

**APPENDIX E**

**FEDERALLY LISTED THREATENED AND  
ENDANGERED SPECIES**

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Federally Listed Threatened and Endangered Species within CSBF Operations Area						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
E	A	Ambersnail, Kanab	<i>Oxyloma haydeni kanabensis</i>	AZ	L,O	N
E	A	Amphipod, Noel's	<i>Gammarus deperatus</i>	NM	L,O	N
E	A	Amphipod, Peck's cave	<i>Stygobromus pecki</i>	TX	L,O	Y
E	A	Bat, gray	<i>Myotis grisescens</i>	KS, OK	L,O	N
E	A	Bat, Indiana	<i>Myotis sodalis</i>	KS, OK	L	N
E	A	Bat, lesser long nosed	<i>Leptonycteris curasoae yerbabuena</i>	NM, AZ	L,O	N
E	A	Bat, Mexican long nosed	<i>Leptonycteris nivalis</i>	NM, TX	L,O	N
E	A	Bat, Ozark big-eared	<i>Corynorhinus townsendii ingens</i>	OK	L,O	N
T	A	Bear, grizzly	<i>Ursus arctos horribilis</i>	NM, AZ, CO	L	N
T	A	Bear, Louisiana black	<i>Ursus americanus luteolus</i>	TX	L,O	N
E	A	Beetle, American burying	<i>Nicrophorus americanus</i>	KS, TX, OK	L	N
E	A	Beetle, Coffin Cave mold	<i>Batrisodes teanus</i>	TX	L,O	N
E	A	Beetle, Comal Springs dryopid	<i>Stygoparnus comalensis</i>	TX	L,O	Y
E	A	Beetle, Comal Springs riffle	<i>Heterelmis comalensis</i>	TX	L,O	Y
E	A	Beetle, Helotes mold	<i>Batrisodes venyivi</i>	TX	L,O	Y
E	A	Beetle, Tooth Cave ground	<i>Rhadine presephone</i>	TX	L,O	N
E	A	Bobwhite, masked	<i>Colinus virginianus ridgwayi</i>	AZ	L,O	N
E	A	Butterfly, Uncompahgre fritillary	<i>Boloria acrocne</i>	CO	L,O	N
T	A	Catfish, Yaqui	<i>Ictalurus pricei</i>	AZ	L,O	Y
T	A	Cavefish, Ozark	<i>Amblyopsis rosae</i>	OK	L,O	N
E	A	Chub, bonytail	<i>Gila elegans</i>	AZ, CO	L,O	Y

Federally Listed Threatened and Endangered Species within CSBF Operations Area (cont.)						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
T	A	Chub, Chihuahua	<i>Gila nigrescens</i>	NM	L,O	N
E	A	Chub, Gila	<i>Gila intermedia</i>	NM, AZ	L,O	Y
E	A	Chub, humpback	<i>Gila cypha</i>	AZ, CO	L,O	Y
T	A	Chub, Sonora	<i>Gila ditaenia</i>	AZ	L,O	Y
E	A	Chub, Virgin River	<i>Gila seminuda</i>	AZ	L,O	Y
E	A	Chub, Yaqui	<i>Gila purpurea</i>	AZ	L,O	Y
E	A	Condor, California	<i>Gymnogyps californianus</i>	AZ	L	N
E	A	Crane, whooping	<i>Grus americana</i>	KS, CO, TX, OK	L,O	Y
E	A	Curlew, Eskimo	<i>Numenius borealis</i>	NM, AZ, KS, CO, TX, OK	L	N
E	A	Darter, fountain	<i>Etheostoma fonticola</i>	TX	L,O	Y
T	A	Darter, leopard	<i>Percina pantherina</i>	OK	L,O	Y
T	A	Eagle, bald	<i>Haliaeetus leucocephalus</i>	AZ	O	N
E	A	Falcon, northern aplomado	<i>Falco femoralis septentrionalis</i>	NM, AZ, TX	L	N
E	A	Ferret, black-footed	<i>Mustela nigripes</i>	AZ, CO	L,O	N
E	A	Flycatcher, southwestern willow	<i>Empidonax traillii extimus</i>	NM, AZ, CO, TX	L,O	Y
T	A	Frog, Chiricahua leopard	<i>Rana chiricahuensis</i>	NM, AZ	L,O	N
E	A	Gambusia, Big Bend	<i>Gambusia gaigel</i>	TX	L,O	N
E	A	Gambusia, Clear Creek	<i>Gambusia heterochir</i>	TX	L,O	N
E	A	Gambusia, Pecos	<i>Gambusia nobilis</i>	NM, TX	L,O	N
E	A	Gambusia, San Marcos	<i>Gambusia georgei</i>	TX	L,O	Y
E	A	Ground beetle	<i>Rhadine exilis</i>	TX	L,O	Y

