	.370	28	3%		2.7	7%		+			T		0.1	2	
14 Oxytropis lamber	_	n	1	4				8.39	6			+				_	1 0.1	굄	
14 Monaroa per	_	10	P	+	7%				7.	3%		+	0.3%		1		1-8	2	
14 Leucochinamania	_	10	P	<u>+</u>	5.7 10				1	704		+			_		1-0-		
14 Verbascum thapsus		뿌	#		2.8%	2	8%		1 %	794	+	-			+		1 6	5	
14 Viola nuttallii	_	-#	4		8.39	6			+	74	1-	-			_		10	0%	
1411 Jok Forb -816	_	-	+	1-		1		_	-+	109	1			1-	-+	<u> </u>	1 0	0%	
14 Oryzopsis hymenoides	_	ť	-			T			+-	39	it			4-	-+		10	0%	
14 Sporobolus asper		-	1	5	5.6	6				1 39	6			+	-+-		10	.0%	
14 Allium textile	_	-		5	2.8	*			-+-	2.79	8			+	-+-		10	.0%	
14 Lometum oriental		-	n	P	2.8	*			-+-	1.3	*	_		+-	-+			.0%	1
14 Musineon divancatum		_		P		+-			-	3.3	%	_	_	+	-+			0.0%	4
14 Cichorium intybus			n	m	2.8	<u>× </u>	2.8%		-	0.7	%	_		+				0.0%	4
14 Grindelia squarrosa	8		n	P		+	2.0 ~			0.7	%			+	-1		_	0.09	위
14 Machaeranulara pilifolius			n	P		-+-	+		T	0.7	<u>%</u>			+			_	0.07	
14 Hymenopapide lanceolata			n	121-		+				1.2	396		-	-				0.07	뮘
14 Menerisia Rempestre	_	_	10	m		+		2	.8%		Text-		+	T			+-	0.01	2
14 Echipocereus vindifiorus		_	-ľ	121					_			_	1					0.0	T
14 Chamaesyce fendlerii	_	_	-#	12-		-		-	+		27				_	┣		0.0	5
14 Vicia americana			-ť			Ē	2.8%	_	+		0%					┢		0.0	96
14 Marrubium vulgare	_		-†	101				+	+	_	-			_		+	+	0.0	196
14 Calochortus gunnisonii		_	-1	nlul			2.8%	4		- 2	7%		1	-+		+-		0.0	7%
14 Mentzelia nuda	-	-		np	8	.3%		+	28%				4	+		+		0.0	3%
14 Oxybaphus fineans		_	_	n p				+		0	.7%		-	+		+		0.	0%
14 Enogonum emusum		_		np		2.8%		+			2.0%		+-			+		0.	0%
14 Castilleja sessition	JS			np				+-			1.3%		+			T		0.	0%
14 Pensteriori soccitolia				IN P				+			1.3%		+			T		0	<u></u>
14 Verberia antibio	_		_	1010				T		1	2.0%	1 1	Rep	9.9%	3.8	%	8.3%	<u>لم</u>	10 K
14Unk. Forb-819	_	_	_	144	+			T		+	_	1 35	2961	52.6%	56.1	%	39.6%		6%
14 Unix. Forbund	_	_	_	++	+-					+	19 004	1 6	0%	5.7%	73	2%	9.0%	1#	7%
14 Daile Give	_		_	+++	+-	47.2%	16.7	1%	11.19	2	40.0%	14	4%	1.0%	5.	5%	2.1%	4-7	5.6%
15 Bouteloua gracilis	_	_	_	1:1:	+	52.8%	44.4	496	33.3	2+	54 0%	1 7	.4%	0.39	<u></u>	, a	2 24		4.1%
15 Agropyron smithi	_	_	_	-1-1	nt	33.3%	83.	3%	33.3	2 +	25.39	6 2	.0%	2.49	비가	읬	4.57	č1	3.9%
15 Bromus japonicus	_	_		- Inti	5	16.7%	5.	2	- 83	ŝt	50.79	6 2	.3%	1.09	러-	270		1	3.7%
15 Heterothece villose	_	_	_	1	5	16.79	<u> 25.</u>	0%	250	õ	16.0	6	2.3%	2.4	2	6%	1.7	x	3.1%
15 Artemisia frigida	-		-	le	m	22.29	6 47	쓻	27.8	s t	16.7	*		0.7	ᅍᅳᆣ	0%	<u> </u>	T	2.6%
15 Allysum minus			-	In	P.L	16.79	22	162	30.6	5%	24.7	%	1.3%			0%	0.7	%	2.5%
15 Guberrezia sarotriat	_		_	n	p	33.3		694	25.0	0%	10.0	%	1.3%	1.0	2		1.3	%	2.4%
15 Psoralea tenumora	ula	_		In	PL	72.2		1 494	25.	0%	10.7	%	2.3%	1-10	wit -	1.6%	1.3	1%	2.3%
15 Boutelous curopend			_	9	u	11.1	21-1	8.3%	2.	8%	11.3	1%	0.1%	1	1961	1.39	6 2.0)%	2.3%
15 Centaures Cillus		_		n	P	5.0	<u>~</u>	5.6%	2	8%	2.0	196	0.3%	1-6	396	1.09	6 1.	3%	222
15 Buchlos dacification	_	_	_	n	P	167	96 1	6.79	16	.7%	18.	7%	0.200	1 7	3%	_	0.	7%	22%
15 Rose erkernanke		_		n	P-1	10./	8 3	3.39	6 33	.3%	10.	140	0.5%	<u>.</u>		1.3	δ Ο.	3%	192
15 Ansoos purperson	ya		_	<u>_</u>	P		-1-1	6.79	6 22	29	6 <u>8</u>	12	0.77	4-7	4%	_	1	0%	1.070
15 Amprover Dos oc	cid	eni	ali.	<u> </u>	12	8	3%	8.39	6 19	.49	<u>누</u> - 같	201	1.09	6		_	10	3.0	1.77
15 Onzoosis hymeno	de	5	_			11	1%	30.6	6 2	2.29	\$−-	70				0.3	<u>%</u>]1	070	1.6%
15 Tracopogon dubiu	5		_			22	2%	25.0	% Z	11	라응	Fat			.3%			.170	
15 Chamaesyce fend	en		_		n lo	33	.3%	11.1	% 1	0./	×1 20								
the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is the sector is th	1113		_		_														

15 Evolvulus n

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Appendix 3 (Cont.)

		_			% of Qued	ats Pres	erit.	Lun COE I	To COVE			
Plot	Species		!	Part94	July95 J	uly96 /	11:34	JUNESO	Juneso	CEDIN	Aug96	IMP
15	Selvia aethiopis		m			8.3%	45.00	0.99	0.7%	1.3%	1.3%	1.6%
15	Opuntia polyacantha	n	P	19.4%	16.7%	11.1%	15.3%	0.370	0.7%	0.3%	<u> </u>	1.5%
15	Gaura coccinea	n	P	8.3%	25.0%	19.4%	14.0%			0.3%		1.4%
15	Ademisia lucioviciana	n	p	30.6%	11.1%	2.8%	16.0%	0.7%	0.3%	0.7%	0.3%	1.3%
42	Seliden nene	n	0	2.8%		8.3%	4.7%			1.0%	1.7%	1.3%
-131	Solida go naria		5	5.6%	11.1%	5.6%	14.0%	0.7%	0.3%	0.3%		1.1%
15		-	<u>*</u> †	16.7%	19.4%	8.3%	5.3%		0.3%	0.7%		1.1%
15	Enogonum emusum	-	<u>4</u>	25.0%	2.8%		13.3%	0.7%		1.0%	0.3%	1.0%
15	Stipa vindula	<u>n</u>	<u>P</u> +	25.0 %	10 4%		24 7%			1		0.8%
15	Musineon divaricatum	<u>n</u>	Р	19.4%	2.9%	0.28	2.0%	1 3%	0.39		t	0.8%
15	Hymenopappus filifolius	<u>n</u>	P	8.3%	2.070	-0.07	2.0 %	1.20			0.39	0.84
15	Unk. Forb -820	u	u	11.1%	8.37		0./70	1.07	0.79		1 0.20	0.0 %
15	Poa pratensis	•	P		2.8%	8.3%			0.77		0.37	+ 0.72
15	Aster faicatus	n	P	8.3%			<u>7.3%</u>		0.37	1.07	4	0.75
42	Nothocelis cuspidata	n	p						1.49		<u></u>	0.7%
- 13	Retibide columnian	n	D		5.6%		2.0%	0.7%		0.3%	0.79	0.7%
13		n	5	22.2%	5.6%	5.6%	20.7%			0.3%	<u></u>	0.7%
15	Spnaeraicea coccinia	5		8 3%	8.3%		8.0%		0.31	0.39		0.6%
15	Yucca glauca		<u>Ľ</u>			11 1%	16.0%				T	0.6%
15	Erodium cicutanum	-	<u> </u>	E CN	11 14	8 394	4.0%	1		0.39	<u>الم</u>	0.6%
15	Comandra umbellata	n	IP	3.0%		0.5%	4.0 A	1	t	+	1.3	6 0.5%
15	Eleocharis macrostachya	n	P					+	 	0.74	d	0.5%
15	Aster porteri	n	P		11.1%				1 0.24	d 0.77	1 0.91	K OSK
15	Chrysothamnus nauseosus	n	P		2.8%	2.8%	2.0%	1	0.3	익	+ 0.3	
15	Lactuca serriola	•	m	8.3%	8.3%		11.3%	0.3%			+	0.5%
10	l esquerella montana	n	u		8.3%		6.7%		0.3	b		0.5%
	A strangeline triclactulicus	n		11.1%	8.3%	5.6%	2.79	51	1	0.39	<u>• </u>	0.5%
13		F	뚢	5.6%	5.6%		23.39	5				0.5%
15		12	뿥	8 34		2.8%	14.79		0.3	6		0.5%
15	Linum usitetssimum	₽	m	44.4%	5.6%	8 3%	3.39				1	0.4%
15	Liatris punctata	n	IP.	11.17	0.070	2.2 %	3.3	0.39				0.4%
15	Thelesperma megapotamicum	n	P_	8.3%	6.070	2.070	3.37		<u>'</u>		-	04%
15	Descurainia sophia	•	m	8.3%			22.77	4	+	0.7	1 03	× 0.4%
15	Tragia ramose	n	P							0.7	<u></u>	- 0.4 M
15	Astragalus flexuosus	In	P	13.9%	11.1%		4.09	6		0.3	획	0.4%
15	Astragalus drummondii	In	D	8.3%	5.6%	2.8%	6.79	6 0.39			4	0.47
13	Compium viecosissimum	ū	LU I						0.7	×		0.4%
	Gerarbun viscossonnen	ħ	10		8.3%	5.6%				0.3	<u>× </u>	0.4%
15	Hybenbus verucinaus	t:	1 m	2.84	2.8%		12.09	6				0.3%
15	Bromus tectorum	t.	1	2.0 4	1-2.07		0.79	6 1.09	5			0.3%
15	Carduus nuttans	₽	m	 	2.94	8 36	2 79				+	0.3%
15	Sysimbrium affissimum	10	1		2.070	0.37	40.70					0.3%
15	Euphorbia spathulata	n	m	5.6%	<u> </u>		10./7	٩			1 07	× 0.3%
15	Geranium caespitosum	n	P								-+- <u>•··</u>	
15	Plantago patagonica	In	m	2.89		5.6%	6.7	6			┿	0.37
15	Pensiemon secundifiorus	In	P	2.89	2.8%	2.8%	1.3	%			0.3	76 0.37
1 15	Boutelous birsute	Īn	D	8.39			2.0	6 0.79	6			0.27
13	Boulesous Inform				1				0.3	%		0.29
Lis	Proe compresse	t		2.89			6.0	S 0.39	6			0.29
15	Sitanion mysuix	벁	12-	2.07	2 84	<u>├──</u>	73	8	1			0.29
15	Supe comete	#	12	2.07	2.07	+	1 67		03	96		0.29
15	Helianthus annuus	ļ r	1m	¥	-	+		21	- -~~			0.29
15	Machaeranthera pinnatifida	1ª	<u>IP</u>	<u> </u>	5.0%		+	~	+	194	-+	1 0 24
15	Mertensia lanceolata	ſ	۱p	5.69	6	<u> </u>	1 1.3	<u></u>	<u> </u>		-+	
15	o Opuntia fragilis	I	P			8.39	0.7	<u>> </u>	- 		-+	
1	Convolvulus ervensis	1	P		8.3%		3.3	<u>%</u>	<u> </u>	_		
H	Solenum physelitolium	1	l u			8.39	6 2.0	%				0.2
		t	10	1		8.39	6					0.2
L ^E		+	;	+	+	1					0.	3% 0.1
L ¹		+		1 20	<u>k</u>	2.8	6 07	%				0.14
11	UNK. Grass - 160	4	14	4.0	[+	7 87	<u>.</u>			-1	0.1
1	5 Allium textile	4	ΠİΡ	5.6	<u>~</u>	+	x	<u>a</u>				0.1
1	5 Cirsium undulatum	1	n In	1 2.8	70	2.89	<u> 2.0</u>	70				
1	5 Lappula redowskii		n m	<u>1 2.8</u>	»	<u></u>	6.0	70	<u> </u>			
1	5 Camelina microcarpa	T	• n	n		<u> </u>	6.7	%				
1	5 Drebe reptans	T	n In	n 2.8	%		7.3	1%				0.1
H	5 Lenidum cemnestre	Ť				T	3.3	1%				0.1
H ^u		Ŧ	ۃ ا	<u>.</u>	- 	2.8	8 40	3%				0.1
L ¹		+	-#2	·	2.00	1		1				0.1
1	5 Oxytropis lambertii	4	<u>n 10</u>	<u>'</u>	2.07				-+		-+	- 1 01
1	5 Leucocrinum montanum	1	nip	8.3	~		-+	770			-+	
T	5 Oxybephus lineeris	1	n (p		2.89	6	0.7	*				
T	5 Oenothera brachycarpa	T	n p				4.0	7%			<u></u>	
H	5 Amemore polyathemos	1	nin	n	2.89	6	2.3	7%				0.1
H	El lak Each 920	-	u li	, †				0.1	3%			0.1
μ	SIUNK. FORD -020	+		·		+	1 1	396				0.0
		- 1	n 10			1	1 14			1		

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App	andix 3 (Cont.)		г			~	uadra	ts Pres	ent	T	•	6 Cov	м			-		
		_	-	Dort		ulv95	Ju	N96 1/	1194	Ju	ne95 .	une96	Au	95 /	wg96		0%	
Plot	Species		<u>_</u> †	and	2.8%	aryee	-		0.7	%			_			+	0.0%	
15	Schedonnardus paniculaius		<u>s</u> t						0.7	<u>× </u>			╂				0.0%	
15	Arnica fuigens	n	<u>m</u>		2.8%				0.7	%	+		+	+			0.0%	
15	Grindelia squarrosa		m						1.3	%	+		╋	+		+-	0.0%	
15	Podospermum lacination	n	m						2.7	<u>»</u>			+	+		+	0.0%	
15	Cryptanna minina	n	D		2.8%				0.7	%			╉╾			+	0.0%	
15	Onosmoaium mole	e	m						2.0	7%			+-			+	0.0%	
15		n	Ð						0.7	26			+-			+	0.0%	
15	Euphorbia robusia	ln.	m						0.7	196			+-			-	0.0%	
15	Hedeoma mspidum	ln.	m						1.	3%			+-			+	0.0%	
15	Monarda pecunata	10	0	_	1				0.	7%			-+-			+	0.0%	1
15	Scutellana britoma	tñ	10	-					2.	7%		04.8		23.1%	27.7	8	0.0%	
15	Orobanche fasciculata	T	1-	<u> </u>							23.4%	31.8	3 -	2.1 %	36.0	-	0.0%	
15	Bare Ground	┿	+								25.1%	40.9	<u></u>	12.0 10	15.3	96	24.6%	l
15	Litter	15	10	t –	75.0%	100.	0%	100.0%	86.	0%	12.4%	22.0	2	12.4 %	63	396	17.1%	
16	Agropyron smith		In		80.6%	86.	1%	86.1%	86.	0%	15.6%	0.3		4 2%	90	196	9.9%	i i
16	Convolvulus arvensis	15	10	┢─	52.8%	47.	2%	47.2%	55.	3%	5.1%	4.3	2	234		75	7.7%	
16	Buchice dactyloides	+		+-	69.4%	61	1%	83.3%	43	.3%	3.2%	<u></u>	~	2.5 10	<u>+</u>	<u> </u>	4.7%	1
16	Aristida purpurea	ť			94.4%	100	.0%		52	.0%	8.9%		+	2.0%	2	796	4.3%	1
16	Linum usitetssimum	÷	1	+-	13.9%	13	.9%	5.6%	32	.7%	3.2%	1 23	27	2.37 A 04	<u>+</u>	+	3.9%	1
16	Bouteloua gracitis	+	Ť	+-	5.6%	58	.3%	5.6%	40	.0%	2.2%	4	_	4.57	1 1	os t	3.6%	1
16	Gutierrezia sarothrae	-#	÷Ľ	+	22.2%	25	.0%	44.49	6 16	.7%	3.5%	4 1.	ᇑ	1.07	4	+	2.1%	1
16	Psoralea tenuiflora	-ť		+		30	.6%	41.79	5 5	.3%	1.09	1.	770	4.20			19%	1
10	Bromus japonicus	-ť	<u> </u>	+-	11.1%	27	.8%	11.19	6 18	.0%	1.99	<u>-</u>	-+	1.37	4	-+	1.7%	1
10	6 Centaurea diffusa	-ť		+-	72.29	27	.8%	25.09	6 28	.0%	0.39	<u> </u>	_		╧╋╼╼╼╼		1 69	ដ
1	Bromus tectorum	-ť		4-	44.4	1		47.29	6 0).7%	1.69	<u>(0.</u>	7%		╉╼╍		1.24	đ
1	6 Erodium cicutarium	-+		-	16.79	4	.7%		112	2.7%	1.09	6	-+		+		1.24	H
1	6 Allysum minus	-+			13.99		3.9%	25.0%	6 14	1.0%	0.69	6			+ -	294	1.09	3
1	6 Sphaeralcea coccinia	_	<u>n (p</u>		10.07	1-7	3.3%	27.89	6 (5.0%					୷୰	28	0.09	3
11	6 Evolvulus nuttalianus	-+	<u>n E</u>		13.47	+	8.3%	8.3	6		1.9	6 0	3%	0.34		294	0.01	3
1	6 Helianthus annuus		<u>n r</u>	4	10.49		8.3%	13.9	*	5.7%	0.3	<u>6</u>		0.3	비생	28	0.81	3
	6 Liatris punctata	_		2	16.79	2	0.0 .0	16.7	*	5.3%	1.0	<u>× </u>		L	+-2	1.370	0.07	읡
	6 Penstemon secundifiorus	_	ny	4	9.29		5.6%	5.6	*	6.7%		0	.3%		44	1.170	0.0	믥
Fi	6 Comendra umbellata	_	n	2+	5.0	2	0.0 2	2.8	%	4.0%	1.3	<u>× 0</u>	.3%	0.3	*		0.01	믥
H	6 Yucca glauca	_	n	2+	12.05	2 1	3 9%		-	6.7%	1.0	%				70/	0.0	즭
	6 Musineon divaricatum		n	막	13.5	<u></u>	0.0 ~	1		4.7%				1.0	<u>× · · · · · · · · · · · · · · · · · · ·</u>	J./70	0.0	즭
	6 Chrysothamnus nauseosus	_	In I	<u>P</u> +-	6.0		8 3%	5.6	%	4.0%	0.3	%		0.3	<u>×1</u>	0.37		괽
	6 Machaeranthera pinnetifida			막	11.1	~	0.0 2	5.6	96	1.3%	0.6	%	_	0.7	<u>~</u>	0.3%		괽
	16 Argemone polyathemos				46.7					0.0%	,							긢
	16 Plantago patagonica		n	<u>m</u>	10.7	~	7 89	.t		2.7%	5				_+-		+ %	2
	16 Descurainia pinnata		In I	ᅖ			8 39			10.0%	6 0.6	5%						2
	16 Sysimbrium altissimum		P	<u>_</u>	5.0		19 49	6 2.8	3%	2.79	6 0.3	3%			_	_	1 0.5	쯹
	16 Gaura coccinea	_		<u>P</u>			72 29	6		2.09	6			1	_		1-00	
-	16 Camelina microcarpa		e	m		-+	2 39	21	-+-	13.39	6						1 0.4	
- H	16 Lepidium densifiorum	_	0	m		-+-	0.07	°+	-+-	3.39	6			0.	7%		103	ᇑ
F	16 Artemisia frigida	_	n	Р		-+-	44 40	x 2	896	0.79	6							쯾
- F	16 Lepidium campestre	<u>.</u>	0	m			5.60	<u>x</u>	<u> </u>	0.79	x 0 .	6%			$ \rightarrow $			쯹
F	16 Stipe viridule		n	P	- 4.0	270	5.6	<u> </u>	-+	2.7	*							쯹
ŀ	16 Artemisia dranunculus	_	In	1P	5.0	270	3.0	~	-+	2.0	% 0.	3%		0.	3%		나야	쐶
ŀ	16 Heterotheca villosa		n	IP.		_+-			-+	10.0	*							씕
ł	16 Lappula redowskii		<u> n</u>	m	<u> </u>			~1	+	87	%						<u>0</u>	29
ŀ	16 Chenopodium dessicatum		n	m	8.	370	2.0	2 	+	53	8	-1-			I	_		<u>7%</u>
ŀ	16 Salsola iberica		e	m	<u>2</u> .	5%	2.0	20 04			7 0	.3%		0	.3%			2%
	16 Dalea candida	_	n	P			2.0	2	+	20	<u>st</u>						0	.1%
	16 Boutejoua curtipendula		F	P	<u>↓ 8.</u>	3%	2.8	20				-+	0.3	%			0	.1%
	16 Poe pretensis		e	P						27	196						0	1.1%
	16 Schedonnardus peniculatus	;		ı p	_					2.1							0).1%
	16 Siterion longifolium			าม					.070		-+	+).1%
	tel Spombolus cryptandrus		T	p		$ \rightarrow $!	0.070		-+-	+).1%
	16 Vulcia octofora			n In					0.070	Ļ	-+-	+		-1-).1%
	10 VUING CLIGHT	_		np	I		8.:	3%				+		-1-				0.1%
				n p						<u> </u>	702	+						0.1%
	16 Lygoodsmia junce		-1	n p						4.	/70-	+				_		0.1%
	10 PC/2001 PC/2010		-1	0 0					2.8%	<u> </u>	 +-			-+-				0.1%
	10 Jaraxacum onicianare	un	, 1	nic		2.8%	2.	8%		1 <u>0</u> .	174-		_					0.1%
	16 Thelesperma megapotanik	_	-		n		8.	3%					_	-+-	0.34	t	-+-	0.19
	16 Tragopogon dubius	_		n li	.t					1				-+-	10 20	 		0.19
	16 Agaioma marginata	_		n	n					12	.7%					1		0.19
	16 Monarda pecunata	-		n li	51-	5.6%				4	.7%			<u> </u>		+		0 19
	16 Oxybaphus tineans			H	5	5.6%				4	.0%		L					V.17
									the second second second second second second second second second second second second second second second se									

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Ар	endix 3 (Coll.)		1		% of Qua	drats Pres	sent		% Cover			
Diat	Species			Part94	July95	July96	A1194	June95	June96	Aug95	Aug96	MP
16	Polyaonum sawatchense	n	m	8.3%			6.0%					0.1%
16	Phyla cupaifolia	n	p							0.3%		0.1%
16	Verbens ambmsifolia	n	P	5.6%		2.8%	1.3%					0.1%
16	Link Forth 967	u	U			2.8%						0.1%
	Bouteloue birsute	n	D				2.0%					0.0%
10	Alicum	n	D				1.3%					0.0%
10	Ademisia krioviciana	n	D				1.3%					0.0%
10	Arter fair atus	n	D				1.3%					0.0%
10	Circium undulatum	n	m				0.7%					0.0%
110		e	m				1.3%					0.0%
16	Ambis glabra	e	m				0.7%					0.0%
10	Overtia polyacantha	In	P				1.3%					0.0%
16	Mentzelia speciosa	n	u		2.8%							0.0%
16	Oecothera nuttallii?	n	D	2.8%			0.7%					0.0%
	Upk Forb -819	u	u				0.7%					0.0%
16	Link Forb-924	U	u		2.8%							0.0%
16	Bare Ground							10.8%	17.3%	13.7%	14.7%	0.0%
16	Litter	1		1				20.1%	39.0%	40.1%	43.3%	0.0%
17	Aamovroa smithii	n	p	100.0%	97.2%	100.0%	100.0%	24.7%	25.7%	7.3%	17.7%	30.1%
+++	Convolvulus arvensis	e	Þ	94.4%	100.0%	77.8%	96.0%	16.6%	2.6%	8.9%	5.7%	17.9%
ابنا	Buchloe dectyloides	In	Þ	38.9%	33.3%	44.4%	48.7%	3.3%	2.3%	7.9%	5.3%	11.2%
+++	Enclum cicutarium		m	22.2%	77.8%	77.8%	33.3%	26.2%	6.2%			10.6%
H	Bromus tectorum		m	33.3%	55.6%	97.2%	14.0%	5.1%	6.5%			6.8%
H	Bromus isoopicus	Ā	m	8.3%	33.3%	80.6%	2.7%	1.5%	13.0%			6.5%
F#	Asetida Aurouroa	Īn	P	30.6%	5.6%	8.3%	29.3%		0.3%	0.7%	1.0%	2.1%
F#		i.	m	16.7%	33.3%	1	4.7%	3.3%				1.5%
11/	1 niaspi arvense		5	2.8%	2.8%		32.7%	1.5%		0.3%		1.4%
14		l.	IP m	25.0%	8.3%		34.7%					1.2%
11/2	Lepidium densinorum	le le	1	20.0 %	8.3%		8.7%	2.1%		0.3%		1.0%
17	Centaurea cinuse		Ľ	8 794	8 3%		18.0%	1.8%				1.0%
17	Sysimbrium arossimum		10	0.3 %	27.8%		1.0.0 ~	1.2%				0.9%
17	Camelina microcarpa		m	10.4%	27 2%	5.6%	7.3%	0.3%			1	0.9%
17	Lepidium campestre	1	1	22.394	11 196	0.0 %	10.7%	1.2%				0.8%
17	Descurainia soprila	1	m	27 2%	13 9%		16.0%					0.8%
17		10	14	28%	13.3 %	<u> </u>	4 7%	0.3%	1.0%	1	0.7%	0.7%
17	Bouteloua gracilis	10	뽄	2.07	<u> </u>	19.4%	<u> </u>			<u> </u>	1	0.5%
17	Vulpia octoriora	11	Im	┼───		8 396					0.3%	0.4%
17	Juncus arcicus	l.	<u>1P</u>	16 7%		8 396	53%					0.4%
17	Asciepias pumila	쁜	<u>μ</u> .	10.7 %		0.0 %	2.7%	0.3%	1.0%			0.4%
17	Artemisia ludoviciana	In	멷	2.9%	44 494		5 39			<u> </u>		0.4%
17	Chenopodium album	10	E	2.07	9 394		- 0.0 ^	0.3%		<u> </u>	1	0.3%
17	Lactuca semola		Im	·	0.37	·	╂	0.0 2			0.3%	0.2%
17	Carex sp.	14	IP.			<u> </u>	0.79		 	0.39	1	0.2%
17	Heterotheca villosa	In	₽.		2.00	+	4.09	<u></u>		1	1	0.2%
17	Allysum minus	le	Im	5.6%	2.0%	<u>'</u>	+ 4.07	4		0.39		0.2%
17	Melilotus sp.	10	Im	·	2.8%	'	1 1 20	0.20		1	1	1 0 2 4
17	Polygonum sawatchense	In	1	4	2.8%	<u>'</u>	1.39	<u> مردر ا</u>	 	1	1	1 012
1	Poa pratensis	e	₽₽.	1	2.8%	<u>'</u>	4.00	. 	<u> </u>		1	1010
1	Schedonnardus paniculatus	In	P	5.6%	·		4.0%	?	<u> </u>		+	1 0.10
1	7 Yucca glauca	In	P	5.6%	4	. <u> </u>	3.39	<u>۹</u>	┨────		+	1 0.17
1	7 Ambrosia psilostachya	n	Þ	_	5.6%	<u> </u>	+	, 	↓	+		0.170
1	7 Aster falcatus	n	P	11.19			3.39	<u> </u>	 	+	_	1 0.170
1	7 Dyssodia papposa	n	m		1	2.89	4	+		<u> </u>		1 0.170
1	7 Grindelia squarrosa	n	IT	1	1	1	0.79	<u>6 0.3%</u>	· 		- 	
1	7 Helianthus annuus	In	π		2.89	61	_	4		+		0.1%
T	7 Tragopogon dubius	le	n		2.89	6	1	1	_		+	0.1%
1	7 Lappula redowskii	In	n	1		1	3.39	6		4	 	0.1%
1	7 Linum usitatissimum		17	i			2.79	6	ļ		_	0.1%
1	7 Spheeralcea coccinia	In	p		2.89	6		1	1	_		0.1%
1	7 Oxybaphus linearis	Īn	p	8.39	6		5.39	6				0.1%
Ti	7 Gaura coccinea	Ī	P	5.69	6		4.79	6	1			0.1%
h	7 Plantago patagonica	Īn	П	n	T		2.79	%				0.1%
H	7 Androsece occidentalis	In	л	n 5.69	6		3.3	%				0.1%
H	7 Bromus inermis				T			0.3%	6			0.0%
H	7 Artemisia fricida	1	t lo		1		0.79	*				0.0%
H	7 Lietris punctate	1,	T.	1			1.39	*				0.0%
H	7 Sonchus asper	Ť	T.	<u></u>	1	1	0.7	*				0.0%
H	7 Salsola ibarca	t		2.89	<u>دا</u>	1	1.3	×	1			0.0%
+	7 Permise tenuiffore	╬	ŧ۳.	<u></u>	+	+	1.3	*	1	1		0.0%
H	7 Bara Ground	ť	ť		1		1	0.99	6 8.5	6 4.0	% 7.39	6 0.0%

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19 Bromus Brommer n p n 16.7% 5.6% 2.8% 32.0% 0.3% 1.1	19 Bromus Perometer 1 0.3% 1 1 19 Carex stipate e m 16.7% 5.6% 2.8% 32.0% 1 0.3% 1 1 19 Carex stipate e m 16.7% 5.6% 2.8% 32.0% 1 0.3% 1 1 1		19 Bromus recordin			•	E		8		2	2	10	1	Ś	8	ē	t	타
19 Carbox superior [19 [Carbox 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19 Carex superior 4 alt actives seriole [e] [m] 16.7% [5.0%] 2.0% [2.0%]		19 Bromus Japan			C	9		- -		3 8 4	30				100		4	-
	T 4011 Actice Seriore		19 Carex supaua			•	E	16.79		R									

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Арр	endix 3 (Cont.)		1		S of Ours	drats Pre	sent		% Cover	r		_
			-	Part94	July 95	Julv96	All94	June95	June96	Aug95	Aug96	IMP
Plot	Species		m	27.8%	8.3%		34.0%					1.1%
19	Chenopodium dessicatum	n l		41.7%			15.3%		2.3%			0.9%
19	Circlum and 3		5	_			10.7%	1.0%	1.0%		1.3%	0.9%
10			m				30.7%	_0.3%				0.8%
19	Podospermum lecinatum	e	m	47.2%			34.0%	0.3%				0.8%
19	Cancella burse-pastoris		m	33.3%		2.8%	14.0%	0.3%				0.5%
10	Descurainia sophia	e	ш	5.6%			18.7%	0.3%				0.5%
10	Trifolium praterise		P	25.0%	5.6%		10.7%					0.5%
10	Thistoi energe	e	m	11.1%			15.3%		0.3%		L	0.4%
19	Emdum cicutatium		m	16.7%			11.3%		0.6%		L	0.4%
19	Pobrogum avicular		m			11.1%						0.4%
10	A sciences speciose	n	D			T	1.3%			0.6%	0.3%	0.3%
19	Taxopagon dubius	e	m			5.6%	4.0%					0.3%
10			'n				10.0%				L	0.2%
19	Camelina microcarpa	le	Ē	5.6%			6.7%			<u> </u>	l	0.2%
10	Ghreeia grandis	in	P						1	0.3%		0.1%
10	Homeum jubstum	In	u	2.8%			1.3%	,			0.3%	0.1%
140	Penicum vimetum	In	D							L	0.3%	0.1%
13	Dhieum nratense		p			T			0.3%	1	Ļ	0.1%
1-13	Sinenit enensis	é	m	1		1	3.3%		I			0.1%
13	Thelicinim desucarpuim	'n	P	t	T		2.0%	0.3%		ļ	L	0.1%
Fia		1n	6	t	1		0.7%	5				0.0%
냺	Carda procyrouno	În	m	t	1	Ι.	2.0%			· ·	L	0.0%
19	Consecurit erverise	튭	le.	1	1	1	0.79	5		1		0.0%
119	Ittak Earb 826	ti,	۳,	t	1	1	0.7%	5				0.0%
Fia	Para Ground	ᠮ	f	t	1	1		0.7%	1.6%	4.5%	1.39	0.0%
Hiā	Date Ground	╈	⊢	t	1	1		2.6%	34.6%	45.0%	23.29	0.0%
119		1	늡	75.0%	75.0%	30.6%	30.09	6 16.79	12.2%	6 4.9%	24.19	19.0%
20	Dectylis glomerata	10	15	88.99	69.49	38.99	55.39	6 8.09	3.99	13.0%	7.59	16.2%
20	Medicago salva	E	15	77.8%	50.09	33,39	78.79	22.19	4.3%	2.9%	5.99	13.5%
20	Taraxacum omcianare		15	1	8.39	5	34.09	9.0%	10.99	2.9%	20.99	5 11.5%
20	Bromus inermis	1	12	22.39	38.99	36.19	25.39	6 3.79	6.39	2.9%	5.39	9.0%
20	Convolvulus arvensis	te	ال	61 19	16.79	5.69	46.79	6 5.09	5	1.9%	6	4.0%
20	Lactuca semola	1ª	1	12.09	11 19		24.09	6 9.09	3.09	6		3.6%
20	Bromus tectorum	╞	100	8 39	30.69	8.39	2.09	6 1.39	0.39	5	7.59	6 3.5%
20	Agropyton repens	ا	뿥			22.29	6	0.79	1.09	6 2.99	6	2.8%
20	Festuca praterisis	÷	뽄	2.89	8.39	5 69	6 14.79	6 1.79	1.69	6	2.19	6 2.2%
20	Cirsium arvense		HE.	25.09	11 19	6 19.49	6 6.09	6 0.39	6 1.09	6		2.0%
20	Poa pratensis		뿥	1 10.0	1	27.89	6	1	0.79	6		1.6%
20		╞	10	8.39	5.69	6 11.19	6 2.09	%	1.09	6 0.39	6 1.69	6 1.6%
	Rosa arkansana	-		25.09		2.89	6 46.7	6	1			1.4%
	Descurainia sopria	╞		38.99	<u></u>		50.04	*				1.3%
	Chaspi arvense			16.79	6 2.89	5.69	6 16.7	*		0.39	6	1.0%
	Chenopodidini dessicatum	-				8.39	6 16.0	*				0.8%
	1 Inocum aesuvum	+		<u>.</u>	+	8.39	6	0.79	6			0.5%
		ا		;	1		18.0	%	1			0.5%
12		+	1-	; 	+	11.19	6					0.5%
2		-1-	╢╴		+	83	8		1			0.4%
		÷ť	Ŧ	8.39	6	2.8	\$ 10.7	%		-1		0.4%
12	Openant and a second technology	+	1	0.57	56	8		0.3	*	1		0.3%
12		-#	÷†Ľ	2.80	<u>kl 0.0</u>	2.8	6 0.7	% 1.0	*	1		0.3%
2		-ť	; 	2.07	~ 		107	% 03	%		1	0.3%
12			<u>+</u>	<u></u>			10.0	8				0.3%
2	0 Moldavica parvitiora	-	1	<u>"</u>			- 73	96	+		1-	0.29
	U Lokum perenne	-1	1	<u>"</u>	+	-+	- '"	1 03	6 03	%		0.29
12	0 Phieum pratense		۲Ľ	2	×		1-0		<u>~</u>			0.29
12	0 Helianthus annuus	-#	The second second second second second second second second second second second second second second second se	<u>n 2.8</u>		-+		al				0.29
12	0 Capsella bursa-pastoris	-4	4	n <u>0.3</u>	~		<u>«</u>		+			0.19
2	0 Alopecurus aequalis		<u>n F</u>	2	. 		~ ~	with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second				0.19
2	0 Calamovilfa longifolia		n ļr	2 8.3	~		- <u> « (</u>	1 A -	×			019
2	0 Cichorium intybus	1	<u>e 1</u>	24			+	w 0 ~	~			0.14
2	0 Medicago lupulina	_	e 1	m		_{	1 21	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				5% 0.14
2	0 Trifolium pratense	_	еļ	2	. 		- 					
2	0 Cerduus nuttens	_	e li	m 2.8	<u>» </u>	_	- 0.7	2				0.0
	0 Tragopogon dubius		<u> </u>	m		_						- 0.0
	0 Melilotus officinalis		• 1	m				- 14				
	20 Trifolium hybribum		e	<u> </u>			1	270				
	20 Trifolium repens		٥j	p 2.8	%		- 1-	5%	-+	_		
	20 Malva neglecta		e	m			1	3%		_		
	D Pumer crispus		e	D 2.8	96		0.1	7%	1			1 0.0

App	endix 3 (Cont.)		7		<u>a</u>	of Ourse	rats Pres	-ont	T		6 Cover				
	Consistent I	-1	+	Part94		M95 .	July96	Ali94	Jun	e95 J	une96	Aug95	Aug96	IMP	
2014	Barn Ground	+	-†	0.004	1				1	.7%	34.9%	6.8%	0.5%	L o	0%
- 201	Litter	1							17	.7%	18.8%	61.0%	24.1%	1-26	294
21	Agropyton repens	e	P	61.19	6	50.0%	66.7%	35.39	6 2 0	0.8%	60.1%	23.6%		16	7
21	Bromus inermis	0	Ρ	44.49	6	30.6%	17 00	69.47	24	0.0.0	2 3 96	5.5%		i i	4%
21	Convolvulus arvensis	e	P	33.39	6	38.9%	47.2%	24./7		1.070	2.5 %	6.0%		1 7	.6%
21	Medicago sativa	•	P	80.69	6	63.9%		40.17		2 1 9	0.3%	0.3%		6	.4%
21	Taraxacum officianale	e	Ρ.	50.09	61-	58.370	69 34	444.07			0.7%			1	.3%
21	Zee mais	•	m	16.70	<u>_</u>	36 194	30.3%	22 79	1 1	5.0%	2.3%	0.7%		3	.9%
21	Dactylis glomerata	9	<u>P</u>	10.77	┺	22 2%			+-	1.6%	2.3%	3.3%		2	2.7%
21	Poa pratensis		<u>P</u>		+	8.3%	5.6%	39.3	6	2.8%		0.3%		1	2.7%
21	Cirsium arvense		5		╈		22.2%								.6%
21	Alopecurus aequans		D	2.8	<u>s</u> †			38.0	*			0.7%			.6%
21	Festuca praterisis	n	u		-			7.3	¥			0.7%	<u> </u>	+ 9	0.5%
21	Eleocharis emploa	e	u		-			12.7	<u>×</u>					+	1.57
21	Tritolium prate0.58	e	D		1			8.7	*	0.3%		<u> </u>		+	1.470
21	Polyponum sawatchense	n	m			8.3%			┶				╂────	+	0.98
21	Cerex lanuginosa	n	P		Τ			6.0	<u>*</u>				+	+	0.2%
1 21	Cerex stipeta	n	P		Τ			0.7	<u>*</u>	0.000	1.0%	4	+	+	0.29
21	Bromus tectorum		m	5.6	*			3.3	*	0.3%		╂	+	+	0.2%
21	Lectuce serriole	•	m	27.8	%			6.7	<u>*</u> -	0.00		+	+	+	0.2%
21	Capsella bursa-pastoris	e	m	8.3	*			1 2.0	<u> -</u>	0.5%		+	+	+	0.2%
21	Chenopodium album	0	m	11.1	*		ļ		<u>-</u> -			+	+	+-	0.1%
21	Ambrosia psilostachya	n	P		+			1-20	21-			+	1	1-	0.1%
21	Aster falcatus	P	P					20	a l-			1		T	0.1%
21	Carduus nuttans	0	Im	8.3	2			27	s t-						0.1%
21	Podospermum lacinatum	e	1m	<u>n.</u> 1	~			27	s I-					T	0.1%
21	Allysum minus	10	Ē		+			2.0	<u>-</u>			1			0.1%
21	Lepidium campestre		1m	28	a l	2.8%		0.7	%						0.1%
21	Plantago lanceolata	÷	P		~			0.7	%						0.0%
21	Carex nebrascensis	1	The second	<u>+</u>	-†		1	1.3	196						0.0%
21		ť		5.6	%			1.	%				_	┶	0.0%
21	Complete microcarba	te	m	1	1			113	1%					+-	0.0%
12	Cameina mciocaipa	10	m	2.8	%			0.7	1%			+	+	+	0.0%
1	Sysimbrium altissimum	1.	π	5.6	%			1.	3%					+	0.0%
1 2	Thiaspi arvense		n n	5.6	%			1.	3%			-		-	0.0%
1 3	Bare Ground	Τ							-+-	1.9%	14.4			-+-	0.0%
2	Litter	Ι			_		1		_	11.5%	8.1	X 19 A			20.3%
2	2 Medicago sativa	e	P	88.9	3%	86.19	44.4	» //.	570	21.0%		× 92	\$ 5.6	si l	13.2%
2	2 Dectylis glomerata	4	ĮΡ	19.4	1%	11.19	0.00	× 21	200	14 79	1 43	× 43	% 4.3	%	11.5%
2	2 Bromus inermis	4	P	61.	20	46.79	0.3	20 JI.	794	5 39	80	% 4.3	% 10.3	196	10.8%
2	2 Agropyron repens	4	P	$\frac{13}{46}$	52	10.77	16.7	x 20.	in the second	1 69	8.3	% 6.3	% 7.6	3%	10.2%
2	2 Convolvulus ervensis	-	1	16.	2	10.79	10.7		39		34.2	%			7.3%
2	2 Triticum eestivum	-	4		002	77 79	1 11 1	st 50	79	11.99	6 0.3	% 5.3	%		7.1%
2	2 Taraxacum officianale	-	+	<u>,</u>			91 7	\$			1		1.0)%[5.6%
2	2 Hordeum vulgare	-ť	#	11	1%	2.89	6	20	0%	2.59	6 2.0	% 1.0	96 2.0	2%	2.8%
2	2 Poa pratensis	-ť		n 61	1%	2.89	6	24	7%	5.09	6			Τ	1.8%
2		ť	j,	n			27.8	%					0.	3%	1.7%
12	2 Chappedium allum	-ť	ō	π 2.	8%		22.2	% 1	.3%			_	_	_	1.3%
14	2 Circium anansa	+	eli				8.3	% 6	.0%	0.99	\$ 0.3	96	0.	/%	1.2%
H	2 Kochia imnice	-	eli	m		16.7	6					0.	5%	-	1.1%
H	2 Alopecurus aegualis		n				2.8	3%			-		- 1.	3%	0.7%
H	22 Centaurea diffusa		8	u 2	8%			0	.7%		11	5% 0.	<u>576 0.</u>	12	0.770
H	22 Bromus inermis		e	p 5	6%			3	.3%	_		+12	- 14		0.3%
H	22 Agropyron smithii		n	2		2.8	%	3	.3%	0.3	2	-+			0.3%
H	22 Lactuca serriola			m 13	.9%			4	0%		+	<u> </u>	-+		0.3%
H	22 Podospermum lacinatum		0	m 5	.6%				.3%						0.3%
	22 Polygonum sawatchense		n	m		2.8	×	<u> </u>	74						0.2%
	22 Bromus tectorum		0	<u>m 5</u>	.6%		_		1.170		-+	-+			0.2%
	22 Tragopogon dubius		•	<u>m 2</u>	.8%								_		0.2%
	22 Solanum rostratum	_	•	<u>m</u>	4.00		- 2.	~ ~	794			-+			0.1%
	22 Capsella bursa-pastoris		•	<u>m 11</u>	.170	<u>'</u>		-+-	794						0.1%
	22 Rumex crispus	_	•	<u>P</u>		+		-+-	2 094		-+				0.1%
	22 Verbena bractaeta		•	m	904	+			2 794	<u> </u>	-1	-1-	-1-		0.1%
E	22 Unk. Forb -828	_	벁	<u></u>	7	<u>'</u>		-+-	1.3%	t	-1	-1			0.0%
	22 Helianthus annuus		1	<u>m</u>		 - -		-+-	0.7%	t		-1			0.0%
- r	22 La picium campastra		10	in j		1	1			· · · ·			_	_	and the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the second design of the s

