

Appendix K Special-Status Plant and Animal Species and Scientific Names

Species of Special Concern¹ known to occur under the Proposed Airspace and Their Counties of Occurrence

Common Name	Scientific Name	Project Area States and Counties of Known Occurrence				FED ²	Habitat
		ND	SD	MT	WY		
Birds							
American bittern	<i>Botaurus lentiginosus</i>	All counties			Crook	FSR2	Seasonal or semi-permanent wetlands
American dipper	<i>Cinclus mexicanus</i>		Lawrence, Meade		Sheridan?		Fast, clear, cold mountain streams
American white pelican	<i>Pelicanus erythrorhynchos</i>	passage migrant			Not on SOC list		Lakes, marshes, rivers
Baird's sparrow	<i>Ammodramus bairdii</i>	Bowman			Campbell	BLM	Native mixed-grass prairie
Bald eagle	<i>Haliaeetus leucocephalus</i>	Morton, Slope	Lawrence, Meade, Ziebach	Big Horn, Carter, Custer, Fallon, Powder River, Rosebud, Treasure	Sheridan, Campbell	D, FWS SOC	Riparian and lacustrine
Black-backed woodpecker	<i>Picoides arcticus</i>			Powder River	Crook, Westin?	FSR2	Early successional burned forest of mixed conifer
Black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>	All counties			Crook, Campbell, Sheridan		Woodlands, thickets, prairie shrubs, wooded urban areas
Black tern	<i>Chlidonias niger</i>			Carter	Not on SOC list	FSR2	Wetlands, marshes, small ponds
Burrowing owl	<i>Speotyto cunicularia</i>			All counties	All counties	FSR2, BLM	Open grasslands, associated with animal burrows

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Chestnut-collared longspur	<i>Calcarius ornatus</i>	All counties			Campbell, Crook, Westin	FSR2	Shortgrass prairies
Common loon	<i>Gavia immer</i>				Crook, Sheridan	FSR4	Clear, secluded mid-elevational lakes >4 acres
Ferruginous hawk	<i>Buteo regalis</i>	All counties			All counties	FSR2, BLM	Native grasslands and shrublands
Grasshopper sparrow	<i>Ammodramus savannarum</i>	All counties			All counties	FSR2	Lightly-grazed mixed-grass prairie, meadows, hayfields
Horned grebe	<i>Podiceps auritus</i>	passage migrant			Not on SOC list		Open water
Lark bunting	<i>Calamospiza melanocorys</i>	All counties			Dropped from Watch List		Sagebrush/sage prairie, 2ndary mixed-grass with dispersed shrubs
Long-billed curlew	<i>Numenius americanus</i>	Golden Valley, Bowman, Sioux, Slope		All counties	Campbell, Crook, Sheridan?, Westin	FSR2, BLM	Short-grass prairie or grazed mixed-grass
Marbled godwit	<i>Limosa fedoa</i>	All Counties			Not on SOC list		Wetlands, streams, lakes, native prairie often heavily grazed
Mountain plover	<i>Charadrius montanus</i>			Big Horn, Treasure	Campbell, Crook, Westin	FSR2	Prairie dog colonies, shortgrass prairies
Northern goshawk			{Black Hills area}	All counties	Crook, Sheridan	BLM, FSR2, FSR4	Coniferous and aspen forests in mid-altitudes
Osprey	<i>Pandion haliaetus</i>		Lawrence		All counties		Near large rivers and lakes
Sprague's pipit	<i>Anthus spragueii</i>	Bowman, Golden Valley,			Not on SOC list		Ungrazed or lightly-grazed prairie

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		Morton, Slope					
Swainson's hawk	<i>Buteo swainsoni</i>	All Counties			Dropped from Watch List		prairies
Upland sandpiper	<i>Bartramia longicauda</i>	Grant, Hettinger, Morton			Dropped from SOC List		Dry, open mixed-grass prairie
Western yellow-billed cuckoo	<i>Coccyzus americanus americanus</i>	--	Lawrence?	Rare – Rosebud? Custer?	Rare - Crook, Sheridan	C	Cottonwood – riparian areas
Willet	<i>Tringa semipalmata</i>	All counties			Not on SOC list		Wetlands, uplands; native prairies
Wilson's phalarope	<i>Phalaropus tricolor</i>	All counties			Dropped from SOC List		Shallow wetlands or mudflats
Mammals							
Black-tailed prairie dog	<i>Cynomys ludovicianus</i>	Bowman		All counties	All counties	Under current status review; FSR2	Short grass grazed rangeland
Meadow jumping mouse	<i>Zapus hudsonius</i>			All counties except Treasure?	Bear Lodge subsp in Crook, Westin		Dense, tall, lush grasses in marshy areas, riparian upland slopes within ponderosa pine
Pallid bat	<i>Antrozous pallidus</i>			Big Horn, Treasure, Powder River, Rosebud	Not on SOC list		Ponderosa pine and big sagebrush with rock outcrops
River otter	<i>Lutra canadensis</i>		Meade		Sheridan?	FSR2	Rivers
Spotted bat	<i>Euderma maculatum</i>			Big Horn, Treasure	Not on SOC list	FSR2, FSR4, BLM	Open, arid habitats close to tall cliffs

