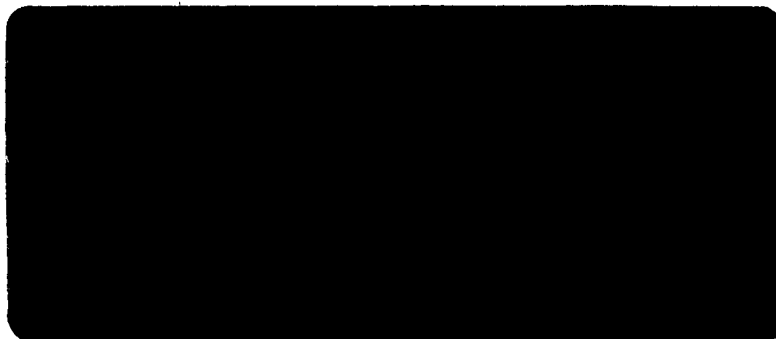


Prairie Dog Vegetation Monitoring Tran:
OSMP Studies 3599

Study



ESCO Associates, Inc.



ESCO

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1997

ESCO

Report of Findings

Prairie Dog Vegetation
Monitoring Transects - **1997**
City of Boulder Open Space
Boulder, CO

Prepared for:

City of Boulder Open Space Dept.
66 So. Cherryvale Rd.
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May 1998

INTRODUCTION

Studies reported here were undertaken in June 1997 with the intent of documenting effects of prairie dog occupation on plant communities at various locations throughout the City of Boulder Open Space properties. Objectives were to establish and conduct the first year's data collection from permanently marked sample sites that could be revisited in future years to study trends in vegetation cover for areas occupied by prairie dogs as well as adjacent unoccupied areas within the same plant community.

This document is a data report for 1997 observations. No interpretation or discussion of results is included.

METHODS

Sample Location

Samples were located subjectively with the goal of establishing pairs of samples within individual plant communities, with one sample in a prairie dog
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the other in an adjacent area as similar as possible prairie dogs. Sample locations are shown on Maps 1 and 2. At each sample location, the end points of the sample transect were marked by a metal stake driven flush with the ground (for use with a metal detector) and a 1/2 inch round brown

A total of 46 samples were taken at 23 sites. Odd-numbered samples were affected by prairie dogs and even-numbered samples were from the paired unaffected areas.

Cover

The point intercept method of cover assessment was chosen because it provides superior objectivity and repeatability; the inherent tendency to collect the most information on the more abundant species has been countered through use of a total vascular species inventory along the sample transect (see below). In addition, frequency plot data have been

collected in one late summer and one spring sampling to provide further details of the abundance of less common species.

Point intercept cover sampling was developed early in the history of plant ecology (Levy and Madden 1933), and translated into varying forms by subsequent researchers (Goodall 1952, Winkworth and Goodall 1962).

Cover data were tabulated as interceptions of a point with plant species, soil, standing dead plant material (produced in a previous year), litter (fallen dead plant material), or rock. Plant material produced during the sample year and still standing was tallied by species. The point was optically projected using a Cover-Point Optical Point Projector. The sample was taken at a randomly located and randomly oriented 50 m transect and consisted of a total of 100 projected points per transect. Permanent marking of the endpoints was accomplished as described above.

Sampling Date

Sampling of the prairie dog study areas reported here was conducted in June 1997.

Photographic Documentation

At each site, a photo oriented along the transect from the origin was taken. These photos are attached to this report.

RESULTS

Results reported here are from 1997 observations. Tabulated 1997 results for all sites are present in Table 1. In Table 2 the affected (prairie dog affected) sites are separated, while in Table 3, the unaffected sites are separated. Table 4 is a species presence table showing the species present at each sample site. Figure 1 illustrates relative vegetation cover by lifeform on the study transects as of 1997. Figure 2 similarly illustrates species density by lifeform. Figure 3 illustrates total vegetation cover along the sample transects.

Summarized results are as follows:

	-----Cover Percent-----					Species
	Totl. Veg.	StDd	Ltr	Soil	Rock	Density*
Prairie dog occupied	58.3	0.8	24.7	14.6	1.5	27.7
Prairie dog unoccupied	56.7	2.6	31.6	8.3	0.8	35.3
All sites combined	57.6	1.7	28.1	11.5	1.2	31.4

It should be noted that these summarized data should be interpreted only as a statistical "big picture." The relationship between occupied and unoccupied sites for most of these parameters reverses in different pairs. Full interpretation will require much more detailed examination of such information as relative vegetation cover and species density by lifeform, as well as patterns of individual species, at a later time.

Figure 1. Relative Vegetation Cover by Lifeform - Prairie Dog Study, Boulder City Open Space, CO - 1997 (Page 1 of 3)

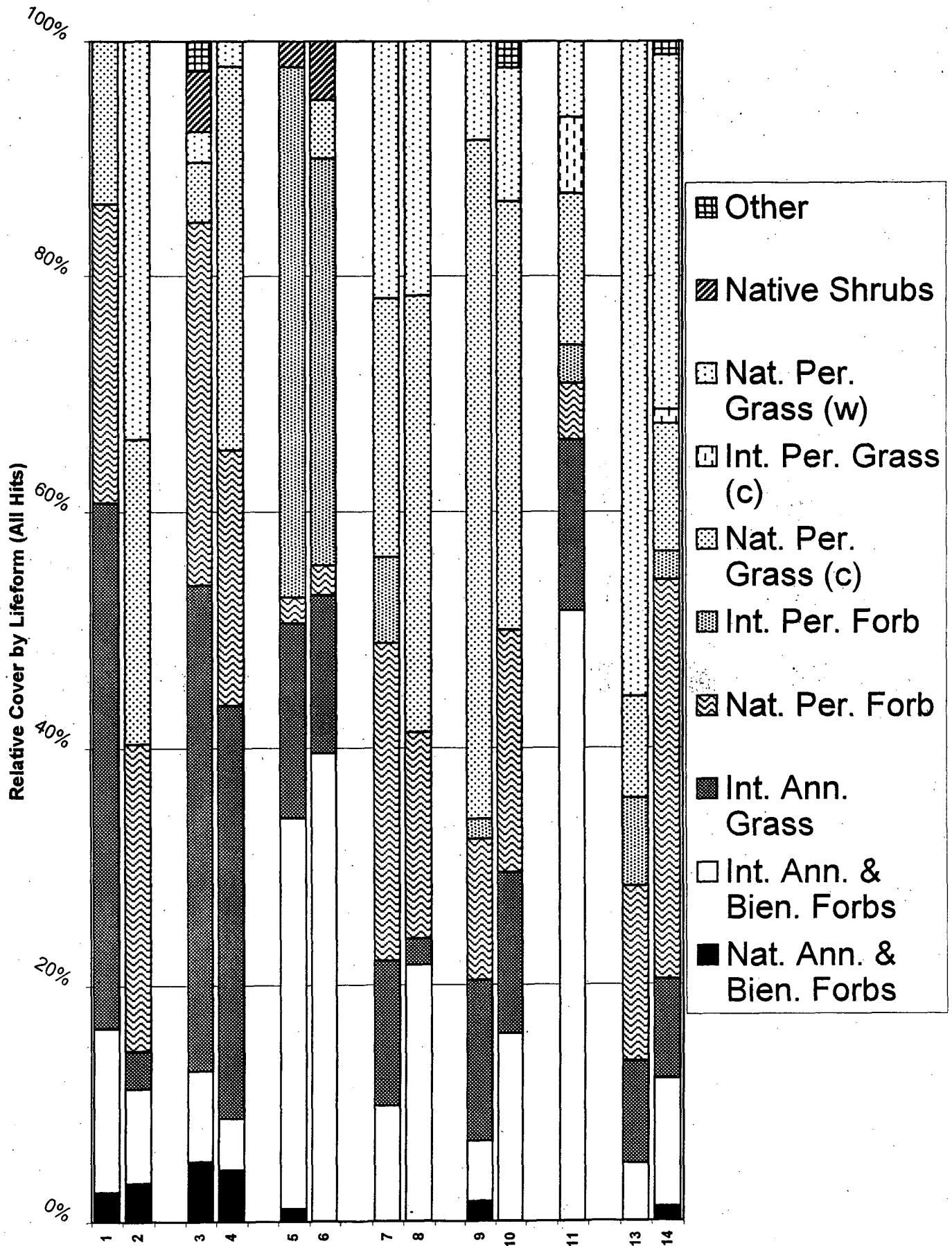
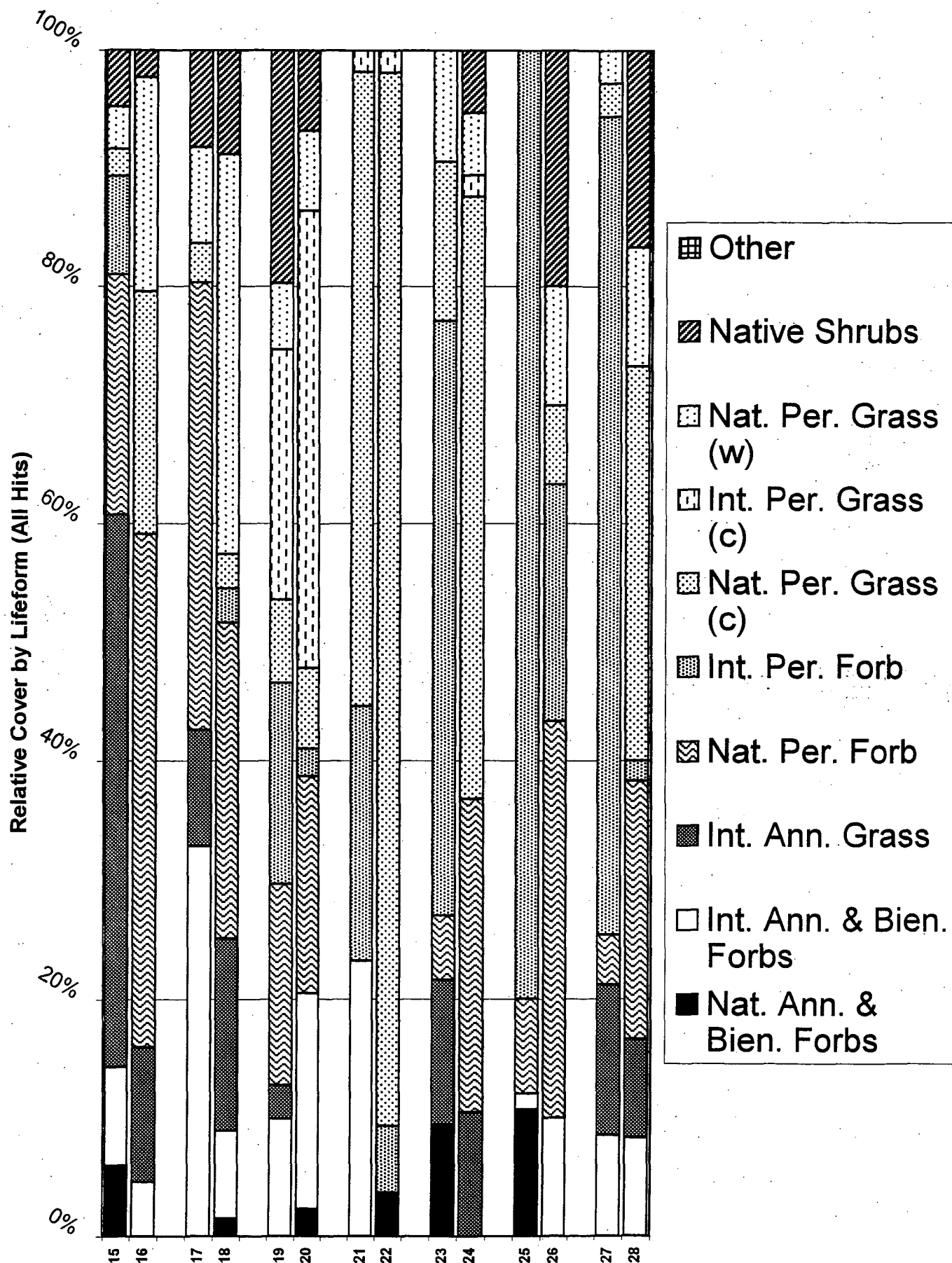


Figure 1. Relative Vegetation Cover by Lifeform - Prairie Dog Study, Boulder City Open Space, CO 1997



(Page 3 of 3)

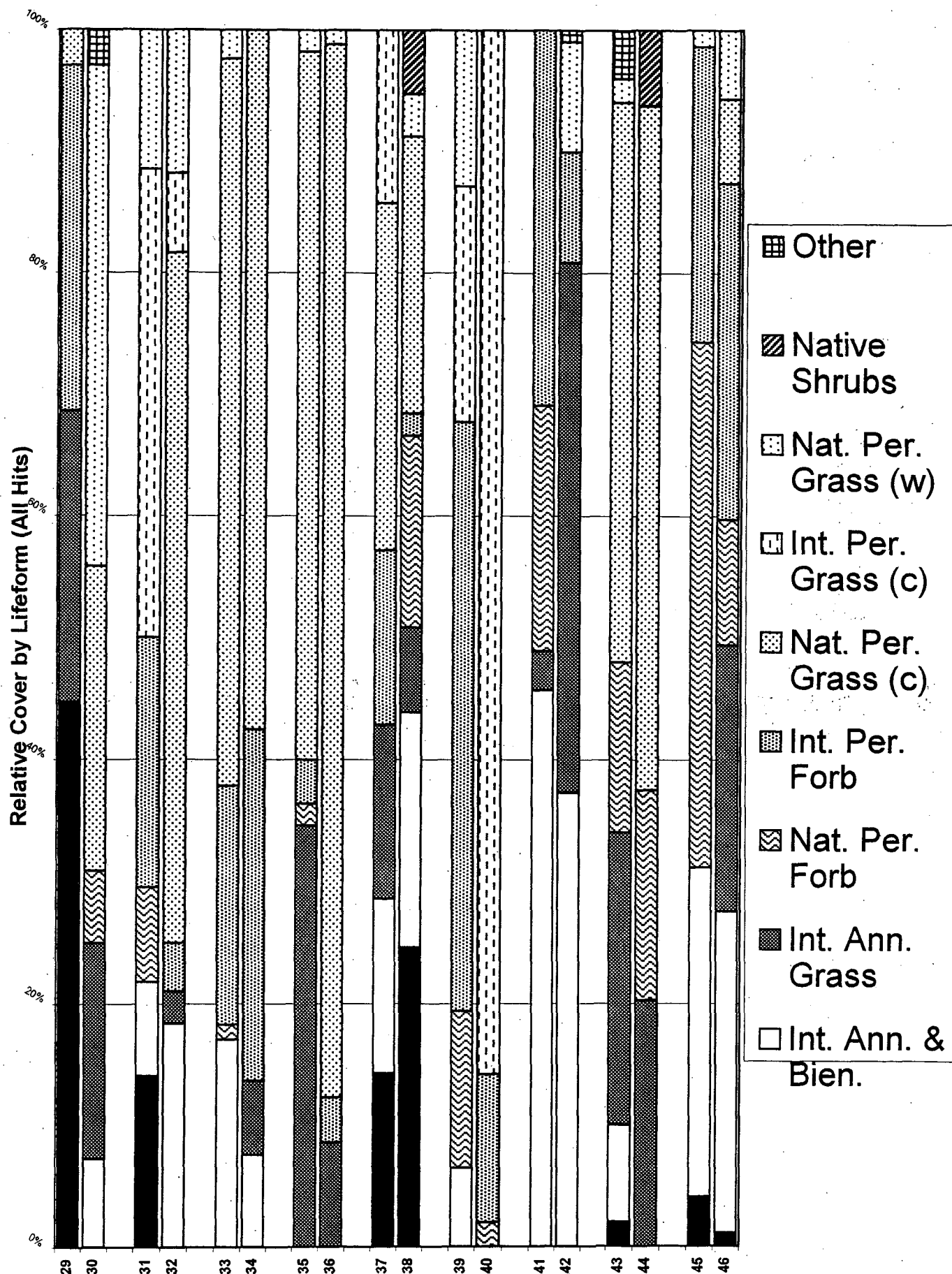
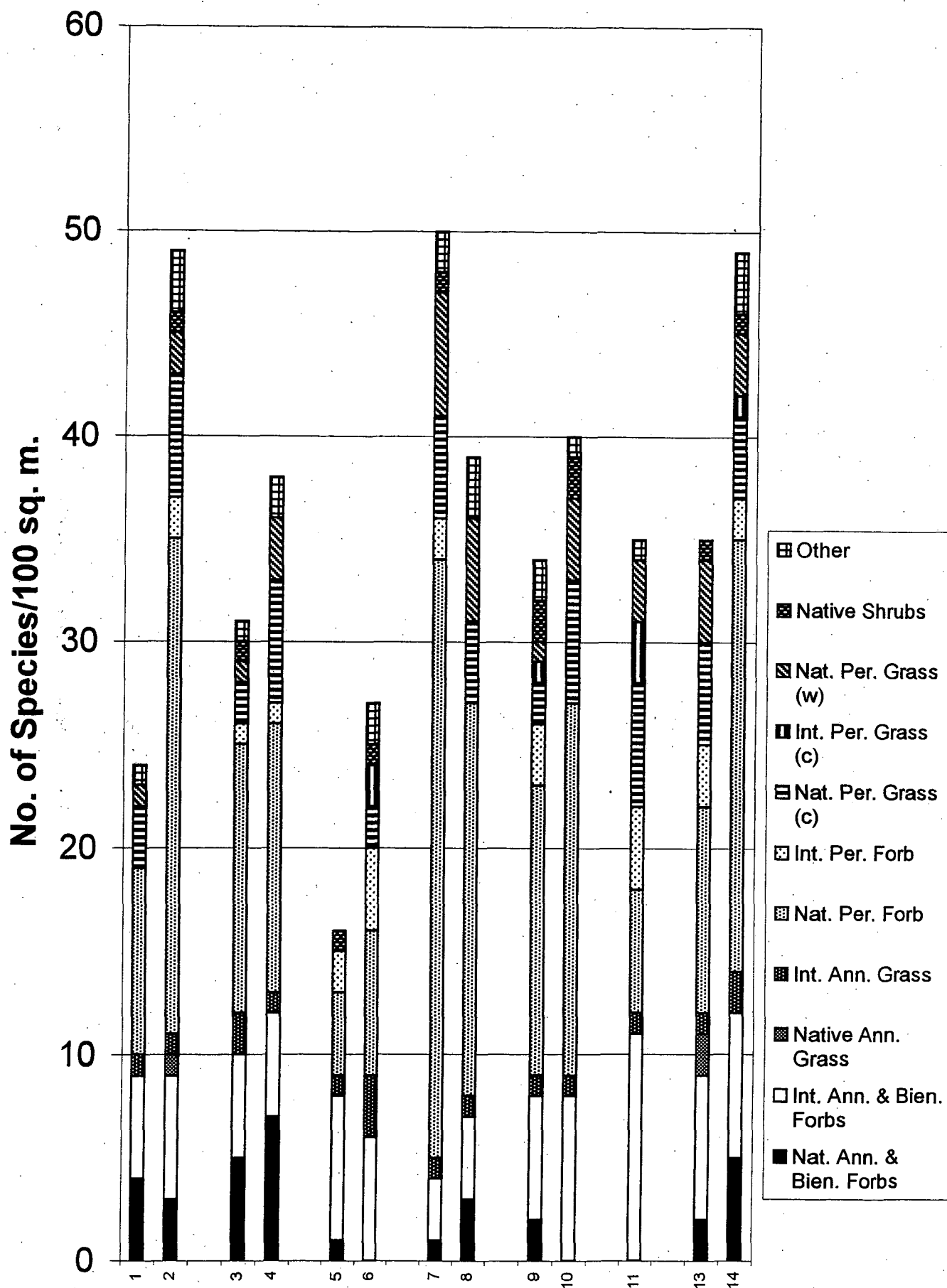
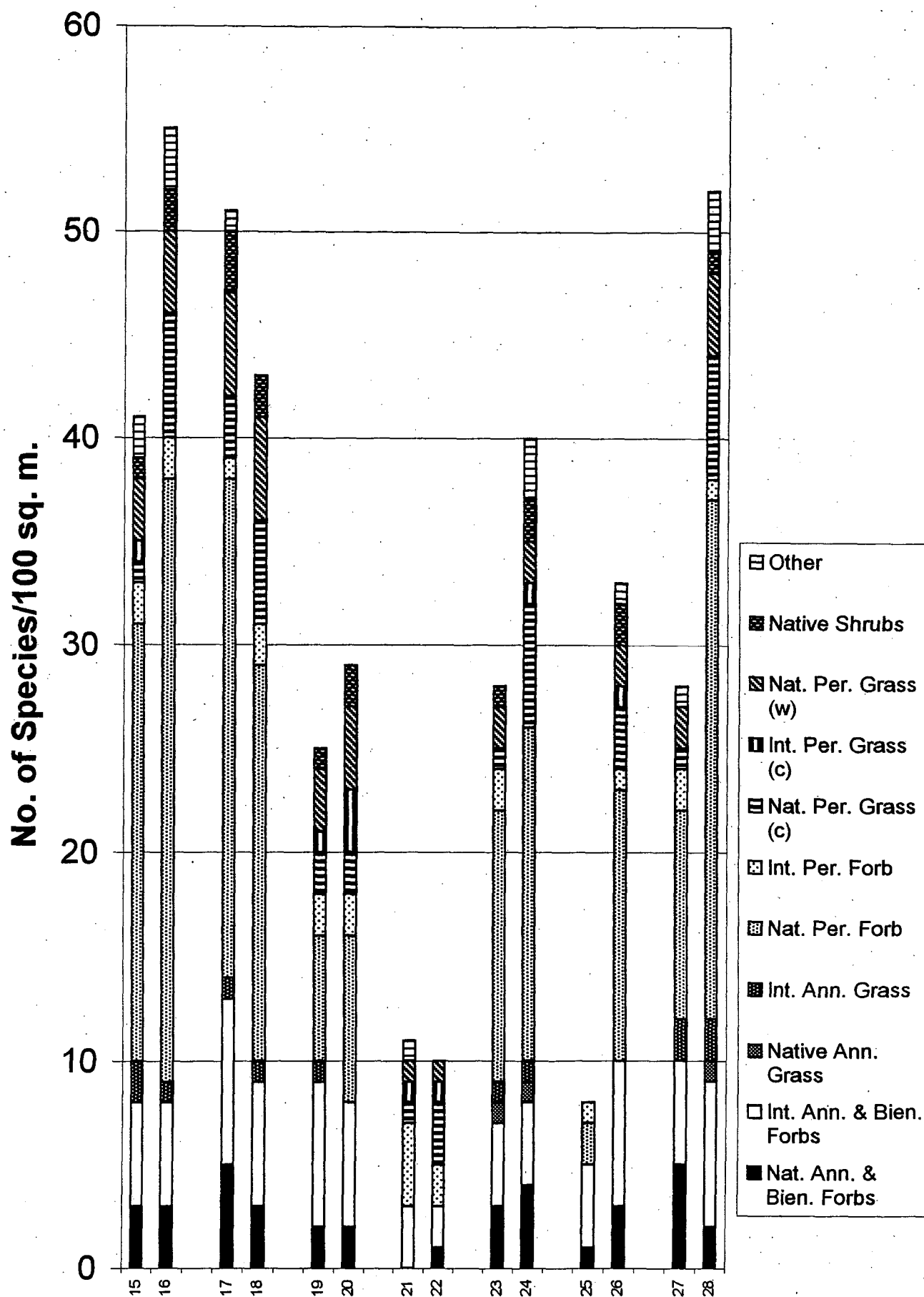


Figure 2. Species Density by Lifeform - Prairie Dog Study, Boulder City Open Space, CO - 1997



(Page 2 of 3)



(Page 3 of 3)

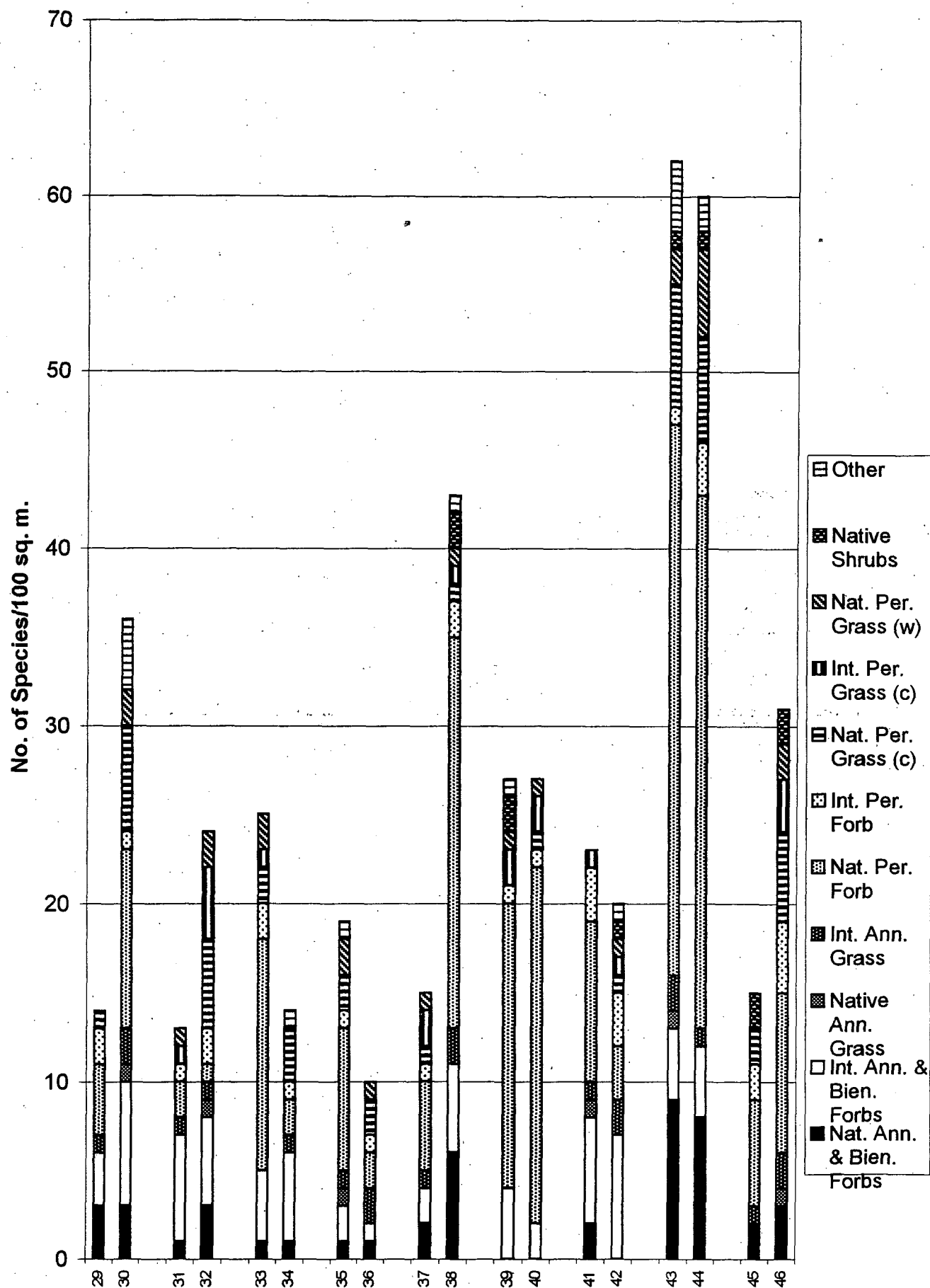


Figure 3. Total Vegetation Cover on Prairie Dog Occupied and Unoccupied Sites

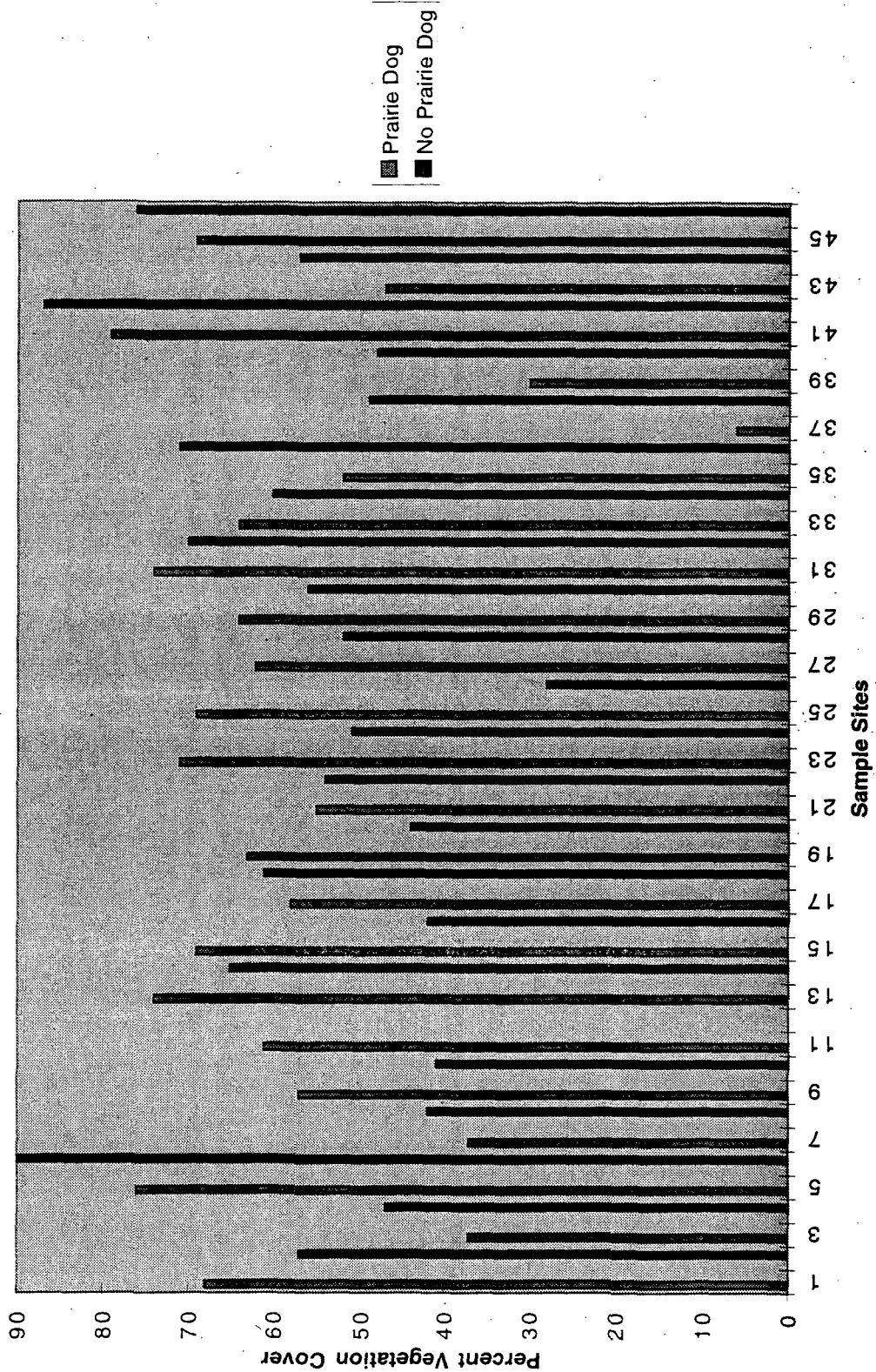


Table 1. Cover Data — All Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER—ALL (%)	RELATIVE VEGETATION COVER—ALL (%)
NATIVE ANNUAL & BIENNIAL FORBS					
<i>Androsace occidentalis</i>	0.00	2.22	0.00	0.00	0.00
<i>Androsace septentrionalis</i>	0.00	2.22	0.00	0.00	0.00
<i>Cirsium undulatum</i>	0.02	37.78	0.04	0.02	0.03
<i>Collinsia parviflora</i>	0.00	2.22	0.00	0.00	0.00
<i>Collomia linearis</i>	0.00	4.44	0.00	0.00	0.00
<i>Cryptantha minima</i>	0.00	2.22	0.00	0.00	0.00
<i>Descurainia incana</i>	0.00	2.22	0.00	0.00	0.00
<i>Descurainia pinnata</i>	0.00	11.11	0.00	0.00	0.00
<i>Draba reptans</i>	0.00	6.67	0.00	0.00	0.00
<i>Draba spp.</i>	0.02	2.22	0.04	0.02	0.03
<i>Dyssodia papposa</i>	0.02	4.44	0.04	0.02	0.03
<i>Erigeron divergens</i>	0.02	8.89	0.04	0.02	0.03
<i>Erysimum asperum</i>	0.00	13.33	0.00	0.00	0.00
<i>Frasera speciosa</i>	0.00	2.22	0.00	0.00	0.00
<i>Grindelia squarrosa</i>	0.04	35.56	0.08	0.04	0.07
<i>Hedeoma hispidum</i>	0.00	4.44	0.00	0.00	0.00
<i>Helianthus annuus</i>	0.00	2.22	0.00	0.00	0.00
<i>Helianthus petiolaris</i>	0.02	4.44	0.04	0.02	0.03
<i>Machaeranthera tanacetifolia</i>	0.11	2.22	0.19	0.18	0.28
<i>Oligosporus pacificus</i>	0.02	15.56	0.04	0.02	0.03
<i>Oreocarya virgata</i>	0.00	2.22	0.00	0.00	0.00
<i>Plantago patagonica</i>	1.18	48.89	2.05	1.36	2.10
<i>Pterogonum alatum</i>	0.04	11.11	0.08	0.04	0.07
<i>Salvia aethiopis</i>	0.24	6.67	0.42	0.29	0.45
<i>Silene antirrhina</i>	0.07	20.00	0.12	0.07	0.10
<i>Tithymalus spathulatus</i>	0.02	2.22	0.04	0.02	0.03
TOTAL NATIVE ANN. & BIEN. FORBS	1.8	84.4	3.2	2.1	3.3
INTRODUCED ANNUAL & BIENNIAL FORBS					
<i>Acosta diffusa</i>	1.73	37.78	3.01	2.02	3.13
<i>Alyssum minus</i>	2.07	71.11	3.59	2.36	3.65
<i>Camelina microcarpa</i>	0.00	20.00	0.00	0.00	0.00
<i>Cardaria draba</i>	0.27	4.44	0.46	0.27	0.41
<i>Carduus nutans ssp. macrolepis</i>	0.33	31.11	0.58	0.33	0.52
<i>Chamaesyce glyptosperma</i>	0.13	8.89	0.23	0.16	0.24
<i>Cirsium vulgare</i>	0.00	2.22	0.00	0.00	0.00
<i>Crepis capillaris</i>	0.00	2.22	0.00	0.00	0.00
<i>Cynoglossum officinale</i>	0.00	2.22	0.00	0.00	0.00
<i>Descurainia sophia</i>	0.00	4.44	0.00	0.00	0.00
<i>Dipsacus sylvestris</i>	0.00	2.22	0.00	0.00	0.00
<i>Erodium cicutarium</i>	0.56	46.67	0.97	0.64	1.00
<i>Lactuca serriola</i>	0.53	28.89	0.93	0.62	0.96
<i>Lappula redowskii</i>	0.00	8.89	0.00	0.02	0.03
<i>Lepidium densiflorum</i>	0.00	8.89	0.00	0.00	0.00
<i>Medicago lupulina</i>	0.64	20.00	1.12	0.80	1.24
<i>Melilotus officinalis</i>	0.04	20.00	0.08	0.04	0.07
<i>Neolepia campestre</i>	0.00	6.67	0.00	0.00	0.00
<i>Noccaea montana</i>	0.00	8.89	0.00	0.00	0.00
<i>Plantago lanceolata</i>	0.33	22.22	0.58	0.36	0.55
<i>Podospermum laciniatum</i>	0.07	28.89	0.12	0.07	0.10
<i>Polygonum ramosissimum</i>	0.00	4.44	0.00	0.00	0.00
<i>Sisymbrium altissimum</i>	0.02	33.33	0.04	0.02	0.03
<i>Solanum americanum</i>	0.00	2.22	0.00	0.00	0.00
<i>Tragopogon dubius ssp. major</i>	0.27	53.33	0.46	0.33	0.52
<i>Turritis glabra</i>	0.00	2.22	0.00	0.00	0.00
<i>Verbascum blattaria</i>	0.07	11.11	0.12	0.13	0.21
<i>Verbascum phlomoides</i>	0.00	2.22	0.00	0.00	0.00
<i>Verbascum thapsus</i>	1.22	24.44	2.12	1.44	2.24
TOTAL INTRO. ANN. & BIEN. FORBS	8.3	100.0	14.4	9.6	14.9
NATIVE ANNUAL GRASSES					
<i>Critesion pusillum</i>	0.00	4.44	0.00	0.00	0.00
<i>Vulpia octoflora</i>	0.11	22.22	0.19	0.13	0.21
TOTAL NATIVE ANN. GRASSES	0.1	24.4	0.2	0.1	0.2

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
INTRODUCED ANNUAL GRASSES					
<i>Anisantha tectorum</i>	6.20	71.11	10.77	6.80	10.53
<i>Bromus japonicus</i>	1.89	37.78	3.28	2.02	3.13
<i>Cylindropyrum cylindricum</i>	0.00	2.22	0.00	0.00	0.00
TOTAL INTRO. ANN. GRASSES	8.1	82.2	14.1	8.8	13.7
NATIVE PERENNIAL FORBS					
<i>Acetosella vulgaris</i>	0.02	4.44	0.04	0.02	0.03
<i>Achillea lanulosa</i>	0.07	13.33	0.12	0.09	0.14
<i>Adenolinum lewisii</i>	0.11	15.56	0.19	0.13	0.21
<i>Agoseris glauca</i>	0.02	2.22	0.04	0.02	0.03
<i>Allium textile</i>	0.00	11.11	0.00	0.00	0.00
<i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>	0.73	48.89	1.27	0.87	1.34
<i>Amerosedum lanceolatum</i>	0.00	2.22	0.00	0.00	0.00
<i>Antennaria corymbosa</i>	0.00	2.22	0.00	0.00	0.00
<i>Antennaria</i> spp.	0.00	4.44	0.00	0.00	0.00
<i>Aphyllon fasciculatum</i>	0.00	11.11	0.00	0.00	0.00
<i>Apocynum cannabinum</i>	0.02	2.22	0.04	0.02	0.03
<i>Argemone polyanthemus</i>	0.00	4.44	0.00	0.00	0.00
<i>Arnica fulgens</i>	0.04	8.89	0.08	0.04	0.07
<i>Artemisia frigida</i>	0.51	55.56	0.89	0.56	0.86
<i>Artemisia ludoviciana</i>	0.13	33.33	0.23	0.13	0.21
<i>Asclepias pumila</i>	0.00	4.44	0.00	0.00	0.00
<i>Asclepias speciosa</i>	0.00	2.22	0.00	0.00	0.00
<i>Asclepias viridiflora</i>	0.00	4.44	0.00	0.00	0.00
<i>Aster porteri</i>	0.07	8.89	0.12	0.07	0.10
<i>Astragalus agrestis</i>	0.02	17.78	0.04	0.07	0.10
<i>Astragalus bisulcatus</i>	0.00	4.44	0.00	0.00	0.00
<i>Astragalus crassicaupus</i>	0.00	13.33	0.00	0.00	0.00
<i>Astragalus drummondii</i>	0.00	6.67	0.00	0.00	0.00
<i>Astragalus flexuosus</i>	0.02	2.22	0.04	0.02	0.03
<i>Astragalus miser</i> var. <i>oblongifolius</i>	0.02	2.22	0.04	0.02	0.03
<i>Astragalus shortianus</i>	0.00	6.67	0.00	0.00	0.00
<i>Astragalus tridactylus</i>	0.00	8.89	0.00	0.00	0.00
<i>Calochortus gunnisonii</i>	0.00	4.44	0.00	0.00	0.00
<i>Calylophus serrulatus</i>	0.02	6.67	0.04	0.02	0.03
<i>Castilleja sessiliflora</i>	0.00	6.67	0.00	0.02	0.03
<i>Comandra umbellata</i> ssp. <i>pallida</i>	0.02	11.11	0.04	0.02	0.03
<i>Dalea candida</i> var. <i>oligophylla</i>	0.00	8.89	0.00	0.00	0.00
<i>Dalea purpurea</i>	0.00	13.33	0.00	0.00	0.00
<i>Delphinium ramosum</i>	0.00	2.22	0.00	0.00	0.00
<i>Drymocallis fissa</i>	0.02	11.11	0.04	0.02	0.03
<i>Eremogone fendleri</i>	0.00	4.44	0.00	0.00	0.00
<i>Erigeron canus</i>	0.00	4.44	0.00	0.00	0.00
<i>Erigeron flagellaris</i>	0.29	40.00	0.50	0.31	0.48
<i>Evolvulus nuttalianus</i>	0.00	6.67	0.00	0.00	0.00
<i>Gaillardia aristata</i>	0.00	6.67	0.00	0.00	0.00
<i>Gastrolychnis drummondii</i>	0.00	2.22	0.00	0.00	0.00
<i>Gaura coccinea</i>	0.04	53.33	0.08	0.04	0.07
<i>Glandularia bipinnatifida</i>	0.02	4.44	0.04	0.02	0.03
<i>Gutierrezia sarothrae</i>	0.89	60.00	1.54	0.96	1.48
<i>Hedysarum boreale</i>	0.00	2.22	0.00	0.00	0.00
<i>Helianthus pumilus</i>	0.13	11.11	0.23	0.18	0.28
<i>Heterotheca fulcrata</i>	0.02	15.56	0.04	0.02	0.03
<i>Heterotheca villosa</i>	0.49	40.00	0.85	0.56	0.86
<i>Heuchera hallii</i>	0.07	2.22	0.12	0.07	0.10
<i>Hybanthus verticillatus</i>	0.04	4.44	0.08	0.04	0.07
<i>Hymenopappus filifolius</i>	0.00	4.44	0.00	0.00	0.00
<i>Ipomopsis spicata</i>	0.00	2.22	0.00	0.00	0.00
<i>Iris missouriensis</i>	0.00	2.22	0.00	0.00	0.00
<i>Lesquerella montana</i>	0.00	17.78	0.00	0.00	0.00
<i>Leucocrinum montanum</i>	0.07	26.67	0.12	0.07	0.10
<i>Liatris punctata</i>	0.11	35.56	0.19	0.11	0.17
<i>Lithospermum ruderales</i>	0.00	11.11	0.00	0.00	0.00