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	endix 3 (Cont.)		r		94	of Ourse	drats F	Tese	rt I		%	Cover			-		
-rr			_		70 0		heb/Qf		94	June	95 Ju	ne96 A	ug95	Aug9	5 IMP		
Not	Species	_	_	Parcya		<u>yao </u>	Julyst	-+-	1.3%						0.	0%	
221	Sveimbrium altissimum	•	m					-+-	0.7%						0	0%	
쑮	Mellotus officinalis	•	m	2.8	<u>×</u>				0.7%						0	0%	
			u					-+-	0.7 %	1 1 1	12 2	43%	3.9%	11.9	% 0	0%	
22	Tholum Hydriber											86%	45 4%	53.3	% 0	.0%	
<u>72</u>	Bare Ground									3.0		24%	15 29	23.3	1% 35	.7%	
22	Litter	5	0	72.3	%	75.0%	86.1	1%	78.0%	22-	221	6 78	11 34	6	196 22	7%	
23	Bouteloua curapendula		5	97.3	% 1	00.0%	97.	2%	<u>94.7%</u>	9.0	- 10	0.770	3.04	2		7%	
23	Agropyton smithi	-	<u> </u>	27	96	47.2%	33.	3%	47.3%	5.	3%	1./2	3.07	<u> </u>		284	
23	Convolvulus arvensis	10	P	10	IQK I	52.8%	22	2%	52.0%	8.	0%	1.7%				270	
23	Bromus japonicus	e	m	13.	20	50.0%	5	6%	22.7%	3.	3%	2.3%	3.39	6 <u>Z</u> .	3%	.070	
23	Schizachvrium scoparium	in	P	21.	20	<u>50.0 %</u>	- 27		14 79	3.	0%	1.3%	1.79	6 3.	<u>)%[</u>	2%	
	Register Virgatum	n	P	8.	596	8.370	21.		EE 79	2	0%					.8%	
23	Paricult virge	e	m	33.	3%	30.6%	13.	976	30./7	4	<u> </u>					.2%	
23	Bromus accordin		m	30.	5%	33.3%	11.	1%	24.79	<u> </u>		0.20		1 0	396	9%	
23	Lactuca semola	1	1			25.0%	16.	7%	4.79	<u> </u>		0.370	4.30	, v.	<u> </u>	0%	
23	Tragopogon dubius	10	1	- 2	896	2.8%	8	3%	0.79	6			1.0	<u>~</u>		100	
23	Taraxacum officianale	le	₽.	1 12	o act	10 49	1	-	8.79	6						1.370	
23	Helianthus annuus	n	m	13	320	13.4 A	<u>'</u>	+	4 79	6			0.3	<u>% 0</u>	3%	0.6%	
22	Bromus inermis	e	P			5.07	<u>}</u>			ž						0.6%	
4	Ohurefie viminiene	In	U	1		8.39				 -	+				-T	0.5%	
	De de anomum locinatim	e	m	1	<u> </u>		1 11	.1%	2.07		+					0.5%	
23	1 Pooospermum lacing and	1.	1	T	T	8.39	6		8.0	<u>></u>			<u> </u>		3%	0.4%	
2:	3 Camelina microcarpa	+	1-	+		5.69	6			10	.3%			<u> </u>		0.3%	
2	3 Melilotus alba	+	<u>+</u> =				1		8.7	*			L			<u></u>	
2	3 Allysum minus	4	100	4	101	E 69	1	1	5.3	*				_		0.370	
17	3 Descurainia sophia		n In	4_11	170	5.07				-						0.2%	
۲ŧ	3 Aristicle DUTDUTER	J	1 p			5.6%	≈↓			+		0.3%				0.2%	
<u>ال</u>	Ol Dautalous amacilis	Tr	١D	T						-+			t	-1-		0.1%	
Ľ	S BOUTEROUS YISCHIS	-ti	n le	1	- T			2.8%					t	-+-		0.1%	
2	3 Sporobolus cryptancius	ť	ال						2.7	%			╂───	-+		01%	
2	3 Asciepias speciosa	- #		+	6%				2.7	%				_+_		0.00	
2	3 Sysimbrium altissimum	4		4	0.0		-+		1.3	%			1			0.070	
H	3 Aster faicatus	1	n p				<u> </u>		07							0.0%	
H	2 Cimium antense		e p				_			ã –						0.0%	
H			nIr	51					1.2	2	2 60	9.49	1 9	9%	9.3%	0.0%	
		-†	~ 							11	3.070	0.47			2 7%	0.0%	
12	23 Bare Ground	-+	╈				-			3	3.2%	64.07	5 54.		7 702	44.8%	
	23 Litter		-	-	194	83.3	% 8	6.1%	80.7	7% 2	3 <u>.5%</u>	16.29	6 17.	0% 2	1.1 m	20.00	
	4 Boutelous curtipenduls	-	<u>n </u>	21-8	7 294	80.6	% 8	6.1%	95.3	3%	8.5%	3.79	6 10.	0%	3.3%	20.070	
	24 Aaropyron smithii	_	<u>n</u> μ	5 3	270	- 60.0		9 39	47	3%	5.6%	2.49	6 4.	0%	3.0%	12.4%	
H	A Complutus arvensis		9	의 그	3.9%	50.3		17.994	22	796	1.0%	1.0	6			4.1%	
H	A Beomus ianonicus		•	m	8.3%	33.3	70 4	27.07	44.		2.0%					2.7%	
H	24 Brothus jopenne lecipatum		•	m 1	6.7%	22.2	2% 2	27.8%	<u></u>	270	2.0 %	0.3	- t-	_	0.7%	2.3%	
	24 Podosperindin dome.			m	8.3%	36.1	1%	8.3%	3.	3%	0.37	0.0	çi o	34	1.0%	2.2%	
	24 Tragopogon dubius	_			8.3%		<u> </u>	19.49	8.	7%	1.0%	0.3				1.5%	
12	24 Panicum virgatum	_				8.3	396	5.69	6 2.	7%	0.3%	1.4	2			4.494	
Г	24 Schizachyrium scoparium		<u>111 </u>	<u> </u>	E 0%	10	496		15	3%		1	_			4.40	
	24 Helianthus annuus		<u>n l</u>	<u>m </u>	5.0%	- 22	204		8	0%	1.09	5				1.470	
h	24 Camelina microcarpa		•	<u>m </u>		44.	270		1 3	796	3.69	6				1.2%	i
H	24 Trificum aestivum		e	m		L		44.45		794					0.7%	1.2%	
F	24 Metions alba		•	m	2.8%	13.	3%	11.15	ᄥᅳ	:///		+	_			1.0%	İ.
H				m		16.	7%			./ 70	0.75	. 		396		0.8%	
L	24 Lacuca seriora	_	İn	0		5.	6%	5.6	<u>× 0</u>	.7%	0./9	₽┥───	-+- `			0.6%	1
L	24 Psoraled tenuinora		t.	5		5.	6%	11.1	%			4	_	+		0.5%	L
1	24 Allysum minus		╞			5	.6%	8.3	*			- -	_			0.4%	1
ſ	24 Taraxacum officianale	-	1	<u>₩</u> -1	8 20		3%		1 2	.0%						U.470	1
h	24 Bromus tectorum		10	1 <u>m </u>	10.07	1 °		82	का नि	3%		T				0.4%	1
t	24 Polygonum sp.		u	lu l		+		E.C	<u>~</u>			1				0.2%	4
ł	24 Yucca glauca		n	IP .		+		5.0	4	200						0.1%	
ŀ	24 Descurainia sonhia			m	2.89	6			-+	1.370			-+-			0.1%	2
1	24 Desculation soprat		Tn	101						2.0%		_				0.1%	1
	24 Gaura coccinea	_	-#-	1.1-		1		2.8	%			_				1 0.10	8
	24 Physalis virginiana	_	-1"	≝+			-+			1.3%							Н
	24 Unk. Forb -831		-10	IIII -				_		0.7%						1 0.0%	4
	24 Sysimbrium altissimum		-	Im			+		-+		18.6	% 27	7%	22.9%	22.79	6 0.0%	2
	24 Bare Ground					+		<u>.</u>	-+		240	196 47	0%	44.9%	41.09	6 0.09	6
	2411 ittm	_	Т	TT									194	17 1%	23.69	6 26.19	6
		_	1		91.7	% 8	8.9%	100.0	3% 5	6.0%	23.		:/// -	0.5~	12 10	6 20.99	5
	25 Pestuce preterisis		÷		41 7	% 7	2.2%	100.	0% 6	8.7%	14.0	5% 25	-270	8.370	13.1	1 12 00	1
	25 Poa pratensis			<u>+#</u> +	22.2	x 2	6.1%	83	3% 5	5.3%	3.	3% 13	5%	6.9%	<u>0./</u>		-
	25 Trifolium hybribum			-1-1-	44.4	<u>~</u> "		12	096	2.7%	8.	9% 12	.6%	2.6%	6.4	6 0 D	츼
	25 Bromus inermis		!	<u>IP</u>				13.		X 70	1 7	396	.9%	0.3%	2.4	<u>6 3.7</u>	*
	25 Trifolium pratense			e ip	2.8	%	0.3%	<u></u>		44.00	1 1	396	0%	3.39	0.7	6 3.6	*
	25 Componities anansis		T	• p I				25	1070 4	44.07	╢╌╬		1.6%	1.0%	1	3.4	%
	23 Contratos al tonato		-	n lu I	36.1	% 5	5.6%	8	<u>3%</u>	13.3%	4-1-	- 150	<u></u>	1.0 A	1 07	30	51
	25 Hordeum jubalum		-+					66	7%		6.	3%			+ **	2 22	Ť
	25 Trilolium tragnerum		-+	╧╫╧╋			2.8%	50	.0%	19.3%	0	7%			1 1.0	AL 42	3
	25 Taraxacum officianale			<u> </u>		-+	8 394	50	0%		T		2.3%	1.09	<u>ها</u>	1 22	70
	25 Cichonium intybus			e p			0.070	<u>, , , , , , , , , , , , , , , , , , , </u>				_					

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Арр	endix 3 (Cont.)		ſ		N -4 0	Inter Draf	tra		S Cove			
				Dart04	76 OF QUE	tub/96	Aliga	June 95	June 96	Aug95	Aug96	IMP
Plot	Species	_		16 79	9 394	<u>301930 </u>	13.3%	6.3%	Janeou			2.0%
25	Agropyron smithi	n	<u>P</u>	22 294	20.6%	5.6%	8.0%		0.3%	0.7%	0.3%	1.9%
25	Lotus tenuis		2	22.270	23.394	0.0 ~	6.0%			0.7%		1.6%
25	Poa junctiolia	n	P	20.070	33.5%	13 0%	0.0 7	0.3%		3.3%		1.4%
25	Agropyron repens	8	<u>P</u>	25.0%	8 394	19.4%	12 7%	0.3%	0.3%			1.3%
25	Rumex crispus	e	P	20.070	46 794		2 7%		0.0 10	0.7%		0.9%
25	Polygonum aviculare	•	m	0.070	6.6%	8 3 %	2.7 %	0.3%		1.0%		0.8%
25	Ambrosia tomentosa	n	m	00.00	3.070		2.0%	0.3%				0.7%
25	Carex simulata	ת	P	33.37	11.170		0.0 %	0.7%		0.3%	1.3%	0.6%
25	Dactylis giomerata	•	P				0.770	0.7%	0.6%	0.3%	0.7%	0.6%
25	Medicago sativa	0	P				4.170	0.7%	0.070	- 022	<u> </u>	0.4%
25	Medicago luputina	•	m				8.0%	0.7%				0.3%
25	Chenopodium album	e	m	2.8%			9.3%			<u> </u>	┣───	0.3%
25	Melilotus officinalis	e	m				7.3%	ļ	0.3%	 	ł	0.3%
25	Plantago major	9	P	2.8%	2.8%	5.6%	1.3%					0.370
25	Eleocharis elliptica	n	U							L	1.07	0.270
25	Poa compressa	e	P				4.7%				Ļ	0.2%
25	ha avillaris	În	D		2.8%		2.7%			L		0.2%
25	A star fakatus	In	6				0.7%	0.3%			1	0.1%
25	Alter acaus						0.7%	0.3%				0.1%
42	Camelina microcame	ţ,	m				2.0%				1	0.1%
읟	Camenna microcarpa	te	Ē	<u> </u>		5.6%		1	T	1		0.1%
25	Mantago lanceolata	10	놑			<u> </u>	1.3%	1		T	T	0.0%
25	Lactuca sernola	10	Im				0.7%	1	t		1	0.0%
25	Podospermum lacinatum	e	Ē				0.74	<u> </u>	·	1	1	0.0%
25	Lepidium campestre	e	<u>I</u> m	L	├ ────	<u> </u>	0.7%		<u> </u>	1	1	0.0%
25	Unk. Forb -833	lu	<u>u</u>	ļ	L		0./%	7 64	1 20	0.04	449	0.0%
25	Bare Ground						ļ	1.070	40.00	44 40	27.79	0.0%
25	Litter	Ι_	1_		L			18.4%	19.07	91.47	31.11	24 496
26	Festuca pratensis	e	P	100.0%	97.2%	100.0%	70.0%	17.7%	35.09	20.17	20.47	17 694
26	Bromus inermis	e	ĪP		88.9%	58.3%	55.3%	22.5%	11.27	4.37	10.07	17.07
26	Poe pretensis	e	ĪΡ	77.8%	100.0%	94.4%	70.7%	12.0%	12.29	5.79	8.79	17.6%
20	Trioium monibum	le	Ťū	72.2%	100.0%	61.1%	57.3%	0.6%	4.09	5.79		9.4%
1 20	Trifelium fracilea III	te	10	30.6%		30.6%	30.7%	5 11.4%		1		42%
120	Company apposit	Ť	15	5.6%	11.1%	22.2%	52.0%	1.9%	1.39	6 0.79	6	3.6%
140	Convolvalas arvensis	Ť	15	8.3%	13.9%	50.0%	7.39	0.6%	1.09	0.79	6 0.39	6 2.7%
26	Dectylis giomerala	t	15		38.9%	25.0%		2.5%			0.39	6 2.3%
26		₽	뽄		30.6%	27.8%	6.79					1.8%
26	Mehlotus omcinalis	0	1	2 996	5.6%		26.09	6 0 69			0.79	6 1.4%
26	Medicago lupulina	10	100	2.0 %	11 194	10.4%	4 09	6	1	0.39	6	1.1%
26	Taraxacum officianale	10	P	0.37	22.28	12.9%	5 39	ž 1	<u> </u>	-		1.1%
26	Rumex crispus	10	LP.	0.37	24.27	13.5%	5.57	⁴	+	+		0.6%
26	Camelina microcarpa		m		22.27		4 70	, 	+			0.5%
26	Lepidium campestre	10	m	8.3%	2.8%	11.1%	4./7	빅	+	, 	+	0.5%
26	Agropyron smithii	jn	P		<u> </u>				1 2.03	<u> </u>		0.4%
26	Polygonum aviculare	e	m		<u> </u>	13.9%	1.39	<u> </u>	+	+		0.4%
20	Agropyron repens	Ie	P		1	2.89	<u> </u>	_	+	+	+	1 0.170
26	Poa compressa	Je	P				3.39	6	4			0.1%
12	Asclepias vincifiora	T	IP		2.8%	6			<u> </u>			0.1%
1-2	Ambrosia osilostachva	Ť	1 D	T	1		2.09	Ж			1	0.1%
1	A char fair at 18	t,	16	1		T	2.05	*				0.1%
ا يد	Cichogum inhhue	ť		+	1	1	T		0.3	%		0.1%
		ť.		<u> </u>	+		3.3	%				0.1%
2		╀	ť	.t	2.89	6	1.3	*	1		T	0.1%
20	Di Lactuca serriota	+	:#=	: 	+	+	1 20	%			T	0.1%
12		-	-1-	<u>'</u>	+	+	1 27	*	1	-		0.1%
2	6 Allysum minus	4	<u>a 11</u>	4	+		2 4.1		+			0.1%
2	5 Medicago sativa	-1	e ib		<u>+</u>	2.0%	<u></u>	<u>~</u>	+			0.00
2	6 Unk. Forb -834	1	u lu	4		+	- <u></u>	~ _ ~	2	x 17	W 50	
2	6 Bare Ground		_		·		+	0.0		A 57 0		
2	6 Litter		_		+	+		23.4	70 JI.4	21.10	04 44	AL 29 70
12	7 Convolvulus arvensis	_	e p	100.09	6 100.09	6 100.05	<u>ъ 100.0</u>	70 10.9	<u>2/.1</u>	70 20.0	70 14.	10 30./7
ち	7 Barberea orthoceras		n lu	86.1	6 91.79	6 22.2	<u>% 86.7</u>	76 11.3	<u>70 0.7</u>	70		10./9
トラ	7 Lactuca serriola		e n	n 2.89	6 33.39	6 94.4	% 0.7	% 0.3	% 4.2	% 0.7	76 4.0	<u> 120 121</u>
H	7 Membium vulcere		elr	2.89	6	19.4	% 16.7	% 2.0	% 4.9	% 0.7	% 5.	3% 6.29
Нź	7 Verhene bractaste	t	e	n 55.69	6 72.29	6 88.9	% 34.7	%	1.3	96 0.7	/%	5.51
H		+		8.3	6 19.4	6 8.3	% 12.0	% 5.0	%			3.09
		-+	÷ť,	22.20	× 38.9	6 33.3	% 14.7	%	0.3	3%		2.39
12	/ Astragalus agresos	-+	÷ť	10.4	× 22.2	55 F	6 67	196	1.0)%		2.19
12	7 Androsace occidentalis	4	-	13.4	222	× 120	<u> x</u>	20	st 1	396		2.01
2	7 Erodium cicutanum	4	<u>• i</u>	<u>"</u>		- 13. 3	-			94		1.8
2	7 Melilotus officinalis	_	박	n	-	.			<u> </u>			1 8
2	7 Unk. Forb -836		u li	4	12.2	2	<u>. U.1</u>	7	<u></u>			70/ 4 7
	7 Tananaan dubius	1	e i	n	8.3	50.0	%	0.3	67		U.	/ 70 1./

Арр	endix 3 (Cont.)		1		8 ef 0	dante Dro	tort		S Cove			i i
			-	Part04	huko5	Juk/96	A1194	June 95	June 96	Aug95	Aug96	IMP
Plot	Species		1	2.8%	836	19.4%	16.7%		1.0%			1.5%
27	Plantago patagonica			2.07	5.6%	361%	10.1.2		2.3%			1.4%
27	Bromus tectorum	-			3.0 %		6.0%	0.7%	0.3%	1.0%	0.3%	1.2%
27	Asciepias pumila	-	2		11 1 94	36.1%			0.7%			1.1%
27	Silene antimina	-	m	2.00	44 4 64	44 48	6.0%	0.7%				1.0%
27	Gaura coccinea	<u>n</u>	<u>P</u>	2.07	11.170	10.4%	4.0%	0.1 2		1.0%		0.9%
27	Kochia iranica	•	m			13.4 %	4.0 %		3 3%			0.8%
27	Aster porteri	n	P			16 78		1.0%	0.3%	l		0.8%
27	Allysum minus	0	m	44.49	0.20	10.77	2.2%	1.0 0	0.5 %	ł		0.8%
27	Chamaesyce glyptosperma	n	Π	11.170	0.270	£2.270	3.370	0.3%	0 396	1.0%		0.8%
27	Psoralea tenuiflora	n	P	2.8%		2020	2.070	0.00	0.370	1.0 %	0.7%	0.7%
27	Melilotus alba	•	m				8.37	0.20		┣───	<u></u>	0.6%
27	Centaurea diffusa	θ	u			19.4%	2.0%	0.370		0.7%		0.0%
27	Thelesperma megapotamicum	n	P				9.3%			<u> </u>	 	0.0%
27	Evolvulus nuttalianus	n	P	5.6%		2.8%	12.7%			<u> </u>	0.70	0.0%
27	Taraxacum officianale	e	Ρ		2.8%	5.6%				 	0./70	0.5%
27	Chenopodium dessicatum	n	Ē		16.7%		1.3%					0.5%
27	Verbascum thansus		m			8.3%					0.7%	0.5%
27	Solenum triflorum	e	m		19.4%							0.5%
27	Benerus inconicus	e	m			13.9%			0.3%		I	0.4%
14	Podosnemum lacinatum		m	<u> </u>	8.3%	8.3%						0.4%
14	Linum lauieii	Īn	6	<u> </u>	1	1	0.7%	0.7%				0.3%
14		In	اہ	1	t	t	1	0.7%		1	1	0.3%
12/			F	<u> </u>	<u> </u>	2.8%	1	1		T	0.3%	0.2%
27	Amprosia psilostachya	쁟	12		8 38		+	t		1	1	0.2%
27	Cirsium arvense	10	P.	<u> </u>	<u> </u>	44 48	 	t		1	1	0.2%
27	Monarda pectinata	<u>n</u>	m	 	 	1.1.7		ł	<u> </u>	+	0.3%	0.24
27	Rosa arkansana	In	IP.	Į		<u> </u>	- 70	0.20		+	1	1 072
27	Penstemon secundifiorus	In	P.	L	L		<u>U./%</u>	0.3%	 			0.1%
27	Poe pratensis	e	P.			2.8%		<u> </u>	<u> </u>			0.17
27	Unk. Grass - 193	ļu	P		5.6%						<u> </u>	0.17
27	Asclepias viridiflora	n	P		2.8%	2.8%			ļ			0.1%
1 37	Cichorium intybus		P					0.3%			1	0.1%
27	Neceta cataria	le	Б	1			2.0%					0.1%
1 27	Sobooralcas coccinia	'n	16		1		T	Г		0.39	6	0.1%
1 37	Oppendices coccine	fn	5		1			1		0.39	6	0.1%
4	Oxydaprids inteans	1	te Te		<u>+</u>	5.6%	1		1			0.1%
2/	Polygonum sp.	1	!	<u> </u>	2.8%		1	1	t			0.1%
2/	Unk. Ford -925		쁜		1.00		0.79	1		1		0.0%
27	Unk. Ford -835	ļu	Im				+	40 7%	15.09	26 89	6 20.99	0.0%
27	Bare Ground	╇	+	<u> </u>	 		+	22.5%	20 19	38 19	52 29	0.0%
27	Litter	+-	_		00.48	00.00	0.00	0.20	0.99	16 29	5 39	17.5%
28	Poe compresse		ĮP.	94.4%	86.19	00.97	5 90.07	9.37	2.07	(220	4 6 09	77%
28	Ambrosia psilostachya	n	P	66.7%	69.4%	//.8%	60.09	1.07	2.07	0 3.07	4 4 69	6.0%
28	Andropogon gerardii	In	р	25.0%	27.89	50.09	5 36.79	0.37	3.07	6 4.37	4.07	5 0.0%
28	Sporobolus asper	n	IΡ	41.7%	75.0%	6 22.29	6 39.39	6 1.0%	2.29	5 3.0	4.07	0.070
28	Boutelous gracilis	In	ρ	36.1%	38.99	5 30.69	6 46.09	<u>5 2.0%</u>	3.89	0.7	<u>, 33</u>	<u>el 5.0%</u>
28	Aster fakatus	n	P	36.1%	38.99	6 47.29	42.09	6 1.39	2.89	6 0.79	2.39	<u>a 4.3%</u>
28	Panicum virgatum	n	P	33.3%	47.29	6 38.99	6 38.79	6 0.79	<u>1.39</u>	<u>6 3.0</u>	5 2.0	6 4.0%
1	Ademisia lucioviciana	In	Þ	69.4%	36.19	6 44.49	6 66.09	6 1.09	2.29	6 1.0	6 1.6	6 4.0%
1	Aster porteri	1n	10	1	25.09	6 33.39	6	1.79	1.69	6 2.0	6 0.79	<u>6 2.9%</u>
H-	Carey beliophylle	T.	1F	44 49	25.09	6 27.89	6 36.09	6 1.39	1.69	5 1.0	6 0.7	6 2.8%
14		╬	ť	50.09	16.79	6 41.79	6 20.09	6 2.09	6	2.0	*	2.5%
H ²		+	12	55 69	33.39	6 52 89	43.39	6	0.6	6 0.3	× 0.7	5 2.3%
		10	12	27 20	27.9	6 8 20	6 32 00	6 3.09	6 0.3	8		2.2%
28	Bromus japomicus	-ta	<u>+</u> "	1 21.07	27.07	4 5.07	× 20.00	1 1 00		1 17	\$ 1.0	2.2%
28	Munienbergia wnghu	4	ΨP	20.09	21.07	0 0.07	K 40 7	<u>ki 1.07</u>	1 1 2		K 10	8 2.09
22	Sorghastrum avenaceum	1	1P	1 33.39	22.29				1 00	<u>~ (.0</u>	~	2 09
2	Acetosella vulgaris	10	1P		36.19				<u>el 0,8</u>	~	110	
2	Schedonnardus paniculatus	ſ	p	33.39	6 <u>33.3</u> 9	b 27.8°	<u>5 14.79</u>	0.79			1.0	4 4 9 4
2	Koeleria macrantha	Г	IP	25.09	6 <u>16.79</u>	5 27.89	<u>% 47.3</u>	b 0.3°	b 0.6	70 U.3	70 0.3	
21	3 Tragopogon dubius	Ţ	n	n 36.19	6 27.89	<u>5 2.89</u>	<u>% 37.3</u>	<u>% 1.09</u>	6 0.3	%		1.49
2	B Opuntia macronhiza	11		27.89	6 16.79	6 36.19	\$ 22.7	% 0.7 9	6 0.3	%	_	1.49
	S Tracia ramosa	Tr	Te	13.99	6 25.0	6 16.7	\$ 28.7	*		0.7	% 0.3	% 1.39
1-2	B Ovelis dilenii	Ť,	ال	27 89	6 19.4	\$ 22.2	% 44.0	6 0.3	6			1.29
H#		÷	ť	9.30	6 22 2	6 13 9	\$ 27.3	× 0.3	*		0.3	% 1.19
12		ť	Ŧ	25.04	<u> </u>	1111	8 27 3	K 10	6 03	%		1.09
2		+	1	23.07		K 40.4	2 200	2	<u> </u>	03	96	1.09
2	si Dalea purpurea	-"	ιĮ	33.5	19.4	- 13.4°	20.0 N	~ 		a 1		1 0.94
2	8 Poe pratensis	4	2.46	4		1.13.9	7			2	- 10	<u>al no</u>
2	8 Schizachyrium scoparium	ľ	1	13.99	b		18.7	<u>70 U.3'</u>		20		A 0.07
2	B Listris punctata	I	۱ľ	11.19	5.6	ъ 5.6	<u>% 9.3</u>	%	03	0.7	20 0.2	<u>~</u>
2	8 Aristida purpurea	1) 11.1	6	5.6	% 14.0	%	0.3	0.7	2	0.6
15	8 Dectylis alomerate	1	1	11.19	6 8.3	% 5.6	% 2.7	% 0.7	% 0.3	5%		0.69

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Appendix	3 (Cont.)	
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ipponent i i					% of Quadrats Present						S Cover							
Diet	Conciet		- 1	Par	194	Juty95	Juty96	5 A	194 1	une95	June96	Auges	Augso	0.6%				
201			P		33.3%		2.8	5%	46.7%					0.5%				
201		n	0			16.7%	5.6	5%			0.3%	0.3%		0.5%				
28			6		5.6%	8.3%	5.6	5%	6.0%		0.3%	0.3%		0.57				
28	Agropyton situati	-	2	-	5.6%	11.1%		-	6.7%	0.3%		0.3%		0.5%				
28	Poa arida		2	-	0.0%		22.2	x 1	2.0%	0.3%				0.5%				
28	Kuhnia eupatonodes	n	P	-	0.5 %	2 894	16		16.0%					0.5%				
28	Plantago patagonica	n	m	_	30.0%	2.0 %	10.1	~		0.7%		0.3%		0.4%				
28	Muhlenbergia montana	n	P					-+-	44.00	0.1 2				0.4%				
28	Alhum textile	n	P		19.4%	13.9%			14.0%	0.20		— —		0.4%				
1 281	Gutierrezia sarothrae	n	P		8.3%	2.8%	5.	5%	10.0%	0.3%			├ ──	0.4%				
1 581	Camelina microcarpa	e	m		22.2%	8.3%	2.1	8%	22.0%				┣	0.4%				
1 481	Cameina microca po	à	D		8.3%		8.	3%	28.7%				↓	0.47				
28	Hypencum penoraum	5	1	┢─	11 1%	5.6%	19.	4%	6.7%					0.4%				
28	Linum lewisu	m	10	┢─			8	396				0.3%	0.3%	0.3%				
28	Bromus inermis	e	IP.	_				<u>~</u> +	2 7%			0.3%	0.3%	0.3%				
28	Buchloe dactyloides	n	P	_			┼────	-+	22.3%					0.3%				
28	Sitanion longifolium	n	U		13.9%	2.8%			23.37		0.394	+	+	0.3%				
28	Grincielia squarrosa	n	m			8.3%	5.	6%		0.00/	0.0 %	+	+	0.3%				
1 201	Helienthus ricidus	n	P	Г		8.3%				0.3%			+	0.3%				
49	Diantago lagonolata	le	Б	1		8.3%				0.3%			+	0.24				
120	rianago anconata	Ī	In.	1	13.9%				18.7%				+					
28	Lomatum oriental	t:	皆	+			2	8%	2.7%		0.3%			0.2%				
28	Gaillardia anstata	t.	벁	+-	8 204	<u> </u>	1-5	8%	10.7%					0.2%				
28	Senecio plattensis	1n	Į₽.	+	0.370	0.20	1	884	534		1	T		0.2%				
28	Lepidium campestre	e	1m	4-	19.4%	8.08	4-4	.0 8	15.2%		t	1	1	0.2%				
28	Opuntia fregilis	n	P		8.3%		<u> </u>		13.37			+		0.2%				
20	Silene antimbina	e	m	I	13.9%		2	.8%	14.7%		+	+	+	0.2%				
140	De hanning sewelchense	In	m		8.3%	2.89	6 8	.3%	2.0%				+	1 012				
28	Longer antique	1n	1 m	+		1			8.7%		1	+	+					
28	Juncus arcticus	+:	٣	┿	5.6%	2.89	6 2	8%	5.3%					0.1%				
28	Alopecurus aequalis	+"	ΗP	+	0.00	1	+		2.7%		0.39	6		0.1%				
28	Bromus tectorum	10	111	4-	0.3%	·	+		2 004	t	1		0.3	\$ 0.1%				
28	Dicanthelium oligosanthes	n	I III	1					2.0%	<u> </u>	╉────			0.1%				
20	Lolum perenne	•	π	1	11.1%				6.0%		+	+		0.1%				
20	Auringon divaricatum	1.		T	5.6%				8.7%		<u> </u>	+	+	- 0.12				
20	Musineon artemotifolia		10	, †		5.69	6						_	0.17				
28	Ambrosia artemesiiolia	÷	1	+-		1			1.3%	0.39	6			0.1%				
28	Artemisia Ingida	+Ľ	12	-	2.89	839	6		0.7%	1				0.1%				
28	Lactuca semiola	-	10	4	2.07	- 0.07		894	8 7%		1			0.1%				
28	Podospermum lacinatum		9 10				_		0.7%		+			0.1%				
28	Taraxacum officianale	1	2 10			5.6	<u>.</u>	_	0.77	4	+		+	0.1%				
1 28	Complyulus arvensis		P						5.37			+		0.1%				
	Euchorhia spathulata	1	nIn	n	5.69	2.8	%		4.0%	·			~	0.1%				
4				5							<u> </u>	0.3	*	0.1%				
22	Amorpha hana	ť		<u>+</u>	8 39	6			5.3%	6				0.1%				
21	B Linum usitatssimum	-ť	+	-	0.0.				2.09	6		0.3	%	0.1%				
21	Drymocallis fissia	-#	<u>n </u> F	4		+	-+		+	03	*			0.1%				
21	8 Rose arkansana		n li	1		+	. -		+	+	~ -	_		0.1%				
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	B Veronica peregrina	Т	0 1	m		5.6	%			+	<u> </u>	+		01%				
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2		-	<u>,</u> t	+	_	1			3.39	6				0.0%				
2	8 Carex Drevior	-	÷ť	<u>-</u> +					2.09	6				0.0%				
2	8 Eleocharis elliptica	_		<u>+</u>				_	1 3	*				0.0%				
2	8 Avena fatua	\neg	•	m					1 3 20	*	1	_		0.0%				
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H				u İ		2.8	3%				_			0.0%				
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12	28 Cichonum imyous	_	12	벅	2.8	<u>«</u>	-+-		20	8				0.0%				
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	28 Nothocalis cuspidata	_	n	Р			-+			ã –				0.0%				
- H	8 Ratibida columnifera		n	P	2.8	76	_		- 3.3	~				0.0%				
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H	281 Omeha moters		n	m	2.8	%			3.3	96	_	\rightarrow						
			In						2.0	96				0.0%				
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29 Andropogon genital In P 333% 52,8% 60.4% 40,7% 1.0% 2.3% 1.7% 3.3% 52,8% 60.4% 40,7% 1.0% 2.3% 3.3% 1.3% 4.3% 3.3% 52,8% 30.7% 3.0% 52,8% 33.7% 2.3% 3.3% 1.3% 4.3% 3.3% 52,8% 3.0% 2.3% 3.3% 53.8% 0.7% 3.3% 55,8% 40.7% 3.0% 2.3% 3.3% 55,8% 40.7% 3.0% 2.3% 3.3% 52,8% 3.0% 2.3% 3.3% 52,8% 40.7% 1.0% 3.3% 55,8% 40.7% 1.3% 3.3% 52,8% 3.0% 2.3% 3.3% 4.1% 3.3% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% 50,8% </td <td>29 Poo</td> <td>oa compressa</td> <td>0</td> <td>ľ.</td> <td>-</td> <td>2.8%</td> <td>52.8%</td> <td>3</td> <td>8.9%</td> <td>55.3</td> <td>%</td> <td>3.0%</td> <td>8.0%</td> <td>8.4</td> <td>2</td> <td>2.070</td> <td>10</td> <td>27</td>	29 Poo	oa compressa	0	ľ.	-	2.8%	52.8%	3	8.9%	55.3	%	3.0%	8.0%	8.4	2	2.070	10	27
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22 Ambrosis psilostacity 11 0 61.13 56.33 52.78 33.76 2.3% 3.3% 1.3% 4.3 29 Pericum virgetum n.p. 41.7% 33.3% 55.6% 40.0% 2.0% 1.7% 3.3% 4.3% 1.3% 4.3 3.3% 55.6% 40.0% 2.3% 0.7% 1.3% 1.3% 4.3% 29 Azter porteri n.p. 41.7% 33.3% 55.6% 40.0% 2.3% 0.7% 1.3% 4.3% 3.3% 1.3% 4.3% 3.3 1.3% 1.3% 4.3% 3.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3%	29 Box	suteloua gracilis		E.		17 2%	30.6%	7	5.0%	40.0	%	0.7%	5.3%	0.7	<u>×</u>	3.6%		270
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128 Muthenbergie wrightu In IP 22.2% 5.5% 25.0% 34.7% 0.3% 0.7% 2.3% 3.3% 2.1% 29 Sporobolus asper n IP 22.7% 5.6% 22.7% 0.3% 1.3% 2.7% 0.3% 1.3% 2.7% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3%	29 Bo	outeloua curtipendula	11	먣	┢╌┤	22 24	8.34		16.7%	18.0	196	1.0%	2.7%	0.7	7%	4.3%	4 3	20
28 Sporebolus asper In IP 22.18% 10.7% 27.8% 22.7% 0.3% 1.3% 2.7% 0.2% 0.3% 0.7% 0.3% 2.7% 0.3% 0.3% 0.7% 0.3% 0.3% 0.2% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% <td< td=""><td>29 Mu</td><td>uhlenbergia wrightii</td><td>10</td><td>12</td><td>┢╌</td><td>22 294</td><td>5 69</td><td></td><td>25.0%</td><td>34.7</td><td>196</td><td>0.3%</td><td>0.7%</td><td>2.</td><td>3%</td><td>3.39</td><td></td><td>.17</td></td<>	29 Mu	uhlenbergia wrightii	10	12	┢╌	22 294	5 69		25.0%	34.7	196	0.3%	0.7%	2.	3%	3.39		.17
29 Sorghastrungvenacoum In p 41.0% 11.1% 25.0% 33.3% 2.0% 0.7% 0.3% 2.3% 29 Carex heliophylle n p 34.4% 11.1% 25.0% 33.3% 2.0% 0.3% 0.3% 1.0% 2. 29 Tragis ramosa n p 25.1% 38.9% 44.4% 33.3% 21.3% 0.3% 0.3% 1.1% 29 Dates purpurse n p 27.8% 44.4% 33.3% 21.3% 0.3% 0.7% 1.1 20 Dates purpurse n p 52.8% 16.7% 22.3% 1.0% 0.3% 1.1% 21 Opurtie mecraftize n p 55.8% 33.3% 25.0% 10.3% 0.3% 1.1% 2.3% 0.3% 1.0% 0.3% 1.1% 23 Dates facatus n p 5.5% 33.3% 2.0% 1.1% 2.3% 0.3% 1.0% 0.7% 0.7% 0.3% 1.1% 2.3% 0.3%	29 Sp	porobolus asper	臣	뽄	+	27 894	16.79		27.8%	22.7	196	0.3%	1.3%	2.	7%		1-1	.57
129 Carex heliophylle In p 35.1% 38.3% 44.4% 25.3% 0.3% 0.3% 1.0% 2.1 29) Tragie ramosa n p 25.1% 38.3% 44.4% 25.3% 0.3% 0.3% 0.3% 1.1% 1.3% 0.3% 0.3% 0.3% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 1.1% 0.3% 0.7% 1.1 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 0.3% 1.1%	29 So	orghastrum evenaceum	t,	12	+	AA AQ	11 19		25.0%	33.3	3%	2.0%	0.7%	0.	7%	0.39	4	22
29) Tragia ramosa n p 30.1 m 50.5 m 51.7 m 57.7 m 1.7 % 1.3 % 0.3 % 1.1 29) Drymocallis fissia n p 22.2 % 25.0 % 16.7 % 8.7 % 1.7 % 1.3 % 0.3 % 1.1 20 Dales purpurse n p 27.8 % 44.4 % 33.3 % 21.3 % 0.3 % 0.7 % 1.1 20 Opurtia macrantha n p 52.8 % 16.7 % 25.0 % 47.3 % 0.3 % 0.7 % 1.1 20 Opurtia macrantha n p 5.8 % 33.3 % 25.0 % 17.3 % 0.3 % 1.0 % 1.1 20 Astis dillenii n m 5.6 % 11.1 % 18.7 % 2.7 % 0.3 % 1.1 20 Astis dillenii n p 6.3 % 11.1 % 18.7 % 2.7 % 0.3 % 1.0 % 23 Attrant factatrs n p 5.6 % 11.1 % 2.8 % 6.7 % 2.7 % 0.3 % 1.0 % 1.1 % 29 Aremaria fendlerii n p 7.2 % 19.4 % 30.6 % 32.7 % 0.3 % 1.0 % 1.0 % 1.0 % <td< td=""><td>29 Ca</td><td>arex heliophylla</td><td><u>In</u></td><td>ĮΡ.</td><td>+-</td><td>44.470 26 4 M</td><td>38.09</td><td>1</td><td>44 4%</td><td>25.3</td><td>3%</td><td></td><td>0.3%</td><td>0.</td><td>3%</td><td>1.09</td><td>4</td><td>2.1%</td></td<>	29 Ca	arex heliophylla	<u>In</u>	ĮΡ.	+-	44.470 26 4 M	38.09	1	44 4%	25.3	3%		0.3%	0.	3%	1.09	4	2.1%
29 Drymocellis fissie n p 227.8% 24.4% 23.3% 21.3% 0.3% 0.7% 1 29 Dalea purpurea n p 52.8% 16.7% 23.3% 1.0% 0.3% 0.3% 1.0% 0.3% 1.0% 0.3% 1.1% 0.3% 0.3% 1.0% 0.3% 1.1% 0.3% 0.3% 0.3% 0.3% 0.3% 1.0% 1.1 1.1% 1.0% 1.1 1.0% 1.1 1.0% 0.3% 1.0% 1.1 1.0% 1.1 1.0% 0.3% 1.0% 1.1 1.0% 1.0% 1.1 1.0% 0.3% 1.0% 1.1 1.0% 1.1 1.0% 0.3% 1.0% 1.1 1.0% 0.3% 1.1 1.0% 0.7% 0.7% 0.3% 1.1 1.0% 1.0% 0.3% 1.1 1.0% 1.0% 1.1 1.0% 1.0% 1.0% 0.3% 1.1 1.0% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3%	29 Tre	ragia ramosa	n	ĮΡ.	+	30.170	25.09	1-	16.7%	8.7	7%	1.7%	1.3%	0	3%			1.9%
29 Dalea purpurea In Ip 21.03% 49.3% 1.0% 0.3% 1.1 29 Koeleria macrantha n Ip 10.7% 25.0% 49.3% 1.0% 0.3% 1.1 29 Opurtia mecrothiza n Ip 19.4% 38.9% 16.7% 23.3% 0.3% 0.7% 1.1 29 Davis dilenti n Im 5.6% 33.3% 25.0% 17.3% 0.3% 1.0% 0.1% 1.1 20 Aster falcatus n Ip 8.3% 11.1% 18.7% 2.7% 0.3% 1.1 29 Aster falcatus n Ip 47.2% 19.4% 30.6% 32.7% 1.0% 1.1 29 Bromus jeponicus e Im 5.6% 1.9% 32.0% 2.0% 1.0% 1.1 29 Itris purctate n p 22.2% 77.8% 1.3% 1.0% 1.0% 1.1% 29 Bromus jeponicus e Im 41.7% 2.8% 3.3% 1.0%	29 Dr	Prymocallis fissia	<u>In</u>	<u>ι</u> Ρ	+-	11.270	23.07	1-	33 34	21	3961			0.	3%	0.79	6	1.8%
29 Koeleria macrontha n p 32.0% 10.7% 23.3% 0.3% 0.7% 11 29 Opuntia macrontiza n p 19.4% 38.9% 23.3% 0.3% 0.7% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 0.3% 1.0% 1.0% 0.3% 1.0% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3%	29 De	alea purpurea	<u> n</u>	IP.	+	41.0%	46 70	2	25 04	49	396	1.0%				0.39	6	1.7%
29 Opuntia macronhiza in p 19,4% 36,3% 10,7% 17,3% 0.3% 1.0% 1.1 29 Oxalis dillenti in m 5,6% 33,3% 25,0% 17,3% 0.3% 1.0% 0.7% 0.7% 0.3% 1. 29 Aster falcatus n p 6,3% 11,1% 30,0% 1.0% 0.7% 0.7% 0.3% 1. 29 Aster falcatus n p 6,3% 11,1% 30,0% 2.7% 0.3% 1. 29 Arenania fondlerii n p 47,2% 19,4% 30,6% 32,7% 1.0% 1. 29 Listris punctate n p 2.2% 27,8% 13,9% 12,0% 0.3% 1.0% 1. 29 Boutekous hirsuta n p 5.6% 9.3% 9.3% 0.7% 0.3% 0.7% 0.3% 0.7% 0.3% 0.7% 0.3% 0.7% 0.3% 0.7% 0.3% 0.7% 0.3% 0.7% 0.3%	29 Ko	oeleria macrantha		<u>IP</u>	+	52.8%	10.77		16 7%	23	14		0.39	0.	7%			1.6%
29 Oxalis dillenii n m 5.6% 33.3% 23.3% 23.0% 17.05 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.3% 1 29 Aster falcetus n p 47.2% 19.4% 30.6% 32.7% 1.0% 1 1 29 Arenerale fondlerii n p 47.2% 19.4% 30.6% 32.7% 0.3% 1.0% 1 1 29 Lietris punctate n p 22.2% 27.8% 33.9% 32.7% 0.3% 1.0% 1 1 1 29 1 10% 0.7% 0.7% 0.7% 1.0% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% <td>2910</td> <td>puntia macrorhiza</td> <td>15</td> <td>I P</td> <td>1</td> <td><u>19.4%</u></td> <td>30.97</td> <td></td> <td>25.0%</td> <td>17</td> <td>38</td> <td>0.3%</td> <td></td> <td>1 1</td> <td>0%</td> <td></td> <td></td> <td>1.6%</td>	2910	puntia macrorhiza	15	I P	1	<u>19.4%</u>	30.97		25.0%	17	38	0.3%		1 1	0%			1.6%
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29 Buchloe dectyloides n p 2.8% 5.5% 0.7% 0.3% 0.0% 29 Carnelina microcarpa e m 19.4% 11.1% 22.2% 20.7% 0.3% 1.0% 0 29 Carnelina microcarpa e m 19.4% 11.1% 22.2% 20.7% 0.3% 1.0% 0 29 Carnelina microcarpa n p 5.6% 7.3% 0.7% 0.3% 1.0% 0 29 Gutierrezie sarothrae n p 8.3% 22.2% 5.3% 0.3% 0.3% 0.3% 0 0 29 Aristida purpurea n p 2.8% 13.9% 4.7% 0.3% 0.3% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29 A	Aaropyron smithii		nje	2	8.39	8.3	2	5.07		70	1 09	0.3		.7%	0.3	%	0.9%
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29 Aristide purpuree n p 2.8% 13.9% -7.7% 0.0% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% <td>2916</td> <td>Gutierrezia sarothrae</td> <td></td> <td>nj</td> <td></td> <td>8.39</td> <td>6 8.3</td> <td>70</td> <td>417</td> <td></td> <td>794</td> <td>0.07</td> <td>03</td> <td>8</td> <td></td> <td>0.3</td> <td>3%</td> <td>0.5%</td>	2916	Gutierrezia sarothrae		nj		8.39	6 8.3	70	417		794	0.07	03	8		0.3	3%	0.5%
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29 Peronychia jamesii n p 2.8% 13.9% 5.0% 6.0% 29 Hypericum perforatum e p 2.8% 13.9% 3.3% 0.3% 29 Hypericum perforatum e p 2.8% 13.9% 3.3% 0.3% 29 Plantago patagonica n m 8.3% 11.1% 5.6% 0.3% 29 Bromus tectorum e m 2.8% 10.0% 0.3% 29 Allium textile n p 16.7% 2.8% 14.0% 0.3% 29 Lomatium oriental n p 36.1% 16.7% 0.3% 29 Dalea candida n p 5.6% 5.6% 0.3% 0.3% 29 Rosa erkensana n p 2.0% 0.7% 2.0% 0.3% 0.3% 2.3% 0.3% 2.3% 0.3% 2.0% 0.3% 2.0% 0.3% 2.0% 0.3% 2.0% 0.3%	201	Kuhnia eupatoriodes		n	рŢ		+	_	112	<u>-</u>	007			-1-		1		0.4%
29 Hypericum perforatum e p 2.8% 13.9% 3.3% 0.9% 29 Plantago patagonica n m 8.3% 11.1% 5.6% 13.3%	2017	Paronychia jamesii		n	pΙ	2.8	<u>6 13.9</u>	7%	5.6	<u>~ </u>	2.070		-+	-+-	0.3%	1		0.4%
29 Plantago patagonica n m 8.3% 11.1% 5.6% 13.3% 29 Plantago patagonica n m 8.3% 11.1% 5.6% 13.3% 0.3% 29 Bromus tectorum e m 2.8% 10.0% 0.3%	201	Hypericum perforatum		e	Ρ	2.8	%	_	13.9	~	2.270	┨────	+	-1-		+	-†	0.4%
29 Bromus tectorum e m 2.8% 10.0% 0.3% 29 Allium textile n p 16.7% 2.8% 14.0% 0.3% 29 Allium textile n p 16.7% 2.8% 14.0% 0.3% 29 Lomatium oriental n p 36.1% 16.7% 0.3% 29 Dalee candida n p 5.6% 5.6% 0.3% 29 Rosa arkansana n p 13.3% 0.3% 0.3% 29 Eleocharis elliptica n u 2.0% 0.7% 10.3% 29 Poa arida n p 3.3% 0.3% 0.3%	201	Plantado petagonica		n	m	8.3	<u>% 11.</u>	1%	5.6		0.070	├ ─────	1 63	at -		1		0.3%
29 Allium textile n p 16.7% 2.8% 14.0% 0.3% 29 Lomatium oriental n p 36.1% 16.7% 0.3% 0.3% 29 Lomatium oriental n p 36.1% 16.7% 0.3% 0.3% 29 Dalee candida n p 5.6% 5.6% 0.3% 29 Rosa arkansana n p 13.3% 0.3% 29 Eleocharis elliptica n u 3.3% 0.3% 29 Poa arida n p 3.3% 0.3%	201	Bromus tectorum		•	m				2.8	2 1	4.00	1 0 3		<u> </u>		1	+	0.3%
29 Lomatium oriental n p 36.1% 16.7% 0.3% 29 Dales candida n p 5.6% 0.3% 0.3% 29 Dales candida n p 13.3% 0.3% 0.3% 29 Rosa arkensana n p 13.3% 0.3% 0.3% 29 Rosa arkensana n p 3.3% 0.3% 0.3% 29 Eleocharis elliptica n u 3.3% 0.3% 0.3% 29 Poa arida n p 3.3% 0.3% 0.3%	201	Allium textile		n	P.	16.7	%		2.8	7 1	4.070	1 33	2 1	+		+		0.3%
29 Delea candida n p 5.6% 5.6% 0.3% 29 Rosa arkansana n p 13.3% 0.3% 13.3% 29 Rosa arkansana n p 13.3% 0.3% 13.3% 29 Eleocharis elliptica n u 3.3% 0.3% 13.3% 29 Poa arida n p 3.3% 0.3% 13.3%	5	Lomatium oriental		n	P	36.1	%			$\frac{1}{2}$	0./70	1 0.3		+		10	3%	0.3%
29 Rose arkensena n p 13.3% 0.5% 29 Eleocharis elliptica n u 2.0% 0.7% 0.3% 29 Pos arida n p 3.3% 0.3% 0.3%	201	Dalea candida		n	Р		5.	6%	5.6	*	2 200			+	0.39	đ	-	0.3%
29 Eleocharis elliptica n u 2.0% 0.7 // // // // // // // // // // // // //	201	Rosa arkansana		n	Р					41	2.370		-	796	0.01	1-		0.2%
29 Poe anda n p 3.3% 0.5 m	20	Fleocharis elliptica		n	U					_+	2.0%	<u>'</u>	- 		0.39	<u>st</u>		0.2%
1 2 9 9 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	5	Pos arida		In	p				<u> </u>		3.3%	?		-+-	0.00			0.2%
29 Schedonnardus paniculatus In p 2.0 % 0.0 % 2.1 %		Schedonnardus paniculatus		n	p		2	.8%	5.6	5%	2.7%	<u>+</u>		+-		+		0.2%
2.14 https://www.communication.com/2.8% 2.7% 0.3%	20	Heterotheca villosa		In	Ip I		2	.8%			2.7%	<u>el 0.3</u>	- 14			+		0.2%
201 exitium densificum m 11.1% 0.7%		Leordium densificaum	-		m				11.1	1%	0.7%	<u></u>	_+			-+		0.2%
	1	Diagthus amoria		1	p						13.3%	6	_+	_+		.		0.24
20 Contracts and a contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10 Contract (10		Empedure autofiance		Ť	16	5.6	5%				2.79	6		 +	کرں	~		0.24
29]	刀			10	m	5.	5%			1	10.09	6	0	.3%		.		0.2
29 Linum ustatassimam c m 8,3% 2.0% 0.3%	29		-	10		8.	396				2.09	6			0.3	<u>»</u>		0.27
291Enoportum alaum in p 4.7%	29		_	╬	T,				1		4.79	6						1 0.17
29 Juncus arcacus	29	9 Juncus arcocus	_	분	1-		-1		5.	6%						_		0.17
29 Juncus kongistryks 10.0%	29	9 Juncus longistylis	_	+-	12	8	396		1		10.07	6						1 0.17
29 Hordeum juberum nig 0.00 83%	29	9 Hordeum jubatum	_	1	12	<u> </u>			8	3%						_		0.19
29 Muhlenbergia montana n p 56%	29	9 Muhlenbergia montana	_	-10	<u> 12</u>				1 5	6%								0.19
29 Sitanion longitolium 1 2 8% 6.0%	29	9 Sitanion longitolium	_	_1^	14	<u> </u>	90K		+		6.0	%						0.1
29 Musineon divenceturm n p 2.078 2.96 3.36	29	9 Musineon divaricatum	_		<u>IP</u>	1-2	070		+	294	33	96						0.1

