

**Appendix 4:  
Predicted Species  
Response to  
Proposed Vegetation  
Treatments in  
Sagebrush  
Grassland Ecotypes**



**Predicted Species Response<sup>1</sup> to Proposed Vegetation Treatments in Sagebrush-Grassland Ecotypes<sup>2</sup>**

Species	Present in Project Area	Pre-Treatment	Immediately Post-treatment	10 years Post-treatment	20-years Post-treatment
Black rosy finch	Unknown	Breeding-not present; winter-low	Breeding-not present; winter-moderate to high	Breeding-not present; winter-moderate	Breeding-not present; winter-low
Black-throated sparrow	Unknown	Breeding-not present; winter-low	Breeding-low; winter-moderate to high	Breeding-moderate; winter-moderate to high	Breeding-low to moderate; winter-moderate
Brewer's sparrow	Yes	Breeding-moderate to high; winter-moderate	Breeding-not present; winter-moderate	Breeding-not present; winter-moderate	Breeding-low to moderate; winter-moderate
<b>Burrowing owl</b>	Unknown	Breeding-not present; winter-migrant	Breeding-moderate to high; winter-migrant	Breeding-moderate to high; winter-migrant	Breeding-low to moderate; winter-migrant
Calliope Hummingbird	Unknown	Breeding-not present; winter-migrant	Breeding-not present, but may feed; winter-migrant	Breeding-not present, but may feed; winter-migrant	Breeding-not present, but may feed; winter-migrant
<b>Ferruginous Hawk</b>	Yes	Foraging habitat-low	Foraging habitat-moderate to high	Foraging habitat-moderate to high	Foraging habitat-moderate to high
Gray Flycatcher	Unknown	Breeding-not present to low; winter-migrant	Breeding-not present; winter migrant	Breeding-not present to low; winter-migrant	Breeding-low to moderate; winter migrant
Green-Tailed Towhee	Unknown	Breeding-moderate; winter-migrant	Breeding-not present; winter-migrant	Breeding-not present; winter migrant	Breeding-low to moderate; winter-migrant
Kit Fox	Unknown	Low	Moderate	Moderate to high	Moderate to high
Loggerhead Shrike	Yes	Breeding-moderate; winter-low or migrant	Breeding-not present; winter-low or migrant	Breeding-low; winter-low or migrant	Breeding-low to moderate; winter-low or migrant
Prairie Falcon	Yes	Foraging habitat-low	Foraging habitat-moderate	Foraging habitat-moderate to high	Foraging habitat-moderate
Pronghorn Antelope	Yes	Not present	High	High	Moderate to high
<b>Pygmy Rabbit</b>	Unknown	Moderate to high	Not present	Not Present	Low



Species	Present in Project Area	Pre-Treatment	Immediately Post-treatment	10 years Post-treatment	20-years Post-treatment
Sage Sparrow	Yes	Breeding-high; winter-migrant	Breeding-not present; winter-migrant	Breeding-not present; winter-migrant	Breeding-not present to low; winter-migrant
Sage Thrasher	Yes	Breeding-high; winter-migrant	Breeding-not present; winter-migrant	Breeding-not present; winter-migrant	Breeding-not present to low; winter-migrant
Sagebrush Lizard	Yes	Moderate	Not present	Not present	Low to moderate
Sagebrush Vole	Yes	Not present to low	Not present to low	Low to moderate	Moderate to high
Swainson's Hawk	Yes	Foraging habitat- low	Foraging habitat-moderate to high	Foraging habitat-high	Foraging habitat-moderate to high
Vesper Sparrow	Unknown	Breeding-not present; winter-migrant	Breeding-moderate to high; winter-migrant	Breeding-high; winter-migrant	Breeding-moderate to high; winter-migrant
White-Tailed Jackrabbit	Unknown	Not present	Moderate to high	High	Moderate to high
<b>Sage Grouse</b>	Limited Use	Breeding-limited to not present; winter- not present to low	Breeding-low to moderate; winter-low to moderate	Breeding-low to moderate; winter-moderate	Breeding-moderate to low; winter-moderate to low
Number of species for which habitat is optimum		4	6	9	8

**Sensitive species are listed in bold font.**

<sup>1</sup> Response is in terms of relative population. High populations would be limited to optimum habitat quality; Moderate population levels would be associated with good habitat quality; Low population levels would be associated with poor habitat quality; and Not present would be associated with unsuitable habitat quality.

<sup>2</sup> Pre-treatment would be >25% sagebrush shrub canopy cover, <10% perennial grass basal cover, and <5% forb cover. Immediately post-treatment would consist of a grass-forb community with little or no sagebrush. 10-years Post-treatment would consist of a grass-forb community with <10% shrub canopy cover. 20-Years Post-treatment would consist of a sagebrush-herbaceous community with 10-15% shrub canopy cover.

Source: Northeast Nevada Sagebrush Ecosystem Conservation Strategy - Draft, 2002

