

Appendix A:
Grassland Ecosystem Management Plan
Nested Target Table

Common name	Scientific Name	ESA	G-Rank	S-Rank	COW	Boulder County	BVCP	OSMP
Mixedgrass Prairie Mosaic								
American badger	<i>Taxidea taxus taxus</i>							SC-2
American elk	<i>Cervus elaphus nelsoni</i>							SC-X
Cross-line Skipper	<i>Polites origenes rhena</i>		G5	S3				SC-2
Ferruginous Hawk	<i>Buteo regalis</i>		G4	S3B,S4N	SC	SC		SC-1
Golden Eagle	<i>Aquila chrysaetos</i>					SC		SC-2
Grasshopper Sparrow	<i>Ammodramus savannarum</i>					SC		SC-2
Lark Bunting	<i>Calamospiza melanocorys</i>					SC		SC-2
Loggerhead Shrike	<i>Lanius ludovicianus</i>					SC		SC-2
Mottled Duskywing	<i>Erynnis martialis</i>		G3G4	S2S3			LC	SC-2
Northern Harrier	<i>Circus cyaneus</i>					SC		SC-2
Ottoo Skipper	<i>Hesperia ottoe</i>		G3G4	S2			LC	SC-1
Plains pocket gopher	<i>Geomys bursarius lutescens</i>							SC-3
Prairie Arogos Skipper	<i>Atrytone arogos iowa</i>		G3	S2			LC	SC-3
Prairie Tiger Beetle	<i>Cicindela nebraskana</i>		G4	S1?				
Savannah Sparrow	<i>Passerculus sandwichensis</i>					SC		SC-3
Short-eared Owl	<i>Asio flammeus</i>					SC	LC	SC-2
Short-horned lizard	<i>Phrynosoma douglassii</i>							SC-3
Swainson's Hawk	<i>Buteo swainsoni</i>					SC		SC-2
Beebalm, Horsemint	<i>Monarda pectinata</i>							Sensitive
Bell's twinpod	<i>Physaria bellii</i>		G2G3	S2S3		RP	LC	
Lilac penstemon	<i>Penstemon gracilis</i>							Sensitive
Silver-leaf scurf pea; SL Wild Alfalfa	<i>Psoralidium argophyllum</i>							Sensitive
Weatherby's spike-moss	<i>Selaginella weatherbiana</i>					RP		Sensitive

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Mixedgrass Prairie Mosaic								
Indian Ricegrass HA	<i>Achnatherum hymenoides</i> HA		NA	NA				
Indian Ricegrass Shale Barren HV *	<i>Achnatherum hymenoides</i> Shale Barren HV		G2	S2				
New Mexico Feathergrass HA	<i>Hesperostipa neomexicana</i> HA		NA	NA				
New Mexico Feathergrass HV	<i>Hesperostipa neomexicana</i> HV		G3	S3		SNC		
Western Wheat HA	<i>Pascopyrum smithii</i> HA		NA	NA				
Western Wheatgrass - Green Needlegrass HV	<i>Pascopyrum smithii</i> - <i>Nassella viridula</i> HV		G3G4	S2				
Western Wheatgrass - Blue Grama HV	<i>Pascopyrum smithii</i> - <i>Bouteloua gracilis</i> HV		G5	S4				
Needle and Thread-Blue Grama HA	<i>Hesperostipa comata</i> - <i>Bouteloua gracilis</i> HA		NA	NA				
Needle-and-Thread - Colorado Front Range HV	<i>Hesperostipa comata</i> Colorado Front Range HV		G1G2	S1S2		SNC		
Little Bluestem - Sideoats Grama HA	<i>Schizachyrium scoparium</i> - <i>Bouteloua curtipendula</i> HA		NA	NA				
Little Bluestem - Sideoats Grama Western Great Plains HV	<i>Schizachyrium scoparium</i> - <i>Bouteloua curtipendula</i> Western Great Plains HV		G3	S1				
Green Needlegrass HA	<i>Nassella viridula</i> HA		NA	NA				
Green Needlegrass HV	<i>Nassella viridula</i> HV		GU	SNR				