Appe	ndix 3 (Colle.)		Г		-	of Qued	rats Pre	sen	1		% Cov	x					
			-+	Part94	J		ulv96	AIK	4	June95	June96	Aug	95	Aug	96 IN	<u>AP</u>	_
201	pecies	. †	, †	5.69	6			1	2.0%	0.3%			_			0.1	2
29			m		1				5.3%						_+	0.1	2
291	Presimum esperum		D		\top		2.8%		2.7%			+-				0.1	2
201	epictum campestre	8	m						1.3%		0.39	4			-+-	0.1	70
291	esquerella montana	n	u		Τ	2.8%			2.7%			+			204	0.1	
201	chinoceneus viridifiorus	n	P		T				2.7%			╋			370	0.1	2
291	Dountie fragilis	n	Ы	2.89	6			-	4.7%			+			+	0.1	70
20	Silece antimbina	e	m				_		6.7%			+-				- 0.1	70
20	lectvserum boreala	n	P		Τ				2.0%		0.39	4_				0.	170
20	Melilotus officioalis	e	m	30.6	6			1	1.3%		L	+			-+	<u></u>	
20	Ondmois lambadii	n	P		Т			1	4.0%	L		┶			+	0.	17
		n	D				5.6%		2.0%			┶			+	0.	
29	Ombanhus finaris	n	D						1.3%			+	0.3%		+	0.	
23		n	0		+	2.8%			0.7%			+		L		0.	
-29		n	u I		+		8.3%					1				0.	12
29	Cooperfur berbaceous	n	0		-			Γ				+		_	3.3%	0.	170
- 29	Comparis umbellata		D		1			Т	2.0%		0.3	×		L		0.	1%
29	Comencia universita		<u> </u>		+			T		0.3%				L		0.	1%
29	Disc the fum of cost at thes	n	m	<u> </u>	-+			T	0.7%					L			0%
29		-	Ē	2.8	%			Т	0.7%					┣		0.	076
29		Ē	m	<u> </u>	-			T	0.7%					1		0.	0%
29	Setana glauca	5	5	t	-†		2.89	1				Т				0	.0%
29	Gaillerola anstala	1	H <u></u>	28	-			1	0.7%				_			0	.0%
29		ا	1	+	-+			\mathbf{T}	0.7%			. ·				0	.0%
29	Lappula recowskii	H÷	i"	<u> </u>	-			+	0.7%							0	.0%
29		17	ال	t	-+			+	2.0%	1		Т			1	0	.0%
29	Cerastum arvense	1	12	+	-+		2.89	d -	0.7%		1					0	.0%
29	Tradescanta occidentalis	In	HP-	+	-+-			-1-	1.3%	1		Т		Τ.		0	.0%
29	Euphorbia spathulata	<u>1n</u>	Im	 				+	2.0%	1						0	.0%
29	Astragalus shortianus	<u>In</u>	ĮΡ.	·····	-+			╈	1.3%		1					0	.0%
29	Lotus tenuis	10	IP.		-+			+-	2 79			-				0	.0%
29	Vicia americana	면	몓	╂	-+			╋	2.74		1					0	.0%
29	Scutellaria brittonia	10	먣	+				+-	2.09		+			T		0).0%
29	Leucocnnum montanum	Iu	1P	<u></u>	20			╋	0.79	(+	-†-		\top		0	.0%
29	Calylophus semulata	fu	IP.	[<u> </u>	╉	0.7%	(+	-			0	0%
29	Penstemon gracilis	1	1P	- 2.0	2			╉	0.79	<u> </u>	+	-+		\top		0).0%
29	Physalis sp.	1	u	+	~			╋	0.79		+	-+).0%
29	Viola nuttallii	ļn	ĮΡ	2.0	201			╋	0.77	12 49	6 15.0	7%	15.79	6 1	13.2%		0.0%
29	Bare Ground	╇	+-	<u> </u>	-+			╋		47.7	\$ 37.0	796	46.89	6 3	39.1%		0.0%
29	Litter	+	+	+	~ †	07.00	07.2	. +-	80 39	1 77	161	396	5.09	6 2	21.0%	27	7.3%
30	Bouteloua gracilis	ſ	P	88.	20	9/270	912	2	65.79	2 2 1	2 2	796	6.49	6	6.7%	1:	3.6%
30	Buchloe dactyloides	1	ιĮΡ	69.	20	00.9%	50.0	~	00.77	2 25 2		79		Ĩ-		1 1	1.5%
30	Bromus tectorum	4	1	<u>1 97.</u>	2%	100.0%	50.0	2	21 29	232		19	3.79	6	1.7%		8.4%
30	Agropyron smithii	1	ĽΡ	55.	5%	38.97	44.4	곍	21.07	2 28		ost l		-+-	0.3%		5.3%
30	Podospermum lecinatum	4) (n	1 69.	170	70.9%	00.0	~	64 00	<u>k</u>	~ ~	392		╈			4.4%
30	Plantago patagonica	4	<u>n</u>	n <u>83</u> .	3%	12.2%	91.2	2	64.01		-+			╋			3.1%
30	Bromus japonicus	4	ļn	n <u>63</u> .	9.20	09.4%	44.4	2	33.9	<u></u>		-+	13	st-	1.0%		3.0%
30	Artemisia dranunculus	1	ין י	13.	3%	27.89	30.6	~	33.35		<u>~</u>	-+		-+-		+	2.7%
30	Vulpia octoflora	1	n ļr	n <u> 52</u> .	0%	94.49	11.1	괵	50./	21 43	2	+		╉		+	2.6%
30	Sitanion hystrix	1	n (F	50.	0%	80.69		 	30./		a 4	34	03	, t	0.79	d-	2.5%
30	Tragopogon dubius	_	9 T	n <u> 11</u> .	1%	11.19	38.5	22	3.5			~~	0.0	~+		+	2.0%
30) Camelina microcarpa	1	<u>e r</u>	n 27.	8%	61.19	6 16.7	26	23.3	2	- 192			-+-		+-	1.6%
3	Lepidium densifiorum		0 1	<u>π 30</u>	6%	36.19	<u> </u>	~	10./	2 07		702	0.3	a t	1 39	it-	1.3%
3	Convolvulus arvensis		0			L	+	_	3.3	<u> 광</u>			0.3	2	0.39	21-	1 14
3	Heterotheca villosa	1	n	2	_	<u> </u>		_	4.7		2010	. / 70	0./		0.07	<u>-</u>	1.0%
3	Stipe cometa	Ī	n	2					11.3	2 1	2		<u></u>		0.07	╩┣-	0.00
3	Allysum minus		eli	m 5	.6%	13.99	6 5.6	5%	4.0	1.1	- 1					+	0.0%
13	Spheeralcea coccinia		n	p 8	.3%	11.19	6 5.	5%	24.0	76				2		+	0.0%
13	Carex heliophylla		n	P					11.3	96 1.	5%		0.3	270		╋	0.07
13	Echinocereus viridifiorus		n	P 2	.8%	8.39	6 19.	4%	8.0	96				_		╋	0.77
	0 Kuhnia eupatoriodes		n	P.					2.0	1% 0 .	3%		0.7	~		+	0.07
F	O Hordeum vuicare		e	m 11	.1%	11.19	*		17.3	96			L	_		_	0.57
H		-	n	m 5	.6%	5	13.	9%	1.3	3%					0.3	<u>*</u>	0.59
	O Opuntia macmutriza		n	0 16	.7%	13.9	% 2.	8%	11.3	3%							0.51
	O Adamicia finida		n	<u></u>		8.3	%	_	2.0)% 0.	3% ().3%					0.49
				6 6	.39	5	11.	1%	2.0	0%).3%				Г	0.49
E	O Asiatida autouta	-		<u> </u>		1	-		2.0	0%					0.7	%	0.39
Ľ	U Ansua purpurea	-	H	<u></u>		28	96		8.7	7% 0.	3%					Т	0.39
Ľ		_	1	<u> </u>		+			0	7%	_		0.	3%		Τ	0.3
1	O Psoralea tenumora		屵	<u></u>	_	+	+		<u> </u>			0.3%				T	0.29
-	O Dee earthernii		in İ	DI		1	1		I			1.2	1			_	-

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Арр	endix 3 (Cont.)		I		% of Out	drat	s Prese	ant		% Cove	ĸ			
r				Part94	July95	Juh	v96 A	1194	June95	June96	Au	95 A	Jg96	MP
Plot	Species	0	•	1 0.004	ddiyee	-		0.7%	0.3%				0.3%	0.2%
30	Yucca glauca	5	3			<u> </u>		0.7%		0.3%				0.2%
30	Cirsium ocnrocentrum	0						6.7%	0.3%		T			0.2%
30	Descurainia pinnata							5.3%	0.5%					0.2%
30	Erodium cicutanum				2.8%			0.7%						0.1%
30	Musineon divancatum	1	Ľ.	8 34				6.0%						0.1%
30	Lactuca semola	F.		0.00			-+	4.7%			Г			0.1%
30	Leppula redowskii	In.	m			 		4 0%			1			0.1%
30	Sysimbrium albssimum	Ľ-	im	<u> </u>		 		8.0%			1			0.1%
30	Androsace occidentalis	<u>n</u>	m	├ ────		 _		2.0%						0.0%
30	Koeleria macrantha	<u>In</u>	P_	ļ		+		0.7%			1-			0.0%
30	Sporobolus asper	n	IP.					2.7%			+-			0.0%
30	Alhum textile	IU	<u>Р</u> .	<u> </u>	<u> </u>	<u> </u>		2.1 %			1			0.0%
30	Lygodesmia juncea	n	IP.	Ļ		+		0.7%		{	+			0.0%
30	Thelesperma megapotamicum	n	P	┟───	<u> </u>		+	0.7%			+			0.0%
30	Gaura coccinea	n	P		<u> </u>	<u> </u>		0.7%	I		+-			0.0%
30	Eriogonum effusum	In	Ρ.	Ļ	0.0%	┢		0.770						0.0%
30	Viola nuttallii	In	₽	L	2.8%	·	+		16 7%	4.70	<u> </u>	6 4%	4.7%	0.0%
30	Bare Ground			L	<u> </u>	<u> </u>			20.6%	64.69	2 7	3.8%	60.7%	0.0%
30	Litter	1	┡	L		+		20.00	30.070	42.0	2 '	8 494	13 7%	25.4%
31	Convolvulus arvensis	e	Р	36.1%	52.8%	17	11.0%	30.0%	0.1%	13.3			<u></u>	19.3%
31	Bromus tectorum	e	Įm	100.0%	100.0%	4-5	91.2%	12.1%	20.17	1 3.0	2 -	7 40	439	13.6%
31	Agropyron smithii	n	Р	38.9%	30.6%	44	27.8%	40./%	1 3.37	3.3	2 -		0.3%	10.6%
31	Plantago patagonica	n	ļm	91.7%	63.9%	1	94.4%	80.0%	2.0%	3.0	읡-	<u> </u>	0.0 #	4 0%
31	Sysimbrium altissimum		İm	19.4%	44.4%	4	30.6%	18.0%	4.27	<u> 0.7</u>	╩┼╌	0.7%	1.0%	318
31	Artemisia dranunculus	In	P	52.8%	13.9%	4	22.2%	33.3%	4-0-	+	-	1 70	1.078	3.12
31	Verbena bractaeta	Ð	m	T	5.6%	6 1	<u>11.1%</u>	2.7%	0.3%	1.1	2	1./%	1.370	3.170
1 31	Ademisia fricicla	In	IP	38.9%	19.49	6	30.6%	25.3%	0.3%	0.3	≥	+		2.970
片	Leogule recowskii	In	m					40.7%	1.69					1.070
1	Leppon recention		Im	5.69	22.29	5	27.8%	13.3%	<u>.</u>				_	1.6%
1 31	Reproduction Constitution	10	Im		- 16.79	6	8.3%	16.79	5	0.7	×1_			1.4%
1 31	Brunius porneus	1n	1D		25.09	6	19.4%		Τ				0.3%	1.4%
1 31	Bouleioue gracius	tn	16	8.39	11.19	6	11.1%	2.09	6				1.0%	1.3%
31	Buchide decividices				13.99	6	11.1%	2.79	6				0.3%	1.0%
31	Chamaesyce diyplospering						13.9%	1.39	6	0.3	%	0.3%	_	0.8%
31	Aster lacalus	1.		2.89	5.69	6	5.6%	2.09	6 0.39	6 0.3	%	0.3%		0.8%
31	Sphaeraicea coccima	1.				1		2.09	6	0.7	%		0.7%	0.7%
31	Ansida parparea	╡	15	+	8.39	6		6.09	6	0.7	%			0.6%
31					2.89	6	19.4%							0.6%
31	Lactuca semicia	+		\ 	2.89	хI-	8.3%		0.79	6 0.3	%			0.6%
31	Erodium cicutanum	+5		10.4	6 8 39	ž –	•	12.09	6					0.6%
31	Monarda pectinata	Ŧ	1	1 13.43	56	21	13 9%	12.01						0.5%
31	Taraxacum officianaie		2 P		5.6	<u>e</u> t-	10.0 %	279	6	+	-	0.3%		0.5%
31	Chenopodium dessicatum		1 (П	<u> </u>	- 3.0	~			0.39	6 1.3	196			0.5%
31	Marrubium vulgare	+	212		13.00	<u>-</u>	5 6%			~				0.5%
31	Veronica peregnna		-		41 40	x -	0.0 8	139	6		-t			0.4%
31	Hordeum vulgare	4		<u>"</u>		2-		1 2 00	6 03	×1	-+			0.4%
31	Androsace occidentalis	-#	1	<u></u>	- 0.3	2		1 1 20	× <u></u>		-+			0.3%
31	Vulpia octofiora	4	<u>n r</u>		1 0.0	~		1 1	[-+	0.3%		0.3%
3	Solanum triflorum	-	e r	<u></u>				+ "	~	-+	-+			0.2%
3	Allium textile	-	n F	<u></u>	<u> </u>	~		1 1 2	<u>_</u>		-t		0.39	6 0.2%
3	Heterotheca villosa	4	n ļr	<u>\</u>				+ 1.3	~		-+	0.3%	<u> </u>	0.2%
3	1 Lygodesmia juncea		n ļr	×		+		+	×		+	0.0 /0	 	0.2%
3	1 Allysum minus	-	e I	n		_		$\frac{1}{3}$	~ ~~	~	-+		 	0.2%
3	1 Draba reptans		n li	n				2.7	<u>» 0.3</u>	~		0.20	 	0.2%
3	1 Psoralea tenuiflora		n]j								_	0.376	0.26	0.2%
3	1 Verbascum thepsus	\square	eli	m				_					+ 0.35	0.270
13	1 Descurainia sophia	T	•	m				2.7	%				 	1 0.170
13	1 Lepidium latifolium		•	P I		Ι		1.3	%	_				0.0%
Ť	1 Bare Ground		1			Ι			25.7	% 8	6%	10.4%	9.7	
F	1 Litter		-			T			23.5	% 45	2%	69.6%	66.7	% <u>0.0%</u>
L,	2 Bromus inermis		T	D 72.2	% 91.7	'%		84.7	% 52.1	% 31	.5%	31.0%	11.4	% 28.6%
Ľ	2 Medicano saliva			61.1	% 94.4	1%	100.09	6 48.7	% 12.1	% 17	.8%	35.3%	23.1	% 26.8%
L ³	2 mourage sauva			102	% 72 2	96	100.01	6 14.7	% 22.	5% 20	2%	12.6%	23.7	% 22.6%
Ľ		-			8 33	1	30.69	6 46 0	96 07	10	.9%	6.1%	9.2	% <u>10.1</u> %
13		-	-	27 9	a 10 /	ix	33.39	6 33	3% D:	3% 1	.9%	0.69	1.6	% 5.0%
Ľ	2 I araxacum omcianaie	_	-	<u>x - 21 x</u>	13.4	~~	8 20	2 1 7	39 2	96 2	2%	1.29	6 1.3	% 1.7%
13	2 Festuca pratensis	_		P		-+		7 207	196	<u> </u>		t	1	1.09
	2 Chenopodium album			m 33.	20	 +		+ 20.1	704			1 29	d	0.99
	2 Cirsium arvense		•	P	0.	낅				70		<u> </u>		0.89
	2 Lactuca serriola		•	m 2.8	11.1	176		-		70				0 49
	2 Descurainia sophia		e	m 11.1	1% 2.0	5%		Z.	(%) 1.	270		1	_	

						C	-te D	reset	nt			% Cov	ef Clauros	5 TAU	696	IMP		
Appendix 3 (Cont.)					<u>% of</u>		ulv96	5 All	94	Jun	e95	Junes		~+-		0.4	<u>×</u>	
			arts	<u>M</u>	JUIY	396				10	3%		+-			0.3		
Plot Species	•	m			-	33%				<u>+</u>			+					
32 Marva neglecta	<u>n</u>	2	40	4%					4.79	위					_	1 0.	i de la	
32 Alopectitus sp.	10				-			_ 	1.37	4-	_			_		1 0	18	
32 Amera fatua	벁		_	_			2	.8%	200	. t-					_	10	1%	
32 Phieum pratense	Ē	the state					_	+	2.0		0.3%		4	1.3%		10	1%	
32 Poa pratensis	1.	Im	-					+	0.7	%	0.3%			+		10	.1%	
32 Arctium minus	te	m		2.89	4	_		+	2.0	96		1-		+		0	.1%	
32 Tregopogon dubius	Te	m			+-			+	2.0	196	_	+	-+-				1%	
32 Thiaspi arvense	1	n m		8.39	6		+		2.7	1%		+	-+-				19	
32 Chamaesyce grypicsperme	1	nP	L		ᡱ᠆		+		2.0	796	_	+-	-+			19		
32 Oxybaphus Aneans		nlu	┢	2.8			+		2.	0%		+-	-+			-+-		
32 Eriogonum sp.	-	<u>e n</u>	4-	2.0	┹-		\top		0.	7%	_	+				-+-	0.0%	
32 Fallopia convert	_	er	1	28	8		T			쓹		+-					0.0%	
32 Bromos teores pestoris	_		₽-		-				<u>+-</u> "	<u>/</u>	1.0	196	2.2%	2.5%	1 35		0.0%	
32 Plantago lanceolata	_	٣٣	4		T		+		╉╼╸		5.9	9% 1	3.4%	9.27	1 20	796	15.4%	
32 Bare Ground		++	+					00.09	d a	0%	45.	0% 4	3.7%	42.07	14	196	17.8%	
32 11 itter	_	6	at	100.	0%	97.2	% 1	11 19		7.3%	24.	8% 1	72%	21.07	1 1	.6%	10.3%	
33 Bromus inermis		e	T			5.6	100	27.89	6 1	9.3%	22	2%	6.1%	29		.3%	7.9%	1
33 Dactytis glomerata		e	P	2	8%	30.0	2	27.8	× 4	1.3%	1	3%	4,970	8.5	× 1	.6%	6.4%	4
33 Festuca pratensis	_		P	2	.8%	19.4	494		13	4.0%	3	.9%	3.28	0.7	%	2.3%	4.5%	4
33 Taraxacum officialitate			P	2	.8%	19.	396	27.8	% 1	7.3%	5	3%	36%	3.3	% 4	4.3%	4.07	읨
33 Medicago saliva		9	2		.370	<u> </u>		13.9	1% 1	3.39	<u>61</u>	1.070	0.077		Ŀ		2.07	
33 Cirsium arvense		e	P		194		-+	30.6	5%	3.39	6	+	_				0.29	뮝
33 Convolvulus ai vensis		In	P	-1		1 11	.1%		_	6.79	<u>b</u>	+					02	Ĩ.
33 Cardana charop	_	_#	12			2	.8%		_	_	+-			L			01	
33 Oxydeprilos 11/5	_	-#	<u>IP</u>	–		1	÷	2.	8%	20	. -				-+-	_	1 0.0	3
33 Aster Randoutt SP.	_			+					+	- 07	운 -			1	.	7.9%	0.0	
331 actuce serriole		{							+	0.7	-	0.3%	0.6		784	43.3%	0.0	16
33 Poe pratensis			Ŧ	+				_	+	_	-	1.6%	16.2	6 14	694	15.79	17.	5%
33 Bare Ground	_		1					75	096	41.3	3%	11.8%	16.7	2	696	3.39	6 9.4	196
33 Litter					25.0	<u>× 5</u>	2.8%	귀성	7%	74.	0%	3.6%	4.0	21-1	0%	5.79	6 8.	7%
34 Festuce pratensis		_	n		86.1	<u>% </u>	3.37		7.8%	43.	3%	4.6%	6.0		5.3%	4.0	6 8 .	6%
34 Juncus arcticus	_		•		75.0		19 49	6 3	8.9%	57.	3%	15.01	1 67	7%	2.0%	6.7	<u>× 7</u>	570
34 Dectyfis glomoraus			0		50.0	70	38.99	8 3	0.6%	72	0%	4.07	2	-11	0.6%	16.0	× /	.170
34 Lotus tenuis			0	라-	52.0	270				16	.0%	2.57	6 6.	7%	7.0%			18
34 Poe prateristo			1	2-	AA	4%		T		160	. / 70	3.9	× 2.	3%	0.7%	2.4		6%
34 Sparana post		_	1	2+	41	7%	30.6	% 4	17.29		2.7%	3.3	% 1	.3%	0.3%	1	796	2.7%
34 Carex nebrascensis			╬	l e t-	44	4%	30.6	3%	44.49		4.0%	62	% 0	.7%	0.3%	++	7%	2.6%
34 Trifolium pratense	_	_	10	151	2	.8%	11.1	96	30.07		0.7%	0.3	% 0	7%	_	+ =	0%	2.3%
34 Agrostis gigantee			Ť	151	47	2%	11.1	120	8 3	<u></u>		7.8	196	.0%		1 0	7%	2.1%
34 Taraxacum officianale	_	_	Tu	IP I			8.	270	0.0	73	7.3%	2.9	198	1.37		3	.7%	1.8%
34 Carex sp.			le	p	3	5.1%	<u>11.</u>		50.0	96	2.09	<u> </u>	3%	+		11	.3%	1.7%
34 Phleum praterise			T	n p			_	-+	27.8	3%	34.79	<u>6 0</u>	<u></u>		0.3	% ().7%	1./2
34 Carex lanuginose				nip	-2	2.270	25	.0%	22.2	2%	4.09	아 약	201-			1).7%	1.070
34 Ranunculus Incoord		_	1	n IP	┣-¹	0.17			25.0	0%			≝ ″†−			1	0.3%	0.996
34 Rose erkeineris elliptice	_		_	nu	+-	2.2%	8	3.3%	27.	8%	5.3	2 1	0%				+	0.9%
34 ENOCINETING ST				n P.	+	19.4%			16.	7%	18.0	ő l				-+-	1 0%	0.6%
34 Tritolium hybribum	_		-			27.8%	1	1.1%	5.	읡	<u>,0.0</u> 7	96			+	-+-	<u></u>	0.5%
34 Plantago lanceolata			_		+	2.8%	J		16	-774	14	196	1.3%		–	-+-		0.5%
34 Andropogon gerardi	_	_		lele	T	16.7%	4-						3.3%		1 0	396		0.5%
34 Agropyron repens			_	10 Tu		_	4		+	5.6%		T		1.09	<u><u> </u></u>	~+	0.7%	0.5%
34 Briza media	_	_		0	5L		+-	2 8%	+	8.3%	4	7%	_	200	. †	-+		0.5%
34 Bromus inermis				n	4		+-	2.0%	+	يتحصينا في		_		2.0				0.3%
34 Achillee lanutose				n	타		+-		+		11	.3%	U./70		+			0.3%
34 Monarda Tistulosa	_			e	吘		+-	8.39	6						1		0.39	0.37
34 Cirsium arvense				_ <u>_</u>	먹	27	st-		TI	1.19	فيسها	2.0%	0.7%	+	T			1 0.2%
34 Cerastum avoire				-10	m		sil-	_	T		11	1.370	1.3%	+	T			1 02%
34 Porygonan atte			_	-12	쁥				T		+	2 3 2		1		0.3%		02%
34 Unit. Fore brevior	_			- #=	뿑十		-				+-	2.37				_		0.2%
A Ascientes specios					間	8.	3%				_ †-	0.7%			_	_	1 03	96 0.1%
34 Rumex crispus	_	_	_		Tu l	2.	8%		_+-	11.1	-	<u> </u>		1-		_	+	0.1%
34iUnk. Forb -914			_		D				_+-	_	-+-		0.3	×1				
34 Agropyron cristati	m		_		P													
34 Phalaris arundina																		

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and the second second

Арр	endix 3 (Cont.)		5		% of Que	drats Pres	sent		% Cover			
		٦	-	Part94	July95	July96	A1194	June95	June96	Aug95	Aug96	IMP
Plot		•	m			2.8%		0.3%				0.1%
34	Comptium outlans	n	m					0.3%				0.1%
34	Marticano lupulina		m					0.7%				0.1%
- 24	Tritolium repens	0	P.						0.3%			0.1%
- 24	Acetosella vulgaris		Р				2.7%				_	0.1%
34	Unk Forb -927	U	U		2.8%							0.1%
34	Unk, Grass - 192	u	U	2.8%			0.7%					0.0%
34	Hippochaete laevigata	n	m				0.7%					0.0%
34	Unk. Forb -915	u	U	2.8%			0.7%	1.200	9.2%	3.0%	8 396	0.0%
34	Bare Ground							1.3%	27 34	54 6%	22.0%	0.0%
34	Litter					100.00	100.00	50.40	51.070	50.6%	51 2%	61.9%
35	Bromus inermis	e	ρ	100.0%	100.0%	100.0%	100.0%	30.178	204	4 344	1 0%	4.3%
35	Rosa arkansana	n	Ρ	30.6%	25.0%	33.3%	19.370	1.076	2.0 %		0.3%	4.0%
35	Convolvulus arvensis	e	P	36.1%	10./70	41./70	10.0%	3.6%	1.6%	0.3%	3.0%	3.4%
35	Lupinus argenteus	n	P	25.0%	13.970	20.6%	15 3%	0.0 %	0.3%	0.7%	0.3%	3.3%
35	Achillea lanulosa	n	Р	41./%	27.070	10.0%	28 7%	0.3%	1.6%		0.7%	3.0%
35	Medicago sativa	•	P	20.69	16 794	36 194	11 3%	†- 	0.3%		0.3%	2.7%
35	Hippochaete laevigata	1n	In I	30.070	8 204	22.1%	2 794	1.7%	0.3%	0.7%	0.79	2.0%
35	Poe pretensis	10	12	16.74	33.20	2 894	8 7%	0.3%	† <u> </u>	1	1	1.9%
35	Trifolium pratense	-	12	22.28	13.0%	11 1%	10.0%	1	1.0%	1	Γ.	1.7%
35	Aster faicatus	10	12	27.27	16.7%	8 394	8.0%	1	t	1.0%		1.6%
35	Dectylis giomerata	Ē	اگ	11 1%	25.04	11 1%	3.3%	1	1	1.		1.6%
35	Taraxacum omcianaie	Ē	12			2.8%	8.0%	0.3%	0.3%	0.3%	0.79	6 0.9%
35	Symphoncarpos occidentalis	10	12	13.0%	8.39	5.6%	3.3%	5			0.39	0.8%
35	Agrostis gigaritea	F	IP.	11 19		8.3%	7.3%					0.7%
35	Plantago lanceolata	1ª	HP-	<u> </u>	<u>+</u>		3.3%	0.3%	1.09	0.39	0.39	6 0.6%
35	Andropogon gerardi	1	뽆	8.3%	8.39	2.8%	2.09	0.7%				0.6%
35	Solidago sparsmora	臣	12	2.8%	8.39		0.79	5		T	0.79	6 0.6%
35	Saponana omcianans	E	뽄			13.9%						0.5%
35	Packena pseudoaureas	H u	The second	5.6%	5.69	5.6%	1.39	5				0.5%
35	Melliotus alba		1		2.89	5.6%	5	0.3%				0.4%
30	Poe compresse	Ť	튭		2.89	8.3%	0.79	6				0.4%
130	Asciepias specias		1m	5.6%	5.69	2.8%	2.09	6				0.4%
132	Disentibelium oficiosanthes	Ť	lm	1	1	8.3%	6					0.3%
1 35	Phleum pratense	le	D	13.9%	2.89	6	3.39	6				0.3%
1 75	Ambrosia osilostachva	In	Þ			1	0.79	6 1.09	0.39	6	+	0.3%
35	Aster laevis	In	1p			8.39	6			1	-	0.37
1 3	Allysum minus	e	1 m		8.39	6			1	<u> </u>	+	KCO
3	Glycynthiza lepidota	In	P				0.79	6 0.39	6		1.0	0.370
39	Carduus nuttans		m	2.89	6	2.89	6 2.09	6	+			0.1%
35	Agropyron smithii	Īn	ιP					0.39	6		╺╋┈──	
35	Cichorium intybus	e	P				+	0.39	<u></u>	+		0.1%
35	Verbascum thapsus	e) IT	1 8.39	6		2.0	<u>× </u>				0.0%
3	Cirsium undulatum	Ī	1	1			0.7	<u></u>				0.0%
3	Ranunculus macounii	Ir	ı p	2.89	6	<u> </u>	1 0.7	8	-	x 02	× 07	96 0.0%
3	Bare Ground	Ι	L					4.69	2.3	70 U.J AL 25 A	× 0./	S 0.0%
3	5 Litter		L.	1				23.1	2 3/.1	N 33.4	× 30.5 % ∆ 4	% 11 2%
3	5 Dactyfis glomerata		P	83.39	6 97.2	b 75.0°	<u>20.00 x</u>	70 12.0 N 60	N 12.1	A 5.5	x 7 .0	% 76%
3	6 Poe pratensis		<u> </u> P	22.29	52.8	b 58.3	a 45.3	2.0 0.5		2.2 10	s 5	% 7.5%
3	6 Rosa arkansana	1		50.0	6 75.0	b 69.4	70 41.3 N 2000	20.0	N 9.0	N 0.0 8 9 8	8 11 0	8 7.2%
3	5 Andropogon gerardii	4	<u>n p</u>	58.3	b 25.0	70 44.4°	20 39.3	<u>x 3.3</u> x 3.5	A 3.0	8 26	8 5	6.3%
3	6 Juncus arcticus	4	n p	58.3	<u>a 58.3</u>			20 J.O	<u>« « "</u>	A 2	23 28	% 4.5%
3	6 Agrostis gigentee	4	• F	19.4	25.0°	201 33.3	<u>x 32./</u>	N 3.3 N 4 A	% 1 0	a 37	96 8	3.9%
3	6 Panicum virgatum	-	<u>n † F</u>	$\frac{33.3}{2}$	30.6	70 21.0 W EE C	N 22.U	a 1.0	x 1 7	8 03	96 10	3.1%
3	6 Phieum pratense	4	0 F	69.4		0.00 0	A 10.7	× 3.0	a i	96 10	96 1	3% 3.1%
3	6 Lotus tenuis	-	<u>• </u>	27.8	70 41./	70 <u>21.0</u> 02 44 4	N 20.1	N 76	% ''	8	%	2.8%
3	6 Carex stipata	-+	<u>n </u> f	2.8		A 264	a 29.0	96 1 3	% 13	3% 1.0	1	3% 2.7%
13	6 Achilles Ianulosa	4	nμ		70 44.4	AL 214	A 15 7	96 07	\$ 0	3% 0	% 0	3% 2.7%
13	6 Hippochaete laevigata	-	<u>n </u> 1	m 41./	A 44.4	AL 264	<u></u>	96 33	96	10	96 1.	0% 2.3%
3	6 Poe compresse	4	•	2 2.3	70 4/2 a	<u>x 30.1</u>	20.0	10 0.0 10 1 F	96 1	36 3	3% 4	0% 2.39
13	6 Apocynum sibericum	4	eh	<u>p 11.1</u>	7	~	- <u>- 22.1</u>	1.0	<u> </u>	<u> </u>	5	9% 1.89
13	6 Carex sp.	4	비	₽┫────	2.0	70) 64		10 3.5	96 1 1	3% 0:	3% 1	7% 1.89
تا ا	6 Festuca pretensis	4	eψ		20.0	94 44 7	2.	796 01	94 1	3% 0	3%	1.79
Ľ	6 Agropyron repens	4	븬	19.4	70 21.0	A 41./	<u>x 0.1</u> x 12/	196 0 7	96 1	396 2	3% 1.	3% 1.79
13	6 Agropyron smithii	4	맥		70 0.3 a	94 40 4	N 10.	7% 10	196 1	396 1	0% 1	7% 1.79
L	6 Sorghastrum avenaceum	4	<u>n i</u>	<u>P 28</u>	70 0.2	13.4	21	796 1 6	x 1	6% 2	6% 1	3% 1.69
Ŀ	6 Cerex nebrascensis	4		- 120	× 22.2	264	S 0	396 1 1	396 0	3%	0	7% 1.59
	Eline mitter mentil	- 1	n II	oi 135		JO.	- M I JA	⊿#1 # i-a	- NI V.	1		

Арр	andix 3 (Cont.)				N	tents Dec		T	* (COMPE			
			_	0.004	% or Qua	huh 06	AINOA	hine	51.100	a961/	Wa95	Aug96	IMP
Plot	Species			Part94	JUIVED	8 394	A154	0000	6		3.3%	1.3%	1.1%
36	Spartina pectinata	n	Ρ	0.20	10.4%	25.04	10.09	0.3		7%			1.1%
36	Taraxacum officianale	e	P	0.370	5.00	12 04	12.09	0.3	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	0%		1.0%	1.0%
36	Packeria pseudoaureas	n	P	25.00	22.0%	5.5%	24 79		ĩt	<u> </u>			1.0%
36	Piantago lanceolata	•	Ρ.	25.0%	0.204	11 1 1	19.79	03	<u>~</u>	†	0.3%	0.7%	0.9%
36	Cirsium floodmanii	n	P	8.3%	42.0%	9.2%	10.7	0.0	ĩ t a	7%	1.3%		0.9%
36	Bromus inemis	•	P	5.0%	13.378	2.0%	14.09		<u> </u>		0.3%		0.9%
36	Trifolium pratense	•	Ρ.	27.8%	27.0%	2.070	14.07	0.2	2 				0.8%
36	Dicanthelium oligosanthes	n	m	5.6%	22.2%	25.0%	3.37	0.3	~		0.3%		0.8%
36	Schizachyrium scoparium	חן	P	66.7%	10.00	2.07	45.57	0.2		396	0.7%		0.8%
36	Ambrosia psilostachya	n	Ρ.	16.7%	13.9%	5.6%	16.07	0.3	쮜->	200	0.7%		0.8%
36	Aster faicatus	n	P	8.3%	11.1%	19.4%	10.09	<u></u>	+	202	0.7 %		0.7%
36	Carex praegracilis	n	P.				2.09	<u> </u>					0.7%
36	Convolvulus arvensis	e	Ρ		19.4%	19.4%	6.09	6				0.794	0.7%
36	Potentilla gracilis	n	P		8.3%	19.4%	1.39	6 0.7	<u>*</u>			0.7%	0.7%
36	Cerex lanuainosa	In	P				15.39	6		.3%			0.0%
36	Fleocharis elliptica	In	u			8.3%	6.0	6 1.6	%			0.3%	0.070
36	Menthe alvensis	In	D				10.79	6).3%	1.0%		0.5%
30	Adamisia dranunculus	In	D		16.7%		7.3	6			0.3%		0.4%
30	Circlem anance	-	i.	1	1		15.39	6			0.3%	0.3%	0.4%
30	Comendin umbellete	Ť	te.	16.7%	2.8%	2.8%	18.7	6				L	0.4%
30		Ē	后	2.8%	1		4.0	6 0.3	%		0.3%	0.7%	0.3%
30		╬	慌	5 694	<u>+</u>		14.7	6 03	%				0.3%
36	Sondago sparsmora	#	뿓	284	11 1%		6.0	6					0.3%
36	Lepidium campesire	녆	1	2.07	13.004	t	87	<u>s</u> l				Г	0.3%
36	Medicago lupulina	10	100	40.47	13.370	2 2 2 2	1 87	21		0.3%	· · · · ·	T	0.3%
36	Unk. Forb -842	14	14	19.47	<u>'</u>	2.07	+ •		96	0.3%		0.79	0.3%
36	Unk. Forb -946	<u>u</u>	<u>u</u>	_	<u> </u>	 -	1 40	× · · · ·	~	0.0 10		1.09	0.29
36	Carex brevior	n	IP.	L			4.0						0.29
36	Bromus japonicus	e	m		2.8%	2.8%	2.7	<u>» v</u> ~	<u>~</u>			<u> </u>	0.29
36	Sporobolus heterolepis	п	ĪΡ	<u> </u>		13.99	6					 	1 0.29
36	Toxicodendron rydbergii	n	P		<u> </u>	13.99	6		_	<u> </u>		0.20	0.27
36	Pastinacea sativa	e	P				6.0	<u>%</u>			 	0.37	
36	Ambrosia artemesifolia		m			13.99	6				L		1 027
1 20	A ster lagvis	In	D			8.39	6 6.0	%			L	1	0.29
	Chevratiza legidota	In	Б	1	T						0.79	0.39	6 0.27
30		1n	15	11.19			2.7	% 0.	3%	_		0.39	6 0.29
30		1	15		8.3%	2.89	6						0.29
30			Th.	<u>+</u>	8.39	2.89	6 0.7	%					0.29
36	Acetosella vulgaris		15	+	+			0.	3%	0.3%			0.29
36	Rumex chispus	+	12	╉╍───	13.99				_			T	0.29
36	Unk. Ford -928	<u>+</u>	12	+			80	<u>«</u>	-+-		1		0.19
36	Scirpus acutus	-+-	1P	+		+	5 3	x o	396			1	0.11
36	Juncus longistylis	-1"	ΨP	┿────		5 69	<u></u>	~			1	0.3	6 0.19
36	Boutelous gracilis	ᄪ	ĻΡ			5.07	<u> </u>				1	0.3	6 0.19
36	Muhlenbergia asperifolia	10	ΨP		-			~				+	01
36	Sporobolus asper	In	ĻΡ	+	2.89	2.8		70			+	+	1 01
36	Artemisia lucioviciana	_ <u> </u> 1	IΡ	·	+	, 	+ 4.0	201-					0.10
36	Lactuca serriola		n	<u></u>	2.89	<u></u>	+ 0.7	<u> </u>	_		+		
36	Tragopogon dubius			n	5.69	b	2.7	70	-+-		<u> </u>		
3	Symphonicarpos occidentalis	I	۱p		5.69	6 2.8	*				+		-+
34	Medicago sativa) P			2.8	%				0.39	<u>»</u>	
13	Lycopus americanus	1	1 F				11	3% 0	.3%		_	- 	
12	Smilacena stellata	Ī		33.3	%		8.	2%			- 	-+	
H	Unk Forb -754	Ti	π	2.89	6		4.	0%					0.1
H ₂	Link Forb 970	t	, i	<u></u>		T						0.7	% 0.1
1	Amorphe Gene	-ti		2.8	*	1	0.	7%					0.0
		-1	, t	n		1	2.	0%					0.0
13		÷	÷.		+	+	0	7%			T	T	0.0
3	I monum nyonbum	-ť	÷	<u></u>	+		-+ -	3%			1	T	0.0
13	picolum panculatum	-ť	"	" 	+		-+	1	.6%	1.09	6		0.0
13	Bare Ground	+	+					-1-	496	47.29	6 30.9	% 20.8	% 0.0
3	6 Litter	-+	+		N 070	x 1000		nec 10	QQL	21 0	x 285	96 14	96 21 5
3	7 Dactylis glomerata	_+	비	<u>p /5.0</u>	<u>70 9/2</u>			70/ 24		14 44	K 27	a 2	96 14 4
3	7 Bromus inermis	_	• 1	p <u> </u>	72.2°	70 <u>63.9</u>	06.		10	7.04		<u> </u>	
3	7 Trifolium pratense		elj	p <u>50.0</u>	% <u>97.2</u>	% 91.7	* 53	370	2.170	1.0	8.6	30 3.0	201 7
۲ă	7 Poe pratensis		۰Ti	p 47.2	% 66.7	52.8	% 48	7%	.8%	6.7	<u>52</u>	3.0	
1ă	7 Dicanthelium oligosanthes		n	m 61.1	% 55.6	\$ 58.3	% 38	7% 1	.8%	1.9	<u>» 1.2</u>	76 4.	78 4.
F	7 Plantago lanceolata		•	p 16.7	% 58.3	% 61.1	% 52	0%	5.8%	1.6	8 12	% 0.	5% 4.
F	7 Rose arkansana	-1	n İ	p 13.9	% 33.3	% 38.9	9% 18	0%	2.1%	22	% 5.8	% 1.	3.7
H ²	7 Acotecila velcarie	-1	•	0 44.4	% 52.8	% 50.0	2€	0%	2.1%	1.0	% 2.6	5%	3.
님		-	, †	5 5 6	% 19.4	% 194	1% 1	3%	2.4%	22	% 2.3	3% 4.	3% 3.
L ³		-	÷	22.2	96 69 2	8 22 2	296 10	3%	0.3%	0.6	% 58	3%	3.
11	7 LLAMYACUM OMCIENER		9 I	M 1 664	הרטיט ויה							ويتحدث وبالتفس	

Арр	endix 3 (Cont.)		1		8 4 0 m	drate Pre	sent	-T		% Cover	,		
	1	- T	-	Part94	July95	Julv96	Alla	4 J	lune95	June96	Aug95	Aug96	IMP
Plot	Species			50.0%	5.6%	88.9%	39.	3%	1.8%	1.0%		0.7%	2.9%
37	Phieum pratense		Ē	50.0%	22.2%	38.9%	39.	.3%	4.6%	1.0%	1.2%		2.9%
3/1		n	Þ		2.8%				0.6%	1.0%		5.6%	1.8%
3/	Hippochaste laevigata	n	E	25.0%	25.0%	27.8%	35.	.3%	0.3%	0.3%			1./%
37	Agrostis gigantea	e	Ρ			41.79	10.	.7%	1.8%	1.3%			1.4%
37	Tritolium hybribum	•	U	27.8%		22.29	35.	3%	0.3%	1.0%		0.3%	1.2%
37	Potentilla gracilis	п	δ	2.8%	30.6%	19.49		.7%	0.3%	1.0%		1 3%	1.0%
37	Festuca pratensis	•	P.		11.170	11.19	<u>+</u>	204	0.6%	1.0 %	0.3%	0.3%	0.9%
37	Carex sp.	u	P	22.2%	16./%	10./7	1 20	.370	0.0 %	0.6%			0.8%
37	Carex brevior	<u>n</u>	P	11.170	<u> </u>	10.72	20	0%	1.5%	0.010	1.2%	1.0%	0.8%
37	Spartina pectinata		P	9.3%	13.9%	25.09		7%	0.3%				0.8%
37	Achillea lanulosa	<u>n</u>	P	16 7%	5.6%	8.39	12	7%	0.3%		0.9%		0.7%
37	Agropyron repens		2	10.7 %	0.0 %	25.09	5		0.6%		0.6%	0.3%	0.7%
37	Panicum Virgatum	6	m	25.0%	8.3%		15	.3%				0.3%	0.5%
31		n	D		8.3%				0.3%	0.6%		0.3%	0.4%
31	Aster lacatos	n	Þ		5.6%	8.39	6 1	.3%			0.3%	1	0.3%
37	Apocynum sibericum		P				0).7%		0.3%	1.4%		0.3%
37	Cichorium intybus	e	P			2.89	6 0).7%	0.6%		0.6%	0.20	0.3%
37	Lotus tenuis	•	Р		2.8%	8.3	6 1	.3%	0.3%	<u> </u>	0.00	1 0.37	0.3%
37	Oxalis dillenii	n	m	13.9%		11.19	6	1.0%			1 0.0%	<u>'</u>	0.37
37	Carex nebrascensis	n	P	2.8%	·	2.8	片 역	J.7%		0.39	0.97	<u>' </u>	0.2%
37	Carex praegracilis	n	P			5.5		2.0%		0.0 *	<u>+</u>	+	0.2%
37	Ambrosia artemesifolia	e	m		<u></u>		+ 1	4.0%	<u> </u>			+	0.2%
37	Lepidium campestre	•	m			5.0	21-	4.0 70		├ ───		1	0.2%
37	Cerastium nuttans	<u>n</u>	m	0.00		1.1		2 7%			0.39	st	0.2%
37	Medicago sativa	•	<u>₽</u>	2.89	╬────	+	+	2.1 70	0.6%	0.39		·	0.2%
37	Erodium cicutarium	•	m		+	83	.		0.6%			1	0.2%
37	Prunella vulgaris	n	₽ <u></u>	<u> </u>		- 0.0	~ -			<u> </u>	1.29	6	0.2%
37	Polygonum aviculare	10	m	+		5.6	<u>s</u> †			0.39	6		0.1%
37	Carex stipete	10	18	+			+ :	2.7%		0.39			0.1%
3/	Elecchans empica	10	15	2.89	6			6.0%					0.1%
37	Schizechvrium scoperium	h	Б			1		4.7%					0.1%
1	Setaria glauca	le	Ťm								ļ	0.39	6 0.1%
1 37	Vulnia octoflora	In	m			8.3	%					_	0.1%
37	Ambrosia trifida	n	P							<u> </u>	0.39	<u> </u>	0.170
37	Ambrosia psilostachya	n	P						0.39	<u> </u>	+		0.1%
37	Cirsium arvense		P	8.39	6	<u> </u>		3.3%	l		+	- 03	× 01%
37	Packeria pseudoaureas	n	P					4 794		┼───	+		0.1%
37	Barberea orthoceras	ļn	U	5.6%	6	+	-+-	4.17	<u>'</u>	+	+		0.1%
37	Lepidium densifiorum	10	n	<u>'</u>	+	1 07	<u>~</u>	4.7 2		+		+-	0.1%
3	lins missounensis		ΗP	<u> </u>			~		+	0.39	x T		0.1%
3	Sisynnchium montanum	벁	HP.	<u></u>			+-	2.0%	1	0.3	*		0.1%
3	Uxybapnus nyctagineus	t.	12	<u>+</u>		+	+		1	1		0.3	% 0.1%
3		╡	1		+	2.8	%		1				0.0%
3	/ Munienbergia montana	+		<u>.</u>		+	-	2.0%	5				0.0%
L,	7 Cardinis nuttans	t		n	+-			2.0%	6				0.0%
1	7 Frigeron flagellaris	T						0.7%	6				0.0%
F	7 Tracopogon dubius	t		n			T	0.79	6	_ _			0.0%
13	7 Cynoglossum officinale		e r	n				1.39	6	_			0.0%
13	7 Thiaspi arvense		9 1	n				0.79	6	<u> </u>			
3	7 Chenopodium album	T	0 1	n				1.39	<u>6</u> [_	
3	7 Rumex crispus	I	•	<u>ه</u>			_	2.09	<u>6</u>				0.0%
3	7 Verbascum thapsus	1	e I	m			-+-	1.39					0.0%
3	7 Unk. Forb -844	I	uli	<u> </u>	_			0.79	<u>></u>	al 44 4	a 1	SK 64	SK 0.0%
3	7 Bare Ground				_				+ .0	20 11.1	70 4.0 IQL 4.9 1	96 28	S% 0.0%
3	7 Litter	4					, ,	60.04	0.0 x 47 0			796 7	19 11.4%
3	8 Eleccharis elliptica	_	n ļi	u 66.7	72.2	70 06. a		21 29	R 1/.9	94 8 4	% 4	79 13	2% 9.7%
3	8 Festuce pratensis	4	<u>e</u>	p 13.9	70 44.4	20 11.	302	21.37	× 10./	x 12 2	9 2	7% 5	4% 6.9%
Ľ	8 Poe pretensis	+	<u>e </u>	P 41./	70 10./	20 33. 19 37		33 30	× 70	6	3% 3.	0% 4	1% 6.6%
Ľ	8 Carex neorascensis	4	<u>n </u>	<u>P _ 2/.8</u>	970 41./	8	~~ +	6.0	<u>x</u> l	<u> </u>	6	0% 13.	2% 5.5%
Ŀ		+		A7 2	96 30 6	96 16	7%	64.04	% 1.3	96 1.0	5% 1.	0% 8.	1% 4.6%
Ŀ	Agrosus gigenies	-	븱	583	38 38 9	8 55	6%	40.0	% 2.2	% 1.	3% 1.	7% 2.	0% 4.3%
Ē		4	#	A7	96 52 5	8	3%	48.7	% 4.7	% 4.	3%	1.	4% 4.1%
H	No remove the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	+	,	51		<u> </u>		26.7	% 12.9	1%	2.	7%	3.7%
H	B Persicaria maculata			m 25.0	96 27.1	3% 52	.8%	34.7	% 5.7	7% 1.	0%		3.3%

