

**APPENDIX F**

**BLM SENSITIVE SPECIES EVALUATION FOR THE  
SOUTH GILLETTE AREA COAL EIS**

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## **BLM SENSITIVE SPECIES EVALUATION**

### **INTRODUCTION**

The Bureau of Land Management (BLM) Wyoming has prepared a list of sensitive species to focus species management efforts towards maintaining habitats under a multiple use mandate. The authority for this policy and guidance comes from the Endangered Species Act (ESA), as amended; Title II of the Sikes Act, as amended; the Federal Land Policy Management Act of 1976 (FLPMA) (43 U.S.C. 1716); Department Manual 235.1.1A; and BLM Manual 6840.06 E. Sensitive Species.

The goals of the sensitive species policy are to:

- Maintain vulnerable species and habitat components in functional BLM ecosystems.
- Ensure sensitive species are considered in land management decisions.
- Prevent a need for species listing under the ESA.
- Prioritize needed conservation work with an emphasis on habitat.

### **PROJECT DESCRIPTION**

Under the Proposed Action, BLM will hold separate competitive lease sales for the federal coal lands in the Belle Ayr North Lease by Application (LBA) Tract as applied for by Foundation Coal West (FCW), the West Coal Creek LBA tract as applied for by Ark Land Company (ALC), the Caballo West LBA tract as applied for by Caballo Coal Company (CCC), and the Maysdorf II LBA tract as applied for by Cordero Mining Company (CMC) (see figures 2-1 through 2-4 and the land descriptions in section 2.1 of this environmental impact statement [EIS]). There are four Proposed Actions, one for each of the LBA tracts. For each tract, the Proposed Action assumes that the applicant for a tract would be the successful bidder and that the tract would be mined as a maintenance lease for an existing mine. The surface estate on each LBA tract is privately owned with the exception of the Maysdorf II Tract, which has approximately 284 acres of federally owned surface. This federally owned surface is managed by BLM.

### **SPECIES OCCURRENCE AND HABITAT DESCRIPTIONS**

Sensitive species were listed for the BLM Buffalo Field Office within its range. Some sensitive species could or do occur within the four LBA tracts. Specialized habitat requirements (i.e., caves, cliffs, calcareous rock outcrops) make occupation for other sensitive species unlikely. Tables F-1 through F-4 list BLM sensitive species, summarize their habitat requirements, and indicate if they have been observed on or around the general analysis areas for the LBA tracts. These tables represent the most current sensitive species lists (BLM 2002), and observations were based on field surveys and file searches completed in 2007 and 2008. Additional information on occurrences of these species on the tracts and surrounding wildlife survey areas can be found in section 3.10 of this EIS.

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Table F-1. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on Belle Ayr North LBA Tract.

Common Name (scientific name)	Habitat	Observed on Belle Ayr North LBA Tract
<b>Amphibians</b>		
Northern leopard frog ( <i>Rana pipiens</i> )	Beaver ponds, permanent water in plains and foothills	No
Spotted frog ( <i>Rana pretiosa</i> )	Ponds, sloughs, small streams	No <sup>1</sup>
<b>Birds</b>		
Baird's sparrow ( <i>Ammodramus bairdii</i> )	Grasslands, weedy fields	No <sup>1</sup>
Brewer's sparrow ( <i>Spizella breweri</i> )	Basin-prairie shrub	Yes, Presumed Breeder
Burrowing owl ( <i>Athene cunicularia</i> )	Grasslands, basin-prairie shrub	No, Historic Breeder
Ferruginous hawk ( <i>Buteo regalis</i> )	Basin-prairie shrub, grasslands, rock outcrops	No, Common Breeder in vicinity
Greater sage-grouse ( <i>Centrocercus urophasianus</i> )	Basin-prairie shrub, mountain-foothill shrub	No, Common Breeder in vicinity
Loggerhead shrike ( <i>Lanius ludovicianus</i> )	Basin-prairie shrub, mountain-foothill shrub	No, Uncommon Breeder
Long-billed curlew ( <i>Numenius americanus</i> )	Grasslands, plains, foothills, wet meadows	No, Infrequent Migrant
Mountain Plover ( <i>Charadrius montanus</i> )	Shortgrass/midgrass grasslands, basin-prairie shrubs	No <sup>1</sup>
Northern goshawk ( <i>Accipiter gentilis</i> )	Conifer and deciduous forests	No <sup>1</sup>
Peregrine falcon ( <i>Falco peregrinus</i> )	Cliffs	No, Occasional Migrant
Sage sparrow ( <i>Amphispiza billneata</i> )	Basin-prairie shrub, mountain-foothill shrub	No, Rare Visitor
Sage thrasher ( <i>Oreoscoptes montanus</i> )	Basin-prairie shrub, mountain-foothill shrub	No, Rare Breeder
Trumpeter swan ( <i>Cygnus buccinator</i> )	Lakes, ponds, rivers	---- <sup>1</sup>
White-faced ibis ( <i>Plegadis chihi</i> )	Marshes, wet meadows	---- <sup>1</sup>
Yellow-billed cuckoo ( <i>Coccyzus americanus</i> )	Open woodlands, streamside willow and alder groves	No <sup>1</sup>