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Xeric Tallgrass Mosaic								
American elk	<i>Cervus elaphus nelsoni</i>							SC-X
Cross-line Skipper	<i>Polites origenes rhena</i>		G5	S3				SC-2
Ferruginous Hawk	<i>Buteo regalis</i>		G4	S3B,S4N	SC	SC		SC-1
Golden Eagle	<i>Aquila chrysaetos</i>					SC		SC-2
Grasshopper Sparrow	<i>Ammodramus savannarum</i>					SC		SC-2
Lark Bunting	<i>Calamospiza melanocorys</i>					SC		SC-2
Lark Sparrow	<i>Chondestes grammacus</i>							SC-X
Northern Harrier	<i>Circus cyaneus</i>					SC		SC-2
Ottoo Skipper	<i>Hesperia ottoe</i>		G3G4	S2			LC	SC-1
Prairie Arogos Skipper	<i>Atrytone arogos iowa</i>		G3	S2			LC	SC-3
Prairie Regal Fritillary	<i>Speyeria idalia</i>		G3	S1			LC	SC-1
Short-eared Owl	<i>Asio flammeus</i>					SC	LC	SC-2
Swainson's Hawk	<i>Buteo swainsoni</i>					SC		SC-2
Ball cactus	<i>Pediocactus simpsonii</i>							Sensitive
Birdfoot violet, prairie violet	<i>Viola pedatifida</i>		G5	S2			LC	
Dwarf leadplant, Dwarf indigo bush	<i>Amorpha nana</i>		G5	S2S3		RP	LC	
Grassyslope sedge	<i>Carex oreocharis</i>		G3	S1				
Narrow-leaved Milkweed	<i>Asclepias stenophylla</i>		G4G5	S2				
Porcupine grass	<i>Hesperostipa spartea</i>							Sensitive
Prairie dropseed	<i>Sporobolus heterolepis</i>							Sensitive
Silver-leaf scurf pea; SL Wild Alfalfa	<i>Psoraleidum argophyllum</i>							Sensitive
Weatherby's spike-moss	<i>Selaginella weatherbiana</i>					RP		Sensitive

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Xeric Tallgrass Mosaic								
Xeric components of the Big Bluestem - (Yellow Indiangrass) HA			NA	NA		SNC		
Big-Bluestem - Little Bluestem Western Great Plains HV	<i>Andropogon gerardii</i> - <i>Schizachyrium scoparium</i> Western Great Plains HV		G2?	S2		SNC		
Great Plains HV	<i>heterolepis</i> Western Foothills HV		G2?	S1S2		SNC		
Pinus ponderosa Wooded Tall HA								
Tallgrass Tree Savannah HV	Xeric Tallgrass Tree Savannah HV		NA	NA				Sensitive
Ponderosa Pine / Mountain-mahogany / Big Bluestem Wooded Herbaceous Vegetation	<i>Pinus ponderosa</i> / <i>Cercocarpus montanus</i> / <i>Andropogon gerardii</i> Wooded HV		G2	S2?				
Soapweed Yucca Shrub Savannah HA								
Yucca / Big Bluestem Xeric Tallgrass Shrub Savannah	<i>Yucca glauca</i> / <i>Andropogon gerardii</i> Xeric Tallgrass Shrub Savannah		NA	NA				Sensitive