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Swift fox	<i>Vulpes velox</i>		Corson, Perkins, Butte		Crook?, Campbell, Westin	FSR2, BLM	Shortgrass prairies
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>			All counties	Potentially all counties?	BLM, FSR2, FSR4	Caves and abandoned mines nears conifer and bottomland woodlands
Fish							
Blue sucker	<i>Cycleptus elongates</i>	Morton, Sioux		Rosebud?, Custer?	Not on SOC list		Swift current turbid rivers w/ rocky or gravel bottoms
Burbot	<i>Lota lota</i>			Powder River, Custer, Rosebud, Big Horn	Not on SOC list		Large rivers and cold, deep lakes and reservoirs
Longnose sucker	<i>Catostomus catostomus</i>		Butte, Meade		Not on SOC list		Clear, cold, deep water of lakes and tributary streams
Northern redbelly dace	<i>Phoxinus eos</i>		Corson		Not on SOC list		Quiet waters from beaver ponds, bogs and clear streams
Paddlefish	<i>Polyodon spathula</i>			Rosebud, Custer	Not on SOC list		Large rivers
Sauger	<i>Stizostedion canadense</i>			All counties	Campbell, ,Sheridan		Large turbid rivers and shallow turbid lakes
Sturgeon chub	<i>Macrhybopsis gelida</i>	Bowman, Golden Valley, Slope	Harding, Zeibach	Powder River, Custer	Campbell, Sheridan	FSR2	Turbid rivers w/ sand or gravel bottoms
Yellowstone cutthroat trout	<i>Oncorhynchus clarki bouvieri</i>			Big Horn	Sheridan	FSR2, BLM	Clear, cold streams, rivers and lakes
Amphibians and Reptiles							

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False map turtle	<i>Graptemys pseudogeographica</i>		Corson		Not on SOC list		Slow portion of larger rivers
Milksnake	<i>Lampropeltis triangulum</i>			Big Horn, Treasure, Rosebud, Custer, Powder River	Not on SOC list		Open sagebrush grasslands, ponderosa pine, rocky outcrops and hillsides
Northern leopard frog	<i>Rana pipiens</i>			All counties	All counties	FSR2, BLM	Low-elevation and valley bottom ponds, lakes, creeks, springs, marshes.
Plains spadefoot	<i>Spea bombifrons</i>	All counties			Not on SOC list		Dry grasslands
Smooth green snake	<i>Liochlorophis vernalis</i>	All counties			Crook, Westin		grasslands
Snapping turtle	<i>Chelydra serpentina</i>			All counties	Not on SOC list		Major rivers, smaller reservoirs and streams with sandy or muddy bottoms
Spiny softshell	<i>Apalone spinifera</i>			Big Horn, Treasure, Rosebud, Custer	Campbell, Crook?, Sheridan, Westin?		Large rivers and tributaries
Western hog-nosed snake	<i>Heterodon nasicus</i>	All counties		All counties	Not on SOC list		Sandy or gravelly habitats, often by rivers
Plants							
Alderleaf mountain-mahogany	<i>Cercocarpus montanus</i>			Treasure			Open slopes and breaks on the plains
American trailplant	<i>Adenocaulon bicolor</i>				Crook		Moist, shady birch/hazelnut woods
Blue toadflax	<i>Nuttallanthus texanus</i>			Carter			Shale soils of