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App			-		% of Quad	irats Pres	ent		% Cover			
Diat	Species			Part94	Julv95	July96	Ali94	June95	June96	Aug95	Aug96	IMP
39	Trifolium hybribum	е	u	58.3%	33.3%	50.0%	50.0%	2.5%	0.3%		0.3%	3.0%
38	Agropyron repens	e	Р	55.6%	5.6%	38.9%	28.7%	2.2%	2.6%	1.0%	1.0%	2.9%
38	Cichorium intybus	8	Ρ	38.9%	36.1%	22.2%	29.3%	2.2%	1.3%	0.7%	U./70	2.17
38	Bromus japonicus	e	m	22.2%	25.0%	61.1%	6.7%	0.6%	3.0%			2.270
38	Sporobolus airoides	n	Ρ	8.3%	2.8%	16.7%	4.7%		7.2%	4.30	4 794	1.8%
38	Andropogon gerardii	n	P		2.8%			1.3%	1.00	1.370	4./ 70	1.070
38	Bromus tectorum	e	m	19.4%	25.0%	25.0%	8.7%	3.1%	1.0%			1.5%
38	Poa compressa	e	P	19.4%	38.9%	2.8%	19.3%	1.6%	0.7%	0.7%	0.3%	1.5%
38	Bouteloua gracilis	n	P	25.0%	16.7%	25.0%	8.0%		U./%	0.770	0.5 %	1.3%
38	Lepidium campestre	•	m	22.2%	22.2%	25.0%	11.3%	1.6%	0.20			1.0%
38	Juncus longistyfis	n	Ρ	27.8%	25.0%	5.6%	21.3%	ļ	0.37	1.0%	1.0%	1.0%
38	Panicum virgatum	n	P	2.8%	2.8%	2.8%	9.3%	0.50	0.3%	1.0 %	1.0 %	1.0%
38	Cirsium arvense	0	Ρ				17.3%	2.5%	1.0%			0.9%
38	Hordeum jubatum	n	u	38.9%	5.6%		24.170	0.070	1.070	1		0.9%
38	Ambrosia artemesifolia	e	m	13.9%	25.0%	8.3%	12.7%	0.6%	0.7%	1 3%	0.3%	0.9%
38	Convolvulus arvensis	0	P				4.0%	1 294	0.7%	~~~~	0.7%	0.9%
38	Trifolium pratense	•	P		25.0%		0.7%	0.396	0.2 %	0.3%		0.8%
38	Agropyron smithii	n	P	2.8%	27.8%		2.170	0.370		0.3%		0.8%
38	Trifolium repens	e	IP_	11.1%	16.7%	25.00	11 204	1	 	<u> </u>		0.7%
38	Unk. Forb -847	u	u	2.8%	<u> </u>	10 414	0,000	0.38	0.3%	1	0.3%	0.6%
38	Carex heliophylla	In	P	 	 	20 69	 	+ 0.0 %	+	1		0.6%
38	Cyperus aristatus	10	m	E 000	<u> </u>	10.0%	8.0%	<u>t</u>	0.3%			0.6%
38	Talinum parvifiorum	<u>In</u>	<u>u</u>	2.0%	44 400	0.10	2.0%	 	0.7%			0.5%
38	Dectylis giomerata	0	IP.	<u> </u>	11.170	22.2%	<u> </u>	0.3%	0.3%	1		0.5%
38	Taraxacum officianale	10	12	E 64	+		4 7%	1	0.3%		1.0%	0.4%
38	Carex praegracilis	In	₽.	5.07	<u>'</u>	10.4%		1	+	1		0.4%
38	Juncus gerardii	e	₽.	0.20	E 694	9.394	6.0%	0.39		1		0.4%
38	Hippochaete laevigata	<u> n</u>	m	0.37	16 704	0.370	0.0 2	-	1	+	0.39	0.4%
38	Polygonum aviculare	9	m	2.07	10.770	8 394	3 39		<u> </u>		0.7%	0.4%
38	Rumex crispus	10	P.	2.07	5.6%	8 3%	0.0 %	+		1		0.3%
38	Alopecurus aequalis	In	P		2.8%	8.3%	1	0.39	5			0.3%
38	Capsella bursa-pastoris	1ª			8 396	2.8%	1	1	0.39	5		0.3%
38	Sysimbrum arossimum	ا		8 39		13.9%	4.79	5				0.3%
38		붆	10	- 0.0 /	8.3%	1		1	1	0.3%		0.3%
38	Potentila nippiana	+:	12	+	+	<u> </u>	1	1		0.7%		0.3%
138	Unk. Forb -920		15	+		8.3%		1				0.2%
30	Buchice dacty oldes	╡				1	5.39	6 0.39	6 0.39	6		0.2%
1-30	Ascrepies speciose	1	Im	5.69	5.6%		4.79	6				0.2%
1 30	Thermootis divaricarda			2.89	5.6%	2.8%	2.79	6				0.2%
1 30	On inelle vulnaris				1	1		0.39	6 0.39	6		0.2%
130	Onderbus hirsuta	1		5.69	6 5.6%	2.8%	6 2.79	6				0.2%
1 30	Oxybenhus linearis	Tr	To	1		T	2.09	6		0.39	<u>ها</u>	0.2%
1-20	Plantago lanceolata	1	n p	13.99	6 5.6%	6	7.39	6				0.2%
130	Verbena hastata	Tr	D	1			8.79	%	ŀ	_ _		0.2%
138	Unk. Forb -964	ti	ilü	1		11.19	6			<u> </u>	4	0.2%
12	Carex scoparia	1	P				2.79	×	_		_	0.1%
3	Carex brevior	1	ιp				4.09	<u>× </u>	1 0.3	<u>></u>	+	
3	Eleocharis macrostachya	1	P		2.89	6					, 	- 0.170
3	Eragrostis sp. (annual)	1	9 1	n		1				0.39	<u> </u>	
3	Poa palustris	T	۱p							0.39	막	0.170
3	Sorghastrum avenaceum	1		5.6	*	1	3.3	*	-+			- 0.170
3	B Lactuca serriola	Ī	9 1	n		1	0.7	*		- 0.39	<u></u>	0.170
3	B Packeria pseudoaureas	Ī	n			2.89	»		-+		+	0.170
3	B Camelina microcarpa	Ţ) [n	5.69	6					+	- <u>+</u>
3	8 Thlaspi arvense		0 1	<u>n </u>			+	~ 0.3	<u>~</u>			0.1%
3	8 Medicago lupulina	Ī	e [n	_		2.7	20				
3	8 Melilotus alba		• II	n			4.0	×	-+			0.170
3	8 Lycopus americanus	\downarrow	<u>n </u> 1	2					_{		<u>e U.1</u>	0.1%
3	8 Oenothera strigosa		n ļi	<u>n </u>				+		- 0.3	≈—	0.18
3	8 Centunculus minimus		<u>n l</u> i	m					70		1 07	GL 0.1%
3	8 Potentilla gracilis		<u>n </u>	<u> </u>	_							0.1%
3	8 Veronica peregnina		•	m	2.8	70	+				-+	0.1%
3	8 Unk. Forb -754		<u>u l</u> i	<u>u </u>			-1-2.7	2	_ 			0.170
3	8 Opuntia macromiza	_	nψ	<u>e</u>			1				-+	0.070
3	8 Equisetum arvense		n l	<u>m</u>				<u>~</u>	-+			0.0%
3	8 Glycymhize lepidota		<u>n </u>	₽┥			-1	770	<u> </u>		-+	0.070
3	8 Epilobium glandulosum		n į	<u> </u>				20				0.070
	8 Acetosella vulgaris		e	Pİ	1	1	2.0	770				1 0.0%

App	endix 3 (Conc.)		Г	A	% of Qua	drats Pre	sen	t		% Cover				
	Cancilla	Т	-†	Part94	July95	Juty96	AIK	94 J	lune95	June96	Aug95	Aug9	<u> 11 86</u>	
<u>1004</u>	Species	ati	٥Ť	5.6%				1.3%				∔		0.0%
38	Hose arkanoarka	ΰŤ	٥Ť					2.0%				╞───	-+-	0.0%
38	Unix. Polo 445	ΞŤ	٥Ť					1.3%						0.0%
38	Unk. Porb 4040	Ŧ	-+						3.8%	6.9%	5.3%	<u>, 2.</u>	7%	0.0%
38	Bare Ground	┽	+				1	_	7.9%	28.3%	59.0%	<u>, 30</u>	2%	0.0%
38	Litter	_ +	_+	80 694	13 9%	63.99	4	4.7%	27.4%	22.4%	27.9%	. 4.	7% :	23.7%
39	Medicago sativa	믝	<u></u>	44 70	50 A%	61.19	17	2.0%	3.8%	10,9%	11.19	13.	0%	18.0%
39	Agropyron cristatum	읙	P _	41./%	03.470 50.20V	66 79	<u>1</u>	4.0%	12.4%	5.6%	8.59	5 7.	6%	14.5%
39	Bromus inermis	<u>•</u>	<u>₽</u>		30.370	50.09	1 -		738	3 3%	7.29	1 2	3%	12.2%
39	Convolvulus arvensis	•	P	88.9%	58.3%	50.07	4 5	0.070		4.6%	4 39	1-7	38	7.0%
39	Aaropyron smithii	n	P	88.9%	25.0%	27.89	16	4./%	2.37	4.07	4.5 /	1-7	78	3.0%
39	Melilotus officinalis	•	m	11.1%	58.3%	2.89	<u>5 2</u>	4.0%		1./7	↓	+	<u> </u>	244
30	Bromus ianonicus		m	16.7%	11.1%		4	0.0%	8.3%	0.3%	<u> </u>	┿━━	<u> </u>	3.170
39	Albaum minus	e	m		11.1%	5.69	<u>6 3</u>	2.7%	5.7%		L	+	-+	2.17
39	Anysom minus		m		2.8%		13	0.0%	6.1%	1.3%				2.4%
39	Bromus tectorum	Ľ١	-	2.8%	5.6%	2.89	6 2	4.0%	1.9%	1.0%	1.69	<u>6 0</u> .	.7%	2.3%
39	Aster taicatus		<u>×</u>				11	3.3%	0.6%	3.3%	1.39	<u>6 0.</u>	.3%	1.7%
39	Poa pratensis	-	2	44 494	<u> </u>	<u> </u>	12	9.3%	2.9%	1.3%	J			1.7%
39	Podospermum lacinatum	•	m	11.170			╧	4 0%			0.39	6 2	.0%	1.0%
39	Melilotus alba	<u>e</u>	m		<u>+</u>	+	+-	4 001	0.6%	<u> </u>	† <u> </u>	11	.7%	0.9%
39	Poa compressa	Ð	P	1.2			+-		0.0 %		<u> </u>	-+		0.7%
39	Triticum aestivum	e	m	16.7%	11.1%	·	+	0.1%	0.000	├ ───	+	+	+	0.6%
30	Camelina microcarpa	e	m		8.3%	·	┺	6./%	0.6%	 	+		302	0.00
1 20	Rosa arkansana	n	P				┶			 	+ 0.3	러그	<u>,,,,,</u>	0.070
133	Tracococo dubius	e	m	22.2%			1	16.7%			<u></u>	_	+	0.5%
13	Temvecumofficienele	Ē	D		1	2.8	8	6.0%	0.3%		· 	<u> </u>		0.4%
39	Taraxacum onclamare	L.			8.39		Т	1.3%						0.4%
39	UNK. POID -049	Ē	۲		†	1	+	4.0%		0.3%	6	0	1.3%	0.3%
39	Carex brevior	In .	<u>P</u> _	11 10	+		+	9.3%	0.3%		T			0.3%
39	Thlaspi arvense	le	<u>Im</u>	<u> </u>	<u>'</u>	┼┷╼	+-	4 0%	0.3%	1	+		-1	0.2%
39	Dectyfis glomerata	•	P.		<u> </u>		-+-	0.7%	0.0 %		+	+		0.2%
39	Rumex crispus	e	Ρ			2.0	쒸	0.770		0.29	d	-+		0.1%
39	Hordeum jubatum	n	U		1		┶		<u> </u>	0.37	1			0.1%
1 30	Ambrosia trificia	n	P			1	_		L		10.3	~ ~		0.1%
1 20	A stor leavis	În	Þ		T						+	4-4	الحرور ا	0.17
130		1.	īm	8.3%	5		T	2.0%			_			0.17
132	Sinapis arvensis	t.	Īm	1			Т			T).3%	0.1%
39	Kocrila iranica	t	1	<u>+</u>	+	+	\top	2.7%						0.1%
39	Acetosella vulgaris	t.	뽄	╂────			╋		<u> </u>	1	0.3	%		0.1%
39	Unk. Forb -862	벁	₽.		+		-+-		<u> </u>	0.39	6	-		0.1%
39	Unk. Forb -959	뿌	벁			+	-+-	1 3%						0.0%
39	Avena fatua	le	m				-+-	4.20	<u>↓ </u>	+				0.0%
39	Ambrosia psilostachya	In	P	<u> </u>			-+-	1.370		+	+	-+-		0.0%
39	Cirsium arvense	e	P				ᆂ	0.7%	4	<u> </u>		+		0.0%
30	Lactuca semiola	10	1				_	1.3%	<u>'</u>			-+	···	0.0%
1 20	Descurainia sonhia	Te	m	2.89	6			0.7%	<u></u>		_			0.070
1	L epictum campestra	Te	1m	1	T			0.7%	<u></u>					0.0%
13	Charantermetrim	ta	1	1	-		Т	0.7%	J					0.0%
13		+⁼	+‴	+	+	1	-		7.09	6 13.2	% 6.6	5% 1	5.9%	0.0%
3		+	+	+	+	-	-+		111.89	6 30.0	% 30.2	2% 4	8.5%	0.0%
<u>⊢3</u>		╋	+-		6 04 4	¥ 07 1	w t	75.3%	41.69	6 37.0	% 54	2% 3	1.0%	46.7%
4	Medicago sativa	뿌	-Tb	+	x 100 0	100	÷π	74 09	21 69	6 13.0	% 6	0%	6.3%	22.1%
4	Bromus inermis	ᆤ	1 2	31.2			쓻	60.20	2 2 50	6 10	a 0	7%	2.3%	9.2%
4	Convolvulus arvensis	1.	<u>'</u> 12	50.0	<u>p 44.4</u>	70 32.0	쓹	22.37	1 2 30	× 85	x 7	0%	3.7%	7.3%
4	Dactyfis glomerata	e	·ΙP	33.39	<u>a 5.6</u>	70 41.	/주나	32.17	3.27			<u>a</u> t-	6 7%	5.7%
4	Agropyron cristatum) p	<u></u>				16.09		위 **	<u></u>		0.1 10	1 6%
4	Agropyron smithii	Īr	1 P				$ \square$	8.79	<u>6 4.1</u>	<u> 22</u>	<u>~</u>	<u> </u>	4.00	0.76
	Ambrosia artemesifolia	1	a In	n 8.3	% 5 .6	%		2.09	6				1.0%	1
H	Rumer crispus	ti	ale	5.6	% 2.8	% 8.	3%	3.39	6		0.	3%		1 0.7%
H		ť	÷۴	1 11 1	% 28	96		6.79	6 1.0	%				0.6%
Ľ		÷	#	n 56	% 56	%		5.39	6 0.3	%				0.6%
Ľ	u camelina microcarpa	-f	1	<u></u>			+	7 39	6 0.6	%	0.	.3%	0.3%	0.6%
14	0 Rose arkansana	-#	<u>∎</u> ‡₽	<u>'</u>		-+		2 20	2 0.2	жt——	-1	-+	1.09	0.5%
4	0 Aster faicatus	-#	<u>n 1</u>	<u>'</u>			+	- 3.3	<u> </u>	~+		-+-		0.4%
4	O Avena fatua	!	<u>e r</u>	<u>n</u>	<u></u>	- 10		2.0						04%
4	0 Poe compresse	J	0 1	2				3.3	<u>p 1.0</u>		2701	╼╼╋╸		1 0.40
	0 Poa pratensis	- I-	e ir	8.3	%			6.0	<u>% 1.0</u>	/%				+ 0.97
E	O Triticum enstivum	Ŧ	e li	m 13.9	% 2.8	3% 2	.8%	3.3	*					1.4%
H	O Terevecum officienale	Ť	ati	<u></u>	2.8	3%	_	7.3	%					0.4%
H		-+	<u></u> +	<u></u>	<u></u>	- 1 2	.8%	3.3	% 0.3	1%			_	0.3%
Ľ		-+	÷	<u></u>		-+		13	% 0.6	196		T		0.2%
Ľ	U Agropyron repens	÷	쀠	<u>Ľ</u> †				1 27	<u>s</u> <u> </u>	96		-+		0.2%
- 14	O Allysum minus	4	박	<u></u>		_		2.2	<u> </u>		-+-			0.29
	Cl Lenidium cemnestre		eļ	<u>m </u>				<u></u>	~	-+		302		1 0 29
	C Lopicion dumpoord		- T	_ 1	1			1 77	70.1		1 V	1.2701		
F	10 Glycymbize lepidote		<u>n </u>	<u>P </u>		_	-		<u> </u>				0.21	

t alia 3 (Cont.)		_	_			Que d	rate F	1858	rt.		9	6 Cove	r	= 14	1006	IM	P	
Appendix 3 (Colla)		_			96 OT	5 J		A	194	Jun	1895 J	une96	Augy	212	0030	1	0.1%	
Plot Species		-	Par	<u>194</u>	Julya	-			1.3%		 		0.3	3%		T	0.1%	
40 Festuce pratensis	e							_	2.0%	4-	+		+		0.39	4	0.1%	
40 Panicum virgatum	1	6						-+-	1 39	+	+					+-	0.12	
40 Stipe vindule	e	P					_	-+-		1	0.3%	0.39	6			╋	015	
40 Cirsium arvense		m			 	+		-+	2.09	6	0.3%		┶━━	-+		╋	0.1%	
40 Podosperintini senata	n	m				+	_	-+	1.39	6			+	+		+	0.1%	
40 Trifoium repens	e	1P	┡		┼──			-1	1.39	6			╉━╍	+		╋	0.1%	
40 Sobaeralcee coccinia	1	P.	╋	5.6%	+				1.39	<u>×</u>			+				0.0%	
40 Unk. Forb -850	-10		╂─		+				0.7	約-			+	-1			0.0%	1
40 Cerex sp.	+	- Ter	t						0.7	2-						_	0.0%	4
40 Bromus tectorum	-1	5 m					_	+	0.7	╩╋╴	5.1%	10.1	% 8	3.3%	8.0	씌	0.0%	
40 Sysimbnum alassimum	T		Τ		1					-†-	8.6%	22.2	% Z	2.3%	38.		48.0%	1
40 Bare Ground	Ι				+	0.0%	110	0%	99.3	1%	59.1%	55.7	% 5	5.6%	31.3	2	6.9%	5
40 Litter		elp	4	97.29		52.8%	8	3.9%	72.0	19%	6.6%	7.1		2 694	- 1	3%	6.29	5
41 Carex praegracilis	-1	nļ	4	63.9		00.0%	10	0.0%	25.3	3%	4.39	2.	3%	4.0%	<u>†</u> ––		5.39	5
41 Poa pratensis	-	<u>e </u>	2+	66.7		75.09	6 9	7.2%	55.3	3%	C C9		296		5	.4%	5.09	6
41 Trifolium hybribum	_		#	30.6	%	55.69	6	5.6%	45.	3%	0.07		3%	0.3%			4.9	틝
41 Trifolium fragilerum	_		片	63.9	%	58.39	6 8	8.9%	33.	꼶	2.6		9%	0.7%	6 1	.3%	3.5	즭
41 Juncus arcticus	_	in l	Ħ	41.7	%	19.49	<u>× 4</u>	4.4%	20	욻	1.3	× 0	.3%	0.79	4 9	1.3%	1 32	픬
41 Carex nebrascensis		e	pÌ	19.4	96	<u>50.0°</u>		14 49	34	7%		0	.6%	0.79	4-9	1.57	2.3	s l
41 Taraxacum cincianaro		n	u	69.4	1%	20.0		47.29	32	0%	1.0	% 0	.6%		+	1.0%	1.9	*
41 Tracchin maritimum	_	n	Р	41.7	204	22.7	ő t –	16.79	6 36	.7%		19	1.6%	1 7		0.79	6 1.8	1%
A1 Phieum pratense		10	P	- 36.		22.2	%	47.29	6		<u> </u>		1.070	0.3	8	0.39	6 1.7	1%
41 Agrostis gigantea	_	10	P_		-+	36.1	%	19.4	6					2.6	%		1.1	1%
41 Tritolium pratense		-le-	18-	55.	6%			2.8	<u>s 20</u>).7%	1 4	78	6%		T	1.09	× 0.9	26
41 Carex lanuginosa	-	╬	10	19.	4%					0.070	<u>}</u>							
41 Plantago major	-	th	Þ	19	4%	13.9	3%	5.6	취속	39	: 						-1-8	594
41 Sisyrinchium monuanum	_	In	P	8	3%	19.4	4%	194		2.79	6		0.3%		-+-		-+	5%
41 Juncus Kongistyns		e	P	<u> </u>	-	- 2	896	2.8	\$ 1	8.09	6				wt-		10	4%
41 Juncos gerara	_	-	ĮΡ	1 22	2%	- 2.	6%			3.39	6	_			2		0	.3%
41 Carex stipeta	_	-	112	+	0.0.0	16.	7%				4	-+-	1.0%		-+-		0	2%
41 Eleocharis macrostachya		-#		+				_		0.70	. +	-+-	1.0 ~				0	2%
41 Poe aride					2.8%	8	.3%		_+-	0.7	"	+-		0.	7%			
41 Ambrosia artemesnolia		-f	n ls	5					-+-		-+	+				0.	3%	12
41 Panicum Virgatum	_	1	nl			<u> </u>	000		-+-					╄	+		-+-7	115
41 Sporobolus alloided			e			<u> </u>	.0%		-+	3.3	1%			+	+		-+-	0.1%
41 Apocynum osciosa			n	티-1	3.9%	4			-				0.69	4-0	3%			0.1%
A1 Cichorium intybus	_	_	•	₽┥		+						+		╧	<u>~~</u>			0.1%
41 Plantago lanceolata			P	뭐			2.8%					0.3%		+-				0.1%
41 Rumex crispus		_	l.						+		294	0.3 %						0.0%
41 Unk Forb -948			6	D							3%			T	_	 		0.0%
41 Dactyfis glomerata			In	u	5.69	×		–		- 2	0%				_	_	+-	0.0%
41 Hordeum jubatum			e	P	2.89	*		+		0	.7%					╋	+	0.0%
41 Lorus terrais		_	e	<u> </u> ■	0.2	. -		+		2	.0%				0.7%	+	1.0%	0.0%
41 Unk, Forb -851			14	뿌╄╌	0.3	~		+				3.3%	123		28.19	1 2	7.6%	0.0%
41 Bare Ground			╋	┼╌╂╼		-+-		T				12.5%	1 13-	5	51.89	1 5	3.2%	40.9%
41 Litter	_		╉		100.0	1 180	00.0	6 10	0.0%	1100	0.0%	40.37	6	5 %	4.69	6	2.0%	9.0%
42 Festuca pratensis			╡	151	91.7	1% 1	00.0	\$ 10	0.0%	4	0.02	0.39	<u>i</u>		7.89	6	0.3%	6.3%
42 Poe pratensis			-ť.	- ut	50.0	0%	77.8	%	12.2%	<u>1 a</u>	<u></u>	3.69	6 5.	8%	2.9	×L	3.7%	224
42 Trifolium hyonbum			Ť	e p			91.7	<u>% </u>	0.6%	ᡩᡜ	4.0%	6.39	6 5.	8%		_ -	8.7%	5.0%
42 Tritolium praterise		_		e p	80.	<u>6%</u>	33.3	20	11.19	6 5	6.7%	8.6	6 10	.0%	2.9	*		4.7%
42 Infolum neglicitan			\Box	nIP	44.	4%	60	196	69 49	6 6	57.3%		12	.9%		-+	0.3%	3.6%
42 Deleum pratense				•P	- 42	470 092	21	396	27.89	6 4	42.0%	6.0		12	10	136	1.7%	3.6%
42 Carex praegracitis	_		_		52	8%	33.	3%	63.9	* 4	43.3%	1.0	2	094	0.3	5%		3.0%
42 Taraxacum officianale			_			.3%	22.	2%	66.7	<u>%</u>	40.7%	1.3	~+-'		0.3	3%	0.3%	2.9%
42 Juncus arcticus	_		_				55.	6%	80.6	約	2.1%	56	st (0.6%	1.	3%	0.3%	1.9%
42 Agrostis gigantee	_			• p	5	5.6%	16	7%	8.3	2	42.79	<u>'''''</u>		1.3%	2	3%	0.3%	1.8%
42 Dectytis glomerata	_		-	nu	13	3.9%	2	8%	105		3.49	1			2.	6%	0.99	1.07
42 Eleocharis emplica				up		2.8%	16	./*	13.9	iất	26.79	6		1.0%	10	7%	0.39	6 0.49
42 Carex sp.		_		n p	13	3.9%		+			3.39	6		0.3%	4-1	270	0.07	0.49
42 Convolvulus ervensis			_	10 IP		_		+			19.39	6	_ل_				1	ن المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المر مراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع ال
a contant	m			IN IP	L		1											

42 Sisyrinchium monual

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Арр	and ix 3 (Conc.)		ſ		% of Ours	drats Pres	sent			6 Cover	r		L
		-1	-	Part94	July95	Jutv96	A1194	Jun	e95 J	une96	Aug95	Aug96	IMP
Plot	Species	n İ					14.0%			0.3%			0.3%
42	Linesterete leeviceta	'n	m	2.8%		8.3%	6.79	, ,					0.3%
421	at a tequis		P	2.8%	11.1%	2.8%	0.79						0.3%
421	Electheris macrostachva	n	P			8.3%							0.2%
42	luncus longistylis	n	P		5.6%		2.79	5					0.2%
42	luncus nodosus	n	Ρ			8.3%						——	0.2%
42	Melilotus alba	•	m				1.39	6 1	.0%				0.2%
42	Plantago major	8	P				8.79	·					0.2%
42	Sefix exigue	R	P	2.8%	2.8%	8.3%	0.79	<u> </u>					0.1%
42	Apocynum sibericum	0	P	2.8%	2.8%	2.8%	1.39	<u>-</u>			┟		0.1%
42	Prunella vulgaris	n	P	5.6%			5.39	<u>-</u>	_+			 	0.18
42	Plantago lanceolata	θ	P_		2.8%		1.37	뛰	<u> </u>		<u> </u>		0.1
42	Ranunculus macounii	n	P	5.6%	L		3.37	<u></u>				 	0.0%
42	Asclepies speciosa	n	p.				2.07	<u>-</u>	+				0.0%
42	Medicago lupulina	•	m				0.73	2					0.0%
42	Rosa arkansana	n	Ρ.		<u> </u>		0.77	4		0.3%	0.7%	1.09	0.0%
42	Bare Ground					 	<u> </u>		202	9.7%	19.5%	27.49	0.0%
42	Litter		-		10.40	10.40	59 04	1 48	2 4 94	13.9%	11.9%	8.49	14.5%
43	Festuca pratensis	•	P	33.3%	13.4%	92.20	100.0		7 694	5.3%	14.4%	9.89	12.1%
43	Panicum virgatum	n	P 	10./%	00./70	75.00	61 20	1	5 394	4 6%	5.89	5.79	10.1%
43	Andropogon gerardii	<u>n</u>	P.	31./%	31.1%	13.07	5.27		6 994	9.39	9.6%	5.49	8.7%
43	Juncus arcticus	<u>In</u>	IP.	19.4%	83.34	66 74	70.0	ĩ -	6 3%	4.0%	5.4%	1.09	8.2%
43	Plantago lanceolata	10	1 <u>P</u> _	99.470	26.194	60,7%	55 3		3.0%	5.09	1.6%	4.49	6.9%
43	Poe pretensis	10	P.	10./%	50.170	52 94	1		5.3%		9.39	3.49	6 6.3%
43	Agrostis gigantea	<u>•</u>	P	10 70	- 30.37	34.07	347	x 1	1.6%	3.39	3.89	2.49	6 3.4%
43	Carex nebrascensis	In.	P-	20.6%	44404	30.6%	233	Ξł ·	2 0%	2.39	5	3.09	6 3.3%
43	Carex praegracilis	n	ĮΡ_	41 79	10.494	22 29	547	ĩ -	2.0%	3.09	i —	1	3.1%
43	Phleum pratense	l.	<u> P.</u>	41.77	55 694	25.09	35 3	a t i	0.3%		1	0.39	6 2.5%
43	Poa compressa	0	P .	9 200	5.6%	2.89	413	<u>, </u>	1.6%	3.39	0.39	5	2.3%
43	Eleocharis elliptica	In	쁜	46.7%	52.8%	16.79	40	ŝ.	1.0%	0.39	1	1	1.8%
43	Bromus japonicus	P	Im	47.2%	16.7%	25.09	25.3	<u>s</u> t-		0.39	6 1.09	6	1.6%
43	Taraxacum officianale	P	먇	41.27	38.99	22.29	11.3	<u>%</u>	0.3%				1.5%
43	Cichorium Imyous	ŀ	P	<u> </u>	8.39		17.3	ŝ.			3.89	6	1.3%
43	Carex stipeta	H	腔	+	11 19	36.19	5	-	0.7%		0.69	6	1.2%
43	Sporobolus asper	tn.	HP.		13.99	19.49	6						0.7%
43	Disc storigisty is	In	Im	22.29	13.99	13.99	5.3	%			0.39	6	0.7%
43	Cimilian angesta		1			1	13.3	%	1.3%	0.39	6	0.3	<u>% 0.7%</u>
43	Ambreis ariestechve	Ť	15		19.49	6 8.39	6						0.6%
43	Comphalus anensis		1E	8.39	6 8.39	6 16.79	6 4.7	%					0.6%
143	Schizechyrium scooerium	In	1p	16.79	5.69	6 11.19	6 5.3	%	0.3%				0.5%
43	Medicado kupulina		In	16.79	6 13.99	6	9.3	%					0.5%
	Trifolium moneos	le	D	22.29	6 2.89	6 8.39	6 13.3	%		Ĺ			0.5%
	Paunelle vulcetis	Īn	D	16.79	6	8.39	6 18.0	1%					0.5%
	Rumex crispus	10	1p	8.39	6	8.39	6 10.0	%	0.7%				0.5%
1	Aster faicatus	In	D	2.89	6 13.99	6 2.89	6 1.3	9%	0.3%	L			0.4%
	Bouteloua gracilis	In	D	T	16.79	6					-		0.3%
4	Hordeum jubatum	Jr	ju				6.0	7%	0.7%	ļ			0.3%
4	Opuntia macromiza	Ir	P		8.39	6 5.6	6			$\frac{1}{2}$	_ 	+	
4	Lotus tenuis	1	p				5.	3%		0.3	70	<u> </u>	000 000
4	Tritolium pratense	1	P		11.19	6	0.	7%		0.3			0.370
4	Rosa arkansana	ſ	۱Þ	2.89	<u>%</u>	2.8	% 4 .	7%			0.6		- 0.070
4	Carex brevior			8.3	\$ 2.8	*	2.	/%	0.3%	4			- 0270
4	Buchloe dectyloides	Ī	1		1	8.3	%	-		+			0.2%
4	3 Muhlenbergia asperifolia	T	1 F		5.6	36 2.8	<u>* </u>				-+	× 0'	394 0.2%
4	3 Sorghastrum avenaceum		n [r	2	_	<u></u>	+-	<u></u>		+		<u>, al 0.</u>	
4	3 Erigeron divergens	T	n [r	n 11.1	% 5.6	70	<u>Z</u> .	/%		+			
4	3 Lactuca serriola		e f	n 8.3	<u>% 8.3</u>	<u>*</u>	3.	3%			+	:0X	
4	3 Plantago major	J	• [<u>1</u> .	3%				<u>~</u>	
4	3 Agropyron repens	l	e [j	2		5.6	×			+		-+	
4	3 Dectylis glomerata	T	• []	2		_		_+		1 0.2	<u>~</u>		
4	3 Distichlis spicata	T	n [j	>		2.8	%			+			- 0.12
4	3 Asclepias pumila		n Iı	•			4	0%		+			
4	3 Asclepias speciosa	T	n I			2.8	<u>% 2</u>	7%					
4	3 Ambrosia artemesitolia	T	e II	m 16.7	%	_	4	/%		+			
4	3 Aster porteri	Τ	n [j	<u>ه</u>	_	2.8	96						
4	3 Carduus nuttans		• [m 2.8	%	_	$-\frac{\epsilon}{\epsilon}$.0%		+			
4	3 Grindelia squarrosa	Ι	<u>n T</u> i	m 11.1	%	_	2	.7%					- 0.17
	311 epiclium campestre	T	eli	m 11.1	%	2.8	96 4	.0%		<u> </u>			0.17

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App	adix 3 (Conc.)		1		N	dente Dros	cont		S. Cove	7		
		_		Dertor	% or Qua			June95	hine96	Aug95	Aug96	IMP
Plot .	Species	_	_	Parces	JUIVao	2.8%	-463-4	0011035	0011000			0.1%
43 1	Dalea purpurea	n	P			2.0 %					0.3%	0.1%
43 (Glycymtiza lepidota	<u>n</u>	P	11 104			4.0%					0.1%
43	Mehiotus omcinaiis	8	m	11.170	2 994							0.1%
43	Trifolium hybribum	•	U.		2.070			0.3%				0.1%
43 /	Mentha arvensis	n	Ρ.	E COV	E 694		1 396	0.00				0.1%
43	Oxafis dillenii	ก	Ш	0,0%	2.0%		3.30					0.1%
43	Unk. Forb -852	U	Ρ		— —		3.08				0.3%	0.1%
43 1	Unk. Forb -946	U	u.				2.0%			<u>}</u>		0.0%
43	Agropyron smithii	n	Ρ				1.2%					0.0%
43	Cirsium undulatum	n	m		L		1.37			{		0.0%
43	Cerastium vulgatum	0	Р	2.8%			0.7%			↓		0.0%
43	Silene antimhina	•	m				2.0%			<u> </u>		0.0%
43	Sisyrinchium montanum	n	P				0.7%		0.7%		0.7%	0.0%
43	Bare Ground							2.3%	0.7%	2.27	0.77	0.0%
43	Litter							30.6%	43.4%	21.970	33.77	0.0 %
44	Festuca pratensis	e	P	100.0%	100.0%	100.0%	91.3%	52.1%	39.9%	48.8%	40.0%	39.5%
	Juncus arcticus	n	p	77.8%	94.4%	94.4%	56.7%	8.5%	5.6%	4.0%	8.3%	11.0%
	Poa pratensis	8	Þ	38.9%	58.3%	97.2%	42.7%	6.2%	6.6%	6.8%	6.0%	9.7%
	Phieum pratense	e	ip.	16.7%	33.3%	38.9%	33.3%	1.3%	2.6%	1.2%	2.3%	4.1%
┝╦╬	Andronogon gerandii	n	1p	1	8.3%		0.7%	2.6%	2.0%	6.8%	8.7%	3.7%
 	Agenetic gigentee		10	†	61:1%	36.1%	T	1.0%		2.2%	3.7%	3.5%
⊢ " ‡	Floorboris elliptice	Ē	1	61 1%	11 1%	55.6%	39.3%	1.0%	1.0%	0.3%	0.3%	3.3%
44	Elecchans emplica	Ë	12	50.04	A1 7%	22.2%	40.0%	1.3%	1	0.6%	1	3.0%
44	Тапахасит отсіалаю		1 <u>P</u>	12.0%	25.04	10 494	2 2 2 4	1 30	1	4.7%	2.79	2.6%
44	Panicum virgatum	<u>In</u>	ĮP.	13.570	23.0%	9.294	20.7%	1.0%	0.39	3 19		2.1%
44	Trifolium pratense	e	IP.	41./%	13.5%	0.070	1 1/ 70	2.00	2 00	0.00	0.79	1.6%
44	Dactylis glomerata	8	₽.	<u> </u>	1 1 1 1 1 1	<u> </u>	14.78	4 207	4 00	2.04		1.6%
44	Melilotus officinalis	e	m		11.1%		21.3%	1.370	1.07	2.2.7	<u>'</u>	1 5 9
44	Cirsium arvense	e	P	11.1%	27.8%	16.7%	8.7%	0.7%		0.37	¥	1 1 1
44	Eleocharis macrostachya	n	P		47.2%	<u> </u>	L	I		<u> </u>	0.70	1.170
44	Medicado lupulina		m				9.3%	0.3%	0.79	0.9%	2.79	
	Plantaco lanceolata	e	P		2.8%		18.0%	0.3%	1.09	1.29	0.79	
	Rumex crispus	e	Þ	1	25.0%	8.3%	6.7%	0.3%			0.39	6 1.1%
			D		16.7%	13.9%	2.0%	J			0.39	6 0.9%
	Comphulus anansis	e	D			1	18.0%	0.3%	0.39	6 <u>0.39</u>	<u> </u>	0.7%
	Benerus inernis	i.	15		1	1	6.0%	1.3%	0.39	6 0.99	6	0.6%
44	Bronius inerinis	Ě	15	25.0%	16.7%	2.8%	6.7%	5	T			0.6%
44	Ambrosia anternesitoria	Ē	10		1		12.09	0.3%	0.79	6	0.39	6 0.6%
44	Ambrosia psikoslačnya	Ë	15		1		5.39		0.39	6 1.29	6 0.79	6 0.5%
44	Psoralea tenumora	1	12	5.6%	8 39	2.89	1 39			0.99	6	0.4%
44	Juncus longistylis	In	P	3.0 %	0.5 4	- 2.07	11 39	<u></u>	+	0.39	6 0.3	6 0.4%
44	Muhlenbergia aspeniolia	<u>In</u>	₽₽.	2.07	44 40		2.79	<u>.</u>	+	0.39	6	0.4%
44	Poa compressa	10	Į₽.		1 11.17	<u></u>	2.17	2	0.39	6 0.69		0.3%
44	Agropyron smithii	In	P	<u> </u>			0.07	0 70	- <u>0.0</u>	<u>- 0.07</u>	¥	0.3%
44	Cichorium intybus	e	P		2.89	아	4.07	0.17	•	0.69	1 0 30	× 0.2%
44	Bouteloua gracifis	n	P	1		_	+	+	1	2 0.07	<u>- 0.3</u>	
44	Erigeron divergens	In	m	·	Ļ		+		1 1.0		-	
44	Gutierrezia sarothrae	n	P		L	<u> </u>	2.09	6	0.3	<u>81 0.39</u>	<u></u>	0.27
44	Lactuca semiola		Im	5.69	2.89	2.89	6 3.39	6	_		-	0.2%
44	Lepidium campastre	e	π				6.09	6			_	0.2%
	Carex nebrascensis	In	IP	5.69	6		2.09	6				0.1%
1 In	Cerex stipata	In	To	T	2.89	6	1.39	6	1	_	-	0.1%
	Agrony Ton (BDB03	1	10	1	2.89	6			0.3	%		0.1%
1	Bouteloue cutinentule	tř	tē	1	1	1			0.3	%	0.3	% 0.1%
		te	1F	1	+	+	4.7	6				0.1%
44	Diomus jeponicus	t	ال	. 	+		1	1	0.3	%		0.19
44		ť	12		EF	<u></u>		+	1		1	0.19
44	Hordeum jubaium	ť	12		3.01	<u>~</u>	1 070	× 0.7	*		-	0.19
44	Schizachynum scopanum	4	ЧP	<u>+</u>				~ ~~.'			1	0.19
44	Spartina pectinata	1	יוִ₽	'	2.8	~	1 20					0.19
44	Asclepias pumila	1	ιļΡ	·			2.0	<u></u>	+		-+	0.17
44	Aster falcatus	1	۱Þ	<u> </u>			2.0	<u>~</u>	+ 0.3	70	+	0.17
44	Aster porteri		r le				_		-+			0.17
4	Liatris punctata	1	n F						- 		0.2	0.19
4	Tracopogon dubius	Te	e In	n	_		2.0	%	_		0.3	96 0.19
	Sisvinchium montanum	1	n i c	8.3	5 2.8	*	2.7	%				0.19
	Geura coccinea	ti	n le	51	1		T		0.3	3%		0.19
H#	ILlak Earb -853	1	u h	83	*	1	2.7	%				0.19
4		ť		<u> </u>	~ †	+				0.3	1%	0.09
14		ť	. #							0.3	%	0.0
4	Verbascum mapsus	-ť	4					-1-07	96 1 5	3% 1 6	36 0	3% 0.0*
4	4 Bare Ground	┥	+			-+		14.9	\$ 200	196 8	196 20	096 0.00
A	411 ittor	1	1	1	1	1		1 14.0	101 201	- <u>1</u> 0	- ~ _ <u>~ ~</u> .	- MI _ M.M.

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Арр	endix 3 (Cont.)		1		8 of Ours	irats Pres	sent		% Cover			
			-	PartQA	10h/95	July96	Ali94	June95	June96	Aug95	Aug96	IMP
Plot	Species		-	88 9%	75.0%	80.6%	70.0%	10.0%	10.2%	20.1%	16.7%	18.3%
45	Andropogon gerardi		2	102.8%	33.3%	83.3%	60.0%	17.1%	5.0%	4.9%	8.0%	11.2%
45	Poa pratensis	n l		94 4%	66.7%	86.1%	79.3%	4.8%	2.3%	4.2%	2.7%	7.0%
45	Ambrosia psilosiacnya		Ē	66.7%	88.9%	61.1%	58.0%	9.4%	3.6%			6.1%
45	Bromus japonicus		m	50.0%	36.1%	19.4%	40.0%	4.2%	4.0%	2.6%	2.7%	4.9%
45	Engeron avergens		0	27.8%	30.6%	36.1%	27.3%	1.6%	5.3%	2.9%	2.7%	4.8%
45	Bouteloue gracilis		<u>P</u>	16.7%	63.9%	69.4%	15.3%	1.9%	1.7%	1.6%	1.7%	3.9%
45	Poa compressa		P	10.7 %	38.9%	52.8%	2.0%	1.0%	2.3%	0.3%	4.0%	3.3%
45	Lotus tenuis	5	2	33.3%	69.4%		18.7%	2.9%	2.0%	2.3%	0.7%	3.2%
45		n	E F	27.8%	44.4%	63.9%	22.0%		2.0%	0.3%	0.7%	2.7%
45	Grindena squarrosa		D.	19.4%	44.4%	47.2%	22.0%	1.3%	1.0%	1.3%	0.7%	2.7%
45	Plantago lanceolala	6	5	38.9%	47.2%	30,6%	28.7%	0.6%	0.7%	0.3%		1.9%
45	Taraxacum Uniciariaia	6	P D	16.7%	13.9%	58.3%	8.7%	0.3%		0.3%	2.0%	1.9%
40	Rumex crispus	6	m	16.7%	38,9%	2.8%	58.0%		0.3%			1.6%
45	Allysum minus	5	5	8.3%	13,9%	8.3%	23.3%	0.3%	0.7%	1.3%	0.7%	1.5%
45			5	8.3%	16.7%	13.9%	8.0%	0.6%	1.0%	0.3%		1.1%
42	Cicrionum intytos	ħ	6	2.8%	8.3%		12.7%	0.3%	1.3%	0.6%	0.7%	1.1%
45		10		27.8%	8.3%	13.9%	8.0%	1.0%			1.3%	1.0%
42	Prine um praterise	i.	m	8.3%	30.6%	8.3%	29.3%					1.0%
42	Partalous curtinendula	ľ	lp.		16.7%		2.7%			1.0%	1.79	0.9%
42			f	5.6%	13.9%		33.3%	1.0%			1	0.9%
42		5	1	16 7%	5.6%	8.3%	15.39	0.3%		0.6%	0.79	0.9%
45	Scritzecnynum scopenum	#	ال م م	5.6%	5.6%	11.1%	3.39	0.3%	0.7%	1.0%		0.8%
45	Aster raicatus	t"	Ӗ	2.8%	52.8%		2.09	5	·	0.3%	0.39	0.8%
45	Conyza canadensis	1ª	10	<u> </u>	2.8%		4.09	1.0%		1.09	0.79	0.8%
45		E	쁥	5.6%	25.0%	22.2%	2.09	0.3%			0.39	6 0.8%
45		1	1 <u>u</u>		16.7%	22.2%	9.39	0.6%				0.8%
45	Erodium cicutanum		1	8 396	25.0%	22.2%	2.09	6	1			0.7%
45	Unk. Grass - 174	분	10		20.0 2	36.1%		1	t	T		0.6%
45	Carex preegracitis	1	뽄	<u> </u>	 		1		· ·		2.39	6 0.6%
45	Panicum capiliare		100	10 49	13.9%		23.39	0.3%	1			0.6%
45	Sitamon nysmx	10	12	13.4 4	28%		10.09	6	0.39	6 0.69	6 0.79	6 0.6%
45	Heterotheca Villosa	10	12		38.9%	8.3%	<u></u>					0.6%
45		녆			28%	2.8%	0.79	6		0.39	6 1.79	6 0.6%
45	Mehlotus alba	+	1	┼───	83%		3.39	6 0.6%	0.39	6 0.39	6 0.7	6 0.6%
45	Phyla cuneifolia	12	뽄	1 1 19	25.0%	11 19	4.79	6				0.5%
45	Lepidium campestre		1	8 30	5.6%	16.79	2.0	<u>i</u>		1	0.3	6 0.4%
45	Carex neorascensis	-1-	P	2.89	16.7%		0.7	6 0.6%	5			0.4%
45	Agropyron smithi		P	2.07	10.7 %		1.3	6 0.39	0.39	6	1.0	\$ 0.4%
45	Aristida purpurea	1	IP.	+			27	<u>k</u>		+	1.7	\$ 0.4%
45	Bouteloua hirsuta	-1-	<u>IP</u>	┼───	5.6%	2.89	6 18.7	K.			1	0.4%
45	Hordeum jubatum	+	10		8 39				1.09	6		0.4%
45	Sporobolus cryptancitus	-10	12	<u> </u>	8.39	<u></u>	9.3	*	0.3	6		0.4%
45	Artemisia mgida	-1-	12	+	33.39	<u> </u>	2.0	*	1			0.4%
4	Silene anomina	부	10	'{	13.04	2 89	<u>دا</u>	0.39	6			0.3%
4	Juncus longistytis	-#	ΉĒ	+	11 10	5.69	<u></u>	+		1	0.3	% 0.3%
4	Agrostis gigaritea		<u>'</u> P	1 200	4	11 10	1 1 2	%	0.3	%		0.3%
4	Dactyus giomerata	-19	12	2.07	Ҷ	+	<u></u>	0.69	6	0.6	%	0.3%
4		-#	<u>+P</u>	+	27 89	6	07	%	1			0.3%
4		-#		1 200	21.07	<u>i</u>	15.3	<u>%</u>	+	— —	1	0.3%
4	Tragopogon dubius			2.0	8 <u>5.67</u> K	+	87	<u>%</u>	0.7	%		0.3%
4	Medicago luputina	-#	10	2.0	K 5.69	6	133	<u>%</u>	+	1	1	0.3%
4	Piantago patagonica	-	10	5.6	12.00	<u>.</u>	20	%				0.2%
4	Carex sp.	-	16	·	- 13.37	*	-+	<u>~</u> †		<u> </u>	0.7	% 0.2%
4	Muhlenbergia asperitolia	-#	1			+			1		0.7	% 0.2%
4	Panicum virgatum	4	<u>n F</u>	<u>'</u>		+		96		03	%	0.2%
4	5 Cirsium undulatum	4	<u>n fr</u>			+					0:	3% 0.2%
4	5 Gutierrezia sarothrae		n ļf	2.8	~			al	1 07	96		0.2%
4	5 Oxytropis lambertii	_	n r	2		+		A 0.2	w	<u> </u>		0.2%
4	5 Trifolium pratense	Ļ	•	¥			- 0.1		~ 			0.2%
4	5 Unk. Forb -856		u lı	· 	8.3	?		704				01%
4	5 Agropyron repens		e↓	2				70	-+		1 0	3% 0.1%
4	5 Koeleria macrantha	1	n j	<u></u>		.		-+	-+		<u> </u>	0.1%
4	5 Sitanion longifolium	1	n li	4	8.3	»		<u> </u>				0.1%
4	5 Sorghastrum avenaceum		nŢ	<u></u>				0.3	70			0.14
4	5 Stipe comata		nl	2				<u></u>		- ~		0.1%
4	5 Podospermum lacinatum		e	m			$\frac{1}{1}$	576				0.1%
14	5 Opuntia macrorhiza		n	<u> </u>	<u>% 2.8</u>	% 2.8	<u>196 4.</u>	<u></u>	-+	-+		0.1%
4	5 Paronychia jamesii		n	el					~ 			0.1%
	5 Trifolium moneos			ьТ	2.8	%oi	1	1 0.3	1761			U.17