Table F-1. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on Belle Ayr North LBA Tract (Continued).

<b>Common Name (scientific name)</b>	<b>Habitat</b>	<b>Observed on Belle Ayr North LBA Tract</b>
<b>Fish</b>		
Yellowstone cutthroat trout ( <i>Oncorhynchus clarki</i> )	Cold water streams and lakes	No <sup>1</sup>
<b>Mammals</b>		
Black-tailed prairie dog ( <i>Cynomys ludovicianus</i> )	Shortgrass/midgrass grasslands	No <sup>1</sup>
Fringed myotis ( <i>Myotis thysanodes</i> )	Conifer forests, woodland chaparral, caves and mines	---- <sup>1</sup>
Long-eared myotis ( <i>Myotis evotis</i> )	Conifer and deciduous forest, caves and mines	---- <sup>1</sup>
Spotted bat ( <i>Euderma maculatum</i> )	Cliffs over perennial water, basin-prairie shrub	---- <sup>1</sup>
Swift fox ( <i>Vulpes velox</i> )	Grasslands	No
Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> )	Forests, basin-prairie shrub, caves and mines	---- <sup>1</sup>
White-tailed prairie dog ( <i>Cynomys leucurus</i> )	Basin-prairie shrub, grasslands	---- <sup>1</sup>
<b>Plants</b>		
Northern Arnica ( <i>Arnica lonchophylla</i> )	Open woods and slopes on sandy-gravel or limestone and shady, moist north-facing birch-hazelnut forests. Elev. 6,500-8,000 ft.	---- <sup>1</sup>
Porter's sagebrush ( <i>Artemisia porteri</i> )	Sparsely vegetated badlands of ashy or tufaceous mudstone and clay slopes; 5,300 to 6,500 ft	---- <sup>1</sup>
Soft Aster ( <i>Aster mollis</i> )	Sagebrush grasslands and mountain meadows on deep, calcareous soils at the edge of aspen or pine woodlands. Elev. 6,400-8,500 ft	---- <sup>1</sup>
William's wafer parsnip ( <i>Cymopterus williamsii</i> )	Open ridgetops and upper slopes with exposed limestone outcrops or rockslides; 6,000 to 8,300 ft	---- <sup>1</sup>
Mountain Lady's Slipper ( <i>Cypripedium montanum</i> )	Shady moist forests and riparian shrublands. Elev. 5,400-5,500 ft.	---- <sup>1</sup>
Rabbit Buckwheat ( <i>Eriogonum brevicaulis</i> var. <i>canum</i> [E. <i>Lagopus</i> ])	Barren sandy or clay soils and rock outcrops in juniper woodlands and sagebrush steppe communities. Elev. 3,800-5,500 ft.	---- <sup>1</sup>
Hall's Fescue ( <i>Festuca hallii</i> )	Meadows, slopes, and open woods. Elev. 7,400-10,500 ft.	---- <sup>1</sup>

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Table F-1. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on Belle Ayr North LBA Tract (Continued).