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Plains/Foothills Transitional Riparian								
American elk	<i>Cervus elaphus nelsoni</i>							SC-X
American Redstart	<i>Setophaga ruticilla</i>					SC	LC	SC-2
Bald Eagle	<i>Haliaeetus leucocephalus</i>		G5	S1B,S3N	T		LC	SC-1
Black bear	<i>Ursus americanus amblyceps</i>							SC-1
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>					SC		SC-2
Brassy minnow	<i>Hybognathus hankinsoni</i>				T			SC-1
Brown Thrasher	<i>Toxostoma rufum</i>					SC		SC-2
Common garter snake	<i>Thamnophis sirtalis parietalis</i>		G5S3			SC		SC-2
Common shiner	<i>Luxilus cornutus</i>				T		LC	SC-1
Cylindrical papershell	<i>Anodontoides ferussacianus</i>		G5	S2	SC		LC	SC-2
Fringed myotis	<i>Myotis thysanodes thysanodes</i>		G4G5	S3				SC-2
Gray Catbird	<i>Dumetella carolinensis</i>					SC		SC-3
Great Blue Heron	<i>Ardea herodias</i>					SC		SC-2
Hops Azure	<i>Celestrina humulus</i>		G2G3	S2			LC	SC-1
Lark Sparrow	<i>Chondestes grammacus</i>							SC-X
Lazuli Bunting	<i>Passerina amoena</i>							SC-3
Lewis's Woodpecker	<i>Melanerpes lewis</i>		G4	S4		SC		SC-2
Mottled Duskywing	<i>Erynnis martialis</i>		G3G4	S2S3			LC	SC-2
Mountain lion	<i>Felis concolor hippolestes</i>							SC-1
Northern leopard frog	<i>Rana pipiens</i>		G5	S3	SC			SC-1
Northern redbelly dace	<i>Phoxinus eos</i>		G5	S1	E		LC	SC-1
Olive-sided Flycatcher	<i>Contopus cooperii</i>					SC		SC-2
Plains topminnow	<i>Fundulus sciadicus</i>						LC	SC-2
Preble's Meadow jumping mouse	<i>Zapus hudsonius preblei</i>	LT	G5T2	S1	T		LC	SC-1
Snowy Egret	<i>Egretta thula</i>		G5	S2B				
Spiny softshell	<i>Apalone spinifera hartwegi</i>							SC-3
Two-spotted Skipper	<i>Euphyes bimacula</i>		G4	S2			LC	SC-2
Umbillicate Sprite	<i>Promenetus umbilicatellus</i>							SC-2
Willow Flycatcher	<i>Empidonax traillii</i>					SC		SC-2
Wood Duck	<i>Aix sponsa</i>					SC		SC-3
Yellow Warbler	<i>Dendroica petechia</i>							SC-X
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>					SC		SC-2

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American Groundnut	<i>Apios americana</i>		G5	S1		RP	LC	
Carrionflower	<i>Smilax lasioneuron</i>							Sensitive
Chaffweed	<i>Centunculus minimus</i>		G5	S1			LC	
Colorado butterfly plant	<i>Gaura neomexicana</i>	LT	G3T22	S1			LC	
Oceanspray, Rock Spirea	<i>Holodiscus discolor</i>							Sensitive
Pondweed	<i>Potamogeton diversifolius</i>		G5	S1				
Ute lady's tresses	<i>Spiranthes diluvialis</i>	LT	G2	S2		RP	LC	
Wild hops	<i>Humulus lupulus</i>							Sensitive
Plains Riparian Woodland/Forest			NA	NA				
Narrowleaved Cottonwood / Bluestem Willow Woodland	<i>Populus angustifolia</i> / <i>Salix irrorata</i> Woodland		G2	S2				
Plains Cottonwood - (Peachleaf Willow) / Coyote Willow Woodland	<i>Populus deltoides</i> - (<i>Salix amygdaloides</i>) / <i>Salix (exigua, interior)</i> Woodland		G3G4	S3				
Foothills Riparian Shrubland								
Skunkbush Intermittently Flooded Shrubland	<i>Rhus trilobata</i> Intermittently Flooded Shrubland		G2G3	S2				

