

APPENDIX A: VEGETATION COMMUNITIES AND ASSOCIATED WILDLIFE SPECIES

GENERAL CHARACTERISTICS OF THE VEGETATION COMMUNITIES ON BLM-ADMINISTERED PUBLIC LAND IN NEW MEXICO AND TEXAS					
VEGETATION COMMUNITY	BLM LAND (%)	DOMINANT PLANT SPECIES	ELEVATION RANGE (FEET)	CLIMATE AND PRECIPITATION	COMMON WILDLIFE SPECIES
Rocky Mountain Montane Grassland	< .1	Arizona fescue (<i>Festuca arizonica</i>), Mountain muhly (<i>Muhlenbergia Montana</i>), Junegrass (<i>Koeleria cristata</i>), Tufted hairgrass (<i>Deschampsia caespitosa</i>)	> 9,000	Cold-temperate 20-30 inches	Pronghorn (<i>Antilocarpa americana</i>), Elk (<i>Cervis elaphus</i>), Mule deer (<i>Odocoileus hemionus</i>), Voles (<i>Microtus spp.</i>), Western flycatcher (<i>Empidonax difficilis</i>), Western bluebird (<i>Stalia mexicana</i>), Meadowlark (<i>Sturnella neglecta</i>), Salamander (<i>Amystoma tigrinum</i>), Garter snake (<i>Thamnophs elegans</i>)
Plain-Mesa Grassland	9.9	Blue grama (<i>Bouteloua gracilis</i>), Hairy Grama (<i>Bouteloua hirsuta</i>), Sideoats grama (<i>Bouteloua curtipendula</i>), Little bluestem (<i>Schizachyrium scoparium</i>), Western wheatgrass (<i>Pascopyrum smithii</i>), and Sand dropseeds (<i>Sporobolus cryptandrus</i>)	4,000-7,000	Cold-temperate 10-18 inches	Pronghorn (<i>Antilocarpa americana</i>), Prairie Dogs (<i>Cynomys spp.</i>), Pocket gopher (<i>Geomys bursarius</i>), Harvest mouse (<i>Reithrodntomys montanus</i>), Ground squirrel (<i>Spemophilis tridecemlineatus</i>), Fox (<i>Vulpes Velox</i>), Meadowlark (<i>Sturnella neglecta</i>), Prairie falcon (<i>Falco mexicanus</i>), Prairie rattlesnake (<i>Crotalus viridis viridis</i>)
Great Basin Desert Grassland	10.9	Galleta (<i>Hilaria jamesii</i>), Indian ricegrass (<i>Oryzopsis hymenoides</i>), and Alkali sacaton (<i>Sporobolus flexuosus</i>)	4,500-7,200	Cold temperate 8-10 inches	Pronghorn (<i>Antilocarpa americana</i>), Prairie dogs (<i>cynomys spp.</i>), Pocket Gopher (<i>Geomys bursarius</i>), Harvest mouse (<i>Reithrodntomys montanus</i>), Ground squirrel (<i>Spemophilis tridecemlineatus</i>), Fox (<i>Vulpes Velox</i>), Meadowlark (<i>Sturnella neglecta</i>), Black-tailed jack rabbit (<i>Lepus californicus</i>), American kestrel (<i>Falco sparverius</i>), Sagebrush lizard (<i>Sceloporus graciosus</i>)
Chihuahuan Desert Grassland	21.7	Dropseeds (<i>Sporobolus flexuosus</i>) Tobosa (<i>Hilaria mutica</i>), Sacatons (<i>Sporobolus wrightii</i>), Saltgrass (<i>Distichlis spicata</i>), and Vine-mesquite (<i>Panicum obtusum</i>)	3,000-5,500	Warm-temperate 8-12 inches	Desert mule deer (<i>Odocoileus hemionus</i>), Bighorn sheep (<i>Ovis canadensis</i>), Desert cottontail (<i>Sylvilagus audubonii</i>), Blacktailed prairie dog (<i>Cynomys ludovicianus</i>), Quail (<i>Calliepla spp.</i>), Harris hawk (<i>Parabuteo unicinctus</i>), Roadrunner (<i>Geococcyx californianus</i>), Merriam's kangaroo rat (<i>Dipodomys merriami</i>), Greater earless lizard (<i>Cophosaurus texanus</i>)
Rocky Mtn Montane Scrub-Interior Chaparral	3.0	Mountain mohogany (<i>Cercocarpus montanus</i>), Gambel oak (<i>Quercus gambelii</i>), and Wavyleaf oak (<i>Quercus undulata</i>), Shrub live oak (<i>Quercus turbinella</i>), Toumey oak (<i>Quercus toumeyi</i>) and Point-leaf manzanita (<i>Arctostaphylos pungens</i>)	5,500-9,000	Cold to warm temperate 10-20 inches	Mule deer (<i>Odocoileus hemionus</i>), Cliff chipmunk (<i>Eutamias dorsalis</i>), Woodrat (<i>Neotoma albigula</i>), Scrub jay (<i>Aphelocoma coerulescens</i>), Bushtit (<i>Psaltriparus minimus</i>), Towhee (<i>Piplio erythrophthalmus</i>), Rattlesnake (<i>Crotalus viridis</i>), Western fence lizard (<i>Sceloporus occidntalis</i>)
Plain-Mesa Sand Scrub	5.3	Shinoak (<i>Quercus havardii</i>), Sandsage (<i>Artemesia filifolia</i>), White ratany (<i>Krameria grayii</i>), sand bluestem (<i>Andropogon halii</i>), Little bluestem (<i>Schizachyrium scoparium</i>)	3,900-4,200	Warm-temperate 10-14 inches	Mule deer (<i>Odocoileus hemionus</i>), Pronghorn (<i>Antilocarpa americana</i>), Lesser prairie chicken (<i>Tympanuchus pallidicintus</i>), Vesper sparrow (<i>Spizella arborea</i>), Quail (<i>Callipepla spp.</i>), Swainsons Hawk (<i>Buteo swainsoni</i>), Great horned owl (<i>Bubo Virginiatus</i>), Sandune lizard (<i>Sceloporus arenicolus</i>)