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ADDCD	tix 3 (Cont.)		Г	_		<u></u>	undrat	s Pre	sent	Т		% Co	Ner				5-7	
· +P		- T	_	Deart	A	Jub/95	Jul	/96	All94	J	une95	June	96 Aug	195 /	wgso		1%	í
Plot Sp	ecies	+	_ť	an		001933			5.3	%		ļ		+		$+\tilde{c}$	0%	
45 M	onarda pectinata		<u> </u>		+		-+		2.0	1%						$+\dot{a}$	0%	
45 Ur	nk. Grass - 172		-		2 894				0.7	%						+	0%	
45 Ur	nk. Grass - 173	4	<u><u>u</u></u>		2.0 0				0.7	196				+		+-	0%	1
45 Y	icca glauca		러						2.7	7%						+-	0.0%	ł
45 A	clepias speciosa	n	P				-+-		0.7	7%						-+	0.0%	1
45 0	irsium arvense	0	P				-+		0	7%								1
45 14	elienthus annuus	n	m				-+-		2	0%		T				_	0.0%	4
45/1	etris ounctata	n	Ρ						+						L		0.07	4
4310	amelina microcarpa	•	m			21	5%		+ -	396		1			L	_	0.07	4
1 4510	aneina marcar	n	m		5.6%				+	396							0.07	4
4510		n	u			I			+ +								0.07	김
451	esquerena mornanzia	n	P					_	1-2		_	-					0.09	4
45 0	oryphanula missouries	In	D	T					1 4	070							0.09	<u> </u>
45 A	stragelus sricituarius	In	10	1					<u></u>	.070					—		0.09	6
45 L	Dalea purpurea	l.	the state	\mathbf{t}					10	./%		-+			1		0.09	6
45 0	Gaura coccinea	t.	te	+		2	.8%			_			+-		+	_	0.0	6]
45 F	Polygonum aviculare	t,	1	-	2.8%	5				.7%					+		0.0	6
45 /	Populus deltoides	10	1	+					1	.3%				_	+		0.0	S
451	/erbascum thapsus	ť		+-					· 0).7%			+	_	+		0.0	5
45	Viola nuttallii	Ŧ,	ΗP	+		+	-+		1	.3%	1		+		+	+	0.0	x 1
451	Unk. Forb -855	4	- IP	+-	_	+	+-).7%	1			40.45		792	00	5
45	Unk. Forb -857	4	민	+		+	+-				8.7	7%	8.6%	10.49	위~		- 0.0	ΞÍ
1	Bare Ground		4	+-	_		+		-	_	26.	5% 4	3.6%	39.69	<u> 1 34</u>	1000	10.0	a
	Litter	T		\bot				80.6	a la	4.7%	11.	4% 1	2.2%	21.09	<u>6 13</u>	0%	10.0	괽
1 43	Spombolus asper	1	n le	1	63.9		2.170	60.0	2 7	7 39	6	6%	6.3%	9.49	<u>% 10</u>	0%	11.8	哥
40	Des actionsis	Ţ	0 F		83.3	<u>x 6</u>	9.4%	01.	2 2	<u>603</u>	2	2%	1.3%	4.2	<u>% (</u>).7%	4.8	꼴
46	rua proto insta	T	n Ir	<u>م</u>	55.6	<u>% 5</u>	0.3%	03.4		8.04	1 3	5%	1.6%	1.9	% (0.3%	4.8	2
46	Aster la calus	1	e i	51	77.8	% 6	1.1%	66.	730 4	0.07		394	2 6%	4.2	% 3	3.7%	4.4	1%
46	Convolvulus arvensis	1	n li			1.			1	8./7	위 윽		46%	1.0	8 7	2.3%	4.4	1%
46	Carex praegraciiis	-+		5	5.6	96	5.6%	5.	<u>6% 2</u>	5.39	6 .	200	4 394	26		3.0%	4.	2%
46	Rosa arkansana	-		5	13.9	% 5	0.0%	44.	4% 2	6.09	61 1	370	1.0%	0.6	ŝ.	1.3%	4	2%
46	Psoralea tenuifiora	-	-	5	66.7	96 5	0.0%	47	2%	4.09	6 3	.8%	1.07	<u></u>	<u>~</u> +-		3.	7%
46	Plantago lanceolata	-	-	<u>e</u> +	25.0	96 5	5.6%	47.	2%	26.0	<u>× 5</u>	1%	1.37	= = =		2 3%	3.	5%
46	Bromus japonicus	_	•	<u></u>	25.0	act -	5.6%	16.	7% 2	26.7	8 1	.6%	1.3%	3.0	20	1 796	3	2%
46	Panicum virgatum	_	n	<u>P</u> +	23.0		5 0%	41	7%	20.7	% 2	.8%	0.7%	1.8	<u>-</u>	3.0%	3	0
46	Agropyron smithii	_		러	01.1				-	31.3	% 0	0.6%	2.0%			3.0 %		6%
46	Juncus arcticus			<u>P</u>	22.5		11 196	44	4%	26.0	% 2	2.5%	1.3%	1.	~-			28
46	Dicanthelium oligosanthes		n	m	33.		44 494	36	1%	10.7	% ि	3.2%			_		⊢ ‡	쇖
	Meliphus officinalis		e	m	27.	070	944.4 70 26 4 M	- 5	696	26.0	% (0.9%	0.3%	1.9	3%	0.3%	+	
	Ambrosia osilostachya		<u>In</u>	P			30.17		38	20.0	96	1.6%	0.7%	1.	3%	1.7%		37
L#	Cimium appense			P				+	004	10.0	96	1.3%	1.09	6		0.3%		.070
4			n	I P	22.	2%	25.0%		2.0	29.3	196	0.9%						.6%
4	6 Acmines Anotecco			m	44.	4%	58.3%	-	~~	23.	TRACE T	0.3%					11	.5%
4	6 Medicego Tupdains	_	le	P	30.	6%	50.0%	2	2.070	0.1	10	1.6%	0.79	6		2.09	6 1	.3%
4	6 Taraxacum Cincianare	_	In	D				<u> </u>		10.	700	1 396		1	.9%			.3%
4	6 Carex nebrascensis		-	D	27	.8%	8.3%		8.3%	22.	<u></u>	1.0.0	1.6	x 1	3%	0.39	6	.3%
4	6 Festuca pratensis		1n	10	2	.8%	2.8%	6 1	6.7%	1.	3%		0.30	<u></u>				1.2%
T4	6 Sorghastrum avenaceum		Ť		8	.3%	33.39	6 2	2.2%	11.	3701		- <u>0.5</u>		+			1.0%
	6 Ratibida columnitera	_	-ť	15	1 16	7%	33.39	6 1	6.7%	10.	7%		 		+		-†-	0.8%
	16 Pos compresse		+	<u>+</u>	1 10	496	16.79	6 1	9.4%	12.	7%		<u> </u>		+	0.3	<u>_</u>	0.8%
	16 Agrostis gigaritee		-#	12	+	694	11.19	6	8.3%	2	7%	0.9%	0.7	~-			-+-	0.8%
	46 Chrysothamnus nauseosus		-#	ιP		ROL	8 39	6		29	.3%	0.6%	1			0.2	.	<u> </u>
E	46 Lepidium campestre		-4	e tw	+ 4		0.0			4	.0%	0.3%	1.0	7%	1.3 %	0.3	<u>~</u> -	0.6%
H	46 Andropogon gerardii		1	nļΡ	_	+		+	5.6%	10	.0%		1		1.0%	0.3	2	0.07
H	46 Ascienias speciosa	_	1	nip	+		40 7		0.0.0	1 6	3%	0.39	6		0.6%	L	_	0.02
H	AC Meliotus alba			• 11	4		16.7	~		ᡰᢇᢆ	3%		0.7	7%	0.3%	0.7	1%	0.5%
L L			T	np				_ _	0.20	+	34	0.69	1					0.5%
L	401 TUCCE Yours		1	nIn		5.6%	8.3	*	0.37	+ 2	ñal	0.39	6					0.5%
L	40 Engeron avergent		-1	nip	T_1	3.9%		_+-	10./%	4-5	2 2 2 2		1	0%				0.4%
L	46 Opuma macromiza	_		nic	51					+-	2.270		+			T		0.4%
L	46 Carex lanuginosa	-		elz	5 1	6.7%	5.6	5%	11.19	<u>+</u> -	2.37			-+-			T	0.3%
Γ	46 Phieum pratense		_			6.7%	5.6	5%	5.69	4	6./%		-+	-+	0.3%	1 0	3%	0.3%
Г	46 Sitanion longifolium			t, t			5.6	5%	2.89	6			-+	-+-	<u></u>	<u> </u>	t	0.3%
ł	46 Grindelia squarrosa	_		till t		5.6%	8.	3%		1	1.3%					+ ~	30	0.2%
ł	46 Allysum minus	_		 		0.0.0	<u> </u>	-+	2.89	6	0.7%					╇	201	0.2%
ł	46 Dactylis glomerata	_	_	벁	<u>-+-</u>	5 694	<u> </u>	-+		Т	7.3%					᠆᠆		0.2%
ł	46 Muhlenbergia asperifolia	_		Tu t	₽┥	5.070		394		1	2.7%							0270
	46 Packeria pseudoaureas			in	╚┼┈	5.6%	+ 0 .		2.8	s t-		T		.3%		1		0.270
	46 Solidago gigantea			n	<u>e</u>		+	+-	2.0	-+-	10.0%	1		I				0.2%
	AC Transport dubius				m	8.3%	4	-+		-+-	6 7%	1						0.1%
	40 118 Charles Alintics			n	uj					-+-	5 204	+						0.1%
	40 Elocariatino omprova		_	In	P	16.7%	6	_		+	70	+	-+-	+		Т		0.1%
	46 Juncus Konguskyus		_		P		5	6%										
	46 Bromus inermis			ستنغب														

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Арр	endix 3 (Conc.)		ſ		% of Qua	drats Pre	sent		% Cove	N			
Plat	Species	Τ		Part94	July95	July96	A1194	June95	June96	Aug95	Aug96		
46	Schizachyrium scoparium	n	P				2.0%		0.3%	·			0.1%
46	Sporobolus cryptandrus	n	Ρ			2.8%				+	ł		0.1%
46	Carduus nuttans	•	m	2.8%			5.3%	 	<u> </u>	0.39	<u> </u>	+	
46	Heterotheca villosa	n	P				0.7%			1 0.37	<u>'</u>	+	0.1%
46	Lactuca semiola	0	m	2.8%	2.8%		2.07	 			 	+	01%
46	Podospermum lacinatum	0	m,	16.7%			4.07			+	+	╈	0.1%
46	Camelina microcarpa	•	m				4./ 7			0.39	<u>, † – – – – – – – – – – – – – – – – – – </u>	-1	0.1%
46	Chenopodium fremontii?	n	m			284		+		<u> </u>	1		0.1%
46	Elaegnus angustifolia	e	<u>P</u>	16 74		2.0 %	4.0%	<u> </u>	<u> </u>		1-		0.1%
46	Polygonum aviculare	8	m	10.770				1		0.39	5		0.1%
46	Rumex crispus		2				1.39	1					0.0%
46	Carex heliophylia		2				2.09				T.		0.0%
46	Carex sopera			2.8%			2.7%	,			T		0.0%
46	Anstide purpuree	'n	D				2.09	5					0.0%
40	Bouterous gracus	u	u				2.79				<u> </u>		0.0%
40	Unk. Grass - 175	e	m	11.1%			2.79				1		0.0%
40	Delea ourouraa	n	D				0.79	5		1	1		0.0%
40	Ghevriniza leoidota	n	P				2.09		ļ	_	- 	-	0.0%
AR I	Gaura coccinee	n	Ρ				2.79	<u> </u>	ļ	_	- 	-	0.0%
46	Gaura parvifiora	n	m		2.8%			+		1	1	<u>_</u> -	0.0%
46	Bare Ground					ļ		1.39	0.79				0.076
46	Litter				-		1	29.79	1 23.39	N 29.4	× 30.3	2	21 14
47	Poa pratensis	e	P	69.4%	100.0%	91.7%	86.79	18.49	14.0		K 16 2	~	17.8%
47	Rosa arkansana	n	P	44.4%	25.0%	41.7%	49.39	6 12.59	14.07	× 16 0	K 10.3	~	9.6%
47	Andropogon gerardii	n	P	69.4%	94.4%	77.8%	52.09	0 3.09		K 11 0	x 27	ŝ	9.4%
47	Sporobolus asper	n	P	77.8%	58.3%	66.7%	69.3	0 3.37	4.7		6 03	ŝ	5.8%
47	Panicum virgatum	n	P.	69.4%	69.4%	41./9	43.3	0 3.37		13	× 2.6	<u>s</u>	5.1%
47	Cirsium arvense	e	IP.	50.0%	38.97	12.27	40.09	4 39	1 3	1.6	6 2.3	8	4.8%
47	Juncus arcticus	n	IP.	38.9%	41./7	25.07	340.0	4 39	6 0 7	4.4	6 42	%	4.4%
47	Plantago lanceolata	e	IP.	29.09	36 19	2.07	28.0	6 1.09	6 0.7	× 1.9	× 0.7	'%	3.2%
47	Asclepias speciosa	In	<u> P</u>	52.97	30.18	33 39	25.39	6 3.09	6	2.2	*		3.1%
47	Carex stipata	10	P	27.8%	30.69	47.29	14.7	6 0.79	6 0.3	% 0.9	% 0.3	1%	2.6%
47	Aster faicatus		10	27.8%	22.29	38.99	6 14.0	6 1.39	6	1.9	% 0.7	1%	2.5%
47	Ambrosia psilosiacriya	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	15	- 21.00	1		18.7	6 2.39	6	2.5	%	_	1.4%
4/		In	lu.	16.7%	2.89	47.29	6 6.7	6 0.39	6		_		1.3%
47	Comphylus engosis	le	5		19.49	5	12.0	%	1.0	% 0.9	%	_	1.2%
47	Carex pregracilis	In	Þ	1			2.0	Ж	2.0	%	1.	5%	1.1%
47	Anocynum sibericum	e	Þ						0.3	<u>%</u>	2	3%	0.8%
47	Agrostis gigantea	10	P	25.09	6	5.69	6 17.3	% 0.79	6	-	~		0.7%
47	Schizachyrium scoparium	Īn	IP			2.8	6 3.3	% 1.0	6 0.7	<u>% 0.3</u>	76	201	0.04
47	Muhlenbergia asperifolia	n	P	11.19	6	5.69	6 12.0	%			<u> </u>	370	0.370
47	Dicanthelium oligosanthes	n	11	22.29	6 2.89	6 11.19	6 5.3	%			OK .		0.4%
47	Melilotus afba	e	n	<u>ч </u>	. 	+	16.7	70	×		~ 	+	0 4 9
47	Rumex crispus	e	P	2.89	6	13.99	<u>b 0.7</u>	7o 0.3 ∝ 4	70	-+	-+	-+	0.3%
47	Bromus japonicus	e	π	니	+	, 	4.0	<u>70 1.0</u>	<u>~</u>	-+	+-	-+	0.3%
47	Asclepias stenophylla	1	ΨP	·	11.19	<u></u>	-+				0	7%	0.2%
47	Solidago missouriensis	1	12	· 		<u>_</u>	+	x					0.2%
47	Taraxacum officianale	╇	P	· 	0.3	~	1 20	-		1 03	3%	1	0.1%
4	Carex nebrascensis	ľ	48	H	+		- 27	8		-+			0.1%
4	Juncus longistylis	+r	벁	<u> </u>	+		<u>+-"'</u>	0.3	%				0.1%
4	Bouteloua mirsuta	+Ľ	· JP	5.00	×	+	27	·%		-1			0.1%
4	/ Hordeum jupatum	분	14		56	*			1	_			0.1%
4	(mieum pretense	+	#	(0.:	3%			0.1%
L₫.	7 Emotium cicularium	ť	÷ť	<u></u>	+		-	0.3	96				0.1%
		-	<u>, t</u>	2.8	*		0.1	1%					0.0%
H	7 Poe comorasse	ť		51			2.0)%					0.0%
F	7 Sombestnim evenecerim	-fi		5			1.	3%					0.0%
H	7 Cardius nuttans	ا ر		nt			1.	3%					0.0%
H	7 Cichonum intybus	ť		; †		1.	1.	3%					0.0%
F	7 endium letitolium	t		5			0.	7%				_	0.0%
F	7 Trifolium repens		e li	b			0.	7%					0.0%
H	7 Unk Forb -752	-	u li				0.	7%					0.0%
H	7 Bare Ground	╡	Ť					0.	3%	0	3% () <u>.3%</u>	0.0%
E	71Litter	+	1					36.	5% 53.	5% 15	4% 5	2.0%	0.09
E	8 Schizechvrium scoperium	-†	n ti	58.3	% 58.3	% 63.9	96 34	7% 4.	9% 7.	3% 9	3% 1	.3%	9.5%
H	8 Dos orstaneie	+		833	% 83.3	% 80 6	5% 68	7% 7	2% 6	.7% 7	.1%	1.7%	8.89

Appe	andix 3 (Cont.)				% of Our	drad		ent		% C	over			l	
0-1	Preside		-	Part94	Julv95	Jut	v96	A1194	June95	Jun	e96 /	Aug95	Aug96	IMP	
100		F		61.1%	77.8%	5	5.6%	40.7%	4.9%	5	.0%	11.5%	6.0%	8.2%	
40 /		5	<u>P</u>	44.4%	72.2%	5	5.6%	56.7%	4.9%	4	.7%	8.4%	<u>6.3%</u>	7.8%	
40	Carax praegracilis	5		8.3%	5.6%	1	1.1%	19.3%	11.19	7	.0%	7.4%	6.3%	7.4%	Į.
40	Plantago lanceolata	e	Þ	80.6%	77.8%	8	6.1%	48.7%	3.6%		.0%	1.9%	4.3%	62%	1
48	Ambrosia psilostachva	n	₽	66.7%	72.2%	7	75.0%	61.3%	3.99	1	.0%	4.0%	3.0%	2.4%	ł
48	Cichorium intybus	e	Р	69.4%	83.3%	3	36.1%	40.0%	2.09	4-1	0%	2.0%	0.37	3.4%	ł
48	Convolvulus arvensis		P	52.8%	80.6%	4	1.7%	58.0%	2.09	4 9	.3%	223		3.4%	
48	Melilotus officinalis	e	m	16.7%	47.2%		36.1%	18.0%	2.37	4-3	0./70	7 794	2.0%	2.7%	
48	Melilotus alba		m	63.9%	13.9%		2.8%	46.7%	0.37	<u>-</u>	004	1 096	0.7%	2.5%	
48	Aster falcetus	n	P	16.7%	36.1%		19.4%	40.0%	2.37	1 -	394	.51	0.1 2	24%	1
48	Bromus japonicus	e	m	13.9%	41.7%	1	19.4%	30.77	2.07	2 -		2.7%	4 7%	2.1%	1
48	Juncus arcticus	n	P		05.00	–	0.20	24 79	2.07		0%	2.2%		2.1%	1
48	Poa compressa	10	P.	25.0%	25.0%	4	0.370	20.7%	2 39	<u>- 1</u>		1.9%	0.3%	1.8%	1
48	Agropyron smithii	₽	P	25.0%	21.0%	+	12.094	18 79	1 34		3%	1.5%		1.6%	1
48	Asciepias speciosa	n	ĮΡ.	13.9%	30.17	1-	5.5%	8.09	1 39	<u>;</u> `		3.4%	0.79	1.3%	1
48	Agrostis gigantea	e	P	0.00	0.37	4-7	5.070	2.09	0.7	<u>.</u>			1	1.3%	5
48	Taraxacum officianale	•	IP.	8.3%	20.0%	2	11 194	28.09	0.39	1 1	0.7%	1.9%	0.39	5 1.3%	5
48	Glycymhize lepidote	10	₽₽.	20.0%	27.94	4-	20 694	8 79		-		0.3%	0.79	1.2%	5
48	Distichlis spicata	10	몓	19.4%	12 00	(`	JU.U 70	11 39	0.7	6	1.0%	0.6%	0.79	6 1.0%	6
48	Psoralea tenutiora	10	12	14 4 4	16.79	1-	25.0%	6.79	<u>.</u>	1	0.3%		0.39	6 0.9%	5
48	Juncus gerardii	10	P	5.6%	13.09	1	2.8%	13.39	6 0.3	6	0.3%	0.6%	0.79	6 0.89	6
48	Bouteloua gracilis	<u>+n</u>	12	9.07	19.49	1	8.3%	19.39	6	1		0.6%		0.89	6
48	Ratibida columnitera	1-	P	0.37	2.94	-	5.6%	20.09	6 0.3	6	0.3%		0.79	6 0.79	6
48	Bouteloua cumpendula	+P	IP.	0.37	- 2.07	4-	2.8%	10.09	6 1.3	%		0.9%	0.39	6 0.79	6
48	Panicum virgatum	1	<u> P</u>	├ ───	+	+		0.79	6 1.6	6	0.7%		0.39	6 0.69	6
48	Eleochans ellipoca	+	10		+	+-		13.39	6 1.0	x		0.6%	0.39	6 0.69	6
48	Heterotheca villosa	10	HP.	8 39	<u></u>	+		15.39	6 0.7	8	0.3%	0.6%	6	0.59	6
48	Festuca pratensis		뽄	13.09	5.69	6		16.79	6 0.7	x	0.3%			0.59	6
48	Stipa comata	10	1P	10.0 %	8.39	ă†-		6.79	6		0.3%		0.3	6 0.49	6
48	Anstida purpurea	벁	10		+	╈	11.1%				0.7%			0.49	<u></u>
48	Phieum pratense	-1-	12	11 19	5.69	<u>i</u>	13.99	11.39	6	1-				0.49	K.
48	Artemisia mgida		H	11 19		+	2.8%	10.0	5	T		0.39	6 0.79	% 0.49	*
48	Cirsium arvense		1	1	8.39	6	5.6%	11.3	6	Т				0.4	*
48				2.89	5.69	6	11.19	8.0	6 0.3	%				0.49	×
40	Liefecer inputine	-i-	ال	13.99	6 5.69	6		21.3	6	Τ.		0.39	6	0.49	×
40	Medicego lupulne	-fr				+	8.3%	5 2.7	<u>د ا</u>		0.7%		0.3	% 0.4	×
40	Comy beliophylle	-t,		1	2.89	6	8.39	6.7	%			0.39	6	0.3	<u></u>
40		1		19.49	6	T		4.7	*			0.39	6 0.7	% 0.3	2
40		- 1			11.19	*	5.69	6 2.0	*					0.3	2
48	Engeron divergens	-	ιIπ		8.3	*	5.69	6 8.0	%				4—	0.3	귀
48	Rumex crisous	1	p		2.8	×	11.19	6 0.7	%		0.39	6		0.3	刔
49	Verbascum thansus	1	s în	8.39	6 2.8	*		10.7	%	_		0.3	<u> 6 0.3</u>	% 0.3	귀
48	Danthonia spicata	1	n Ip				13.99	6				- <u> </u>			귀
	Dicanthelium oligosanthes	-1	n In	1		Ι		2.0	<u>% 0.</u>	1%		+	- 0.3		2
	Sorghastrum avenaceum		n p		8.3	%	8.39	6		-		+	- 		2
1	Sporobolus heterolepis		njp			T						, 		202	2
1	Asclepias pumila		n			_		8.7	%	_	0.39	<u> </u>	-+		
Take take take take take take take take t	Gutierrezia sarothrae		n F		2.8	%		1.3	% 0 .	/%				-+ %*	<u></u>
4	Liatris punctata		n Is			_		18.0	76	-+-	0.00	. 	-		~~
4	B Opuntia macrorhiza		n [2.8	%	_	2.8	2.7	20	-+	0.5	~ ~ ~	~		<u>, 10</u>
4	3 Phyla cuneifolia		n			_		6.7	2	 +-		1 0.9	~	-+-#	÷
4	B Unk. Forb -860	Π	u I	33.3	%	_		8.0	76 0.	ᅍ	0.00	<u></u>		-	ié
4	B Carex lanuginosa		nŢ			_		+	<u> </u>	 +	0.3	~			Ĩ
4	B Bromus tectorum		eli	n	_	_			<u>, 0.</u>	270					- <i>1</i>
4	8 Sitanion longifolium		n	· 	2.8	596	5.6	<u>× 1.</u>	<u>~</u>	+	0.9	. 	-+		1~
4	8 Sporobolus cryptandrus		n	<u></u>		\rightarrow					0.3	~		-+	100
4	8 Yucca gleuca		n	2.8	%	_	2.8	70 5.	<u>""</u>	+				-+ -;;	10
4	8 Aster porten		n	<u> </u>	8.3	5%		+		-+	0.2	~ 		╧	10
4	8 Erigeron flagellaris		n	<u> 8.3</u>	96	_		- <u> Z</u>	100		0.3	~	-+	-+ *	10
4	8 Grindelia squarrosa		n	m				11	270		0.3	<u>~</u>		-	10
4	8 Lectuca serriola		•	m 2.8	96 2.	5%		3.	370		_			- <u></u>	10
4	8 Packeria pseudoaureas		n	P	2.	5%	2.8	× -					-+	-+-%	
4	8 Onosmodium molie		n	e				_ <u>5.</u>	370					-+ ×	10
	8 Allysum minus		•	m			L	6.						+ %	10
4	8 Camelina microcarpa		•	m		_		3	<u>376 0</u>	270			-+	- ×	17
	8 Lepidium campestre	_	0	m			L	-1-4	120	201				 - ×	.17
	8 Geura coccinee		n	P				2		.3%				- † ×	.17
	R Ovelie dillegii		In	ml 8.	3% 5.	6%		2	0%					0	417

Арр	endix 3 (Conc.)		4	<u> </u>	% of Quar	irats Pre	sent		% Cove	r		
	Crossiat			Part94	July95	July96	Ali94	June95	June96	Aug95	Aug96	IMP
49	Diantego petagonica	n	m				4.0%					0.1%
40	Link Forb -861	u	u	5.6%		5.6%	1.3%					0.1%
40	Boudelous hirsuta	n	P				2.0%				_	0.0%
40	Burbles dechloides	n	P		2.8%							0.0%
40	Koolerie mecrantha	n	D	8.3%			3.3%					0.0%
40	Certinis Differs		m				2.0%					0.0%
40	Sanchus ascar	e	m				2.0%					0.0%
40	Solicitus esper	'n	D				0.7%					0.0%
40	The less man mension amicum	0	6				3.3%					0.0%
40	Thelesperma megapotamicum		P.				0.7%					0.0%
48	Draba reptans			2.8%	2.8%		0.7%					0.0%
48		1	2	2.00	- 2.0 ~		0.7%					0.0%
48	Psoralea argophylla	In	P			2.8%						0.0%
48	Gaura parvifiora	<u> n</u>	m,			2.0 %	2.0%					0.0%
48	Penstemon angustifolius	<u>In</u>	P.	Į			0.7%	<u> </u>				0.0%
48	Ulmus pumilia	e	P_				2.0%	<u> </u>				0.0%
48	Unk. Forb -754	10	U				2.0 %	2 394	1.0%	2.8%	1 3%	0.0%
48	Bare Ground	┡	_	<u> </u>			 	22.0%	44.7%	13 396	40.5%	0.0%
48	Litter	1	ļ		-	04 70	04 70	23.570	32.04	32 74	37 20	34 00
49	Festuca pratensis	0	P.	75.0%	94.4%	91.7%	04./%	31.0%	4 97	32.17	E 4M	5 20
49	Carex praegracilis	n	Р	27.8%	38.9%	69.4%	16.7%	10.2%	1.3%	4	0.17	4 04
49	Taraxacum officianale	e	Ρ	55.6%	52.8%	75.0%	53.3%	3.0%	3.7%	1.0%	0.0%	4.070
49	Poa pratensis	e	P	25.0%	22.2%	11.1%	29.3%	3.3%	4.0%	4.0%	3.5%	4.42
49	Lotus tenuis	e	P	30.6%	66.7%	86.1%	8.0%	2.3%	1.3%	4 <u>.</u>	3.8%	4.1%
40	Tritolium fraciferum		P	19.4%		63.9%	32.0%	5.6%	4.0%	4	2.5%	4.0%
10	Piantago lanceolata		Þ	61.1%	30.6%	47.2%	58.7%	2.0%	1.3%	2.0%	1.0%	3.7%
	Phierm notense	le	Íp.	25.0%	25.0%	19.4%	54.0%	3.6%	2.7%	0.3%	1.69	3.4%
1	Trifolium hybribum	I.	ĺμ	52.8%	72.2%	22.2%	32.7%			3.0%	1.09	3.2%
49	Projection Nybriddin	Ť	1	8.3%	41.7%	52.8%	26.0%	1.3%	0.3%	0.3%	1.69	2.7%
49	Panicum virgatum	1.	!!!	25.0%	11 1%	30.6%	45.3%	1.3%	1.0%	0.7%	2.5%	2.6%
49	Eleochans elliptica	10	<u>u</u>	£1.0%	47.2%	41 74	24.09	1	0.39		2.29	2.4%
49	Hordeum jubatum	1	14	01.1%	42.0%	20.69	14.09	1	0.39	1.3%	4.59	2.3%
49	Agrostis gigarītea		ĮP.		44 7%	9.20	27 39	0.3%	0.39	1 3%	1.39	2.1%
49	Poa compressa	10	Į₽.	30.17	41.770	46.7%	20.39	4 394	0.79		0.69	1.8%
49	Juncus arcticus	In	₽.	22.2%	13.970	10.77	39.37	0.3%	1.09	1 096	0.39	16%
49	Convolvulus arvensis	10	Į₽.	11.1%	13.9%	19.47	22.07		1.07	2.6%		15%
49	Carex sp.	U	P		41.7%		4.07		1 00	2.07	1 1 09	1 3%
49	Carex nebrascensis	<u>n</u>	p	13.9%	5.6%	8.37	10.09	<u>xc.2 </u>	1.07	<u></u>	1.07	
49	Cichorium intybus	e	<u>IP</u>	33.3%	19.4%	19.49	24.79	6				0.9%
49	Juncus longistylis	n	P		19.4%	16.79	12.09	6			──	0.078
49	Bromus inermis		P		5.6%	16.79	6 0.79	61	2.09	6	1	0.070
49	Distichlis spicata	In	P	16.79	8.3%	8.39	6 <u>6.09</u>	6	1.09	6 0.7%	0.39	6 0.8%
49	Poa juncifolia	n	ĪP		19.4%			1	2.09	6		0.8%
49	Rose arkansana	n	Þ	2.89	6	5.69	6 12.09	6	0.79	6 0.7%	6 0.39	6 0.7%
	Dectviis glomerata	Te	D	T	T		3.39	6 0.39	6 0.79	6 0.79	6 0.69	6 0.6%
	Mubleobergia asperifolia	in	10	2.89	6 16.7%	22.29	6 0.79	6				0.6%
	Sporobolus esper	Tn	To	16.79	2.8%	11.19	6 10.79	6	0.39	6 0.39	6	0.6%
1	Bolymonum sawatchense	ار	ţ,	8.39	6 19.4%	13.99	6 2.09	6				0.6%
	Andronon generali	+		1	1		9.39	6	0.3	6 0.79	6 0.6	6 0.5%
		1-	#	27.89	6 2.8%	13.99	6 8.79	6 0.39	61	1	0.3	6 0.5%
49	Titolium ambasa	10	#	1 21.07	8.34	19.49	6	0.39	6		1	0.5%
49	I molum pratense		<u> P</u>	600	5.57	5 6	6 17 30	<u>st</u>	+	+		0.5%
49	Sisynnchium montanum	-f	ΨP		16 70	1 11 10	K 1 20	×	+		+	0.5%
49	Rumex cnspus	-1ª	ΨP	4	10./7	1 12 0		. .	+	+	1	0.4%
49	Juncus nodosus	_t^	L I P	<u>'</u>	+	13.8		~	+		+	0.4%
49	Poe arida	r	1P	4	5.69	10./		. 	+		+	0.74
49	Bromus japonicus	•	1	n 2.89	<u>b 2.89</u>	<u>6 13.9</u> 4	<u>⊳ 3.3'</u>	<u>~</u>	+		+	w 0.2%
4	Sonchus uliginosus	L	ı ju	·		+		_	+ 0.7	<u>~</u>	+ 1.0	A 0.07
4	Melilotus officinalis		1	n <u>8.3</u> 9	<u>%</u>	5.6	\$ 12.0	*				10.07
4	Plantago major	10) IP	8.39	\$ 2.89	6 16.7	% 2.0	%				
4	Eleocharis macrostachya	1	١ļ		11.19	6						0.29
4	Hippochaete Jaevigata	1	h In	n			11.3	%				0.2%
	Prunella vulcaris		1	51		2.8	% 9.3	%				0.29
		-	, f	<u>, 1</u>		1	4.7	%				0.19
1	Sataria deve	-12	ť	n 28	*	1	4.0	%				0.19
		-ť	ť	<u></u>		1			1		0.6	0.19
14		-ť	Ŧ	:1	+	+			+		0.6	96 0.19
4	a Asparagus omcinais	-#	-15	<u></u>		7 2 9	\$ 07					0.19
4	Ambrosia anomesitolia	-#	4	<u>" </u>		<u></u>	~ ~ ~ ~	ấ –				96 0.19
4	a Gnndella squarrosa	4	1	<u>"</u>		+			+		-+-~~	0.14
4	9 Podospermum lacinatum	4	<u> </u>	<u>n 2.8</u>	70		_ 	70	.			- 0.14
4	9 Unk. Forb -948	!	uļu	<u></u>			+		~			
4	9 Carex lanuginosa	T	n li	p l	ł	1	2.0	196			1	0.01

App	endix 3 (Cont.)		1		% of Our	drats Pres	ent		% Cove			
Diat	Spacies	<u> </u>		Part94	July95	July96	A1194	June95	June96	Aug95	Aug96	IMP
49	Carex brevior	n	Ð				1.3%					0.0%
49	Unk Grass - 178	u	U	11.1%			2.7%					0.0%
49	Asclepias stenophylla	n	P				1.3%					0.0%
49	Aster faicatus	n	P		2.8%							0.0%
49	Cirsium arvense	e	P				2.0%					0.0%
49	Tragopogon portifolius	e	m	2.8%			0.7%					0.0%
49	Cerastium arvense	n	P	2.8%			0.7%					0.0%
49	Spergularia media	8	P	8.3%			2.0%					0.0%
49	Melilotus alba	e	E				0.7%					0.0%
49	Verbena hastata	n	P				0.7%			ļ		0.0%
49	Unk. Forb -862	u	P				0.7%					0.0%
49	Unk. Forb -864	U	U				2.7%			6.00	5 4 94	0.07
49	Bare Ground							10.2%	8.3%	0.970	3.170	0.0%
49	Litter		L				50 70	14.8%	21.170	10.3%	12.170	13.8%
50	Festuca pratensis	e	Р	100.0%	94.4%	83.3%	52.7%	8.4%	0.270	10.370	10.0%	13.0%
50	Plantago lanceolata	e	P	88.9%	100.0%	94.4%	90.3%	0.4%	1.070	4.0%	2.0%	66%
50	Sporobolus asper	n	P	22.2%	25.0%	19.4%	01.3%	3./%	2.00	4.070	2.07	614
50	Pos compressa	0	P.	66.7%	61.1%	/5.0%	40.00	3./70	3.5%	2 2 2 2	3.3%	5.8%
50	Dactylis glomerata	0	P	30.6%	27.8%	50.0%	40.0%	3.1%	3.0%	4.5 0	374	5.6%
50	Sorghastrum avenaceum	<u>in</u>	IP.		38.9%	177 00	92.24	2.470	J.570	0.7%	1 0%	48%
50	Trifolium pratense	e	<u>P</u> _	88.9%	03.3%	121.0%	45.30	2.470	2.00	1 1 04	<u> </u>	444
50	Eleocharis elliptica	IU	U	36.1%	00.3%	75.00	40.170	4.170 5.404	1.0%	0.3%	0.7%	448
50	Phieum pratense	e	IP.	50.0%	60 70	10.0%	40./%	0.470	0.7%	274	4 39	4.3%
50	Poe pretensis	e	IP_	16./%	1 16 70	22.270	4.07	2 4 04	1 204	1.394	3.39	375
50	Schizachyrium scoparium	p	IP.	100.00	10./%	01 704	44.1%	0.704	1 0%	1 094	0.39	3.5%
50	Taraxacum officianale	10	IP.	100.0%	41 70	51.770	41.57	<u>V.770</u>	1.0%	0.3%	0.39	2.7%
50	Agrostis gigantea	e	IP.	80.6%	41./70	25.0%	20.04	0.7%	1 396	1.09	2.79	2.5%
50	Andropogon gerardii	n	P.	11.1%	25.0%	25.0%	19.00	0.7%		2.0%	1 09	2.0%
50	Panicum virgatum	n	Į₽.	16.7%	25.0%	30.170	10.0 X	4.7%	<u> </u>	0.7%		1.9%
50	Carex brevior	In	P	2.8%	22.270	20.6%	0.07	1 094	1 09		1 39	1.6%
50	Apocynum sibencum	e	<u>₽</u> _	11.1%	13.970	30.070	10.0%	0.7%	1.07	0.39	1 09	1.3%
50	Rosa arkansana	In	IP.	22.2%	19.47	46.7%	30.7%	0.77	0.39		1	1.0%
50	Prunella vulgaris	10	IP.	13.9%	25.070	20.6%	12.09	2	0.79	1	0.79	6 0.9%
50	Carex lanuginosa	1	P	19.4%	2.070	30.076	12.07	<u>}</u>	<u> </u>	1	1	0.9%
50	Melilotus officinalis	0	Im	44.470	22.27	30.370	24.79	<u> </u>	0.79	<u></u>	1.09	6 0.8%
50	Engeron divergens	1	m		<u> </u>	16 7%	10.79	0.39		0.39	6 0.79	6 0.7%
50	Aster faicatus	1	뽄		11 194	10.7%	26.09					0.7%
50	Medicago lupulina		100		25.0%	11 194	14 79		+	1		0.7%
50	Sisynnchium montanum	+	P		27.8%	16.7%	0.79	<u></u>				0.6%
50	Juncus longistylis	+	P.	04 494	1 21.0 %	10.1 4	43.39	ši — — —			1	0.6%
50	Unk. Grass - 160	H.		30.6%	<u></u>	+	35.39	6	1		1	0.5%
50	Juncus arcicus	÷,	12	11 19	13.99	1	17.39	6				0.4%
50	Dicanthenum orgosanunes			1	8.39	8.39	0.79	6 0.79	6	1		0.4%
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0 (Hippocheete feerigete in m 1.3% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	%00 %00	_			-					T	đ	1 eeundund eele0
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With the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	%00 %00 %00 %00 %00				+	%2'0 %E'1	+	¥0.7	+			Lepidium cempestre
1%20 served sta	%00 %00 %00 %00 %00 %00					%2'0 %E'1		%9.2				Vilippociation espirate Phyppochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavinget I hippochaetre leavi
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App	and ix 3 (Cont.)		ſ		% of Ourse	irats Pres	ient		% Cove	r		
Diat	Sacries	1	-	Part94	July95	Juty96	A1194	June95	June96	Aug95	Aug96	IMP
521	Stipe comete	n	БÌ	38.9%	72.2%	55.6%	63.3%	2.2%	2.3%	1.3%	2.3%	4.9%
521	Bromus japonicus	e	m	63.9%	91.7%	91.7%	52.0%	5.8%	1.3%			4.5%
52	ingeron divergens	n	m	47.2%	36.1%	30.6%	57.3%	4.2%	2.0%	1.7%	1.3%	4.476
52	leterotheca villosa	n	Ρ	52.8%	8.3%	63.9%	47.3%	1.3%	1.0%	3.0%	2.0%	4.270
52	Schizachynium scoparium	n	P	44.4%	77.8%	44.4%	39.3%	1.9%	1.0%	2.0%	1.37	3.6%
52	iatris punctata	n	p	52.8%	47.2%	44.4%	42.0%	1.6%	0.3%	0.7%	1.0%	3.5%
52	Carex heliophylia	n	P	50.0%	61.1%	75.0%	1.3%	1.370	1.0%	4 7%	2.0%	35%
52	Psoralea tenuifiora	n	Р	38.9%	27.8%	36.1%	33.37	2270	1.0 %	13%	0.3%	2.7%
52	Echinocereus vindifiorus	n	Ρ	47.2%	4/275	46.7%	1 3%	0.5%	0.3%	17%	1.3%	2.1%
52	Boutelous curtipendula	n	P	5.6%	44.4%	29.0%	76.09	0.0%	0.3%	<u> </u>		2.0%
52	Koeleria macrantha	n	P	20.5%	05.470	52.9%	11 3%	1.0%	0.7%	1.3%	0.7%	2.0%
52	Panicum virgatum	n	<u>Р</u>	16 7%	33 396	36 1%	4 7%	1.0%	1.3%	1.0%	0.3%	2.0%
52	Artemisia campesins	n	<u>P</u> _	27.8%	33 3%	36.1%	26.0%	0.6%	1.0%	0.3%	0.3%	1.8%
52			2	11 196	41 7%	27.2%	24.0%	1.3%	0.7%		0.7%	1.8%
52	Tragopogon dublus	9		22.2%	30.6%	27.8%	18.0%	0.6%		0.3%	1.7%	1.7%
52			<u>.</u>	58.3%	44.4%	44.4%	60.0%	1				1.5%
-24		'n	5	8.3%	16.7%	16.7%	18.7%	0.3%		2.0%	0.3%	1.5%
52			m	50.0%	55.6%	33.3%	23.3%	1.0%				1.4%
52			D	5.6%	19.4%	16.7%	10.0%	1.9%	0.3%	0.3%		1.3%
22	Holianthus annuus	Ī	m	13.9%	55.6%	19.4%	3.3%	1.0%	0.79			1.3%
52	Paronvchia iamesii	n	Þ	19.4%	19.4%	5.6%	22.0%	0.6%		0.7%	0.79	1.2%
52	Bromus tectorum	e	m	50.0%	19.4%	44.4%	12.7%	0.6%	0.39			1.1%
52	Salideao mollis	n	P	5.6%	19.4%	19.4%	18.79		0.79	0.3%	0.39	1.1%
52	Artemisia frigida	in	p	8.3%	11.1%	16.7%	20.7%		0.39	0.3%	0.79	1.0%
52	Opuntia macrorhiza	n	P	25.0%		8.3%	15.39	5		1.3%	0.79	<u>1.0%</u>
52	Leoidium densifiorum	e	m	22.2%	25.0%	33.3%	20.09	5			L	0.8%
52	Comandra umbeliata	In	P	8.3%	8.3%	13.9%	8.0%	0.3%	0.39	6 0.3%	0.39	6 0.8%
52	Buchice dectyloides	n	D	25.0%	5.6%	2.8%	8.09	1.0%	0.39	6	0.39	6 0.7%
52	Antennaria rosea	n	P		44.4%		1		<u> </u>		0.79	0.7%
52	Sitenion longifolium	n	u	8.3%	50.0%		16.79	6	L	<u></u>		0.6%
52	Allysum minus		m	2.8%	8.3%	16.7%	0.79	6 0.39	0.79	<u>6</u>	ļ	0.6%
52	Silene scoulerii	n	P	16.7%	22.2%	11.1%	28.09	6	+	<u></u>		0.6%
52	Boutelous hirsuta	n	P	16.7%	13.9%	16.7%	9.39	6	0.39	0.20	1 0 20	0.5%
52	Sorghastrum avenaceum	n	Р	5.6%		8.3%	11.39	<u>-</u>	_	1 0.3%	0.37	0.5%
52	Artemisia ludoviciana	n	p	8.3%	16.7%	2.8%	12.79	6	, 	+	0.5	0.5%
52	Gaillardia aristata	n	P	2.89	8.3%	25.0%	4.09	6 0.39	0.21	<u>.</u>		0.5%
52	Astragalus flexuosus	n	P	5.69	2.8%	19.49	2./	6 0.39	0.37		╂───	0.5%
52	Oxytropis lambertii	ļn	₽	5.69		8.3%	12.0	<u></u>	0.7		+	0.5%
52	Linum lewisii	In	P	5.69	8.3%	19.47			2 02	0 39		0.4%
52	Aster porteri	In	P	2.89		<u> </u>	19.7		2	+ 0.0.0	<u>' </u>	0.4%
52	Cryptanthe jamesii	10	P	13.99	8.3%	26.49	1 3.3		°	+	+	0.4%
52	Onosmodium molle	In	P		22.28	30.17	870	× 039	<u>. </u>	+		0.4%
52	Draba reptans	<u>1</u>	Im	11.19	0 <u> </u>	 	12 7	<u> </u>		0.39	6	0.4%
52	Phacelia neterophylla	+ <u>n</u>	100	1 30.09	<u> </u>	' 	0.7	<u>.</u>	1.0	*	1	0.4%
52	Rosa arkansana	10	HP.	1 2.07	16.7%	1	+		0.3	*	1	0.3%
52	Poe pratensis	ᆤ	<u> P</u>	13.00	5.69	16 79	6 67	¥.	+		1	0.3%
52		+n	111	11 19	6 2.89	5.69	6 113	*			0.3	% 0.3%
52	Aster raceus	╬	Ť	1 1 19	6 13.99	6 8.39	6 10.7	*	1			0.3%
1 22	Cirsium unculation	ť		13.99	6	22.29	6 5.3	%				0.3%
	Sveimbrium allieeimum	Ť		1 33.39	6 8.39	6	11.3	% 0.3	%			0.3%
52	Plantaco pataconica	ţ,	1 In	11.19	6 11.19	6 13.99	6 7.3	%				0.3%
1 22	Sotaria diauca	t		n	1		1.3	% 0.6	%			0.2%
1	Helienthus rigidus	t	10	19.49	8		9.3	%			0.3	% 0.2%
1 52	Camelina microcaroa	1	n in	n 8.3	6 11.19	6 5.6	\$ 2.7	%				0.2%
F	Descurainia pinnata	T	1 1	n	16.79	6			_			0.2%
H		ti		2.8	\$ 2.89	6 11.1	% 2.0	%		_	<u> </u>	0.29
	Dalea purpurea	1	n İr		16.79	6	4.0	96				0.29
1	Drymocallis fissia	h	nir				6.0	96 0.3	%			0.29
╞	Prunus bessevi	1			13.99	6 2.8	%	0.3	%	_		0.29
	Viola nuttallii	1		22.2	2.89	5.6	% 7.3	96	_		_	0.29
	Link Forb -905	T	uli	J 8.3	% 11.19	*	2.7	% 0.3	196	_		0.29
1	2 Aristida purpurea	1			2.89	6	4.(96	_		_	0.19
T	Poa sandbergii		nis			13.9	%	·	_	_		0.19
F	Sporobolus airoides		n it							0.3	%	0.19
Ĩ	Allium textile		n łi	p 11.1	% 2.8	*	6.7	79£.	_			0.19
15	Ascienias viridifiora		n li	8.3	% 2.8	%	6.	7%				0.1
Ĩ	Engeron flege/laris	1	n İi		T	11.1	% 2.0	0%				0.19
					-							