<b>Common Name (scientific name)</b>	<b>Habitat</b>	<b>Observed on Belle Ayr North LBA Tract</b>
Contracted Indian Ricegrass ( <i>Oryzopsis contracta</i> [ <i>O. hymenoides</i> var. <i>contracta</i> ])	Basin and foothill areas on dry, sandy soils. Elev. 4,800-7,500 ft.	No
Cary's Beardtongue ( <i>Penstemon caryi</i> )	Calcareous rock outcrops and rocky soil within sagebrush, juniper, Douglas fir, and limber pine communities. Elev. 5,200-8,500 ft.	---- <sup>1</sup>
Northern Blackberry ( <i>Rubus arcticus</i> ssp. <i>acaulis</i> [ <i>R. acaulis</i> ])	Boggy woods and marshes. Elev. 7,000-9,000 ft.	---- <sup>1</sup>
Ute Ladies' Tresses ( <i>Spiranthes diluvialis</i> )	Moist, subirrigated or seasonally flooded soils bordering wetland meadows, springs, lakes, or perennial streams 4,200-7,000'	No
Hapeman's Sullivan ( <i>Sullivantia hapemanii</i> var. <i>hapemanii</i> )	Moist calcareous outcrops and boulders in shady canyons and streams. Elev. 4,600-8,200 ft.	---- <sup>1</sup>

<sup>1</sup> Habitat generally lacking or very limited

Table F-2. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on West Coal Creek LBA Tract.

Common Name (scientific name)	Habitat	Observed on West Coal Creek LBA Tract
<b>Amphibians</b>		
Northern leopard frog ( <i>Rana pipiens</i> )	Beaver ponds, permanent water in plains and foothills	---- <sup>1</sup>
Spotted frog ( <i>Ranus pretiosa</i> )	Ponds, sloughs, small streams	No
<b>Birds</b>		
Baird's sparrow ( <i>Ammodramus bairdii</i> )	Grasslands, weedy fields	No <sup>1</sup>
Brewer's sparrow ( <i>Spizella breweri</i> )	Basin-prairie shrub	Presumed Breeder
Burrowing owl ( <i>Athene cunicularia</i> )	Grasslands, basin-prairie shrub	Recent Breeder
Ferruginous hawk ( <i>Buteo regalis</i> )	Basin-prairie shrub, grasslands, rock outcrops	Common Breeder
Greater sage-grouse ( <i>Centrocercus urophasianus</i> )	Basin-prairie shrub, mountain-foothill shrub	Common Breeder
Loggerhead shrike ( <i>Lanius ludovicianus</i> )	Basin-prairie shrub, mountain-foothill shrub	Infrequent Breeder
Long-billed curlew ( <i>Numenius americanus</i> )	Grasslands, plains, foothills, wet meadows	Infrequent Migrant
Mountain Plover ( <i>Charadrius montanus</i> )	Shortgrass/midgrass grasslands, basin-prairie shrubs	Never Recorded <sup>1</sup>
Northern goshawk ( <i>Accipiter gentilis</i> )	Conifer and deciduous forests	No <sup>1</sup>
Peregrine falcon ( <i>Falco peregrinus</i> )	Cliffs	Rare Migrant
Sage sparrow ( <i>Amphispiza billineata</i> )	Basin-prairie shrub, mountain-foothill shrub	Rare Visitor
Sage thrasher ( <i>Oreoscoptes montanus</i> )	Basin-prairie shrub, mountain-foothill shrub	Rare Breeder
Trumpeter swan ( <i>Cygnus buccinator</i> )	Lakes, ponds, rivers	---- <sup>1</sup>
White-faced ibis ( <i>Plegadis chihi</i> )	Marshes, wet meadows	---- <sup>1</sup>
Yellow-billed cuckoo ( <i>Coccyzus americanus</i> )	Open woodlands, streamside willow and alder groves	No <sup>1</sup>

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Table F-2. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on West Coal Creek LBA Tract (Continued).

