Federal Agency Approvals Required

Federal law requires conservation programs for all listed endangered and threatened species and their habitats. This requirement can affect all federal agencies.

- Consultations are partnerships between the Fish and Wildlife Service and federal agencies. Federal law requires all federal agencies to participate in conserving listed species, stipulating that agency activities must not be "likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats." Consultations can involve recovering the habitats of listed species, addressing threats to listed species from federal programs or actions, and coordinating projects and resources between federal agencies. Examples of federal activities that require consultations include oil and natural gas drilling on federal land, offshore drilling in areas owned by the federal government, and oil and gas activities affecting wetlands or other waters of the United States.
- Recovery is a process to halt the decline of endangered or threatened populations by removing or reducing threats. In its recovery efforts, the Fish and Wildlife Service collaborates with federal, state, and local agencies, as well as conservation groups, businesses, private individuals, and volunteers. According to the Fish and Wildlife Service, recovery plans are implemented "to stabilize, recover, and ultimately delist" threatened and endangered species.

Potentially endangered/threatened species in the Tombstone MOA

Key ESA-Listed Species in the Tombstone MOA

- Chiricahua Leopard Frog; Mexican Spotted Owl; Twin Spot Rattlesnake; Jaguar; Mexican long-tongued bat; ocelot; Mexican gray wolf; American bison; pronghorn antelope; black-tailed prairie dog; Gila topminnow; green ratsnake; night-blooming cereus.
- For a complete list of all sensitive or endangered species in the Douglas Ranger District, see below.

Sensitive Animal & Plant Species known to or suspected to occur on the Douglas Ranger District of the Coronado National Forest

Name	Description	EMA;
		Findings
- · · · · · · · · · · · · · · · · · · ·	Amphibians	—
Lowland leopard frog <i>Rana yavapaiensis</i>	Restricted to lentic and lotic water systems in the Cloverdale area; stock tanks, stock ponds, etc.	Peloncillo; Species is not known to occur or have habitat on or near the project area, though they may occur elsewhere on the District.
	Birds	
Northern Goshawk Accipiter gentilis	Ponderosa pine, Apache Pine, or mixed conifer forests, including some riparian habitats; 4,750-9,120 ft.	All
Violet-crowned hummingbird Amazilia violiceps	Guadalupe Canyon (Peloncillos); Cave Creek; Riparian woodlandssycamore and some cottonwood-willow along several canyons and creeks; 2800-5500 ft	Peloncillo Chiricahua
Baird's sparrow <i>Ammodramus bairdii</i>	Dense stands of grass, usually in extensive expanses of grasslands; taller, denser grass; south-facing slopes of mixed-oak grasslands where oaks are on the north slope; 4140-4900 ft	All
Arizona grasshopper sparrow Ammodramus savannarum ammolegus	Large expanses of intermediate height grass for nesting; grasslands often include some low, woody shrub component like mesquite and mimosa; nearly 75% ungrazed grass cover, 5% woody cover, and about 20% bare ground; 3800-5300 feet	Peloncillo Chiricahua
Gray hawk Asturina nitida maximus	Riparian woodlands with large trees (cottonwoods), usually near mesquite forest; mostly Sonoran Riparian Deciduous Forest and Woodlands and lesser extent Madrean Evergreen Woodland	Peloncillo
Common black-hawk Buteogallus anthracinus		All
Lucifer hummingbird Calothorax lucifer	Prefer open, arid landscapes, especially with scattered flowering plants such as agave, yucca, ocotillo, penstemon, and paintbrush	Peloncillo Chiricahua
Northern beardless-tyrannulet Camptostoma imberbe	Fairly open riparian woodlands, including lower canyons and heavily wooded dry washes; surface water frequently found near occupied sites, but not a requirement; cottonwood, willow stands and understory of mesquite and locally tamarisk	Peloncillo
Western yellow billed cuckoo Coccyzus americanus occidentalis	See biological assessment.	All
Broad-billed hummingbird Cynanthus latirostris	Perennial drainages dominated by cottonwood and sycamore; at higher elevations found in foothill and canyon bottoms with sycamore, AZ walnut, alligator juniper, and oaks; lower elevations cottonwood, willow, or mesquite dominated woodlands along drainages, lakes, ponds, and springs.	All