Table 1. Cover Data — All Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
NATIVE PERENNIAL FORBS (concluded)					
Lomatium orientale	0.02	26.67	0.04	0.02	0.03
Lupinus caudatus	0.00	2.22	0.00	0.00	0.00
Lygodesmia juncea	0.00	8.89	0.00	0.00	0.00
Machaeranthera canescens	0.00	6.67	0.00	0.00	0.00
Machaeranthera pinnatifida	0.00	8.89	0.00	0.00	0.00
Mertensia lanceolata	0.00	13.33	0.00	0.00	0.00
Monarda pectinata	0.00	4.44	0.00	0.00	0.00
Musineon divaricatum	0.00	15.56	0.00	0.00	0.00
Nothocalais cuspidata	0.00	8.89	0.00	0.00	0.00
Oenothera caespitosa	0.00	2.22	0.00	0.00	0.00
Oenothera howardii	0.02	15.56	0.04	0.02	0.03
Oligosporus dracunculus ssp. glaucus	0.16	20.00	0.27	0.16	0.24
Onosmodium molle ssp. occidentale	0.00	4.44	0.00	0.00	0.00
Oxalis dillenii	0.04	6.67	0.08	0.04	0.07
Oxybaphus linearis	0.00	11.11	0.00	0.00	0.00
Oxybaphus nyctagineus	0.00	6.67	0.00	0.00	0.00
Oxytropis x sericea	0.09	20.00	0.15	0.09	0.14
Packera fendleri	0.00	2.22	0.00	0.00	0.00
Packera plattensis	0.11	2.22	0.19	0.13	0.21
Paronychia jamesii	0.00	2.22	0.00	0.00	0.00
Penstemon secundiflorus	0.00	11.11	0.00	0.00	0.00
Penstemon virens	0.00	2.22	0.00	0.00	0.00
Penstemon virgatus ssp. asa-grayi	0.00	4.44	0.00	0.00	0.00
Phacelia hastata	0.00	2.22	0.00	0.00	0.00
Phlox longifolia	0.00	2.22	0.00	0.00	0.00
Phyla cuneifolia	0.64	4.44	1.12	0.71	1.10
Physalis heterophylla	0.00	2.22	0.00	0.00	0.00
Picradeniopsis oppositifolia	0.00	2.22	0.00	0.02	0.03
Potentilla hippiana	0.00	2.22	0.00	0.00	0.00
Psoraleidium tenuiflorum	1.36	68.89	2.36	1.44	2.24
Ratibida columnifera	0.09	26.67	0.15	0.09	0.14
Rumex crispus	0.09	6.67	0.15	0.09	0.14
Scutellaria brittonii	0.00	2.22	0.00	0.00	0.00
Senecio integerrimus	0.00	6.67	0.00	0.00	0.00
Senecio spartioides	0.02	11.11	0.04	0.02	0.03
Solanum spp.	0.00	2.22	0.00	0.00	0.00
Solidago missouriensis	0.02	4.44	0.04	0.04	0.07
Solidago simplex var. nana	0.02	2.22	0.04	0.02	0.03
Solidago speciosus	0.02	2.22	0.04	0.02	0.03
Solidago spp.	0.04	2.22	0.08	0.07	0.10
Sphaeralcea coccinea	0.11	42.22	0.19	0.13	0.21
Thelesperma megapotamicum	0.02	13.33	0.04	0.02	0.03
Tithymalus brachyceras	0.02	11.11	0.04	0.02	0.03
Townsendia exscapa	0.00	4.44	0.00	0.00	0.00
Tradescantia occidentalis	0.00	2.22	0.00	0.00	0.00
Vicia americana	0.02	6.67	0.04	0.02	0.03
Viola nuttallii	0.00	35.56	0.00	0.02	0.03
Virgulus falcatus	0.84	60.00	1.47	0.98	1.51
TOTAL NATIVE PERENNIAL FORBS	7.8	95.6	13.6	8.7	13.5
INTRODUCED PERENNIAL FORBS					
Arabis hirsuta	0.00	2.22	0.00	0.00	0.00
Brexa arvensis	0.27	4.44	0.46	0.33	0.52
Cardaria chalapensis	0.11	6.67	0.19	0.11	0.17
Cichorium intybus	0.00	2.22	0.00	0.00	0.00
Convolvulus arvensis	8.16	75.56	14.17	9.44	14.63
Hypericum perforatum	0.00	11.11	0.00	0.00	0.00
Linaria genistifolia ssp. dalmatica	0.09	2.22	0.15	0.09	0.14
Lotus tenuis	0.02	2.22	0.04	0.02	0.03
Marrubium vulgare	0.04	2.22	0.08	0.04	0.07
Medicago sativa	0.00	4.44	0.00	0.00	0.00
Taraxacum officinale	0.18	44.44	0.31	0.27	0.41
Trifolium hybridum	0.00	2.22	0.00	0.00	0.00
Trifolium pratense	0.00	2.22	0.00	0.00	0.00
Verbena bracteata	0.09	15.56	0.15	0.09	0.14
TOTAL INTRO. PERENNIAL FORBS	9.0	91.1	15.6	10.4	16.1

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
NATIVE PERENNIAL GRASSES (cool)					
<i>Agrostis</i> spp.	0.02	2.22	0.04	0.02	0.03
<i>Carex foenea</i>	0.02	2.22	0.04	0.02	0.03
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>	0.89	33.33	1.54	1.11	1.72
<i>Carex praegracilis</i>	0.00	2.22	0.00	0.00	0.00
<i>Carex</i> spp.	0.31	2.22	0.54	0.31	0.48
<i>Critesion brachyantherum</i>	0.00	2.22	0.00	0.00	0.00
<i>Critesion jubatum</i>	0.11	15.56	0.19	0.11	0.17
<i>Dicanthelium oligosanthes</i> var. <i>scribnerianum</i>	0.02	2.22	0.04	0.02	0.03
<i>Elymus elymoides</i>	0.00	2.22	0.00	0.00	0.00
<i>Elymus lanceolatus</i> fm. <i>albicans</i>	0.00	2.22	0.00	0.00	0.00
<i>Elymus longifolius</i>	0.07	6.67	0.12	0.07	0.10
<i>Hesperostipa comata</i>	1.13	28.89	1.97	1.27	1.96
<i>Juncus arcticus</i> ssp. <i>ater</i>	0.00	2.22	0.00	0.00	0.00
<i>Koeleria macrantha</i>	0.33	31.11	0.58	0.33	0.52
<i>Nassella viridula</i>	0.02	13.33	0.04	0.02	0.03
<i>Pascopyrum smithii</i>	6.51	75.56	11.31	7.07	10.95
<i>Pascopyrum smithii</i> var. <i>smithii</i>	0.02	4.44	0.04	0.02	0.03
<i>Poa agassizensis</i>	3.22	40.00	5.60	3.44	5.34
<i>Poa compressa</i>	0.47	26.67	0.81	0.51	0.79
<i>Poa secunda</i>	0.00	6.67	0.00	0.00	0.00
TOTAL NATIVE PERENNIAL GRASSES (c)	13.2	88.9	22.9	14.3	22.2
INTRODUCED PERENNIAL GRASSES (cool)					
<i>Agropyron cristatum</i>	0.91	8.89	1.58	0.93	1.45
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>	0.02	2.22	0.04	0.02	0.03
<i>Agrostis gigantea</i>	0.00	2.22	0.00	0.00	0.00
<i>Bromopsis inermis</i>	0.80	24.44	1.39	0.82	1.27
<i>Dactylis glomerata</i>	0.11	13.33	0.19	0.11	0.17
<i>Elytrigia repens</i>	0.00	2.22	0.00	0.00	0.00
<i>Festuca pratensis</i>	0.00	2.22	0.00	0.00	0.00
<i>Juncus effusus</i>	0.11	2.22	0.19	0.11	0.17
<i>Phleum pratense</i>	0.02	2.22	0.04	0.02	0.03
<i>Schedonnardus paniculatus</i>	0.67	13.33	1.16	0.71	1.10
<i>Thinopyrum intermedium</i>	0.02	2.22	0.04	0.02	0.03
TOTAL INTRO. PERENNIAL GRASSES (c)	2.7	46.7	4.6	2.8	4.3
NATIVE PERENNIAL GRASSES (warm)					
<i>Andropogon gerardii</i>	1.76	28.89	3.05	1.96	3.03
<i>Aristida purpurea</i>	0.38	42.22	0.66	0.38	0.59
<i>Bouteloua curtipendula</i>	0.22	22.22	0.39	0.24	0.38
<i>Buchloe dactyloides</i>	0.73	33.33	1.27	0.78	1.20
<i>Calamovilfa longifolia</i>	0.00	4.44	0.00	0.00	0.00
<i>Chondrosum gracile</i>	1.60	40.00	2.78	2.11	3.27
<i>Chondrosum hirsutum</i>	0.02	8.89	0.04	0.02	0.03
<i>Distichlis spicata</i> ssp. <i>stricta</i>	0.00	4.44	0.00	0.00	0.00
<i>Panicum virgatum</i>	0.00	2.22	0.00	0.00	0.00
<i>Schizachyrium scoparium</i>	0.07	11.11	0.12	0.09	0.14
<i>Sporobolus cryptandrus</i>	0.22	11.11	0.39	0.27	0.41
<i>Sporobolus heterolepis</i>	0.00	2.22	0.00	0.00	0.00
TOTAL NATIVE PERENNIAL GRASSES (w)	5.0	84.4	8.7	5.8	9.1
NATIVE SHRUBS					
<i>Amorpha nana</i>	0.00	4.44	0.00	0.00	0.00
<i>Chrysothamnus nauseosus</i>	0.20	13.33	0.35	0.20	0.31
<i>Crataegus rivularis</i>	0.00	2.22	0.00	0.00	0.00
<i>Eriogonum effusum</i>	0.04	4.44	0.08	0.04	0.07
<i>Rosa sayi</i>	0.87	31.11	1.51	0.96	1.48
<i>Symphoricarpos rotundifolius</i>	0.00	2.22	0.00	0.00	0.00
<i>Yucca glauca</i>	0.38	28.89	0.66	0.40	0.62
TOTAL NATIVE SHRUBS	1.5	57.8	2.6	1.6	2.5

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
INTRODUCED TREES					
<i>Ulmus pumila</i>	0.02	2.22	0.04	0.02	0.03
TOTAL INTRODUCED TREES	0.0	2.2	0.0	0.0	0.0
FERNS					
<i>Hippochaete hyemalis</i> ssp. <i>affinis</i>	0.00	2.22	0.00	0.00	0.00
<i>Hippochaete laevigata</i>	0.00	2.22	0.00	0.00	0.00
TOTAL FERNS	0.0	4.4	0.0	0.0	0.0
BRYOPHYTES					
Moss	0.02	2.22	0.04	0.02	0.03
TOTAL BRYOPHYTES	0.0	2.2	0.0	0.0	0.0
LICHEN					
Lichen	0.04	2.22	0.08	0.04	0.07
<i>Parmelia chlorocroa</i>	0.02	2.22	0.04	0.04	0.07
TOTAL LICHEN	0.1	4.4	0.1	0.1	0.1
SUCCULENT					
<i>Coryphantha vivipara</i> var. <i>vivipara</i>	0.00	6.67	0.00	0.00	0.00
<i>Echinocereus viridiflorus</i>	0.02	13.33	0.04	0.02	0.03
<i>Opuntia fragilis</i>	0.00	20.00	0.00	0.00	0.00
<i>Opuntia macrorhiza</i>	0.00	40.00	0.00	0.02	0.03
<i>Opuntia polyacantha</i>	0.00	2.22	0.00	0.00	0.00
TOTAL SUCCULENT	0.0	42.2	0.0	0.0	0.1
MUSHROOMS					
Fungus	0.00	17.78	0.00	0.00	0.00
TOTAL MUSHROOMS	0.0	17.8	0.0	0.0	0.0
Standing dead	1.71	60.00		1.80	
Litter	28.07	100.00		28.07	
Bare soil	11.51	93.33		11.51	
Rock	1.16	46.67		1.16	
TOTALS	100.0			107.1	
TOTAL VEGETATION COVER	57.6 (s=16.1)		100.0	64.6 (s=21.0)	100.0
GROUND COVER (Litter+Rock+Veg+St.Dead)	88.5			95.6	
SPECIES DENSITY (# of species/100 sq.m.) (AVERAGE= 31.4 Std.Dev.= 14.2)					

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Table 1. Cover Data — All Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	1	2	3	4	5	6	7	8	9	10
NATIVE PERENNIAL FORBS (concluded)										
<i>Lomatium orientale</i>	P			P			P	P	P	
<i>Lupinus caudatus</i>										
<i>Lygodesmia juncea</i>										
<i>Machaeranthera canescens</i>										
<i>Machaeranthera pinnatifida</i>										
<i>Mertensia lanceolata</i>										
<i>Monarda pectinata</i>										
<i>Musineon divaricatum</i>		P					P	P		
<i>Nothocalais cuspidata</i>		P					P			
<i>Oenothera caespitosa</i>										
<i>Oenothera howardii</i>										
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>		P								
<i>Onosmodium molle</i> ssp. <i>occidentale</i>									P	P
<i>Oxalis dillenii</i>									1	
<i>Oxybaphus linearis</i>								P		
<i>Oxybaphus nyctagineus</i>					P	P				
<i>Oxytropis x sericea</i>							P	P		P
<i>Packera fendleri</i>			P							
<i>Packera plattensis</i>										
<i>Paronychia jamesii</i>							P			
<i>Penstemon secundiflorus</i>							P			
<i>Penstemon virens</i>			P							
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>										
<i>Phacelia hastata</i>										
<i>Phlox longifolia</i>										
<i>Phyla cuneifolia</i>										
<i>Physalis heterophylla</i>										
<i>Picradeniopsis oppositifolia</i>										
<i>Potentilla hippiana</i>							P			
<i>Psoraleidium tenuiflorum</i>		4(2)	P	P			P	3	2	1
<i>Ratibida columnifera</i>		1		1			P	P		P
<i>Rumex crispus</i>						P				
<i>Scutellaria brittonii</i>										
<i>Senecio integerrimus</i>		P								
<i>Senecio spartioides</i>							P			
<i>Solanum</i> spp.										
<i>Solidago missouriensis</i>										
<i>Solidago simplex</i> var. <i>nana</i>										
<i>Solidago speciosus</i>										
<i>Solidago</i> spp.						2(1)				
<i>Sphaeralcea coccinea</i>	P	P	P	P			P			
<i>Thelesperma megapotamicum</i>										
<i>Tithymalus brachyceras</i>							P			
<i>Townsendia exscapa</i>							P	P		
<i>Tradescantia occidentalis</i>				P						
<i>Vicia americana</i>	1	P								
<i>Viola nuttallii</i>				P			P	P	P	P
<i>Virgulus falcatus</i>	4(5)	4	6	2		P		P	1	1
TOTAL NATIVE PERENNIAL FORBS	13(7)	14(2)	12	10	2	2(1)	9(2)	8	7	9
INTRODUCED PERENNIAL FORBS										
<i>Arabis hirsuta</i>		P								
<i>Breia arvensis</i>										
<i>Cardaria chalapensis</i>						4				
<i>Cichorium intybus</i>										
<i>Convolvulus arvensis</i>					33(8)	22(15)	2(1)			
<i>Hypericum perforatum</i>			P						P	
<i>Linaria genistifolia</i> ssp. <i>dalmatica</i>										
<i>Lotus tenuis</i>										
<i>Marrubium vulgare</i>										
<i>Medicago sativa</i>					P	P				
<i>Taraxacum officinale</i>		P		P		P	P		1	
<i>Trifolium hybridum</i>										
<i>Trifolium pratense</i>										
<i>Verbena bracteata</i>									P	
TOTAL INTRO. PERENNIAL FORBS	---	P	P	P	33(8)	26(15)	2(1)	---	1	---

Table 1. Cover Data - All Sites, Boulder City Open Space Prairie Dog Study, CO - June 1997

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	1	2	3	4	5	6	7	8	9	10
NATIVE PERENNIAL GRASSES (cool)										
<i>Agrostis</i> spp.										
<i>Carex foenea</i>										
<i>Carex pennsylvanica</i> ssp. <i>heliophila</i>		4(1)		1			3	(3)		1
<i>Carex praegracilis</i>										
<i>Carex</i> spp.										
<i>Critesion brachyantherum</i>										
<i>Critesion jubatum</i>							P			P
<i>Dicanthelium oligosanthes</i> var. <i>scribnerianum</i>										
<i>Elymus elymoides</i>										
<i>Elymus lanceolatus</i> fm. <i>albicans</i>										
<i>Elymus longifolius</i>										
<i>Hesperostipa comata</i>							4	10		P
<i>Juncus arcticus</i> ssp. <i>ater</i>										
<i>Koeleria macrantha</i>	P	4		P			2	4		
<i>Nassella viridula</i>		P		P						
<i>Pascopyrum smithii</i>	9(1)	5(1)	2	9(1)		P	P	P	6(1)	5
<i>Pascopyrum smithii</i> var. <i>smithii</i>										
<i>Poa agassizensis</i>	1			3		6			26(1)	9(1)
<i>Poa compressa</i>		1		1						P
<i>Poa secunda</i>		P	P							
TOTAL NATIVE PERENNIAL GRASSES (c)	10(1)	14(2)	2	14(1)	---	6	9	14(3)	32(2)	15(1)
INTRODUCED PERENNIAL GRASSES (cool)										
<i>Agropyron cristatum</i>										
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>										
<i>Agrostis gigantea</i>										
<i>Bromopsis inermis</i>						P				
<i>Dactylis glomerata</i>									P	
<i>Elytrigia repens</i>						P				
<i>Festuca pratensis</i>										
<i>Juncus effusus</i>										
<i>Phleum pratense</i>										
<i>Schedonnardus paniculatus</i>										
<i>Thinopyrum intermedium</i>										
TOTAL INTRO. PERENNIAL GRASSES (c)	---	---	---	---	---	P	---	---	P	---
NATIVE PERENNIAL GRASSES (warm)										
<i>Andropogon gerardii</i>				1			2(1)	1	5	2(1)
<i>Aristida purpurea</i>							P	P		P
<i>Bouteloua curtipendula</i>							1	3		1
<i>Buchloe dactyloides</i>							2	3		
<i>Calamovilfa longifolia</i>				P						
<i>Chondrosium gracile</i>	P	19(2)	1	P			2	3		
<i>Chondrosium hirsutum</i>										
<i>Distichlis spicata</i> ssp. <i>stricta</i>										
<i>Panicum virgatum</i>										
<i>Schizachyrium scoparium</i>							1			1
<i>Sporobolus cryptandrus</i>										
<i>Sporobolus heterolepis</i>		P								
TOTAL NATIVE PERENNIAL GRASSES (w)	P	19(2)	1	1	---	---	8(1)	10	5	4(1)
NATIVE SHRUBS										
<i>Amorpha nana</i>									P	P
<i>Chrysothamnus nauseosus</i>			2							
<i>Crataegus rivularis</i>										
<i>Eriogonum effusum</i>										
<i>Rosa sayi</i>		P			2	4(2)				P
<i>Symphoricarpos rotundifolius</i>									P	
<i>Yucca glauca</i>							P			
TOTAL NATIVE SHRUBS	---	P	2	---	2	4(2)	P	---	P	P

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	1	2	3	4	5	6	7	8	9	10
INTRODUCED TREES										
Ulmus pumila										
TOTAL INTRODUCED TREES	---	---	---	---	---	---	---	---	---	---
FERNS										
Hippochaete hyemalis ssp. affinis										
Hippochaete laevigata						P				
TOTAL FERNS	---	---	---	---	---	P	---	---	---	---
BRYOPHYTES										
Moss			1							
TOTAL BRYOPHYTES	---	---	1	---	---	---	---	---	---	---
LICHEN										
Lichen										
Parmelia chlorocroa										
TOTAL LICHEN	---	---	---	---	---	---	---	---	---	---
SUCCULENT										
Coryphantha vivipara var. vivipara		P								
Echinocereus viridiflorus							P	P		
Opuntia fragilis		P						P		
Opuntia macrorhiza		P		P		P	P	P	P	(1)
Opuntia polyacantha										
TOTAL SUCCULENT	---	P	---	P	---	P	P	P	P	(1)
MUSHROOMS										
Fungus	P			P					P	
TOTAL MUSHROOMS	P	---	---	P	---	---	---	---	P	---
Standing dead	1	6(1)	3	1	1		3	6(1)		1
Litter	26	25	32	47	19	10	50	50	41	52
Bare soil	5	12	23	5	4		10	2	2	4
Rock			5							2
TOTALS	100	100	100	100	100	100	100	100	100	100
TOTAL VEGETATION COVER	68(11)	57(6)	37(2)	47(1)	76(15)	90(29)	37(4)	42(4)	57(2)	41(3)
GROUND COVER (Litter+Rock+Veg+St.Dead)	95(11)	88(7)	77(2)	95(1)	96(15)	100(29)	90(4)	98(5)	98(2)	96(3)
SPECIES DENSITY (# of species/100 sq.m.) (AVERAGE= 31.4 Std.Dev.= 14.2)	24	49	31	38	16	27	50	39	34	40

*P=Present within 1 m. on either side of the cover transect, but not quantitatively encountered.

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	11	13	14	15	16	17	18	19	20
NATIVE ANNUAL & BIENNIAL FORBS									
<i>Androsace occidentalis</i>									
<i>Androsace septentrionalis</i>									
<i>Cirsium undulatum</i>			P		P	P	P	P	1
<i>Collinsia parviflora</i>									
<i>Collomia linearis</i>									
<i>Cryptantha minima</i>									
<i>Descurainia incana</i>									
<i>Descurainia pinnata</i>						P			
<i>Draba reptans</i>									
<i>Draba spp.</i>									
<i>Dyssodia papposa</i>									
<i>Erigeron divergens</i>									
<i>Erysimum asperum</i>									
<i>Frasera speciosa</i>									
<i>Grindelia squarrosa</i>			P	P					P
<i>Hedeoma hispidum</i>									
<i>Helianthus annuus</i>								P	
<i>Helianthus petiolaris</i>						P	1		
<i>Machaeranthera tanacetifolia</i>									
<i>Oligosporus pacificus</i>			P		P	P			
<i>Oreocarya virgata</i>									
<i>Plantago patagonica</i>		P	P	2(3)		P	P		
<i>Pterogonum alatum</i>					P				
<i>Salvia aethiopis</i>									
<i>Silene antirrhina</i>		P	1	P					
<i>Tithymalus spathulatus</i>									
TOTAL NATIVE ANN. & BIEN. FORBS	---	P	1	2(3)	P	P	1	P	1
INTRODUCED ANNUAL & BIENNIAL FORBS									
<i>Acosta diffusa</i>								P	4
<i>Alyssum minus</i>	1	1	9	6(1)	P	7	3(2)	P	P
<i>Camelina microcarpa</i>					P		P		
<i>Cardaria draba</i>									
<i>Carduus nutans ssp. macrolepis</i>	1			P		11			
<i>Chamaesyce glyptosperma</i>								5(1)	
<i>Cirsium vulgare</i>	P								
<i>Crepis capillaris</i>									
<i>Cynoglossum officinale</i>									
<i>Descurainia sophia</i>	P								
<i>Dipsacus sylvestris</i>									
<i>Erodium cicutarium</i>	3	P	P			P	P		
<i>Lactuca serriola</i>		P	P	P	P	P			
<i>Lappula redowskii</i>									
<i>Lepidium densiflorum</i>			P						
<i>Medicago lupulina</i>	21							P	3
<i>Melilotus officinalis</i>				P				P	
<i>Neolepia campestre</i>									
<i>Noccaea montana</i>	P								P
<i>Plantago lanceolata</i>	6	1	P						
<i>Podospermum laciniatum</i>					P	1	P	P	P
<i>Polygonum ramosissimum</i>	P								
<i>Sisymbrium altissimum</i>		1	P			P	P		
<i>Solanum americanum</i>	P								
<i>Tragopogon dubius ssp. major</i>		P	P	P	2	1	P		1
<i>Turritis glabra</i>									
<i>Verbascum blattaria</i>						P			
<i>Verbascum phlomoides</i>									
<i>Verbascum thapsus</i>	P	1						1	
TOTAL INTRO. ANN. & BIEN. FORBS	32	4	9	6(1)	2	20	3(2)	6(1)	8
NATIVE ANNUAL GRASSES									
<i>Critesion pusillum</i>		P							
<i>Vulpia octoflora</i>		P							
TOTAL NATIVE ANN. GRASSES	---	P	---	---	---	---	---	---	---

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	11	13	14	15	16	17	18	19	20
INTRODUCED ANNUAL GRASSES									
<i>Anisantha tectorum</i>	8(1)	7	5	16(2)		5(1)	10(1)	2	
<i>Bromus japonicus</i>			2	16(5)	5				
<i>Cylindropyrum cylindricum</i>									
TOTAL INTRO. ANN. GRASSES	8(1)	7	7	32(7)	5	5(1)	10(1)	2	---
NATIVE PERENNIAL FORBS									
<i>Acetosella vulgaris</i>	1								
<i>Achillea lanulosa</i>									
<i>Adenolinum lewisii</i>		P				3	(1)	P	
<i>Agoseris glauca</i>									
<i>Allium textile</i>									
<i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>	P	P	8(2)	1(1)	2	2	2	P	P
<i>Amerosedum lanceolatum</i>									
<i>Antennaria corymbosa</i>									
<i>Antennaria</i> spp.									
<i>Aphyllon fasciculatum</i>		P	P				P		
<i>Apocynum cannabinum</i>									
<i>Argemone polyanthemos</i>									
<i>Arnica fulgens</i>									
<i>Artemisia frigida</i>		5(1)	P	P	P		1		
<i>Artemisia ludoviciana</i>				P	1	P	P		
<i>Asclepias pumila</i>									
<i>Asclepias speciosa</i>									
<i>Asclepias viridiflora</i>			P				P		
<i>Aster porteri</i>					P	P			
<i>Astragalus agrestis</i>					P	P			
<i>Astragalus bisulcatus</i>									
<i>Astragalus crassicaupus</i>					P		P		
<i>Astragalus drummondii</i>									
<i>Astragalus flexuosus</i>									
<i>Astragalus miser</i> var. <i>oblongifolius</i>									
<i>Astragalus shortianus</i>									P
<i>Astragalus tridactylus</i>						P			
<i>Calochortus gunnisonii</i>									
<i>Calylophus serrulatus</i>					P	P	1		
<i>Castilleja sessiliflora</i>			(1)	P					
<i>Comandra umbellata</i> ssp. <i>pallida</i>						1			
<i>Dalea candida</i> var. <i>oligophylla</i>									
<i>Dalea purpurea</i>					P				
<i>Delphinium ramosum</i>					P				
<i>Drymocallis fissa</i>									
<i>Eremogone fendleri</i>									
<i>Erigeron canus</i>									
<i>Erigeron flagellaris</i>	P		P	P	2(1)	1	P		
<i>Evolvulus nuttalianus</i>									
<i>Gaillardia aristata</i>			P						
<i>Gastrolychnis drummondii</i>									
<i>Gaura coccinea</i>			P	P	P	P	P		P
<i>Glandularia bipinnatifida</i>									
<i>Gutierrezia sarothrae</i>		1	1	1	3(1)	3(1)	8	3	6
<i>Hedysarum boreale</i>									
<i>Helianthus pumilus</i>			2	1					
<i>Heterotheca fulcrata</i>			P		P	P	1		
<i>Heterotheca villosa</i>			P	4	3	2	P		P
<i>Heuchera hallii</i>									
<i>Hybanthus verticillatus</i>									
<i>Hymenopappus filifolius</i>									
<i>Ipomopsis spicata</i>									
<i>Iris missouriensis</i>									
<i>Lesquerella montana</i>					P				
<i>Leucocrinum montanum</i>			P	P	P				
<i>Liatris punctata</i>		1	P	P	P	P			
<i>Lithospermum ruderales</i>				P					

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PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	11	13	14	15	16	17	18	19	20
NATIVE PERENNIAL FORBS (concluded)									
<i>Lomatium orientale</i>									
<i>Lupinus caudatus</i>									
<i>Lygodesmia juncea</i>				P					
<i>Machaeranthera canescens</i>						P			
<i>Machaeranthera pinnatifida</i>									
<i>Mertensia lanceolata</i>					P				
<i>Monarda pectinata</i>		P				P			
<i>Musineon divaricatum</i>					P				
<i>Nothocalais cuspidata</i>					P				
<i>Oenothera caespitosa</i>									
<i>Oenothera howardii</i>				P	P	P			P
<i>Oligosporus dracunculus ssp. glaucus</i>							P		
<i>Onosmodium molle ssp. occidentale</i>									
<i>Oxalis dillenii</i>	1								
<i>Oxybaphus linearis</i>		P				P	P		
<i>Oxybaphus nyctagineus</i>									
<i>Oxytropis x sericea</i>					P				
<i>Packera fendleri</i>									
<i>Packera plattensis</i>									
<i>Paronychia jamesii</i>									
<i>Penstemon secundiflorus</i>		P	P						
<i>Penstemon virens</i>									
<i>Penstemon virgatus ssp. asa-grayi</i>									
<i>Phacelia hastata</i>									
<i>Phlox longifolia</i>									
<i>Phyla cuneifolia</i>	1								
<i>Physalis heterophylla</i>									
<i>Picradeniopsis oppositifolia</i>									
<i>Potentilla hippiana</i>									
<i>Psoraleidium tenuiflorum</i>		4	12(1)	2	2	6	3	6(1)	2
<i>Ratibida columnifera</i>			P	P	2				
<i>Rumex crispus</i>									
<i>Scutellaria brittonii</i>									
<i>Senecio integririmus</i>						P			
<i>Senecio spartioides</i>			P			1	P		
<i>Solanum spp.</i>								1(1)	
<i>Solidago missouriensis</i>									
<i>Solidago simplex var. nana</i>									
<i>Solidago speciosus</i>									
<i>Solidago spp.</i>									
<i>Sphaeralcea coccinea</i>				(1)	P	1			
<i>Thelesperma megapotamicum</i>			1	P	P				
<i>Tithymalus brachyceras</i>				P		1			
<i>Townsendia exscapa</i>									
<i>Tradescantia occidentalis</i>									
<i>Vicia americana</i>					P				
<i>Viola nuttallii</i>			P	P	P	(1)	P		
<i>Virgulus falcatus</i>	P		P	6	2		1	P	P
TOTAL NATIVE PERENNIAL FORBS	3	11(1)	24(4)	15(2)	17(2)	21(2)	17(1)	10(2)	8
INTRODUCED PERENNIAL FORBS									
<i>Arabis hirsuta</i>									
<i>Breia arvensis</i>									
<i>Cardaria chalapensis</i>									
<i>Cichorium intybus</i>									
<i>Convolvulus arvensis</i>	1	2	(2)	5(1)		P	2	11(1)	1
<i>Hypericum perforatum</i>									
<i>Linaria genistifolia ssp. dalmatica</i>		4							
<i>Lotus tenuis</i>	1								
<i>Marrubium vulgare</i>									
<i>Medicago sativa</i>									
<i>Taraxacum officinale</i>	P	P	P	1	P		P	P	P
<i>Trifolium hybridum</i>	P								
<i>Trifolium pratense</i>									
<i>Verbena bracteata</i>									
TOTAL INTRO. PERENNIAL FORBS	2	6	(2)	6(1)	P	P	2	11(1)	1

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PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	11	13	14	15	16	17	18	19	20
NATIVE PERENNIAL GRASSES (cool)									
<i>Agrostis</i> spp.	1								
<i>Carex foenea</i>									
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>		1	1		P				
<i>Carex praegracilis</i>									
<i>Carex</i> spp.									
<i>Critesion brachyantherum</i>									
<i>Critesion jubatum</i>	1					1	1	P	
<i>Dicanthelium oligosanthes</i> var. <i>scribnerianum</i>	1								
<i>Elymus elymoides</i>		P							
<i>Elymus lanceolatus</i> fm. <i>albicans</i>									
<i>Elymus longifolius</i>									
<i>Hesperostipa comata</i>		5	4(3)		P	P	P		
<i>Juncus arcticus</i> ssp. <i>ater</i>									
<i>Koeleria macrantha</i>		1	P		P		P		
<i>Nassella viridula</i>									P
<i>Pascopyrum smithii</i>	P			2	P	1	1	3(2)	3
<i>Pascopyrum smithii</i> var. <i>smithii</i>									
<i>Poa agassizensis</i>	3	P			1		P		
<i>Poa compressa</i>	2		1		8				
<i>Poa secunda</i>									
TOTAL NATIVE PERENNIAL GRASSES (c)	8	7	6(3)	2	9	2	2	3(2)	3
INTRODUCED PERENNIAL GRASSES (cool)									
<i>Agropyron cristatum</i>									
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>									
<i>Agrostis gigantea</i>									
<i>Bromopsis inermis</i>	2							14(1)	12
<i>Dactylis glomerata</i>	1								4
<i>Elytrigia repens</i>									
<i>Festuca pratensis</i>									
<i>Juncus effusus</i>									
<i>Phleum pratense</i>			1						
<i>Schedonnardus paniculatus</i>	1			P					
<i>Thinopyrum intermedium</i>									1
TOTAL INTRO. PERENNIAL GRASSES (c)	4	---	1	P	---	---	---	14(1)	17
NATIVE PERENNIAL GRASSES (warm)									
<i>Andropogon gerardii</i>		34(2)	6(2)		6	4	16(2)		
<i>Aristida purpurea</i>	1	P		P	P	P	2	2	3
<i>Bouteloua curtipendula</i>		P			1	P	P		
<i>Buchloe dactyloides</i>	1		1	P	1			P	
<i>Calamovilfa longifolia</i>									P
<i>Chondrosum gracile</i>		5(4)	9(7)	2(1)		P	3	2	
<i>Chondrosum hirsutum</i>						1			
<i>Distichlis spicata</i> ssp. <i>stricta</i>									
<i>Panicum virgatum</i>									P
<i>Schizachyrium scoparium</i>							P		
<i>Sporobolus cryptandrus</i>	2								P
<i>Sporobolus heterolepis</i>									
TOTAL NATIVE PERENNIAL GRASSES (w)	4	39(6)	16(9)	2(1)	8	5	21(2)	4	3
NATIVE SHRUBS									
<i>Amorpha nana</i>									
<i>Chrysothamnus nauseosus</i>						3			
<i>Crataegus rivularis</i>									
<i>Eriogonum effusum</i>						P			
<i>Rosa sayi</i>				4	1		4	13(1)	3
<i>Symphoricarpos rotundifolius</i>									
<i>Yucca glauca</i>		P	P		P	2	1(1)		P
TOTAL NATIVE SHRUBS	---	P	P	4	1	5	5(1)	13(1)	3

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	11	13	14	15	16	17	18	19	20
INTRODUCED TREES									
Ulmus pumila									
TOTAL INTRODUCED TREES	---	---	---	---	---	---	---	---	---
FERNS									
Hippochaete hyemalis ssp. affinis	P								
Hippochaete laevigata									
TOTAL FERNS	P	---	---	---	---	---	---	---	---
BRYOPHYTES									
Moss									
TOTAL BRYOPHYTES	---	---	---	---	---	---	---	---	---
LICHEN									
Lichen									
Parmelia chlorocroa									
TOTAL LICHEN	---	---	---	---	---	---	---	---	---
SUCCULENT									
Coryphantha vivipara var. vivipara				P	P				
Echinocereus viridiflorus			1						
Opuntia fragilis			P		P				
Opuntia macrorhiza			P	P	P	P			
Opuntia polyacantha									
TOTAL SUCCULENT	---	---	1	P	P	P	---	---	---
MUSHROOMS									
Fungus									
TOTAL MUSHROOMS	---	---	---	---	---	---	---	---	---
Standing dead			5	2	4	1	3	4	3
Litter	12	21	21	28	47	23	25	27	30
Bare soil	26	3	8	1	7	14	8	5	22
Rock	1	2	1			4	3	1	1
TOTALS	100	100	100	100	100	100	100	100	100
TOTAL VEGETATION COVER	61(1)	74(7)	65(18)	69(15)	42(2)	58(3)	61(7)	63(8)	44
GROUND COVER (Litter+Rock+Veg+St.Dead)	74(1)	97(7)	92(18)	99(15)	93(2)	86(3)	92(7)	95(8)	78
SPECIES DENSITY (# of species/100 sq.m.) (AVERAGE = 31.4 Std.Dev. = 14.2)	35	35	49	41	55	51	43	25	29

Table 1. Cover Data — All Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	21	22	23	24	25	26	27	28	29
NATIVE ANNUAL & BIENNIAL FORBS									
<i>Androsace occidentalis</i>									P
<i>Androsace septentrionalis</i>									
<i>Cirsium undulatum</i>				P		P			
<i>Collinsia parviflora</i>									P
<i>Collomia linearis</i>									
<i>Cryptantha minima</i>							P		
<i>Descurainia incana</i>									
<i>Descurainia pinnata</i>			P			P	P	P	
<i>Draba reptans</i>							P	P	
<i>Draba spp.</i>			1						
<i>Dyssodia papposa</i>									
<i>Erigeron divergens</i>									
<i>Erysimum asperum</i>				P		P			
<i>Frasera speciosa</i>									
<i>Grindelia squarrosa</i>									
<i>Hedeoma hispidum</i>							P		
<i>Helianthus annuus</i>									
<i>Helianthus petiolaris</i>									
<i>Machaeranthera tanacetifolia</i>					5(3)				
<i>Oligosporus pacificus</i>				P					
<i>Oreocarya virgata</i>									
<i>Plantago patagonica</i>			6	P			P		29(1)
<i>Pterogonum alatum</i>		2							
<i>Salvia aethiopsis</i>									
<i>Silene antirrhina</i>									
<i>Tithymalus spathulatus</i>									
TOTAL NATIVE ANN. & BIEN. FORBS	---	2	7	P	5(3)	P	P	P	29(1)
INTRODUCED ANNUAL & BIENNIAL FORBS									
<i>Acosta diffusa</i>				P					
<i>Alyssum minus</i>			P						
<i>Camelina microcarpa</i>						2	1(1)	1	
<i>Cardaria draba</i>	12							P	
<i>Carduus nutans ssp. macrolepis</i>						P			
<i>Chamaesyce glyptosperma</i>						1		P	
<i>Cirsium vulgare</i>									
<i>Crepis capillaris</i>									
<i>Cynoglossum officinale</i>									
<i>Descurainia sophia</i>					P				
<i>Dipsacus sylvestris</i>									
<i>Erodium cicutarium</i>			P			P	4		
<i>Lactuca serriola</i>						P	P	P	
<i>Lappula redowskii</i>			P				P	(1)	P
<i>Lepidium densiflorum</i>				P					P
<i>Medicago lupulina</i>									
<i>Melilotus officinalis</i>	1	P			1	P			
<i>Neolepia campestre</i>									
<i>Noccaea montana</i>									
<i>Plantago lanceolata</i>									
<i>Podospermum laciniatum</i>				P					
<i>Polygonum ramosissimum</i>					P				
<i>Sisymbrium altissimum</i>			P		P	P	P	P	P
<i>Solanum americanum</i>									
<i>Tragopogon dubius ssp. major</i>		P		P				1(2)	
<i>Turritis glabra</i>									
<i>Verbascum blattaria</i>									
<i>Verbascum phlomoides</i>									
<i>Verbascum thapsus</i>	P								
TOTAL INTRO. ANN. & BIEN. FORBS	13	P	P	P	1	3	5(1)	2(3)	P
NATIVE ANNUAL GRASSES									
<i>Critesion pusillum</i>									
<i>Vulpia octoflora</i>			1	P				P	
TOTAL NATIVE ANN. GRASSES	---	---	1	P	---	---	---	P	---