**GENERAL CHARACTERISTICS OF THE VEGETATION COMMUNITIES
ON BLM-ADMINISTERED PUBLIC LAND IN NEW MEXICO AND TEXAS (Continued)**

VEGETATION COMMUNITY	BLM LAND (%)	DOMINANT PLANT SPECIES	ELEVATION RANGE (FEET)	CLIMATE AND PRECIPITATION	COMMON WILDLIFE SPECIES
Great Basin Desert Scrub	3.4	Big sagebrush (<i>Artemisia tridentata</i>), Shadscale (<i>Atriplex confertifolia</i>), Fourwing saltbush (<i>Atriplex canescens</i>), Greasewood (<i>Sarcobatus vermiculatus</i>), Winterfat (<i>Krascheninnikovia lanata</i>) and Rubber rabbitbrush (<i>Chrysothamnus nauseosus</i>).	5,250-7,200	Cold temperate < 10 inches	Coyote (<i>Canis latrans</i>), Deer mouse (<i>Peromyscus maniculatus</i>), Black-tailed jack rabbit (<i>Lepus californicus</i>), Sage sparrow (<i>Amphispiza belli</i>), horned lark (<i>Eremophila alpestris</i>), Western whiptail (<i>Cnemidophorus neomexicanus</i>)
Chihuahuan Desert Scrub	30.9	Creosotebush (<i>Larrea tridentata</i>) Tarbush (<i>Flourensia cernua</i>), Honey mesquite (<i>Prosopis glandulosa</i>), Whitethorn (<i>Acacia constricta</i>), Ocotillo (<i>Fouquieria splendens</i>).	3,000-5,000	Warm-temperate <4 to 12	Javalina (<i>Tayassu tajacu</i>), Merriam's Kangaroo rat (<i>Dipodomys merriami</i>), Mearn's grasshopper mouse (<i>Onychomys arenicola</i>), Scaled quail (<i>Callipepla squamata</i>), Mourning dove (<i>Zenaida asiatica</i>), Chihuahuan raven (<i>Corvus cryptoleucus</i>), Clark's spiny lizard (<i>Sceloporus clarkii</i>), Gila monster (<i>Heloderma suspectum</i>)
Southwest and Plains Forested/ Shrub Wetland	.1	Fremont cottonwood (<i>Populus fremontii</i>), Plains cottonwood (<i>Populus sargentii</i>), Arizona walnut (<i>Juglans major</i>), Netleaf hackberry (<i>Celtis reticulata</i>) Willows (<i>Salix spp.</i>) and Seepwillow (<i>Baccharis spp.</i>). Russian olive (<i>Elaeagnus angustifolia</i>) and Saltcedar (<i>Tamaix spp.</i>)	3,000-7,000	Cold to Warm Temperate Various	Red-headed woodpecker (<i>Melanerpes erthrocephalus</i>), American redstart (<i>Setophaga ruticilla</i>), Vermillion flycatcher (<i>Pyrocephalus rubinus</i>), Blue hero (<i>Ardea herodias</i>), Belte kingfisher (<i>Ceryle alcyon</i>), Swallows (<i>Riparia spp.</i>), Warblers (<i>Vermivora spp.</i>), Tiger salamander (<i>Ambystoma tigrinum</i>), Leopard frogs (<i>Rana spp.</i>), Chorus frog (<i>Pseudacris triseriata</i>), numerous fish species