Common Name (scientific name)	Habitat	Observed on West Coal Creek LBA Tract
<b>Fish</b>		
Yellowstone cutthroat trout ( <i>Oncorhynchus clarki</i> )	Cold water streams and lakes	No <sup>1</sup>
<b>Mammals</b>		
Black-tailed prairie dog ( <i>Cynomys ludovicianus</i> )	Shortgrass/midgrass grasslands	No <sup>1</sup>
Fringed myotis ( <i>Myotis thysanodes</i> )	Conifer forests, woodland chaparral, caves and mines	---- <sup>1</sup>
Long-eared myotis ( <i>Myotis evotis</i> )	Conifer and deciduous forest, caves and mines	---- <sup>1</sup>
Spotted bat ( <i>Euderma maculatum</i> )	Cliffs over perennial water, basin-prairie shrub	---- <sup>1</sup>
Swift fox ( <i>Vulpes velox</i> )	Grasslands	No
Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> )	Forests, basin-prairie shrub, caves and mines	---- <sup>1</sup>
White-tailed prairie dog ( <i>Cynomys leucurus</i> )	Basin-prairie shrub, grasslands	No.
<b>Plants</b>		
Northern Arnica ( <i>Arnica lonchophylla</i> )	Open woods and slopes on sandy-gravel or limestone and shady, moist north-facing birch-hazelnut forests. Elev. 6,500-8,000 ft.	---- <sup>1</sup>
Porter's sagebrush ( <i>Artemisia porteri</i> )	Sparsely vegetated badlands of ashy or tufaceous mudstone and clay slopes; 5,300 to 6,500 ft	---- <sup>1</sup>
Soft Aster ( <i>Aster mollis</i> )	Sagebrush grasslands and mountain meadows on deep, calcareous soils at the edge of aspen or pine woodlands. Elev. 6,400-8,500 ft	---- <sup>1</sup>
William's wafer parsnip ( <i>Cymopterus williamsii</i> )	Open ridgetops and upper slopes with exposed limestone outcrops or rockslides; 6,000 to 8,300 ft	---- <sup>1</sup>
Mountain Lady's Slipper ( <i>Cypripedium montanum</i> )	Shady moist forests and riparian shrublands. Elev. 5,400-5,500 ft.	---- <sup>1</sup>
Rabbit Buckwheat ( <i>Eriogonum brevicaulum</i> var. <i>canum</i> [E. <i>Lagopus</i> ])	Barren sandy or clay soils and rock outcrops in juniper woodlands and sagebrush steppe communities. Elev. 3,800-5,500 ft.	---- <sup>1</sup>

Table F-2. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on West Coal Creek LBA Tract (Continued).

<b>Common Name (scientific name)</b>	<b>Habitat</b>	<b>Observed on West Coal Creek LBA Tract</b>
Hall's Fescue ( <i>Festuca hallii</i> )	Meadows, slopes, and open woods. Elev. 7,400-10,500 ft.	---- <sup>1</sup>
Contracted Indian Ricegrass ( <i>Oryzopsis contracta</i> [ <i>O. hymenoides</i> var. <i>contracta</i> ])	Basin and foothill areas on dry, sandy soils. Elev. 4,800-7,500 ft.	No
Cary's Beardtongue ( <i>Penstemon caryi</i> )	Calcareous rock outcrops and rocky soil within sagebrush, juniper, Douglas fir, and limber pine communities. Elev. 5,200-8,500 ft.	---- <sup>1</sup>
Northern Blackberry ( <i>Rubus arcticus</i> ssp. <i>acaulis</i> [ <i>R. acaulis</i> ])	Boggy woods and marshes. Elev. 7,000-9,000 ft.	---- <sup>1</sup>
Ute Ladies' Tresses ( <i>Spiranthes diluvialis</i> )	Moist, subirrigated or seasonally flooded soils bordering wetland meadows, springs, lakes, or perennial streams 4,200-7,000'	No
Hapeman's Sullivan ( <i>Sullivantia hapemanii</i> var. <i>hapemanii</i> )	Moist calcareous outcrops and boulders in shady canyons and streams. Elev. 4,600-8,200 ft.	---- <sup>1</sup>

<sup>1</sup> Habitat generally lacking or very limited

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Table F-3. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on Caballo West LBA Tract.