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App	ndix 3 (Colic.)				% of Qua	irats Pre	sent	T	*	Cover				-
Di di	Provide		_	Part94	July95	July96	A1194	June	95 Ju	ne96 A	wg95 /	\ug96	IMP	4
PIOU	ochron seriole	e	m	5.6%	1	2.8%	2.79	·					0.1%	4
521	Bodosnermum lacinatum		m					0.3	%				0.1%	4
52	Senecio plattensis	n	P			8.3%		<u> </u>					0.1%	4
52	Teraxacum officianale		P			5.6%		<u> </u>	_	+			0.1%	김
52	Thelesperma megapotamicum	n	P				7.39	<u>.</u>			 		0.1%	뷤
52	Corvohantha missouriensis	n	P							0.3%		0.28	0.17	뷤
52	Cerastium nuttans	n	m				<u> </u>	. 	_		+	0.376	0.17	김 -
52	Tradescantia occidentalis	n	P		8.3%		0.79	<u> </u>		+			0.11	3
52	Sisvrinchium montanum	n	P	2.8%		8.3%	0.79	<u> </u>	_+	ł			0.17	孡
52	Oxybaphus linearis	n	P	8.3%			4.79			+	+		0.19	8
52	Unk. Forb -824	U	U		5.6%			<u>, </u>	5%0				0.19	3
52	Unk. Forb -871	U	P		2.8%		9.39			+			0.19	2
52	Unk. Forb -888	u	U		L	5.6%	+	, 	_	+			0.09	ž
52	Stipe viridule	n	P				0.7	<u>}</u>					0.09	ž
52	Lomatium oriental	In	Р	2.8%			0.7	<u>}</u>					0.0	ž
52	Nothocalis cuspidata	n	P	<u> </u>			2.07	2					0.09	žI –
52	Lappula redowskii	n	m	L			2.07						0.01	ž I
52	Descurainia sophia	•	m	ļ	2.09		2.17	╩┼───	-+-				0.09	ž.
52	Chenopodium dessicatum	n	m		2.0%		07	<u>_</u>					0.0	KI -
52	Euphorbia robusta	IU	IP.	2.0%	<u> </u>		1 0.7	<u></u>	-+-				0.0	x I
52	Astragalus bisulcatus	<u>In</u>	IP.		<u> </u>		1 0.7	<u>.</u>	-+-				0.0	× I
52	Astragalus shortianus	₽	₽.	┣───	┼────		1 1 2	<u> </u>	-+-				0.0	× I
52	Dalea candida	<u>l</u>	P	 	 	<u> </u>	1 40	хI —	-+-				0.0	×
52	Linum usitatissimum	le I-	1m	 	284	<u>├───</u>	1 0.7	хi					0.0	×
52	Gaura coccinea	1-	P	+	2.070	<u> </u>	1 07	*	-				0.0	*
52	Orobanche fasciculata	<u> </u>	1P	- 2.00	<u> </u>	<u> </u>	20	zi –	-				0.0	*
52	Castilleja sessifiora	<u>n</u>	₽.	2.07	<u>'</u>	+	07	<u> </u>	-				0.0	×
52	Unk. Forb -874	10	<u>lu</u>	2.07		<u> </u>	0.7	<u>.</u>	-+				0.0	%
52	Unk. Forb -875	벁	10	2.0 %	<u>'</u>			12	2%	13.6%	12.3%	11.69	6 0.0	%
52	Bare Ground	╀	╋		+			37	2%	51.7%	51.3%	53.59	0.0	%
52	Litter	╈	+	01 79	83.3%	83.39	6 87.3	% 15	7%	11.9%	11.6%	9.69	6 17.8	%
53	Andropogon gerardi	10	12	77 29	47.2%	66.79	6 53.3	% 5	.6%	4.8%	6.3%	6.69	6 9.4	%
53	Psoralea tenumora	+n ta	12	86.19	94 49	94.49	6 61.3	% 3	.4%	2.9%	5.3%	3.09	6 7.6	%
53	Stpa comata	1	12	80.69	100.0%	100.09	6 84.7	% 12	.5%	4.5%			7.5	%
53	Bromus jeponicus			86 19	88.99	91.79	6 84.7	% 2	2%	4.2%	2.6%	2.0	6 6.7	%
53		15	15	80.69	66.7%	30.6	6 70.7	% 0	.6%	1.3%	1.3%	3.0	6 4.2	%
33	Bouteloua graciiis	÷	15	8.39	30.6%	22.2	6 26.0	% 2	2%	1.0%	1.0%	3.0	6 3.2	%
1 33	Engeron divergens	÷		16 79	6 44.4%	30.6	6 34.7	% 1	.3%	1.0%	1.0%	2.0	<u>% 3.0</u>	196
33	Ambrosia psilosiachya	╪	Ηř	22.29	6	8.3	6 17.3	% 2	.5%	1.6%	2.3%	2.0	\$ 2.9	196
33	Rosa arkarisaria	÷,		8.39	6 41.79	16.7	6 24.0	9% 7	2%	1.0%		L	2.8	1%
1 53	Adamicia compostris	f		33.39	6 44.49	69.4	\$ 24.0	1% C	3%	0.6%	0.7%	1.7	8 2.8	196
50		Ť		n 25.09	6 52.89	6 41.7	% 38.0	1% 1	.6%	1.3%		0.3	<u>% 2.</u>	× %
53				11.19	6 36.19	6 13.9	% 17.	3%		2.3%	0.7%	0.7	% 2.0	7%
1 23	Echinocereus viridifiorus	Ť	n le	72.29	6 33.39	6 77.8	% 40.0	%	.3%			0.3	<u>a 2.0</u>	씕
1	Bouteloua curtipendula	-h	T.	11.19	6 41.79	6 36.1	% 2.	7% ().6%		1.79		1-1-	<u> </u>
1	Sitenion longifalium	1	n li	33.39	6 75.09	6 8.3	% 35.	3% ().6%		0.3%	<u>+</u>		
57	Lepidium densifiorum	1	e Ir	n <u>50.0</u> 4	6 36.19	6 52.8	% 37.	3% (0.3%			╇╌╤╤		
53	Sysimbrium altissimum	1	9 6	n 27.8°	\$ 38.99	6 2.8	% 36.	7%	1.9%		+	<u>, 0.3</u>	<u> 위 분</u>	쯾
53	Poa compressa	1		16.7	X 6	25.0	% 21.	3%	0.3%	0.39	1.39	빅	+	띎
57	Allysum minus	1	e I	n 2.8	6 16.79	6 50.0	% 3.	3% (0.6%	0.69		, 		씚
5	Aster fakatus		n II	19.4	ж	5.6	% 8.	0%	0.3%	0.39	<u>6 1.39</u>			띎
5	Poa pratensis				8.39	6 8.3	%		0.6%	1.09	┡ <u>┙</u>	<u>, l. 0./</u>	계 있	쯾
5	Schizachyrium scoparium		n]i	2.8	5 16.7	5 13.9	% 5.	3%	0.6%		1.09	빅	-+ %	緩
5	Koeleria macrantha		n	27.8	\$ 8.3	6 16.7	% 27.	3%	0.6%			+		諁
5	3 Yucca glauca	Τ	n	5.6	%	8.3	% <u>6</u>	0%		0.39	0.3		<u>~ ~</u>	畿
5	3 Heterotheca villosa		n	p 2.8	% 8.3	% 19.4	96 24	7%	0.3%	<u> </u>	0.3		-+	褑
5	Buchice dactyloides	T	n	р	33.3	%	8	7%	0.6%					'~~
5	3 Liatris punctata		n	p 2.8	% 8.3	% 5.6	5% 10	7%	0.3%	0.39	<u>0.3</u>	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	;~~~
5	3 Plantago patagonica		n	m 2.8	% 19.4	% 16.7	% 18	7%		ļ		+	<u> </u>	.1 70 694
5	3 Vulpia octofiora		n	m 5.6	% 13.9	% 19.4	1% 5	3%	0.6%	 			<u> </u>	500
5	3 Bouteloua hirsuta		n	p 2.8	% 5.6	% 30.	5% 2	.7%					- - %	52
5	3 Cirsium unduletum		n	m 13.9	% 16.7	% 5.0	5% 11	.3%	0.6%	 			<u> </u>	
5	3 Descurainia pinnata		n	m <u>33.</u> 3	% 19.4	%	18	.0%					- - %	54
5	3 Monarda pectinata		n	m 13.9	<u>% 11.1</u>	% 16 .	/% 7	-3%	0.3%			+		5%
5	3 Phyla cuneifolia		n	P			_	-			~		<u>~</u>	144
5	3 Agropyron smithii		n	P			6	.0%	0.6%	0.6	<u>~</u>		796 7	44
5	3 Artemisia ludoviciana		n	P	_	~ -			0.6%	·		<u> </u>	~~ +~?	144
F	al Comoline minmente	_		m	2.8	36 8.	з%ы 18	.0%)		1	1	1		

÷.

App	pendix 3 (Cont.)		ſ			% of Que	drats I	Tese	nt		%	Cover				1
	1 Constant		-1	Part	94	July95	July9	6 A	194	June	95 Ju	ine96 /	lug95	Aug	96 IMH	294
102	A star porteri	n	P		2.8%	2.8%			8.0%		<u>_</u>	+	0.3	<u>~</u>	-+-	3%
35	Silene antimhina	6	m			11.1%		_	4.7%	0.6	20	+		+	-+	0.3%
53	Eriogonum alatum	n	ρ			2.8%	16.	/%	4./%			0.3%				0.3%
53	Unk, Forb -931	u	u			16.7%	<u>}</u>		6 74		-+-	0.0 ~	0.3	8		2%
53	Aristida purpurea	n	P		8.3%	E 694	╂	-+-	0.7%				0.3	%		2%
53	Hymenopappus filitolius	n	P			5.07		396	0.1 %	0.	3%					0.2%
53	3 Taraxacum officianale	•	P_	_	9.2%	5.6%		~	5.3%	0.	3%	1				0.2%
53	3 Draba reptans	10	m		0.370	8.39	2	8%	4.7%							0.2%
53	3 Opuntia macromiza	fu la	lp-	┼	2.8%			-	18.0%							0.2%
53	3 Silene scouleni	造	12-	┢╼╍	2.8%		5.	6%	2.7%						.3%	0.2%
53	3 Dalea purpurea	ln.	15	+		11.19	5					0.3%				0.270
53		In	Б						3.39				0.3	20		0.2%
1 22	3 Junk Forth -874	U	u				11.	.1%	1.39	<u> </u>				-+		01%
57	3 Muhlenbergia wrightii	În	P				5	.6%		–						0.1%
5	3 Sorahastrum avenaceum	n	P			L	- 8	.3%		+	<u></u>			-+-		0.1%
5	3 Sporobolus asper	n	P			ļ					.0.2	0.3%		-+-		0.1%
5	3 Sporobolus cryptandrus	1	<u>IP</u>	<u> </u>		- E 69		+		+	-+		<u>├</u> ──	-+-		0.1%
5	3 Antennaria rosea	10	P	+-	2 000	5.07		8%	1.39	دا –	-+					0.1%
5	3 Gaillardia aristata	뿌	P	+-	2.0%	839	<u>st - </u>		1.39	ا	+					0.1%
5	3 Grindelia squarrosa	4	1	4-					1.39	6 0	3%					0.1%
5	3 Helianthus rigidus	- l'	ΉĔ	+-		1	+		2.0	6					0.3%	0.1%
5	3 Thelesperma megapotamicum	+	냵	+		1	1 8	3.3%					<u> </u>	<u> </u>	 	0.176
15	3 Cryptanma Virgata	ť		+		1						0.3%	4 <u>-</u> -	<u> </u>	+	0.170
5	3 Onosmodium mole	ť		+-		+	2	2.8%	5.3	‰					-+	0.170
5	S Lesquerella montaria	ť				11.1	%		1.3	*				_+-		0.1%
15	Chenopoolum dessicalum	ť	nlo			1	T			\square	<u>).3%</u>		 +	-+-		0.1%
무	Astragalus actorgen	T				2.8	%		2.0	<u>% </u>			╂──			0.1%
H			nip					1	4.0	*			╂───	-+-		0.1%
	53 Domocallis fissia	T	n Ip						 		1.070		╉──		+	0.1%
H	53 Unk. Forb -888		น น	л I		<u> </u>	4-4	8.3%					+	-+-		0.0%
	53 Juncus arcticus		nļr	2					0.1	~			+	-+-		0.0%
1	53 Hordeum jubatum	_	<u>n (</u>	1			-+		111	a l-						0.0%
	53 Allium textile	_	<u>n i</u> f	2	2 99	_ 			20	si -						0.0%
Ξ	53 Asclepias speciosa	_		2	2.01	28	196		+	-						0.0%
	53 Gutierrezia sarothrae	-		<u>+</u>					0.7	196						0.0%
Ŀ	53 Lactuca sernola	-					<u> </u>		0.7	1%						0.0%
Ľ	53 Nothocalis cuspicera	_		mt-		2.8	3%						_	<u> </u>		0.0%
H	53 Podospermum lacinadim	-	n		5.6	*			3.3	3%			4			0.0%
Н	53 Cryptantila jamesti		n	51					1.	3%		┣━━━	+	-+		0.0%
H	53 Tradescantia occidentalis		n	ρŢ		2.	8%		+			┫────				0.0%
H	53 Evolutus nutalianus		n	p					1.	3%		╂		+		0.0%
F	53 Astragalus tridactylicus	_	n	p		2.	8%		+	304		+		+		0.0%
H	53 Erodium cicutarium	_	0	m			-+-		$+\frac{1}{2}$	096		+	+			0.0%
F	53 Phacelia heterophylla		n	m			-+-		+	7%		+	-			0.0%
F	53 Oxybaphus linearis		In	P		-+	-+-		1 6	7%		1				0.0%
Γ	53 Calylophus serrulata		臣	<u>P</u>	·····	-+	-+-		1 2	0%			T			0.0%
	53 Gaura coccinea			片		- 2	8%		1							0.0%
	53 Delphinium viresens		片	Ľ†	28	196			0	7%						0.0%
L	53 Physans sp.		In	БŤ		2	.8%									0.0%
H	53 Viola nuttauli	_	μ̈́	tu l					2	.0%			_			0.0%
H	SIUNK. FOID -570		u	lu l					2	.0%		_	-+-			0.0%
ŀ	531 lok Forb -878	_	u	U					10	.7%		+		0.24	8.64	0.0%
ł	53 Bare Ground		Г								7.89		270	0.370	52 09	0.0%
ł	53 Litter		Ι							 +	22.9	2 22.		65%	10.29	10.5%
ł	54 Pog pratensis		•	P	36.	1% 75	.0%	85.1	2 11	100	9.0	<u>x 2</u>	<u>s</u>	11.7%	5.39	8.8%
ł	54 Andropogon gerardii	_	n	P	75.	0% 100	0%	15.0	20 42		2.3	x 5	396	1.6%	3.09	6.8%
	54 Plantago lanceolata	_	le	P	97.	2% 8	3%	11.0		394	23	$\frac{3}{8}$ $\frac{3}{3}$	6%	2.0%	1.79	6 5.6%
	54 Cichorium intybus		e	P	<u> </u>	370 0	1.070	16.7	100 2	70	43	8 3	6%	2.6%	3.09	6 5.5%
	54 Juncus arcticus		<u> n</u>	<u>IP</u>	33	<u></u>	7 894	11 1	8 3	5.7%	6.4	% 3	6%	0.3%	0.79	6 4.7%
	54 Poa compresse	_	+	<u> P</u> -	- <u>-</u>	<u>v 70 - 2</u>			╧┼ᢟ		1.3	% 1	0%	5.5%	7.3	6 4.1%
	54 Spertine pectinate	_	-#		-	396 3	396	111	196 4	2.7%				5.9%	3.6	6 3.3%
	54 Agrostis gigantee		-tª	15	<u>†</u> ••		8,3%	13.9	9% 2	0.0%	1.0	% 6	.0%	3.3%	0.3	6 3.3%
	54 Phieum pratense		-#		1 11	.1% 3	6.1%	16.	7% 2	2.0%	0.7	% 3	.0%	2.9%	1.7	3.2%
	54/restuce preterists	-	-	1 D	41	.7% 4	4.4%	13.	9% 4	0.0%	0.7	7% 1	.3%	2.0%	1.3	2.8%
	· · · · · · · · · · · · · · · · · · ·			15			the second second second second second second second second second second second second second second second s	the second second second second second second second second second second second second second second second se								

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Арр	endix 3 (Coal)		1		% of Our	drats Pres	ent		% Cover	· · · · · · · · · · · · · · · · · · ·		•
أمرينا	Cancint	Т	-	Part94	July95	July96	A1194	June95	June96	Aug95	Aug96	IMP
100	Disothus ameria	•	D	63.9%	61.1%	66.7%	32.0%		0.3%			2.3%
54	Trifolium pratense		p	22.2%	27.8%	38.9%	12.0%	0.3%	2.0%	0.3%	1.0%	2.1%
54	Bouteloua gracilis	n	p	22.2%	25.0%	16.7%	15.3%	1.0%	0.3%	2.6%	0.7%	2.0%
54	Dactylis glomerata	0	P	11.1%	38.9%	27.8%	6.7%	0.7%	2.0%	1.3%		2.0%
54	Sorghastrum avenaceum	n	P	11.1%	25.0%	8.3%	14.7%	1.0%	0.7%	2.0%	1.3%	2.0%
54	Carax nebrascensis	n	P				20.0%	1.076	0.376	0.2%	0.7%	1.0%
54	Ambrosia psilostachya	n	Ρ	58.3%	47.2%	50.0%	14./%	2 394		2.0%	1 396	1.3 %
54	Carex sp.	u	Ρ	07.00	2.8%	20.69	11 200	0.7%	0.7%	0.7%	1.0 %	1.5%
54	Convolvulus arvensis	•	2	27.8%	27.0%	30.0%	20.0%	0.7 %	17%	0.7%	0.3%	1.4%
54	Erigeron flagellans	n	<u>P</u> _	11.170	16 7%	30.070	12 7%	0.3%	1.0%	0.0 %	0.3%	1.4%
54	Acetosella vulgans	•	P.	30.070	A1 7%	A1 7%	1 3%	0.3%	0.3%			1.3%
54	Bromus japonicus		m		41.7 /0	41.7 %	16.7%	1.3%	1.7%			1.2%
54	Carex supera		2				10.0%		0.3%	2.0%	1.7%	1.2%
54	Eleochans ellipidas	5	5		13.9%	11.1%	10.7%		0.3%	0.3%	1.3%	1.0%
34	Sobrachynum scoperium	n	D D	25.0%	16.7%		24.0%	1.0%				1.0%
24	Circium anansa	e	D	5.6%	11.1%		32.7%		0.3%	1.0%		1.0%
54	Tarayacum officianale	e	P		16.7%	27.8%	12.0%			0.7%	0.3%	1.0%
54	Dales candide	n	D	16.7%	30.6%	19.4%	9.3%			0.3%		0.9%
54	Psoralea tenuiflora	n	p	47.2%	16.7%	11.1%	17.3%		0.3%	0.3%	0.3%	0.9%
54	Allysum minus	•	Πì	30.6%	8.3%	36.1%	10.0%			<u> </u>	<u> </u>	0.8%
54	Carex heliophylla	n	Ρ	13.9%	8.3%	16.7%	5.3%		0.3%	0.7%	 	0.7%
54	Aster falcatus	n	P	25.0%	19.4%	11.1%	8.0%	0.3%		0.3%	·	0.7%
54	Unk, Forb -932	u	U		33.3%	16.7%						0.7%
54	Medicago lupulina	•	m	8.3%		16.7%	8.7%		0.7%		0.3%	0.5%
54	Lupinus argenteus	n	Р	8.3%	5.6%	16.7%	3.3%		0.7%		+	0.5%
54	Oxalis dillenii	n	m	2.8%	11.1%	27.8%	0.7%		0.20	0.79		0.5%
54	Agropyron smithii	n	р		2.8%	8.3%	3.3%	1 000	0.37	0.7%	' 	0.4%
54	Calamagrostis canadensis	n	P	 	5.00		E 29	1.070	0.394	0.7%	. 	0.4%
54	Aster porteri	n	P	10.48	0.0%	44.496	0.3%		0.5 %	0.1 4		0.4%
54	Tragopogon dubius	9	m	19.4%	0.370	11.170	0.3%	0.3%	0.3%	<u>.</u>		0.4%
54	Prunella vulgans	<u>n</u>	P		<u> </u>		3.3 #	0.0 ~	1.0%			0.3%
54	Carex lanuginosa	<u>n</u>	Ρ.		2.8%	5.6%	0.7%	╂────	0.7%			0.3%
54		10	<u>P</u>	16 7%	2.0%	11 1%	5.3%		<u> </u>			0.3%
124		1	ľ	<u> </u>		1	14.0%	1	†	0.3%	5	0.3%
24	Fippochaele laevigala		m		2.8%	5.6%	2.0%	0.3%	1			0.3%
54	Carey brevior	ľ	0		8.3%		4.0%					0.2%
1-54	Agrovron renens	e	6	2.8%			9.3%					0.2%
150	Heterotheca villosa	În	6		1		2.0%	0.3%				0.2%
1	I epicium campestre		Īm	19.4%	5.6%		7.3%					0.2%
54	Astracelus shortienus	In	D	1	1	2.8%			0.79	6		0.2%
54	Melilotus alba	e	m		8.3%		4.0%	,			1	0.2%
54	Rose arkansene	n	P				4.0%		1	0.79	6	0.2%
54	Aristida purpurea	n	P				<u> </u>		_	+	0.39	0.1%
54	Bouteloue curtipendula	n	P				8.0%					0.1%
54	Bromus tectorum	•	m		5.6%				4	4		0.1%
54	Stipe comete	n	₽.			8.3%			╃───	+	+	
54	Apocynum sibericum	0	₽			+	3.3%		+	+		0.1%
54	Artemisia frigida	n	P	<u> </u>	5.6%		1 1 204		+	+	+	0.1%
54	Carduus nuttans	0	m	<u> </u>	+	2.0%	<u> 1.2%</u>	<u>'</u>		+		0.1%
54	Grindelia squarrosa	10	Im	2 00		0.37	4 00	. 	+	+		0.1%
154	Camelina microcarpa	10	1	2.09	2 2 8 4		5 39	<u>;</u>	+	1	+	0.1%
15	Opunta macromize	17	먇		2.07	5.69	1 39	1	+	1	+	0.1%
5		ᆤ	벁	5.69	2.89	5.69	1 39		-1	+		0.1%
	I I nemopsis avancarpa	#	분	+	2.0 4	<u> </u>	6.79	6	1	1		0.1%
12		╞	뿥	+		+	1.39	6	0.3	*	1	0.1%
F		╞	ド		5.69	6	1	1	1			0.1%
12	Verhene hastata	╬	ľ	1	1	+	3.39	6	1			0.1%
	Verbens so		1	1	1	+	6.09	6		1		0.1%
F	A Seimus acutus		t	1	+	1	1.39	6				0.0%
Ť	4 Juncus butonius	Tn	1n	1	2.89	6	2.09	6				0.0%
Ť	A Juncus longistylis	Tn			1		0.79	6				0.0%
Ť	4 Setaria glauca	10	n	n	1		0.7	6				0.0%
15	4 Unk. Grass - 182	lu	lu	L			2.09	6				0.0%
5	4 Alisma triviale	In	P				0.7	6			_	0.0%
5	4 Asclepies speciose	T	P				2.79	6				0.0%
1 E	A Ademisia compositis	Īn	In				0.79	6	1		I	0.0%

Plot			1		K of Ours	drats Pres	ent		6 Cove			
100	Deceipe .		_	DartQ4	Julv95	Julv96	Aliga	June95	June96	Aug95	Aug96	MP
_	Cimium undulatum	n	m	1 and 1			0.7%	. 1				0.0%
54	Circium vulcare	•	m			-	1.3%					0.0%
2 2	Gutierrezia sarothrae	'n	D				2.0%					0.0%
5	Liatris punctata	n	D	2.8%			2.0%					0.0%
54	Senecio plattensis	n	p				1.3%					0.0%
54	Lepidium densifiorum	0	m			2.8%						0.0%
54	Echinocereus viridifiorus	n	Ρ				2.7%					0.0%
54	Opuntia fragilis	n	р		2.8%							0.0%
54	Tritolium hybribum	•	U				0.7%					0.0%
54	Polygonum sawatchense	n	m		2.8%							0.0%
54	Ranunculus macounii	n	P				0.7%					0.0%
54	Unk. Forb -880	U	็บ				0.7%		_			0.0%
54	Unk. Forb -881	U	u				1.3%			<u> </u>		0.0%
54	Unk. Forb -882	u	<u>u</u>				0.7%					0.0%
54	Unk. Forb -883	u	U.	L			0.7%	40.49	5 28	10.7%	5.6%	0.0%
54	Bare Ground		ļ	L				10.470	29.1%	24.4%	45 2%	0.0%
54	Litter		ļ		04 70	00.49	02.20	43.070	30.170	24.48	34%	10.2%
55	Andropogon gerardii	n	Ρ	88.9%	91.7%	86.1%	63.370	2.070	5 3%	4 396	1.6%	7.5%
55	Panicum virgatum	n	IP.	8.3%	50.0%	30.0%	52.070	2.0%	1 28	534	2.5%	7.4%
55	Bouteloua gracilis	n	P.	80.6%	09.4%	10.0%	20./70	2.070	3 204	4 194	1.3%	6.6%
55	Engeron flagellaris	n	IP.	20.0%	41./70	25.0%	40.770	3.28	1 7%	2.6%	16%	5.6%
55	Poa compressa	e	P	33.3%	30,9%	20.0%	43.370	3.370	7 794	3.6%	49.0	4.7%
55	Tragia ramosa	n	IP_	22.0%	44 71	61 10	40.0%	1.0%	2.5	0.3%	20.0%	3.3%
55	Stipe comate	IU	₽.	38.9%	41./%	22.28	40.070	1.070	1.0%	2.04	1 3%	3.2%
55	Psoralea tenuifiora	n	IP.	30.6%	50.0%	33.370 62.00	44 04		1 0%	0.7%	1.3%	3.0%
55	Carex heliophylla	n	Į₽_	20.0%	30.0%	00.970	10.3%	1.0%	0.7%	0.7%	1.9%	2.9%
55	Bouteloua curtipendula	In	IP.	30.6%	30.070	26.1%	13.3%	2 3 96	1 39	0.3%	1.3%	2.9%
55	Poe pratensis	e	P.		3.070	30.170	734	2.5 %	3 34	0.3%	1	2.4%
55	Koeleria macrantha	n	Į₽_	8.3%	44.470	22 28	24.0%	1 7%	0.3%		0.3%	2.3%
55	Opuntia mecrorhiza	In	P	22.2%	44.470	22.270	47 3%	1 396	0.3%	0.3%	0.3%	2.1%
55	Schizechyrium scoperium	n	P.	4/2%	26.4%	89.004	24 7%	0.7%	1 09	1 0.0 7		2.1%
55	Allysum minus	e	m	61.1%	57.994	52.9%	24.1 B	0.7.0		4		1.8%
55	Tragopogon dubius	e	m	63.970	16 794	25.0%	28.7%	0.7%	0.79	0.7%	0.3%	1.8%
55	Acetosella vulgaris	10	₽.	47.294	25.0%	20.6%	25.7%	0.1 %	0.1 4	0.39	0.9%	1.6%
55	Artemisia frigida	10	P	91.27	23.07	52.8%	18.0%	0.3%	1 09			1.5%
55	Bromus japonicus	P	Im	47.0%	35.3 7	27.8%	25 396		0.39	0.79	<u>.</u>	1.5%
55	Dalea purpurea	10	P	91.27	5 694	13.9%	2.0%	0.3%	2.09	0.39	0.3%	1.3%
5	Aster porteri	12	P	2.20	27.89	27.8%	4 7%	0.0 1	0.39		0.9%	1.3%
55	Gutierrezia sarotrirae	10	P	12.0%	21.0 %	11 19	14 7%	0.7%		·	0.9%	1.2%
5	Buchloe dectyloides	ł?	HP.	25 19	22.29	27.29	29.3%	1	0.79	6	0.39	1.2%
5	Sorghastrum avenaceum	ť	IP.	30.17	16.7%	1949	16.7%	1		0.39	6 0.69	1.1%
5	Paronychia jamesii	Ŧ.	P	12.09	9.39	19.49	15.39	0.3%	0.79	6 0.39	6	1.0%
15	Aster faicatus	Ŧ.	ΗĒ	8 39	36.19	22.29	13.39	1	0.39	6		0.9%
5	Liams punctata	ť	12	2.89	11 19	11 19	23.39	1	0.79	6	0.39	0.9%
5		ť	12	2.07	16.79	25.0%	26.0%	1	t- <u></u>	1	0.39	6 0.9%
<u>ال</u>	Sinypencum penoratum	ť	10	27.07	19 49	13.99	23.39	0.3%	1	0.39	6	0.99
15	o rainum parvmorum	ť	쁥	27 89	8 39	27.89	5 11.39	5	0.39	6	0.39	6 0.89
L ²	Cichonium interio	ť	Ĩ	5.69	5.69	8.39	2.09	0.7%	0.39	6 0.3	6	0.89
	Sichonum Intybus	ŧ.	H۲	16 79	22.29	22.29	12.09	5	0.39	6	1	0.79
15		ť	Ĩ	25.09	25.09	6 41.79	6 8.79	5	1	1	1	0.79
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5		1.	۰ie	1949	1 Z.07		0; 3.37			-	_	
55	5 Aristida purpurea	+	<u> </u> P	19.49	11.19	6 33.39	6 18.79	6	1		1	0.69
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10000	5 Aristida purpurea 5 Camelina microcarpa 5 Eriogonum alatum			19.49 1 27.89 11.19 8 39	11.19 16.79	6 <u>33.39</u> 6 <u>2.89</u> 33.39	6 <u>18.79</u> 6 10.79 6 2.79	6		0.7	%	0.69
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App	endio	c 3 (Cont.)		٦			6 of Outa	drats	Prese	nt		<u>%C</u>	over			11140	7
		1	- 7	-+	Dort	M T	Lub 95	July	6 A	194	June	95 June	96 Aug	95	AUGH		
Plot	Spec	ies	_	_	rail	-+	diyoo_	2	8%	1.3%			0	.3%			3
5	Spor	obolus asper	n	<u>P</u>						2.7%	0.3	96				0.2	2
3	Cini	um floodmanii	n	Р		0.0%	E 694	44	18	4 7%						02	196
3	Cast		•	m	8	3.3%	5.6%	11.		9.17	<u>'</u>		_			0.2	2%
55	Lact		2	D	1	2.8%	13.9%	5	.6%	0.7%	4		204			1 0.2	256
55	Rati	bida columniera		5		T	11.1%	2	.8%				.370			-	2
55	Ono	smodium molie	-	<u>P</u>		+	8.3%	1 11	.1%	2.0%	<u> </u>						
55	Lepi	dium campestre	•			- 49/	5 6%	5	6%	6.09	1						~~
22	Cha	nonoclium dessicatum	n	m	1	1.170	5.0%	1 44	1 1	3 39					1	0.	2%
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8	EUP	HOTDIB TOUGHT	'n	D		2.8%		8	1.3%	0.77	<u> </u>	<u> </u>			t	0	2%
55	Ast	agalus snorvanus		10			5.6%			12.09	6	_			┢───	-+ 6	24
55	Dak	e candida	1.	12-				8	3.3%			0	3%		∔	-+	<u></u>
55	Play	ntago lanceolata	1°	1 <u>P</u>	_	0.204		19	4%	3.39	6					<u> </u>	
Ĩ	100	mocallis fissia	n	IP_	1	8.3%		<u>+-'`</u>		2 30	2				T	0	1%
Ĩ	10.7	to love birsute	In	P	1		8.37	°		0.0	<u>~</u>	-+	3%		T	0	.1%
\simeq	BOL		1n	D					2.8%						+		1%
5	Spa	wobolus cryptalitates	te	The second	1		11.19	6			4_				+	-+	196
55	5 Alfi	um textile	12	12	+	28%				5.3	%				+	<u> - </u>	
5	5 Asc	lepias pumila	10	LP.	+	2.0 %	5.69		2 8%								<u>.170</u>
	An	ennaria rosea	ļn	P			0.07		E COL	0.7	× 1					0	.1%
F=		minin compostris	In	P		2.8%	8.39	ᄡᅳ	0.070	44.0	zi –				T		.1%
La			Tr	To		25.0%				11.3	~				+	-1 0	1%
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5	5 Ga	illardia aristata	+ť	٣	+		1	1	1.1%	2.7	%				+	<u> </u>	
Ē	5110	squerella montana	щ	<u>110</u>	+-	4 4 4 4	+	- `	8 79	60	%	T					<u>-12</u>
F	il ci	untia fracilis	1	۱P	1	11.1%	4								1).1%
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5	5 0	rastum arvense	-ť	+	+-		1						0.32		└ ╋──	-+-	194
5	SIT	descantia occidentalis	4	110		44.404	.t		2.8%	2.7	196				<u> </u>		<u></u>
1 F	510	molvulus arvensis	1	e ip	4-	11.17	4	-+		2 2 2	96		0.3%				0.1%
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Ŀ	<u>s la</u>	AUGINE G WINDONING	-1	nle	1	8.39	61 :		_	2.0	21-		+				0.0%
	55 M	usineon avancatum	┥	֠	1	_				2.0	7%				-+		0.0%
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E	20136			nlt	n	2.89	6			<u>v.</u>							0.0%
L	55 D	raba replans			_	2.89	6	1	2.8%	0.	7%		+		-+		0.0%
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ŀ	2010	Lak Each 932		U	U				5.67	6		00.00	20.0%	31	0%	30.0%	0.0%
L	201	JAK. FOID -SUZ	_									38.970	20.9%	1 201	24	46.6%	0.0%
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- 1	561/	Poa pratensis		₽	만누	123.6		24	22.20	X A	3%	6.6%	6.3%	8.	8%	11.5%	11.070
ŀ	122	Andropogon gerardii		n	IP L	36.1	70 44	<u>4 8</u>	44.4	\overline{z}	794	5 6%	2.0%	7.	.1%	3.7%	7.6%
- F	- 201				IP T		41	./%	44.4	레스	;; ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.0 ~	4 694	11	6%	3.4%	7.0%
ļ	- 201/			e	pT	22.2	2% 55	.6%	55.6	70 47	(.170	2.070	4.0 %	+ - +	ox I	14%	6.5%
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	56	Plantago lanceolata		╌┼╴	t <u>r</u> t	- 22 -	396 52	.8%	77.8	% 3	8.7%	1.3%	3.0%	4-1	150	<u></u>	- 2.5 %
	561	Juncus arcticus		10	먣	44	702 7	894	33.3	% 2	0.0%	1.6%		5	2%	2.1%	3.07
1	56	Spartina pectinata		_In	IP I	41.		000	10 4	a 1	8.0%	1.3%	0.79	6 2	.6%	2.0%	3.4%
	1	Boutelous gracilis		n	IP 1	36.	170 38	100	13.4	ől –	3 2021	0.394	1 39	6 2	3%	1.0%	3.4%
	끮	Cimium anansa		10	P	47.	2% 33	5.3%	38.9	2	2.270	0.0.0	<u> </u>		34	1.4%	3.3%
	20		-	1.	1.1		30).6%				0.5%	+	╓	~~+	0.7%	2 0%
	56	Carex sp.		Ť		19	4% 19	.4%	27.8	96 1	8.7%	0.3%	1.09	9		0.170	4 00
	56	Aster faicatus		-1º	121	40	70/ 10	144	13 0	3% 2	4.0%	0.7%	1.09	6 (1.3%	0.3%	1.070
	56	Psoralea tenuifiora		П	IP.	10.		7 0 2	10		6 7%	1.39	0.39	6			1.8%
	12	Bromus japonicus		1	m	22	270 2	1.070	19.4		5.2 2	0.20	0.3	1	0.6%	1.0%	1.6%
	上쯾	Opering winter im		1	1 P	16	.7%	5.6%	11.1	170 4	3.370	10.07	4 02	-+-			1.5%
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	56	Dianthus armena	-	-#			296 1	6.7%	22	2%	17.3%		0.3	*	0.5%		
	56	Agropyron smithii	_	1	10	⊢		0.40	43	oo.1	8 0%	r	1 1.0	%		0.7%	1.49
	1 22	Stina comata		_]1	n p	5	0.076 1	3.470	1.3.	 +	0.0 %	0.20	d	-1-		1.4%	1.29
	138	Bose efferrant		T	nip	19	.4%	2.8%	22.	270	0.076	1 0.37	; 	~ †		L	1.09
	56	TOSE EINEINEINE		-ť				5.6%	8.	3%	4.0%	1.39	b <u>U./</u>	~		0.20	1 000
	56	Ins missounensis		-+	<u>- -</u>		694 4	6.7%	2	8%	5.3%	0.7	6			10.3%	1 0.07
	56	Schizachynum scoparium		_	n Ib	<u> </u>		4 4 94		394	19 3%	T					1 0.89
	56	Tracopogon dubius			• m	1 11	.170	1.17	+		0.7%	1	03	196			0.79
	1 ²⁰	Carey heliophylla			np		1	6.7%	11.	170	0.7%	<u>'</u>	- 		1 394	1	0.7
				-1	niu	T		6.7%					+	<u>_</u>	0,00	1 0 20	1 07
	56	Eleochans ellipuca			<u> </u>	+	3 396	11.1%	8	.3%	3.3%		1 03	7.6	_	1007	+
	5	Buchloe dectyloides	_	_	<u>u 16</u>	╞╼╍╹		11 40	1			0.3	% 0.3	3%	0.6%	<u></u>	0.0%
		10			nlp	1		11.17	<u> </u>								

Арр	endix 3 (Colic.)		1			% of Qua	drats Pre	sent			% Cove	r				
<u> </u>	Conciet			Par	194	July95	July96	A1194	J	une95	June96	Aug	<u>35 Au</u>	<u>996 i</u>	0.6%	
Piog	Lenidium campestre	•	m		11.1%	16.7%	11.1%	4.0	2%					+	0.6%	
56			P			2.8%	19.4%	4.0	2%	0.3%		┣		0.7%	0.5%	
-56	Agrostis gigantea	0	Ρ			13.9%		2.7	7%		1.00	┣			0.5%	
56	Phleum pratense	0	Ρ				2.8%	2.0	<u>7%</u>		1.0%	10	3%	1.0%	0.5%	
56	Sorghastrum avenaceum	n	р			8.3%			-			1 8	3%	0.3%	0.5%	
56	Liatris punctata	n	P		8.3%	2.8%	8.3%	- 3.	370				6%	0.3%	0.5%	1
56	Lupinus argenteus	n	P	L_		11.1%	ļ		- 14			0	6%	0.3%	0.4%	l l
56	Muhlenbergia racemosa	n	P	 		5.0%			294						0.4%	ł
56	Alfium textile	n	P	<u> </u>	11.1%	16.7%	├	5	39			1			0.4%	l
56	Camelina microcarpa		m	_	19.470	5.6%	<u>+</u>	┝┈		0.3%		T		0.3%	0.3%	1
56	Ambrosia psilostachya	In	P.	┢		3.0 %		1 4	0%			0	.3%	0.3%	0.3%	
56	Artemisia ludoviciana	10	P.	╂			13.99	t ö	7%						0.3%	
56	Taraxacum officianale	1	IP.	-			2.89	4	7%		0.39				0.3%	
56	Opuntia macromiza	10	뚢	╋			1				0.39	6 0	.3%		0.2%	4
56		造	11	┼─	8.3%	2.8%	<u>, </u>	2	.0%					0.3%	0.2%	4
56	Sitanion longilolium	In	10	+-		11.1%					L	4			0.270	1
56		1n	10	╀╴	13.9%	2.8%	2.89	6 3	.3%		L	4			0.2%	ł
1 30	Arter porteri	Ť'n	Þ	\mathbf{T}		5.6%	2.89	6			 	+			0.270	1
20	Enema fiecellaris	In	P	Г		8.39	6	11	.3%			+-	+-		0.270	1
	Helianthus pumilus	In	P	Т		11.19	6	-				+			0.2%	1
Ha	Hippochaete laevigata	n	Π				2.89	<u>6 4</u>	.7%		╂	+-	-+		0.2%	1
13	Unk, Forb -932	U	u	L		8.39	6	, 			+	- <u> </u>			0.2%	1
156	Unk, Forb -965	U	U	T		1	8.39	₽			1 13	<u>_</u> †	-+		0.1%	1
	Carex stipata	ſ	P	Ţ		+	, 			0.36	1_0.0	~ -	+		0.1%	5
56	Juncus longistylis	1	P			2.89	<u> </u>	+	70	0.07		+-	+		0.1%	5
56	Aristida purpurea	r	1P	-	2.89	<u> </u>		-			+	+			0.19	5
56	Dectytis glomerata	4	P	4			2.0	₽			+	+-		0.3%	0.19	•
56	Asclepias engelmanniana	1	ιP	4			28		1.0%						0.19	6
5	Heterotheca villosa		פןי	-	2.87	<u></u>	- 2.0		3.3%						0.19	5
56	Allysum minus	4		<u>n</u>		28	<u>. </u>	╧							0.19	5
5	6 Opuntia fragilis	-#	<u>n le</u>	4		5.6	*	+-							0.19	6
5	Silene antimina	-				2.8	8	-							0.19	6
50	6 Chenopodium dessicatum	-ť							2.0%				0.3%		0.17	<u></u>
5	Convorvulus arvensis	-f		÷t		2.8	%					_			0.17	9
5		1	n tr	Ħ		2.8	%									-
	6 Gaura coccinea	-	n li	m		2.8	%		0.7%	1	<u> </u>	_			1 0.13	읡
	6 Plantago paragonos	1	n li	5	2.8	5.6	%		0.7%	·		_			0.1	
무	6 Comencina umbellata	1	n İ	P			2.8	%	0.7%		. 	_			1 0 1	3
15	61 lok Forb-920		u	u						0.3	»	-+-			00	Ξ.
15	6 Dicanthelium oligosanthes		n	m				_	0.7%						0.0	รีไ
5	6 Koeleria macrantha		n	P					2.0%			-+-			0.0	3
15	6 Apocynum sibericum		•	P					0./7	<u>}</u>					0.0	36
F	6 Gutierrezia sarothrae		n	Рļ				-+-	2.07	2		-+-			0.0	3
	6 Lesquerella montana		n	u				-+-	1 20	<u>.</u>		-+-			0.0	1
15	6 Echinocereus viridifiorus		n	₽∔			+	-+-	1 20	ž i —	-+				0.0	1%
15	6 Dales purpures		n	<u> </u>				-+-	0.79	6		-+		· · · · ·	0.0	1%
	6 Oxytropis lambertii			<u>P</u>		<u>~</u>		-+-	0.79	<u>i</u>		-			0.0	1%
	6 Trifolium repens			러	2.0	~		-+	1.39	6					0.0	7%
	56 Oxalis dillenii		뿨	<u> </u>		-+		-+-	2.09	6					0.0	7%
1	56 Unk. Forb -886	_	쒸	۳				-+		6.6	5% 3.	3%	5.2%	5.1	% 0.0	7%
E	56 Bare Ground		H	⊢┨				+		42.4	4% 59	3%	43.2%	43.9	% 0.0	7%
	56 Litter		te		88	36 80	6% 94	4%	73.3	8 11.	7% 9	.3%	8.5%	13.5	% 17.	5%
Ľ	57 Poa praterisis		ĥ	lf	75.0	9% 91.	7% 94	4%	65.3°	% 4.	3% 10	.3%	14.4%	13.2	96 16.	끩
L L	57 Anaropogon gerarai		Ť	6	41.	7% 61.	1% 77	.8%	50.0	% 6.	0% 5	.7%	7.5%	4.6	10.	2
μ	5/ POB compresse		Ť	Б	25.	5% 36.	1% 33	.3%	42.7	% 2.	7% 2	.0%	1.3%	1.0	2% 4.	씠
H			In	Þ	52.	8% 69	4% 52	.8%	30.7	% 0.	7% 1	.3%	1.39	11	270 4.	鉴귀
F	57 Decicilm vimatum		In	Þ	75.	0% 36	1% 38	.9%	41.3	<u>% </u>		.0%	1.39	<u>11</u>	<u> </u>	쁥
H	57 Piantago lanceolata	_		P	2.	8% 8	.3%		44.0	<u>% 3</u>	/%	1.576	1.09	1 -		꼺
ŀ	57 Carex SD		U	P						2	.3%		3.69		200 2	굞
ŀ	57 Aster porteri		n	P		61	.1% 38	.9%				200	2.09	2		38
H	57 Juncus arcticus		n	P	8.	3% 25	.0% 16	5.7%	42.0	<u>1% 0</u>	./%	اللاك ا	0.79		294 2	
H	57 Boutelous gracilis		n	P	30.	6% 30	.6% 16	5.7%	16.7	% 0	·(2)		0.07		396 2	34
H	57 Erigeron flagellaris		n	P	36.	1% 33	.3% 3	3.9%	14.7		100	1 702	0.37			84
- F	57 Carex heliophylla		n	P	13	.9% 25	.0% (3.3%	12.7		100	1.170	0.0	~ ''	~~ 1	8%
ŀ	57 Dianthus armeria			P	52	.8% 2	.8% 1	5.9%	54.0			0.394		-+	-+-;	6%
ŀ	57 Demonstration			m	16	.7% 52	.8% 2	1.8%	10.7	1		10.070	I			

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Арр	endix 3 (Cont.)		ſ		R of Ound	Inte Pres	int		% Cover			
		-1		DartQ4	July 05	111/96	Ali94	June95	June96	Aug95	Aug96	IMP
Plot	Species	_		5 5 6 4	11 196	22.2%	17.3%	1.0%	0.3%		0.3%	1.4%
57	Aster faicatus		÷ I		27.8%		12.0%			1.0%	1.6%	1.4%
57	Convolvulus arvensis	-	<u><u> </u></u>	16 7%	30.6%	22.2%	10.7%			0.3%	0.7%	1.3%
57	Schizachynum scoparium		24	10.7 %			6.0%	1.3%		2.0%	0.3%	1.2%
57	Spartina pectinata	-	2	9.24	30.6%	5.6%	4 0%	0.7%		0.7%		1.0%
57	Bouteloua curtipendula	<u>n</u>	P	0.3%	25.0%	19.4%	12.0%					0.9%
57	Opuntia macromiza		P	5.070	23.0 %	13.4 %	8.0%		0.3%	1.0%	1.3%	0.9%
57	Iris missouriensis	n	<u>P</u> _		2 994		0.0 2		0.7%	1.6%	0.7%	0.9%
57	Rosa arkansana	n	<u>P</u>	44.40	20.6%		12.0%				0.3%	0.8%
57	Tragopogon dubius	•	m.	11.170	46 794	5.5%	7 394			0.3%	0.3%	0.7%
57	Buchloe dactyloides	n	P	13.970	42.00	5.0%	73%	0.3%	0.3%			0,7%
57	Koeleria macrantha	п	Ρ.	2.8%	13.970	9.2%	16 7%	0	0.3%			0.7%
57	Sorghastrum avenaceum	n	P_	5.6%	11.170	0.370	9 794		0.3%			0.7%
57	Artemisia ludoviciana	Π	Ρ	27.8%	13.9%	11.170	5 294	0.394	0.3%	1.0%	0.3%	0.7%
57	Cirsium arvense	θ	Р			0.00	0.370	0.5 %	0.5%	1.0 %		0.7%
57	Oxalis dillenii	n	m	19.4%	30.6%	8.3%	0,170	0.394				0.7%
57	Acetosella vulgaris	e	P	11.1%	8.3%	22.2%	4./70	0.570		1.0%	0.3%	0.6%
57	Agropyron smithii	n	P		13.9%	10 10	3.37	0.294		1.0 2	0.0 %	490
57	Dicanthelium oligosanthes	n	m	11.1%	2.8%	19.4%	1.370	0.370	<u> </u>	ł		0.6%
57	Sporobolus asper	n	P		11.1%	19.4%	1.37	4	 	+	t	0.6%
57	Hypericum perforatum		P	19.4%	8.3%	16.7%	10.7%	4	 	0.304	 	0.5%
57	Sitanion longifolium	n	U	2.8%	8.3%	11.1%	3.3%	<u>'</u>	0.20	0.370	<u>↓</u>	0.4%
57	Achilles lanulosa	n	P	1			11.39	4	0.3%	0.37	<u> </u>	0.92
57	Lomatium oriental	n	P	19.4%	2.8%		11.3%	<u>'</u>	ł	 	 	0.37
57	Asclepias engelmanniana	n	P	5.6%	5.6%	8.3%	2.0%	<u>'</u>	ļ		 	0.370
57	Ambrosia psilostachva	n	P	8.3%	5.6%	8.3%	2.0%	<u> </u>			 	0.370
57	Artemisia fricida	In	D		8.3%	2.8%	2.7%	6	0.3%	<u> </u>	<u> </u>	0.3%
1 27	Temperum officienele	e	D			8.3%			0.3%	<u> </u>		0.3%
1 ===	Hak Earb 965	Ť	tu.	1		16.7%	,			<u> </u>		0.3%
⊢읦	Onk. Pord-soo	1.	1				T		0.79	6		0.2%
5	Carex supera	t:	HP-					0.7%	· ·			0.2%
57	Juncus iongistylis	12	15		2.8%		1.39	5	0.39	6		0.2%
57	Anstida purpurea		12	5.6%			7.39	6		0.3%		0.2%
57	Stipa vindula	10	뽄	2.89	<u>+</u>	2.89	1.39	6 0.3%			T	0.2%
57	Allysum minus	10	Im	2.07	11 196		4.09	6		1		0.2%
57	Camelina microcarpa		Im	2.07	13.0%		+	¥				0.2%
57	Lepidium campestre		m	2.00	2.9%		2 09	را – ا		-	0.39	6 0.2%
57	Dalea purpurea	1	ĮP.	2.07	2.070		12 39	2	1	+	+	0.2%
57	Medicago luputine	10		5.07		8 39	1 39			+	1	0.2%
57	Talinum parviflorum	IU	<u>u</u>			0.37			+	+		0.1%
57	Muhlenbergia racemosa	10	ĮΡ	<u> </u>	+	2.99	4				0.39	\$ 0.1%
57	Stipe comata	10	1P		+	2.07			0.35	<u>k</u>		0.1%
57	Unk. Grass - 199	lu	u			—	1 4 20	. 	1 0.0	<u>~</u>	+	0.1%
57	Allium textile	n	I P		5.6%	· 	1.37		+	0.39		0.1%
57	Liatris punctata	In	<u>I</u> P		2.8%	·	0.7		+	1 0.5	°	0.1%
5	Lepidium densiflorum	e	П	<u>اا</u>		5.69	6 2.0	2	<u> </u>			
5	Lesquerella montana	İn	ı lu			1	0.79	\$ 0.39	<u> </u>			0.1%
5	Opuntia fregilis	In	ı p		5.6%	<u> </u>					+	0.1%
5	Symphonicarpos occidentalis	1	P			8.39	6			<u> </u>		
5	7 Silene antimhina	e	П	n	2.8%	»	2.0	*				- 0.170
5	7 Erodium cicutarium	1	n in	n	5.6%					<u> </u>	- -	0.1%
5	7 Oxybaphus linearis	1	10		2.89	6	0.7	%		_	+	0.1%
Ť	7 Plantago patagonica	1	1 10	n			4.0	%			_ 	0.1%
5	7 Eriogonum alatum	1					3.3	%		0.3	*	0.1%
H	7 Dovmocallis fissie	-ti	n le				2.7	%		0.3	*	0.1%
F	71 lok Forb -774	ti	a fu	1				0.3	%			0.1%
F	7 Agostis gioentee			51			1.3	%				0.0%
무	7 Phierm prateries			,	1	T	0.7	%			_	0.0%
무	7 Adamosis compactrie			<u></u>	<u> </u>	1	2.0	1%				0.0%
F	7 Hotomboo viller	-#	÷ť,		2.89	6						0.0%
P		-+	÷.	<u>.</u>		2.8	%					0.0%
L ⁵	/ prackena pseudoaureas	-	<u>.</u> #	<u> </u>		+	2.0	7%	1			0.0%
15	/ Senecio plattensis	-	<u></u>	(28	<u>%</u>		-			0.0%
L ⁵	/ Erysimum esperum	+	<u>n 1</u>	<u> </u>			07	796		1-	_	0.0%
L	7 Echinocereus vindifiorus	-	nμ	2			-+				-	0.0%
5	7 Arenaria fendlerii	4	ņμ	2	~	-+	-	794			-+	0.0%
E	7 Cerastium arvense		<u>n </u>	2.8	70		- 0.1	70				0.0%
5	7 Silene scoulerii	Í	<u>n j</u>	P	<u> </u>		+1-	270				0.0%
	7 Evolvulus nuttalianus		nŢ	P			<u>Z.(</u>	78		-+		0.0%
1	7 Tragia ramosa		n	P			0.1	/%			_+	
	7 Astragalus shortianus		ח	р		_	0.1	7%			_	0.07
H	7 Trifolium moens			0			2.	7%				0.0%