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PLANT SPECIES	Percent Foliar Cover*								
	21	22	23	24	25	26	27	28	29
----- SAMPLE NUMBER -----									
INTRODUCED ANNUAL GRASSES									
Anisantha tectorum			9	5(1)			6	2	16
Bromus japonicus							3	3	
Cylindropyrum cylindricum									
TOTAL INTRO. ANN. GRASSES	---	---	9	5(1)	---	---	9	5	16
NATIVE PERENNIAL FORBS									
Acetosella vulgaris									
Achillea lanulosa									
Adenolinum lewisii									
Agoseris glauca								1	
Allium textile									
Ambrosia psilostachya var. coronopifolia									
Amerosedum lanceolatum									
Antennaria corymbosa									
Antennaria spp.								P	
Aphyllon fasciculatum									
Apocynum cannabinum									
Argemone polyanthemus									
Arnica fulgens									
Artemisia frigida				P		P	P	3	P
Artemisia ludoviciana						1			
Asclepias pumila									
Asclepias speciosa									
Asclepias viridiflora									
Aster porteri									
Astragalus agrestis							1(2)		
Astragalus bisulcatus									
Astragalus crassicaulus				P					
Astragalus drummondii									
Astragalus flexuosus									
Astragalus miser var. oblongifolius									
Astragalus shortianus			P						
Astragalus tridactylus								P	
Calochortus gunnisonii									
Calylophus serrulatus									
Castilleja sessiliflora									
Comandra umbellata ssp. pallida			P			P			
Dalea candida var. oligophylla									
Dalea purpurea						P	P	P	
Delphinium ramosum									
Drymocallis fissa									
Eremogone fendleri									
Erigeron canus				P					
Erigeron flagellaris								P	
Evolvulus nuttallianus								P	
Gaillardia aristata								P	
Gastrolychnis drummondii									
Gaura coccinea			P	1	P	P	P		
Glandularia bipinnatifida									
Gutierrezia sarothrae				P		2	P	3(1)	
Hedysarum boreale									
Helianthus pumilus						1(1)			
Heterotheca fulcrata									
Heterotheca villosa				2(1)			P	1	
Heuchera hallii									
Hybanthus verticillatus									
Hymenopappus filifolius									
Ipomopsis spicata									
Iris missouriensis									
Lesquerella montana				P					

Table 1. Cover Data — All Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	21	22	23	24	25	26	27	28	29
NATIVE PERENNIAL FORBS (concluded)									
<i>Lomatium orientale</i>			P					P	
<i>Lupinus caudatus</i>									
<i>Lygodesmia juncea</i>				P				P	
<i>Machaeranthera canescens</i>				P		P			
<i>Machaeranthera pinnatifida</i>				P					
<i>Mertensia lanceolata</i>							P	P	
<i>Monarda pectinata</i>								P	
<i>Musineon divaricatum</i>			P						
<i>Nothocalais cuspidata</i>									
<i>Oenothera caespitosa</i>			P						
<i>Oenothera howardii</i>				P		1			
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>				P		1		3	P
<i>Onosmodium molle</i> ssp. <i>occidentale</i>									
<i>Oxalis dillenii</i>									
<i>Oxybaphus linearis</i>						P			
<i>Oxybaphus nyctagineus</i>									
<i>Oxytropis x sericea</i>				4				P	
<i>Packera fendleri</i>									
<i>Packera plattensis</i>					5(1)				
<i>Paronychia jamesii</i>									
<i>Penstemon secundiflorus</i>									
<i>Penstemon virens</i>									
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>			P						
<i>Phacelia hastata</i>									
<i>Phlox longifolia</i>									
<i>Phyla cuneifolia</i>									
<i>Physalis heterophylla</i>								P	
<i>Picradeniopsis oppositifolia</i>									
<i>Potentilla hippiana</i>									
<i>Psoraleidium tenuiflorum</i>			P	7		3		P	
<i>Ratibida columnifera</i>									
<i>Rumex crispus</i>			P						
<i>Scutellaria brittonii</i>								P	
<i>Senecio integerrimus</i>								P	
<i>Senecio spartioides</i>								P	
<i>Solanum</i> spp.			P						
<i>Solidago missouriensis</i>									
<i>Solidago simplex</i> var. <i>nana</i>									
<i>Solidago speciosus</i>									
<i>Solidago</i> spp.									
<i>Sphaeralcea coccinea</i>			4	P			P	P	P
<i>Thelesperma megapotamicum</i>								P	
<i>Tithymalus brachyceras</i>									
<i>Townsendia exscapa</i>									
<i>Tradescantia occidentalis</i>									
<i>Vicia americana</i>									
<i>Viola nuttallii</i>			P				P	P	
<i>Virgulus falcatus</i>								1	P
TOTAL NATIVE PERENNIAL FORBS	---	---	4	14(1)	5(1)	9(1)	1(2)	12(1)	P
INTRODUCED PERENNIAL FORBS									
<i>Arabis hirsuta</i>									
<i>Breia arvensis</i>	1								
<i>Cardaria chalapensis</i>	P	1							
<i>Cichorium intybus</i>									
<i>Convolvulus arvensis</i>	10(1)	2	34(3)		58(2)	5(1)	39(6)	(1)	17(2)
<i>Hypericum perforatum</i>									
<i>Linaria genistifolia</i> ssp. <i>dalmatica</i>									
<i>Lotus tenuis</i>									
<i>Marrubium vulgare</i>									
<i>Medicago sativa</i>									
<i>Taraxacum officinale</i>									
<i>Trifolium hybridum</i>									P
<i>Trifolium pratense</i>									
<i>Verbena bracteata</i>	P		P				4		
TOTAL INTRO. PERENNIAL FORBS	11(1)	3	34(3)	---	58(2)	5(1)	43(6)	(1)	17(2)

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	21	22	23	24	25	26	27	28	29
NATIVE PERENNIAL GRASSES (cool)									
<i>Agrostis</i> spp.									
<i>Carex foenea</i>									
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>				13(1)				1	
<i>Carex praegracilis</i>									
<i>Carex</i> spp.		14							
<i>Critesion brachyantherum</i>									
<i>Critesion jubatum</i>									
<i>Dicanthelium oligosanthes</i> var. <i>scribnerianum</i>									
<i>Elymus elymoides</i>									
<i>Elymus lanceolatus</i> fm. <i>albicans</i>									
<i>Elymus longifolius</i>								P	
<i>Hesperostipa comata</i>				10(3)		1		17	
<i>Juncus arcticus</i> ssp. <i>ater</i>									
<i>Koeleria macrantha</i>				P		P		P	
<i>Nassella viridula</i>									
<i>Pascopyrum smithii</i>	30	12	10			1	2	(1)	2
<i>Pascopyrum smithii</i> var. <i>smithii</i>									
<i>Poa agassizensis</i>		22		2				1	
<i>Poa compressa</i>				P					
<i>Poa secunda</i>				P					
TOTAL NATIVE PERENNIAL GRASSES (c)	30	48	10	25(4)	---	2	2	19(1)	2
INTRODUCED PERENNIAL GRASSES (cool)									
<i>Agropyron cristatum</i>						P			
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>				1					
<i>Agrostis gigantea</i>									
<i>Bromopsis inermis</i>	1	1							
<i>Dactylis glomerata</i>									
<i>Elytrigia repens</i>									
<i>Festuca pratensis</i>									
<i>Juncus effusus</i>									
<i>Phleum pratense</i>									
<i>Schedonnardus paniculatus</i>									
<i>Thinopyrum intermedium</i>									
TOTAL INTRO. PERENNIAL GRASSES (c)	1	1	---	1	---	P	---	---	---
NATIVE PERENNIAL GRASSES (warm)									
<i>Andropogon gerardii</i>								1(1)	
<i>Aristida purpurea</i>			2			3	P		
<i>Bouteloua curtipendula</i>				1				2(1)	
<i>Buchloe dactyloides</i>			4(1)						
<i>Calamovilfa longifolia</i>									
<i>Chondrosum gracile</i>				2			2	1	
<i>Chondrosum hirsutum</i>	P					P		P	
<i>Distichlis spicata</i> ssp. <i>stricta</i>		P							
<i>Panicum virgatum</i>									
<i>Schizachyrium scoparium</i>									
<i>Sporobolus cryptandrus</i>									
<i>Sporobolus heterolepis</i>									
TOTAL NATIVE PERENNIAL GRASSES (w)	P	P	6(1)	3	---	3	2	4(2)	---
NATIVE SHRUBS									
<i>Amorpha nana</i>									
<i>Chrysothamnus nauseosus</i>				3					
<i>Crataegus rivularis</i>									
<i>Eriogonum effusum</i>						2			
<i>Rosa sayi</i>									
<i>Symphoricarpos rotundifolius</i>									
<i>Yucca glauca</i>			P	P		4		10	
TOTAL NATIVE SHRUBS	---	---	P	3	---	6	---	10	---

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PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	21	22	23	24	25	26	27	28	29
INTRODUCED TREES									
<i>Ulmus pumila</i>									
TOTAL INTRODUCED TREES	---	---	---	---	---	---	---	---	---
FERNS									
<i>Hippochaete hyemalis</i> ssp. <i>affinis</i>									
<i>Hippochaete laevigata</i>									
TOTAL FERNS	---	---	---	---	---	---	---	---	---
BRYOPHYTES									
Moss									
TOTAL BRYOPHYTES	---	---	---	---	---	---	---	---	---
LICHEN									
<i>Parmelia chlorocroa</i>									
TOTAL LICHEN	---	---	---	---	---	---	---	---	---
SUCCULENT									
<i>Coryphantha vivipara</i> var. <i>vivipara</i>									
<i>Echinocereus viridiflorus</i>				P				P	
<i>Opuntia fragilis</i>				P				P	
<i>Opuntia macrorhiza</i>				P		P		P	
<i>Opuntia polyacantha</i>									
TOTAL SUCCULENT	---	---	---	P	---	P	---	P	---
MUSHROOMS									
Fungus	P						P		
TOTAL MUSHROOMS	P	---	---	---	---	---	P	---	---
Standing dead		1		5		1		7	
Litter	15	42	11	38	7	22	32	35	18
Bare soil	30	3	18	6	24	45	6	4	18
Rock						4		2	
TOTALS	100	100	100	100	100	100	100	100	100
TOTAL VEGETATION COVER	55(1)	54	71(4)	51(6)	69(6)	28(2)	62(9)	52(8)	64(3)
GROUND COVER (Litter+Rock+Veg+St.Dead)	70(1)	97	82(4)	94(6)	76(6)	55(2)	94(9)	96(8)	82(3)
SPECIES DENSITY (# of species/100 sq.m.) (AVERAGE = 31.4 Std.Dev. = 14.2)	11	10	28	40	8	33	28	52	14

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	30	31	32	33	34	35	36	37	38	
NATIVE ANNUAL & BIENNIAL FORBS										
<i>Androsace occidentalis</i>										
<i>Androsace septentrionalis</i>										
<i>Cirsium undulatum</i>			P						P	
<i>Collinsia parviflora</i>										
<i>Collomia linearis</i>										
<i>Cryptantha minima</i>										
<i>Descurainia incana</i>										
<i>Descurainia pinnata</i>										
<i>Draba reptans</i>	P									
<i>Draba spp.</i>										
<i>Dyssodia papposa</i>								1	P	
<i>Erigeron divergens</i>										
<i>Erysimum asperum</i>										
<i>Frasera speciosa</i>										
<i>Grindelia squarrosa</i>	P		P		P				P	
<i>Hedeoma hispidum</i>							P			
<i>Helianthus annuus</i>										
<i>Helianthus petiolaris</i>										
<i>Machaeranthera tanacetifolia</i>										
<i>Oligosporus pacificus</i>										
<i>Oreocarya virgata</i>										
<i>Plantago patagonica</i>	P	10(1)	P	P					P	
<i>Pterogonum alatum</i>										
<i>Salvia aethiopis</i>						P		P	11(2)	
<i>Silene antirrhina</i>										
<i>Tithymalus spathulatus</i>									1	
TOTAL NATIVE ANN. & BIEN. FORBS	P	10(1)	P	P	P	P	P	1	12(2)	
INTRODUCED ANNUAL & BIENNIAL FORBS										
<i>Acosta diffusa</i>									P	
<i>Alyssum minus</i>	2			1(1)	3(1)				9(2)	
<i>Camelina microcarpa</i>	P		P							
<i>Cardaria draba</i>										
<i>Carduus nutans ssp. macrolepis</i>	P	1		1	P					
<i>Chamaesyce glyptosperma</i>						P				
<i>Cirsium vulgare</i>										
<i>Crepis capillaris</i>										
<i>Cynoglossum officinale</i>										
<i>Descurainia sophia</i>										
<i>Dipsacus sylvestris</i>				P						
<i>Erodium cicutarium</i>		3(1)	5(3)		P	P	P	P	P	
<i>Lactuca serriola</i>	1								P	
<i>Lappula redowskii</i>										
<i>Lepidium densiflorum</i>	P									
<i>Medicago lupulina</i>		P		4(7)	1					
<i>Melilotus officinalis</i>										
<i>Neolepia campestre</i>		P								
<i>Noccaea montana</i>			P							
<i>Plantago lanceolata</i>		P	5(1)							
<i>Podospermum laciniatum</i>	P								P	
<i>Polygonum ramosissimum</i>										
<i>Sisymbrium altissimum</i>			P							
<i>Solanum americanum</i>										
<i>Tragopogon dubius ssp. major</i>	2				P					
<i>Turritis glabra</i>										
<i>Verbascum blattaria</i>										
<i>Verbascum phlomoides</i>										
<i>Verbascum thapsus</i>		1						(1)		
TOTAL INTRO. ANN. & BIEN. FORBS	5	5(1)	10(4)	6(8)	4(1)	P	P	(1)	9(2)	
NATIVE ANNUAL GRASSES										
<i>Criticism pusillum</i>										
<i>Vulpia octoflora</i>	1		2(1)			P				
TOTAL NATIVE ANN. GRASSES	1	---	2(1)	---	---	P	---	---	---	

Table 1. Cover Data - All Sites, Boulder City Open Space Prairie Dog Study, CO - June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	30	31	32	33	34	35	36	37	38
INTRODUCED ANNUAL GRASSES									
Anisantha tectorum	4(2)	P	2			19	5	1	2
Bromus japonicus	6				4		2		2
Cylindropyrum cylindricum									
TOTAL INTRO. ANN. GRASSES	10(2)	P	2	---	4	19	7	1	4
NATIVE PERENNIAL FORBS									
Acetosella vulgaris									
Achillea lanulosa									
Adenolinum lewisii									P
Agoseris glauca									
Allium textile	P							P	
Ambrosia psilostachya var. coronopifolia									
Amerosedum lanceolatum									
Antennaria corymbosa									
Antennaria spp.									
Aphyllon fasciculatum									P
Apocynum cannabinum									
Argemone polyanthemom	P								
Arnica fulgens									
Artemisia frigida	1					P	P		1
Artemisia ludoviciana									P
Asclepias pumila				P					
Asclepias speciosa								P	
Asclepias viridiflora									
Aster porteri									
Astragalus agrestis									
Astragalus bisulcatus									
Astragalus crassicaupus									
Astragalus drummondii									P
Astragalus flexuosus									
Astragalus miser var. oblongifolius									1
Astragalus shortianus									
Astragalus tridactylus				P					
Calochortus gunnisonii									
Calylophus serrulatus									
Castilleja sessiliflora									
Comandra umbellata ssp. pallida									
Dalea candida var. oligophylla								P	P
Dalea purpurea									
Delphinium ramosum									
Drymocallis fissa									
Eremogone fendleri									
Erigeron canus									
Erigeron flagellaris		6	P		P				P
Evolvulus nuttallianus						P			
Gaillardia aristata									
Gastrolychnis drummondii									
Gaura coccinea	P			P		P			P
Glandularia bipinnatifida						1			P
Gutierrezia sarothrae	P			P					3
Hedysarum boreale									
Helianthus pumilus									
Heterotheca fulcrata				P					
Heterotheca villosa				P					P
Heuchera hallii									
Hybanthus verticillatus									2
Hymenopappus filifolius									
Ipomopsis spicata									
Iris missouriensis									
Lesquerella montana									
Leucocrinum montanum									
Liatris punctata				P		P			
Lithospermum ruderae				P					

Table 1. Cover Data — All Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	30	31	32	33	34	35	36	37	38
NATIVE PERENNIAL FORBS (concluded)									
<i>Lomatium orientale</i>	P			P					P
<i>Lupinus caudatus</i>									
<i>Lygodesmia juncea</i>	P								
<i>Machaeranthera canescens</i>									
<i>Machaeranthera pinnatifida</i>									
<i>Mertensia lanceolata</i>									P
<i>Monarda pectinata</i>									
<i>Musineon divaricatum</i>									P
<i>Nothocalais cuspidata</i>									
<i>Oenothera caespitosa</i>									
<i>Oenothera howardii</i>									
<i>Oligosporus dracunculus ssp. glaucus</i>	3								
<i>Onosmodium molle ssp. occidentale</i>									
<i>Oxalis dillenii</i>									
<i>Oxybaphus linearis</i>									
<i>Oxybaphus nyctagineus</i>									
<i>Oxytropis x sericea</i>									
<i>Packera fendleri</i>									
<i>Packera plattensis</i>									
<i>Paronychia jamesii</i>									
<i>Penstemon secundiflorus</i>									
<i>Penstemon virens</i>									
<i>Penstemon virgatus ssp. asa-grayi</i>									
<i>Phacelia hastata</i>									
<i>Phlox longifolia</i>									
<i>Phyla cuneifolia</i>									
<i>Physalis heterophylla</i>									
<i>Picradeniopsis oppositifolia</i>				(1)					
<i>Potentilla hippiana</i>									
<i>Psoraleidium tenuiflorum</i>	P			P		P		P	P
<i>Ratibida columnifera</i>									P
<i>Rumex crispus</i>									
<i>Scutellaria brittonii</i>									
<i>Senecio integerrimus</i>									
<i>Senecio spartioides</i>									
<i>Solanum spp.</i>									
<i>Solidago missouriensis</i>									
<i>Solidago simplex var. nana</i>									1
<i>Solidago speciosus</i>									
<i>Solidago spp.</i>									
<i>Sphaeralcea coccinea</i>	P			P		P		P	P
<i>Thelesperma megapotamicum</i>						P			
<i>Tithymalus brachyceras</i>									
<i>Townsendia exscapa</i>									
<i>Tradescantia occidentalis</i>									
<i>Vicia americana</i>									
<i>Viola nuttallii</i>									P
<i>Virgulus falcatus</i>		P		P	P		P		(1)
TOTAL NATIVE PERENNIAL FORBS	4	6	P	(1)	P	1	P	P	8(1)
INTRODUCED PERENNIAL FORBS									
<i>Arabis hirsuta</i>									
<i>Breia arvensis</i>									
<i>Cardaria chalapensis</i>									
<i>Cichorium intybus</i>									
<i>Convolvulus arvensis</i>		16	2	6(1)	17(2)	2	2(1)	1	(1)
<i>Hypericum perforatum</i>									
<i>Linaria genistifolia ssp. dalmatica</i>									
<i>Lotus tenuis</i>									
<i>Marrubium vulgare</i>									
<i>Medicago sativa</i>									
<i>Taraxacum officinale</i>	P		1	5(4)					P
<i>Trifolium hybridum</i>									
<i>Trifolium pratense</i>									
<i>Verbena bracteata</i>									
TOTAL INTRO. PERENNIAL FORBS	P	16	3	11(5)	17(2)	2	2(1)	1	(1)

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Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	30	31	32	33	34	35	36	37	38
INTRODUCED TREES									
<i>Ulmus pumila</i>									
TOTAL INTRODUCED TREES	---	---	---	---	---	---	---	---	---
FERNS									
<i>Hippochaete hyemalis ssp. affinis</i>									
<i>Hippochaete laevigata</i>									
TOTAL FERNS	---	---	---	---	---	---	---	---	---
BRYOPHYTES									
Moss									
TOTAL BRYOPHYTES	---	---	---	---	---	---	---	---	---
LICHEN									
Lichen									
<i>Parmelia chlorocroa</i>	1 (1)								
TOTAL LICHEN	1 (1)	---	---	---	---	---	---	---	---
SUCCULENT									
<i>Coryphantha vivipara var. vivipara</i>									
<i>Echinocereus viridiflorus</i>	P								
<i>Opuntia fragilis</i>	P								
<i>Opuntia macrorrhiza</i>	P								
<i>Opuntia polyacantha</i>									P
TOTAL SUCCULENT	P	---	---	---	---	---	---	---	P
MUSHROOMS									
Fungus					P	P			
TOTAL MUSHROOMS	---	---	---	---	P	P	---	---	---
Standing dead	6		1	2			1		
Litter	29	15	28	25	37	34	23	28	30
Bare soil	8	9	1	9	2	12	5	62	21
Rock	1	2			1	2		4	
TOTALS	100	100	100	100	100	100	100	100	100
TOTAL VEGETATION COVER	56(13)	74(4)	70(9)	64(18)	60(6)	52(3)	71(10)	6(1)	49(8)
GROUND COVER (Litter+Rock+Veg+St.Dead)	92(13)	91(4)	99(9)	91(18)	98(6)	88(3)	95(10)	38(1)	79(8)
SPECIES DENSITY (# of species/100 sq.m.) (AVERAGE = 31.4 Std.Dev. = 14.2)	36	13	24	25	14	19	10	15	43

Table 1. Cover Data - All Sites, Boulder City Open Space Prairie Dog Study, CO - June 1997

PLANT SPECIES	Percent Foliar Cover*							
	----- SAMPLE NUMBER -----							
	39	40	41	42	43	44	45	46
NATIVE ANNUAL & BIENNIAL FORBS								
<i>Androsace occidentalis</i>								
<i>Androsace septentrionalis</i>								
<i>Cirsium undulatum</i>					P	P		
<i>Collinsia parviflora</i>								
<i>Collomia linearis</i>					P	P		
<i>Cryptantha minima</i>								
<i>Descurainia incana</i>								
<i>Descurainia pinnata</i>								
<i>Draba reptans</i>								
<i>Draba spp.</i>								
<i>Dyssodia papposa</i>								
<i>Erigeron divergens</i>			P			P		P
<i>Erysimum asperum</i>					P	P		
<i>Frasera speciosa</i>					P			
<i>Grindelia squarrosa</i>					P	P	P	P
<i>Hedeoma hispidum</i>								
<i>Helianthus annuus</i>								
<i>Helianthus petiolaris</i>								
<i>Machaeranthera tanacetifolia</i>								
<i>Oligosporus pacificus</i>					1	P		
<i>Oreocarya virgata</i>					P			
<i>Plantago patagonica</i>							3	(1)
<i>Pterogonum alatum</i>					P	P		
<i>Salvia aethiopis</i>								
<i>Silene antirrhina</i>			P		P	P		
<i>Tithymalus spathulatus</i>								
TOTAL NATIVE ANN. & BIEN. FORBS	---	---	P	---	1	P	3	(1)
INTRODUCED ANNUAL & BIENNIAL FORBS								
<i>Acosta diffusa</i>	1	P	P	P			2	10
<i>Alyssum minus</i>	P			P	3	P	9	7(5)
<i>Camelina microcarpa</i>					P	P		
<i>Cardaria draba</i>								
<i>Carduus nutans ssp. macrolepis</i>	1			P	P			
<i>Chamaesyce glyptosperma</i>								
<i>Cirsium vulgare</i>								
<i>Crepis capillaris</i>						P		
<i>Cynoglossum officinale</i>							P	
<i>Descurainia sophia</i>								
<i>Dipsacus sylvestris</i>								
<i>Erodium cicutarium</i>							9	1
<i>Lactuca serriola</i>			23(4)					
<i>Lappula redowskii</i>								
<i>Lepidium densiflorum</i>								
<i>Medicago lupulina</i>			P					P
<i>Melilotus officinalis</i>	P		P	P				
<i>Neolepia campestre</i>								
<i>Noccaea montana</i>						P		
<i>Plantago lanceolata</i>							P	P
<i>Podospermum laciniatum</i>								P
<i>Polygonum ramosissimum</i>								
<i>Sisymbrium altissimum</i>				P				
<i>Solanum americanum</i>								
<i>Tragopogon dubius ssp. major</i>		P	P	P	1			P
<i>Turritis glabra</i>								
<i>Verbascum blattaria</i>							P	
<i>Verbascum phlomoides</i>								P
<i>Verbascum thapsus</i>			15(1)	33(8)				
TOTAL INTRO. ANN. & BIEN. FORBS	2	P	38(5)	33(8)	4	P	20	18(5)
NATIVE ANNUAL GRASSES								
<i>Criticism pusillum</i>			P					
<i>Vulpia octoflora</i>					P			P
TOTAL NATIVE ANN. GRASSES	---	---	P	---	P	---	---	P

Table 1. Cover Data — All Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997

PLANT SPECIES	Percent Foliar Cover*							
	----- SAMPLE NUMBER -----							
	39	40	41	42	43	44	45	46
INTRODUCED ANNUAL GRASSES								
Anisantha tectorum			3	34(13)	P		P	13(1)
Bromus japonicus				1	12	12(1)		5
Cylindropyrum cylindricum								
TOTAL INTRO. ANN. GRASSES	---	---	3	35(13)	12	12(1)	P	18(1)
NATIVE PERENNIAL FORBS								
Acetosella vulgaris								
Achillea lanulosa					P	2		
Adenolinum lewisii			2					
Agoseris glauca								
Allium textile					P			
Ambrosia psilostachya var. coronopifolia	1		9(3)	P	P	P		P
Amerosedum lanceolatum					P			
Antennaria corymbosa					P			
Antennaria spp.								
Aphyllon fasciculatum					P			
Apocynum cannabinum			1					
Argemone polyanthemus	P							
Arnica fulgens						2		
Artemisia frigida		P			P	P		
Artemisia ludoviciana		P						1
Asclepias pumila			P					
Asclepias speciosa								
Asclepias viridiflora								
Aster porteri								
Astragalus agrestis			P		P	P		
Astragalus bisulcatus	P	P						
Astragalus crassicaupus		P			P			
Astragalus drummondii	P	P						
Astragalus flexuosus						1		
Astragalus miser var. oblongifolius								
Astragalus shortianus								
Astragalus tridactylus								
Calochortus gunnisonii					P	P		
Calyptophus serrulatus								
Castilleja sessiliflora								
Comandra umbellata ssp. pallida						P		
Dalea candida var. oligophylla	P	P						
Dalea purpurea								
Delphinium ramosum								
Drymocallis fissa					P		P	1
Eremogone fendleri					P	P		
Erigeron canus								
Erigeron flagellaris								
Evolvulus nuttalianus		P						
Gaillardia aristata					P			
Gastrolychnis drummondii						P		
Gaura coccinea	P	P	P			P		
Glandularia bipinnatifida								
Gutierrezia sarothrae	P	1			P	P	P	P
Hedysarum boreale		P						
Helianthus pumilus	2(1)	P						
Heterotheca fulcrata					P	P		
Heterotheca villosa	P				P	P		P
Heuchera hallii					3			
Hybanthus verticillatus	P							
Hymenopappus filifolius		P						
Ipomopsis spicata		P						
Iris missouriensis								
Lesquerella montana		P			P	P		
Leucocrinum montanum					2	P		
Liatris punctata		P			P	P		
Lithospermum ruderales								

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*							
	----- SAMPLE NUMBER -----							
	39	40	41	42	43	44	45	46
NATIVE PERENNIAL FORBS (concluded)								
<i>Lomatium orientale</i>		P			1 P			
<i>Lupinus caudatus</i>								
<i>Lygodesmia juncea</i>								
<i>Machaeranthera canescens</i>								
<i>Machaeranthera pinnatifida</i>	P							
<i>Mertensia lanceolata</i>		P	P		P			
<i>Monarda pectinata</i>								
<i>Musineon divaricatum</i>						P		
<i>Nothocalais cuspidata</i>						P		
<i>Oenothera caespitosa</i>								
<i>Oenothera howardii</i>		P						
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>					P	P		
<i>Onosmodium molle</i> ssp. <i>occidentale</i>								
<i>Oxalis dillenii</i>								P
<i>Oxybaphus linearis</i>								
<i>Oxybaphus nyctagineus</i>								P
<i>Oxytropis x sericea</i>		P			P	P		
<i>Packera fendleri</i>								
<i>Packera plattensis</i>								
<i>Paronychia jamesii</i>								
<i>Penstemon secundiflorus</i>	P				P			
<i>Penstemon virens</i>								
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>						P		
<i>Phacelia hastata</i>						P		
<i>Phlox longifolia</i>						P		
<i>Phyla cuneifolia</i>						P		
<i>Physalis heterophylla</i>							28(3)	
<i>Picradeniopsis oppositifolia</i>								
<i>Potentilla hippiana</i>								
<i>Psoraleidium tenuiflorum</i>	P	P	P	P	1 P	3 P	P	
<i>Ratibida columnifera</i>	P							
<i>Rumex crispus</i>			4					
<i>Scutellaria brittonii</i>								
<i>Senecio integririmus</i>						P		
<i>Senecio spartioides</i>								
<i>Solanum</i> spp.								
<i>Solidago missouriensis</i>							P	
<i>Solidago simplex</i> var. <i>nana</i>								
<i>Solidago speciosus</i>								1
<i>Solidago</i> spp.								
<i>Sphaeralcea coccinea</i>	P							
<i>Thelesperma megapotamicum</i>	P							
<i>Tithymalus brachyceras</i>					P	P		
<i>Townsendia exscapa</i>								
<i>Tradescantia occidentalis</i>								
<i>Vicia americana</i>								
<i>Viola nuttallii</i>					P	P		
<i>Virgulus falcatus</i>				P	P	3	1	6
TOTAL NATIVE PERENNIAL FORBS	3(1)	1	16(3)	P	7	11	29(3)	9
INTRODUCED PERENNIAL FORBS								
<i>Arabis hirsuta</i>								
<i>Breia arvensis</i>			11(3)					
<i>Cardaria chalapensis</i>								
<i>Cichorium intybus</i>				P				
<i>Convolvulus arvensis</i>	15	6	9(4)	10		P	16(2)	21(3)
<i>Hypericum perforatum</i>					P	P		
<i>Linaria genistifolia</i> ssp. <i>dalmatica</i>								
<i>Lotus tenuis</i>								
<i>Marrubium vulgare</i>			2					
<i>Medicago sativa</i>								
<i>Taraxacum officinale</i>						P		P
<i>Trifolium hybridum</i>								
<i>Trifolium pratense</i>								P
<i>Verbena bracteata</i>				P			P	P
TOTAL INTRO. PERENNIAL FORBS	15	6	22(7)	10	P	P	16(2)	21(3)

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*							
	----- SAMPLE NUMBER -----							
	39	40	41	42	43	44	45	46
NATIVE PERENNIAL GRASSES (cool)								
<i>Agrostis</i> spp.								
<i>Carex foenea</i>								
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>					3	7		
<i>Carex praegracilis</i>								
<i>Carex</i> spp.								
<i>Critetion brachyantherum</i>								
<i>Critetion jubatum</i>								
<i>Dicanthelium oligosanthes</i> var. <i>scribnerianum</i>								
<i>Elymus elymoides</i>								
<i>Elymus lanceolatus</i> fm. <i>albicans</i>					P			
<i>Elymus longifolius</i>								1
<i>Hesperostipa comata</i>					P			
<i>Juncus arcticus</i> ssp. <i>ater</i>							P	
<i>Koeleria macrantha</i>					P	4		
<i>Nassella viridula</i>					P	1		P
<i>Pascopyrum smithii</i>		P				5(1)		4(1)
<i>Pascopyrum smithii</i> var. <i>smithii</i>					1		P	
<i>Poa agassizensis</i>				P	16(3)	7(2)		P
<i>Poa compressa</i>						7(2)		P
<i>Poa secunda</i>								
TOTAL NATIVE PERENNIAL GRASSES (c)	---	P	---	P	20(3)	31(5)	P	5(1)
INTRODUCED PERENNIAL GRASSES (cool)								
<i>Agropyron cristatum</i>	3	38(1)						
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>								
<i>Agrostis gigantea</i>								P
<i>Bromopsis inermis</i>	3	3	P	P				
<i>Dactylis glomerata</i>								P
<i>Elytrigia repens</i>								
<i>Festuca pratensis</i>								P
<i>Juncus effusus</i>								
<i>Phleum pratense</i>								
<i>Schedonnardus paniculatus</i>								
<i>Thinopyrum intermedium</i>								
TOTAL INTRO. PERENNIAL GRASSES (c)	6	41(1)	P	P	---	---	---	P
NATIVE PERENNIAL GRASSES (warm)								
<i>Andropogon gerardii</i>					P	1		
<i>Aristida purpurea</i>	4	P						P
<i>Bouteloua curtipendula</i>						1		
<i>Buchloe dactyloides</i>						P		
<i>Calamovilfa longifolia</i>								
<i>Chondrosum gracile</i>						P		
<i>Chondrosum hirsutum</i>								
<i>Distichlis spicata</i> ssp. <i>stricta</i>								
<i>Panicum virgatum</i>								
<i>Schizachyrium scoparium</i>					P	1(1)		
<i>Sporobolus cryptandrus</i>				8(2)				P
<i>Sporobolus heterolepis</i>								
TOTAL NATIVE PERENNIAL GRASSES (w)	4	P	---	8(2)	P	3(1)	---	P
NATIVE SHRUBS								
<i>Amorpha nana</i>								
<i>Chrysothamnus nauseosus</i>						P	P	
<i>Crataegus rivularis</i>								P
<i>Eriogonum effusum</i>								
<i>Rosa sayi</i>	P				1		1	5
<i>Symphoricarpos rotundifolius</i>								
<i>Yucca glauca</i>	P			P				
TOTAL NATIVE SHRUBS	P	---	---	P	1	P	1	5

Table 1. Cover Data – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*							
	----- SAMPLE NUMBER -----							
	39	40	41	42	43	44	45	46
INTRODUCED TREES								
Ulmus pumila				1				
TOTAL INTRODUCED TREES	---	---	---	1	---	---	---	---
FERNS								
Hippochaete hyemalis ssp. affinis								
Hippochaete laevigata								
TOTAL FERNS	---	---	---	---	---	---	---	---
BRYOPHYTES								
Moss								
TOTAL BRYOPHYTES	---	---	---	---	---	---	---	---
LICHEN								
Lichen					2			
Parmelia chlorocroa								
TOTAL LICHEN	---	---	---	---	2	---	---	---
SUCCULENT								
Coryphantha vivipara var. vivipara								
Echinocereus viridiflorus								
Opuntia fragilis					P	P		
Opuntia macrorhiza	P				P	P		
Opuntia polyacantha								
TOTAL SUCCULENT	P	---	---	---	P	P	---	---
MUSHROOMS								
Fungus					P			
TOTAL MUSHROOMS	---	---	---	---	P	---	---	---
Standing dead				2	2	4(2)		1
Litter	23	35	15	11	44	34	23	23
Bare soil	38	16	5		4	3	8	
Rock	9	1	1		3	2		
TOTALS	100	100	100	100	100	100	100	100
TOTAL VEGETATION COVER	30(1)	48(1)	79(15)	87(23)	47(3)	57(7)	69(5)	76(11)
GROUND COVER (Litter+Rock+Veg+St. Dead)	62(1)	84(1)	95(15)	100(23)	96(3)	97(9)	92(5)	100(11)
SPECIES DENSITY (# of species/100 sq.m.) (AVERAGE = 31.4 Std.Dev. = 14.2)	27	27	23	20	62	60	21	39

Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
NATIVE ANNUAL & BIENNIAL FORBS					
<i>Androsace occidentalis</i>	0.00	4.35	0.00	0.00	0.00
<i>Androsace septentrionalis</i>	0.00	4.35	0.00	0.00	0.00
<i>Cirsium undulatum</i>	0.00	21.74	0.00	0.00	0.00
<i>Collinsia parviflora</i>	0.00	4.35	0.00	0.00	0.00
<i>Collomia linearis</i>	0.00	4.35	0.00	0.00	0.00
<i>Cryptantha minima</i>	0.00	4.35	0.00	0.00	0.00
<i>Descurainia incana</i>	0.00	4.35	0.00	0.00	0.00
<i>Descurainia pinnata</i>	0.00	13.04	0.00	0.00	0.00
<i>Draba reptans</i>	0.00	4.35	0.00	0.00	0.00
<i>Draba spp.</i>	0.04	4.35	0.07	0.04	0.07
<i>Dyssodia papposa</i>	0.04	4.35	0.07	0.04	0.07
<i>Erigeron divergens</i>	0.00	4.35	0.00	0.00	0.00
<i>Erysimum asperum</i>	0.00	8.70	0.00	0.00	0.00
<i>Frasera speciosa</i>	0.00	4.35	0.00	0.00	0.00
<i>Grindelia squarrosa</i>	0.04	26.09	0.07	0.04	0.07
<i>Hedeoma hispidum</i>	0.00	4.35	0.00	0.00	0.00
<i>Helianthus annuus</i>	0.00	4.35	0.00	0.00	0.00
<i>Helianthus petiolaris</i>	0.00	4.35	0.00	0.00	0.00
<i>Machaeranthera tanacetifolia</i>	0.22	4.35	0.37	0.35	0.54
<i>Oligosporus pacificus</i>	0.04	8.70	0.07	0.04	0.07
<i>Oreocarya virgata</i>	0.00	4.35	0.00	0.00	0.00
<i>Plantago patagonica</i>	2.26	52.17	3.87	2.57	3.98
<i>Pterogonum alatum</i>	0.00	4.35	0.00	0.00	0.00
<i>Salvia aethiopis</i>	0.00	8.70	0.00	0.00	0.00
<i>Silene antirrhina</i>	0.04	26.09	0.07	0.04	0.07
TOTAL NATIVE ANN. & BIEN. FORBS	2.7	87.0	4.6	3.1	4.9
INTRODUCED ANNUAL & BIENNIAL FORBS					
<i>Acosta diffusa</i>	1.00	34.78	1.71	1.22	1.89
<i>Alyssum minus</i>	2.13	69.57	3.65	2.26	3.51
<i>Camelina microcarpa</i>	0.00	4.35	0.00	0.00	0.00
<i>Cardaria draba</i>	0.52	8.70	0.89	0.52	0.81
<i>Carduus nutans ssp. macrolepis</i>	0.65	34.78	1.12	0.65	1.01
<i>Chamaesyce glyptosperma</i>	0.22	8.70	0.37	0.26	0.40
<i>Cirsium vulgare</i>	0.00	4.35	0.00	0.00	0.00
<i>Cynoglossum officinale</i>	0.00	4.35	0.00	0.00	0.00
<i>Descurainia sophia</i>	0.00	8.70	0.00	0.00	0.00
<i>Dipsacus sylvestris</i>	0.00	4.35	0.00	0.00	0.00
<i>Erodium cicutarium</i>	0.83	52.17	1.42	0.87	1.35
<i>Lactuca serriola</i>	1.00	26.09	1.71	1.17	1.82
<i>Lappula redowskii</i>	0.00	13.04	0.00	0.00	0.00
<i>Lepidium densiflorum</i>	0.00	4.35	0.00	0.00	0.00
<i>Medicago lupulina</i>	1.09	21.74	1.86	1.39	2.16
<i>Melilotus officinalis</i>	0.09	26.09	0.15	0.09	0.13
<i>Neolepia campestre</i>	0.00	8.70	0.00	0.00	0.00
<i>Noccaea montana</i>	0.00	4.35	0.00	0.00	0.00
<i>Plantago lanceolata</i>	0.35	21.74	0.60	0.35	0.54
<i>Podospermum laciniatum</i>	0.04	8.70	0.07	0.04	0.07
<i>Polygonum ramosissimum</i>	0.00	8.70	0.00	0.00	0.00
<i>Sisymbrium altissimum</i>	0.04	34.78	0.07	0.04	0.07
<i>Solanum americanum</i>	0.00	4.35	0.00	0.00	0.00
<i>Tragopogon dubius ssp. major</i>	0.09	34.78	0.15	0.09	0.13
<i>Verbascum blattaria</i>	0.04	17.39	0.07	0.04	0.07
<i>Verbascum thapsus</i>	0.96	39.13	1.64	1.04	1.62
TOTAL INTRO. ANN. & BIEN. FORBS	9.0	100.0	15.5	10.0	15.6
NATIVE ANNUAL GRASSES					
<i>Critesion pusillum</i>	0.00	8.70	0.00	0.00	0.00
<i>Vulpia octoflora</i>	0.04	17.39	0.07	0.04	0.07
TOTAL NATIVE ANN. GRASSES	0.0	21.7	0.1	0.0	0.1

Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
INTRODUCED ANNUAL GRASSES					
<i>Anisantha tectorum</i>	7.09	82.61	12.15	7.48	11.60
<i>Bromus japonicus</i>	1.48	17.39	2.53	1.70	2.63
TOTAL INTRO. ANN. GRASSES	8.6	82.6	14.7	9.2	14.2
NATIVE PERENNIAL FORBS					
<i>Acetosella vulgaris</i>	0.04	8.70	0.07	0.04	0.07
<i>Achillea lanulosa</i>	0.04	17.39	0.07	0.09	0.13
<i>Adenolinum lewisii</i>	0.22	17.39	0.37	0.22	0.34
<i>Allium textile</i>	0.00	13.04	0.00	0.00	0.00
<i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>	0.70	47.83	1.19	0.87	1.35
<i>Amerosedum lanceolatum</i>	0.00	4.35	0.00	0.00	0.00
<i>Antennaria corymbosa</i>	0.00	4.35	0.00	0.00	0.00
<i>Aphyllon fasciculatum</i>	0.00	8.70	0.00	0.00	0.00
<i>Apocynum cannabinum</i>	0.04	4.35	0.07	0.04	0.07
<i>Argemone polyanthemum</i>	0.00	4.35	0.00	0.00	0.00
<i>Arnica fulgens</i>	0.00	4.35	0.00	0.00	0.00
<i>Artemisia frigida</i>	0.70	43.48	1.19	0.78	1.21
<i>Artemisia ludoviciana</i>	0.13	26.09	0.22	0.13	0.20
<i>Asclepias pumila</i>	0.00	8.70	0.00	0.00	0.00
<i>Asclepias speciosa</i>	0.00	4.35	0.00	0.00	0.00
<i>Aster porteri</i>	0.00	8.70	0.00	0.00	0.00
<i>Astragalus agrestis</i>	0.04	21.74	0.07	0.13	0.20
<i>Astragalus bisulcatus</i>	0.00	4.35	0.00	0.00	0.00
<i>Astragalus crassicaulus</i>	0.00	4.35	0.00	0.00	0.00
<i>Astragalus drummondii</i>	0.00	4.35	0.00	0.00	0.00
<i>Astragalus shortianus</i>	0.00	8.70	0.00	0.00	0.00
<i>Astragalus tridactylus</i>	0.00	13.04	0.00	0.00	0.00
<i>Calochortus gunnisonii</i>	0.00	4.35	0.00	0.00	0.00
<i>Calylophus serrulatus</i>	0.00	4.35	0.00	0.00	0.00
<i>Castilleja sessiliflora</i>	0.00	8.70	0.00	0.00	0.00
<i>Comandra umbellata</i> ssp. <i>pallida</i>	0.04	8.70	0.07	0.04	0.07
<i>Dalea candida</i> var. <i>oligophylla</i>	0.00	8.70	0.00	0.00	0.00
<i>Dalea purpurea</i>	0.00	4.35	0.00	0.00	0.00
<i>Drymocallis fissa</i>	0.00	8.70	0.00	0.00	0.00
<i>Eremogone fendleri</i>	0.00	4.35	0.00	0.00	0.00
<i>Erigeron canus</i>	0.00	4.35	0.00	0.00	0.00
<i>Erigeron flagellaris</i>	0.30	34.78	0.52	0.30	0.47
<i>Evolvulus nuttallianus</i>	0.00	4.35	0.00	0.00	0.00
<i>Gaillardia aristata</i>	0.00	4.35	0.00	0.00	0.00
<i>Gaura coccinea</i>	0.00	43.48	0.00	0.00	0.00
<i>Glandularia bipinnatifida</i>	0.04	4.35	0.07	0.04	0.07
<i>Gutierrezia sarothrae</i>	0.43	52.17	0.75	0.48	0.74
<i>Helianthus pumilus</i>	0.13	8.70	0.22	0.17	0.27
<i>Heterotheca fulcrata</i>	0.00	13.04	0.00	0.00	0.00
<i>Heterotheca villosa</i>	0.57	30.43	0.97	0.65	1.01
<i>Heuchera hallii</i>	0.13	4.35	0.22	0.13	0.20
<i>Hybanthus verticillatus</i>	0.00	4.35	0.00	0.00	0.00
<i>Hymenopappus filifolius</i>	0.00	4.35	0.00	0.00	0.00
<i>Iris missouriensis</i>	0.00	4.35	0.00	0.00	0.00
<i>Lesquerella montana</i>	0.00	8.70	0.00	0.00	0.00
<i>Leucocrinum montanum</i>	0.13	21.74	0.22	0.13	0.20
<i>Liatris punctata</i>	0.04	30.43	0.07	0.04	0.07
<i>Lithospermum ruderales</i>	0.00	17.39	0.00	0.00	0.00
<i>Lomatium orientale</i>	0.04	26.09	0.07	0.04	0.07
<i>Lupinus caudatus</i>	0.00	4.35	0.00	0.00	0.00
<i>Lygodesmia juncea</i>	0.00	4.35	0.00	0.00	0.00
<i>Machaeranthera canescens</i>	0.00	4.35	0.00	0.00	0.00
<i>Machaeranthera pinnatifida</i>	0.00	8.70	0.00	0.00	0.00
<i>Mertensia lanceolata</i>	0.00	8.70	0.00	0.00	0.00
<i>Monarda pectinata</i>	0.00	8.70	0.00	0.00	0.00
<i>Musineon divaricatum</i>	0.00	8.70	0.00	0.00	0.00
<i>Nothocalais cuspidata</i>	0.00	4.35	0.00	0.00	0.00
<i>Oenothera caespitosa</i>	0.00	4.35	0.00	0.00	0.00

Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
NATIVE PERENNIAL FORBS (concluded)					
<i>Oenothera howardii</i>	0.00	8.70	0.00	0.00	0.00
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>	0.00	8.70	0.00	0.00	0.00
<i>Onosmodium molle</i> ssp. <i>occidentale</i>	0.00	4.35	0.00	0.00	0.00
<i>Oxalis dillenii</i>	0.09	8.70	0.15	0.09	0.13
<i>Oxybaphus linearis</i>	0.00	8.70	0.00	0.00	0.00
<i>Oxybaphus nyctagineus</i>	0.00	4.35	0.00	0.00	0.00
<i>Oxytropis x sericea</i>	0.00	8.70	0.00	0.00	0.00
<i>Packera fendleri</i>	0.00	4.35	0.00	0.00	0.00
<i>Packera plattensis</i>	0.22	4.35	0.37	0.26	0.40
<i>Paronychia jamesii</i>	0.00	4.35	0.00	0.00	0.00
<i>Penstemon secundiflorus</i>	0.00	17.39	0.00	0.00	0.00
<i>Penstemon virens</i>	0.00	4.35	0.00	0.00	0.00
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>	0.00	4.35	0.00	0.00	0.00
<i>Phyla cuneifolia</i>	1.26	8.70	2.16	1.39	2.16
<i>Picradeniopsis oppositifolia</i>	0.00	4.35	0.00	0.04	0.07
<i>Potentilla hippiana</i>	0.00	4.35	0.00	0.00	0.00
<i>Psoralea tenuiflorum</i>	0.91	65.22	1.56	0.96	1.48
<i>Ratibida columnifera</i>	0.00	17.39	0.00	0.00	0.00
<i>Rumex crispus</i>	0.17	8.70	0.30	0.17	0.27
<i>Senecio integerrimus</i>	0.00	4.35	0.00	0.00	0.00
<i>Senecio spartioides</i>	0.04	8.70	0.07	0.04	0.07
<i>Solanum</i> spp.	0.00	4.35	0.00	0.00	0.00
<i>Solidago missouriensis</i>	0.04	8.70	0.07	0.09	0.13
<i>Sphaeralcea coccinea</i>	0.22	52.17	0.37	0.26	0.40
<i>Thelesperma megapotamicum</i>	0.00	13.04	0.00	0.00	0.00
<i>Tithymalus brachyceras</i>	0.04	17.39	0.07	0.04	0.07
<i>Townsendia exscapa</i>	0.00	4.35	0.00	0.00	0.00
<i>Vicia americana</i>	0.04	4.35	0.07	0.04	0.07
<i>Viola nuttallii</i>	0.00	30.43	0.00	0.04	0.07
<i>Virgulus falcatus</i>	0.78	47.83	1.34	1.00	1.55
TOTAL NATIVE PERENNIAL FORBS	7.6	95.7	13.0	8.8	13.6
INTRODUCED PERENNIAL FORBS					
<i>Brexa arvensis</i>	0.52	8.70	0.89	0.65	1.01
<i>Cardaria chalapensis</i>	0.00	4.35	0.00	0.00	0.00
<i>Convolvulus arvensis</i>	12.04	82.61	20.64	13.43	20.84
<i>Hypericum perforatum</i>	0.00	13.04	0.00	0.00	0.00
<i>Linaria genistifolia</i> ssp. <i>dalmatica</i>	0.17	4.35	0.30	0.17	0.27
<i>Lotus tenuis</i>	0.04	4.35	0.07	0.04	0.07
<i>Marrubium vulgare</i>	0.09	4.35	0.15	0.09	0.13
<i>Medicago sativa</i>	0.00	4.35	0.00	0.00	0.00
<i>Taraxacum officinale</i>	0.30	34.78	0.52	0.48	0.74
<i>Trifolium hybridum</i>	0.00	4.35	0.00	0.00	0.00
<i>Verbena bracteata</i>	0.17	21.74	0.30	0.17	0.27
TOTAL INTRO. PERENNIAL FORBS	13.3	95.7	22.9	15.0	23.3
NATIVE PERENNIAL GRASSES (cool)					
<i>Agrostis</i> spp.	0.04	4.35	0.07	0.04	0.07
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>	0.30	17.39	0.52	0.30	0.47
<i>Critetion jubatum</i>	0.09	17.39	0.15	0.09	0.13
<i>Dicanthelium oligosanthos</i> var. <i>scribnerianum</i>	0.04	4.35	0.07	0.04	0.07
<i>Elymus elymoides</i>	0.00	4.35	0.00	0.00	0.00
<i>Elymus lanceolatus</i> fm. <i>albicans</i>	0.00	4.35	0.00	0.00	0.00
<i>Hesperostipa comata</i>	0.39	17.39	0.67	0.39	0.61
<i>Juncus arcticus</i> ssp. <i>ater</i>	0.00	4.35	0.00	0.00	0.00
<i>Koeleria macrantha</i>	0.13	17.39	0.22	0.13	0.20
<i>Nassella viridula</i>	0.00	4.35	0.00	0.00	0.00
<i>Pascopyrum smithii</i>	6.22	65.22	10.66	6.70	10.38
<i>Pascopyrum smithii</i> var. <i>smithii</i>	0.04	8.70	0.07	0.04	0.07
<i>Poa agassizensis</i>	2.00	21.74	3.43	2.17	3.37
<i>Poa compressa</i>	0.09	8.70	0.15	0.09	0.13
<i>Poa secunda</i>	0.00	4.35	0.00	0.00	0.00
TOTAL NATIVE PERENNIAL GRASSES (c)	9.3	78.3	16.0	10.0	15.5

Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
INTRODUCED PERENNIAL GRASSES (cool)					
<i>Agropyron cristatum</i>	0.13	8.70	0.22	0.13	0.20
<i>Bromopsis inermis</i>	0.87	21.74	1.49	0.91	1.42
<i>Dactylis glomerata</i>	0.04	13.04	0.07	0.04	0.07
<i>Schedonnardus paniculatus</i>	1.30	17.39	2.24	1.39	2.16
TOTAL INTRO. PERENNIAL GRASSES (c)	2.3	43.5	4.0	2.5	3.8
NATIVE PERENNIAL GRASSES (warm)					
<i>Andropogon gerardii</i>	1.96	21.74	3.35	2.09	3.24
<i>Aristida purpurea</i>	0.39	47.83	0.67	0.39	0.61
<i>Bouteloua curtipendula</i>	0.04	13.04	0.07	0.04	0.07
<i>Buchloe dactyloides</i>	0.83	34.78	1.42	0.87	1.35
<i>Chondrosum gracile</i>	0.61	34.78	1.04	0.83	1.28
<i>Chondrosum hirsutum</i>	0.04	8.70	0.07	0.04	0.07
<i>Distichlis spicata</i> ssp. <i>stricta</i>	0.00	4.35	0.00	0.00	0.00
<i>Schizachyrium scoparium</i>	0.04	8.70	0.07	0.04	0.07
<i>Sporobolus cryptandrus</i>	0.09	4.35	0.15	0.09	0.13
TOTAL NATIVE PERENNIAL GRASSES (w)	4.0	78.3	6.9	4.4	6.8
NATIVE SHRUBS					
<i>Amorpha nana</i>	0.00	4.35	0.00	0.00	0.00
<i>Chrysothamnus nauseosus</i>	0.22	13.04	0.37	0.22	0.34
<i>Eriogonum effusum</i>	0.00	4.35	0.00	0.00	0.00
<i>Rosa sayi</i>	0.91	26.09	1.56	0.96	1.48
<i>Symphoricarpos rotundifolius</i>	0.00	4.35	0.00	0.00	0.00
<i>Yucca glauca</i>	0.09	21.74	0.15	0.09	0.13
TOTAL NATIVE SHRUBS	1.2	52.2	2.1	1.3	2.0
FERNS					
<i>Hippochaete hyemalis</i> ssp. <i>affinis</i>	0.00	4.35	0.00	0.00	0.00
TOTAL FERNS	0.0	4.3	0.0	0.0	0.0
BRYOPHYTES					
Moss	0.04	4.35	0.07	0.04	0.07
TOTAL BRYOPHYTES	0.0	4.3	0.1	0.0	0.1
LICHEN					
Lichen	0.09	4.35	0.15	0.09	0.13
TOTAL LICHEN	0.1	4.3	0.1	0.1	0.1
SUCCULENT					
<i>Coryphantha vivipara</i> var. <i>vivipara</i>	0.00	4.35	0.00	0.00	0.00
<i>Echinocereus viridiflorus</i>	0.00	4.35	0.00	0.00	0.00
<i>Opuntia fragilis</i>	0.00	4.35	0.00	0.00	0.00
<i>Opuntia macrorhiza</i>	0.00	26.09	0.00	0.00	0.00
TOTAL SUCCULENT	0.0	26.1	0.0	0.0	0.0
MUSHROOMS					
Fungus	0.00	26.09	0.00	0.00	0.00
TOTAL MUSHROOMS	0.0	26.1	0.0	0.0	0.0
Standing dead	0.83	39.13		0.83	
Litter	24.74	100.00		24.74	
Bare soil	14.61	100.00		14.61	
Rock	1.48	47.83		1.48	
TOTALS	100.0			106.1	
TOTAL VEGETATION COVER	58.3 (s=17.3)		100.0	64.5 (s=20.6)	100.0
GROUND COVER (Litter+Rock+Veg+St.Dead)	85.4			91.5	
SPECIES DENSITY (# of species/100 sq.m.) (AVERAGE = 27.7 Std.Dev. = 13.6)					

Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	1	3	5	7	9	11	13	15	17	19
NATIVE ANNUAL & BIENNIAL FORBS										
<i>Androsace occidentalis</i>										
<i>Androsace septentrionalis</i>		P								
<i>Cirsium undulatum</i>				P	P				P	P
<i>Collinsia parviflora</i>										
<i>Collomia linearis</i>										
<i>Cryptantha minima</i>										
<i>Descurainia incana</i>	P									
<i>Descurainia pinnata</i>									P	
<i>Draba reptans</i>										
<i>Draba spp.</i>										
<i>Dyssodia papposa</i>										
<i>Erigeron divergens</i>										
<i>Erysimum asperum</i>		P								
<i>Frasera speciosa</i>										
<i>Grindelia squarrosa</i>	P	P			1			P		
<i>Hedeoma hispidum</i>										
<i>Helianthus annuus</i>										P
<i>Helianthus petiolaris</i>									P	
<i>Machaeranthera tanacetifolia</i>										
<i>Oligosporus pacificus</i>									P	
<i>Oreocarya virgata</i>										
<i>Plantago patagonica</i>	1	1(1)	(1)				P	2(3)	P	
<i>Pterogonum alatum</i>										
<i>Salvia aethiopis</i>										
<i>Silene antirrhina</i>	1	P					P	P		
TOTAL NATIVE ANN. & BIEN. FORBS	2	1(1)	(1)	P	1	---	P	2(3)	P	P
INTRODUCED ANNUAL & BIENNIAL FORBS										
<i>Acosta diffusa</i>	P	P	20(5)		P					P
<i>Alyssum minus</i>	11	3	1	4	1	1	1	6(1)	7	P
<i>Camelina microcarpa</i>										
<i>Cardaria draba</i>		P								
<i>Carduus nutans ssp. macrolepis</i>				P		1		P	11	
<i>Chamaesyce glyptosperma</i>										5(1)
<i>Cirsium vulgare</i>						P				
<i>Cynoglossum officinale</i>										
<i>Descurainia sophia</i>						P				
<i>Dipsacus sylvestris</i>										
<i>Erodium cicutarium</i>	P	P	P			3	P		P	
<i>Lactuca serriola</i>					P		P	P	P	
<i>Lappula redowskii</i>										
<i>Lepidium densiflorum</i>										
<i>Medicago lupulina</i>						21				P
<i>Melilotus officinalis</i>								P		P
<i>Neolepia campestre</i>	P									
<i>Noccaea montana</i>						P				
<i>Plantago lanceolata</i>			1			6	1			
<i>Podospermum laciniatum</i>									1	P
<i>Polygonum ramosissimum</i>						P				
<i>Sisymbrium altissimum</i>		P	P				1		P	
<i>Solanum americanum</i>						P				
<i>Tragopogon dubius ssp. major</i>	P			P	P		P	P	1	
<i>Verbascum blattaria</i>			1		P				P	
<i>Verbascum thapsus</i>			2		2	P	1			1
TOTAL INTRO. ANN. & BIEN. FORBS	11	3	25(5)	4	3	32	4	6(1)	20	6(1)
NATIVE ANNUAL GRASSES										
<i>Critetion pusillum</i>							P			
<i>Vulpia octoflora</i>							P			
TOTAL NATIVE ANN. GRASSES	---	---	---	---	---	---	P	---	---	---

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Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	1	3	5	7	9	11	13	15	17	19
NATIVE PERENNIAL FORBS (concluded)										
<i>Oenothera howardii</i>								P	P	
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>										
<i>Onosmodium molle</i> ssp. <i>occidentale</i>					P					
<i>Oxalis dillenii</i>					1	1				
<i>Oxybaphus linearis</i>							P		P	
<i>Oxybaphus nyctagineus</i>			P							
<i>Oxytropis x sericea</i>				P						
<i>Packera fendleri</i>		P								
<i>Packera plattensis</i>										
<i>Paronychia jamesii</i>				P						
<i>Penstemon secundiflorus</i>				P			P			
<i>Penstemon virens</i>		P								
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>										
<i>Phyla cuneifolia</i>						1				
<i>Picradeniopsis oppositifolia</i>										
<i>Potentilla hippiana</i>				P						
<i>Psoralea tenuiflorum</i>		P		P	2		4	2	6	6(1)
<i>Ratibida columnifera</i>				P				P		
<i>Rumex crispus</i>										
<i>Senecio integerrimus</i>									P	
<i>Senecio spartioides</i>				P					1	
<i>Solanum</i> spp.										
<i>Solidago missouriensis</i>										1(1)
<i>Sphaeralcea coccinea</i>	P	P		P				(1)	1	
<i>Thelesperma megapotamicum</i>								P		
<i>Tithymalus brachyceras</i>				P				P	1	
<i>Townsendia exscapa</i>				P						
<i>Vicia americana</i>	1									
<i>Viola nuttallii</i>				P	P			P	(1)	
<i>Virgulus falcatus</i>	4(5)	6			1	P		6		P
TOTAL NATIVE PERENNIAL FORBS	13(7)	12	2	9(2)	7	3	11(1)	15(2)	21(2)	10(2)
INTRODUCED PERENNIAL FORBS										
<i>Brexa arvensis</i>										
<i>Cardaria chalapensis</i>										
<i>Convolvulus arvensis</i>			33(8)	2(1)		1	2	5(1)	P	11(1)
<i>Hypericum perforatum</i>		P			P					
<i>Linaria genistifolia</i> ssp. <i>dalmatica</i>							4			
<i>Lotus tenuis</i>						1				
<i>Marrubium vulgare</i>										
<i>Medicago sativa</i>			P							
<i>Taraxacum officinale</i>				P	1	P	P	1		P
<i>Trifolium hybridum</i>						P				
<i>Verbena bracteata</i>					P					
TOTAL INTRO. PERENNIAL FORBS	---	P	33(8)	2(1)	1	2	6	6(1)	P	11(1)
NATIVE PERENNIAL GRASSES (cool)										
<i>Agrostis</i> spp.						1				
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>				3			1			
<i>Critetion jubatum</i>				P		1			1	P
<i>Dicanthelium oligosanthos</i> var. <i>scribnerianum</i>						1				
<i>Elymus elymoides</i>							P			
<i>Elymus lanceolatus</i> fm. <i>albicans</i>										
<i>Hesperostipa comata</i>				4			5		P	
<i>Juncus arcticus</i> ssp. <i>ater</i>										
<i>Koeleria macrantha</i>	P			2			1			
<i>Nassella viridula</i>										
<i>Pascopyrum smithii</i>	9(1)	2		P	6(1)	P		2	1	3(2)
<i>Pascopyrum smithii</i> var. <i>smithii</i>										
<i>Poa agassizensis</i>	1				26(1)	3	P			
<i>Poa compressa</i>						2				
<i>Poa secunda</i>		P								
TOTAL NATIVE PERENNIAL GRASSES (c)	10(1)	2	---	9	32(2)	8	7	2	2	3(2)

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PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	1	3	5	7	9	11	13	15	17	19
INTRODUCED PERENNIAL GRASSES (cool)										
Agropyron cristatum										
Bromopsis inermis						2				14(1)
Dactylis glomerata					P	1				
Schedonnardus paniculatus						1		P		
TOTAL INTRO. PERENNIAL GRASSES (c)	---	---	---	---	P	4	---	P	---	14(1)
NATIVE PERENNIAL GRASSES (warm)										
Andropogon gerardii				2(1)	5		34(2)		4	
Aristida purpurea				P		1	P	P	P	2
Bouteloua curtipendula				1			P		P	
Buchloe dactyloides				2		1		P		P
Chondrosum gracile	P	1		2			5(4)	2(1)	P	2
Chondrosum hirsutum									1	
Distichlis spicata ssp. stricta										
Schizachyrium scoparium				1						
Sporobolus cryptandrus						2				
TOTAL NATIVE PERENNIAL GRASSES (w)	P	1	---	8(1)	5	4	39(6)	2(1)	5	4
NATIVE SHRUBS										
Amorpha nana					P					
Chrysothamnus nauseosus		2							3	
Eriogonum effusum									P	
Rosa sayi			2					4		13(1)
Symphoricarpos rotundifolius					P					
Yucca glauca				P			P		2	
TOTAL NATIVE SHRUBS	---	2	2	P	P	---	P	4	5	13(1)
FERNS										
Hippochaete hyemalis ssp. affinis						P				
TOTAL FERNS	---	---	---	---	---	P	---	---	---	---
BRYOPHYTES										
Moss		1								
TOTAL BRYOPHYTES	---	1	---	---	---	---	---	---	---	---
LICHEN										
Lichen										
TOTAL LICHEN	---	---	---	---	---	---	---	---	---	---
SUCCULENT										
Coryphantha vivipara var. vivipara								P		
Echinocereus viridiflorus				P						
Opuntia fragilis										
Opuntia macrorhiza				P	P			P	P	
TOTAL SUCCULENT	---	---	---	P	P	---	---	P	P	---
MUSHROOMS										
Fungus	P				P					
TOTAL MUSHROOMS	P	---	---	---	P	---	---	---	---	---
Standing dead	1	3	1	3				2	1	4
Litter	26	32	19	50	41	12	21	28	23	27
Bare soil	5	23	4	10	2	26	3	1	14	5
Rock		5				1	2		4	1
TOTALS	100	100	100	100	100	100	100	100	100	100
TOTAL VEGETATION COVER	68(11)	37(2)	76(15)	37(4)	57(2)	61(1)	74(7)	69(15)	58(3)	63(8)
GROUND COVER (Litter+Rock+Veg+St.Dead)	95(11)	77(2)	96(15)	90(4)	98(2)	74(1)	97(7)	99(15)	86(3)	95(8)
SPECIES DENSITY (# of species/100 sq.m.)	24	31	16	50	34	35	35	41	51	25
(AVERAGE= 27.7 Std.Dev.= 13.6)										

*P=Present within 1 m. on either side of the cover transect, but not quantitatively encountered.

Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	21	23	25	27	29	31	33	35	37
NATIVE ANNUAL & BIENNIAL FORBS									
<i>Androsace occidentalis</i>					P				
<i>Androsace septentrionalis</i>									
<i>Cirsium undulatum</i>									
<i>Collinsia parviflora</i>					P				
<i>Collomia linearis</i>									
<i>Cryptantha minima</i>				P					
<i>Descurainia incana</i>									
<i>Descurainia pinnata</i>		P		P					
<i>Draba reptans</i>				P					
<i>Draba</i> spp.		1							
<i>Dyssodia papposa</i>									1
<i>Erigeron divergens</i>									
<i>Erysimum asperum</i>									
<i>Frasera speciosa</i>									
<i>Grindelia squarrosa</i>									
<i>Hedeoma hispidum</i>				P					
<i>Helianthus annuus</i>									
<i>Helianthus petiolaris</i>									
<i>Machaeranthera tanacetifolia</i>			5(3)						
<i>Oligosporus pacificus</i>									
<i>Oreocarya virgata</i>									
<i>Plantago patagonica</i>		6		P	29(1)	10(1)	P		
<i>Pterogonum alatum</i>									
<i>Salvia aethiopis</i>								P	P
<i>Silene antirrhina</i>									
TOTAL NATIVE ANN. & BIEN. FORBS	---	7	5(3)	P	29(1)	10(1)	P	P	1
INTRODUCED ANNUAL & BIENNIAL FORBS									
<i>Acosta diffusa</i>									
<i>Alyssum minus</i>		P		1(1)			1(1)		
<i>Camelina microcarpa</i>									
<i>Cardaria draba</i>	12								
<i>Carduus nutans</i> ssp. <i>macrolepis</i>						1	1		
<i>Chamaesyce glyptosperma</i>								P	
<i>Cirsium vulgare</i>									
<i>Cynoglossum officinale</i>									
<i>Descurainia sophia</i>			P						
<i>Dipsacus sylvestris</i>							P		
<i>Erodium cicutarium</i>		P		4		3(1)		P	P
<i>Lactuca serriola</i>				P					
<i>Lappula redowskii</i>		P		P	P				
<i>Lepidium densiflorum</i>					P				
<i>Medicago lupulina</i>						P	4(7)		
<i>Melilotus officinalis</i>	1		1			P			
<i>Neolepia campestre</i>									
<i>Noccaea montana</i>									
<i>Plantago lanceolata</i>						P			
<i>Podospermum laciniatum</i>									
<i>Polygonum ramosissimum</i>			P						
<i>Sisymbrium altissimum</i>		P	P	P	P				
<i>Solanum americanum</i>									
<i>Tragopogon dubius</i> ssp. <i>major</i>									
<i>Verbascum blattaria</i>									
<i>Verbascum thapsus</i>	P					1			(1)
TOTAL INTRO. ANN. & BIEN. FORBS	13	P	1	5(1)	P	5(1)	6(8)	P	(1)
NATIVE ANNUAL GRASSES									
<i>Critesion pusillum</i>								P	
<i>Vulpia octoflora</i>		1							
TOTAL NATIVE ANN. GRASSES	---	1	---	---	---	---	---	P	---

Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	21	23	25	27	29	31	33	35	37
INTRODUCED ANNUAL GRASSES									
Anisantha tectorum		9		6	16	P		19	1
Bromus japonicus				3					
TOTAL INTRO. ANN. GRASSES	---	9	---	9	16	P	---	19	1
NATIVE PERENNIAL FORBS									
Acetosella vulgaris									
Achillea lanulosa									
Adenolinum lewisii									
Allium textile									P
Ambrosia psilostachya var. coronopifolia									
Amerosedum lanceolatum									
Antennaria corymbosa									
Aphyllon fasciculatum									
Apocynum cannabinum									
Argemone polyanthemus									
Arnica fulgens									
Artemisia frigida				P	P			P	
Artemisia ludoviciana									
Asclepias pumila							P		
Asclepias speciosa									P
Aster porteri									
Astragalus agrestis				1(2)					
Astragalus bisulcatus									
Astragalus crassicaupus									
Astragalus drummondii									
Astragalus shortianus		P							
Astragalus tridactylus							P		
Calochortus gunnisonii									
Calylophus serrulatus									
Castilleja sessiliflora									
Comandra umbellata ssp. pallida		P							
Dalea candida var. oligophylla									P
Dalea purpurea				P					
Drymocallis fissa									
Eremogone fendleri									
Erigeron canus									
Erigeron flagellaris						6			
Evolvulus nuttalianus								P	
Gaillardia aristata									
Gaura coccinea		P	P	P			P	P	
Glandularia bipinnatifida									1
Gutierrezia sarothrae				P			P		
Helianthus pumilus									
Heterotheca fulcrata							P		
Heterotheca villosa				P			P		
Heuchera hallii									
Hybanthus verticillatus									
Hymenopappus filifolius									
Iris missouriensis									
Lesquerella montana									
Leucocrinum montanum		P							
Liatris punctata							P	P	
Lithospermum ruderae				P			P		
Lomatium orientale		P					P		
Lupinus caudatus									
Lygodesmia juncea									
Machaeranthera canescens									
Machaeranthera pinnatifida				P					
Mertensia lanceolata									
Monarda pectinata									
Musineon divaricatum		P							
Nothocalais cuspidata									
Oenothera caespitosa		P							

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	21	23	25	27	29	31	33	35	37
NATIVE PERENNIAL FORBS (concluded)									
<i>Oenothera howardii</i>					P				
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>									
<i>Onosmodium molle</i> ssp. <i>occidentale</i>									
<i>Oxalis dillenii</i>									
<i>Oxybaphus linearis</i>									
<i>Oxybaphus nyctagineus</i>									
<i>Oxytropis x sericea</i>									
<i>Packera fendleri</i>									
<i>Packera plattensis</i>			5(1)						
<i>Paronychia jamesii</i>									
<i>Penstemon secundiflorus</i>									
<i>Penstemon virens</i>									
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>		P							
<i>Phyla cuneifolia</i>									
<i>Picradeniopsis oppositifolia</i>							(1)		
<i>Potentilla hippiana</i>									
<i>Psoraleidium tenuiflorum</i>		P					P	P	P
<i>Ratibida columnifera</i>									
<i>Rumex crispus</i>		P							
<i>Senecio integerimus</i>									
<i>Senecio spartioides</i>									
<i>Solanum</i> spp.		P							
<i>Solidago missouriensis</i>									
<i>Sphaeralcea coccinea</i>		4		P	P		P	P	P
<i>Thelesperma megapotamicum</i>								P	
<i>Tithymalus brachyceras</i>									
<i>Townsendia exscapa</i>									
<i>Vicia americana</i>									
<i>Viola nuttallii</i>		P		P					
<i>Virgulus falcatus</i>					P	P	P		
TOTAL NATIVE PERENNIAL FORBS	---	4	5(1)	1(2)	P	6	(1)	1	P
INTRODUCED PERENNIAL FORBS									
<i>Breua arvensis</i>	1								
<i>Cardaria chalepensis</i>	P								
<i>Convolvulus arvensis</i>	10(1)	34(3)	58(2)	39(6)	17(2)	16	6(1)	2	1
<i>Hypericum perforatum</i>									
<i>Linaria genistifolia</i> ssp. <i>dalmatica</i>									
<i>Lotus tenuis</i>									
<i>Marrubium vulgare</i>									
<i>Medicago sativa</i>									
<i>Taraxacum officinale</i>					P		5(4)		
<i>Trifolium hybridum</i>									
<i>Verbena bracteata</i>	P	P		4					
TOTAL INTRO. PERENNIAL FORBS	11(1)	34(3)	58(2)	43(6)	17(2)	16	11(5)	2	1
NATIVE PERENNIAL GRASSES (cool)									
<i>Agrostis</i> spp.									
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>							P		
<i>Critesion jubatum</i>									
<i>Dicanthelium oligosanthes</i> var. <i>scribnerianum</i>									
<i>Elymus elymoides</i>									
<i>Elymus lanceolatus</i> fm. <i>albicans</i>									
<i>Hesperostipa comata</i>									
<i>Juncus arcticus</i> ssp. <i>ater</i>									
<i>Koeleria macrantha</i>									
<i>Nassella viridula</i>									
<i>Pascopyrum smithii</i>	30	10		2	2		45(4)	29(3)	2
<i>Pascopyrum smithii</i> var. <i>smithii</i>									
<i>Poa agassizensis</i>									
<i>Poa compressa</i>								P	
<i>Poa secunda</i>									
TOTAL NATIVE PERENNIAL GRASSES (c)	30	10	---	2	2	---	45(4)	29(3)	2

Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*								
	----- SAMPLE NUMBER -----								
	21	23	25	27	29	31	33	35	37
INTRODUCED PERENNIAL GRASSES (cool)									
<i>Agropyron cristatum</i>									P
<i>Bromopsis inermis</i>	1								
<i>Dactylis glomerata</i>							P		
<i>Schedonnardus paniculatus</i>						28(2)			1
TOTAL INTRO. PERENNIAL GRASSES (c)	1	---	---	---	---	28(2)	P	---	1
NATIVE PERENNIAL GRASSES (warm)									
<i>Andropogon gerardii</i>									
<i>Aristida purpurea</i>		2		P				P	P
<i>Bouteloua curtipendula</i>									
<i>Buchloe dactyloides</i>		4(1)				9	2	1	
<i>Chondrosum gracile</i>				2					
<i>Chondrosum hirsutum</i>	P								
<i>Distichlis spicata ssp. stricta</i>							P		
<i>Schizachyrium scoparium</i>									
<i>Sporobolus cryptandrus</i>									
TOTAL NATIVE PERENNIAL GRASSES (w)	P	6(1)	---	2	---	9	2	1	P
NATIVE SHRUBS									
<i>Amorpha nana</i>									
<i>Chrysothamnus nauseosus</i>									
<i>Eriogonum effusum</i>									
<i>Rosa sayi</i>									
<i>Symphoricarpos rotundifolius</i>									
<i>Yucca glauca</i>		P							
TOTAL NATIVE SHRUBS	---	P	---	---	---	---	---	---	---
FERNS									
<i>Hippochaete hyemalis ssp. affinis</i>									
TOTAL FERNS	---	---	---	---	---	---	---	---	---
BRYOPHYTES									
Moss									
TOTAL BRYOPHYTES	---	---	---	---	---	---	---	---	---
LICHEN									
Lichen									
TOTAL LICHEN	---	---	---	---	---	---	---	---	---
SUCCULENT									
<i>Coryphantha vivipara var. vivipara</i>									
<i>Echinocereus viridiflorus</i>									
<i>Opuntia fragilis</i>									
<i>Opuntia macrorrhiza</i>									
TOTAL SUCCULENT	---	---	---	---	---	---	---	---	---
MUSHROOMS									
Fungus	P			P				P	
TOTAL MUSHROOMS	P	---	---	P	---	---	---	P	---
Standing dead							2		
Litter	15	11	7	32	18	15	25	34	28
Bare soil	30	18	24	6	18	9	9	12	62
Rock						2		2	4
TOTALS	100	100	100	100	100	100	100	100	100
TOTAL VEGETATION COVER	55(1)	71(4)	69(6)	62(9)	64(3)	74(4)	64(18)	52(3)	6(1)
GROUND COVER (Litter+Rock+Veg+St.Dead)	70(1)	82(4)	76(6)	94(9)	82(3)	91(4)	91(18)	88(3)	38(1)
SPECIES DENSITY (# of species/100 sq.m.) (AVERAGE = 27.7 Std.Dev. = 13.6)	11	28	8	28	14	13	25	19	15

PLANT SPECIES	Percent Foliar Cover*			
	----- SAMPLE NUMBER -----			
	39	41	43	45
NATIVE ANNUAL & BIENNIAL FORBS				
<i>Androsace occidentalis</i>				
<i>Androsace septentrionalis</i>				
<i>Cirsium undulatum</i>			P	
<i>Collinsia parviflora</i>				
<i>Collomia linearis</i>			P	
<i>Cryptantha minima</i>				
<i>Descurainia incana</i>				
<i>Descurainia pinnata</i>				
<i>Draba reptans</i>				
<i>Draba spp.</i>				
<i>Dyssodia papposa</i>				
<i>Erigeron divergens</i>		P		
<i>Erysimum asperum</i>			P	
<i>Frasera speciosa</i>			P	
<i>Grindelia squarrosa</i>			P	P
<i>Hedeoma hispidum</i>				
<i>Helianthus annuus</i>				
<i>Helianthus petiolaris</i>				
<i>Machaeranthera tanacetifolia</i>				
<i>Oligosporus pacificus</i>			1	
<i>Oreocarya virgata</i>			P	
<i>Plantago patagonica</i>				3
<i>Pterogonum alatum</i>			P	
<i>Salvia aethiopis</i>				
<i>Silene antirrhina</i>		P	P	
TOTAL NATIVE ANN. & BIEN. FORBS	---	P	1	3
INTRODUCED ANNUAL & BIENNIAL FORBS				
<i>Acosta diffusa</i>	1	P		2
<i>Alyssum minus</i>	P		3	9
<i>Camelina microcarpa</i>			P	
<i>Cardaria draba</i>				
<i>Carduus nutans ssp. macrolepis</i>	1		P	
<i>Chamaesyce glyptosperma</i>				
<i>Cirsium vulgare</i>				
<i>Cynoglossum officinale</i>				P
<i>Descurainia sophia</i>				
<i>Dipsacus sylvestris</i>				
<i>Erodium cicutarium</i>				9
<i>Lactuca serriola</i>		23(4)		
<i>Lappula redowskii</i>				
<i>Lepidium densiflorum</i>				
<i>Medicago lupulina</i>		P		
<i>Melilotus officinalis</i>	P	P		
<i>Neolepia campestre</i>				
<i>Noccaea montana</i>				
<i>Plantago lanceolata</i>				P
<i>Podospermum laciniatum</i>				
<i>Polygonum ramosissimum</i>				
<i>Sisymbrium altissimum</i>				
<i>Solanum americanum</i>				
<i>Tragopogon dubius ssp. major</i>		P	1	
<i>Verbascum blattaria</i>				P
<i>Verbascum thapsus</i>		15(1)		
TOTAL INTRO. ANN. & BIEN. FORBS	2	38(5)	4	20
NATIVE ANNUAL GRASSES				
<i>Critesion pusillum</i>		P		
<i>Vulpia octoflora</i>			P	
TOTAL NATIVE ANN. GRASSES	---	P	P	---

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PLANT SPECIES	Percent Foliar Cover*			
	----- SAMPLE NUMBER -----			
	39	41	43	45
INTRODUCED ANNUAL GRASSES				
<i>Anisantha tectorum</i>		3	P	P
<i>Bromus japonicus</i>			12	
TOTAL INTRO. ANN. GRASSES	---	3	12	P
NATIVE PERENNIAL FORBS				
<i>Acetosella vulgaris</i>				
<i>Achillea lanulosa</i>			P	
<i>Adenolinum lewisii</i>		2		
<i>Allium textile</i>			P	
<i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>	1	9(3)	P	
<i>Amerosedum lanceolatum</i>			P	
<i>Antennaria corymbosa</i>			P	
<i>Aphyllon fasciculatum</i>			P	
<i>Apocynum cannabinum</i>		1		
<i>Argemone polyanthemus</i>	P			
<i>Arnica fulgens</i>				
<i>Artemisia frigida</i>			P	
<i>Artemisia ludoviciana</i>				
<i>Asclepias pumila</i>		P		
<i>Asclepias speciosa</i>				
<i>Aster porteri</i>				
<i>Astragalus agrestis</i>		P	P	
<i>Astragalus bisulcatus</i>	P			
<i>Astragalus crassicaarpus</i>			P	
<i>Astragalus drummondii</i>	P			
<i>Astragalus shortianus</i>				
<i>Astragalus tridactylus</i>				
<i>Calochortus gunnisonii</i>			P	
<i>Calylophus serrulatus</i>				
<i>Castilleja sessiliflora</i>				
<i>Comandra umbellata</i> ssp. <i>pallida</i>				
<i>Dalea candida</i> var. <i>oligophylla</i>	P			
<i>Dalea purpurea</i>				
<i>Drymocallis fissa</i>			P	P
<i>Eremogone fendleri</i>			P	
<i>Erigeron canus</i>				
<i>Erigeron flagellaris</i>				
<i>Evolvulus nuttalianus</i>				
<i>Gaillardia aristata</i>			P	
<i>Gaura coccinea</i>	P	P		
<i>Glandularia bipinnatifida</i>				
<i>Gutierrezia sarothrae</i>	P		P	P
<i>Helianthus pumilus</i>	2(1)			
<i>Heterotheca fulcrata</i>			P	
<i>Heterotheca villosa</i>	P		P	
<i>Heuchera hallii</i>			3	
<i>Hybanthus verticillatus</i>	P			
<i>Hymenopappus filifolius</i>				
<i>Iris missouriensis</i>				
<i>Lesquerella montana</i>			P	
<i>Leucocrinum montanum</i>			2	
<i>Liatris punctata</i>			P	
<i>Lithospermum ruderae</i>				
<i>Lomatium orientale</i>			1	
<i>Lupinus caudatus</i>			P	
<i>Lygodesmia juncea</i>				
<i>Machaeranthera canescens</i>				
<i>Machaeranthera pinnatifida</i>	P			
<i>Mertensia lanceolata</i>		P	P	
<i>Monarda pectinata</i>				
<i>Musineon divaricatum</i>				
<i>Nothocalais cuspidata</i>				
<i>Oenothera caespitosa</i>				