Graminoid Wetlands	266 acres, RFO*	<i>Juncus spp</i> and <i>Carex spp.</i>	3,000-5,000	Cold-temperate > 12 inches	Red-winged blackbird (<i>Agelatus phoeniceus</i>), Pintail (<i>Anas acuta</i>), Teal (<i>Anus cyanoptera</i>), Mallard (<i>Anus platyrhynchos</i>), Marsh wren (<i>Cistothorus palustris</i>)
Closed Conifer Woodland	2.0	Pinyon (<i>Pinus edulis</i>), Junipers, primarily <i>Juniperus monosperma</i>	6,500-8,000	Cold-temperate 16-25 inches	Elk (<i>Cervus elaphus</i>), Golden mantled ground squirrel (<i>Citellus lateralis</i>), Brown bat (<i>Eptesicus fuscus</i>), Porcupine (<i>Erethizon dorsatum</i>), Abert's squirrel (<i>Sciurus aberti</i>), Mule Deer (<i>Odocoileus hemionus</i>), Pgmy nuthatch (<i>Sitta pygmae</i>)
Open Conifer Woodlands (Savanna)	9.3	One-seed Juniper (<i>Juniperus monosperma</i>) and Utah juniper (<i>Juniperus osteosperma</i>)	5,000-7,000	Cold-temperate 12-16 inches	Elk (<i>Cervus elaphus</i>), Pronghorn (<i>Antilocarpa americana</i>), Pinyon deer mouse (<i>Peromyscus truei</i>), Pinyon jay (<i>Gymnorhinus cyanocephalus</i>), Gray vireo (<i>Vireo vicinior</i>)
Madrean Closed Conifer Woodlands	.1	Border pinyon (<i>Pinus discolor</i>), Mexican pinyon (<i>Pinus cembroides</i>) and Alligator juniper (<i>Juniperus deppeana</i>)	5,800-7,500	Warm-temperate 12-16	White-tailed deer (<i>Odocoileus virginianus</i>), Bailey's pocket mouse (<i>Perognatus baileyi</i>), Acorn woodpecker (<i>Melanerpes formicivorus</i>), Western bluebird (<i>Stalia mexicana</i>)
Madrean Open Conifer Woodlands	.7	Gray oak (<i>Quercus grisea</i>), Arizona white oak (<i>Quercus arizonica</i>), Emory oak (<i>Quercus emoryi</i>), Alligator juniper and Shrub liveoak (<i>Quercus turbinella</i>).	4,200-6,800	Warm-temperate 10-12 inches	Javalina (<i>Tayassu tajacu</i>), Quail species, White-tailed deer and Desert mule deer, Trogon (<i>Trogon elegans</i>), Rattlesnake species (<i>Crotalus spp.</i>), Mexican garter snake (<i>Thamnophis eques</i>),