Common Name (scientific name)	Habitat	Observed on Caballo West LBA Tract
<b>Amphibians</b>		
Northern leopard frog ( <i>Rana pipiens</i> )	Beaver ponds, permanent water in plains and foothills	No
Spotted frog ( <i>Rana pretiosa</i> )	Ponds, sloughs, small streams	No <sup>1</sup>
<b>Birds</b>		
Baird's sparrow ( <i>Ammodramus bairdii</i> )	Grasslands, weedy fields	No <sup>1</sup>
Brewer's sparrow ( <i>Spizella breweri</i> )	Basin-prairie shrub	Yes, Presumed Breeder
Burrowing owl ( <i>Athene cunicularia</i> )	Grasslands, basin-prairie shrub	No, Historic Breeder
Ferruginous hawk ( <i>Buteo regalis</i> )	Basin-prairie shrub, grasslands, rock outcrops	No, Common Breeder in vicinity
Greater sage-grouse ( <i>Centrocercus urophasianus</i> )	Basin-prairie shrub, mountain-foothill shrub	No, Common Breeder in vicinity
Loggerhead shrike ( <i>Lanius ludovicianus</i> )	Basin-prairie shrub, mountain-foothill shrub	No, Uncommon Breeder
Long-billed curlew ( <i>Numenius americanus</i> )	Grasslands, plains, foothills, wet meadows	No, Infrequent Migrant
Mountain Plover ( <i>Charadrius montanus</i> )	Shortgrass/midgrass grasslands, basin-prairie shrubs	No <sup>1</sup>
Northern goshawk ( <i>Accipiter gentilis</i> )	Conifer and deciduous forests	No <sup>1</sup>
Peregrine falcon ( <i>Falco peregrinus</i> )	Cliffs	No, Occasional Migrant
Sage sparrow ( <i>Amphispiza billineata</i> )	Basin-prairie shrub, mountain-foothill shrub	No, Rare Visitor
Sage thrasher ( <i>Oreoscoptes montanus</i> )	Basin-prairie shrub, mountain-foothill shrub	No, Rare Breeder
Trumpeter swan ( <i>Cygnus buccinator</i> )	Lakes, ponds, rivers	---- <sup>1</sup>
White-faced ibis ( <i>Plegadis chihi</i> )	Marshes, wet meadows	---- <sup>1</sup>
Yellow-billed cuckoo ( <i>Coccyzus americanus</i> )	Open woodlands, streamside willow and alder groves	No <sup>1</sup>

Table F-3. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on Caballo West LBA Tract (Continued).