Name	Description	EMA;
		Findings
Northern buff-breasted flycatcher	Open stands of pine (especially ponderosa and	Peloncillo
Empidonax fulvifrons pygmaeus	Chiricahua) or sycamore with bare, weedy, or grassy	Chiricahua
	understory areas; riparian vegetation; does not tolerate	
Found and the stand	dense vegetation 5720-8625	Deleverille
Eared quetzal	Madrean pine-oak woodlands and adjacent cool drainages	Peloncillo
Euptilotis neoxenus	and canyons with various species of pine, Douglas-fir,	Chiricahua
	evergreen oak, juniper, madrone, maple, and scattered	
American percering folgen	sycamore.	A II
American peregrine falcon	Near cliffs that support sufficient abundance of prey; steep,	All
Falco peregrinus anatum	sheer cliffs overlooking woodlands, riparian areas or other	
	habitats supporting avian prey species in abundance;	
White eared humminghird	presence of open expanse is critical	A II
White-eared hummingbird	Pine-oak, oak, and pine-evergreen forests, and are also	All
Hylocharis leucotis	found in clearings filled with flowers; lower and middle	
	levels of the forest where they are particularly common near banks of low flowers	
Gould's wild turkey	Evergreen oak woodlands, Madrean pine-oak forests, and	Peloncillo
Meleagris gallopavo mexicana	sycamore dominated drainages; 3800-9300 ft.	Chiricahua
Whiskered screech owl	5,000-8,000 feet; primarily mixed conifer, pine, and pine-	Peloncillo
Otus trichopsis	oak habitats, but also occur locally in woodlands of pinyon-	Chiricahua
Olds inchopsis	juniper, oak and cypress.	Onnicanda
Varied bunting	Brushy arid slopes, canyons, and dry washes; most	Peloncillo
Passerina versicolor	common along drainage edges containing mesquite and	Chiricahua
	netleaf hackberry or with or without a scattering of	onnoanda
	cottonwood, willow, ash, or sycamore; 1350-5100 ft	
Abert's towhee	Understory is dense and the soil is often damp; riparian	All
Pipilo aberti	thickets of cottonwood, willow, seepwillow, and mesquite;	
	dense growth adjacent desert dry washes that empty into	
	the wetter drainages	
Thick-billed kingbird	Guadalupe Canyon (Peloncillos); Deciduous riparian	Peloncillo
Tyrannus crassirostris	woodlands in semi-arid canyons; 3000-6500 ft; mixed	Chiricahua
	groves of sycamores and cottonwoods, while adjoining	
	slopes are covered by oak-pine woodland or mesquite-	
	grasslands	
Fish		I
Longfin dace		Chiricahua
Agosia chrysogaster		
Mexican stoneroller		Chiricahua
Campostoma ornatum	lucanta	
Chiricahua water seevenger heetle	Insects	Chiricahua
Chiricahua water scavenger beetle Cymbiodyta arizonica	Larvae and adults are aquatic, most often along water's edge; pupatation occurs in moist soil along water's edge;	Chinicanua
Cymbiodyla anzonica	most likely creeks although may occur in other shallow	
	habitats including shallows of lakes, temporal pools, etc	
Arizona snaketail		Chiricahua
Ophiogomphus arizonicus		Shinibarida
Four spotted skipperling	Moist woodland openings with lush vegetation, meadows,	Chiricahua
Piruna polingii	ravines, and stream sides in the mountains	
	Mammals	I
Northern pygmy mouse	Variety of habitats with dense ground cover	All
receiver pyging mouse	vanory of hubitato with donoo ground 0000	/ WI

