

Appendix G

Plant Species Found within the Upton Permit Area and Presence in Vegetation Communities

Plant Species Found Within the Upton Permit Area and Their Presence in Vegetation Communities

Common Name	Scientific Name	Vegetation Community (see Notes)																	
		Mixed Shrubland			Greasewood Shrubland			Big Sagebrush Shrubland			Upland Grassland			Meadow Grassland			Reclaimed Grassland		
		Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover
Native Annual Grasses																			
American sloughgrass	<i>Beckmannia syzigachne</i>													X		0.64			
Introduced Annual Grasses																			
Japanese brome ¹	<i>Bromus japonicus</i>	X ²			X		0.48	X		0.46	X		0.10	X		0.16	X		0.24
Native Cool Season Perennial Grasses																			
Indian ricegrass	<i>Achnatherum hymenoides</i>							X		0.20							X ²		
Basin wildrye	<i>Elymus cinereus</i>				X ²														
Thickspike wheatgrass	<i>Elymus lanceolatus</i>				X		0.21							X		0.32	X ²		
Western wheatgrass	<i>Elymus smithii</i>	X	3	6.80	X	3	10.21	X	2	10.30	X	2	3.00	X	1	20.48	X	1	22.56
Bluebunch wheatgrass	<i>Elymus spicatus</i>				X		0.07							X		0.48	X	3	1.92
Needleandthread	<i>Hesperostipa comata</i>				X ²			X		1.90	X		0.20				X ²		
Foxtail barley	<i>Hordeum jubatum</i>				X ²									X		2.48			
Prairie junegrass	<i>Koeleria macrantha</i>	X		3.80	X		0.76	X		1.85	X	5	0.40				X	5	0.88
Alkali muhly	<i>Muhlenbergia asperifolia</i>													X		0.24			
Green needlegrass	<i>Nassella viridula</i>	X	4	4.70	X		1.10	X	5	2.46	X		0.20				X		0.24
Alkali bluegrass	<i>Poa juncifolia</i>													X ²					
Sandberg bluegrass	<i>Poa secunda</i>	X	5	3.90	X	4	5.03	X	4	3.03	X	3	2.90	X		0.16	X	4	0.88
Alkaligrass	<i>Puccinellia nuttalliana</i>													X		0.88			
Native Warm Season Perennial Grasses																			
Blue grama	<i>Bouteloua gracilis</i>	X		0.20	X ²			X		0.98	X ²								
Prairie sandreed	<i>Calamovilfa longifolia</i>	X		0.60	X		0.48	X ²			X	4	1.00	X		2.24	X		0.08
Inland saltgrass	<i>Distichlis stricta</i>													X ²					
Little bluestem	<i>Schizachyrium scoparium</i>										X		0.20						
Prairie cordgrass	<i>Spartina pectinata</i>				X		0.07							X	2	12.88	X ²		
Alkali sacaton	<i>Sporobolus airoides</i>				X ²			X		0.10	X		0.30	X		0.08	X		0.64
Sand dropseed	<i>Sporobolus cryptandrus</i>																X		0.24
Introduced Perennial Grasses																			
Crested wheatgrass	<i>Agropyron cristatum</i>	X	1	12.00	X	1	26.49	X	3	7.95	X	1	38.70	X		0.08	X	2	7.28
Smooth brome	<i>Bromus inermis</i>	X		0.60	X		0.55	X		0.36	X		0.30	X		0.08	X		0.48
Intermediate wheatgrass	<i>Elymus hispidus</i>																X ²		
Timothy	<i>Phleum pratense</i>				X		0.07	X		0.05				X		0.32			
Kentucky bluegrass	<i>Poa pratensis</i>				X		0.48	X		0.36				X	3	8.16			
Native Grasslike Species																			
Threadleaf sedge	<i>Carex filifolia</i>	X		0.30	X		0.14	X		2.15									
Nebraska sedge	<i>Carex nebrascensis</i>													X	5	2.96			
Clustered field sedge	<i>Carex praegracilis</i>													X		0.08			
Common spikerush	<i>Eleocharis palustris</i>													X	4	4.40			
Mountain rush	<i>Juncus balticus</i>													X		0.32			
Inland rush	<i>Juncus interior</i>													X		0.08			
Native Annual Forbs																			
Silverscale saltbush	<i>Atriplex argentea</i>																X ²		