<b>Common Name (scientific name)</b>	<b>Habitat</b>	<b>Observed on Caballo West LBA Tract</b>
<b>Fish</b>		
Yellowstone cutthroat trout ( <i>Oncorhynchus clarki</i> )	Cold water streams and lakes	No <sup>1</sup>
<b>Mammals</b>		
Black-tailed prairie dog ( <i>Cynomys ludovicianus</i> )	Shortgrass/midgrass grasslands	No <sup>1</sup>
Fringed myotis ( <i>Myotis thysanodes</i> )	Conifer forests, woodland chaparral, caves and mines	---- <sup>1</sup>
Long-eared myotis ( <i>Myotis evotis</i> )	Conifer and deciduous forest, caves and mines	---- <sup>1</sup>
Spotted bat ( <i>Euderma maculatum</i> )	Cliffs over perennial water, basin-prairie shrub	---- <sup>1</sup>
Swift fox ( <i>Vulpes velox</i> )	Grasslands	No
Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> )	Forests, basin-prairie shrub, caves and mines	---- <sup>1</sup>
White-tailed prairie dog ( <i>Cynomys leucurus</i> )	Basin-prairie shrub, grasslands	---- <sup>1</sup>
<b>Plants</b>		
Northern Arnica ( <i>Arnica lonchophylla</i> )	Open woods and slopes on sandy-gravel or limestone and shady, moist north-facing birch-hazelnut forests. Elev. 6,500-8,000 ft.	No. Habitat is not present due to lack of limestone parent material and birch-hazelnut forests. Known populations in Wyoming are in Sheridan and Johnson Counties.
Porter's sagebrush ( <i>Artemisia porteri</i> )	Sparsely vegetated badlands of ashy or tufaceous mudstone and clay slopes; 5,300 to 6,500 ft	No. Habitat was not present; soil type was a major limiting factor. Known populations in Wyoming are in Fremont county.
Soft Aster ( <i>Aster mollis</i> )	Sagebrush grasslands and mountain meadows on deep, calcareous soils at the edge of aspen or pine woodlands. Elev. 6,400-8,500 ft	No. Habitat is not present. Known populations in Wyoming are in Niobrara, Natrona, Sublette, Washakie, Big Horn and Sheridan counties.
William's wafer parsnip ( <i>Cymopterus williamsii</i> )	Open ridgetops and upper slopes with exposed limestone outcrops or rockslides; 6,000 to 8,300 ft	No. Habitat limitations on the tract include lower elevations and lack of limestone parent material. Known populations in Wyoming are in Johnson, Washakie, and Natrona counties.
Mountain Lady's Slipper ( <i>Cypripedium montanum</i> )	Shady moist forests and riparian shrublands. Elev. 5,400-5,500 ft.	No. Habitat is not present due to lack of shady forests and lower elevations. Known populations in Wyoming are in Sheridan and Johnson counties.

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Table F-3. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on Caballo West LBA Tract (Continued).

Common Name (scientific name)	Habitat	Observed on Caballo West LBA Tract
Rabbit Buckwheat ( <i>Eriogonum brevicaulum</i> var. <i>canum</i> [E. <i>Lagopus</i> ])	Barren sandy or clay soils and rock outcrops in juniper woodlands and sagebrush steppe communities. Elev. 3,800-5,500 ft.	No. This species was not identified during the vegetation survey of the tract and limited areas of habitat are present due to lack of juniper woodlands and rock outcrops. Known populations in Wyoming are in Sheridan and Big Horn counties.
Hall's Fescue ( <i>Festuca hallii</i> )	Meadows, slopes, and open woods. Elev. 7,400-10,500 ft.	No. Habitat is not present due to lower elevations and lack of montane meadows and open woods. Known population in Wyoming are in Park and Johnson counties.
Contracted Indian Ricegrass ( <i>Oryzopsis contracta</i> [O. <i>hymenoides</i> var. <i>contracta</i> ])	Basin and foothill areas on dry, sandy soils. Elev. 4,800-7,500 ft.	No. Contracted Indian Ricegrass was not identified during the vegetation survey of the tract and limited areas of habitat are present. Known populations in Wyoming are in Campbell, Washakie, Hot Springs, Natrona, Sweetwater, Carbon, and Albany counties.
Cary's Beardtongue ( <i>Penstemon caryi</i> )	Calcareous rock outcrops and rocky soil within sagebrush, juniper, Douglas fir, and limber pine communities. Elev. 5,200-8,500 ft.	No. Habitat is not present due to lower elevations and lack of soils and vegetation communities where this species is found. Known populations in Wyoming are found in Big Horn, Washakie, and Sheridan counties.
Northern Blackberry ( <i>Rubus arcticus</i> ssp. <i>acaulis</i> [R. <i>acaulis</i> ])	Boggy woods and marshes. Elev. 7,000-9,000 ft.	No. Habitat is not present due to lower elevation and vegetation communities where this species is found. Known populations in Wyoming are found in Johnson county.
Ute Ladies' Tresses ( <i>Spiranthes diluvialis</i> )	Moist, subirrigated or seasonally flooded soils bordering wetland meadows, springs, lakes, or perennial streams 4,200-7,000'	No
Hapeman's Sullivan ( <i>Sullivania hapemanii</i> var. <i>hapemanii</i> )	Moist calcareous outcrops and boulders in shady canyons and streams. Elev. 4,600-8,200 ft.	No. Habitat is limited due to lack of topography and moisture conditions where this species is found. Known populations in Wyoming are found in Sheridan, Johnson, Natrona, Big Horn, and Washakie counties.