PLANT SPECIES	Percent Foliar Cover*			
	----- SAMPLE NUMBER -----			
	39	41	43	45
NATIVE PERENNIAL FORBS (concluded)				
<i>Oenothera howardii</i>			P	
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>				
<i>Onosmodium molle</i> ssp. <i>occidentale</i>				
<i>Oxalis dillenii</i>				
<i>Oxybaphus linearis</i>				
<i>Oxybaphus nyctagineus</i>				
<i>Oxytropis x sericea</i>			P	
<i>Packera fendleri</i>				
<i>Packera plattensis</i>				
<i>Paronychia jamesii</i>				
<i>Penstemon secundiflorus</i>	P		P	
<i>Penstemon virens</i>				
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>				
<i>Phyla cuneifolia</i>				28(3)
<i>Picradeniopsis oppositifolia</i>				
<i>Potentilla hippiana</i>				
<i>Psoralea tenuiflora</i>	P	P	1	P
<i>Ratibida columnifera</i>	P		P	
<i>Rumex crispus</i>		4		
<i>Senecio integerrimus</i>				
<i>Senecio spartioides</i>				
<i>Solanum</i> spp.				
<i>Solidago missouriensis</i>				P
<i>Sphaeralcea coccinea</i>	P			
<i>Thelesperma megapotamicum</i>	P			
<i>Tithymalus brachyceras</i>			P	
<i>Townsendia exscapa</i>				
<i>Vicia americana</i>				
<i>Viola nuttallii</i>			P	
<i>Virgulus falcatus</i>			P	1
TOTAL NATIVE PERENNIAL FORBS	3(1)	16(3)	7	29(3)
INTRODUCED PERENNIAL FORBS				
<i>Breia arvensis</i>		11(3)		
<i>Cardaria chalapensis</i>				
<i>Convolvulus arvensis</i>	15	9(4)		16(2)
<i>Hypericum perforatum</i>			P	
<i>Linaria genistifolia</i> ssp. <i>dalmatica</i>				
<i>Lotus tenuis</i>				
<i>Marrubium vulgare</i>		2		
<i>Medicago sativa</i>				
<i>Taraxacum officinale</i>				
<i>Trifolium hybridum</i>				
<i>Verbena bracteata</i>				P
TOTAL INTRO. PERENNIAL FORBS	15	22(7)	P	16(2)
NATIVE PERENNIAL GRASSES (cool)				
<i>Agrostis</i> spp.				
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>			3	
<i>Critetion jubatum</i>				
<i>Dicanthelium oligosanthes</i> var. <i>scribnerianum</i>				
<i>Elymus elymoides</i>				
<i>Elymus lanceolatus</i> fm. <i>albicans</i>			P	
<i>Hesperostipa comata</i>			P	
<i>Juncus arcticus</i> ssp. <i>ater</i>				P
<i>Koeleria macrantha</i>			P	
<i>Nassella viridula</i>			P	
<i>Pascopyrum smithii</i>				
<i>Pascopyrum smithii</i> var. <i>smithii</i>			1	P
<i>Poa agassizensis</i>			16(3)	
<i>Poa compressa</i>				
<i>Poa secunda</i>				
TOTAL NATIVE PERENNIAL GRASSES (c)	---	---	20(3)	P

Table 2. Cover Data – Affected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	Percent Foliar Cover*			
	----- SAMPLE NUMBER -----			
	39	41	43	45
INTRODUCED PERENNIAL GRASSES (cool)				
Agropyron cristatum	3			
Bromopsis inermis	3	P		
Dactylis glomerata				
Schedonnardus paniculatus				
TOTAL INTRO. PERENNIAL GRASSES (c)	6	P	---	---
NATIVE PERENNIAL GRASSES (warm)				
Andropogon gerardii			P	
Aristida purpurea	4			
Bouteloua curtipendula				
Buchloe dactyloides				
Chondrosum gracile				
Chondrosum hirsutum				
Distichlis spicata ssp. stricta				
Schizachyrium scoparium			P	
Sporobolus cryptandrus				
TOTAL NATIVE PERENNIAL GRASSES (w)	4	---	P	---
NATIVE SHRUBS				
Amorpha nana				P
Chrysothamnus nauseosus				
Eriogonum effusum				
Rosa sayi	P		1	1
Symphoricarpos rotundifolius				
Yucca glauca	P			
TOTAL NATIVE SHRUBS	P	---	1	1
FERNS				
Hippochaete hyemalis ssp. affinis				
TOTAL FERNS	---	---	---	---
BRYOPHYTES				
Moss				
TOTAL BRYOPHYTES	---	---	---	---
LICHEN				
Lichen			2	
TOTAL LICHEN	---	---	2	---
SUCCULENT				
Coryphantha vivipara var. vivipara				
Echinocereus viridiflorus				
Opuntia fragilis			P	
Opuntia macrorhiza	P		P	
TOTAL SUCCULENT	P	---	P	---
MUSHROOMS				
Fungus			P	
TOTAL MUSHROOMS	---	---	P	---
Standing dead			2	
Litter	23	15	44	23
Bare soil	38	5	4	8
Rock	9	1	3	
TOTALS	100	100	100	100
TOTAL VEGETATION COVER	30(1)	79(15)	47(3)	69(5)
GROUND COVER (Litter+Rock+Veg+St.Dead)	62(1)	95(15)	96(3)	92(5)
SPECIES DENSITY (# of species/100 sq.m.)	27	23	62	21
(AVERAGE = 27.7 Std.Dev. = 13.6)				

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
NATIVE ANNUAL & BIENNIAL FORBS					
<i>Cirsium undulatum</i>	0.05	54.55	0.08	0.05	0.07
<i>Collomia linearis</i>	0.00	4.55	0.00	0.00	0.00
<i>Descurainia pinnata</i>	0.00	9.09	0.00	0.00	0.00
<i>Draba reptans</i>	0.00	9.09	0.00	0.00	0.00
<i>Dyssodia papposa</i>	0.00	4.55	0.00	0.00	0.00
<i>Erigeron divergens</i>	0.05	13.64	0.08	0.05	0.07
<i>Erysimum asperum</i>	0.00	18.18	0.00	0.00	0.00
<i>Grindelia squarrosa</i>	0.05	45.45	0.08	0.05	0.07
<i>Hedeoma hispidum</i>	0.00	4.55	0.00	0.00	0.00
<i>Helianthus petiolaris</i>	0.05	4.55	0.08	0.05	0.07
<i>Oligosporus pacificus</i>	0.00	22.73	0.00	0.00	0.00
<i>Plantago patagonica</i>	0.05	45.45	0.08	0.09	0.14
<i>Pterogonum alatum</i>	0.09	18.18	0.16	0.09	0.14
<i>Salvia aethiops</i>	0.50	4.55	0.88	0.59	0.91
<i>Silene antirrhina</i>	0.09	13.64	0.16	0.09	0.14
<i>Tithymalus spathulatus</i>	0.05	4.55	0.08	0.05	0.07
TOTAL NATIVE ANN. & BIEN. FORBS	1.0	81.8	1.7	1.1	1.7
INTRODUCED ANNUAL & BIENNIAL FORBS					
<i>Acosta diffusa</i>	2.50	40.91	4.41	2.86	4.43
<i>Alyssum minus</i>	2.00	72.73	3.53	2.45	3.80
<i>Camelina microcarpa</i>	0.00	36.36	0.00	0.00	0.00
<i>Carduus nutans</i> ssp. <i>macrolepis</i>	0.00	27.27	0.00	0.00	0.00
<i>Chamaesyce glyptosperma</i>	0.05	9.09	0.08	0.05	0.07
<i>Crepis capillaris</i>	0.00	4.55	0.00	0.00	0.00
<i>Erodium cicutarium</i>	0.27	40.91	0.48	0.41	0.63
<i>Lactuca serriola</i>	0.05	31.82	0.08	0.05	0.07
<i>Lappula redowskii</i>	0.00	4.55	0.00	0.05	0.07
<i>Lepidium densiflorum</i>	0.00	13.64	0.00	0.00	0.00
<i>Medicago lupulina</i>	0.18	18.18	0.32	0.18	0.28
<i>Melilotus officinalis</i>	0.00	13.64	0.00	0.00	0.00
<i>Neolepia campestre</i>	0.00	4.55	0.00	0.00	0.00
<i>Noccaea montana</i>	0.00	13.64	0.00	0.00	0.00
<i>Plantago lanceolata</i>	0.32	22.73	0.56	0.36	0.56
<i>Podospermum laciniatum</i>	0.09	50.00	0.16	0.09	0.14
<i>Sisymbrium altissimum</i>	0.00	31.82	0.00	0.00	0.00
<i>Tragopogon dubius</i> ssp. <i>major</i>	0.45	72.73	0.80	0.59	0.91
<i>Turritis glabra</i>	0.00	4.55	0.00	0.00	0.00
<i>Verbascum blattaria</i>	0.09	4.55	0.16	0.23	0.35
<i>Verbascum phlomoides</i>	0.00	4.55	0.00	0.00	0.00
<i>Verbascum thapsus</i>	1.50	9.09	2.64	1.86	2.88
TOTAL INTRO. ANN. & BIEN. FORBS	7.5	100.0	13.2	9.2	14.2
NATIVE ANNUAL GRASSES					
<i>Vulpia octoflora</i>	0.18	27.27	0.32	0.23	0.35
TOTAL NATIVE ANN. GRASSES	0.2	27.3	0.3	0.2	0.4
INTRODUCED ANNUAL GRASSES					
<i>Anisantha tectorum</i>	5.27	59.09	9.29	6.09	9.42
<i>Bromus japonicus</i>	2.32	59.09	4.09	2.36	3.66
<i>Cylindropyrum cylindricum</i>	0.00	4.55	0.00	0.00	0.00
TOTAL INTRO. ANN. GRASSES	7.6	81.8	13.4	8.5	13.1
NATIVE PERENNIAL FORBS					
<i>Achillea lanulosa</i>	0.09	9.09	0.16	0.09	0.14
<i>Adenolinum lewisii</i>	0.00	13.64	0.00	0.05	0.07
<i>Agoseris glauca</i>	0.05	4.55	0.08	0.05	0.07
<i>Allium textile</i>	0.00	9.09	0.00	0.00	0.00
<i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>	0.77	50.00	1.36	0.86	1.34
<i>Antennaria</i> spp.	0.00	9.09	0.00	0.00	0.00
<i>Aphyllon fasciculatum</i>	0.00	13.64	0.00	0.00	0.00
<i>Argemone polyanthemus</i>	0.00	4.55	0.00	0.00	0.00
<i>Arnica fulgens</i>	0.09	13.64	0.16	0.09	0.14
<i>Artemisia frigida</i>	0.32	68.18	0.56	0.32	0.49

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997 Page 2 of 16

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
NATIVE PERENNIAL FORBS (continued)					
<i>Artemisia ludoviciana</i>	0.14	40.91	0.24	0.14	0.21
<i>Asclepias viridiflora</i>	0.00	9.09	0.00	0.00	0.00
<i>Aster porteri</i>	0.14	9.09	0.24	0.14	0.21
<i>Astragalus agrestis</i>	0.00	13.64	0.00	0.00	0.00
<i>Astragalus bisulcatus</i>	0.00	4.55	0.00	0.00	0.00
<i>Astragalus crassicaupus</i>	0.00	22.73	0.00	0.00	0.00
<i>Astragalus drummondii</i>	0.00	9.09	0.00	0.00	0.00
<i>Astragalus flexuosus</i>	0.05	4.55	0.08	0.05	0.07
<i>Astragalus miser</i> var. <i>oblongifolius</i>	0.05	4.55	0.08	0.05	0.07
<i>Astragalus shortianus</i>	0.00	4.55	0.00	0.00	0.00
<i>Astragalus tridactylus</i>	0.00	4.55	0.00	0.00	0.00
<i>Calochortus gunnisonii</i>	0.00	4.55	0.00	0.00	0.00
<i>Calylophus serrulatus</i>	0.05	9.09	0.08	0.05	0.07
<i>Castilleja sessiliflora</i>	0.00	4.55	0.00	0.05	0.07
<i>Comandra umbellata</i> ssp. <i>pallida</i>	0.00	13.64	0.00	0.00	0.00
<i>Dalea candida</i> var. <i>oligophylla</i>	0.00	9.09	0.00	0.00	0.00
<i>Dalea purpurea</i>	0.00	22.73	0.00	0.00	0.00
<i>Delphinium ramosum</i>	0.00	4.55	0.00	0.00	0.00
<i>Drymocallis fissa</i>	0.05	13.64	0.08	0.05	0.07
<i>Eremogone fendleri</i>	0.00	4.55	0.00	0.00	0.00
<i>Erigeron canus</i>	0.00	4.55	0.00	0.00	0.00
<i>Erigeron flagellaris</i>	0.27	45.45	0.48	0.32	0.49
<i>Evolvulus nuttalianus</i>	0.00	9.09	0.00	0.00	0.00
<i>Gaillardia aristata</i>	0.00	9.09	0.00	0.00	0.00
<i>Gastrolychnis drummondii</i>	0.00	4.55	0.00	0.00	0.00
<i>Gaura coccinea</i>	0.09	63.64	0.16	0.09	0.14
<i>Glandularia bipinnatifida</i>	0.00	4.55	0.00	0.00	0.00
<i>Gutierrezia sarothrae</i>	1.36	68.18	2.40	1.45	2.25
<i>Hedysarum boreale</i>	0.00	4.55	0.00	0.00	0.00
<i>Helianthus pumilus</i>	0.14	13.64	0.24	0.18	0.28
<i>Heterotheca fulcrata</i>	0.05	18.18	0.08	0.05	0.07
<i>Heterotheca villosa</i>	0.41	50.00	0.72	0.45	0.70
<i>Hybanthus verticillatus</i>	0.09	4.55	0.16	0.09	0.14
<i>Hymenopappus filifolius</i>	0.00	4.55	0.00	0.00	0.00
<i>Ipomopsis spicata</i>	0.00	4.55	0.00	0.00	0.00
<i>Lesquerella montana</i>	0.00	27.27	0.00	0.00	0.00
<i>Leucocrinum montanum</i>	0.00	31.82	0.00	0.00	0.00
<i>Liatris punctata</i>	0.18	40.91	0.32	0.18	0.28
<i>Lithospermum ruderae</i>	0.00	4.55	0.00	0.00	0.00
<i>Lomatium orientale</i>	0.00	27.27	0.00	0.00	0.00
<i>Lygodesmia juncea</i>	0.00	13.64	0.00	0.00	0.00
<i>Machaeranthera canescens</i>	0.00	9.09	0.00	0.00	0.00
<i>Machaeranthera pinnatifida</i>	0.00	9.09	0.00	0.00	0.00
<i>Mertensia lanceolata</i>	0.00	18.18	0.00	0.00	0.00
<i>Musineon divaricatum</i>	0.00	22.73	0.00	0.00	0.00
<i>Nothocalais cuspidata</i>	0.00	13.64	0.00	0.00	0.00
<i>Oenothera howardii</i>	0.05	22.73	0.08	0.05	0.07
<i>Oligosporus dracuncululus</i> ssp. <i>glaucus</i>	0.32	31.82	0.56	0.32	0.49
<i>Onosmodium molle</i> ssp. <i>occidentale</i>	0.00	4.55	0.00	0.00	0.00
<i>Oxalis dillenii</i>	0.00	4.55	0.00	0.00	0.00
<i>Oxybaphus linearis</i>	0.00	13.64	0.00	0.00	0.00
<i>Oxybaphus nyctagineus</i>	0.00	9.09	0.00	0.00	0.00
<i>Oxytropis x sericea</i>	0.18	31.82	0.32	0.18	0.28
<i>Penstemon secundiflorus</i>	0.00	4.55	0.00	0.00	0.00
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>	0.00	4.55	0.00	0.00	0.00
<i>Phacelia hastata</i>	0.00	4.55	0.00	0.00	0.00
<i>Phlox longifolia</i>	0.00	4.55	0.00	0.00	0.00
<i>Physalis heterophylla</i>	0.00	4.55	0.00	0.00	0.00
<i>Psoralea tenuiflorum</i>	1.82	72.73	3.21	1.95	3.02
<i>Ratibida columnifera</i>	0.18	36.36	0.32	0.18	0.28
<i>Rumex crispus</i>	0.00	4.55	0.00	0.00	0.00
<i>Scutellaria brittonii</i>	0.00	4.55	0.00	0.00	0.00
<i>Senecio integerrimus</i>	0.00	9.09	0.00	0.00	0.00
<i>Senecio spartioides</i>	0.00	13.64	0.00	0.00	0.00

Table 3. Cover Data — Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997 Page 3 of 16

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER—ALL (%)	RELATIVE VEGETATION COVER—ALL (%)
NATIVE PERENNIAL FORBS (concluded)					
<i>Solidago simplex</i> var. <i>nana</i>	0.05	4.55	0.08	0.05	0.07
<i>Solidago speciosus</i>	0.05	4.55	0.08	0.05	0.07
<i>Solidago</i> spp.	0.09	4.55	0.16	0.14	0.21
<i>Sphaeralcea coccinea</i>	0.00	31.82	0.00	0.00	0.00
<i>Thelesperma megapotamicum</i>	0.05	13.64	0.08	0.05	0.07
<i>Tithymalus brachyceras</i>	0.00	4.55	0.00	0.00	0.00
<i>Townsendia exscapa</i>	0.00	4.55	0.00	0.00	0.00
<i>Tradescantia occidentalis</i>	0.00	4.55	0.00	0.00	0.00
<i>Vicia americana</i>	0.00	9.09	0.00	0.00	0.00
<i>Viola nuttallii</i>	0.00	40.91	0.00	0.00	0.00
<i>Virgulus falcatus</i>	0.91	72.73	1.60	0.95	1.48
TOTAL NATIVE PERENNIAL FORBS	8.0	95.5	14.2	8.7	13.4
INTRODUCED PERENNIAL FORBS					
<i>Arabis hirsuta</i>	0.00	4.55	0.00	0.00	0.00
<i>Cardaria chalapensis</i>	0.23	9.09	0.40	0.23	0.35
<i>Cichorium intybus</i>	0.00	4.55	0.00	0.00	0.00
<i>Convolvulus arvensis</i>	4.09	68.18	7.21	5.27	8.16
<i>Hypericum perforatum</i>	0.00	9.09	0.00	0.00	0.00
<i>Medicago sativa</i>	0.00	4.55	0.00	0.00	0.00
<i>Taraxacum officinale</i>	0.05	54.55	0.08	0.05	0.07
<i>Trifolium pratense</i>	0.00	4.55	0.00	0.00	0.00
<i>Verbena bracteata</i>	0.00	9.09	0.00	0.00	0.00
TOTAL INTRO. PERENNIAL FORBS	4.4	86.4	7.7	5.5	8.6
NATIVE PERENNIAL GRASSES (cool)					
<i>Carex foenea</i>	0.05	4.55	0.08	0.05	0.07
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>	1.50	50.00	2.64	1.95	3.02
<i>Carex praegracilis</i>	0.00	4.55	0.00	0.00	0.00
<i>Carex</i> spp.	0.64	4.55	1.12	0.64	0.98
<i>Critesion brachyantherum</i>	0.00	4.55	0.00	0.00	0.00
<i>Critesion jubatum</i>	0.14	13.64	0.24	0.14	0.21
<i>Elymus longifolius</i>	0.14	13.64	0.24	0.14	0.21
<i>Hesperostipa comata</i>	1.91	40.91	3.37	2.18	3.38
<i>Koeleria macrantha</i>	0.55	45.45	0.96	0.55	0.84
<i>Nassella viridula</i>	0.05	22.73	0.08	0.05	0.07
<i>Pascopyrum smithii</i>	6.82	86.36	12.02	7.45	11.53
<i>Poa agassizensis</i>	4.50	59.09	7.93	4.77	7.38
<i>Poa compressa</i>	0.86	45.45	1.52	0.95	1.48
<i>Poa secunda</i>	0.00	9.09	0.00	0.00	0.00
TOTAL NATIVE PERENNIAL GRASSES (c)	17.1	100.0	30.2	18.9	29.2
INTRODUCED PERENNIAL GRASSES (cool)					
<i>Agropyron cristatum</i>	1.73	9.09	3.04	1.77	2.74
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>	0.05	4.55	0.08	0.05	0.07
<i>Agrostis gigantea</i>	0.00	4.55	0.00	0.00	0.00
<i>Bromopsis inermis</i>	0.73	27.27	1.28	0.73	1.13
<i>Dactylis glomerata</i>	0.18	13.64	0.32	0.18	0.28
<i>Elytrigia repens</i>	0.00	4.55	0.00	0.00	0.00
<i>Festuca pratensis</i>	0.00	4.55	0.00	0.00	0.00
<i>Juncus effusus</i>	0.23	4.55	0.40	0.23	0.35
<i>Phleum pratense</i>	0.05	4.55	0.08	0.05	0.07
<i>Schedonnardus paniculatus</i>	0.00	9.09	0.00	0.00	0.00
<i>Thinopyrum intermedium</i>	0.05	4.55	0.08	0.05	0.07
TOTAL INTRO. PERENNIAL GRASSES (c)	3.0	50.0	5.3	3.0	4.7

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997 Page 4 of 16

PLANT SPECIES	AVERAGE COVER (%)	FREQUENCY (%)	RELATIVE VEGETATION COVER (%)	AVERAGE COVER-ALL (%)	RELATIVE VEGETATION COVER-ALL (%)
NATIVE PERENNIAL GRASSES (warm)					
<i>Andropogon gerardii</i>	1.55	36.36	2.72	1.82	2.81
<i>Aristida purpurea</i>	0.36	36.36	0.64	0.36	0.56
<i>Bouteloua curtipendula</i>	0.41	31.82	0.72	0.45	0.70
<i>Buchloe dactyloides</i>	0.64	31.82	1.12	0.68	1.05
<i>Calamovilfa longifolia</i>	0.00	9.09	0.00	0.00	0.00
<i>Chondrosium gracile</i>	2.64	45.45	4.65	3.45	5.34
<i>Chondrosium hirsutum</i>	0.00	9.09	0.00	0.00	0.00
<i>Distichlis spicata</i> ssp. <i>stricta</i>	0.00	4.55	0.00	0.00	0.00
<i>Panicum virgatum</i>	0.00	4.55	0.00	0.00	0.00
<i>Schizachyrium scoparium</i>	0.09	13.64	0.16	0.14	0.21
<i>Sporobolus cryptandrus</i>	0.36	18.18	0.64	0.45	0.70
<i>Sporobolus heterolepis</i>	0.00	4.55	0.00	0.00	0.00
TOTAL NATIVE PERENNIAL GRASSES (w)	6.0	90.9	10.7	7.4	11.4
NATIVE SHRUBS					
<i>Amorpha nana</i>	0.00	4.55	0.00	0.00	0.00
<i>Chrysothamnus nauseosus</i>	0.18	13.64	0.32	0.18	0.28
<i>Crataegus rivularis</i>	0.00	4.55	0.00	0.00	0.00
<i>Eriogonum effusum</i>	0.09	4.55	0.16	0.09	0.14
<i>Rosa sayi</i>	0.82	36.36	1.44	0.95	1.48
<i>Yucca glauca</i>	0.68	36.36	1.20	0.73	1.13
TOTAL NATIVE SHRUBS	1.8	63.6	3.1	2.0	3.0
INTRODUCED TREES					
<i>Ulmus pumila</i>	0.05	4.55	0.08	0.05	0.07
TOTAL INTRODUCED TREES	0.0	4.5	0.1	0.0	0.1
FERNS					
<i>Hippochaete laevigata</i>	0.00	4.55	0.00	0.00	0.00
TOTAL FERNS	0.0	4.5	0.0	0.0	0.0
LICHEN					
<i>Parmelia chlorocroa</i>	0.05	4.55	0.08	0.09	0.14
TOTAL LICHEN	0.0	4.5	0.1	0.1	0.1
SUCCULENT					
<i>Coryphantha vivipara</i> var. <i>vivipara</i>	0.00	9.09	0.00	0.00	0.00
<i>Echinocereus viridiflorus</i>	0.05	22.73	0.08	0.05	0.07
<i>Opuntia fragilis</i>	0.00	36.36	0.00	0.00	0.00
<i>Opuntia macrorhiza</i>	0.00	54.55	0.00	0.05	0.07
<i>Opuntia polyacantha</i>	0.00	4.55	0.00	0.00	0.00
TOTAL SUCCULENT	0.0	59.1	0.1	0.1	0.1
MUSHROOMS					
Fungus	0.00	9.09	0.00	0.00	0.00
TOTAL MUSHROOMS	0.0	9.1	0.0	0.0	0.0
Standing dead	2.64	81.82		2.82	
Litter	31.55	100.00		31.55	
Bare soil	8.27	86.36		8.27	
Rock	0.82	45.45		0.82	
TOTALS	100.0			108.1	
TOTAL VEGETATION COVER	56.7 (s=15.2)		100.0	64.6 (s=21.8)	100.0
GROUND COVER (Litter+Rock+Veg+St.Dead)	91.7			99.8	
SPECIES DENSITY (# of species/100 sq.m.)					
(AVERAGE= 35.3 Std.Dev.= 14.0)					

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997 Page 5 of 16

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	2	4	6	8	10	14	16	18	20	22
NATIVE ANNUAL & BIENNIAL FORBS										
<i>Cirsium undulatum</i>	P	P		P		P	P	P	1	
<i>Collomia linearis</i>										
<i>Descurainia pinnata</i>										
<i>Draba reptans</i>										
<i>Dyssodia papposa</i>										
<i>Erigeron divergens</i>		1								
<i>Erysimum asperum</i>				P						
<i>Grindelia squarrosa</i>	1	P				P			P	
<i>Hedeoma hispidum</i>										
<i>Helianthus petiolaris</i>								1		
<i>Oligosporus pacificus</i>		P				P	P			
<i>Plantago patagonica</i>	1	P		P		P		P		
<i>Pterogonum alatum</i>		P					P			
<i>Salvia aethiopis</i>										2
<i>Silene antirrhina</i>		1				1				
<i>Tithymalus spathulatus</i>										
TOTAL NATIVE ANN. & BIEN. FORBS	2	2	---	P	---	1	P	1	1	2
INTRODUCED ANNUAL & BIENNIAL FORBS										
<i>Acosta diffusa</i>	2		33(8)		6				4	
<i>Alyssum minus</i>	3	1		4	P	9	P	3(2)	P	
<i>Camelina microcarpa</i>		P		P			P	P		
<i>Carduus nutans</i> ssp. <i>macrolepis</i>	P				P					
<i>Chamaesyce glyptosperma</i>										
<i>Crepis capillaris</i>										
<i>Erodium cicutarium</i>					P	P		P		
<i>Lactuca serriola</i>					P	P	P			
<i>Lappula redowskii</i>										
<i>Lepidium densiflorum</i>						P				
<i>Medicago lupulina</i>					P				3	
<i>Melilotus officinalis</i>										P
<i>Neolepia campestre</i>		P								
<i>Noccaea montana</i>									P	
<i>Plantago lanceolata</i>			1		1	P				
<i>Podospermum laciniatum</i>	P	1		1	P		P	P	P	
<i>Sisymbrium altissimum</i>			P			P		P		
<i>Tragopogon dubius</i> ssp. <i>major</i>	P	P	P	4(1)		P	2	P	1	P
<i>Turritis glabra</i>	P									
<i>Verbascum blattaria</i>			2(3)							
<i>Verbascum phlomoides</i>										
<i>Verbascum thapsus</i>			P							
TOTAL INTRO. ANN. & BIEN. FORBS	5	2	36(11)	9(1)	7	9	2	3(2)	8	P
NATIVE ANNUAL GRASSES										
<i>Vulpia octoflora</i>	1									
TOTAL NATIVE ANN. GRASSES	1	---	---	---	---	---	---	---	---	---
INTRODUCED ANNUAL GRASSES										
<i>Anisantha tectorum</i>		18	10		6	5		10(1)		
<i>Bromus japonicus</i>	2		6	1		2	5			
<i>Cylindropyrum cylindricum</i>			P							
TOTAL INTRO. ANN. GRASSES	2	18	16	1	6	7	5	10(1)	---	---
NATIVE PERENNIAL FORBS										
<i>Achillea lanulosa</i>	P									
<i>Adenolinum lewisii</i>					P			(1)		
<i>Agoseris glauca</i>										
<i>Allium textile</i>	P									
<i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>		3	P	P	2	8(2)	2	2	P	
<i>Antennaria</i> spp.	P									
<i>Aphyllon fasciculatum</i>						P		P		
<i>Argemone polyanthemum</i>										
<i>Arnica fulgens</i>	P	P								
<i>Artemisia frigida</i>	P	1		P	P	P	P	1		

Table 3. Cover Data — Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997 Page 6 of 16

PLANT SPECIES	Percent Foliar Cover*										
	----- SAMPLE NUMBER -----										
	2	4	6	8	10	14	16	18	20	22	
NATIVE PERENNIAL FORBS (continued)											
Artemisia ludoviciana	P		P		P		1	P			
Asclepias viridiflora						P		P			
Aster porteri		3					P				
Astragalus agrestis					P		P				
Astragalus bisulcatus											
Astragalus crassicaupus					P		P	P			
Astragalus drummondii											
Astragalus flexuosus											
Astragalus miser var. oblongifolius											
Astragalus shortianus										P	
Astragalus tridactylicus											
Calochortus gunnisonii											
Calylophus serrulatus							P	1			
Castilleja sessiliflora						(1)					
Comandra umbellata ssp. pallida	P										
Dalea candida var. oligophylla											
Dalea purpurea	P			P			P				
Delphinium ramosum							P				
Drymocallis fissa	P		P								
Eremogone fendleri											
Erigeron canus											
Erigeron flagellaris	2			P	2	P	2(1)	P			
Evolvulus nuttalianus											
Gaillardia aristata	P					P					
Gastrolychnis drummondii											
Gaura coccinea	P	P		P	1	P	P	P	P		
Glandularia bipinnatifida											
Gutierrezia sarothrae	1			P	2	1	3(1)	8	6		
Hedysarum boreale											
Helianthus pumilus						2					
Heterotheca fulcrata						P	P	1			
Heterotheca villosa				3	P	P	3	P	P		
Hybanthus verticillatus											
Hymenopappus filifolius											
Ipomopsis spicata											
Lesquerella montana	P			P			P				
Leucocrinum montanum				P	P	P	P				
Liatris punctata	2	P		2		P	P				
Lithospermum ruderales					P						
Lomatium orientale		P		P							
Lygodesmia juncea											
Machaeranthera canescens											
Machaeranthera pinnatifida											
Mertensia lanceolata							P				
Musineon divaricatum	P			P			P				
Nothocalais cuspidata	P						P				
Oenothera howardii							P		P		
Oligosporus dracunculus ssp. glaucus	P							P			
Onosmodium molle ssp. occidentale					P						
Oxalis dillenii											
Oxybaphus linearis				P				P			
Oxybaphus nyctagineus			P								
Oxytropis x sericea				P	P		P				
Penstemon secundiflorus						P					
Penstemon virgatus ssp. asa-grayi											
Phacelia hastata											
Phlox longifolia											
Physalis heterophylla											
Psoraleidium tenuiflorum	4(2)	P		3	1	12(1)	2	3	2		
Ratibida columnifera	1	1		P	P	P	2				
Rumex crispus			P								
Scutellaria brittonii											
Senecio integerrimus	P										
Senecio spartioides						P		P			

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	2	4	6	8	10	14	16	18	20	22
NATIVE PERENNIAL FORBS (concluded)										
<i>Solidago simplex</i> var. <i>nana</i>										
<i>Solidago speciosus</i>										
<i>Solidago</i> spp.			2(1)							
<i>Sphaeralcea coccinea</i>	P	P					P			
<i>Thelesperma megapotamicum</i>						1	P			
<i>Tithymalus brachyceras</i>										
<i>Townsendia exscapa</i>				P						
<i>Tradescantia occidentalis</i>		P								
<i>Vicia americana</i>	P						P			
<i>Viola nuttallii</i>		P		P	P	P	P	P		
<i>Virgulus falcatus</i>	4	2	P	P	1	P	2	1	P	
TOTAL NATIVE PERENNIAL FORBS	14(2)	10	2(1)	8	9	24(4)	17(2)	17(1)	8	---
INTRODUCED PERENNIAL FORBS										
<i>Arabis hirsuta</i>	P									
<i>Cardaria chalapensis</i>			4							1
<i>Cichorium intybus</i>										
<i>Convolvulus arvensis</i>			22(15)			(2)		2	1	2
<i>Hypericum perforatum</i>							P			
<i>Medicago sativa</i>			P							
<i>Taraxacum officinale</i>	P	P	P			P	P	P	P	
<i>Trifolium pratense</i>										
<i>Verbena bracteata</i>										
TOTAL INTRO. PERENNIAL FORBS	P	P	26(15)	---	---	(2)	P	2	1	3
NATIVE PERENNIAL GRASSES (cool)										
<i>Carex foenea</i>										
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>	4(1)	1		(3)	1	1	P			
<i>Carex praegracilis</i>										
<i>Carex</i> spp.										14
<i>Critesion brachyantherum</i>										
<i>Critesion jubatum</i>					P			1		
<i>Elymus longifolius</i>										
<i>Hesperostipa comata</i>				10	P	4(3)	P	P		
<i>Koeleria macrantha</i>	4	P		4		P	P	P		
<i>Nassella viridula</i>	P	P							P	
<i>Pascopyrum smithii</i>	5(1)	9(1)	P	P	5		P	1	3	12
<i>Poa agassizensis</i>		3	6		9(1)		1	P		22
<i>Poa compressa</i>	1	1			P	1	8			
<i>Poa secunda</i>	P									
TOTAL NATIVE PERENNIAL GRASSES (c)	14(2)	14(1)	6	14(3)	15(1)	6(3)	9	2	3	48
INTRODUCED PERENNIAL GRASSES (cool)										
<i>Agropyron cristatum</i>										
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>										
<i>Agrostis gigantea</i>										
<i>Bromopsis inermis</i>			P						12	1
<i>Dactylis glomerata</i>									4	
<i>Elytrigia repens</i>			P							
<i>Festuca pratensis</i>										
<i>Juncus effusus</i>										
<i>Phleum pratense</i>						1				
<i>Schedonnardus paniculatus</i>										
<i>Thinopyrum intermedium</i>									1	
TOTAL INTRO. PERENNIAL GRASSES (c)	---	---	P	---	---	1	---	---	17	1

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997 Page 8 of 16

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	2	4	6	8	10	14	16	18	20	22
NATIVE PERENNIAL GRASSES (warm)										
Andropogon gerardii		1		1	2(1)	6(2)	6	16(2)		
Aristida purpurea				P	P		P	2	3	
Bouteloua curtipendula				3	1		1	P		
Buchloe dactyloides				3		1	1			
Calamovilfa longifolia		P							P	
Chondrosum gracile	19(2)	P		3		9(7)		3		
Chondrosum hirsutum										
Distichlis spicata ssp. stricta										P
Panicum virgatum									P	
Schizachyrium scoparium					1			P		
Sporobolus cryptandrus									P	
Sporobolus heterolepis	P									
TOTAL NATIVE PERENNIAL GRASSES (w)	19(2)	1	---	10	4(1)	16(9)	8	21(2)	3	P
NATIVE SHRUBS										
Amorpha nana					P					
Chrysothamnus nauseosus										
Crataegus rivularis										
Eriogonum effusum										
Rosa sayi	P		4(2)		P		1	4	3	
Yucca glauca						P	P	1(1)	P	
TOTAL NATIVE SHRUBS	P	---	4(2)	---	P	P	1	5(1)	3	---
INTRODUCED TREES										
Ulmus pumila										
TOTAL INTRODUCED TREES	---	---	---	---	---	---	---	---	---	---
FERNS										
Hippochaete laevigata			P							
TOTAL FERNS	---	---	P	---	---	---	---	---	---	---
LICHEN										
Parmelia chlorocroa										
TOTAL LICHEN	---	---	---	---	---	---	---	---	---	---
SUCCULENT										
Coryphantha vivipara var. vivipara	P						P			
Echinocereus viridiflorus				P		1				
Opuntia fragilis	P			P		P	P			
Opuntia macrorhiza	P	P	P	P	(1)	P	P			
Opuntia polyacantha										
TOTAL SUCCULENT	P	P	P	P	(1)	1	P	---	---	---
MUSHROOMS										
Fungus		P								
TOTAL MUSHROOMS	---	P	---	---	---	---	---	---	---	---
Standing dead	6(1)	1		6(1)	1	5	4	3	3	1
Litter	25	47	10	50	52	21	47	25	30	42
Bare soil	12	5		2	4	8	7	8	22	3
Rock					2	1		3	1	
TOTALS	100	100	100	100	100	100	100	100	100	100
TOTAL VEGETATION COVER	57(6)	47(1)	90(29)	42(4)	41(3)	65(18)	42(2)	61(7)	44	54
GROUND COVER (Litter+Rock+Veg+St.Dead)	88(7)	95(1)	100(29)	98(5)	96(3)	92(18)	93(2)	92(7)	78	97
SPECIES DENSITY (# of species/100 sq.m.)	49	38	27	39	40	49	55	43	29	10
(AVERAGE= 35.3 Std.Dev.= 14.0)										

*P=Present within 1 m. on either side of the cover transect, but not quantitatively encountered.