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Wetlands								
American Bittern	<i>Botaurus lentiginosus</i>					SC		SC-1
American elk	<i>Cervus elaphus nelsoni</i>							SC-X
American White Pelican	<i>Pelecanus erythrorhynchos</i>		G3	S1B				
Black-necked Stilt	<i>Himantopus mexicanus</i>		G5	S3B				
Bobolink	<i>Dolichonyx oryzivorus</i>		G5	S3B		SC		SC-2
Common garter snake	<i>Thamnophis sirtalis parietalis</i>		G5S3		SC			SC-2
Dickcissel	<i>Spiza americana</i>							SC-3
Eared Grebe	<i>Podiceps nigricollis</i>					SC		SC-2
Least Bittern	<i>Ixobrychus exilis</i>					SC		SC-2
Northern Harrier	<i>Circus cyaneus</i>					SC		SC-2
Northern leopard frog	<i>Rana pipiens</i>		G5	S3	SC			SC-1
Osprey	<i>Pandion haliaetus</i>					SC		SC-2
Prairie Arogos Skipper	<i>Atrytone arogos iowa</i>		G3	S2			LC	SC-3
Prairie Regal Fritillary	<i>Speyeria idalia</i>		G3	S1			LC	SC-1
Sharp sprite	<i>Promenetus exacuvus</i>		G5	S2			LC	SC-2
Short-eared Owl	<i>Asio flammeus</i>					SC	LC	SC-2
Two-spotted Skipper	<i>Euphyes bimacula</i>		G4	S2			LC	SC-2
Wilson's Phalarope	<i>Phalaropus tricolor</i>		G5	S4B,S4N				
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>					SC		SC-2
Checker mallow	<i>Sidalcea neomexicana</i>							Sensitive
Colorado butterfly plant	<i>Gaura neomexicana</i>	LT	G3T22	S1			LC	
Oceanspray, Rock Spirea	<i>Holodiscus discolor</i>							Sensitive
Toothcup	<i>Rotala ramosior</i>		G5	S1			LC	
Tulip gentian, Showy prairie gentian	<i>Eustoma grandiflorum</i>					RP		Sensitive
Ute lady's tresses	<i>Spiranthes diluvialis</i>	LT	G2	S2		RP	LC	
Wild hops	<i>Humulus lupulus</i>							Sensitive
Nebraska Sedge HV	<i>Carex nebrascensis</i> HV		G4	S3				
Clustered Sedge HV	<i>Carex praegracilis</i> HV		G3G4	S2				
Ameican Mannagrass HV	<i>Glyceria grandis</i> HV		G2?	S2				
Western Snowberry Shrubland	<i>Symphoricarpos occidentalis</i> Shrubland		G4G5	S3				
Mesic Tallgrass								
Prairie Cordgrass Western Herbaceous Vegetation	<i>Spartina pectinata</i> Western HV		G3?	S3				

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Mesic Bluestem Prairie								
American elk	<i>Cervus elaphus nelsoni</i>							SC-X
Bobolink	<i>Dolichonyx oryzivorus</i>		G5	S3B		SC		SC-2
Common garter snake	<i>Thamnophis sirtalis parietalis</i>		G5S3		SC			SC-2
Dickcissel	<i>Spiza americana</i>							SC-3
Northern Harrier	<i>Circus cyaneus</i>					SC		SC-2
Prairie Arogos Skipper	<i>Atrytone arogos iowa</i>		G3	S2			LC	SC-3
Prairie Regal Fritillary	<i>Speyeria idalia</i>		G3	S1			LC	SC-1
Short-eared Owl	<i>Asio flammeus</i>					SC	LC	SC-2
Wilson's Phalarope	<i>Phalaropus tricolor</i>		G5	S4B,S4N				
Ute lady's tresses	<i>Spiranthes diluvialis</i>	LT	G2	S2		RP	LC	
Big Bluestem - Yellow Indiangrass Western Great Plains Herbaceous Vegetation	<i>Andropogon gerardii</i> - <i>Sorghastrum nutans</i> Western Great Plains HV		G2	S1S2				