<sup>1</sup> Habitat generally lacking or very limited

Table F-4. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on Maysdorf II LBA Tract.		
Common Name (scientific name)	Habitat	Observed on Maysdorf II LBA Tract
<b>Amphibians</b>		
Northern leopard frog ( <i>Rana pipiens</i> )	Beaver ponds, permanent water in plains and foothills	Yes, incidental siting during wildlife surveys, Breeder
Spotted frog ( <i>Rana pretiosa</i> )	Ponds, sloughs, small streams	---- <sup>1</sup>
<b>Birds</b>		
Baird's sparrow ( <i>Ammodramus bairdii</i> )	Grasslands, weedy fields	No, Rare Breeder
Brewer's sparrow ( <i>Spizella breweri</i> )	Basin-prairie shrub	Yes, Common Breeder
Burrowing owl ( <i>Athene cunicularia</i> )	Grasslands, basin-prairie shrub	No, Uncommon Breeder
Ferruginous hawk ( <i>Buteo regalis</i> )	Basin-prairie shrub, grasslands, rock outcrops	Yes, Common Breeder
Greater sage-grouse ( <i>Centrocercus urophasianus</i> )	Basin-prairie shrub, mountain-foothill shrub	Yes, Common Breeder
Loggerhead shrike ( <i>Lanius ludovicianus</i> )	Basin-prairie shrub, mountain-foothill shrub	Yes, Uncommon Breeder
Long-billed curlew ( <i>Numenius americanus</i> )	Grasslands, plains, foothills, wet meadows	No, Uncommon Spring Migrant or Breeder
Mountain Plover ( <i>Charadrius montanus</i> )	Shortgrass/midgrass grasslands, basin-prairie shrubs	No, limited habitat, Rare Breeder
Northern goshawk ( <i>Accipiter gentilis</i> )	Conifer and deciduous forests	---- <sup>1</sup>
Peregrine falcon ( <i>Falco peregrinus</i> )	Cliffs	No, incidental migrant sightings during previous wildlife surveys
Sage sparrow ( <i>Amphispiza billneata</i> )	Basin-prairie shrub, mountain-foothill shrub	No, Rare Breeder
Sage thrasher ( <i>Oreoscoptes montanus</i> )	Basin-prairie shrub, mountain-foothill shrub	Yes, Uncommon Breeder
Trumpeter swan ( <i>Cygnus buccinator</i> )	Lakes, ponds, rivers	---- <sup>1</sup>
White-faced ibis ( <i>Plegadis chihi</i> )	Marshes, wet meadows	---- <sup>1</sup>
Yellow-billed cuckoo ( <i>Coccyzus americanus</i> )	Open woodlands, streamside willow and alder groves	---- <sup>1</sup>

Appendix F

Table F-4. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on Maysdorf II LBA Tract (Continued).