Name	Description	EMA;
		Findings
Mexican long-tongued bat Choeronycteris mexicana	Mesic areas in canyons of mixed oak-conifer forests in mountains rising from the desert; caves and abandoned mines; 2540-7320 ft but most from 4000-6000 ft.	All; Species is not known to have roost habitat on or near the project area,
		though they may occur elsewhere on the District
Pale Townsend's big-eared bat Corynorhinus townsendii pallescens	Caves and mines from desert scrub up to woodlands and coniferous forests; usually above 3000 ft.	All; Species is not known to have roost habitat on or near the project area, though they may occur elsewhere on the District.
Greater western mastiff bat Eumops perotis californicus	Arid and semiarid, rocky canyon country habitats in the Chihuahuan desert; roosts in crevices and shallow caves on the sides of cliffs and rock walls, and occasionally buildings	All
Allen's lappet-browed bat Idionycteris phyllotis	Ponderosa pine, pinyon-juniper, pine-oak woodland, and riparian habitats above 3,000 ft	Chiricahua
Western red bat Lasiurus blossevillii	Riparian and wooded areas; roost in tree foliage, sometimes in leafy shrubs or herbs; primarily roosts in cottonwood trees; 1900-7200 ft	Peloncillo Chiricahua
Western yellow bat Lasiurus xanthinus	Currently in Cave Creek; Extant in Silver Creek (Chiricahuas) and Guadalupe Canyon (Peloncillos); historically in Herb Martyr, SWRS (Chiricahuas) and Hay Hollow Creek (Peloncillos);leafy vegetation such as sycamores, hackberries and cottonwoods; 550-6000 ft	Peloncillo Chiricahua
White-sided jack rabbit Lepus callotis		Peloncillo
California leaf-nosed bat Macrotus californicus		Dragoon
Hooded skunk Mephitis macroura milleri	Rocky ledges or canyons and areas adjacent to streams; in AZ prefers intermediate elevations above deserts but not in highest mountains	All
White-nosed coati Nasua narica	Encinal and Mexican pine-oak woodlands from 4600-7600 ft	All
Cockrum's desert shrew Notiosorex cockrumi	Found in arid areas having adequate cover for resting and nesting; deserts; semiarid grasslands with scattered cactus and yucca; chaparral slopes; alluvial fans; sagebrush; gullies; juniper woodland; riparian associations	Chiricahua
Pocket free-tailed bat Nyctinomops femorosaccus		All
Chiricahua fox squirrel Sciurus nayaritensis chiracahuae	Partially open Apache pine-oak forest with mixed broadleaf deciduous trees, mainly in the thick growth of canyon bottoms; avoids the oak-covered slopes, except when acorns are numerous; 5280-8400 ft	Chiricahua

Name	Description	EMA;
Yellow-nosed cotton rat	Grassy slopes in oak-pine woodlands, and montane	Findings Chiricahua
Sigmodon ochrognathus	meadows within Ponderosa Pine and Douglas fir forests; often associated with rocks	
Arizona shrew Sorex arizonae	Range and habitat needs not clearly known, Usually in close proximity to surface water; interior riparian forest;	Chiricahua
	5165-9200 ft	
<u></u>	Reptiles	
Giant spotted whiptail Aspidoscelis burti stictogrammus	Mountain canyons, arroyos, and mesas in arid and semi- arid regions entering lowland desert along stream courses. Found in dense shrubby vegetation, often among rocks near permanent and intermittent streams. Open areas of bunch grass within these riparian habitats; up to 4500 ft.	All
Twin spotted rattlesnake Crotalus pricei	Chiricahua, Pinaleno, Huachcua, Santa Ritas; Petran subalpine conifer forest and Petran montane conifer forest; most often in taluses and rocky outcrops but it is also common in relatively flat, rockless, open forest; 6000- 11,000	Chiricahua
Arizona ridge-nosed rattlesnake Crotalus willardi willardi		Chiricahua
Mountain skink Eumeces callicephalus	Madrean evergreen woodland and upper reaches of adjoining semi-desert grasslands; often found under rocks, logs, and other surface cover in moist areas such as riparian corridors, rocky canyon bottoms, and grassy hillsides; 3500-6500	Peloncillo
Reticulate Gila monster Heloderma suspectum suspectum	Desert scrub into lower reaches of Great Basin conifer woodlands and Madrean evergreen woodlands; rocky bajadas, hillsides, and in mountainous terrain; up to 5,500 ft	
Slevins bunchgrass lizard Sceloporus slevini	Primarily coniferous forest up to 10,000 ft; rarely desert- grassland. Found on the ground in and among bunchgrass; 4300-9480 ft	
Green ratsnake Senticolis triaspis	Primarily in Madrean evergreen woodland and the upper reaches of adjoining semidesert grasslands; often encountered on relatively exposed, steep, rocky slopes, and along drainages at the base of such slopes; 3600- 8000 ft	
Yaqui black-headed snake Tantilla yaquia	Madrean evergreen woodland and semidesert grasslands; usually found in rocky, wooded canyons and on neighboring slopes; 3300-6000 ft	
	Plants	•
Chiricahua rockcress Arabis tricornuta	Found between 6,000 and 8,840 feet on steep and rock slopes in the understory with pine, and on road banks.	
Lemmon milkweed Asclepias lemmonii	Mountains in canyons, roadsides, and open woodlands; 5500-7000 ft	
Maguire's (coppermine) milkvetch Astragalus cobrensis var. maguirei	Shady canyons (near stream bottoms) and lower ledges both in full sun (often on rocky soils) and in the shade (found on more organic soils composed of leaf litter); 5500-7000 ft possibly up to 9000 ft	
Chihuahuan sedge Carex chihuahuensis	Damp sand, mud, among rocks, streambeds; colluvial slope overlain by boulders, sediment, or granite bedrock and underlain by alluvium; 1109-8000 ft	