**GENERAL CHARACTERISTICS OF THE VEGETATION COMMUNITIES
ON BLM-ADMINISTERED PUBLIC LAND IN NEW MEXICO AND TEXAS (Concluded)**

VEGETATION COMMUNITY	BLM LAND (%)	DOMINANT PLANT SPECIES	ELEVATION RANGE (FEET)	CLIMATE AND PRECIPITATION	COMMON WILDLIFE SPECIES
Subalpine Conifer Forests	Less than 500 acres	Engelmann spruce (<i>Picea engelmanni</i>), Subalpine fir (<i>Abies bifolia</i>), Douglas-fir (<i>Pseudotsuga menziesii</i>), and White fir (<i>Abies concolor</i>)	9,500-12,000	Cold- temperate > 20 inches	Elk , Deer, Chipmunk (<i>Eutamias minimus</i>), Cassins finch (<i>Carpodacus cassinii</i>), Common flicker (<i>Colaptes auratus</i>), Warbling vireo (<i>Vireo Gilvus</i>), American robin (<i>Turdus migratorius</i>), Pine grosbeak (<i>Pinicola enucleator</i>)
Upper Montane Conifer Forest	<.1	Douglas fir, White fir, and Blue spruce (<i>Picea pungens</i>)	8,000-10,000	Cold –temperate 16-25 inches	Elk, Deer, Chipmunk, Pocket gopher (<i>Thomomys spp.</i>), Voles (<i>Microtus spp.</i>), Goshawk (<i>Accipiter gentiles</i>), Stellar's jay (<i>Cyanocitta stelleri</i>), Western tanager (<i>Piranga ludovciana</i>)
Lower Montane Conifer Forests	<.1	Ponderosa pine (<i>Pinus ponderosa</i>), pinyon, junipers, Gambel oak (<i>Quercus gambellii</i>), Silverleaf oak (<i>Quercus hypoleuoides</i>), Arizona white oak (<i>Quercus arizonica</i>), and Alligator juniper (<i>Juniperus deppeana</i>)	6,500-9,000	Cold-temperate 12-25 inches	Abert's squirrel (<i>Sciurus aberti</i>), Black bear (<i>Ursus amaericanus</i>), Elk, Deer, Chipmunk, Myotis (<i>Myotis spp.</i>), Wild turkey (<i>Melegris galloopavo</i>), Mountain chickadee (<i>Paris gambelii</i>), rattlesnakes, lizards
BLM-Texas SW Plateau and Plains Dry Steppe	11,802 acres, TX	Sideoats grama (<i>Bouteloua curtipendula</i>), Buffalograss (<i>Buchloe dactyoides</i>), Big bluestem (<i>Andropogon gerardii</i>), Little bluestem (<i>Scizachyium scoparian</i>), Tabosa (<i>Pleuraphis mutica</i>), Mesquite , Yucca	3,200-3,500	Semiarid 19 inch mean	Pronghorn (<i>Antilocarpa Americana</i>), Bobcat (<i>Lynx rufus</i>) Mourning dove (<i>Zenaida macroura</i>) , Coyote (<i>Canis latrans</i>), Red fox (<i>Vulpes vulpes</i>) , Red-tailed hawk, (<i>Buteo jamaicensis</i>), Prairie falcon (<i>Falco mexicanus</i>), Rio Grande turkey (<i>Melegris galloopavo intermedia</i>) , Bob white quail (<i>Colinus virginianaus</i>)

NOTE: * Roswell Field Office

SOURCE: New Mexico GAP species list; Brown (1994), BLM (2000)