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Common name	Scientific Name	ESA	G-Rank	S-Rank	COW	Boulder County	BVCP	OSMP
Black-tailed Prairie Dog and Associated Community								
American badger	<i>Taxidea taxus taxus</i>							SC-2
Bald Eagle	<i>Haliaeetus leucocephalus</i>		G5	S1B,S3N	T		LC	SC-1
Black-tailed prairie dog	<i>Cynomys ludovicianus ludovicianus</i>		G4	S3	SC		LC	SC-1
Burrowing Owl	<i>Athene cunicularia</i>		G4	S4B	T	SC	LC	SC-1
Ferruginous Hawk	<i>Buteo regalis</i>		G4	S3B,S4N	SC	SC		SC-1
Golden Eagle	<i>Aquila chrysaetos</i>					SC		SC-2
Northern Harrier	<i>Circus cyaneus</i>					SC		SC-2
Prairie Tiger Beetle	<i>Cicindela nebraskana</i>		G4	S1?				
Rough-legged Hawk	<i>Buteo lagopus</i>							SC-X
White Rock Cliffs								
Barn Owl	<i>Tyto alba</i>					SC		SC-3
Long-eared Owl	<i>Asio otus</i>					SC		SC-2
Six-lined racerunner	<i>Cnemidophorus sexlineatus viridis</i>							SC-3
American Groundnut	<i>Apios americana</i>		G5	S1		RP	LC	
Beebalm (Horsemint)	<i>Monarda pectinata</i>							Sensitive
Forktip Three-awn	<i>Aristida basiramea</i>		G5	S1		RP	LC	
Spleenwort	<i>Asplenium adiantum-nigrum</i>		G5	S1		RP	LC	
Agricultural Operations								
Bobolink	<i>Dolichonyx oryzivorus</i>		G5	S3B		SC		SC-2
Dickcissel	<i>Spiza americana</i>							SC-3
Grasshopper Sparrow	<i>Ammodramus savannarum</i>					SC		SC-2
Lark Sparrow	<i>Chondestes grammacus</i>							SC-X
Northern Harrier	<i>Circus cyaneus</i>					SC		SC-2
Savannah Sparrow	<i>Passerculus sandwichensis</i>					SC		SC-3
Swainson's Hawk	<i>Buteo swainsoni</i>					SC		SC-2
Toothcup	<i>Rotala ramosior</i>		G5	S1			LC	
American Groundnut	<i>Apios americana</i>		G5	S1		RP	LC	
Tulip gentian, Showy prairie gentian	<i>Eustoma grandiflorum</i>					RP		Sensitive
Wild hops	<i>Humulus lupulus</i>							Sensitive
Ute lady's tresses	<i>Spiranthes diluvialis</i>	LT	G2	S2		RP	LC	
Semi-native Irrigated Meadows			NA	NA				Sensitive

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Key to Abbreviations used in Attachments

ESA = US Endangered Species Act

LE-Listed Endangered

LT-Listed Threatened

G-Rank: Global Rank S-Rank: Colorado Rank

NatureServe/Heritage Program Imperilment Ranks

1-Critically Imperiled

2- Imperiled

3- Rare or Uncommon

4-Widespread/Abundant

5-Secure

CDOW=Status from Colorado Division of Wildlife Species of Concern List

E-Endangered

T-Threatened

SC-Special Concern

Boulder County = Boulder County and Boulder County Nature Association Rare Plants and Significant Natural Communities and Bird Species of Concern

RP-Rare Plant

SC-Special Concern

SNC-Significant Natural Community

BVCP = Plant and Animals Species of Local Concern in the Boulder Valley

LC-Local Concern

OSMP = Open Space and Mountain Parks Species of Concern

SC-1 Special Concern Priority 1 (animal)

SC-2 Special Concern Priority 2 (animal)

SC-3 Special Concern Priority 3 (animal)

Sensitive Sensitive Plant Species