Name	Description	EMA; Findings
Cochise sedge	Moist soil near perennially wet springs and streams:	
Carex ultra	undulating rocky-gravelly terrain. 2040-6000 feet	
Trans-pecos Indian paintbrush	Rocky slopes with grassy openings, oak to pine-oak or	
Castilleja nervata	pine woods, rarely in pine fir; 4,200 to 9,640 ft	
Arid throne fleabane	Grasslands and areas of oak woodlands, in grassy	
Erigeron arisolius	openings or on roadsides; often moist areas; typically 4265-5413	
Chiricahua fleabane	Within pine and mixed-conifer forest on shaded, north-	
Erigeron kuschei	facing cliffs and rock ledges carpeted with moss; 6875- 9360 ft	
Wislizeni Gentian	Open meadows, roadsides, and steep unstable slopes in	
Gentianella wislizeni	pine-oak and mixed-conifer forests; 6880-9600 ft	
Arizona alum root	Found in shaded rocky slopes in humus soil near seeps,	
Heuchera glomerulata	streams, and riparian areas.	
Arizona coralroot Hexalectris spicata var. arizonica	In heavy leaf litter in oak, pine, or juniper woodlands over limestone; 5300-6560 ft	
Rusby hawkweed	Mixed conifer forests above 8,000 feet	
Hieracium rusbyi	Destrute conductors'	Dalam '''
New Mexico bitterweed	Rocky to sandy granitic soils on open canyon floors or	Peloncillo
Hymenoxys ambigens var. neomexicana	slopes; oak woodland, Apache pine forests or along intermittent streamsides with Arizona cypress, Arizona	
neomexicana	walnut, and Arizona sycamore; 5400-7250 ft	
Lemon lily	Mesic, shady canyon bottoms along perennial streams or	
Lilium parryi	adjacent hillside springs. Sandy soil is high in organic	
Lindin partyr	material and remains saturated or nearly so, year-round.	
	5,500-7,800 feet.	
Chiricahua mudwort	Muddy edges of ponds and perhaps streams; 5000-6500 ft	
Limosella pubiflora		
Lemmon's lupine <i>Lupinus lemmonii</i>	Open grassland, juniper, and oak communities at 4,000-7,300 feet.	
Catalina beardtongue	Occurs in soil pockets of bare rock outcrops in chaparral or	
Penstemon discolor	pine-oak communities.	
Chiracahua rockdaisy Perityle cochisensis	Endemic to rhyolite cliffs.	Chiricahua
Hinckley's polemonium	Occurs in Ponderosa pine and oak forests up to Douglas	
Polemonium pauciflorum ssp.	and white fir forests in various habitats with moderate	
hinckleyi	disturbance; 6800-9500 ft	
Blumer's dock	Mid- to high-elevation wetlands with moist, organic soil	
Rumex orthoneurus	adjacent to perennial springs or streams in canyons or meadows; 4480-9660 ft	
Chiricahua mountain brookweed	Springs, seeps, and in and along streams; 4000-7200 ft	
Samolus vagans	Intermediate disturbance on atean, really, high alguetter	
Huachuca groundsel Senecio multidentatus var.	Intermediate disturbance on steep, rocky high elevation	
Senecio munidentatus var. huachucanus	mountain slopes and in canyon bottoms within pine-oak or mixed-conifer dominated forests; typically occurs in areas	
naumuuluu	with a patchy matrix of moderate canopy cover and small	
	openings; 7000-9500 ft	
Toumey groundsel	Huachuca and Chiricahua Mts; most common in oak	
Senecio neomexicana var. tourmeyi	chaparral and sometimes in pine forests; 5500-9000 ft	
Nodding blue-eyed grass	Along streams in partial shade; canyons bottoms; wet soil	
Sisyrinchium cernuum	by seeps, pools and springs in desert scrub; also found on	
	sandy stream banks; 3300-8000 ft	

Name	Description	EMA; Findings
Porsild's starwort Stellaria porsildii	Grows in partly shaded understory of mixed conifer or aspen at 7,000-8,200 feet.	
Pinos Altos flame flower <i>Talinum humile</i>	Dry, shallow, gravelly, well-drained, rhyolitic soil terraces, often overlying bedrock. Known populations occur in semi-desert grassland/Madrean evergreen woodland transition communities in AZ. 6000-8000 feet; 5100 feet in AZ; Falk, Jenkins et al. report elevation range from 4000- 5000 feet	Peloncillo
Shade violet Viola umbraticola	Shady areas in canyon bottoms, usually within riparian ponderosa pine forest; 5200-7500 ft	