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							grasslands and woodlands on the plains
Bractless hedge-hyssop	<i>Gratiola ebracteata</i>			Yellowstone			Dry mud around ponds in foothills and plains
Bractless mentzelia	<i>Mentzelia nuda</i>			Custer, Powder River, Rosebud			Sandy or gravelly soil of open hills and roadsides
Bur oak	<i>Quercus macrocarpa</i>			Carter			Co-dominant with Rocky Mtn. juniper and ponderosa pine or with green ash.
Cottongrass bulrush	<i>Scirpus cyperinus</i>				Crook		Wet low ground
Desert groundsel	<i>Senecio eremophilus</i>			Big Horn			Streambanks and riparian forests
Dwarf scouring rush	<i>Equisetum scirpoides</i>				Crook		Shaded, damp, moss-covered rocks along streams in white spruce and fir woods.
Foxtail sedge	<i>Carex alopecoidea</i>				Crook		Wet meadows and willow-sedge communities
Large flowered beardtongue	<i>Penstemon grandiflorus</i>			Custer			Sandy soil of valleys on the plains
Letterman's needlegrass	<i>Stipa lettermanii</i>			Big Horn			Limestone talus and dry fescue grasslands
Marsh muhly	<i>Muhlenbergia glomerata</i>				Crook		Limestone talus and dry fescue grasslands
Nannyberry	<i>Viburnum lentago</i>			Big Horn			Openings in riparian forests in the plains.
Narrowleaf milkweed	<i>Asclepias stenophylla</i>			Carter, Rosebud			Openings in riparian forests in the plains

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Narrowleaf penstemon	<i>Penstemon angustifolius</i>			Carter, Fallon			Sandy prairie grasslands
Nine-antherdalea	<i>Dalea enneandra</i>			Big Horn, Custer, Fallon			Gravelly-soiled grasslands on the plains
Nuttall desert-parsley	<i>Lomatium nuttallii</i>			Big Horn, Rosebud			Open, rocky pine woodlands in mid to lower elevation.
Ovalleaf milkweed	<i>Asclepias ovalifolia</i>			Carter			Open pine woodlands, prairies and dry riparian terraces
Persistent-sepal yellow- cress	<i>Rorippa calycina</i>			Big Horn, Custer, Rosebud, Treasure, Yellowstone			Moist sandy to muddy banks of streams, ponds, reservoirs near high water line.
Prairie aster	<i>Aster ptarmicoides</i>			Carter			Open, dry grasslands on sandy or limestone plains
Prairie moonwort	<i>Botrychium campestre</i>				Crook		Prairies, dunes, and fields over limestone
Pregnant sedge	<i>Carex gravida</i>			Big Horn, Carter, Powder River, Rosebud			Green ash ravines and wooded draws
Sand cherry	<i>Prunus pumila</i>			Fallon			Sandy or rocky soils in grasslands on the plains.
Scribner's panic grass	<i>Dichanthelium oligosanthes</i> <i>var. scribnerianum</i>			Powder River			Sandy pinelands and wooded draws will well-drained soils.
Silky prairie clover	<i>Dalea villosa</i>			Powder			Sandy soils of

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				River			prairies and woodlands
Slender wedgegrass	<i>Sphenopholis intermedia</i>			Carter			Wet areas in valleys or foothills
Slender-branched popcorn-flower	<i>Plagiobothrys leptocladus</i>			Big Horn			Drying mud on shores of ponds in plains and foothills.
Smooth goosefoot	<i>Chenopodium subglabrum</i>			Custer			Loose, sandy soils in early successional sparsely vegetated habitats.
Spotted Joe pye-weed	<i>Eupatorium maculatum</i>			Carter, Custer, Powder River, Yellowstone			Moist meadows, springs, swamp thickets
Sweetwater milkvetch	<i>Astragalus aretioides</i>			Big Horn			Exposed ridges & slopes often in opening of Douglas fir
Trailing clubmoss	<i>Lycopodium complanatum</i>				Crook		Semi-shady white spruce/paper birch forest
Treelike clubmoss	<i>Lycopodium dendroideum</i>				Crook		Moist coniferous forests
Visher's buckwheat	<i>Eriogonum visherii</i>			Carter			Barren rock outcrops or clay outwash
White-bract stickleaf	<i>Mentzelia montana</i>			Custer			Grasslands and sparsely vegetated slopes in the plains.
Woolly twinpod	<i>Physaria didymocarpa var. lanata</i>			Big Horn, Rosebud			Sandy open grasslands or shrubland slopes in plains

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Wyoming thistle	<i>Cirsium pulcherrimum</i>			Powder River			Sparsely-vegetated soils of washes and gullies.
Yellow bee plant	<i>Cleome lutea</i>			Big Horn			Open sandy sagebrush steppe

(Sources: MTFWP 2005; MTNHP 2007; Hagen et al. 2005; Nature Serve 2007; SDGFP 2008; SDGFP 2002; SDB 2008; WYGF 2005; Fertig et al. 1994; WYNDD 2003)

¹ WYNDD describes these as plants and animals that are rare, endemic, disjunct, threatened, or otherwise biologically sensitive or are vulnerable to extirpation at the global or state level. SOC = species of concern. Counties with question marks (?) were unverified by the source.

² D = delisted under ESA; C = candidate for federal listing; BLM = BLM Sensitive; FSR_ = USFWS Sensitive and Region