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997 Page 9 of 16

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	24	26	28	30	32	34	36	38	40	
NATIVE ANNUAL & BIENNIAL FORBS										
<i>Cirsium undulatum</i>	P	P			P			P		
<i>Collomia linearis</i>										
<i>Descurainia pinnata</i>		P	P							
<i>Draba reptans</i>			P	P						
<i>Dyssodia papposa</i>								P		
<i>Erigeron divergens</i>										
<i>Erysimum asperum</i>	P	P								
<i>Grindelia squarrosa</i>				P	P	P		P		
<i>Hedeoma hispidum</i>							P			
<i>Helianthus petiolaris</i>										
<i>Oligosporus pacificus</i>	P									
<i>Plantago patagonica</i>	P			P	P			P		
<i>Pterogonum alatum</i>										
<i>Salvia aethiopis</i>								11(2)		
<i>Silene antirrhina</i>										
<i>Tithymalus spathulatus</i>								1		
TOTAL NATIVE ANN. & BIEN. FORBS	P	P	P	P	P	P	P	12(2)	---	
INTRODUCED ANNUAL & BIENNIAL FORBS										
<i>Acosta diffusa</i>	P							P	P	
<i>Alyssum minus</i>		2	1	2		3(1)		9(2)		
<i>Camelina microcarpa</i>			P	P	P					
<i>Carduus nutans</i> ssp. <i>macrolepis</i>		P		P		P				
<i>Chamaesyce glyptosperma</i>		1	P							
<i>Crepis capillaris</i>										
<i>Erodium cicutarium</i>		P			5(3)	P	P	P		
<i>Lactuca serriola</i>		P	P	1				P		
<i>Lappula redowskii</i>			(1)							
<i>Lepidium densiflorum</i>	P			P						
<i>Medicago lupulina</i>						1				
<i>Melilotus officinalis</i>		P								
<i>Neolepia campestre</i>										
<i>Noccaea montana</i>					P					
<i>Plantago lanceolata</i>					5(1)					
<i>Podospermum laciniatum</i>	P			P				P		
<i>Sisymbrium altissimum</i>		P	P		P					
<i>Tragopogon dubius</i> ssp. <i>major</i>	P		1(2)	2		P			P	
<i>Turritis glabra</i>										
<i>Verbascum blattaria</i>										
<i>Verbascum phlomoides</i>										
<i>Verbascum thapsus</i>										
TOTAL INTRO. ANN. & BIEN. FORBS	P	3	2(3)	5	10(4)	4(1)	P	9(2)	P	
NATIVE ANNUAL GRASSES										
<i>Vulpia octoflora</i>	P		P	1	2(1)					
TOTAL NATIVE ANN. GRASSES	P	---	P	1	2(1)	---	---	---	---	
INTRODUCED ANNUAL GRASSES										
<i>Anisantha tectorum</i>	5(1)		2	4(2)	2		5	2		
<i>Bromus japonicus</i>			3	6		4	2	2		
<i>Cylindropyrum cylindricum</i>										
TOTAL INTRO. ANN. GRASSES	5(1)	---	5	10(2)	2	4	7	4	---	
NATIVE PERENNIAL FORBS										
<i>Achillea lanulosa</i>										
<i>Adenolinum lewisii</i>								P		
<i>Agoseris glauca</i>			1							
<i>Allium textile</i>				P						
<i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>										
<i>Antennaria</i> spp.			P							
<i>Aphyllon fasciculatum</i>								P		
<i>Argemone polyanthemus</i>				P						
<i>Arnica fulgens</i>										
<i>Artemisia frigida</i>	P	P	3	1			P	1	P	

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997 Page 10 of 16

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	24	26	28	30	32	34	36	38	40	
NATIVE PERENNIAL FORBS (continued)										
Artemisia ludoviciana		1						P	P	
Asclepias viridiflora										
Aster porteri										
Astragalus agrestis										
Astragalus bisulcatus									P	
Astragalus crassicaupus	P								P	
Astragalus drummondii								P	P	
Astragalus flexuosus										
Astragalus miser var. oblongifolius								1		
Astragalus shortianus										
Astragalus tridactylus			P							
Calochortus gunnisonii										
Calylophus serrulatus										
Castilleja sessiliflora										
Comandra umbellata ssp. pallida		P								
Dalea candida var. oligophylla								P	P	
Dalea purpurea		P	P							
Delphinium ramosum										
Drymocallis fissa										
Eremogone fendleri										
Erigeron canus	P									
Erigeron flagellaris			P		P	P		P		
Evolvulus nuttallianus			P						P	
Gaillardia aristata										
Gastrolychnis drummondii										
Gaura coccinea	1	P		P				P	P	
Glandularia bipinnatifida								P		
Gutierrezia sarothrae	P	2	3(1)	P				3	1	
Hedysarum boreale									P	
Helianthus pumilus		1(1)							P	
Heterotheca fulcrata										
Heterotheca villosa	2(1)		1					P		
Hybanthus verticillatus								2		
Hymenopappus filifolius									P	
Ipomopsis spicata									P	
Lesquerella montana	P								P	
Leucocrinum montanum	P		P							
Liatris punctata		P	P						P	
Lithospermum ruderae										
Lomatium orientale			P	P				P	P	
Lygodesmia juncea	P		P	P						
Machaeranthera canescens	P	P								
Machaeranthera pinnatifida	P		P							
Mertensia lanceolata			P					P	P	
Musineon divaricatum								P		
Nothocalais cuspidata										
Oenothera howardii	P	1							P	
Oligosporus dracunculus ssp. glaucus	P	1	3	3						
Onosmodium molle ssp. occidentale										
Oxalis dillenii										
Oxybaphus linearis		P								
Oxybaphus nyctagineus										
Oxytropis x. sericea	4		P						P	
Penstemon secundiflorus										
Penstemon virgatus ssp. asa-grayi										
Phacelia hastata										
Phlox longifolia										
Physalis heterophylla			P							
Psoralidium tenuiflorum	7	3	P	P				P	P	
Ratibida columnifera								P		
Rumex crispus										
Scutellaria brittonii			P							
Senecio integerrimus										
Senecio spartioides			P							

Table 3. Cover Data — Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO — June 1997 Page 11 of 16

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	24	26	28	30	32	34	36	38	40	
NATIVE PERENNIAL FORBS (concluded)										
<i>Solidago simplex</i> var. <i>nana</i>								1		
<i>Solidago speciosus</i>										
<i>Solidago</i> spp.										
<i>Sphaeralcea coccinea</i>	P		P	P				P		
<i>Thelesperma megapotamicum</i>			P							
<i>Tithymalus brachyceras</i>										
<i>Townsendia exscapa</i>										
<i>Tradescantia occidentalis</i>										
<i>Vicia americana</i>										
<i>Viola nuttallii</i>			P					P		
<i>Virgulus falcatus</i>			1			P	P	(1)		
TOTAL NATIVE PERENNIAL FORBS	14(1)	9(1)	12(1)	4	P	P	P	8(1)	1	
INTRODUCED PERENNIAL FORBS										
<i>Arabis hirsuta</i>										
<i>Cardaria chalapensis</i>										
<i>Cichorium intybus</i>										
<i>Convolvulus arvensis</i>		5(1)	(1)		2	17(2)	2(1)	(1)	6	
<i>Hypericum perforatum</i>										
<i>Medicago sativa</i>										
<i>Taraxacum officinale</i>				P	1			P		
<i>Trifolium pratense</i>										
<i>Verbena bracteata</i>										
TOTAL INTRO. PERENNIAL FORBS	---	5(1)	(1)	P	3	17(2)	2(1)	(1)	6	
NATIVE PERENNIAL GRASSES (cool)										
<i>Carex foenea</i>					1					
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>	13(1)		1	1			4(5)			
<i>Carex praegracilis</i>						P				
<i>Carex</i> spp.										
<i>Critesion brachyantherum</i>				P						
<i>Critesion jubatum</i>					2					
<i>Elymus longifolius</i>			P	2						
<i>Hesperostipa comata</i>	10(3)	1	17	P						
<i>Koeleria macrantha</i>	P	P	P							
<i>Nassella viridula</i>										
<i>Pascopyrum smithii</i>		1	(1)	13(1)	2(1)	21(2)	57(4)	12(1)	P	
<i>Poa agassizensis</i>	2		1		34(2)	14(1)				
<i>Poa compressa</i>	P			P	1					
<i>Poa secunda</i>	P									
TOTAL NATIVE PERENNIAL GRASSES (c)	25(4)	2	19(1)	16(1)	40(3)	35(3)	61(9)	12(1)	P	
INTRODUCED PERENNIAL GRASSES (cool)										
<i>Agropyron cristatum</i>		P							38(1)	
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>	1									
<i>Agrostis gigantea</i>										
<i>Bromopsis inermis</i>					P				3	
<i>Dactylis glomerata</i>					P					
<i>Elytrigia repens</i>										
<i>Festuca pratensis</i>										
<i>Juncus effusus</i>					5					
<i>Phleum pratense</i>										
<i>Schedonnardus paniculatus</i>					P			P		
<i>Thinopyrum intermedium</i>										
TOTAL INTRO. PERENNIAL GRASSES (c)	1	P	---	---	5	---	---	P	41(1)	

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997 Page 12 of 16

PLANT SPECIES	Percent Foliar Cover*									
	----- SAMPLE NUMBER -----									
	24	26	28	30	32	34	36	38	40	
NATIVE PERENNIAL GRASSES (warm)										
Andropogon gerardii			1(1)							
Aristida purpurea		3							P	
Bouteloua curtipendula	1		2(1)							
Buchloe dactyloides					6(1)		1	2		
Calamovilfa longifolia										
Chondrosum gracile	2		1	19(9)	2					
Chondrosum hirsutum		P	P							
Distichlis spicata ssp. stricta										
Panicum virgatum										
Schizachyrium scoparium										
Sporobolus cryptandrus				P						
Sporobolus heterolepis										
TOTAL NATIVE PERENNIAL GRASSES (w)	3	3	4(2)	19(9)	8(1)	---	1	2	P	
NATIVE SHRUBS										
Amorpha nana										
Chrysothamnus nauseosus	3							1		
Crataegus rivularis										
Eriogonum effusum		2								
Rosa sayi								1(1)		
Yucca glauca	P	4	10							
TOTAL NATIVE SHRUBS	3	6	10	---	---	---	---	2(1)	---	
INTRODUCED TREES										
Ulmus pumila										
TOTAL INTRODUCED TREES	---	---	---	---	---	---	---	---	---	
FERNS										
Hippochaete laevigata										
TOTAL FERNS	---	---	---	---	---	---	---	---	---	
LICHEN										
Parmelia chlorocroa				1(1)						
TOTAL LICHEN	---	---	---	1(1)	---	---	---	---	---	
SUCCULENT										
Coryphantha vivipara var. vivipara										
Echinocereus viridiflorus	P		P	P						
Opuntia fragilis	P		P	P						
Opuntia macrorhiza	P	P	P	P						
Opuntia polyacantha								P		
TOTAL SUCCULENT	P	P	P	P	---	---	---	P	---	
MUSHROOMS										
Fungus						P				
TOTAL MUSHROOMS	---	---	---	---	---	P	---	---	---	
Standing dead	5	1	7	6	1		1			
Litter	38	22	35	29	28	37	23	30	35	
Bare soil	6	45	4	8	1	2	5	21	16	
Rock		4	2	1		1			1	
TOTALS	100	100	100	100	100	100	100	100	100	
TOTAL VEGETATION COVER	51(6)	28(2)	52(8)	56(13)	70(9)	60(6)	71(10)	49(8)	48(1)	
GROUND COVER (Litter+Rock+Veg+St. Dead)	94(6)	55(2)	96(8)	92(13)	99(9)	98(6)	95(10)	79(8)	84(1)	
SPECIES DENSITY (# of species/100 sq.m.) (AVERAGE= 35.3 Std.Dev.= 14.0)	40	33	52	36	24	14	10	43	27	

Table 3. Cover Data -- Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO -- June 1997 Page 13 of 16

PLANT SPECIES	Percent Foliar Cover*		
	--- SAMPLE NUMBER ---		
	42	44	46
NATIVE ANNUAL & BIENNIAL FORBS			
<i>Cirsium undulatum</i>		P	
<i>Collomia linearis</i>		P	
<i>Descurainia pinnata</i>			
<i>Draba reptans</i>			
<i>Dyssodia papposa</i>			
<i>Erigeron divergens</i>		P	P
<i>Erysimum asperum</i>		P	
<i>Grindelia squarrosa</i>		P	P
<i>Hedeoma hispidum</i>			
<i>Helianthus petiolaris</i>			
<i>Oligosporus pacificus</i>		P	
<i>Plantago patagonica</i>			(1)
<i>Pterogonum alatum</i>		P	
<i>Salvia aethiopsis</i>			
<i>Silene antirrhina</i>		P	
<i>Tithymalus spathulatus</i>			
TOTAL NATIVE ANN. & BIEN. FORBS	---	P	(1)
INTRODUCED ANNUAL & BIENNIAL FORBS			
<i>Acosta diffusa</i>	P		10
<i>Alyssum minus</i>	P	P	7(5)
<i>Camelina microcarpa</i>		P	
<i>Carduus nutans</i> ssp. <i>macrolepis</i>	P		
<i>Chamaesyce glyptosperma</i>			
<i>Crepis capillaris</i>		P	
<i>Erodium cicutarium</i>			1
<i>Lactuca serriola</i>			
<i>Lappula redowskii</i>			
<i>Lepidium densiflorum</i>			
<i>Medicago lupulina</i>			P
<i>Melilotus officinalis</i>	P		
<i>Neolepia campestre</i>			
<i>Noccaea montana</i>		P	
<i>Plantago lanceolata</i>			P
<i>Podospermum laciniatum</i>			P
<i>Sisymbrium altissimum</i>	P		
<i>Tragopogon dubius</i> ssp. <i>major</i>	P		P
<i>Turritis glabra</i>			
<i>Verbascum blattaria</i>			
<i>Verbascum phlomoides</i>			P
<i>Verbascum thapsus</i>	33(8)		
TOTAL INTRO. ANN. & BIEN. FORBS	33(8)	P	18(5)
NATIVE ANNUAL GRASSES			
<i>Vulpia octoflora</i>			P
TOTAL NATIVE ANN. GRASSES	---	---	P
INTRODUCED ANNUAL GRASSES			
<i>Anisantha tectorum</i>	34(13)		13(1)
<i>Bromus japonicus</i>	1	12(1)	5
<i>Cylindropyrum cylindricum</i>			
TOTAL INTRO. ANN. GRASSES	35(13)	12(1)	18(1)
NATIVE PERENNIAL FORBS			
<i>Achillea lanulosa</i>		2	
<i>Adenolinum lewisii</i>			
<i>Agoseris glauca</i>			
<i>Allium textile</i>			
<i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>	P	P	P
<i>Antennaria</i> spp.			
<i>Aphyllon fasciculatum</i>			
<i>Argemone polyanthemis</i>			
<i>Arnica fulgens</i>		2	
<i>Artemisia frigida</i>		P	

PLANT SPECIES	Percent Foliar Cover*		
	--- SAMPLE NUMBER ---		
	42	44	46
NATIVE PERENNIAL FORBS (continued)			
<i>Artemisia ludoviciana</i>			1
<i>Asclepias viridiflora</i>			
<i>Aster porteri</i>			
<i>Astragalus agrestis</i>		P	
<i>Astragalus bisulcatus</i>			
<i>Astragalus crassicaupus</i>			
<i>Astragalus drummondii</i>			
<i>Astragalus flexuosus</i>		1	
<i>Astragalus miser</i> var. <i>oblongifolius</i>			
<i>Astragalus shortianus</i>			
<i>Astragalus tridactylus</i>			
<i>Calochortus gunnisonii</i>		P	
<i>Calylophus serrulatus</i>			
<i>Castilleja sessiliflora</i>			
<i>Comandra umbellata</i> ssp. <i>pallida</i>		P	
<i>Dalea candida</i> var. <i>oligophylla</i>			
<i>Dalea purpurea</i>			
<i>Delphinium ramosum</i>			
<i>Drymocallis fissa</i>			1
<i>Eremogone fendleri</i>		P	
<i>Erigeron canus</i>			
<i>Erigeron flagellaris</i>			
<i>Evolvulus nuttalianus</i>			
<i>Gaillardia aristata</i>			
<i>Gastrolychnis drummondii</i>		P	
<i>Gaura coccinea</i>		P	
<i>Glandularia bipinnatifida</i>			
<i>Gutierrezia sarothrae</i>		P	P
<i>Hedysarum boreale</i>			
<i>Helianthus pumilus</i>			
<i>Heterotheca fulcrata</i>		P	
<i>Heterotheca villosa</i>		P	P
<i>Hybanthus verticillatus</i>			
<i>Hymenopappus filifolius</i>			
<i>Ipomopsis spicata</i>			
<i>Lesquerella montana</i>		P	
<i>Leucocrinum montanum</i>		P	
<i>Liatris punctata</i>		P	
<i>Lithospermum ruderae</i>			
<i>Lomatium orientale</i>			
<i>Lygodesmia juncea</i>			
<i>Machaeranthera canescens</i>			
<i>Machaeranthera pinnatifida</i>			
<i>Mertensia lanceolata</i>			
<i>Musineon divaricatum</i>		P	
<i>Nothocalais cuspidata</i>		P	
<i>Oenothera howardii</i>			
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>		P	
<i>Onosmodium molle</i> ssp. <i>occidentale</i>			
<i>Oxalis dillenii</i>			P
<i>Oxybaphus linearis</i>			
<i>Oxybaphus nyctagineus</i>			P
<i>Oxytropis x sericea</i>		P	
<i>Penstemon secundiflorus</i>			
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>		P	
<i>Phacelia hastata</i>		P	
<i>Phlox longifolia</i>		P	
<i>Physalis heterophylla</i>			
<i>Psoraleidium tenuiflorum</i>	P	3	
<i>Ratibida columnifera</i>		P	
<i>Rumex crispus</i>			
<i>Scutellaria brittonii</i>			
<i>Senecio integerrimus</i>		P	
<i>Senecio spartioides</i>			

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997 Page 15 of 16

PLANT SPECIES	Percent Foliar Cover*		
	--- SAMPLE NUMBER ---		
	42	44	46
NATIVE PERENNIAL FORBS (concluded)			
<i>Solidago simplex</i> var. <i>nana</i>			
<i>Solidago speciosus</i>			1
<i>Solidago</i> spp.			
<i>Sphaeralcea coccinea</i>			
<i>Thelesperma megapotamicum</i>			
<i>Tithymalus brachyceras</i>		P	
<i>Townsendia exscapa</i>			
<i>Tradescantia occidentalis</i>			
<i>Vicia americana</i>			
<i>Viola nuttallii</i>		P	
<i>Virgulus falcatus</i>	P	3	6
TOTAL NATIVE PERENNIAL FORBS	P	11	9
INTRODUCED PERENNIAL FORBS			
<i>Arabis hirsuta</i>			
<i>Cardaria chalapensis</i>			
<i>Cichorium intybus</i>	P		
<i>Convolvulus arvensis</i>	10	P	21(3)
<i>Hypericum perforatum</i>		P	
<i>Medicago sativa</i>			
<i>Taraxacum officinale</i>		P	P
<i>Trifolium pratense</i>			P
<i>Verbena bracteata</i>	P		P
TOTAL INTRO. PERENNIAL FORBS	10	P	21(3)
NATIVE PERENNIAL GRASSES (cool)			
<i>Carex foenea</i>			
<i>Carex pensylvanica</i> ssp. <i>heliophila</i>		7	
<i>Carex praegracilis</i>			
<i>Carex</i> spp.			
<i>Critesion brachyantherum</i>			
<i>Critesion jubatum</i>			
<i>Elymus longifolius</i>			1
<i>Hesperostipa comata</i>			
<i>Koeleria macrantha</i>		4	
<i>Nassella viridula</i>		1	P
<i>Pascopyrum smithii</i>		5(1)	4(1)
<i>Poa agassizensis</i>	P	7(2)	P
<i>Poa compressa</i>		7(2)	P
<i>Poa secunda</i>			
TOTAL NATIVE PERENNIAL GRASSES (c)	P	31(5)	5(1)
INTRODUCED PERENNIAL GRASSES (cool)			
<i>Agropyron cristatum</i>			
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>			
<i>Agrostis gigantea</i>			P
<i>Bromopsis inermis</i>	P		
<i>Dactylis glomerata</i>			P
<i>Elytrigia repens</i>			
<i>Festuca pratensis</i>			P
<i>Juncus effusus</i>			
<i>Phleum pratense</i>			
<i>Schedonnardus paniculatus</i>			
<i>Thinopyrum intermedium</i>			
TOTAL INTRO. PERENNIAL GRASSES (c)	P	---	P

Table 3. Cover Data – Unaffected Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997 Page 16 of 16

PLANT SPECIES	Percent Foliar Cover*		
	--- SAMPLE NUMBER ---		
	42	44	46
NATIVE PERENNIAL GRASSES (warm)			
Andropogon gerardii		1	
Aristida purpurea			P
Bouteloua curtipendula		1	
Buchloe dactyloides		P	
Calamovilfa longifolia			
Chondrosum gracile		P	
Chondrosum hirsutum			
Distichlis spicata ssp. stricta			
Panicum virgatum			
Schizachyrium scoparium		1(1)	
Sporobolus cryptandrus	8(2)		P
Sporobolus heterolepis			
TOTAL NATIVE PERENNIAL GRASSES (w)	8(2)	3(1)	P
NATIVE SHRUBS			
Amorpha nana			
Chrysothamnus nauseosus		P	
Crataegus rivularis			P
Eriogonum effusum			
Rosa sayi			5
Yucca glauca	P		
TOTAL NATIVE SHRUBS	P	P	5
INTRODUCED TREES			
Ulmus pumila	1		
TOTAL INTRODUCED TREES	1	---	---
FERNS			
Hippochaete laevigata			
TOTAL FERNS	---	---	---
LICHEN			
Parmelia chlorocroa			
TOTAL LICHEN	---	---	---
SUCCULENT			
Coryphantha vivipara var. vivipara			
Echinocereus viridiflorus			
Opuntia fragilis		P	
Opuntia macrorhiza		P	
Opuntia polyacantha			
TOTAL SUCCULENT	---	P	---
MUSHROOMS			
Fungus			
TOTAL MUSHROOMS	---	---	---
Standing dead	2	4(2)	1
Litter	11	34	23
Bare soil		3	
Rock		2	
TOTALS	100	100	100
TOTAL VEGETATION COVER	87(23)	57(7)	76(11)
GROUND COVER (Litter+Rock+Veg+St.Dead)	100(23)	97(9)	100(11)
SPECIES DENSITY (# of species/100 sq.m.)	20	60	39
(AVERAGE = 35.3 Std.Dev. = 14.0)			

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

SAMPLE
NUMBER-----

Latin Name	Common Name	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18
NATIVE ANNUAL & BIENNIAL FORBS																		
<i>Androsace occidentalis</i>	WESTERN ROCKJASMINE																	
<i>Androsace septentrionalis</i>	PYGMYFLOWER ROCKJASMINE			X														
<i>Cirsium undulatum</i>	WAVYLEAF THISTLE		X		X			X	X	X			X		X	X	X	X
<i>Collinsia parviflora</i>	BABY BLUE-EYES																	
<i>Collomia linearis</i>	LINEARLEAF COLLOMIA																	
<i>Cryptantha minima</i>	CRYPTANTHA																	
<i>Descurainia incana</i>	RICHARDSON TANSYMUSTARD	X																
<i>Descurainia pinnata</i>	PINNATE TANSYMUSTARD																	
<i>Draba reptans</i>	WHITLOWWORT																X	
<i>Draba spp.</i>	WHITLOWWORT																	
<i>Dyssodia papposa</i>	PAPPOSE GLANDWEED																	
<i>Erigeron divergens</i>	SPREADING FLEABANE				X													
<i>Erysimum asperum</i>	WALLFLOWER			X					X									
<i>Fraseria speciosa</i>	GREEN GENTIAN																	
<i>Grindelia squarrosa</i>	GUMWEED	X	X	X	X					X			X	X				
<i>Hedeoma hispidum</i>	ROUGH FALSEPENNYROYAL																	
<i>Helianthus annuus</i>	COMMON SUNFLOWER																	
<i>Helianthus petiolaris</i>	PRAIRIE SUNFLOWER																	
<i>Machaeranthera tanacetifolia</i>	TANSYLEAF ASTER																X	X
<i>Oligosporus pacificus</i>	SAGEWORT				X									X		X	X	
<i>Oreocarya virgata</i>	MINER'S CANDLE																	
<i>Plantago patagonica</i>	WOOLLY PLANTAIN	X	X	X	X	X			X				X	X	X	X	X	X
<i>Pterogonum alatum</i>	WINGED BUCKWHEAT				X													
<i>Salvia aethiops</i>	MEDITERRANEAN SAGE																	
<i>Silene antirrhina</i>	SLEEPY CATCHFLY	X		X	X								X	X	X			
<i>Tithymalus spathulatus</i>	PRAIRIE SPURGE																	
INTRODUCED ANNUAL & BIENNIAL FORBS																		
<i>Acosta diffusa</i>	TUMBLE KNAPWEED	X	X	X		X	X			X	X							
<i>Alyssum minus</i>	ALYSSUM	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X
<i>Camelina microcarpa</i>	LITTLEPOD FALSEFLAX				X													
<i>Cardaria draba</i>	WHITETOP				X												X	X
<i>Carduus nutans ssp. macrolepis</i>	MUSK THISTLE																	
<i>Chamaesyce glyptosperma</i>	RIDGESEED SPURGE	X						X			X	X	X		X		X	
<i>Cirsium vulgare</i>	BULL THISTLE																	
<i>Crepis capillaris</i>	HAWKSBEARD											X						
<i>Cynoglossum officinale</i>	HOUD'S TONGUE																	
<i>Descurainia sophia</i>	FLIXWEED TANDYMUSTARD												X					
<i>Dipsacus sylvestris</i>	TEASEL																	
<i>Erodium cicutarium</i>	FILAREE	X		X		X												
<i>Lactuca serriola</i>	PRICKLY LETTUCE										X	X	X	X	X		X	X
<i>Lappula redowskii</i>	EARLY STICKSEED									X	X	X	X	X	X	X	X	X
<i>Lepidium densiflorum</i>	DENSEFLOWER PEPPERWEED																	
<i>Medicago lupulina</i>	BLACK MEDIC										X	X						
<i>Melilotus officinalis</i>	YELLOW SWEETCLOVER										X	X						X

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

		SAMPLE -----NUMBER-----																	
Latin Name	Common Name	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18	
INTRODUCED ANNUAL & BIENNIAL FORBS (concluded)																			
Neolepia campestre	FIELD PEPPERWEED	X			X														
Noccaea montana	MOUNTAIN CANDYTUFT											X							
Plantago lanceolata	BUCKHORN PLAINTAIN					X	X				X	X	X	X					
Podospermum laciniatum	FALSE SALSIFY		X		X				X		X					X	X	X	
Polygonum ramosissimum	DEVIL'S SHOESTRINGS											X							
Sisymbrium altissimum	JIM HILL MUSTARD			X		X	X						X	X			X	X	
Solanum americanum	BLACK NIGHTSHADE											X							
Tragopogon dubius ssp. major	SALSIFY	X	X		X		X	X	X	X			X	X	X	X	X	X	
Turritis glabra	TOWER MUSTARD		X																
Verbascum blattaria	MOTH MULLEIN					X	X			X							X		
Verbascum phlomoides	CLASPING LEAF MULLEIN																		
Verbascum thapsus	MULLEIN					X	X			X		X	X						
NATIVE ANNUAL GRASSES																			
Critesion pusillum	LITTLE BARLEY												X						
Vulpia octoflora	SIX-WEEKS FESCUE		X										X						
INTRODUCED ANNUAL GRASSES																			
Anisantha tectorum	CHEATGRASS	X		X	X	X	X	X		X	X	X	X	X	X		X	X	
Bromus japonicus	JAPANESE BROME		X	X			X		X					X	X	X			
Cylindropyrum cylindricum	GOAT GRASS						X												
NATIVE PERENNIAL FORBS																			
Acetosella vulgaris	SHEEP SORREL									X		X							
Achillea lanulosa	WESTERN YARROW	X	X	X		X													
Adenolinum lewisii	BLUE FLAX										X		X				X	X	
Agoseris glauca	FALSE DANDELION																		
Allium textile	PRAIRIE ONION		X					X											
Ambrosia psilostachya var. coronopifolia	RAGWEED			X	X		X	X	X	X	X	X	X	X	X	X	X	X	
Amerosedum lanceolatum	YELLOW STONECROP																		
Antennaria corymbosa	FLATTOP PUSSYTOES																		
Antennaria spp.	PUSSYTOES		X																
Aphyllon fasciculatum	PURPLE BROOMRAPE												X	X				X	
Apocynum cannabinum	INDIAN HEMP																		
Argemone polyanthemus	PRICKLEY POOPY																		
Arnica fulgens	ARNICA	X	X		X														
Artemisia frigida	FRINGED SAGE	X	X	X	X			X	X	X	X		X	X	X	X		X	
Artemisia ludoviciana	PASTURE SAGE		X	X		X	X	X		X	X				X	X	X	X	
Asclepias pumila	MILKWEED																		
Asclepias speciosa	SHOWY MILKWEED																		
Asclepias viridiflora	MILKWEED													X				X	
Aster porteri	PORTER ASTER			X	X											X	X		
Astragalus agrestis	FIELD MILKVETCH	X									X					X	X		
Astragalus bisulcatus	TWO-GROOVE MILKVETCH																		
Astragalus crassicaupus	GROUNDPLUM MILKVETCH										X					X		X	

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

Latin Name	Common Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Astragalus drummondii	DRUMMOND MILKVETCH																		
Astragalus flexuosus	MILK VETCH																		
Astragalus miser var. oblongifolius	WEEDY MILKVETCH																		
Astragalus shortianus	MILK VETCH																		
Astragalus tridactylus	MILK VETCH																		
Calochortus gunnisonii	GUNNISON MARIPOSA-LILY																		
Calyclophus serrulatus	CALYCLOPHUS																		
Castilleja sessiliflora	LARGEFLOWERED PAINTBRUSH																		
Comandra umbellata ssp. pallida	BASTARD TOADFLAX																		
Dalea candida var. oligophylla	WHITE DALEA																		
Dalea purpurea	DALEA																		
Delphinium ramosum	LARKSPUR																		
Dymocallis fissa	BIGFLOWER CINQUEFOIL																		
Eremogone fendleri	DESERT SANDWORT																		
Erigeron canus	DAISY																		
Erigeron flagellaris	WHIPLASH FLEABANE																		
Evolvulus nuttallianus	NUTTALL'S EVOLVULUS																		
Gallardia aristata	BLANKET-FLOWER																		
Gastrolychnis drummondii	DRUMMOND CAMPION																		
Gaura coccinea	GAURA																		
Glandularia bipinnatifida	SHOWY VERVAIN																		
Gutierrezia sarothrae	SNAKEWEED																		
Hedysarum boreale	NORTHERN SWEETVETCH																		
Helianthus pumilus	SUNFLOWER																		
Heterotheca fulcrata	GOLDEN ASTER																		
Heterotheca villosa	GOLDEN ASTER																		
Heuchera hallii	ALUMROOT																		
Hybanthus verticillatus	WHORLED NODDIOLET																		
Hymenopappus filifolius	HYMENOPAPPUS																		
Ipomopsis spicata	SPIKE GILIA																		
Iris missouriensis	WILD IRIS																		
Lesquerella montana	BLADDERPOD																		
Leucocitrium montanum	SAND LILY																		
Liatris punctata	GAYFEATHER																		
Lithospermum ruderale	WAYSIDE GROMWELL																		
Lomatium orientale	BISCUITROOT																		
Lupinus caudatus	TAILCUP LUPINE																		
Lygodesmia juncea	SKELTONWEED																		
Machaeranthera canescens	HOARY TANSEYASTER																		
Machaeranthera pinnatifida	TANSEY ASTER																		
Mertensia lanceolata	BLUEBELLS																		
Monarda pectinata	PONY BEEBALM																		
Musineon divaricatum	MUSINEON																		
Notthoccalais cuspidata	FALSE DANDELION																		
Oenothera caespitosa	CAESPITOSE EVENING-PRIMROSE																		

SAMPLE
-----NUMBER-----

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

		SAMPLE -----NUMBER-----																	
Latin Name	Common Name	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18	
NATIVE PERENNIAL FORBS (concluded)																			
<i>Oenothera howardii</i>	HOWARD EVENINGPRIMROSE														X	X	X		
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>	WILD TARRAGON		X															X	
<i>Onosmodium molle</i> ssp. <i>occidentale</i>	MARBLESEED									X	X								
<i>Oxalis dillenii</i>	WOOD SORREL									X		X							
<i>Oxybaphus linearis</i>	UMBRELLAWORT								X				X				X	X	
<i>Oxybaphus nyctagineus</i>	UMBRELLAWORT					X	X												
<i>Oxytropis x sericea</i>	LOCO HYBRID							X	X		X					X			
<i>Packera fendleri</i>	GROUNDSEL			X															
<i>Packera plattensis</i>	PRAIRIE GROUNDSEL																		
<i>Paronychia jamesii</i>	NAILWORT							X											
<i>Penstemon secundiflorus</i>	SIDEBELLS BEARD-TONGUE							X					X	X					
<i>Penstemon virens</i>	GREEN BEARD-TONGUE			X															
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>	WANDBLOOM BEARD-TONGUE																		
<i>Phacelia hastata</i>	HASTATE SCORPIONWEED																		
<i>Phlox longifolia</i>	LONGLEAF PHLOX																		
<i>Phyla cuneifolia</i>	FOGFRUIT											X							
<i>Physalis heterophylla</i>	GROUND-CHERRY																		
<i>Picradeniopsis oppositifolia</i>	PLAINS BAHIA																		
<i>Potentilla hippiana</i>	HORSE CINQUEFOIL							X											
<i>Psoraleidium tenuiflorum</i>	SCURFPEA		X	X	X			X	X	X	X		X	X	X	X	X	X	
<i>Ratibida columnifera</i>	PRAIRIE CONEFLOWER		X		X			X	X		X			X	X	X			
<i>Rumex crispus</i>	CURLY DOCK						X												
<i>Scutellaria brittonii</i>	SKULLCAP																		
<i>Senecio integerrimus</i>	LAMBSTONGUE GROUNDSEL		X														X		
<i>Senecio spartioides</i>	SENECIO							X						X			X	X	
<i>Solanum</i> spp.	NIGHTSHADE																		
<i>Solidago missouriensis</i>	MISSOURI GOLDENROD																		
<i>Solidago simplex</i> var. <i>nana</i>	DWARF GOLDENROD																		
<i>Solidago speciosus</i>	NOBLE GOLDENROD																		
<i>Solidago</i> spp.	GOLDENROD						X												
<i>Sphaeralcea coccinea</i>	COPPER MALLOW	X	X	X	X			X							X	X	X		
<i>Thelesperma megapotamicum</i>	THELESPERMA													X	X	X			
<i>Tithymalus brachyceras</i>	SPURGE							X							X		X		
<i>Townsendia exscapa</i>	STEMLESS TOWNSENDIA							X	X										
<i>Tradescantia occidentalis</i>	SPIDERWORT				X														
<i>Vicia americana</i>	AMERICAN VETCH	X	X													X			
<i>Viola nuttallii</i>	YELLOW PRAIRIE VIOLET				X			X	X	X	X			X	X	X	X	X	
<i>Virgulus falcatus</i>	FALCATE ASTER	X	X	X	X		X		X	X	X	X		X	X	X		X	

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		SAMPLE -----NUMBER-----																	
Latin Name	Common Name	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18	
INTRODUCED PERENNIAL FORBS																			
Arabis hirsuta	HAIRY ROCKCRESS		X																
Breaa arvensis	CANADA THISTLE																		
Cardaria chalepensis	WHITETOP						X												
Cichorium intybus	CHICORY																		
Convolvulus arvensis	BINDWEED					X	X	X				X	X	X	X		X	X	
Hypericum perforatum	KLAMATH WEED			X						X						X			
Linaria genistifolia ssp. dalmatica	DALMATION TOADFLAX												X						
Lotus tenuis	LOTUS											X							
Marrubium vulgare	HOREHOUND																		
Medicago sativa	ALFALFA					X	X												
Taraxacum officinale	DANDELION		X		X		X	X		X		X	X	X	X	X		X	
Trifolium hybridum	ALSIKE CLOVER											X							
Trifolium pratense	RED CLOVER																		
Verbena bracteata	VERVAIN									X									
NATIVE PERENNIAL GRASSES (cool)																			
Agrostis spp.	BENTGRASS											X							
Carex foenea	HAY SEDGE																		
Carex pensylvanica ssp. heliophila	SUN SEDGE		X		X			X	X		X		X	X		X			
Carex praegracilis	SEdge																		
Carex spp.	SEdge																		
Critesion brachyantherum	MEADOW BARLEY																		
Critesion jubatum	FOXTAIL BARLEY							X			X	X					X	X	
Dicanthelium oligosanthes var. scribnerianum	DICHANTHELIUM											X							
Elymus elymoides	BOTTLEBRUSH SQUIRRELTAIL												X						
Elymus lanceolatus fm. albicans	MONTANA WHEATGRASS																		
Elymus longifolius	BOTTLEBRUSH SQUIRRELTAIL																		
Hesperostipa comata	NEEDLE- AND - THREAD							X	X		X		X	X		X	X	X	
Juncus arcticus ssp. ater	BALTIC RUSH																		
Koeleria macrantha	JUNEGRASS	X	X		X			X	X				X	X		X		X	
Nassella viridula	GREEN NEEDLEGRASS		X		X														
Pascopyrum smithii	WESTERN WHEATGRASS	X	X	X	X		X	X	X	X	X	X			X	X	X	X	
Pascopyrum smithii var. smithii	WESTERN WHEATGRASS																		
Poa agassizensis	AGASSIZ BLUEGRASS	X			X		X			X	X	X	X			X		X	
Poa compressa	CANADA BLUEGRASS		X		X						X	X		X		X			
Poa secunda	SANDBERG BLUEGRASS		X	X															

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		SAMPLE -----NUMBER-----																	
Latin Name	Common Name	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18	
INTRODUCED PERENNIAL GRASSES (cool)																			
<i>Agropyron cristatum</i>	CRESTED WHEATGRASS "FAIRWAY"																		
<i>Agropyron cristatum</i> ssp. <i>desertorum</i>	DESERT WHEATGRASS																		
<i>Agrostis gigantea</i>	REDTOP																		
<i>Bromopsis inermis</i>	SMOOTH BROME																		
<i>Dactylis glomerata</i>	ORCHARD GRASS																		
<i>Elytrigia repens</i>	QUACKGRASS																		
<i>Festuca pratensis</i>	MEADOW FESCUE																		
<i>Juncus effusus</i>	SOFT RUSH																		
<i>Phleum pratense</i>	TIMOTHY																		
<i>Schedonnardus paniculatus</i>	COMMON THUMBLEGRASS																		
<i>Thinopyrum intermedium</i>	INTERMEDIATE WHEATGRASS																		
NATIVE PERENNIAL GRASSES (warm)																			
<i>Andropogon gerardii</i>	BIG BLUESTEM, TURKEYFOOT																		
<i>Aristida purpurea</i>	THREE-AWN																		
<i>Bouteloua curtipendula</i>	SIDEOATS GRAMA																		
<i>Buchloe dactyloides</i>	BUFFALOGRASS																		
<i>Calamovilfa longifolia</i>	SANDREED																		
<i>Chondrosom gracile</i>	BLUE GRAMA GRASS																		
<i>Chondrosom hirsutum</i>	HAIRY GRAMA																		
<i>Distichlis spicata</i> ssp. <i>stricta</i>	SALTGRASS																		
<i>Panicum virgatum</i>	SWITCHGRASS																		
<i>Schizachyrium scoparium</i>	LITTLE BLUESTEM																		
<i>Sporobolus cryptandrus</i>	SAND DROPSEED																		
<i>Sporobolus heterolepis</i>	PRAIRIE DROPSEED																		
NATIVE SHRUBS																			
<i>Amorpha nana</i>	LEAD PLANT																		
<i>Chrysothamnus nauseosus</i>	RUBBER RABBITBRUSH																		
<i>Crataegus rivularis</i>	RIVER HAWTHORN																		
<i>Eriogonum effusum</i>	WILD BUCKWHEAT																		
<i>Rosa sayi</i>	PRICKLY ROSE																		
<i>Symphoricarpos rotundifolius</i>	MOUNTAIN SNOWBERRY																		
<i>Yucca glauca</i>	SPANISH BAYONET																		
NATIVE TREES																			
<i>Ulmus pumila</i>	CHINESE ELM																		
FERNS																			
<i>Hippochaete hyemalis</i> ssp. <i>affinis</i>	SCOURING-RUSH																		
<i>Hippochaete laevigata</i>	SMOOTH HORSETAIL																		

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

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		SAMPLE -----NUMBER-----																	
Latin Name	Common Name	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18	
BRYOPHYTES																			
Moss	MOSS			X															
LICHEN																			
Lichen	LICHEN																		
<i>Parmelia chlorocroa</i>	LICHEN																		
SUCCULENT																			
<i>Coryphantha vivipara</i> var. <i>vivipara</i>	NIPPLE CACTUS		X												X		X		
<i>Echinocereus viridiflorus</i>	HEN-AND-CHICKENS							X	X					X					
<i>Opuntia fragilis</i>	BRITTLE CACTUS		X						X					X			X		
<i>Opuntia macrorhiza</i>	PRICKLEY-PEAR CACTUS		X		X		X	X	X	X	X			X	X	X	X		
<i>Opuntia polyacantha</i>	PRICKLYPEAR CACTUS																		
MUSHROOMS																			
Fungus	MUSHROOM	X			X					X									

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

Latin Name	Common Name	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
NATIVE ANNUAL & BIENNIAL FORBS																		
Androsace septentrionalis	WESTERN ROCKJASMINE																	
Cirsium undulatum	PYGMFLOWER ROCKJASMINE																	
Collinsia parviflora	WAVYLEAF THISTLE	X	X				X		X						X			
Collomia linearis	BABY BLUE-EYES											X						
Cryptantha minima	LINEARLEAF COLLOMIA																	
Descurainia incana	CRYPTANTHA									X								
Descurainia pinnata	RICHARDSON TANSYMUSTARD																	
Draba reptans	PINNATE TANSYMUSTARD					X			X	X	X							
Draba spp.	WHITLOWWORT									X								
Dysodia papposa	WHITLOWWORT					X												
Erigeron divergens	PAPPOSE GLANDWEED																	
Erysimum asperum	SPREADING FLEABANE																	
Frasera speciosa	WALLFLOWER						X		X									
Grindelia squarrosa	GREEN GENTIAN																	
Hedeoma hispidum	GUMWEED		X										X		X		X	
Helianthus annuus	ROUGH FALSEPENNYROYAL										X							
Helianthus petiolaris	COMMON SUNFLOWER	X																
Machaeranthera tanacetifolia	PRAIRIE SUNFLOWER																	
Oligosporus pacificus	TANSYLEAF ASTER							X										
Oreocarya virgata	SAGEWORT						X											
Plantago patagonica	MINER'S CANDLE																	
Pterogonum alatum	WOOLLY PLANTAIN																	
Salvia aethiopis	WINGED BUCKWHEAT				X		X			X	X	X	X	X	X	X		
Silene antirrhina	MEDITERRANEAN SAGE																	
Tithymalus spathulatus	SLEEPY CATCHFLY																	X
	PRAIRIE SPURGE																	
INTRODUCED ANNUAL & BIENNIAL FORBS																		
Acosta diffusa	TUMBLE KNAPWEED	X	X				X											
Alyssum minus	ALYSSUM	X	X						X	X	X	X	X	X	X	X		
Camelina microcarpa	LITTLEPOD FALSEFLAX						X				X							
Cardaria draba	WHITETOP																	
Carduus nutans ssp. macrolepis	MUSK THISTLE			X														
Chamaesyce glyptosperma	RIDGESEED SPURGE	X							X									
Cirsium vulgare	BULL THISTLE								X		X							
Crepis capillaris	HAWKSBEARD																	
Cynoglossum officinale	HOUND'S TONGUE																	
Descurainia sophia	FLIXWEED TANDYMUSTARD							X										
Dipsacus sylvestris	TEASEL															X		
Erodium cicutarium	FILAREE																	
Lactuca serriola	PRICKLY LETTUCE					X			X	X	X			X	X	X	X	
Lappula redowskii	EARLY STICKSEED								X	X	X							
Lepidium densiflorum	DENSEFLOWER PEPPERWEED					X				X	X	X						
Medicago lupulina	BLACK MEDIC	X	X				X					X		X				
Mellilotus officinalis	YELLOW SWEETCLOVER	X		X	X			X	X					X		X	X	

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

		SAMPLE -----NUMBER-----																	
Latin Name	Common Name	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
INTRODUCED ANNUAL & BIENNIAL FORBS (concluded)																			
<i>Neolepia campestre</i>	FIELD PEPPERWEED													X					
<i>Nocca montana</i>	MOUNTAIN CANDYTUFT		X													X			
<i>Plantago lanceolata</i>	BUCKHORN PLANTAIN													X		X			
<i>Podospermum laciniatum</i>	FALSE SALSIFY	X	X				X												
<i>Polygonum ramosissimum</i>	DEVIL'S SHOESTRINGS							X											
<i>Sisymbrium altissimum</i>	JIM HILL MUSTARD					X		X	X	X	X	X							
<i>Solanum americanum</i>	BLACK NIGHTSHADE																		
<i>Tragopogon dubius ssp. major</i>	SALSIFY		X		X		X			X							X		
<i>Turritis glabra</i>	TOWER MUSTARD																		
<i>Verbascum blattaria</i>	MOTH MULLEIN																		
<i>Verbascum phlomoides</i>	CLASPING LEAF MULLEIN																		
<i>Verbascum thapsus</i>	MULLEN	X		X										X					
NATIVE ANNUAL GRASSES																			
<i>Critesion pusillum</i>	LITTLE BARLEY																		
<i>Vulpia octoflora</i>	SIX - WEEKS FESCUE					X	X			X					X			X	
INTRODUCED ANNUAL GRASSES																			
<i>Anisantha tectorum</i>	CHEATGRASS	X				X	X			X	X	X	X	X	X			X	
<i>Bromus japonicus</i>	JAPANESE BROME									X	X								
<i>Cylindropyrum cylindricum</i>	GOAT GRASS																		
NATIVE PERENNIAL FORBS																			
<i>Acetosella vulgaris</i>	SHEEP SORREL																		
<i>Achillea lanulosa</i>	WESTERN YARROW																		
<i>Adenolinum lewisii</i>	BLUE FLAX	X																	
<i>Agoseris glauca</i>	FALSE DANDELION										X								
<i>Allium textile</i>	PRAIRIE ONION																		
<i>Ambrosia psilostachya var. coronopifolia</i>	RAGWEED	X	X										X						
<i>Amaroscedum lancolatum</i>	YELLOW STONECROP																		
<i>Antennaria corymbosa</i>	FLATTOP PUSSYTOES																		
<i>Antennaria spp.</i>	PUSSYTOES											X							
<i>Aphyllon fasciculatum</i>	PURPLE BROOMRAPE																		
<i>Apocynum cannabinum</i>	INDIAN HEMP																		
<i>Argemone polyanthemus</i>	PRICKLEY POOPY													X					
<i>Arnica fulgens</i>	ARNICA																		
<i>Artemisia frigida</i>	FRINGED SAGE																		
<i>Artemisia ludoviciana</i>	PASTURE SAGE						X		X	X	X	X	X						
<i>Asclepias pumila</i>	MILKWEED								X										
<i>Asclepias speciosa</i>	SHOWY MILKWEED															X			
<i>Asclepias viridiflora</i>	MILKWEED																		
<i>Aster porteri</i>	PORTER ASTER																		
<i>Astragalus agrestis</i>	FIELD MILKVETCH																		
<i>Astragalus bisulcatus</i>	TWO - GROOVE MILKVETCH									X									
<i>Astragalus crassicaarpus</i>	GROUNDPLUM MILKVETCH																	X	