Section Partial Durge Lubble Aller LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS LumeS <thlumes< th=""> LumeS LumeS</thlumes<>	App	endix 3 (Cont.)		1		W A Outa	drats P	rese	ent i		% Cove	r		
Bits Dorse Dorse Dorse Dorse Dorse Charlamon genedia 1 p 5.5% 1.13% Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse Dorse D	N .4	0ing			PartQA	Jub 95	Julv96	A	194	June95	June96	Aug95	Aug96	IMP
Construction previses In D 5.9% 1.3% 0.0% C100, E-0-837 U U 2.8% 1.3% 3.7% 5.5% 3.00 0.0% C100, E-0-837 U U 2.8% 0.7% 0.7% 5.5% 4.07% 5.5% 4.07% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2%	57	Celdoohus semulata		0	2.8%	00170		Т	0.7%					0.0%
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Stell Diamthus ammeria (e) 0 17.3% 1.3% 1.0% 2.6% 0.7% 1.6% S6 Agrostis gigentina (h) 27.8% 41.7% 12.2% 8.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7% 1.7%	58	Bromus japonicus	e	m	16.7%	55.6%	52.8	%	4.7%	<u> </u>	U.3%	' 		2.0%
S8 Accuratis gigarities (e) 27.8% 17.7% 2.2% 0.7% 1.7% S6 Bourbouid precifics n.p. 27.8% 41.7% 22.8% 0.7% 1.0% 0.7% 1.7% 1.7% S6 Bourbouid precifics n.p. 8.3% 56.7% 2.0% 0.3% 0.6% 1.7% 1.7% 1.0% 0.7% 0.3% 0.3% 0.3% 1.1% 1.7% 1.0% 0.7% 0.3% 0.3% 0.3% 1.1% 1.1% 1.1% 0.3% 0.3% 0.3% 1.2% 0.3% 0.3% 0.2% 0.1% 1.1% 1.1% 0.3% 0.3% 1.2% 0.3% 0.3% 1.2% 0.3% 0.3% 1.0% 0.3% 0.3% 1.1% 0.3% 0.3% 0.3% 0.3% 0.3% 1.1% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 1.0% 0.3% 0.3% 0.3% 0.3%	58	Dianthus armeria	e	P	47.2%	33.3%	38.9	736	42.7%	100	 	264	0.7%	1.8%
58] Exclusiona graditis n p 27.8% 41.7% 22.4% 0.7% 1.9% 1.7% 1.7% 58] Ambroside pailostachya n p 8.3% 15.7% 19.4% 20.7% 1.0% 0.7% 0.8% 1.7% 58] Allycum minus n p 8.3% 36.1% 36.1% 30.1% 30.1% 30.1% 30.1% 30.1% 30.1% 30.1% 30.1% 30.0% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 1.1% 0.3% 0.3% 1.1% 0.3% 1.1% 0.3% 1.1% 0.3% 0.3% 1.1% 0.3% 0.3% 1.1% <	58	Agrostis gigantea	e	P				+	31.3%	1.0%	 	4.0 70	1.74	1.7%
S8 Ambrosis psikotschyse In (p. 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 27, 10, 2	58	Bouteloua gracilis	In	P	27.8%	41.7%	42.2	2	20.75	1.0%	0.79	200	<u> </u>	1.7%
Sel Alpysum minus e m c.3.78 .30.78 .0.27 .0.276 .0.236 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326<	58	Ambrosia psilostachya	n	P	8.3%	16./%	19.4	꾒	20.770	0.3%	0.39			1.4%
S61 Agropyron smithin n p 30.5% 21.5% 10.7% 1.0% 1.2% S61 Carex pregracities n p 16.7% 20.5% 2.7% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3%	58	Allysum minus	e	m	8.3%	30.17	30.	2	11 396	0.3%		0.3%	0.3%	1.3%
S8 Carex pregrecitis n.p. 10.7% 2.7% 0.3% 0.3% 0.7% 1.2% S8 Aster porterin n.p. 16.7% 2.7% 0.3% 0.3% 0.7% 1.2% S8 Crisum enrense e.p. 11.3% 1.3% 0.6% 0.3% 1.1% S8 Prisum enrense e.p. 33.3% 5.6% 1.3% 0.7% 0.7% 0.3% 1.1% S8 Prisum enrense e.p. 33.3% 5.6% 1.3% 0.6% 0.3% 1.1% S8 Propologon dubus e.m.m 19.4% 12.9% 10.9% 1.0% 0.6% 0.3% 1.0% 0.8% S8 Juncus archices n.p. 2.8% 8.3% 26.0% 0.7% 1.0% 0.8% S8 Distichil's spicate n.p. 5.6% 0.7% 0.7% 1.0% 0.8% S8 Dubrichil's greatils n.p. 16.7% 1.0% 0.7% 0.3% 0.4%	58	Agropyron smithii	In	P	30.6%	21.07	16	2	2.0%	<u> </u>	1.79	1.0%		1.2%
58 Aster porter In IP 10.74 21.00 21.00 11.3% 1.3% 0.6% 11.2% 58 Cirisum prefense e Ip 33.3% 5.5% 13.3% 0.7% 0.3% 1.1% 58 Pribrum prefense e Ip 33.3% 5.5% 13.3% 0.7% 0.3% 1.1% 58 Pribrum prefense e Ip 33.3% 5.5% 0.7% 0.5% 0.3% 1.1% 58 Tregopogen dubius e Im 19.4% 27.8% 6.7% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5%	58	Carex praegracilis	n	P		46 794	27.1	20	2.0 %		0.39	0.3%	0.79	1.2%
58 Cirsium arvense 6 p 33.3% 5.5% 13.3% 0.7% 0.7% 0.3% 11.1% 58 Pheum pretense 0 p 33.3% 5.5% 13.3% 0.7% 0.7% 0.3% 1.1% 58 Pheum pretense 0 0 19.4% 19.4% 19.4% 2.7% 0.7% 0.5% 1.0% 58 Carex signals n p 2.8% 8.3% 25.0% 0.7% 0.7% 0.8% 58 Juncus arcticus n p 2.8% 2.5% 0.7% 1.0% 0.8% 58 Buchico declybicides n p 1.6.7% 1.0% 0.7% 1.0% 0.8% 58 Botteloca curbpendule n p 16.7% 5.6% 0.7% 0.7% 1.3% 0.4% 58 Allium textile n p 2.7% 5.6% 0.7% 0.7% 0.3% 0.3% 58 Potentile gracitis n p 16.7% 5.6% 0.7% 0.7% 0.3% 0.3%	58	Aster porteri	In	P	<u> </u>	10.7 %	21.3		11 3%	1.3%	1.39	0.6%	1	1.2%
38 Prieum pretense 0 P 2022 10.22 10.22 0.05% 0.3% 1.1% 58 Hippochaete leevigata n p 1 18.0% 2.3% 1.0% 58 Carex stpata n p 2.8% 27.8% 27.8% 2.3% 0.0% 58 Trappopon dubius n p 2.8% 8.3% 26.0% 0.7% 0.0% 0.0% 58 Burchice dectytoides n p 2.6% 25.0% 0.7% 1.0% 0.8% 58 Burchice dectytoides n p 16.7% 15.6% 0.7% 1.0% 0.3% 1.0% 0.8% 58 Bottelchic special wrightii n p 16.7% 5.6% 7.5% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% </td <td>58</td> <td>Cirsium arvense</td> <td>le</td> <td>IP.</td> <td>22.20</td> <td>5.69</td> <td>13</td> <td>sst</td> <td>13.3%</td> <td>0.7%</td> <td>0.79</td> <td>6</td> <td>0.39</td> <td>1.1%</td>	58	Cirsium arvense	le	IP.	22.20	5.69	13	ss t	13.3%	0.7%	0.79	6	0.39	1.1%
SB / Pupportade In D 12.2.2 10.05 2.3% 1.0% SB Carex stpata n p 2.2.3% 27.8% 6.7% 0.0% SB Carex stpata n p 2.8% 6.7% 0.0% 0.2% SB Juncus archicus n p 2.8% 6.7% 1.0% 0.3% SB Juncus archicus n p 2.6% 0.3% 0.7% 1.0% 0.3% SB Juncus archicus n p 5.6% 25.0% 6.7% 1.0% 0.3% 0.0% SB Doutewas curtipandula n p 16.7% 13.4% 0.7% 1.3% 0.6% SB Aution twittle n p 27.8% 11.1% 6.7% 0.3% 0.3% SB Altium twittle n p 27.8% 11.1% 6.7% 0.3% 0.3% SB Altium twittle n p 27.8% 11.1% 0.3% 0.3% 0.3% SB Altium twittle n p 27.8% 11.1% 0.3% 0.3% 0.3% SB Alti	58	Phieum pratense	1e	1P.	22 29	19.4%	19.	196	12.0%		1	0.6%	0.39	6 1.1%
SS Carbox Supplica n 19.4% 27.8% 6.7% 1.0% SS Trappogon dubius n p 2.8% 8.3% 26.0% 0.7% 0.8% SS Juncus arcticus n p 2.8% 8.3% 26.0% 0.7% 0.8% SS Jusched dactytoides n p 5.6% 0.7% 1.0% 0.8% SS Bostichils spricet n p 16.7% 19.4% 0.7% 0.3% 0.6% SS Bostichils spricet n p 16.7% 19.4% 0.6% 0.6% SS Muhienbergia wrightii n p 16.7% 5.6% 0.7% 0.3% 0.3% SS Adium textile n p 27.8% 11.1% 6.7% 0.3% 0.3% SS Adium textile n p 27.8% 11.1% 0.3% 0.3% 0.3% SS Areacio plattensis n p 5.6% 17.3% 0.3% 0.3% SS Areacio plattensis n p 5.6% 11.1% 0.3% 0.2% SS Areacio plattensis n <td>58</td> <td>Hippochaete laevigata</td> <td>1</td> <td>10</td> <td></td> <td>1 10</td> <td></td> <td></td> <td>18.0%</td> <td></td> <td></td> <td>2.3%</td> <td>L</td> <td>1.0%</td>	58	Hippochaete laevigata	1	10		1 10			18.0%			2.3%	L	1.0%
So Trigglogger Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce Counce <th< td=""><td>20</td><td>Carex supara</td><td>i.</td><td>te.</td><td>19.49</td><td>27.8%</td><td>27.</td><td>3%</td><td>6.7%</td><td></td><td></td><td></td><td></td><td>1.0%</td></th<>	20	Carex supara	i.	te.	19.49	27.8%	27.	3%	6.7%					1.0%
Status n p 5.6% 25.0% 6.7% 1.0% 0.8% 58 Buchloo dechtoides n p 5.6% 0.7% 1.0% 0.3% 1.0% 0.8% 58 Buchloo dechtoides n p 16.7% 19.4% 0.7% 1.3% 0.6% 58 Buchleoue curtipendula n p 16.7% 19.4% 0.7% 0.7% 1.3% 0.6% 58 Allumentergia wrightii n p 16.7% 16.7% 0.7% 0.7% 0.3% 0.3% 58 Centaine actifitusa e u 8.3% 5.6% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3%	50	Inacus arcticus	Īn	Þ	2.89	6	8.	3%	26.0%	0.7%			ļ	0.8%
Solution Solution n p 5.6% 0.7% 1.0% 0.3% 1.0% 0.8% SB Distichtifs spicata n p 16.7% 19.4% 0.7% 13.4% 0.6% SB Muhienbergia wrightii n p 16.7% 5.6% 0.7% 13.3% 0.6% SB Allium textile n p 27.8% 11.1% 6.7% 0.3% 0.3% SB Allium textile n p 27.8% 11.1% 6.7% 0.3% 0.3% SB Cencic platterists n p 5.6% 7.3% 0.3% 0.3% 0.3% SB Senecic platterists n p 5.6% 11.1% 0.3% 0.3% 0.3% SB Trickium repents e p 16.7% 10.7% 0.3% 0.2% 0.3% SB Hordeum jubatum n u 11.1% 8.3% 2.8% 3.3% 0.2% 0.2% SB Hordeum jubatum n u 11.1% 8.3% 0.3% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2%	58	Buchice dectyloides	In	Б	5.69	5	25.	7%	6.7%			1.0%		0.8%
Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct Construct <thconstruct< th=""> <thconstruct< th=""> <thc< td=""><td>50</td><td>Distichlis spicata</td><td>In</td><td>Þ</td><td></td><td></td><td>5.</td><td>5%</td><td>0.7%</td><td>1.0%</td><td>0.39</td><td><u> (</u></td><td>1.07</td><td>6 0.8%</td></thc<></thconstruct<></thconstruct<>	50	Distichlis spicata	In	Þ			5.	5%	0.7%	1.0%	0.39	<u> (</u>	1.07	6 0.8%
Si Mulniembergia wrightii n 0 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.2% 0.3% 0.2% 0.3% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2%	58	Boutelous curtipendula	In	P		16.79	19.	4%		<u> </u>		<u> </u>	4 20	0.6%
S8 Potentilla gracilis n p 16.7% 5.6% 0.3% 58 Allium textile n p 27.8% 11.1% 6.7% 0.3% 58 Cantauree diffusa e U 8.3% 8.3% 2.8% 5.3% 0.3% 58 Centauree diffusa e U 8.3% 5.6% 7.3% 0.3% 0.3% 58 Depuntie mecontriza n p 5.6% 11.1% 0.3% 0.3% 58 Enports e p 16.7% 0.3% 0.3% 0.2% 58 Enpus ecutus n p 16.7% 0.3% 0.2% 58 Hondeum jubatum n u 11.1% 0.3% 0.2% 58 Hondeuse n p 5.6% 11.1% 0.3% 0.2% 58 Engeron Regeliaris n p 5.6% 8.3% 0.2% 58 Packeria pseudoeurees n p <td>58</td> <td>Muhlenbergia wrightii</td> <td>n</td> <td>P</td> <td></td> <td></td> <td>1</td> <td></td> <td>0.7%</td> <td><u></u></td> <td>0.79</td> <td>6</td> <td>1.37</td> <td></td>	58	Muhlenbergia wrightii	n	P			1		0.7%	<u></u>	0.79	6	1.37	
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58 Scirpus ecurus In P In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In In <thin< th=""> <thin< th=""> In</thin<></thin<>	58	Trifolium repens	-le	12		10./7	+		10.79	d	-		1	0.2%
S8 HorseUm jusaium In Link Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction <thconstruction< th=""> <thconstruction< <="" td=""><td>58</td><td>Scirpus acutus</td><td>4</td><td>HP.</td><td>1 11 10</td><td>6 8 39</td><td>5 3</td><td>8%</td><td>3.39</td><td>it</td><td>+</td><td>1</td><td>1</td><td>0.2%</td></thconstruction<></thconstruction<>	58	Scirpus acutus	4	HP.	1 11 10	6 8 39	5 3	8%	3.39	it	+	1	1	0.2%
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58 Accorvmum sibericum 0 0	무	o operana pecanala	-	÷	m				0.7	%				0.0%
	H	8 Accorvnum sibericum	-1	Ť	D				2.7	%				0.0%

Арр	endix 3 (Cont.)		1		% of Our	drats Pre	sent		% Cove			
			-	Part94	July95	Julv96	All94	June95	June96	Aug95	Aug96	IMP
Plot			m	5.6%			1.3%					0.0%
- 20	Tamyacum officianala		D	2.8%			2.0%					0.0%
59	Dalas purpurpe	n	P			2.8%						0.0%
58	Meliotus officinalis	e	m	5.6%			1.3%					0.0%
58	Acetosella vulgaris	e	P			2.8%						0.0%
58	Bare Ground							2.0%	2.7%	1.9%	2.0%	0.0%
58	Litter							49.0%	56.1%	45.5%	50.8%	0.0%
59	Poe pratensis		Ρ	25.0%	19.4%	27.8%	25.3%	2.0%	12.5%	0.9%	4.3%	7.4%
59	Carex heliophvila	n	Ρ		30.6%		0.7%	9.9%	2.3%	7.6%	4.6%	72%
59	Cirsium arvense	e	P	2.8%	2.8%	5.6%	42.7%	4.3%	5.6%	5.0%	6.6%	7.1%
50	Sporobolus asper	n	P	94.4%	91.7%	77.8%	36.7%	0.3%	1.3%	5.4%	6.3%	6.7%
59	luncus arcticus	n	P				50.7%	7.2%	3.0%	3.5%	5.0%	6.4%
59	Plantaco lanceolata	8	Þ	100.0%	97.2%	83.3%	40.0%	3.0%	2.6%	2.5%	1.7%	6.3%
50	Panicum viroatum	n	P	83.3%	69.4%	44.4%	55.3%	3.6%	1.3%	5.4%	2.0%	6.1%
59	Eleocharis elliptica	n	U	. 33.3%	33.3%	16.7%	51.3%	6.3%	1.3%	6.6%	0.7%	5.9%
59	Daucus carota	•	ш	19.4%	58.3%	72.2%	14.7%	l	2.3%	0.9%	4.3%	4.4%
59	Aster faicatus	n	P	63.9%	69.4%	58.3%	42.0%			0.9%	2.5%	3./%
59	Cichorium intybus	0	P	41.7%	52.8%	72.2%	14.0%	1.0%	1.0%	0.9%	1.0%	3.370
59	Carex nebrascensis	n	p			ļ	21.3%	1.6%	1.0%	2.5%	4.0%	3.17
59	Poe compresse		p	63.9%	55.6%	44.4%	28.7%	0.3%	1.0%	0.9%	1.0%	3.0%
59	Andropogon gerardii	n	P	8.3%	11.1%	22.2%	10.7%		0.3%	4.1%	2.0%	2.37
59	Carex stipata	n	P			L	41.3%	0.3%		4.7%	-	
59	Agrostis gigantea	e	P	27.8%	22.2%	16.7%	32.79	1.0%	0.3%	1.3%	0.3%	2.070
59	Sorghastrum avenaceum	n	Р	8.3%	30.6%	52.8%	4.0%	1.0%	0.3%	0.9%	0.3%	2.0%
59	Taraxacum officianale	e	Ρ	27.8%	38.9%	38.9%	12.0%	0.3%		0.3%	1.0%	1.0%
59	Aster porteri	n	P		38.9%	44.4%	4.79		0.3%	0.6%	0.3%	1./2
59	Convolvulus arvensis	e	P	22.2%	36.1%	36.1%	11.3%	0.3%	0.3%		0.3%	1.5%
59	Rose arkansana	n	P	8.3%	16.7%	13.9%	8.09	0.7%	1.0%	1.3%	0.3%	1.5%
59	Hippochaete laevigata	n	m	25.0%	33.3%	30.6%	12.79	<u> </u>				1.2%
59	Schizachvnum scoperium	In	P		8.3%	22.2%	12.79		· ·	0.6%	0.3%	1.0%
59	Musineon divaricatum	In	P					2.0%	1.3%			1.0%
59	Agropyton repens		P	8.3%			19.39	0.3%	0.79	0.6%	<u> </u>	0.9%
59	Solideoo sparsiflora	U	U	22.2%	36.1%		14.79	0.3%		I	_	0.9%
59	Packeria pseudoaureas	n	P			38.9%	5		0.79	6		0.8%
59	Psoralea tenuifiora	In	P	5.6%	22.2%	11.1%	3.39	6		0.69	0.39	0.8%
59	Aaropyron smithii	n	P		16.7%	16.7%	5	0.3%		0.39	<u>ه</u> ل	0.7%
59	Ambrosia psilostachya	n	P	11.1%	16.7%	22.2%	5.39	6		<u> </u>		0.7%
59	Bouteloua curtipendula	In	P	5.6%	25.0%	11.19	6 1.39	6		0.37	<u>دا</u>	0.6%
59	Achillee lanulosa	n	P	5.6%	13.9%	5 11.19	6 4.79	6 0.39	6			0.6%
59	Dianthus armeria		p	41.7%	8.3%	8.39	6 10.09	6				0.5%
59	Juncus longistylis	n	P			5.69	6 8.79	6	1	0.39	6	0.4%
59	Asclepias speciosa	n	p			13.99	6				0.79	0.476
59	Bromus inermis	•	P		8.39	6 11.19	6					0.370
59	Unk. Grass - 186	U	U	8.3%	<u></u>	<u> </u>	2.09	6 0.79	6	0.6%	<u>b</u>	0.3%
59	Asclepias viridifiora	n	P	2.8%	13.99	6	5.39	6		+		0.3%
59	Astor laevis	n	p		1		1.39	6	4	0.6	0.79	0.376
59	Unk. Forb -889	U	u	2.89	6		0.79	<u>* </u>	1.09	<u>></u>		0.3%
59	Scirpus acutus	n	P				8.79	6	+			02%
59	Phieum pratense		P	2.89	6	8.39	6 0.7	ъ	0.3	»	. 	1 02%
59	Cirsium floodmanii	n	P	5.69	6 2.89	6	2.0	»I	_	0.3	*	0.2%
59	Lysmachia ciliata	In	u				1	_		_	0.7	
59	Agropyron cristatum	e	P			1	1	1	4		+ 0.3	
59	Bouteloua gracilis	n	P		5.69	6			<u> </u>	+		0.1%
59	Hordeum jubatum	In	u			1	0.7	%	_	0.3	*	0.1%
59	Apocynum sibericum		P	8.39	6		5.3	%			_ _	0.1%
59	Artemisia Iudoviciana	n	P			8.39	*				-+- <u>-</u>	0.1%
59	Medicago lupulina		Π	۱ <u> </u>		1			_		1 0.3	<u>70 U.1%</u>
5	Medicago sativa		P			1		_	0.3	%		- 0.1%
5	Prunella vulgaris	T	P				0.7	%	0.3	%		0.1%
5	Oenothera strigosa	T,	i la	n			3.3	%	_	_		0.19
5	Verbena hastata	Tr	1P			T	0.7	%			0.3	<u>% 0.19</u>
1 Se	Dectvlis glomerata	Te	, to		2.8	6						0.09
5	Muhlenbergia asperitolia	r				2.8	%					0.09
5	9 Unk. Grass - 187	ti	ı İr	, 1			1.3	%				0.09
	9 Allium textile	-17	1 le	5.69	8	T	1.3	%				0.09
F	P Engeron flagellaris	-fi	, f	1	2.8	*						0.09
	9 / actuca serricla	-ti	Ť.	n	1		0.7	%				0.09
	9 Dalas candida	-tì		<u></u>	-1	2.8	%	-				0.09
		-1	, li	8.3	*	1	2.0	196		1		0.09
			- 18	_					-	and a summary statement	the second second second second second second second second second second second second second second second s	

App	endix 3 (ConL)		ſ			% of Qua	drats	Prese	nt		%	Cover		1	11.10	
				Part9	4 1.	July95	July9	6]A	194	June	25 Ju	ne96 A	ug95	Augeo		
Plot	Species	7							0.7%		_				0.	
59			5						2.0%						H n	in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se
59	Rumex chspus	U.	u						1.3%				0.20	0.7%		
59	Unk Forb -og 1		_							1.3	18	0.7%	0.3%	45.0%		<u><u></u></u>
59	Bare Ground	-	-							51.6	× .	6.8%	38.5%	43.37	14	896
59		n	D	100	.0%	91.7%	94.	4%	88.7%	9.2	2%	6.4%	8.5%	5.07	+-7	
60		n	0	2	.8%	55.6%	47.	2%	6.7%	3.3	3%	2.4%	4.6%	1 200		4
60	Aster porten	n		100	0%	66.7%	72.	2%	74.7%	3.0	5%	3.0%	1.6%	1.37		18
60	Stipa comata	n	5	6	.9%	52.8%	61.	.1%	57.3%	1.	5%	1.7%	2.3%	2.07		6
60	Heteromeca vilosa	1	5	54	5.6%	50.0%	69	4%	42.0%	0.	3%	1.4%	1.6%	3.37		394
60	Liatns punctata	l.	10	6	.1%	41.7%	66	.7%	55.3%	2.	0%	0.3%	0.3%	3.37		294
60	Arenana tencieni	1	1-	1:	3 9%	11.1%	5	.6%	39.3%	3.	3%	4.1%	1.6%	0.37		470
60	Andropogon gerardii		12		7 7%	30.6%	75	.0%	50.0%	1.	0%	1.7%	0.7%	1.37	4-3	494
60	Koelena macranina	쁥	H-		4%	61.1%	97	2%	11.3%	1.	3%	2.0%				004
60	Bromus japonicus	Ē		- 5	8 396	50.0%	38	.9%	16.0%	0.	3%	1.0%	0.7%	2.09		
8	Bouteloua curtipendula	臣	18	<u>+</u>	5.5 ~		5	.6%		T		2.0%	2.6%	2.39	<u>+</u> +	
60	Muhlenbergia montana	10	12		R 396	25.0%	16	.7%	12.79	3	0%	0.7%	1.0%	0.39	4	.070
60	Poa compressa	10	臣	1 3	2 2%	38.99	25	5.0%	18.79	5 1.	.0%	0.3%	0.7%	1.77		(
60	Bouteloua gracilis	+	뿓	+	8 394	27.89	1 11	.1%	26.09	5	T	1.0%	1.3%	2.09	버	<u></u>
60	Schizachynum scopanum	분	12	+ -	2.5 %	38.99	5	5.6%	43.39	0	.3%	0.3%	0.39	0.7	<u>-</u>	<u>.47</u>
60	Ambrosia psilostachya	#	HP.	1-3	0 694	44 49	5	5.6%	13.39	<u>ا</u>	.3%	1.0%	0.39	<u> </u>	᠆ᡰ	4.17
60	Tragopogon dubius	ᆤ	1	4-3	5.5 %	+		2.8%	2.09	6 1	.0%	1.4%	2.39	<u>6 0.3</u>	<u>></u>	2.070
60	Muhlenbergia wrighu	쀼	12	+	6.7%	27.89	6 10	5.7%	7.39	6 1	.6%	1.4%	0.39	6 0.3	2	2.070
60	Poa pratensis	+	냄말	╋	7 894	22.29	6 3	5.1%	32.79	6			1.09	6 1.0	<u>></u>	1.57
60	Psoralea tenuifiora	Ŧ	ΗP	+	6 794	33.39	<u>6 2</u>	2.2%	34.79	6 0	.3%		0.39	6 1.0	최_	1.070
60	Buchloe dactyloides	벁	벁	+	0 19	19.49	6 3	0.6%	15.39	6 1	.0%		1.39	6		1./70
6	Eriogonum alatum		<u>IP</u>	+'	0 394	16.79	6 1	3.9%	12.7	6 0).7%	0.7%	1.39	6		1.6%
6	Aristida purpurea	-#	ΥP	+	0.37	41 79	6 3	8.9%	18.0	6 0).3%	0.7%				1.6%
6	Sitanion longifolium	-#	110	+	N.J. N	44.46		8 3%	69.3	5 (1.3%					1.3%
6	Lomatium oriental	4	ιp	+	7.07			56%	40.7	x		0.3%	Γ			1.3%
6	Lesquerella montana	4	שן ר		1.07	27.8	<u>_</u>	2.8%	13.3	ж (0.3%	0.7%				1.0%
6	Aster falcatus	-4	<u>n P</u>		0.17	44 49		8 0%	20	6						0.7%
6	0 Camelina microcarpa	-	<u> </u>	<u>n </u>	70	1 1.1	<u></u>	0.5 %	56.0	<u>x</u>						0.7%
6	0 Campanula rotundifolia	-	n F	4-4	50.77	<u> </u>	+	8.3%	47	8			0.3	% 1.0	196	0.7%
6	0 Paronychia jamesii	_	n jr	2	0.00		+	0.0 %	93	ŝ.		1.0%	0.3	%		0.6%
6	0 Bouteloua hirsuta	4	n (2	2.07	20	~		33	8	0.3%	1.09	6			0.6%
6	0 Antennaria rosea	_	미	2	00.00	2.0		2 2%	167	8			T			0.6%
6	0 Erysimum asperum	_	nμ	2	22.27			6 7%	113	s.				0.:	3%	0.5%
6	Dalea purpurea	_	<u>n </u>	2—	11.17	2.0		10.7 %	113	96	0.7%					0.4%
Fe	0 Agropyron smithii		<u>n</u> µ	오ㅡ			ex	5 69	160	8	0.3%	1	1		_	0.4%
Te	0 Artemisia frigida		n	ᄡ	25.0	2.0	70	J.0 X	1 2 7	-		0.39	6 0.3	96 0.	3%	0.4%
Te	0 Celylophus serrulate		n	₽,					1 60	<u> </u>	0.3%	1				0.3%
E	O Allium textile			<u>e</u>	2.8		102	5 69	5	196		1				0.3%
Te	0 Cirsium floodmanii		n	먼	8.3	20.0.	- 197	2.07	1 43	a l				0.	3%	0.3%
H	50 Gaillardia aristata		n	<u> </u>				2.07	1 10.			+		0	3%	0.3%
H	0 Gutierrezia sarothrae		<u>n</u>	<u>e</u>		+		0.37	<u>" </u>		0.3%	0.3	*			0.3%
H	50 Nothocalis cuspidata		<u>in i</u>	<u>e</u>		<u></u> Z.8	- 1	22 20		296		1				0.3%
H	50 Allysum minus		P	<u>m </u>	5.6	70		2 99	1 8	396		+				0.3%
- H	60 Opuntia macromiza		<u>n</u>	르–	2.8	70 13.		2.07	14	õí t-		0.3	%			0.3%
H	60 Hypericum perforatum		0	P -		<u></u>	-+-		19	õ t		+				0.2%
H	60 Poe sp.	_	U	U L	2.8	2		2 01	2 10.	╧╨╋		0.3	%			0.2%
F	60 Artemisia campestris		In	P		- 22	- 1	2.0	~	-+-		1 03	%			0.2%
F	60 Chrysothemnus neuseosus		In					2.8	*	702	·		%			0.2%
H	60 Oxytropis lambertii		n	P	5.6	5% 5.	0%		+ 4	702		+		-1-	.3%	0.2%
H	60 Unk. Forb -894	_	u	U L		_	 +		╉	700		+		-+-		0.1%
F	60 Bromus tectorum		e	m		2	8%		$+^{2}$.(70		+				0.1%
H	60 Sorghastrum avenaceum		n	IP I		5.	6%			-+		1 07		-+-		0.1%
H	60 Sporobolus cryptandrus		In	P					+		0.2	<u>~ ~</u>	~~ †	-+-		0.1%
H	60 Engeron divergens	_	n	m			_		<u></u>	200	0.0	~	-+	-+-		0.1%
ŀ	60 Grindelia squarrosa		n	m		5	.6%		1	-270			-+			0.1%
ŀ	60 Podospermum lacinatum		e	m		8	.3%						-+-	-+-		0.1%
ŀ	60 Senecio plattensis		Jn	Р					4	./*			-+-			0.1%
- 1	CO Drahe ragians		In	m		5	6%									0.1%
ŀ	60 Malandhim dhimmondii		Īn	P	13.	9%				3.0%		_ _	-+-			1 014
I	OU molance can arbum		e	m				8.3	3%							1 0.12
1	OU Champordium dessicatum	-	Ť	imt	8.	3% 8	3.3%			2.0%				_ _		1 0.17
	DU Unenopudiani obstitutioni	_	ti		19	4%			1	0.7%						1 0.17
	60 Euphorbia routista		-ti	m			3.3%									+
	60 Euphorbia Spaululaia		-ti			-1-				4.0%						+ 0.17
	60 Astragalus agresus	_	-ti	161	8	3%				4.0%						1 0.17
	60 Calocrorus guinisoni	_		استغنت												

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Annendix 3 (Cont.)		I	_		% d (Juadra	ats Pre	sent	T		% Co	Ver			IMP	7	
Appen	_	_	0		hulv9	5 Ju	11/96	AII94	J	lune95	June	96 Aug	<u>ap 14</u>	ndao	1 0	1	
Plot Species	_	_	2	13.0%	Julyo	-+-		5.	3%		L		-+-		+ *	18	
60 7voadenos venenosus	n	Ρ.		13.5 %			8.3%				L		+		+-~;;	18	
60 Plantago patagonica		m	┢──		5.	6%									+ 0	18	
60 Polygonum sawatchense	n	TTI I		2.8%				4.	0%				+		+ *	19	
60 Castilleja sessifiora	<u>n</u> _	<u>18</u>	┢─	2.0%	2	8%		2.	0%			_+-	+			18	
60 Viola nuttalfii	n	P.	┢─					4.	7%				+		$+\tilde{a}$	1%	
60 Unk, Forb -893	Ľ	10	┢	20.6%		-+-	_	8.	7%				+		+ *		
60 Unk, Forb -895	U	1 <u>u</u>	╋	9 394				4	.0%						+ *	194	
60 Unk Forb -896	u	<u>u</u>	∔-	0.370		+-		4	.7%						+	492	
60 Unk Forb -897	u	10	+	2.07	+	-+		6	.7%						-1-2	. 70	
SOLUNK Forb -900	u	<u>u</u>	┢		+					0.39	6					.170	
Solutink Forb -926	u	u	╋		+			10	7%							070	
	n	IΡ			_	+		1-3	0%							0.0%	
60 Ascieptistic Indoviciana	n	P				+		┼╶╡	396							0.0%	
60 Anternasia lanceolata	In	۱p		5.69	<u> </u>	+			396		_	_				0.0%	
60 mertersia sine	ſ	1 E			+	+		. '	2.4							0.0%	
60 Opumus nagino	1	٦r	5T				2.0	~ ~	394		-+					0.0%	
60 Silene scotlers	1	1 5	Л		1				0.004	1						0.0%	
60 Tradescame occoment	卞	n li	5	5.69	6				1 294		-+	-+				0.0%	1
60 Astragalus siturdarius	ti	n li	T						1.07	4	-+					0.0%	l I
60 Leucocnnum monustrum	Ť	n li	51			2.8%			1.00	. 	+-			T		0.0%	
60 Oenothera Drachycarpa	Ť	n li	51						1.59	¥	-+-					0.0%	ł
60 Orobanche Tasciculata	Ť	n	51		T	2.8%				+	-+-	+		1-		0.0%	1
60 Delphinium viresens	╡	n t	5t		T		2.8	5%		. 	_+-			1-	-	0.0%	l
60 Comandra umbellata	+	끍	51	13.9	%				3.39	<u></u>		0 500	8 89	6 8	3%	0.0%]
60 Unk. Forb -899	-1	러	-+							111.8	测구	0.27	55 69	1 53	6%	0.0%]
60 Bare Ground	-	-	-							49.	3% 5	0.7%	7.09		7%	12.8%	.1
60 Litter		_	_	100.0	96 10	0.0%	100.0	0% 7	76.09	<u>× 9.</u>	5%	8.970	2 7		0%	8.4%	1
61 Carex heliophylla	_	n	<u>P</u>	77.8	<u>a</u>	75.0%	69.4	4% 3	39.3	% 4 .	9%	6.0%	3.17		394	7.0%	1
61 Andropogon gerardii	_	n	<u>P</u>	11.0			2.	8%	31.39	% 8	2%	2.2%	0.0		004	6.49	a
61 Poa compressa		e	P	77 0		83 396	72	2%	54.7	% 6.	9%	2.2%	1.0		202	A 09	á
61 Stipa comata	_	n	<u>P</u>		04	66.7%	80	6%	38.0	% 0.	7%	1.6%	2.0			4.6	3
61 Ambrosia psilostachya	_	n	P_	33.	270	00.1 %	1 11	19	29.3	% 1.	3%	2.2%	4.0	× -	1.370	4.01	21
61 Aster faicatus	_	n	P_	L	-+	47.28	36	196	2.7	\$ 0	7%	0.9%	1.7	×	2.4%	9.07	읨
61 Bouteloua curtipendula		n	P	L		41.27		6%	24.7	8 2	6%	2.5%		_		3.07	읡
61 Bromus japonicus		•	m	5.0	5%	52.07		100	54 7	S 0	.7%	1.9%	1.3	% (0.7%	3.57	읡
61 Koeleria macrantha		n	P	72.	2%	41./7		792	23.3	196		0.9%	1.0	96	2.3%	2.47	의
61 Routobute gracilis		n	P.	36.	1%	30.69	6 10	004	20.0	796 3	3%	0.3%			1.7%	2.4	칠
61 Bookerous granne		e	P	30.	6%	8.39	6 13	200	20.7	794 0	3%	0.6%	1.3	9%		2.4	2
61 Pos praterialo		In	P	33.	3%	47.21	<u>b 20</u>	- 02	20.1	294	3%	0.9%			0.7%	2.3	츼
61 Helefoldieca ville		10	Π	16	.7%	38.9	8 2		31.		7%	0.6%			1.0%	<u>2.3</u>	<u>%</u>
61 Tragopogor Gabres		Tr	IP	61	.1%	36.1	8 44	.470	30.		0%	1.3%	1.0	0%	2.7%	2.1	<u>%</u>
61 Arenana lericiem		Tr				11.19	%		47		7%	0.3%	0.	7%		1.9	196
61 Munienbergia montane		-1.	1 P			52.8	% 3	5.1%	11.	270	<u></u>	0.69	1 1	3%	1.3%	1.9	196
61 Lietris punctate	-		n Te	25	.0%	25.0	% 1:	3.9%	22.		1 004					1.8	5%
61 Psoralea terruinora		-1	n le	72	2%	38.9	% 3	8.9%	38	<u>140</u>	0.204	0.99	11	0%	2.0%	1.7	/96
61 Engeron nagellaris		Ť	n le	5 8	3.3%			2.8%	16	070	1 100	0.00	1 0	7%		1.7	1%
61 Agropyron smithi	_	-†	, t	2	2.2%	30.6	% 2	7.8%	17	3%	1.070	4 00	1 7	791	1.0%	1.1.	5%
61 Buchloe dactyloides		-+	n l	<u></u>				8.3%	1	.3%	1.0%	1.37	ᠲᢇ	<u></u> +-		1 1.	4%
61 Aster porten		-+		7	2.2%	27.8	3%	5.6%	64	.0%		 	+ =	394		1	18
61 Lomatium oriental		-	긝	<u></u>		11.1	196 3	3.3%	12	.7%		1	╉╌╵	~~+		11.	1%
61 Muhlenbergia wrighti			÷	<u></u>			10	56.7%				1 0.3	81			1 1	0%
61 Sitanion longifolium				<u></u>		25.0	0%	44.4%	3	3.3%		0.3	₽	701		1 1	0%
61 Bromus tectorum			믭	" -	1 1%	36	1%		1	3.0%	0.7%	4	+-	<u></u>	0.20	त त े	8%
61 Hordeum vulgare	_		벽		2 204	11	1%	13.9%	19	9.3%	0.3%	1	_+_	+	10.07	1-7	89
61 Artemisia frigida	_		n	믿—-	5.64	11	196	11.19	5 10	0.7%	0.3%	0.9	<u>%</u>			╉	7
61 Opuntia macrorhiza	_	_	<u>ا ما</u>	₽+	J.070		894	13.99	6	9.3%		0.3	%	0.7%		+	72
61 Schizachyrium scoparium		_	n	P	0.070		3021-	27 89	6	2.0%	0.39	6 0.3	%			$+\frac{9}{2}$	
61 Allysum minus			•	m	C 001		000	27.89	6 7	2.7%		T				<u>+</u> -	·(종)
61 Ervsimum asperum		_	n	P_	5.6%	13	100	21.01	╧╋╌╴	2.0%		T		1.7%		4-9	1.07
61 Boutelous hirsuta	_		n	IP		╞──╤		5 69	. -	20%	0.79	6	T	0.7%		19	107
61 Econorum alatum			In	IP		<u>+ 5</u>	070	5.07	~+-		1 0	6		0.3%	0.3	<u>%</u>	1.5%
C1 Seembours as Dar	-		In	P					+	5 200							0.5%
61 Sporteduits soper		_	In	P	13.9%	25	.0%		╦┠┘	4 200	0.70	× 0	3%	0.3%			0.5%
61 Amuri coxuno	_		In	P		<u> </u>		2.8	2-	1 2 2 2	0.7	~ ~~			0.3	1%	0.5%
61 Anomisia Campositis	5	_	In	Ip I	11.19	6 8	3.3%	13.9	2	3.370	_	-+			T		0.5%
61 Coryphantina mussiculiens	<u> </u>		Te	Im		27	7.8%	8.3	2	1.37		-+			1	Т	0.4%
61 Chenopocium dessiceum			Ť	ID T		19	9.4%	8.3	%	6.0%		- -	<u>a</u>		1 0:	3%	0.4%
61 Artemisia iucoviciana			╶╫╴	tint-		T						_ 		_	+	-	0.4%
61 Erigeron divergens			÷		27.89	6 1	9.4%			12.7%					+	-+-	0.4%
61 Mertensia lanceolata			-ť	15-		-			1	<u>7.3%</u>	0.7	20 0	اه د.		+	-+-	0.4%
61 Camelina microcarpa	_	_		 " -	839	*		19.4	1%	8.7%	L						
61 Lesquerella montana		_		191		<u></u>											

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Appendix 3 (Cont.)		ı	_		% d (Ouad	rats Pr	eser	nt		*	Cove	N T	<u></u>	~	TA 4D	٦
		_	0	104	Julys	5 J	uly96	A	194	June	95 Ji	ine96	Aug9	5 Aug	96	0.4	ನ
Plot Species		_	r a		13.	9%	19.4	*	2.7%				_			0.49	킭
61 Silene antimhina		<u>m</u>		33.3%	16.	7%		1	2.0%				+	-+	396	0.3	킼
61 Viola nuttalhi		P D	-	2.8%	11.	1%	2.8	*	4.0%				╉╼╼╸		3%	0.3	5
61 Aristida purpurea	n	m		8.3%	8.	3%			5.3%	ļ	-+-		+	-+-		0.3	*
61 Cirsium unoulatum	u	U		33.3%				1	17.3%	-	201		+	-+-		0.2	X
61 Unk. Porb -502	İn	D	1		8.	3%	_	_		-0-	270	0.69	<u>.</u>	-+-		0.2	%
61 Musineon avaicatom	In	m	1						0.7%	┣		0.07				0.2	%
61 Grindella squaricse	In	m	1		16	.7%		+	2.0%	+	-+		+	-+-		0.2	%
61 Descurainta printate	n	m	T		13	.9%			2.0%		-+-		+			0.2	%
61 Draba reptaris	In	D	T		8	.3%	2.8	1%	4.0%	4	+-		+			0.2	S
61 Oxyoopis lamberal		İP	T	2.8%	11	.1%	2.8	196	3.3%	4	70/		+	-+-		0.2	%
61 Hypericult period start	lu	u	T					_	3.3%	부생	204					0.1	%
61 UHK. FBID-500	Tu	P	Т					_		1.	22	03				0.1	%
61 Carek Sp.	In	Ip	Т		L		2.8	3%		+			~			0.1	%
61 Sorghastram even	Π	117	4		2	2.8%	5.0	5%	4 08	<u>.</u>	-+		+			0.1	1%
	п	P	E						4.07							0.1	1%
61 Activide Inflores	In	IP			<u> </u>			 +	4.07	빅			+-			0.	1%
61 Anterna eristata	T	P	T		1		5.0	5%	2 79	+ -	1396					0.	1%
61 Nothercalis cuspidata	1	IP	T	5.69	<u>ها</u>			+	6.79	2 `	~~~~		+	- 1-		0.	1%
61 Senecio plattensis	r) I P		2.89	<u> </u>				6.17							0.	1%
61 Lepicium campestre) r	n		+		<u> </u>	070	100	21			-1-			0.	1%
61 Opuntia fragilis	1	1	Σ				┝╌╴	<u></u>	4.0	% 					_	0.	.1%
61 Cempenula rotundifolia	T	۱I			4		<u>↓ 2</u>	.070	2.0	ől-			-1-			0	.1%
61 Pampychia jamesii		n ş	5			5.6%		~	2.1				-1-			0	.1%
61 Silene scoulerii		n lj			+	2.8%	2	.07	40	a t			-1-			0	.1%
61 Sherie scoulor		e I	m		4-		+		4.0	~			_			0	.1%
61 Acrua Iranico	T	n II	P	2.8	<u>× </u>	2.8%	<u>'</u>			~			-			0	.1%
61 Elipholitila teterophylla	Т	n	m		<u> </u>				4./	~-		0	3%			0	1%
61 Priscellaria brittoria		n	P.L		<u>.</u>				1 07				3%			0	1.1%
61 Scutenaria unineria		n	P		_		┶╌╸		<u> </u>	ᅍᆉᅳ		<u>+</u>).1%
61 Coppeopus incents		n	p					5.6%	┨	+		┢╼╼	-+).1%
61 Oxydaprids micd.		n	P				+	5.6 %		-		+	-+-).1%
61 Comancia amount		u	u	2.8	%				4.1	20		╉╼╼╸	-+-).1%
Stillink Forb -904		U	u	11.1	%	2.89	6		1 3	702		+	-+-				0.0%
61 Onk Ford to		U	U						1 4.4	70		+	-+	1			0.0%
61 POB Sp.		e	m				_		2.	190		╈╼╸	-+-				0.0%
61 Lactoca comun lacinatum		•	m						1	204		+					0.0%
61 Terevacum officianale		e	Р							202		+					0.0%
61 langula redowskii		n	m		_		-+	2 00	d ''			+	-+				0.0%
61 Lepidium densifiorum		0	m	L			~+	2.07	⁰┼	-+-							0.0%
61 Tradescantia occidentalis		<u>in</u>	P	L		2.0	<u>~</u>		+ -	7%							0.0%
61 Astragalus shortianus		n	P	L			_		+ 5	7%							0.0%
61 Calviophus serrulata		n	P.	8.	3%		-+		1-7	3%		+-					0.0%
61 Gaura coccinea		ln	P				+		+ 6	7%							0.0%
61 Plantago patagonica		In	ļm	1			-+-		╉	79		+					0.0%
61 Androsace occidentalis		In	m						╧		13.8	% 1	0.1%	11.0%	10).7%	0.0%
61 Bare Ground		1	+-		_+-	_	-+-		-+		34.1	% 4	6.2%	48.5%	4	7.8%	0.0%
61 Litter		4	4-	+	201	04	794	91 7	96 97	3%	10.2	%	6.4%	10.5%		4.0%	15.8%
62 Agropyron smithii	_	4	ЧP	1 37	<u>4</u> 20	51.1		58 3	8 4	3.0%	2.8	%	1.3%	4.6%		4.0%	8.2%
62 Buchloe dectyloides	_	#	ιP	1 63	204	- 40		55 6	% 7	3.0%	15.2	%	5.4%				7.8%
62 Allysum minus		4	1	1 33	702	-00	496	83 3	96 74	4.7%	12.4	1%	4.7%		1		7.7%
62 Bromus japonicus		4	10		104	03.	496	75.0	96 4	4.0%	7.	5%	8.0%				7.4%
62 Bromus tectorum		4	0 10	<u>n 61</u>	.170	<u></u>	696	167	96 3	5.0%	3.	1%	3.0%	4.39	6	4.3%	6.9%
62 Aster falcatus		4	<u>∎</u> E		070		64	39.0	396 3	6.7%	1	2%	6.4%	1.69	6	2.7%	6.5%
62 Bouteloua gracilis		4		2 20	0.070	- 35	<u></u>	135	396 4	2.0%	2.	8%	5.7%	2.6	6	2.7%	6.3%
62 Carex heliophylla		_			0.370	23		38 0	9% 2	1.3%	0.	3%	0.3%	0.79	×	1.3%	2.9%
62 Artemisia frigida		_	n ļr	21 - 30	070	- 30		19	4% 2	1.3%	1	-	1.7%	1.3	*	1.0%	2.7%
62 Ambrosia psilostachya			n ļr	21-19	2.170	19	A94	- 22	3% 1	7.3%	3.	1%	0.3%			0.3%	2.5%
62 Erodium cicutarium			• 1	m <u>3</u>	2.370	44	794	75	0%	2.7%	1	-1	0.7%				2.4%
62 Plantago patagonica			n li	<u>m 2</u>	1.070	41	402	38	<u>9%</u>	6.0%	51					2.0%	2.2%
62 Grindelia squarrosa			n	<u>m </u>	2.0%	19	28	.00.	╧╝╡	26.09	2	2%	0.7%	6	T		1.89
62 Poa sandbergii			n	<u> </u>	1.1%	4/		2	894	7.39	t –		1.09	6 1.3	%	0.7%	1.59
62 Andropogon gerardii		_	<u>n </u>	P	0.0%				~~ -	5.39	1 0	.3%	0.39	6 1.0	1%	0.3%	1.09
62 Poe compresse		_	e	₽┨	0.070	+	701	9	396	18.79	6 0	6%				0.3%	1.09
62 Taraxacum officianale	_		•	P	0.5%	 "		- 20	ñ			.3%	0.39	6		0.3%	0.99
62 Artemisia campestris		_	10	P		–	+			479	6 1	2%	0.79	6		0.7%	0.99
62 Artemisia ludoviciana	_		<u>In</u>	P.	-	+				41 39	st	~~~					0.8
62 Lomatium oriental			n	P _ 2	7.8%	4-1	1.170		-+	18 79	x (3%	0.7	*	Т		0.8
				m [2.8%	<u>1</u>	3.9%			10.7	<u>~_``</u>						