<b>Common Name (scientific name)</b>	<b>Habitat</b>	<b>Observed on Maysdorf II LBA Tract</b>
<b>Fish</b>		
Yellowstone cutthroat trout ( <i>Oncorhynchus clarki</i> )	Cold water streams and lakes	---- <sup>1</sup>
<b>Mammals</b>		
Black-tailed prairie dog ( <i>Cynomys ludovicianus</i> )	Shortgrass/midgrass grasslands	No prairie dog towns on tract, found adjacent to tract
Fringed myotis ( <i>Myotis thysanodes</i> )	Conifer forests, woodland chaparral, caves and mines	---- <sup>1</sup>
Long-eared myotis ( <i>Myotis evotis</i> )	Conifer and deciduous forest, caves and mines	---- <sup>1</sup>
Spotted bat ( <i>Euderma maculatum</i> )	Cliffs over perennial water, basin-prairie shrub	---- <sup>1</sup>
Swift fox ( <i>Vulpes velox</i> )	Grasslands	No, Uncommon Breeder
Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> )	Forests, basin-prairie shrub, caves and mines	---- <sup>1</sup>
White-tailed prairie dog ( <i>Cynomys leucurus</i> )	Basin-prairie shrub, grasslands	No.
<b>Plants</b>		
Northern Arnica ( <i>Arnica lonchophylla</i> )	Open woods and slopes on sandy-gravel or limestone and shady, moist north-facing birch-hazelnut forests. Elev. 6,500-8,000 ft.	---- <sup>1</sup>
Porter's sagebrush ( <i>Artemisia porteri</i> )	Sparsely vegetated badlands of ashy or tufaceous mudstone and clay slopes; 5,300 to 6,500 ft	---- <sup>1</sup>
Soft Aster ( <i>Aster mollis</i> )	Sagebrush grasslands and mountain meadows on deep, calcareous soils at the edge of aspen or pine woodlands. Elev. 6,400-8,500 ft	---- <sup>1</sup>
William's wafer parsnip ( <i>Cymopterus williamsii</i> )	Open ridgetops and upper slopes with exposed limestone outcrops or rockslides; 6,000 to 8,300 ft	---- <sup>1</sup>
Mountain Lady's Slipper ( <i>Cypripedium montanum</i> )	Shady moist forests and riparian shrublands. Elev. 5,400-5,500 ft.	---- <sup>1</sup>
Rabbit Buckwheat ( <i>Eriogonum brevicaule</i> var. <i>canum</i> [E. <i>Lagopus</i> ])	Barren sandy or clay soils and rock outcrops in juniper woodlands and sagebrush steppe communities. Elev. 3,800-5,500 ft.	---- <sup>1</sup>

Table F-4. BLM Sensitive Species for the Buffalo Field Office and Habitat Requirements and Observations on Maysdorf II LBA Tract (Continued).

<b>Common Name (scientific name)</b>	<b>Habitat</b>	<b>Observed on Maysdorf II LBA Tract</b>
Hall's Fescue ( <i>Festuca hallii</i> )	Meadows, slopes, and open woods. Elev. 7,400-10,500 ft.	---- <sup>1</sup>
Contracted Indian Ricegrass ( <i>Oryzopsis contracta</i> [ <i>O. hymenoides</i> var. <i>contracta</i> ])	Basin and foothill areas on dry, sandy soils. Elev. 4,800-7,500 ft.	No
Cary's Beardtongue ( <i>Penstemon caryi</i> )	Calcareous rock outcrops and rocky soil within sagebrush, juniper, Douglas fir, and limber pine communities. Elev. 5,200-8,500 ft.	---- <sup>1</sup>
Northern Blackberry ( <i>Rubus arcticus</i> ssp. <i>acaulis</i> [ <i>R. acaulis</i> ])	Boggy woods and marshes. Elev. 7,000-9,000 ft.	---- <sup>1</sup>
Ute Ladies' Tresses ( <i>Spiranthes diluvialis</i> )	Moist, subirrigated or seasonally flooded soils bordering wetland meadows, springs, lakes, or perennial streams 4,200-7,000'	No
Hapeman's Sullivan ( <i>Sullivantia hapemanii</i> var. <i>hapemanii</i> )	Moist calcareous outcrops and boulders in shady canyons and streams. Elev. 4,600-8,200 ft.	---- <sup>1</sup>

<sup>1</sup> Habitat generally lacking or very limited

**REFERENCES AND LITERATURE CITED**

Bureau of Land Management (BLM), 2002, BLM Wyoming Sensitive Species Policy and List September 20, 2002, available on the Internet as of March 2009:

<<http://www.blm.gov/pgdata/etc/medialib/blm/wy/wildlife.Par.9226.File.dat/02species.pdf>>.