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		SAMPLE -----NUMBER-----																	
Latin Name	Common Name	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
NATIVE PERENNIAL FORBS (continued)																			
<i>Astragalus drummondii</i>	DRUMMOND MILKVETCH																		
<i>Astragalus flexuosus</i>	MILK VETCH																		
<i>Astragalus miser</i> var. <i>oblongifolius</i>	WEEDY MILKVETCH																		
<i>Astragalus shortianus</i>	MILK VETCH		X			X													
<i>Astragalus tridactylicus</i>	MILK VETCH										X					X			
<i>Calochortus gunnisonii</i>	GUNNISON MARIPOSA-LILY																		
<i>Calylophus serrulatus</i>	CALYLOPHUS																		
<i>Castilleja sessiliflora</i>	LARGEFLOWERED PAINTBRUSH																		
<i>Comandra umbellata</i> ssp. <i>pallida</i>	BASTARD TOADFLAX					X			X										
<i>Dalea candida</i> var. <i>oligophylla</i>	WHITE DALEA																		
<i>Dalea purpurea</i>	DALEA								X	X	X								
<i>Delphinium ramosum</i>	LARKSPUR																		
<i>Drymocallis fissa</i>	BIGFLOWER CINQUEFOIL																		
<i>Eremogone fendleri</i>	DESERT SANDWORT																		
<i>Erigeron canus</i>	DAISY						X												
<i>Erigeron flagellaris</i>	WHIPLASH FLEABANE										X			X	X		X		
<i>Evolvulus nuttallianus</i>	NUTTALL'S EVOLVULUS										X							X	
<i>Gaillardia aristata</i>	BLANKET-FLOWER																		
<i>Gastrolychnis drummondii</i>	DRUMMOND CAMPION																		
<i>Gaura coccinea</i>	GAURA		X			X	X	X	X	X			X			X		X	
<i>Glandularia bipinnatifida</i>	SHOWY VERVAIN																	X	
<i>Gutierrezia sarothrae</i>	SNAKEWEED	X	X				X		X	X	X		X			X		X	
<i>Hedysarum boreale</i>	NORTHERN SWEETVETCH																		
<i>Helianthus pumilus</i>	SUNFLOWER								X										
<i>Heterotheca fulcrata</i>	GOLDEN ASTER															X			
<i>Heterotheca villosa</i>	GOLDEN ASTER		X				X			X	X					X			
<i>Heuchera hallii</i>	ALUMROOT																		
<i>Hybanthus verticillatus</i>	WHORLED NODVIOLET																		
<i>Hymenopappus filifolius</i>	HYMENOPAPPUS																		
<i>Ipomopsis spicata</i>	SPIKE GILIA																		
<i>Iris missouriensis</i>	WILD IRIS																		
<i>Lesquerella montana</i>	BLADDERPOD						X												
<i>Leucocrinum montanum</i>	SAND LILY					X	X				X								
<i>Liatris punctata</i>	GAYFEATHER								X		X					X		X	
<i>Lithospermum rudemale</i>	WAYSIDE GROMWELL									X						X			
<i>Lomatium orientale</i>	BISCUITROOT					X					X		X			X			
<i>Lupinus caudatus</i>	TAILCUP LUPINE																		
<i>Lygodesmia juncea</i>	SKELETONWEED						X				X		X						
<i>Machaeranthera canescens</i>	HOARY TANSYASTER						X		X										
<i>Machaeranthera pinnatifida</i>	TANSEY ASTER						X			X	X								
<i>Mertensia lanceolata</i>	BLUEBELLS										X								
<i>Monarda pectinata</i>	PONY BEEBALM																		
<i>Musineon divaricatum</i>	MUSINEOM					X													
<i>Nothocalais cuspidata</i>	FALSE DANDELION																		
<i>Oenothera caespitosa</i>	CAESPITOSE EVENING-PRIMROSE					X													

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

		SAMPLE -----NUMBER-----																						
Latin Name	Common Name	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35						
NATIVE PERENNIAL FORBS (concluded)																								
<i>Oenothera howardii</i>	HOWARD EVENINGPRIMROSE		X				X		X															
<i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>	WILD TARRAGON						X		X		X	X	X											
<i>Onosmodium molle</i> ssp. <i>occidentale</i>	MARBLESEED																							
<i>Oxalis dillenii</i>	WOOD SORREL																							
<i>Oxybaphus linearis</i>	UMBRELLAWORT								X															
<i>Oxybaphus nyctagineus</i>	UMBRELLAWORT																							
<i>Oxytropis x sericea</i>	LOCO HYBRID						X				X													
<i>Packera fendleri</i>	GROUNDSEL																							
<i>Packera plattensis</i>	PRAIRIE GROUNDSEL							X																
<i>Paronychia jamesii</i>	NAILWORT																							
<i>Penstemon secundiflorus</i>	SIDEBELLS BEARD-TONGUE																							
<i>Penstemon virens</i>	GREEN BEARD-TONGUE																							
<i>Penstemon virgatus</i> ssp. <i>asa-grayi</i>	WANDBLOOM BEARD-TONGUE					X																		
<i>Phacelia hastata</i>	HASTATE SCORPIONWEED																							
<i>Phlox longifolia</i>	LONGLEAF PHLOX																							
<i>Phyla cuneifolia</i>	FOGFRUIT																							
<i>Physalis heterophylla</i>	GROUND-CHERRY										X													
<i>Picradeniopsis oppositifolia</i>	PLAINS BAHIA															X								
<i>Potentilla hippiana</i>	HORSE CINQUEFOIL																							
<i>Psoraleidium tenuiflorum</i>	SCURFPEA	X	X			X	X		X		X		X			X		X						
<i>Ratibida columnifera</i>	PRAIRIE CONEFLOWER																							
<i>Rumex crispus</i>	CURLY DOCK					X																		
<i>Scutellaria brittonii</i>	SKULLCAP										X													
<i>Senecio integerrimus</i>	LAMBSTONGUE GROUNDSEL																							
<i>Senecio spartioides</i>	SENECIO										X													
<i>Solanum</i> spp.	NIGHTSHADE					X																		
<i>Solidago missouriensis</i>	MISSOURI GOLDENROD	X																						
<i>Solidago simplex</i> var. <i>nana</i>	DWARF GOLDENROD																							
<i>Solidago speciosus</i>	NOBLE GOLDENROD																							
<i>Solidago</i> spp.	GOLDENROD																							
<i>Sphaeralcea coccinea</i>	COPPER MALLOW					X	X			X	X	X	X			X		X						
<i>Thelesperma megapotamicum</i>	THELESPERMA										X							X						
<i>Tithymalus brachyceras</i>	SPURGE																							
<i>Townsendia exscapa</i>	STEMLESS TOWNSENDIA																							
<i>Tradescantia occidentalis</i>	SPIDERWORT																							
<i>Vicia americana</i>	AMERICAN VETCH																							
<i>Viola nuttallii</i>	YELLOW PRAIRIE VIOLET					X				X	X													
<i>Virgulus falcatus</i>	FALCATE ASTER	X	X									X	X		X		X	X						

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Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

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		SAMPLE -----NUMBER-----																
Latin Name	Common Name	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
BRYOPHYTES																		
Moss	MOSS																	
LICHEN																		
Lichen	LICHEN																	
<i>Parmelia chlorocroa</i>	LICHEN													X				
SUCCULENT																		
<i>Coryphantha vivipara</i> var. <i>vivipara</i>	NIPPLE CACTUS																	
<i>Echinocereus viridiflorus</i>	HEN-AND-CHICKENS						X				X		X					
<i>Opuntia fragilis</i>	BRITTLE CACTUS						X				X		X					
<i>Opuntia macrorhiza</i>	PRICKLEY-PEAR CACTUS						X		X		X		X					
<i>Opuntia polyacantha</i>	PRICKLYPEAR CACTUS																	
MUSHROOMS																		
Fungus	MUSHROOM			X						X							X	X

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

		SAMPLE -----NUMBER-----											
Latin Name	Common Name	36	37	38	39	40	41	42	43	44	45	46	
NATIVE ANNUAL & BIENNIAL FORBS													
<i>Androsace occidentalis</i>	WESTERN ROCKJASMINE												
<i>Androsace septentrionalis</i>	PYGMYFLOWER ROCKJASMINE												
<i>Cirsium undulatum</i>	WAVYLEAF THISTLE			X					X	X			
<i>Collinsia parviflora</i>	BABY BLUE-EYES												
<i>Collomia linearis</i>	LINEARLEAF COLLOMIA								X	X			
<i>Cryptantha minima</i>	CRYPTANTHA												
<i>Descurainia incana</i>	RICHARDSON TANSYMUSTARD												
<i>Descurainia pinnata</i>	PINNATE TANSYMUSTARD												
<i>Draba reptans</i>	WHITLOWWORT												
<i>Draba spp.</i>	WHITLOWWORT												
<i>Dyssodia papposa</i>	PAPPOSE GLANDWEED		X	X									
<i>Erigeron divergens</i>	SPREADING FLEABANE						X			X		X	
<i>Erysimum asperum</i>	WALLFLOWER								X	X			
<i>Frasera speciosa</i>	GREEN GENTIAN								X				
<i>Grindelia squarrosa</i>	GUMWEED			X					X	X	X	X	
<i>Hedeoma hispidum</i>	ROUGH FALSEPENNYROYAL	X											
<i>Helianthus annuus</i>	COMMON SUNFLOWER												
<i>Helianthus petiolaris</i>	PRAIRIE SUNFLOWER												
<i>Machaeranthera tanacetifolia</i>	TANSYLEAF ASTER												
<i>Oligosporus pacificus</i>	SAGEWORT								X	X			
<i>Oreocarya virgata</i>	MINER'S CANDLE								X				
<i>Plantago patagonica</i>	WOOLLY PLANTAIN			X							X	X	
<i>Pterogonum alatum</i>	WINGED BUCKWHEAT								X	X			
<i>Salvia aethiopis</i>	MEDITERRANEAN SAGE		X	X									
<i>Silene antirrhina</i>	SLEEPY CATCHFLY						X		X	X			
<i>Tithymalus spathulatus</i>	PRAIRIE SPURGE			X									
INTRODUCED ANNUAL & BIENNIAL FORBS													
<i>Acosta diffusa</i>	TUMBLE KNAPWEED			X	X	X	X	X			X	X	
<i>Alyssum minus</i>	ALYSSUM			X	X			X	X	X	X	X	
<i>Camelina microcarpa</i>	LITTLEPOD FALSEFLAX								X	X			
<i>Cardaria draba</i>	WHITETOP												
<i>Carduus nutans ssp. macrolepis</i>	MUSK THISTLE				X			X	X				
<i>Chamaesyce glyptosperma</i>	RIDGESEED SPURGE												
<i>Cirsium vulgare</i>	BULL THISTLE												
<i>Crepis capillaris</i>	HAWKSBEARD									X			
<i>Cynoglossum officinale</i>	HOUND'S TONGUE										X		
<i>Descurainia sophia</i>	FLIXWEED TANDYMUSTARD												
<i>Dipsacus sylvestris</i>	TEASEL												
<i>Erodium cicutarium</i>	FILAREE	X	X	X							X	X	
<i>Lactuca serriola</i>	PRICKLY LETTUCE			X			X						
<i>Lappula redowskii</i>	EARLY STICKSEED												
<i>Lepidium densiflorum</i>	DENSEFLOWER PEPPERWEED												
<i>Medicago lupulina</i>	BLACK MEDIC						X					X	
<i>Melilotus officinalis</i>	YELLOW SWEETCLOVER				X		X	X					

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

		SAMPLE -----NUMBER-----											
Latin Name	Common Name	36	37	38	39	40	41	42	43	44	45	46	
INTRODUCED ANNUAL & BIENNIAL FORBS (concluded)													
<i>Neolepia campestre</i>	FIELD PEPPERWEED												
<i>Noccaea montana</i>	MOUNTAIN CANDYTUFT									X			
<i>Plantago lanceolata</i>	BUCKHORN PLAINTAIN										X	X	
<i>Podospermum laciniatum</i>	FALSE SALSIFY				X							X	
<i>Polygonum ramosissimum</i>	DEVIL'S SHOESTRINGS												
<i>Sisymbrium altissimum</i>	JIM HILL MUSTARD							X					
<i>Solanum americanum</i>	BLACK NIGHTSHADE												
<i>Tragopogon dubius</i> ssp. major	SALSIFY					X	X	X	X			X	
<i>Turritis glabra</i>	TOWER MUSTARD												
<i>Verbascum blattaria</i>	MOTH MULLEIN										X		
<i>Verbascum phlomoides</i>	CLASPING LEAF MULLEIN											X	
<i>Verbascum thapsus</i>	MULLEIN		X				X	X					
NATIVE ANNUAL GRASSES													
<i>Critesion pusillum</i>	LITTLE BARLEY						X						
<i>Vulpia octoflora</i>	SIX-WEEKS FESCUE								X			X	
INTRODUCED ANNUAL GRASSES													
<i>Anisantha tectorum</i>	CHEATGRASS	X	X	X			X	X	X		X	X	
<i>Bromus japonicus</i>	JAPANESE BROME	X		X				X	X	X		X	
<i>Cylindropyrum cylindricum</i>	GOAT GRASS												
NATIVE PERENNIAL FORBS													
<i>Acetosella vulgaris</i>	SHEEP SORREL												
<i>Achillea lanulosa</i>	WESTERN YARROW								X	X			
<i>Adenolinum lewisii</i>	BLUE FLAX				X		X						
<i>Agoseris glauca</i>	FALSE DANDELION												
<i>Allium textile</i>	PRAIRIE ONION		X						X				
<i>Ambrosia psilostachya</i> var. <i>coronopifolia</i>	RAGWEED				X		X	X	X	X		X	
<i>Amerosedum lanceolatum</i>	YELLOW STONECROP								X				
<i>Antennaria corymbosa</i>	FLATTOP PUSSYTOES								X				
<i>Antennaria</i> spp.	PUSSYTOES												
<i>Aphyllon fasciculatum</i>	PURPLE BROOMRAPE			X					X				
<i>Apocynum cannabinum</i>	INDIAN HEMP						X						
<i>Argemone polyanthemus</i>	PRICKLEY POOPY				X								
<i>Arnica fulgens</i>	ARNICA									X			
<i>Artemisia frigida</i>	FRINGED SAGE	X		X		X			X	X			
<i>Artemisia ludoviciana</i>	PASTURE SAGE			X		X						X	
<i>Asclepias pumila</i>	MILKWEED						X						
<i>Asclepias speciosa</i>	SHOWY MILKWEED		X										
<i>Asclepias viridiflora</i>	MILKWEED												
<i>Aster porteri</i>	PORTER ASTER												
<i>Astragalus agrestis</i>	FIELD MILKVETCH						X		X	X			
<i>Astragalus bisulcatus</i>	TWO-GROOVE MILKVETCH				X	X							
<i>Astragalus crassicaupus</i>	GROUNDPLUM MILKVETCH					X			X				

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Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

		SAMPLE -----NUMBER-----													
Latin Name	Common Name	36	37	38	39	40	41	42	43	44	45	46			
NATIVE PERENNIAL FORBS (concluded)															
Oenothera howardii	HOWARD EVENINGPRIMROSE					X									
Oligosporus dracunculus ssp. glaucus	WILD TARRAGON								X	X					
Onosmodium molle ssp. occidentale	MARBLESEED														
Oxalis dillenii	WOOD SORREL												X		
Oxybaphus linearis	UMBRELLAWORT														
Oxybaphus nyctagineus	UMBRELLAWORT												X		
Oxytropis x sericea	LOCO HYBRID					X			X	X					
Packera fendleri	GROUNDSEL														
Packera plattensis	PRAIRIE GROUNDSEL														
Paronychia jamesii	NAILWORT														
Penstemon secundiflorus	SIDEBELLS BEARD-TONGUE				X				X						
Penstemon virens	GREEN BEARD-TONGUE														
Penstemon virgatus ssp. asa-grayi	WANDBLOOM BEARD-TONGUE										X				
Phacelia hastata	HASTATE SCORPIONWEED										X				
Phlox longifolia	LONG LEAF PHLOX										X				
Phyla cuneifolia	FOGFRUIT											X			
Physalis heterophylla	GROUND-CHERRY														
Picradeniopsis oppositifolia	PLAINS BAHIA														
Potentilla hippiana	HORSE CINQUEFOIL														
Psoraleidium tenuiflorum	SCURFPEA		X	X	X	X	X	X	X	X	X	X			
Ratibida columnifera	PRAIRIE CONEFLOWER			X	X					X	X				
Rumex crispus	CURLY DOCK							X							
Scutellaria brittonii	SKULLCAP														
Senecio integerrimus	LAMBSTONGUE GROUNDSEL										X				
Senecio spartioides	SENECIO														
Solanum spp.	NIGHTSHADE														
Solidago missouriensis	MISSOURI GOLDENROD											X			
Solidago simplex var. nana	DWARF GOLDENROD				X										
Solidago speciosus	NOBLE GOLDENROD												X		
Solidago spp.	GOLDENROD														
Sphaeralcea coccinea	COPPER MALLOW		X	X	X										
Thelesperma megapotamicum	THELESPERMA				X										
Tithymalus brachyceras	SPURGE									X	X				
Townsendia exscapa	STEMLESS TOWNSENDIA														
Tradescantia occidentalis	SPIDERWORT														
Vicia americana	AMERICAN VETCH														
Viola nuttallii	YELLOW PRAIRIE VIOLET			X						X	X				
Virgulus falcatus	FALCATE ASTER	X		X					X	X	X	X	X		

Table 4. Species Present – All Sites, Boulder City Open Space Prairie Dog Study, CO – June 1997

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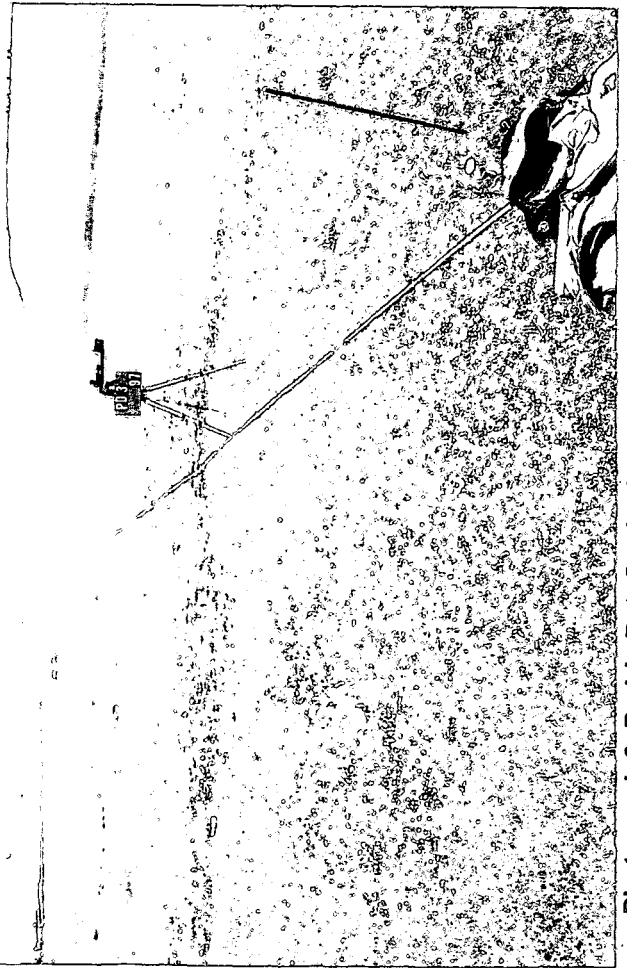
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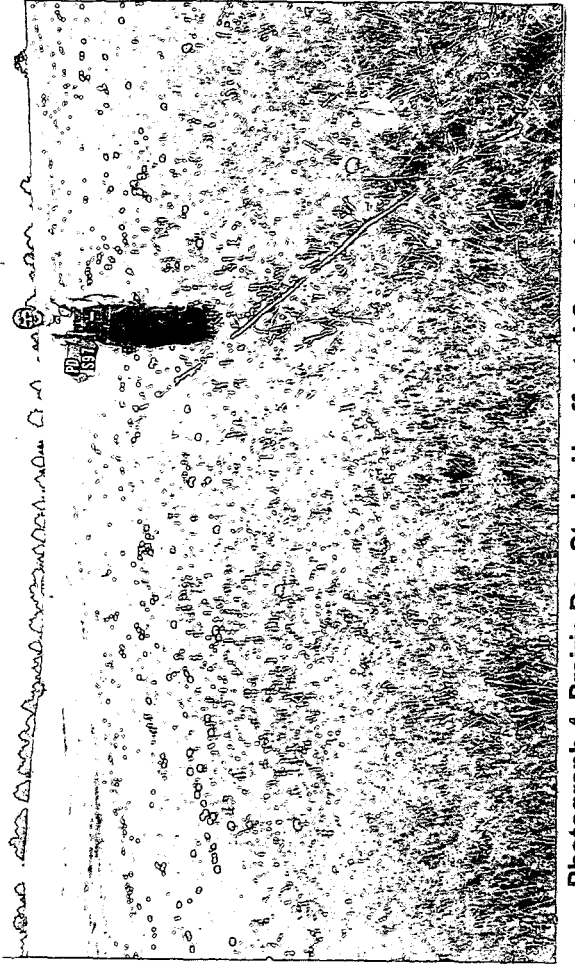
Photograph 1. Prairie Dog Study, Affected Sample 1-June '97.



Photograph 2. Prairie Dog Study, Unaffected Sample 2-June '97.



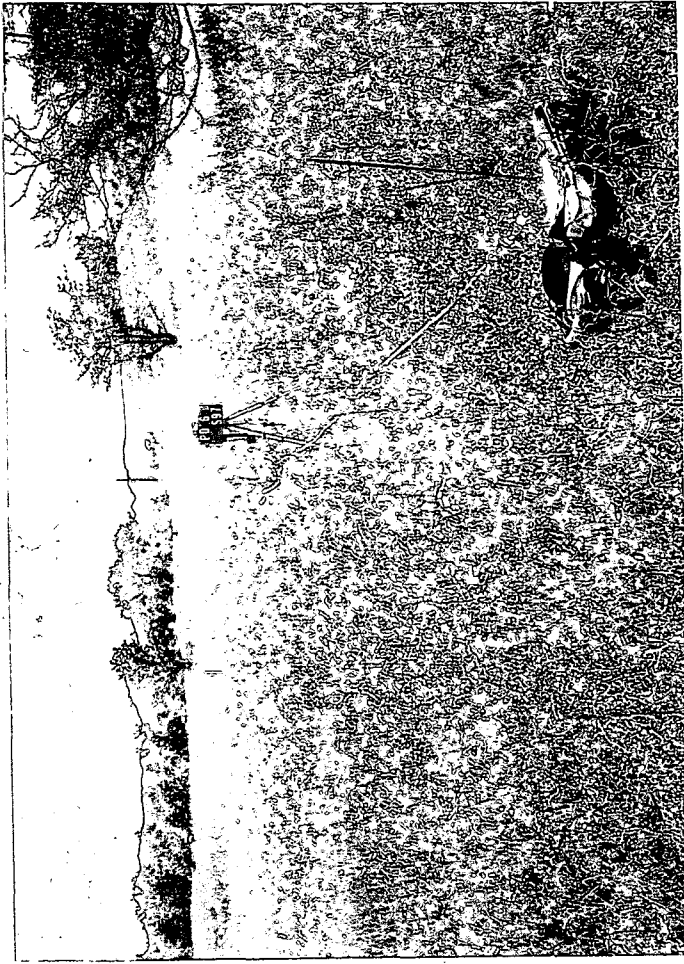
Photograph 3. Prairie Dog Study, Affected Sample 3-June '97.



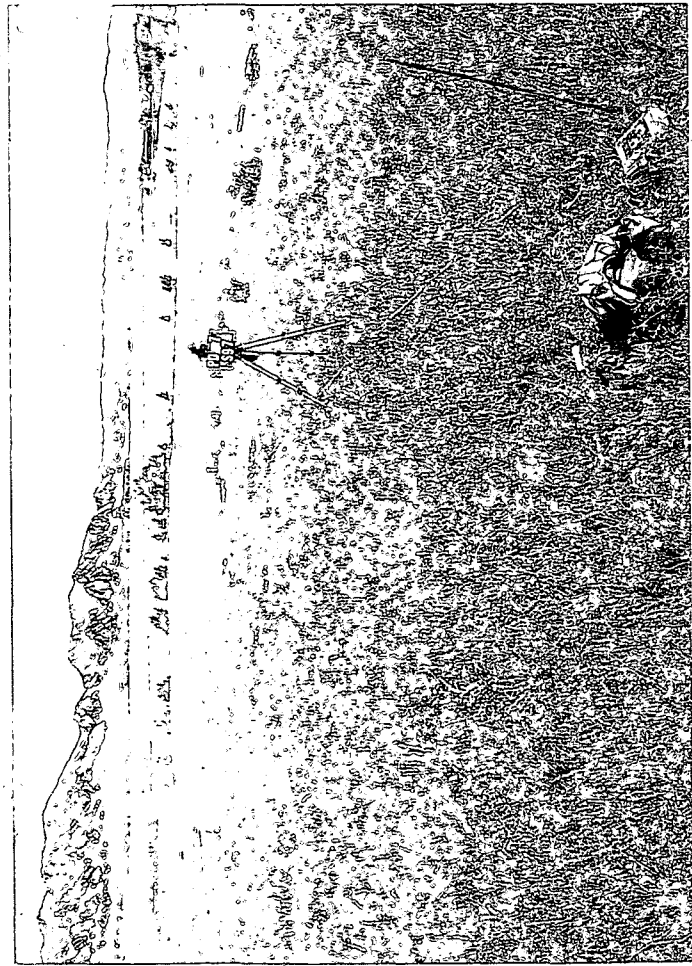
Photograph 4. Prairie Dog Study, Unaffected Sample 4-June '97.



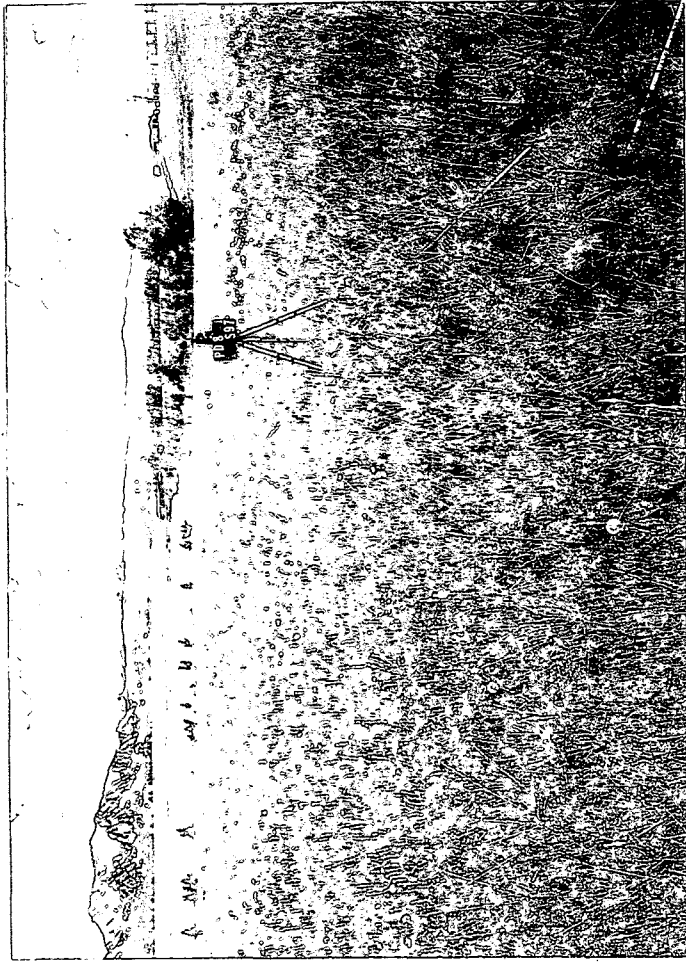
Photograph 5. Prairie Dog Study, Affected Sample 5-June '97.



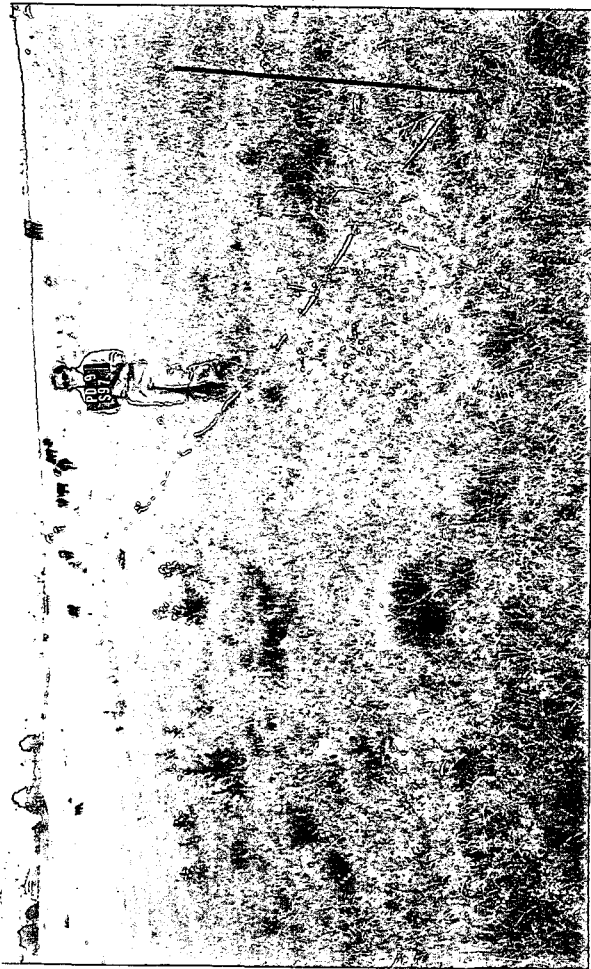
Photograph 6. Prairie Dog Study, Unaffected Sample 6-June '97.



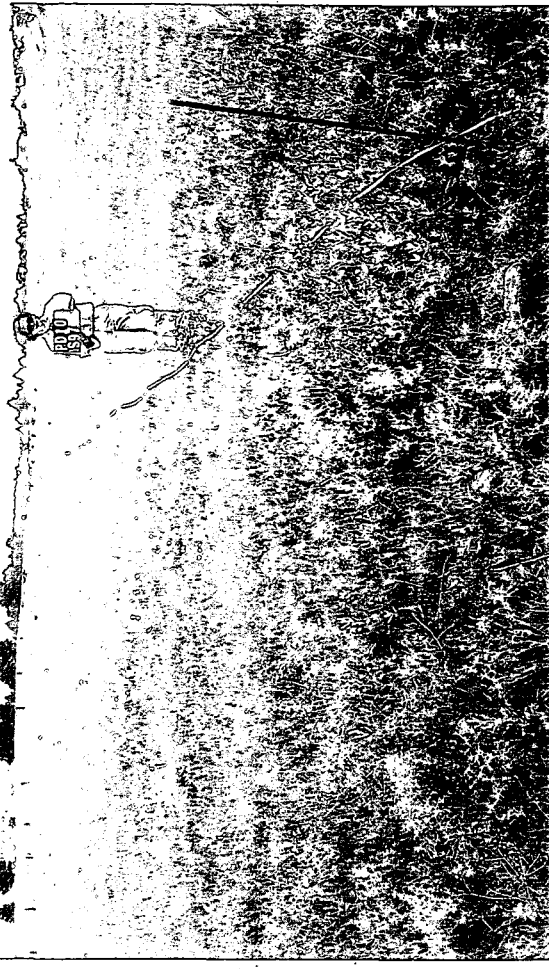
Photograph 7. Prairie Dog Study, Affected Sample 7-June '97.



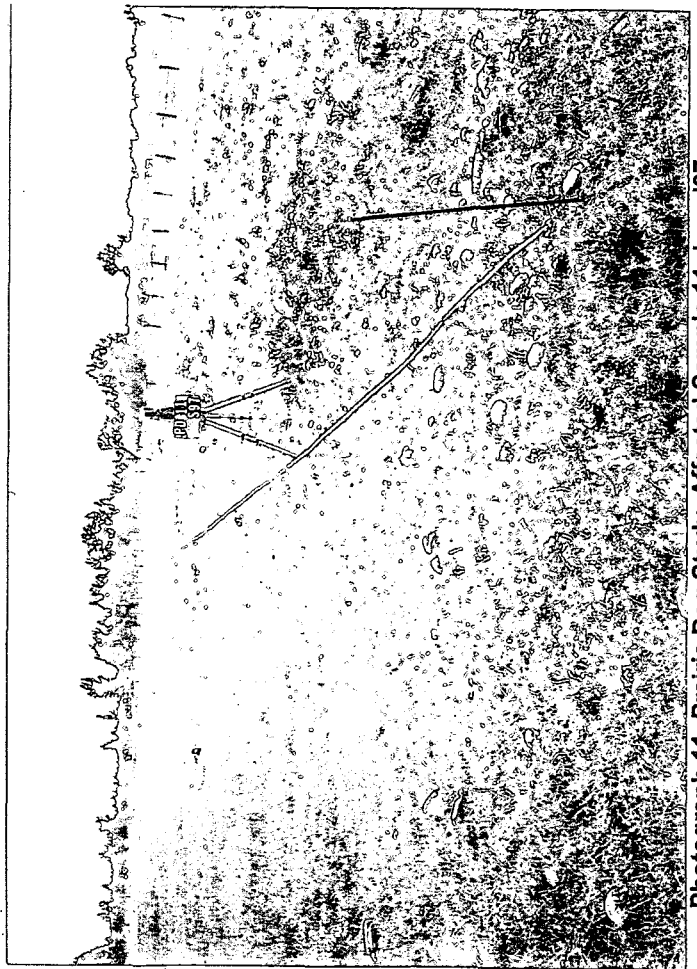
Photograph 8. Prairie Dog Study, Unaffected Sample 8-June '97.



Photograph 9. Prairie Dog Study, Affected Sample 9-June '97.



Photograph 10. Prairie Dog Study, Unaffected Sample 10-June '97.

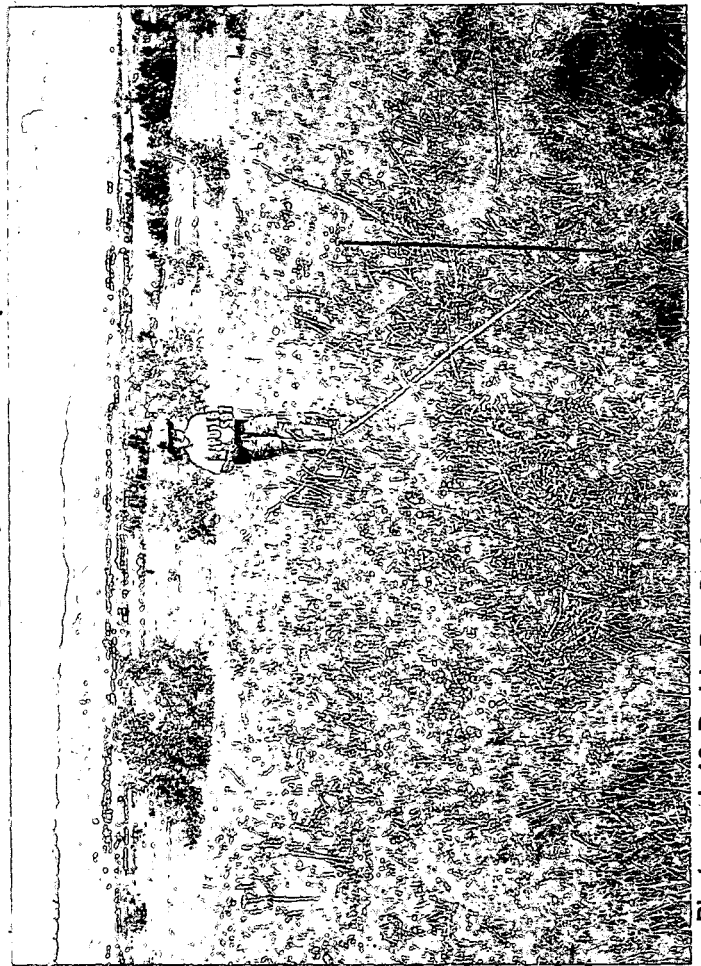


Photograph 11. Prairie Dog Study, Affected Sample 11-June '97.

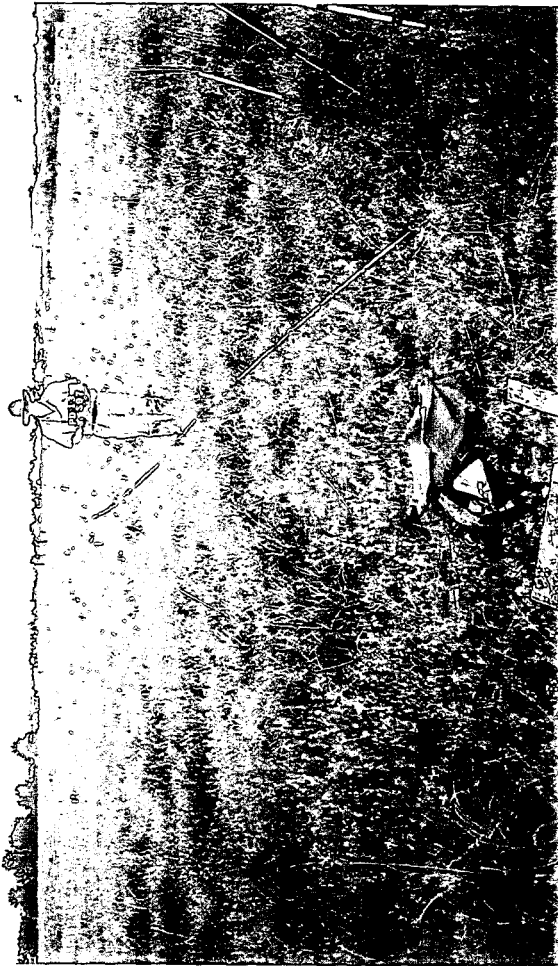
Sample 12 NOT COLLECTED.



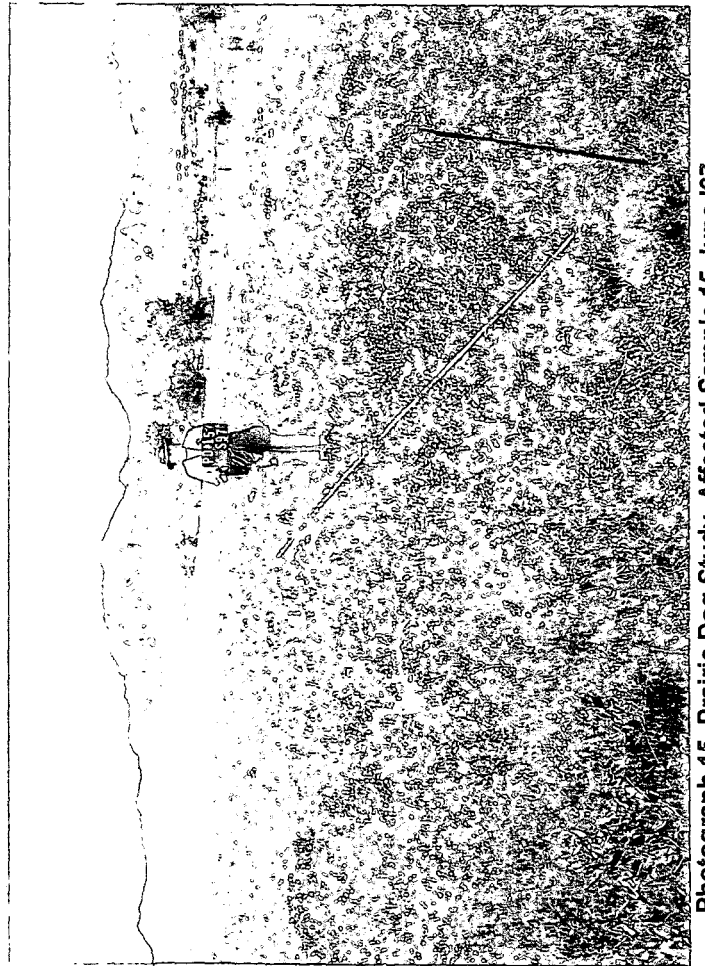
Photograph 14. Prairie Dog Study, Unaffected Sample 14-June '97.