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		Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover	Present	Rank	Absolute % Cover
Suckley's endolepis	<i>Atriplex suckleyi</i>													X ²					
Pitseed goosefoot	<i>Chenopodium berlandieri</i>				X ²														
Western marsh cudweed	<i>Gnaphalium palustre</i>	X		0.10															
Common cocklebur	<i>Xanthium strumarium</i>													X		0.72			
Introduced Annual Forbs																			
Desert alyssum	<i>Alyssum desertorum</i>				X		0.07	X ²											
Littleseed falseflax	<i>Camelina microcarpa</i>				X ²														
Oakleaf goosefoot	<i>Chenopodium glaucum</i>													X ²					
Flixweed	<i>Descurainia sophia</i>				X		0.07												
Clasiping pepperweed	<i>Lepidium perfoliatum</i>				X		0.07										X ²		
Prostrate knotweed	<i>Polygonum aviculare</i>													X		0.08			
Field pennycress	<i>Thlaspi arvense</i>													X ²					
Introduced Biennial Forbs																			
Prickly lettuce	<i>Lactuca serriola</i>													X		0.08			
Sweetclover	<i>Melilotus officinalis</i>	X		0.40	X		0.07	X		0.36	X	5	0.40	X ²			X		0.32
Yellow salsify	<i>Tragopogon dubius</i>	X		0.10	X ²			X		0.10							X ²		
Native Perennial Forbs																			
Western yarrow	<i>Achillea millefolium</i>	X		0.70	X		0.14	X		0.26				X		0.08	X ²		
Indianhemp	<i>Apocynum cannabinum</i>																X ²		
Two-grooved milkvetch ¹	<i>Astragalus bisulcatus</i>							X ²									X ²		
Spoonleaf milkvetch	<i>Astragalus spatulatus</i>	X		0.20															
Gunnison mariposalily	<i>Calochortus gunnisonii</i>													X		0.08			
White prairie clover	<i>Dalea candida</i>													X ²					
Alpine golden buckwheat	<i>Eriogonum flavum</i>				X ²														
Scarlet gaura	<i>Gaura coccinea</i>													X ²					
Wild licorice ¹	<i>Glycyrrhiza lepidota</i>													X ²					
Curlycup gumweed ¹	<i>Grindelia squarrosa</i>	X		0.10	X		0.14	X ²			X ²			X ²			X		0.16
Hoods phlox	<i>Phlox hoodii</i>	X		0.10	X		0.06	X		0.87									
Slimflower scurfpea	<i>Psoraleidium tenuiflorum</i>	X		0.30				X ²						X ²					
Upright prairie coneflower	<i>Ratibida columnifera</i>	X		0.20				X		0.21									
Willowleaf dock	<i>Rumex salicifolius</i>													X ²					
Scarlet globemallow	<i>Sphaeralcea coccinea</i>							X		0.15	X		0.20						
Western aster	<i>Symphyotrichum ascendens</i>													X ²					
White prairie aster	<i>Symphyotrichum falcatum</i>													X ²					
Prairie thermopsis	<i>Thermopsis rhombifolia</i>	X		0.90	X ²			X ²			X		0.30				X		0.4
Broadleaf cattail	<i>Typha latifolia</i>													X		0.24			
American vetch	<i>Vicia americana</i>	X		0.10				X		0.05									
Introduced Perennial Forbs																			
Chickpea milkvetch	<i>Astragalus cicer</i>							X		0.05				X		0.08			
Canada thistle ¹	<i>Cirsium arvense</i>	X ²						X ²						X		0.24			
Alfalfa	<i>Medicago sativa</i>							X ²			X ²						X ²		

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Curly dock ¹	<i>Rumex crispus</i>													X		0.88			
Common dandelion	<i>Taraxacum officinale</i>							X		0.10	X		0.10	X		0.08	X ²		
Red clover	<i>Trifolium pratense</i>													X		0.08			
Native Full Shrubs																			
Silver sagebrush	<i>Artemisia cana</i>				X		0.07	X			X								
Big sagebrush	<i>Artemisia tridentata</i>	X	2	7.50	X	5	1.31	X	1	12.26	X	5	0.40	X					
Four-wing saltbush	<i>Atriplex canescens</i>										X						X		0.08
Yellow rabbitbrush	<i>Chrysothamnus viscidiflorus</i>	X		0.90	X		0.07	X		0.05									
Woods’ rose	<i>Rosa woodsii</i>	X		0.10							X			X			X		0.08
Greasewood	<i>Sarcobatus vermiculatus</i>	X		2.30	X	2	11.72	X		0.15				X		0.32	X		0.56
Native Half & Sub-Shrubs																			
Fringed sagewort ¹	<i>Artemisia frigida</i>				X		0.07	X		0.46									
Gardner saltbush	<i>Atriplex gardneri</i>	X		0.10	X			X											
Broom snakeweed ¹	<i>Gutierrezia sarothrae</i>	X		0.90	X		0.07	X		0.06	X ²								
Winterfat	<i>Krascheninnikovia lanata</i>							X		0.10									
Native Trees																			
Rocky Mountain juniper	<i>Juniperus scopulorum</i>	X ²																	
Eastern cottonwood	<i>Populus deltoides</i>													X ²					
Peachleaf willow	<i>Salix amygdaloides</i>													X ²					
Native Succulents																			
Plains pricklypear	<i>Opuntia polyacantha</i>	X		0.70	X		1.03	X		0.62	X		0.30						
Cryptogams																			
Moss																			
Lichen		X		2.60	X		0.41	X		3.28	X		0.60						
Algae																			
Fungi																			
Notes: Plant Species ¹ Species lacking creditable values, not counted in species diversity X indicates species is present but with following qualifiers ² Species observed, but not sampled Rank: Species’ ranked occurrence in Vegetation Community Absolute % Cover: Species’ crown cover measured by point-intercepts spaced at 1-meter intervals along 50 –meter transects within each Vegetation Community. Source: BKS. 2014a																			