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App	ndix 3 (Cont.)		ſ			drats Pres	sent		% Cove	r		1
D 1-4			-	Part94	July95	July96	All94	June95	June96	Aug95	Aug96	IMP
	Complian microcarda		m	50.0%	25.0%		26.0%					0.8%
62	Chorothamnus nauseosus	n	P	2.8%	2.8%	2.8%	2.0%		0.3%	0.7%	0.3%	0.7%
62	Silene antimbina	e	m		19.4%	16.7%	4.7%					0.7%
62	Sphaeralcea coccinia	n	P	25.0%	11.1%	13.9%	18.0%				<u> </u>	0.7%
62	Poe pratensis	8	P				20.0%	1.2%		ļ	<u> </u>	0.0%
62	epidium densifiorum	•	m	2.8%	22.2%	5.6%	6.7%		0.00	0.38	 	0.0%
62	Psoralea tenuiflora	n	Ρ		11.1%		12.7%		0.3%	0.37		0.0%
62	Androsace occidentalis	n	m	16.7%	19.4%		12.7%	┟────	0.3%	 		0.5%
62	Podospermum lacinatum	e	m		16.7%		10.7%		0.370			0.4%
62	Allium textile	n	Ρ.	19.4%	13.9%	40 494	8.070	+		<u>+</u>		0.4%
62	Erigeron flagellaris	n	P	<u>_</u>		13.470	12 7%	<u>.</u>		0.3%		0.4%
62	Lepidium campestre	0	m	5.6%			6.7%	0.3%		0.3%	1	0.3%
62	Artemisia dranunculus	n	Ρ.	5.6%	8 304	2.8%	A 79		t	1		0.3%
62	Heterotheca villosa		P_	5.0%	0.3 %	5.6%	9.39	1	<u> </u>	1		0.3%
62	Ratibida columniera	n	2	3.0 %		13.9%		<u> </u>				0.3%
62	Hypericum perioratum		2		11 1%					0.3%	5	0.3%
<u>62</u>	Delphinium viresens	1	1	2.8%			8.7%	0.6%			T.	0.3%
52	Unk. Pord -500	in.	0	<u> </u>	<u> </u>		1			0.3%	6	0.2%
<u>162</u>	Source curuper sure	In	Ē				4.7%	5	0.3%	6		0.2%
02		In	F	t	t	1	T		0.79	6		0.2%
	Desha rantans	'n	m	t	11.1%					1	1	0.2%
말	Opurtia macmitiza	In	Þ	2.8%	1	5.6%	3.39	0.3%			1	0.2%
쁥	Potentilla arecilis	'n	D	T						0.39	61	0.2%
쁥	Vennica personia	le	m	T	13.9%					_	_ _	0.2%
	Viola puttallii	În	D	2.8%			12.09	6			<u> </u>	0.2%
Left		In	10	2.8%		1	2.79	6	0.39	61		0.1%
	Schedonnardus paniculatus	In	Þ			2.8%			<u> </u>		+	0.1%
	Sitenion hystrix	În	P	5.6%	2.8%		1.39	6		<u> </u>	+	0.12
	Achilles lanulose	In	Þ				2.79	6	0.39	6		
67	Aster porteri	n	P			2.8%		0.3%	×			0.1%
62	Carduus nuttans	e	m			5.6%	6	<u> </u>		┿╼╼╼		0.1%
62	Cirsium undulatum	n	m			2.8%	6 4.79	6				0.1%
62	Lactuca serriola	e	m	2.89	<u></u>		3.37	屿		+		0.1%
62	Liatris punctata	In	P	ļ	1	2.89	6	, 	+			0.1%
62	Lappula redowskii	n	m	8.39	<u> </u>	<u></u>	3.39	b	+		-+	0.1%
62	Erysimum asperum	n	P				3.3		1 0 30	×		0.1%
62	Lesquerella montana	ln	10	<u> </u>	<u> </u>		1 0.7	0.20	(0.3			0.1%
62	Sysimbrium altissimum	10	1m				= = = =	0.37	⁰┝			0.1%
62	Opuntia fragilis	n	Į₽	2.89	<u> </u>		- 5.5	~	03	*		0.1%
62	Arenaria fendierii	17	IP.		, 		0.70	x 0.39	6			0.1%
62	Tradescantia occidentalis	17	먣	2.07	<u> </u>	+	4.0	× 0.57	¥—		+	0.1%
62	Astragalus agrestis	1			+	+	4 7	<u>x</u>				0.1%
62	Leucocnnum montanum	벁	<u>IP</u>	+	+	2.89	<u></u>			1		0.1%
62	Gaura coccinea	+	12		+	2.0	<u></u>		+	1		0.1%
62	Verbena practaeta	+	#	<u>'</u>			1.3	%			1	0.0%
62	Agropyron repens	+	H.	2 2	6	+	2.0	%				0.0%
		₩,		<u>. 2.5</u>		+	2.7	%				0.0%
	Cutiomoria somthree	ť.	1.	.	+	+	0.7	%				0.0%
¥۲	Descurainia sonhia	ť	5	n 5.6	8	1	1.3	%				0.0%
H#	Chenonodium dessicatum	ť	, tr	n	2.8	6	Τ					0.0%
Hª	Euchorbia spathulata	ť	, la	n	2.8	6	T		1	_		0.0%
	Vicia americana	-ti	n te				1.3	%				0.0%
	Polygonum sawatchense	Ť	n te	n	2.8	ж						0.0%
	Bare Ground	Ť	Ť					9.3	% 8.4	% 8.	2% 10.	0.09
Ē	Litter	1	Т					23.6	% 40.5	% 61	2% 65.	1% 0.0%
	Aaropyron smithii		n Ir	97.2	% 100.0	% 97.2	% 96.7	% 10.4	% 7.6	5% 13.	<u>1% 8.</u>	2% 20.6%
Ĩ	Allysum minus	1	e ir	n 66.7	% 88.9	% 100.0	% 60.7	% 16.2	% 5.0	7%		
Ē	Bromus japonicus	T	0 1	n 66.7	% 86.1	% 88.9	% 69.3	3% 7.4	% 9.6	76	<u></u>	<u> 10.09</u>
Tra	3 Boutelous gracilis	T	n II	19.4	% 50.0	% 30.6	% 40.7	7% 2.9	% 5.	5% 5.	976 3	<u>000 000</u>
1 a	3 Buchloe dectyloides		n li	80.6	% 52.8	% 58.3	% 82.7	7% 0.3	96 2.0	<u>76 3.</u>	<u>376 4</u>	0.19
6	3 Poa sandbergii		n [91.7	% 33.3	%	90.0	7.8	36 1 .	270		702 4 00
6	3 Agropyron cristatum		•	p 25.0	% 47.2	% 33.3	96 12.0	7% 1.6	<u>76 1</u>	3.	0 100	<u>.170 9.27</u>
6	3 Poe compresse		•	p 16.7	% 27.8	% 8.3	18.	<u>7% 1.0</u>		70 2.	070 J 604 4	204 2 41
6	3 Bromus inermis	J	•	p <u>38.9</u>	% 2.8	% 38.9	196 11.	3% 0.3	1.	<u>/70 1.</u> 70/ ~	2010	GAL 2.17
6	3 Centaurea diffusa		e	u <u>5.6</u>	% 2.8	%	22.0	<u>101</u>		170 <u>2</u> . 201	<u>* * </u>	250
6	3 Musineon divaricatum		n	p 69.4	% 38.9	96	66.	2.	0.			- 2.0
	2 Que protoporie		el	D	47.2	% 52.8	3% 9.3	3% 0.3	570			1 4.4

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Appe	ndix 3 (Cont.)		٢		% of Ours	drate Pre	sent	T		6 Cover			
		- 1	-ł	DartQ4	lub/95	hib96	All94	Ju	ine95	lune96	Aug95	Aug96	IMP
Plot S	pecies		_	13 94	5.6%	33.3%	4.0	6	0.3%	2.0%	0.3%	0.3%	2.0%
63 0	convolvulus arvensis		빌	30.6%	19.4%	44 4%	12.0	6	1.0%		0.3%		1.9%
63 /	odospermum lacinatum	-		8 3 94	10.4%	16 7%	30.75	6		0.3%	0.3%	0.3%	1.6%
63 5		-	21	13.0%	8.3%	27.8%	20.0	6			0.7%		1.3%
63 /	ster facaus	-	2	8 394	0.0 ~	21.07	12.0	6		0.7%		1.0%	1.0%
63 /	(oelena macranina	<u>n</u>	<u>P</u>	0.570			53	6			0.3%	1.3%	0.9%
63 (arex nellopnylla	<u>n</u>	믝	11 104	16 7%	16.7%	47	6		0.3%			0.9%
63 5	stipa vindula	<u>n</u>	P	11.170	10.7 2	2.8%	140	κī-	+		0.3%	1.0%	0.9%
<u>63</u> /	soralea tenumora	<u>n</u>	P	2.070	44 494	13.0%	60	ž†-		0.3%	0.3%		0.8%
63 (Sutierrezia sarothrae	n	P	42.09	22.26	284	187	<u> </u>					0.8%
េាខ	Erodium cicutarium	0	m	13.970	42.00	2.070	10.7	21-	0.6%			<u> </u>	0.6%
63 [omatium oriental	n	P	11.1%	13.970		0.2	21-	0.00				0.5%
63 /	Amica fulgens	n	P		11.170		107	<u>-</u>	0.0%	0.3%			0.5%
63 1	/icia americana	n	P	5.6%		I	10.7	<u>- 15</u>	0.070	0.5%	<u> </u>	 	0.4%
63/	Allium textile	n	р		13.9%	0.00	0.0	-				<u> </u>	0.4%
63	Opuntia macromiza	n	Р	8.3%	11.1%	8.3%	150	<u>- -</u>			<u> </u>	ł	0.4%
63/	Plantago patagonica	n	m	5.6%	5.6%		15.3	<u>- 1-</u>			<u> </u>	╂────	0.3%
631	Achillea lanulosa	n	Ρ	11.1%		8.3%	10.7	<u>~</u> -			╂────	<u> </u>	0.3%
63 (Camelina microcarpa	Ð	m	19.4%	8.3%		1.3	2-				<u> </u>	0.3%
63	Medicago sativa	e	P			2.8%	2.0	≈ -	0.0%		├ ───	 	1020
63	Schedonnardus paniculatus	n	P			8.3%	4	ᆗ			 	+	
63	Sitanion hystrix	n	P	2.8%	8.3%	L	1.3	2			 	0.20	0.270
631	Erigeron divergens	n	m			L	1.3	*				1 0.39	
Fai	Grindelia squarrosa	n	m			8.3%		_			↓	╉───	027
- al	Heterotheca villosa	n.	P				9.3	%				+	0.2%
Fat	Androsace occidentalis	n	m	8.3%			12.0	%			I	_	0.2%
EST.	Bouteloua curtipendula	n	D						0.3%				0.1%
	Bromus tectorum	e	m				6.7	%			_		0.1%
	Biolinus restances	Ā	0			2.89	5						0.1%
	Vuleia estofiore	n	m	5.6%		1	5.3	%					0.1%
문왕		i.	5		1	1	3.3	%					0.1%
63	Anemisia myida		i m	<u> </u>	<u> </u>	<u> </u>	6.7	%			T ·		0.1%
63		-		2.8%			5.3	%					0.1%
63	Lactuca semola	E	-				+	<u> </u>		0.39	6	T	0.1%
63	Tragopogon dubius		<u></u>	2 894			140	96				1	0.1%
63	Lepidium campestre	e	Im	2.07		+		a l	0.3%				0.1%
63	Opuntia fragilis	In	₽.			+	1 1	196	0.0.0				0.1%
ഒ	Calochortus gunnisonii	In	P	0.00		+		a l			+	<u> </u>	0.1%
63	Gaura coccinea	n	P	8.37				~		╂───	+		0.1%
୍ଟୋ	Unk. Forb -904	ļu	u	∔	2.07	<u></u>	+	102		 	+		0.0%
ങ	Artemisia ludoviciana	In	₽.	_	+		- 0.	70		 	+		0.0%
୍	Liatris punctata	In	P	1	<u> </u>	+		70		<u> </u>			0.0%
ങ	Nothocalis cuspidata	lu	P	L		+		270		<u> </u>	+		0.0%
63	Taraxacum officianale	e	Р	1			<u>1</u> 2.	2		<u> </u>	+	+	0.0%
ഒ	Draba reptans	n	m				2.	776		┨────			0.0%
63	Astragalus agrestis	İn	P		1		2	776		_	+		0.0%
ଶ	Hypericum perforatum		P		1	1	0.	(*)		 	+		0.0%
63	Oxybaphus linearis	In	P	5.69	6	1	2.	7%		╂			0.0%
ន	Plantago lanceolata		P				0.	7%		 			0.0%
E E	Drymocallis fissia	I.	P				0.	7%				<u> </u>	0.0%
Ē	Rose arkansana	ſ	ιP				0.	7%		1			0.0%
	Bare Ground	T	Т						16.2%	10.9	% 10.5	% 9.5	0.0%
	Litter	T	T	T					28.5%	50.2	% 55.1	% 62.8	0.0%
	Aaroovron smithii	fr	1 P	72.29	6 91.7	6 97.2	% 85.	3%	23.19	10.3	% 16.2	% 10.7	% 26.3%
	Centeures diffuse	Ť.	1 u	11.19	6 19.4	5.6	% 47.	3%	3.69	4.6	% 7.3	% 7.0	9.9%
64	Alberta minus	t		83.39	6 83.3	\$ 88.9	% 67.	3%	12.39	6 3.3	%		9.7%
104	Remarks in an and a second second		1	80.6	6 86.1	6 94.4	% 52	7%	7.09	6 6.3	%		9.6%
		t		25.0	6 36.1	× 33.3	% 34	7%	1.79	6 2.6	% 3.0	1% 2.3	5.9%
	Page amtensis	ť		25.0	6 75.0	52.8	% 16	7%	1.99	6 0.7	% 2.6	% 0.	7% 5.6%
64	Poutoloure emeilie	+	;†ř	5.0	6	139	% 28	7%	3.39	6 2.3	% 1.3	3% 4.0	4.8%
64	Bouteioua gracilis	+	12	2 2	ž		14	0%	0.89	6 3.0	% 2.0	9% 1.	7% 3.19
64		+	<u>+</u>	<u></u>	~	«	57	0%		1	0:	96 1	3% 1.8%
64	Buchioe dactyloides	+	Η	· 		~	13	7%	0.39	6	1 20	0 1%	7% 1.79
64	Psoralea tenuitiora	+"	n HE	1 20 0	x 10.4	a 42 0	교	302	2.20	6	_ <u></u>		1.59
64	Bromus tectorum	4	e lu	n 30.6	a 19.4	70 13.5		070	0.20	x 17	<u>96</u>		1 39
64	Convolvulus arvensis	4	<u>e f</u>	19.4	7 <u>6.7</u>	70 13.		200	10.3			396	1 39
64	Potentilla gracilis	4	n ļs	2	16.7	70 10.7	~	<u> </u>	1 1 2				1 29
64	Poa sandbergii	4	n js	47.2	*		-140	.070	1.1		794	+	304 4 00
64	Koeleria macrantha		nlp	2			-134	.0%			78	_ <u>+_</u>	4 00
64	Arnice fulgens	I	n j	<u> </u>	% 13.9	%	12	.7%	0.8	<u>» 0.7</u>	- 14	╼╋╼╤	1.07
6	Aster falcatus	I	nI		5.6	%	14	.7%	0.8	<u>></u>			U76 1.0%
	Boudeloua curtipendula	T	n li	>						1	2.	0% 0	3% 0.9%

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Appe	ndix 3 (Cont.)	_		8	of Oundra	Its Presen			6 Cover			\mathbf{H}	[
-Hold	hacies		Parto	4	N95 Ju	1496 All	3	une95	Inne96 /	26 26	80 7		į
12	epidium cempestre	Ε			13.9%	19.4%		8	Ť		1		2
641	rocium cicutarium	E	ន	8	8.3%	13.00		0.3%	t		-		Ŕ
64	Podospermum lacinatum	E	ľ	78	R 3	10 494	40%		ſ			0	8
2	araxecum officianale	<u>d</u> !	-	5	RD	83% 1	2.7%	ſ			0.3	3% 0	% 9
8	ngeron divergens	E E		╀	5.6%	16.7%							8
8 2	I agopogori uuulus Viisineon divencetum	6		3%		2	800	0.6%	T		\downarrow		
5 3	achillee lanulose	<u> </u>			8.3%	5.6%	5.3%	0.3%	T			1	
2	Aristide purpuree	Δ	ľ	-	20.0	2 200	8 8 5 4 0 4		T		; 		4%
2	Stipe vindule	4		8	RCO	RD'C	200	0.3%	T		Ļ	ľ	84.
2	omatium oriental	4	3	e S	╉	+	73%		0.3%		ö	3%	4%
g	Gutierrezia sarothrae	-		\dagger	╀		2.0%				0	3%	.4%
8	Astragalus agresus	49		┼	2.8%	2.8%				0.3	8		3%
3	Ambrosie psilostacnye	4		╋			8.08		0.3%			-	3%
3				╞	╞	2.8%	2.7%				0 -		3
3		18		┢	2.8%	8.3%	0.7%						0.3%
8		4		╀	8.3%				0.3%			-	3%
8		49		╀			9.3%				4		2%
8	Andropoport gradient	9	Ľ	3.3%	2.8%	2.8%	2.0%				╡	╉	
8		43	ľ	800		-	12.0%						²
8	Unk. Grass - 130	10	1	-	ŀ		4.0%		0.3%				0.2%
8		12		-			9.3%				┥	+	
8				╞			9.3%		·		┦	+	
8	Androseve uccomany	19		┢		5.6%					-		
8 2		12		┢						┛		R	
8	I Ucual graume	12					3.3%				-	+	
8	Alijum tekure		Ļ	╞			0.7%			ö	ž	╉	
8				┢╴			4.7%				╡	╉	
8	Conyza caracersos			┢	2.8%				·		-	┥	
8	Lactuce serrore	1	Ļ	┢						ö	8	┥	0.1%
8		4		┢			3.3%			_		┥	
8		1		t		ŀ	4.0%				-	+	2 1 0
8			Ļ	t			3.3%				-	┨	
8	Camerina microcarpa			t	T		4.0%				_	-	2
8	Drabe repairs			t	T	ſ	6.7%					-	0.1%
8	Lesquereia monana			ſ		ſ	4.7%	0.3%		_			0.1%
8	Dalea candida			t			3.3%						0.1%
8	Spheeralcea coccinia		$\frac{1}{2}$	T			53%			Ļ	-		0.1%
2	Denothera brachycarpa			T	T	ſ	4.7%						0.1%
8	Plantago paragonica			201	28%		20%		_				0.1%
2	Acetosella vuigens			2	20.4						-		0.1%
8	Rumex crispus		1	E Rec		2.8%	1.3%						0.1%
2	Verbena bractaeta			80.0	Ţ	2	4 7 %			-			0.1%
2	Unk. Forb -910	키	╅	1						-	╞	┢	0.0%
2	Vulpia octofiora	2	Ē	1	T	T	2 4 6			╞	-		0.0%
g	Artemisia ludoviciana	2		T	T	T				Ļ	┞	ŀ	800
2	Heterotheca villosa	C		T		T				╞	$\frac{1}{1}$	t	0.0%
g	Retibide columnifera	c			T	T	0.7%			┡	┞	╞	0.0%
8	Lappule redowskii	- 1	E	·			0.7%			╞			0.0%
۵	Lithospermum incisum			T			1 3%			_	┝		0.0 %
۵	Opumbe regins	= (T			0.7%						%
2		0		T			6.79			-			800
٥	Chenopodium oessicatum	= 1		T			1 39		-				0.0 %
الف	t Daled purpured						2.79						80
	a Oxyrropis laimberui	- 9	$\frac{1}{2}$				2.7	5			-		800
٥	4 Vicia americaria						0.79			-			800
ام	A Hypencum perioratum	0					1.39	5					800
ا ف	4 Celochorus gunnisomi	=					079			┝			0.0%
	4 Zygadenos Venenosus	-					13	1	-	$\left - \right $			80.0
١	4 Gaura coccines	=					2.79		┞	┝			80 0
٥	4 Enogonum alatum						200			-			0.0%
٥	4 Rose erkansane	=		2			13		╞	┝			0.0%
٩	4 Solanum rostratum	막		20.0			20		┞	┝	┝		0.0%
٩	4 Unk. Forb -303	ᅪ						13.1	% 16.2	28	4.9%	16.3%	0.0%
<u>م</u>	4 Bare Ground		+					22	% 46.4	8	7.0%	51.3%	0.0%
<u>۳</u>	4 Litter	-	+	01 700	07.7%	100 094	86.7	× 12.0	8.0	1 R	6.8%	11.0%	19.6%
<u></u>	S Agropyron smitriu	4	1	19 4%	58.3%	100.09	69	\$ 15.9	% 8.6	80	Π		8.5%
<u>"</u>	5 Allysum minus	위리	t	23.3%	69.4%	77.8%	64.0	8 4.5	58 1 5	96	5.3%	3.7%	8.0%
-		-		5								L	

Appendix 3 (Cont.)														
<u></u>	0		-	Part94		July96	Ali94	June95	June96	Aug95	Aug96	IMP		
Plot	Species			25.0%	19.4%	13.9%	40.0%	3.0%	1.9%	7.9%	2.3%	5.9%		
00		-	-	69.4%	44 4%	63.9%	42.7%	3.6%	3.8%	2.3%	2.0%	5.7%		
- 221			造	100.0%	91.7%	97.2%	60.0%	1.2%	3.2%	0.3%		4.9%		
65	Plantago palagonica	-	2	5.6%	22.2%	36.1%	26.7%	1.2%	3.2%	1.0%	4.0%	4.5%		
65	Bouteioua gracilis		m	61 1%	80.6%	2.8%	58.0%	8.7%	1.0%			4.1%		
80				50.0%	61.1%	58.3%	27.3%	1.8%	1.3%	2.0%	1.0%	4.0%		
63	Anemisia mgida		5	22.2%	25.0%	41.7%	25.3%		0.6%	4.3%	2.3%	4.0%		
65	Grindella squarrosa	10		2.8%	11 1%	36 1%	26.7%	6.0%	5.1%			3.7%		
65	Bromus japonicus			2.0 ~		94 4%	1.3%		2.9%		3.0%	3.5%		
65	Engeron avergens	n	m		22.2%	50.0%	9.3%	3.6%	5.1%			3.4%		
65	Bromus tectorum	5		88 9%	58.3%	55 6%	35.3%	1.5%	1.0%	0.3%	0.3%	3.0%		
65	Sphaeraicea coccinia	1	2	00.07	30.6%	27.8%		2.1%	1.0%	1.0%	0.3%	2.0%		
50		1.	2	25.0%	194%	11.1%	29.3%	0.6%	0.3%		0.3%	1.3%		
65			2	22.0%	47.2%		11.3%	1.2%		0.3%		1.2%		
65	Chenopoolum dessicatum	n.	m	- 22.2.10	41 - 2	33 3%	4.0%	2.7%				1.1%		
65	Poa pratensis		P_		25.0%	33.3%	2.0%		1.0%	1		1.1%		
65	Poa sandbergli	<u>#</u>	<u>P</u>		20.0 %		6.7%	1.5%		0.3%	0.3%	0.7%		
65	Vicia americana	In	P			11 1%	12.0%		0.3%	0.3%	5	0.6%		
65	Poa compressa	e	<u>Р</u> .	5.6%	16 7%	13.9%	7.3%		0.3%			0.6%		
65	Guterrezia sarotrae	11	P	32.204	10.1 10	2 84	19.3%	<u> </u>	0.3%	0.3%	,	0.6%		
65	I araxacum omcianale	10	P	33.370	25 0%	13.0%	<u> </u>	1		1	1	0.6%		
65	Verbena bractaeta	P	100	2.94	22.00		3.3%	0.6%	1	1	1	0.5%		
65	Sysimbnum anssimum	le.	1m	2.070	30 64		5 3%	1	<u> </u>	1		0.5%		
65	Silene antimina	P	Im	2.070	50.070	12.04	<u> </u>	<u> </u>	† — ·	0.79	5	0.5%		
65	Convolvulus arvensis	1e	ĮP.	10.49	11 10 10	11 10	10.7%				1	0.5%		
65	Astragalus agrestis	1n	ĮΡ_	19.470	11.170	2 90	26.7%	 	 	1	1	0.5%		
65	Androsace occidentalis	IU	Im	10./%	E CP	2.07	12 20	1	t	+	1	0.3%		
65	Lomatium oriental	<u>In</u>	Į₽.	16./%	5.070	<u> </u>	13.5%	<u>'</u>		0.39	0.39	0.3%		
65	Artemisia ludoviciana	n	<u>₽</u>	Ļ	E 00/	40.00	<u> </u>					0.3%		
65	Tragopogon dubius	e	m	L	5.6%	13.9%	45.20		<u> </u>	╈		0.3%		
65	Lappula redowskii	n	m	22.2%	1 1 1 1 1		10.37	0.3%	+		<u>+</u>	0.3%		
65	Descurainia pinnata	In	m	L	11.1%	ļ	1.37	0.37	<u>'</u>	_	+	0.3%		
65	Draba reptans	In	m	L	8.3%	<u> </u>	12.0%	4	<u> </u>	+		0.3%		
65	Lepidium densifiorum	e	m	8.3%	8.3%	5.6%	0.7%	<u>}</u>		+-		0.3%		
65	Collomia finearis	n	m		8.3%	 	10.0%	2	+	+	+	0.2%		
65	Vulpia octofiora	n	m	2.8%	11.1%		0.77	<u> </u>		+	+	0.2%		
65	Musineon divaricatum	In	P	13.9%	<u></u>		13.37	<u> </u>		+	0.39	6 0.2%		
65	Aster porteri	n	Į₽.		ļ			, 	0.20			0.2%		
65	Psoralea tenuifiora	In	P	L	1	2.89	4.0%	박	0.37	•		0.2%		
65	Polygonum sawatchense	<u> n</u>	m		11.1%				+	+		0.10		
65	Juncus arcticus	In	P.				3.39	6	. 	+		0.1 2		
65	Agropyron repens		P			<u> </u>	_	0.69	<u> </u>	<u> </u>		0.17		
65	Bromus inermis	e	P		<u> </u>	<u> </u>	<u> </u>	0.39	6	. 	+	0.17		
65	Festuca pratensis	e	P			<u> </u>		<u> </u>	0.39	<u>></u>		0.17		
65	Poa arida	n	P				4.09	6				0.17		
65	Arnica fulgens	In	P	2.89	6	1	5.39	6	. 	+		1 0.19		
65	Cichorium intybus	e	P				3.39	6 0.39	<u> </u>			0.19		
65	Heterotheca villosa	In	ΙP	8.39	6		4.09	6	_ _	+		0.19		
65	Lactuca serriola	e	i In		2.89	6	6.09	<u> </u>				0.19		
6	Podospermum lacinatum	e	n la	1			5.39	6 0.39	6	- i		0.19		
6	Camelina microcarpa		n	1	2.89	6	0.79	*		_ _		0.17		
6	Lepidium campestre	e		1	1		5.39	*	1			0.19		
6	Potentilla gracilis	Ir	1 p		5.69	6				_ _	_	0.1		
Ĩ	JUnk Forb -909	Ť	i lu				4.7	%			_	0.19		
1 a	5 Aristida purpunsa	T,	10		2.89	6						0.0		
	Si Koeleria macrantha	Ť,	1 lo	1	1		2.0	%				0.0		
	Des sn	-ti	j fu	5.69	6		1.3	%		I		0.0		
100	Silink Grass - 191	-ti	1 lu	8.39	6	1	2.0	%				0.0		
	5 Allium textile	Ť,	, tr			+	2.7	%				0.0		
F	Amhmeia artomosifolia				-	1	2.0	%				0.0		
		÷	ار		+	+	2.0	%				0.0		
		-	÷Ť	<u>.</u>	289	*	-1	-1				0.0		
6		-ť	-#	\ 		~ <u> </u>	07	%		-	1	0.0		
16		-#	-#	<u></u>			-1-30	96	-	-1	-1	0.0		
ļ		-+	<u>"</u> †		×	+	- 1 07			-1		0.0		
6	Nothocans cuspicata	-#		<u>(~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~</u>	~		- 07			-1		0.0		
6	5 Retibide columnitera	+		<u></u>	×		-+	s.	-+			0.0		
6	5 Coryphantha missounensis		<u>n 1</u>	2 - 2.8	70 M			<u>a</u>				1 00		
6	5 Cerastium arvense	-+	nμ	2.8	<u>~</u>		-+					0.0		
6	5 Tradescantia occidentalis	_	<u>n l</u> i	<u></u>				70						
	5 Medicado Iupulida	- į	e li	ml	4	l	1.3)76 (ł	L	1	U.U		
App	endix 3 (Cont.)	5		Τ	% Cover					— —]				
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			-1	Part94	July95	July96	A1194	J	une95	June96	Aug95	Aug9t		
Plot	Species		u l				0.79	*				ļ		응원
65	Tritolium nyohbum	Ă		2.8%			0.7	*					+	
65	Hypencum pencialum	n	Ē				0.7	*				\	+ *	0%L
65	Gymnostens parvula:		0				0.7	<u>×</u>				╄		
65	Acetosella vulgans		m		2.8%						10.00			
65	Veronica peregnina	ľ							14.7%	9.3%	13.2%	0.0		
65	Bare Ground								11.7%	38.3%	43.2%	62.1	20 0	200
65	Litter		5	100.0%	100.0%	100.0%	100.0	%	33.4%	31.9%	17.7%	26.2	36 41	370
66	Dactylis giomerata	1	10-	91.7%	100.0%	97.2%	98.0	%	14.3%	8.0%	2.0%	4.3	10	200
66	Agropyron smithi		In .	13.9%	66.7%	86.19	19.3	%	3.6%	13.7%	1.7%	11.3	13	
66	Trifolium pratense		le-	50.0%	75.0%	66.79	56.0	96	3.6%	2.6%	1.3%	1.3		270
66	Convolvulus arvensis	-	15-	75.0%	58.3%	69.49	6 60.7	96	4.5%	2.9%		0.3	5% /	22
66	Taraxacum omcianale	10	15	11 196	36,1%	36.19	6 15.3	%	1.0%	0.6%	0.39	6 0.3	3% 3	.370
_66	Plantago lanceolata	H.	ال ا-				0.7	96	1.0%	2.2%		6.0	7% 2	4%
66	Medicago sativa	10	ᄩ	5.6%	19.4%	13.99	6 8.0	7%	1.3%	0.3%				.0%
66	Tragopogon pomiolius	1ª	1-	11 1%	5.6%	5.69	6 10.0	7%			0.39	6 0.3	3% 1	.0%
66	Cirsium arvense	틒	The second	8.39	13.9%		16.0	7%	0.3%					.0%
66	Camelina microcarpa	10	1	<u>+ - 0.0 ^</u>	10.0 %		1		0.3%	0.3%		11	3% 0	1.5%
66	Bromus inermis	벁	먇	+	11 19	1	5.2	3%					10	1.5%
66	Ambrosia psilostachya	쀼	12	+	16.79	1	1			0.3%		<u> </u>	-	1.5%
66	Unk. Forb -852	벁	12	+	+			-1	1.0%		0.39	6).4%
66	Poe pratensis	벁	12	+	5.69	2.8	% 0 .	7%	0.3%			0.	3% (1.4%
66	Aster faicatus	뿌	HP_	5.69	<u></u>	+	10	0%						1.3%
66	Lactuca sernola	+e	1-	5.07	<u>' </u>	+	5	3%	0.3%	0.3%				1.3%
66	Podospermum lacinatum	18	1	42.00	d`	+	5	3%		0.3%				0.3%
66	Rose arkansana	뿌	ΗP	13.97		+	+					0.	.7%	0.2%
6	Agropyron cristatum	-1-	ΨP	+			3	3%		0.39				0.2%
66	Medicago lupulina	_1	177	¥		+				1		0	.3%	0.1%
6	5 Stipe viridula	1	ЦP		+	+			0.6%		T			0.1%
6	5 Artemisia frigida	I	ιP	·		- 28	~	_	<u> </u>	1	1.			0.1%
6	6 Solidago gigantea		ιp			- 2.0	~	396	0.39	<u>, </u>				0.1%
6	6 Rumex crispus	-	P	5.64	6		╶┼╌╬	394			+			0.1%
6	6 Unk. Forb -912	1	1 P	5.6	2.8	<u>></u>	-+	794		+				0.0%
6	6 Grindelia squarrosa	<u>_</u> 1	1 M	n 2.89	6			204		+	+	_		0.0%
6	6 Unk. Forb -911	1	<u>u p</u>	2			<u>+</u> -'		13.39	6 10.99	6 15.4	% 6	.6%	0.0%
6	6 Bare Ground		_				-+		20.89	6 25 29	6 60.9	96 40	.7%	0.0%
6	6 Litter								7 59	6 47	6 7.8	3% 8	.9%	8.5%
10	1 Poa compressa		<u>e r</u>	>	25.0	10 4/.4	270		609	6 4 19	6 6.3	3% 7	7.3%	8.2%
110	1 Aster faicatus		n is	2	86.1	83.	270		4 19	72	× 3.	1% 5	5.6%	7.2%
10	1 Poa pratensis		0 1	2	69.4	% 80.0	270		2.00	2 72	× 50	0%	2.0%	6.7%
110	1 Carex heliophylla		n j	s	69.4	% 100.	1%		3.07	2 35	X A	196	5.3%	6.5%
110	11 Andropogon gerardii		nlj	e	38.9	% 4/.	~~		1 2 8	2 25	x 4	4%	4.0%	5.5%
110	1 Artemisia Iudoviciana		n	<u> </u>	69.4	% 75.	100		2.5	× 19	x 3	8%	2.3%	4.6%
10	Agropyron smithii		n	e	72.2	% 80.			2.5	× 13	x 2	8%	3.0%	4.1%
10	1 Ambrosia psilostachya		n	<u>еі </u>	55.6	36 75.	220		2.0			296	1.0%	3.2%
110	1 Rosa arkansana		n	P	52.8	52.	22		2.0		~ 			2.5%
Hi	1 Bromus jeponicus		e	m	58.3	58.	370		+ <u>4.0</u>		si n	6%	+	2.2%
H	01 Bromus inermis		•	P					+- <u>/.</u>		a 1	396	1.7%	2.1%
- H	01 Stipa spartea		n	p	36.1	96 27	0%		1 0.3			6%		1.9%
H	01 Achilles lanulosa		n	P	27.8	3% 44	4%		1 42			6%	1.7%	1.8%
H	01 Boutelous curtipendula		n	P	47.3	2% 36	1%					694		1.8%
片	01 Tracopogon dubius		e	m	50.0	36 36	.1%	_				<u>~~</u>	†	1.8%
남	01 Allysum minus		e	m	66.	7% 69	.4%		- 0.6			Ger 1	0.3%	1.6%
H	01 Koeleria macrantha		n	P	33.	3% 47	.2%		0.6			204	0.3%	1.5%
H	01 Stipe viridula		n	P	36.	1% 44	.4%			0.0			0.7%	1.2%
H	01 Bourteloua gracilis		n	P	16.	7% 8	.3%			1.0		201	0.702	119
Ľ	01 Helianthus naidus	_	In	P	5.	6%			0.9	7% 2.	270 0	<u> </u>	0.77	1 10
- H	01 Lietris punctata		In	P	36.	1% 36	.1%		0.:	5% <u>0.</u>	070			0.0%
- H	01 Scorpholus Asper	-	In	P	13.	9%			1.	9% O.	<u>a vol</u>	1.370		0.8%
- E	01 Reserves tectorsim	-	le	m	2	8%			2.	2% <u>0</u> .	9%		3.00	0.0 %
- H	01 Mublechemia wrightii	-	'n	0						0	6%	 +-	2.3%	0.070
L L	101 Municipia wigna	-	Ť'n	161	22	2% 10	6.7%					0.3%	0.3%	0.070
μ	101 Sympron alpos occorritais	-	12	lm –	33	.3% :	5.6%					0.3%		0.070
- H		_	Ť	10					Ō.	9% 0	.9%			0.070
	101 Lamyrus eucosmus		╏	161		-1-				0	.6%	0.6%	0.3%	0.4%
ļ	101 Dactyrs giomerata	_	╞	161	16	.7%	5.6%			0	.3%	0.3%		0.4%
t			벁	151	11	.1%	2.8%					[0.7%	0.4%
	101 Gnndella squarrosa	_	+#			3% 1	3.9%		0	.3%		0.3%		0.4%
l	101 Psoralea tenumora	_	+-	1 <u></u>	 							0.9%		0.3%
[101 Heterotheca villosa		- <u>†</u> n						1-		.3%	0.6%	0.3%	0.3%
	101 Colidado DBDB		- 10		1	1		_		the second second second second second second second second second second second second second second second s		_		

Appendix 3 (Cont.)											ł	
		_		D	% or Qua	drats PTB	Alla	lune95	June96	Auro95	Aug96	IMP
Plot	Species		_	Pares	10 494	2 894	74134	100.000	0011000			0.3%
101	Astragalus nexuosus	n	P		12.0%	13.0%						0.3%
101	Lupinus argenteus	n	P		2.9%	13.3 %				0.9%		0.3%
101	Thermopsis divancarpa	Π.	P		44 4 94	13.0%						0.3%
101	Scutellana brittoria	n	P		0.20	13.5 %		0.3%				0.2%
101	Taraxacum officianale	e,	P		0.370	41.10/		0.5 %				0.2%
101	Mertensia lanceolata	n	P		5.0%	5.6%					0.3%	0.2%
101	Onosmodium molle	n	Ρ		5.6%	2.0%			0.3%			0.2%
101	Lepidium campestre	e	m		5.0%	2.070			0.3%	0.3%		0.2%
101	Convolvulus arvensis	e	P				┣	0.28	0.5 %	1022		01%
101	Aristida purpurea	n	P				┣━━	0.370		<u> </u>	╂────	0.1%
101	Muhlenbergia montana	n	Ρ			8.3%	 		 	0.2%	 	0.1%
101	Sporobolus airoides	n	P							0.378	 	0.1%
101	Stipe comata	n	P			5.6%	L		0.3%	ļ	ļ	0.170
101	Lomatium oriental	n	P		8.3%				L		<u> </u>	
101	Arnica fulgens	n	P					0.3%	L			0.170
101	Aster porteri	n	Р							0.3%		0.1%
101	Gutierrezia sarothrae	In	P		8.3%				<u> </u>	L		0.1%
101	Ratibida columnifera	n	D		2.8%	8.3%						0.1%
101	Solidago sparsiflora	u	u		1					0.3%	·	0.1%
	Ensimum asnenum	n	p		· · · · ·	8.3%	E					0.1%
101	Opuntia macminiza	n	D		2.8%					1	0.3%	0.1%
쁥	Silone antinhine		Ē		2.8%	8.3%	1					0.1%
		Ē	<u> </u>	<u> </u>	83%	t	1					0.1%
101	Lygadenos venenosus	1	12		5.5%		1-		1		1	0.1%
101	Polygonum sawatchense	벁	Im	 	2 284	 	+		1	1	1	0.1%
101	Androsace occidentalis	n	III.	 	0.370	 	+-		0.39	1	<u>† </u>	0.1%
101	Drymocallis fissia	n	ĮP_		5.00	5.00	╂───		<u> </u>	<u>'</u>		0.1%
101	Viole nuttallii	n	P_	L	5.0%	<u> </u>	<u>'</u>		╉╍╍╍╍╸	╂────		0.0%
101	Allium textile	n	P	L	2.8%						+	0.0%
101	Artemisia dranunculus	n	IP.	· · ·		2.8%			<u> </u>	──	+	0.0%
101	Packeria pseudoaureas	In	P			2.8%	4			<u> </u>		0.0%
101	Sysimbrium altissimum		m		2.8%				 	<u> </u>		
101	Euphorbia spathulata	n	m		2.8%				<u> </u>	4	+	0.0%
101	Leucocrinum montanum	'n	P			2.8%						0.0%
101	Plantago lanceolata	e	Ip			2.8%						0.0%
101	Bare Ground	T	1-			T		8.59	3.5%	5.69	6 2.09	6 0.0%
101	Litter	1	t				Т	27.09	42.59	41.39	6 48.79	<u>6 0.0%</u>
100	Poe pretensis	te	10		86.1%	75.09	5	17.09	8.59	7.59	6 4.59	6 11.3%
102		1n	15	1	66.7%	83.39	6	2.59	5.49	2.39	6 11.69	6 8.1 %
102	Ambrosia psicosacriye	1-	The second		77 8%	77.89		5.79	4.49	5 7.29	6 5.19	6 7.9%
102	Aster laicalus	t:	뚢	+	91 7%	77 89	6	6.39	6 4.79	6 7.29	6 2.49	6 7.5%
102	Anemisia ludoviciaria	t:	₩.	+	30.6%	8 39	<u>i</u>	3.29	5 3.89	6 13.89	6 3.19	6 6.3%
102	Poa compressa	튼	뽄	+	16.7%	80.69	<u>.</u>	1 39	6 4.49	5.99	6 3.19	6 5.2%
102	Carex neliophylia	10	10	<u> </u>	27.89	27.89	<u>i</u>	1.69	6 289	5.69	6 5.59	6 4.7%
102	Andropogon gerardii	10	P	<u> </u>	21.07	50.00	2	8.89	2 2 89			4.5%
102	Bromus japonicus	₽	Im		09.47	50.07	?	3.29		4 4 99	1 2 19	× 44%
102	Agropyron smithii	1	₽.	<u> </u>	00.3%	44.49	;}──		4 4 20		0.2	x 2 3 4
102	Tragopogon dubius	e	Im	4	30.69	b 12.29	₽	0.97	1.0	2 200	× 24	2 2 2 2
102	Helianthus rigidus	ļn	P		1	+		- 1.3	2 3.3		<u>x </u>	2 2 2 2
102	Solidago nana	In	P	4	16.79	30.69	<u>•</u>				×1	2.0%
102	Psoralea tenuifiora	n	P		8.39	6 47.29	b		0.3			
102	Listris punctata	In	P		25.09	6 52.89	6		0.6			70 1.0%
102	Achillee lanulosa		P		22.29	61		1.3	b <u>1.6</u>	0.7	<u>p 0.3</u>	<u>70 1.3%</u>
102	Astragalus agrestis	П	P		25.09	6 16.79	6	0.9	<u>% 0.3</u>	<u>5 0.3</u>	<u>» 0.3</u>	<u>> 1.1%</u>
100	Bouteloua curtipendula	F	P		16.79	6 33.39	x	0.6	<u>% 0.3</u>	<u>× </u>		1.0%
100	Stipe viridule	Tr	ТÞ	1	13.99	6 5.6	%	1.9	%	0.7	%	0.89
102	Lacture seriole	T,	10	1	36.19	6 11.1	*	0.3	*			0.8%
102	Alberton minus	t	1	1	38.99	6 2.8	*	0.9	*			0.8%
102		Ŧ,		+	+				1	1.0	% 1.4	% 0.6%
102		+	ť	+	+				0.9	% 1.3	% 0.3	% 0.6%
102	Aster porten	ť	ΗP		6.69	2 23	<u>~</u>	03	%	1	0.7	% 0.59
102	Gnndella squarrosa	4	1	<u>'</u>		~ 0.3	~	- 00		1 03	% 07	% 0.59
102	Helianthus pumilus	4	ЧP	· · · · · · · · · · · · · · · · · · ·			-		21			0.59
102	Camelina microcarpa	-	<u>, Iu</u>	¹∔	19.4	<u>o 2.8</u>	~		<u>~</u>	-+		- 0.07
102	Bromus inermis		> ₽	4	8.39	<u>></u>	_		<u>~</u>	. +	+	0.47
102	Dactylis giomerata) P	· I	1				<u>0.6</u>	70	<u> </u>	70 U.47
102	Artemisia dranunculus	1	ηp		8.3	<u>5 2.8</u>	%		_	_	0.7	70 0.49
10	Carex sp.	1	1 p		16.7	*			-	_		0.39
100	Bromus tectorum	T	a In	n	5.6	*		0.9	%			0.39
He	Koeleria macrantha	ti	i le	<u></u>	2.8	6 2.8	%		T		0.7	/% 0.39
104		-ť	÷۲,	<u></u>	+		-1-				1.0)% 0.3°
10		ť	÷	·		104	<u>s</u> t-			1		0.3
1102	Liuduma macromiza	- Į I	• 1 F	· 1	1	1 13.4	~1					

Pitd Species Part94 July35 July36 All94 June95 June95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95 Aug95	Appendix 3 (Cont.)	1	% of Ouadrats Present % Cover									
Proc Species n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n <t< td=""><td></td><td></td><td></td><td>Part94</td><td>July95</td><td>Julv96</td><td>AJ194</td><td>June95</td><td>June96</td><td>Aug95</td><td>Aug96</td><td>IMP</td></t<>				Part94	July95	Julv96	AJ194	June95	June96	Aug95	Aug96	IMP
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