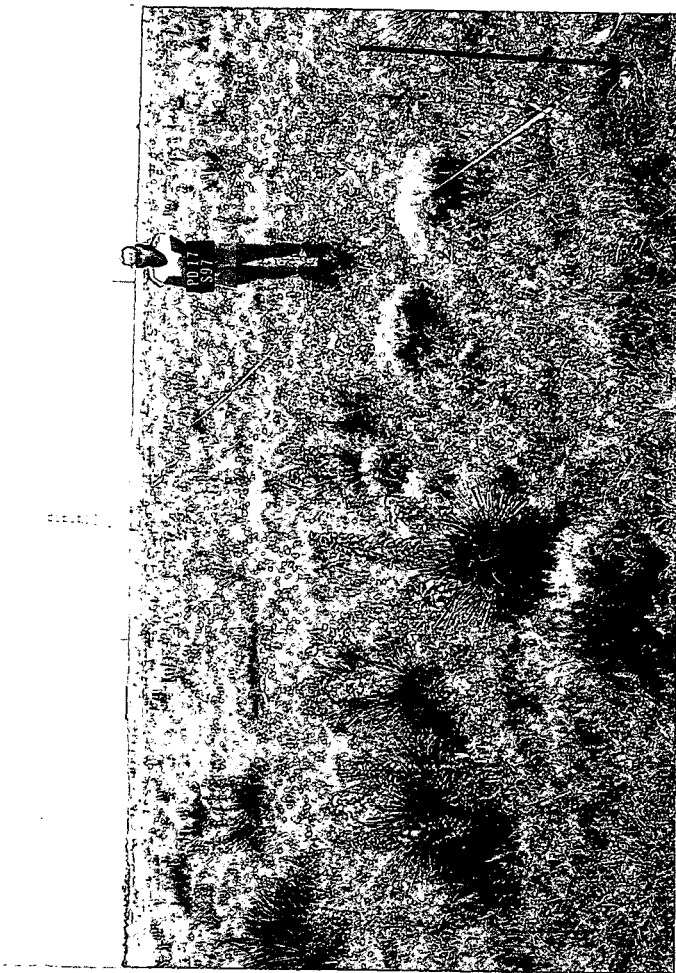
Photograph 16. Prairie Dog Study, Affected Sample 16-June '97.



Photograph 13. Prairie Dog Study, Affected Sample 13-June '97.



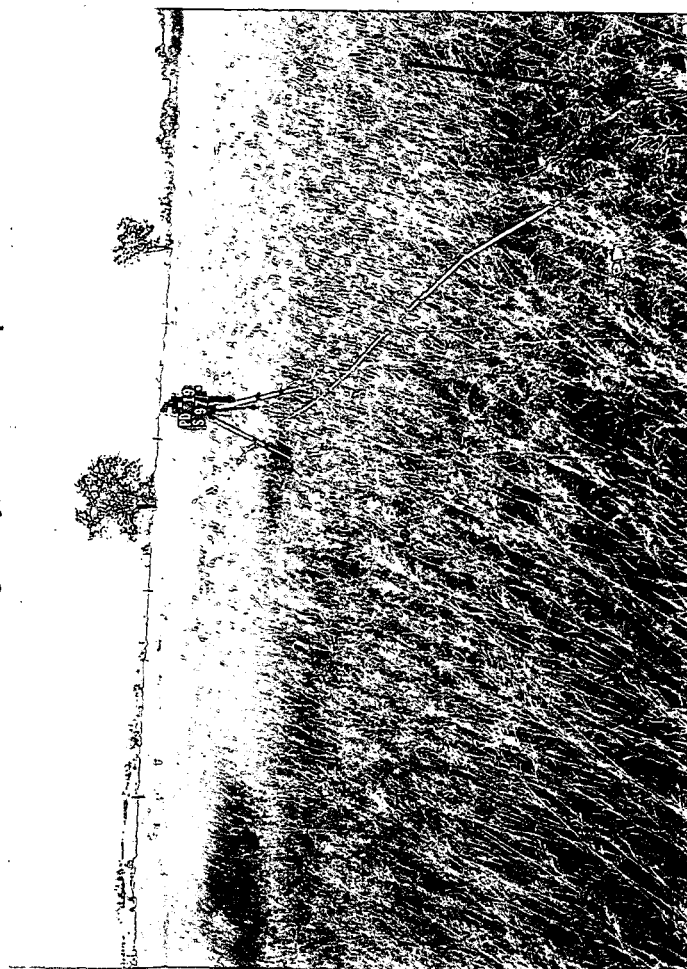
Photograph 15. Prairie Dog Study, Affected Sample 15-June '97.



Photograph 17. Prairie Dog Study, Affected Sample 17-June '97.



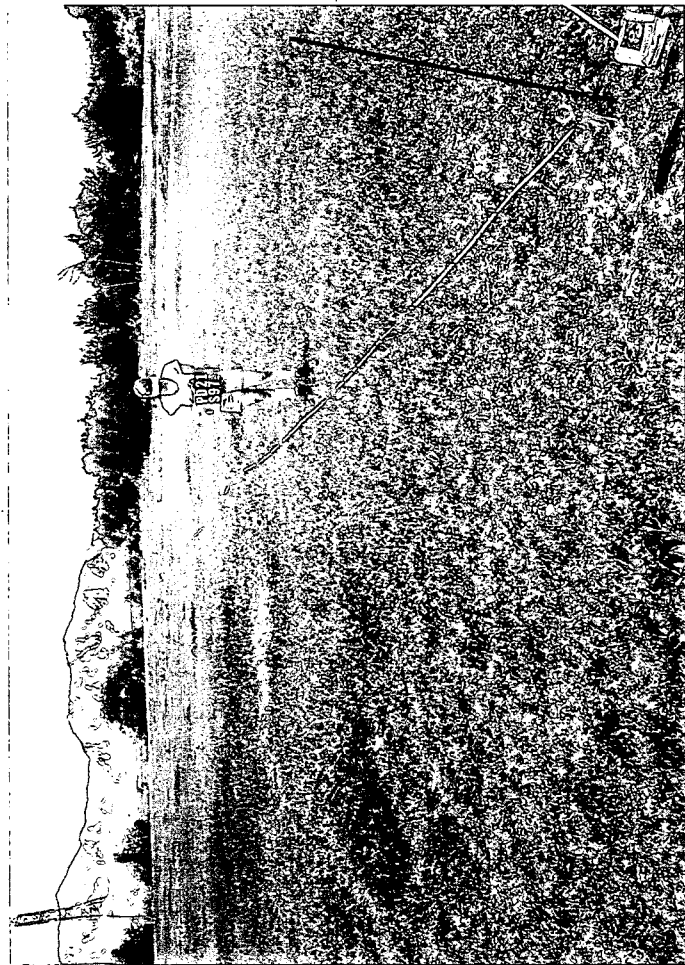
Photograph 18. Prairie Dog Study, Unaffected Sample 18-June '97.



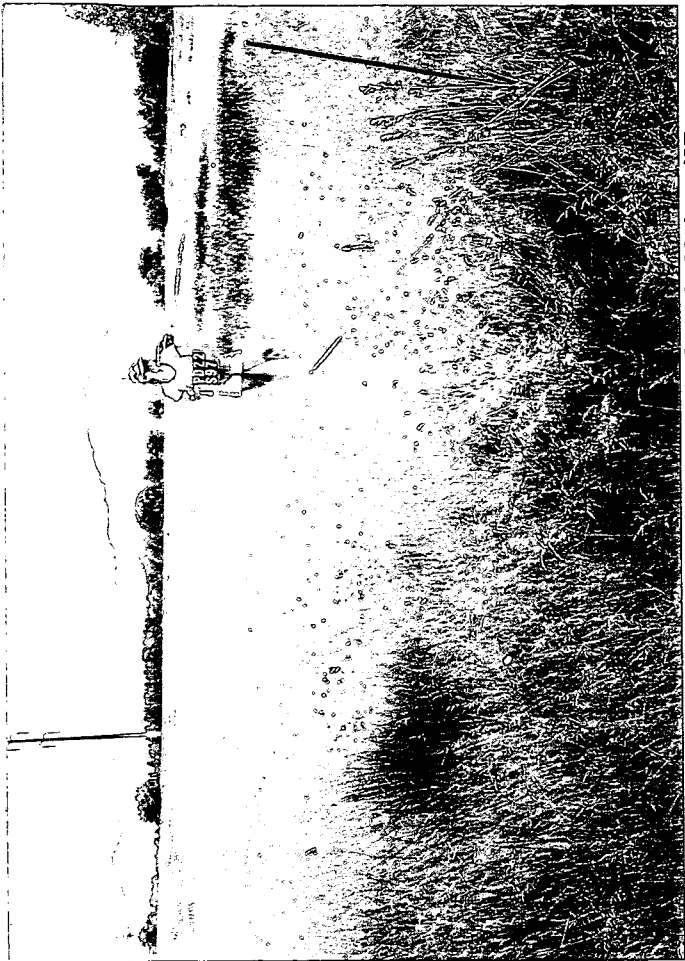
Photograph 19. Prairie Dog Study, Affected Sample 19-June '97.



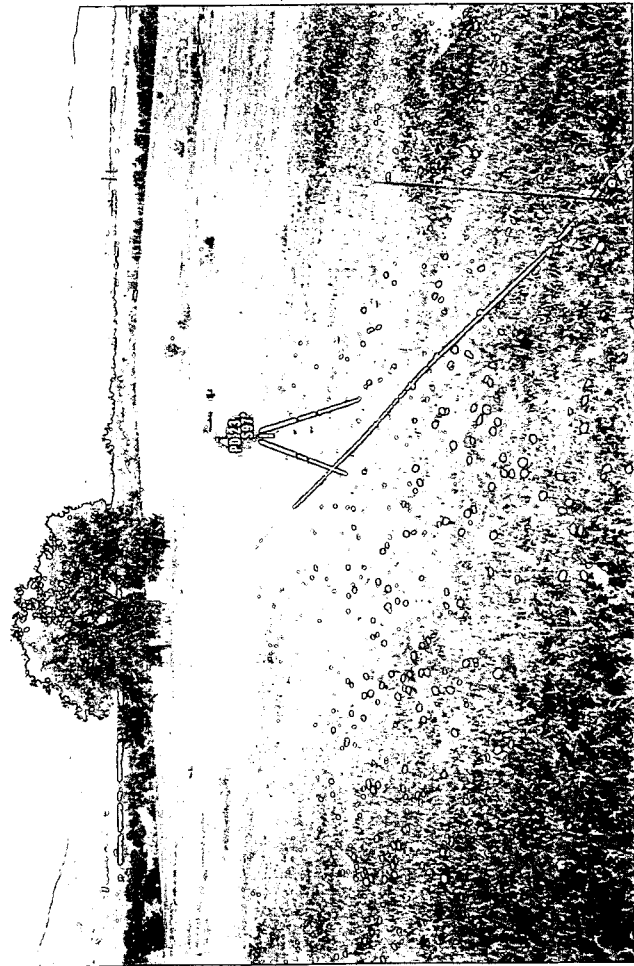
Photograph 20. Prairie Dog Study, Affected Sample 20-June '97.



Photograph 21. Prairie Dog Study, Affected Sample 21-June '97.



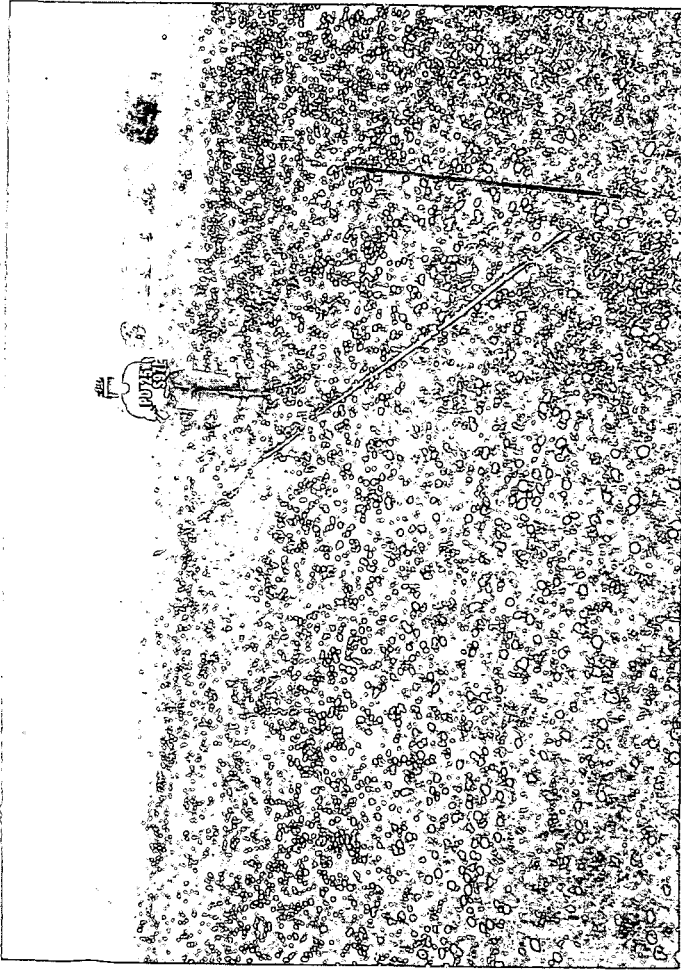
Photograph 22. Prairie Dog Study, Unaffected Sample 22-June '97.



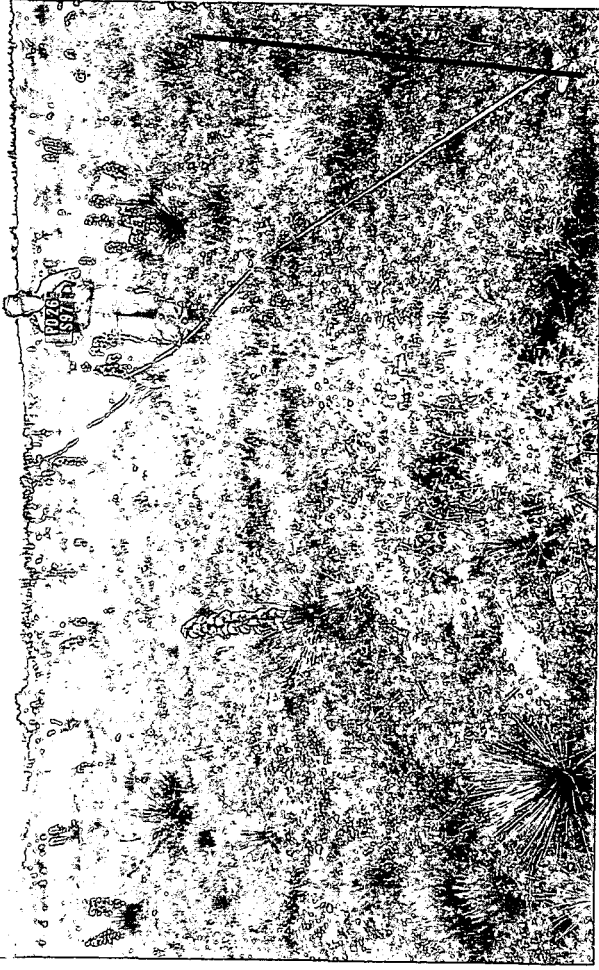
Photograph 23. Prairie Dog Study, Affected Sample 23-June '97.



Photograph 24. Prairie Dog Study, Affected Sample 24-June '97.



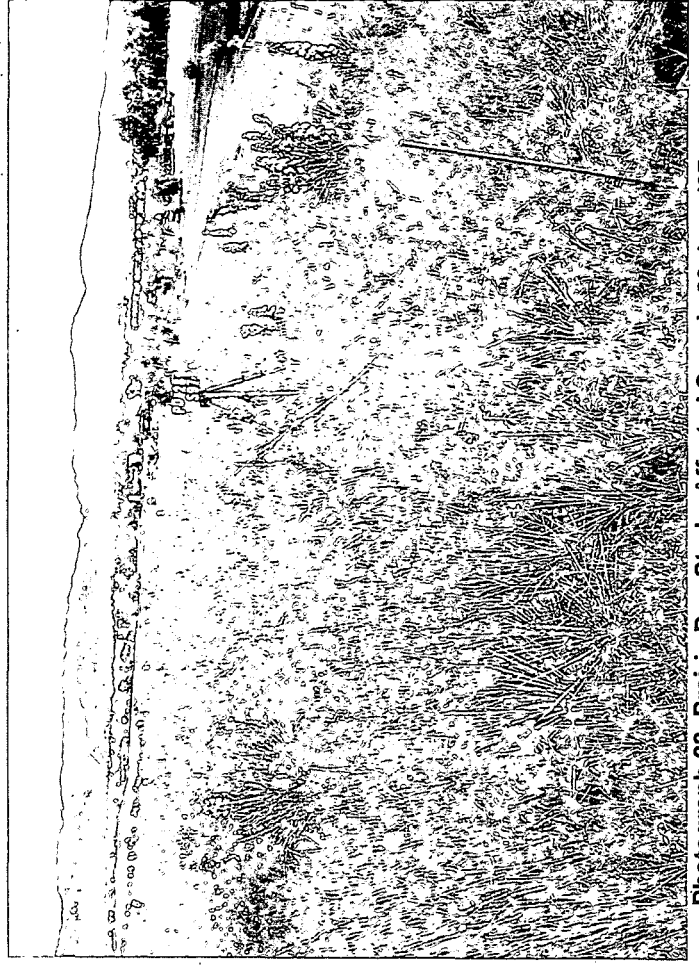
Photograph 25. Prairie Dog Study, Affected Sample 25-June '97.



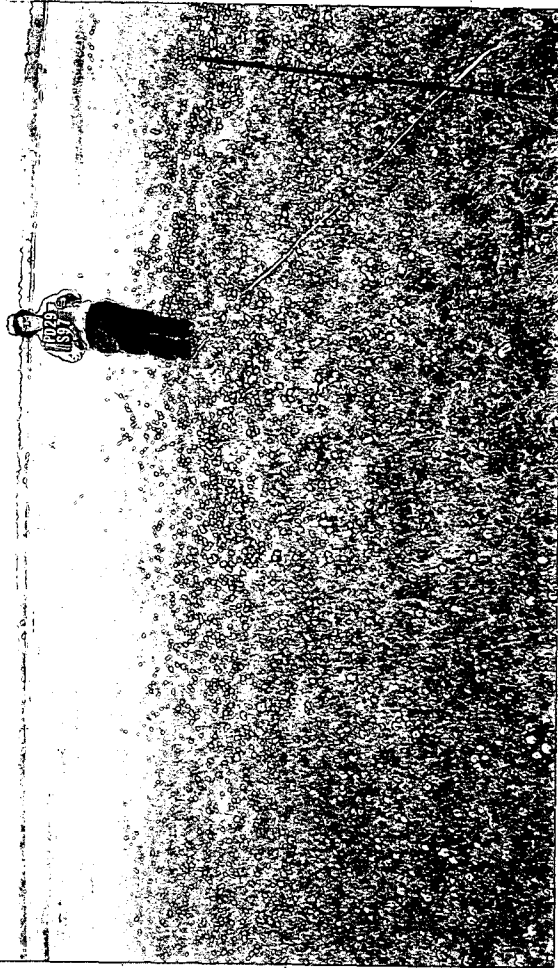
Photograph 26. Prairie Dog Study, Unaffected Sample 26-June '97.



Photograph 27. Prairie Dog Study, Affected Sample 27-June '97.



Photograph 28. Prairie Dog Study, Affected Sample 28-June '97.



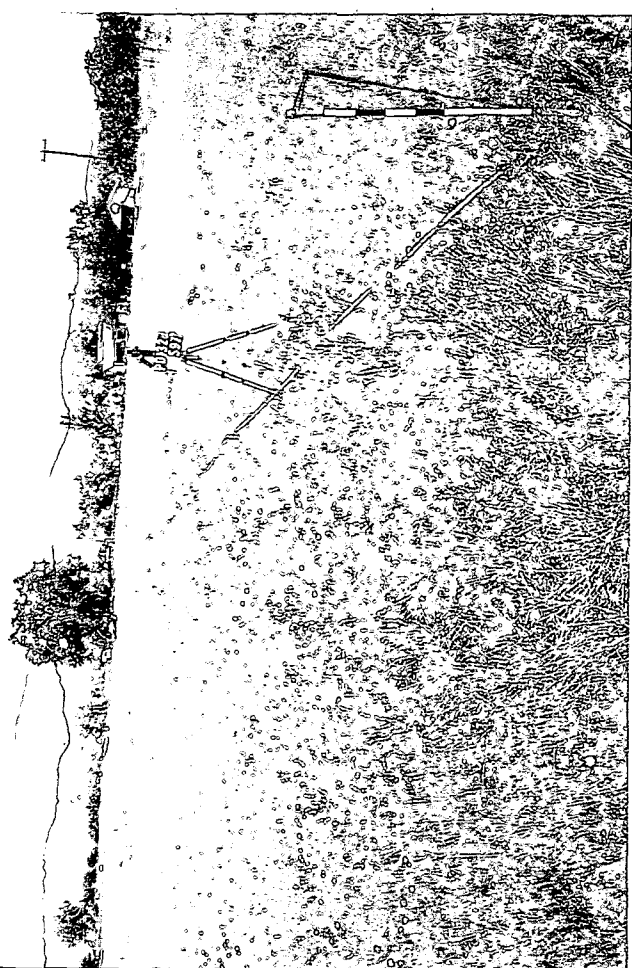
Photograph 29. Prairie Dog Study, Affected Sample 29-June '97.



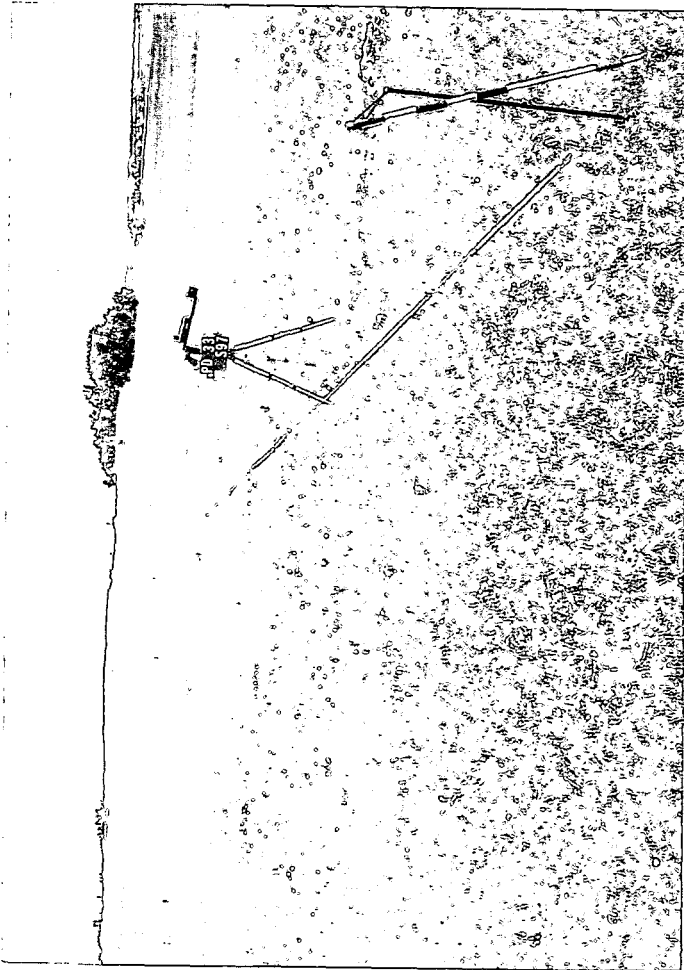
Photograph 30. Prairie Dog Study, Unaffected Sample 30-June '97.



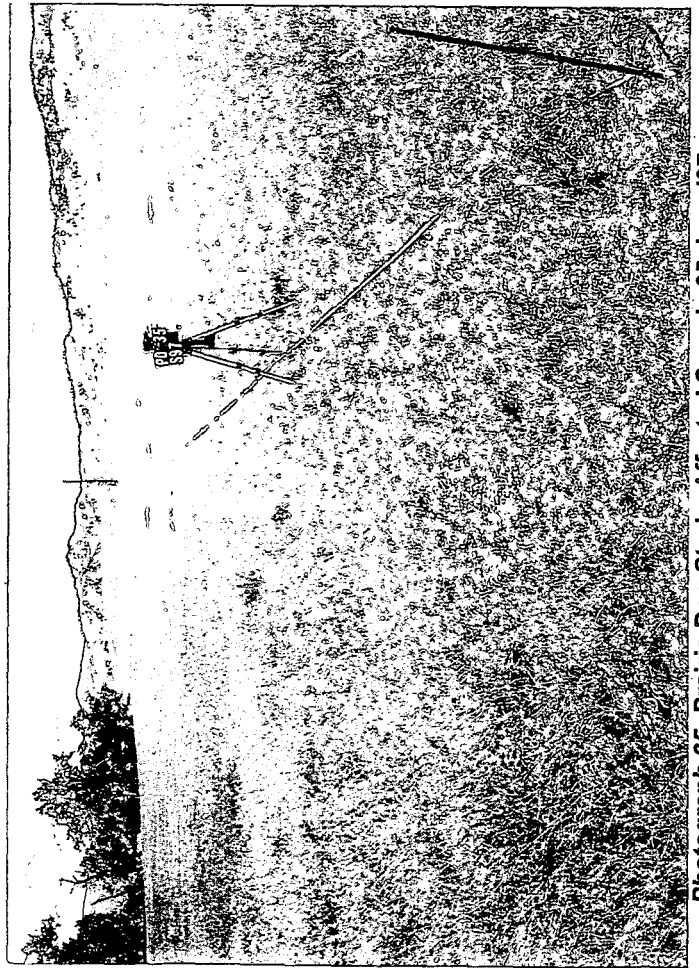
Photograph 31. Prairie Dog Study, Affected Sample 31-June '97.



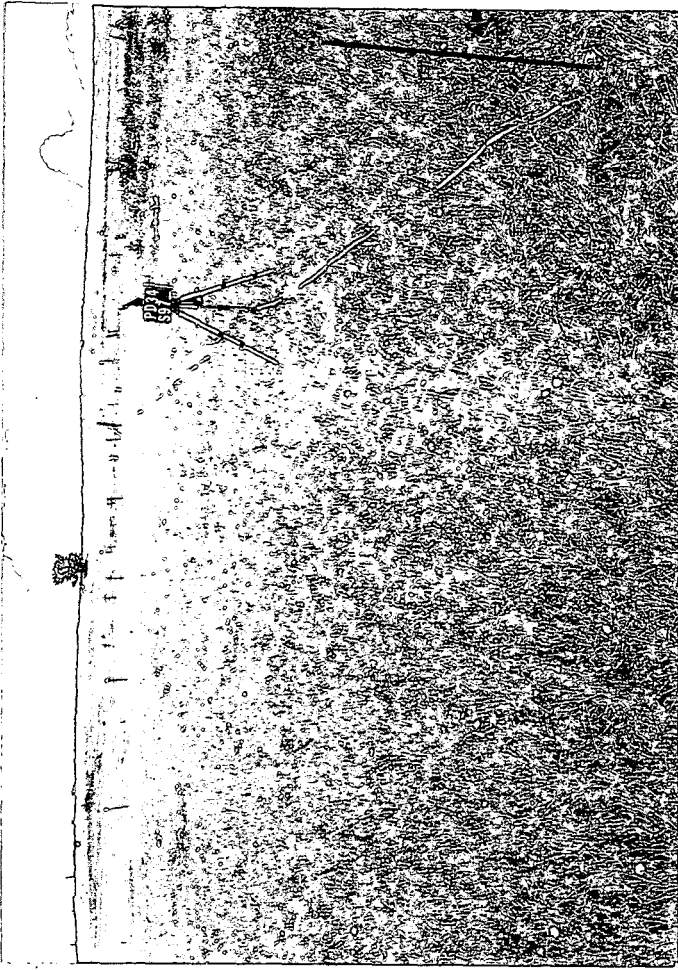
Photograph 32. Prairie Dog Study, Affected Sample 32-June '97.



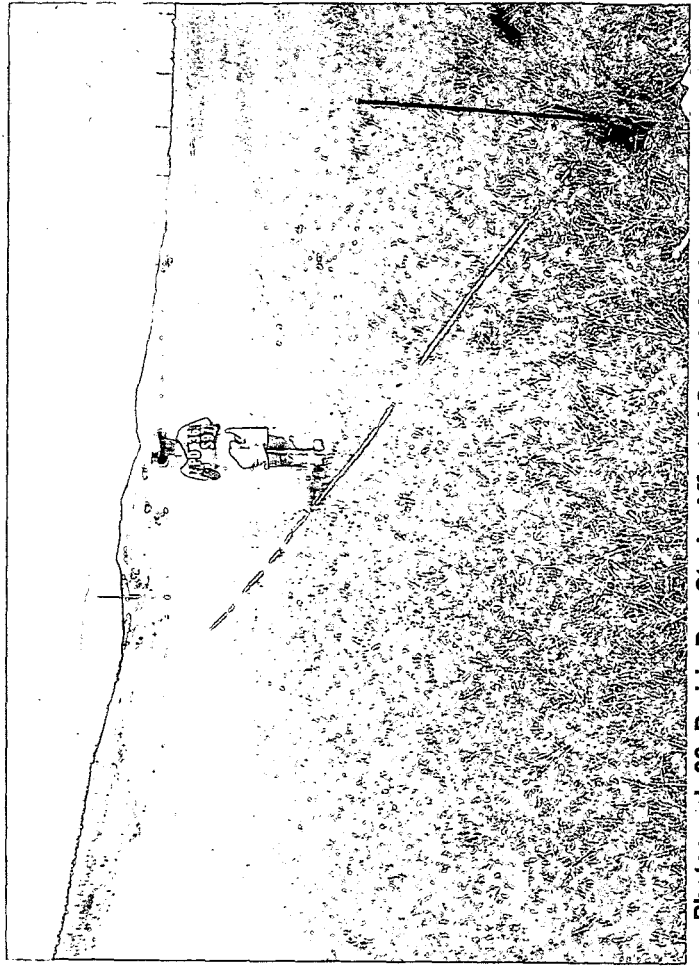
Photograph 33. Prairie Dog Study, Affected Sample 33-June '97.



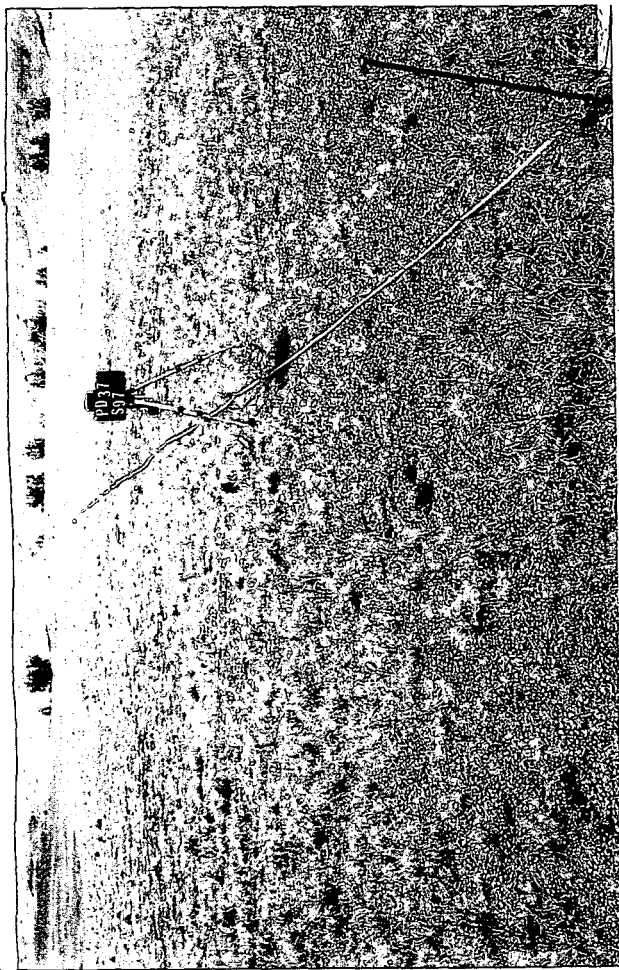
Photograph 35. Prairie Dog Study, Affected Sample 35-June '97.



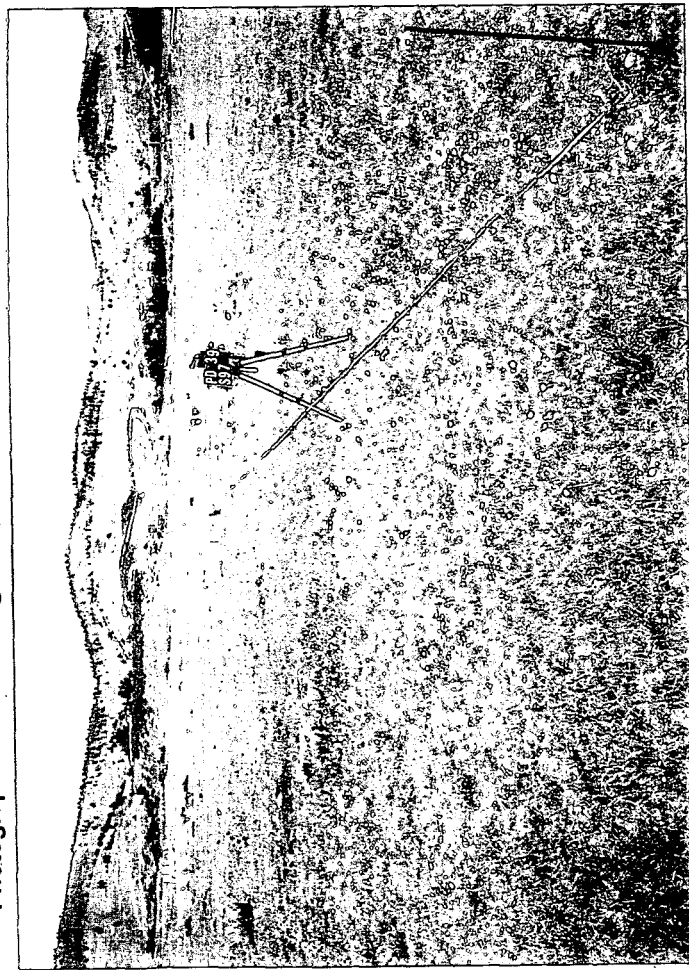
Photograph 34. Prairie Dog Study, Unaffected Sample 34-June '97.



Photograph 36. Prairie Dog Study, Affected Sample 36-June '97.



Photograph 37. Prairie Dog Study, Affected Sample 37-June '97.



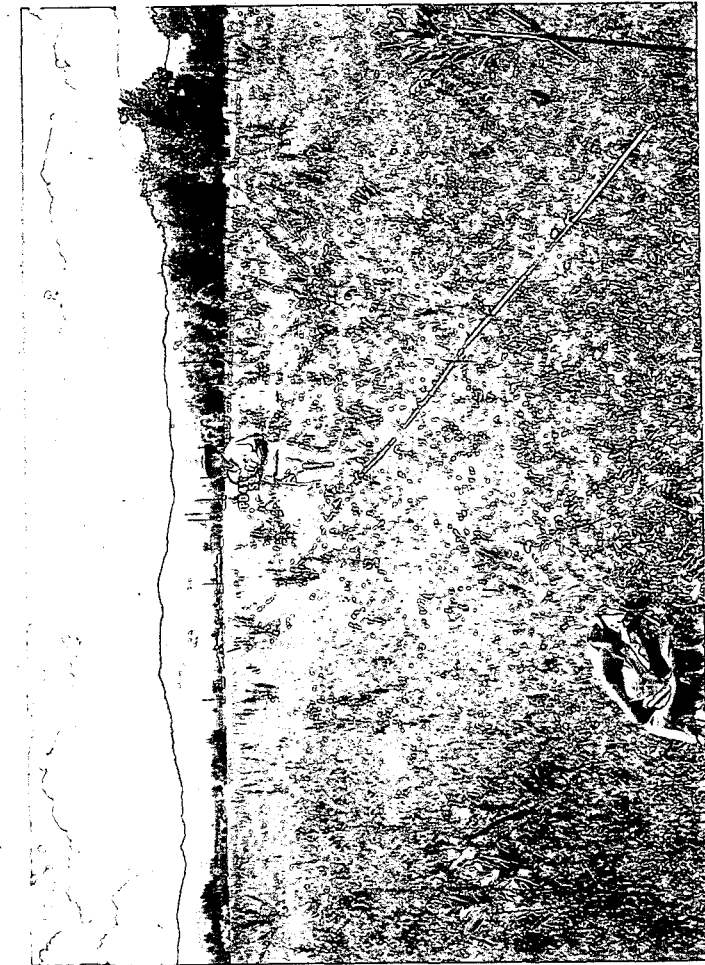
Photograph 39. Prairie Dog Study, Affected Sample 39-June '97.



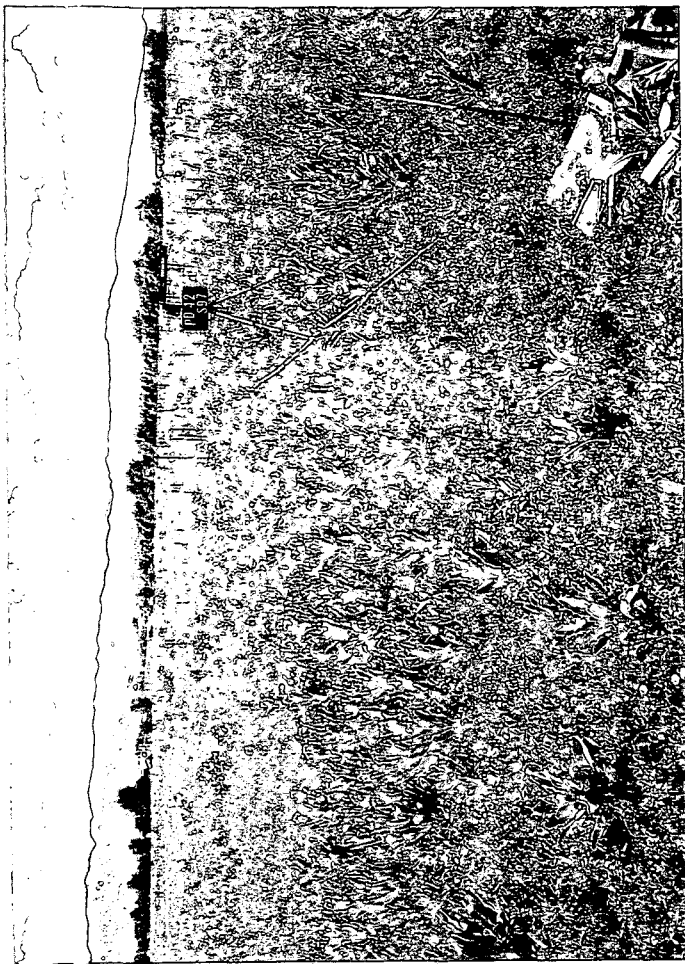
Photograph 38. Prairie Dog Study, Unaffected Sample 38-June '97.



Photograph 40. Prairie Dog Study, Affected Sample 40-June '97.



Photograph 41. Prairie Dog Study, Affected Sample 41-June '97.



Photograph 42. Prairie Dog Study, Unaffected Sample 42-June '97.



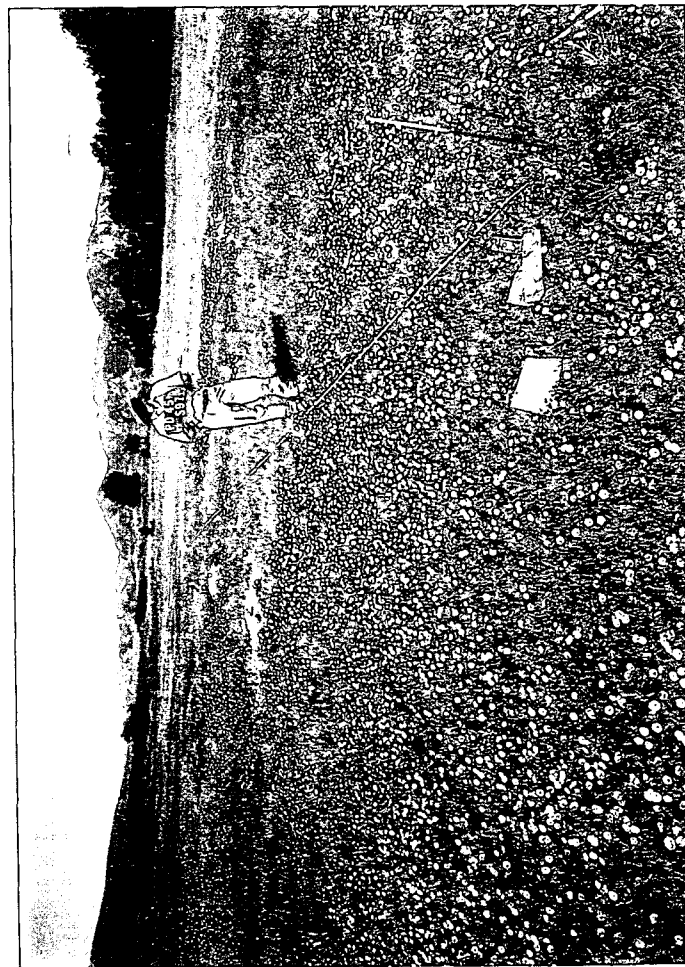
Photograph 43. Prairie Dog Study, Affected Sample 43-June '97.



Photograph 44. Prairie Dog Study, Affected Sample 44-June '97.



Photograph 46. Prairie Dog Study, Affected Sample 46-June '97.



Photograph 45. Prairie Dog Study, Affected Sample 45-June '97.