Federally Listed Threatened and Endangered Species within CSBF Operations Area (cont.)						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
E	A	Ground beetle	<i>Rhadine infernalis</i>	TX	L,O	Y
E	A	Harvestman, Bee Creek Cave	<i>Texella reddelli</i>	TX	L,O	N
E	A	Harvestman, Bone Cave	<i>Texella reyesi</i>	TX	L,O	N
E	A	Harvestman, Cokendlopher Cave	<i>Texella cokendolpheri</i>	TX	L,O	Y
E	A	Isopod, Socorro	<i>Thermosphaeroma thermophilus</i>	NM	L,O	N
E	A	Jaguar	<i>Panthera onca</i>	NM, AZ, TX	L,O	N
E	A	Jaguarundi, Gulf Coast	<i>Herpailurus yagouaroundi cacomitil</i>	TX	L,O	N
E	A	Jaguarundi, Sinaloan	<i>Herpailurus yagouaroundi tolteca</i>	AZ	L,O	N
T	A	Lynx, Canada	<i>Lynx canadensis</i>	CO	L,O	N
T	A	Madtom, Neosho	<i>Noturus placidus</i>	KS, OK	L,O	N
E	A	Manatee, West Indian	<i>Trichechus manatus</i>	TX	L,O	N
E	A	Mapleleaf, winged	<i>Quadrula fragosa</i>	OK	L,O	N
E	A	Margay	<i>Leopardus wiedii</i>	TX	L	N
E	A	Meshweaver, Braken Bat Cave	<i>Cicurina venii</i>	TX	L,O	Y
E	A	Meshweaver, Government Canyon Bat Cave	<i>Cicurina verpera</i>	TX	L,O	N
E	A	Meshweaver, Madla's Cave	<i>Cicurina malda</i>	TX	L,O	Y
E	A	Meshweaver, Robber Baron Cave	<i>Cicurina baronia</i>	TX	L,O	Y
T	A	Minnow, Devils River	<i>Dionda diaboli</i>	TX	L,O	Y

Federally Listed Threatened and Endangered Species within CSBF Operations Area (cont.)						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
T	A	Minnow, loach	<i>Tiaroga cobitis</i>	NM, AZ	L,O	Y
E	A	Minnow, Rio Grande silvery	<i>Hybognathus amarus</i>	NM	L,O	Y
T	A	Mouse, Preble's meadow jumping	<i>Zapus hudsonius preblei</i>	CO	L,O	Y
E	A	Mussel, scaleshell	<i>Leptodea leptodon</i>	OK	L,O	N
E	A	Ocelot	<i>Leopardus pardalis</i>	AZ, TX	L,O	N
T	A	Owl, Mexican spotted	<i>Strix occidentalis lucida</i>	NM, AZ, CO, TX	L,O	Y
E	A	Pelican, brown	<i>Pelecanus occidentalis</i>	AZ, TX	O	N
E	A	Pikeminnow	<i>Ptychocheilus lucius</i>	NM, AZ, CO	L,O	Y
T	A	Plover, piping	<i>Charadrius melodis</i>	KS, CO, TX, OK	L,O	Y
E	A	Pocketbook, Ouachita rock	<i>Arkansia wheeleri</i>	OK	L,O	N
E	A	Prairie Chicken, Attwater's greater	<i>Tympanuchus cupido attwaterii</i>	TX	L,O	N
E	A	Pronghorn, Sonoran	<i>Antilocapra americana sonoriensis</i>	AZ	L,O	N
E	A	Pseudoscorpion, Tooth Cave	<i>Tartarocreagris texana</i>	TX	L,O	N
E	A	Pupfish, Comanche Springs	<i>Cyprinodon elegans</i>	TX	L,O	N
E	A	Pupfish, desert	<i>Cyprinodon macularius</i>	AZ	L,O	Y
E	A	Pupfish, Leon Springs	<i>Cyprinodon bovinus</i>	TX	L,O	Y
E	A	Rail, Yuma clapper	<i>Rallus longirostris yumanensis</i>	AZ	L,O	N
T	A	Rattlesnake, New Mexican ridge nosed	<i>Crotalus willardi obscurus</i>	NM, AZ	L,O	Y
E	A	Salamander, Barton Springs	<i>Eurycea sosorum</i>	TX	L,O	N

Federally Listed Threatened and Endangered Species within CSBF Operations Area (cont.)						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
T	A	Salamander, San Marcos	<i>Eurycea nana</i>	TX	L,O	Y
E	A	Salamander, Sonora tiger	<i>Ambystoma tigrinum stebbinsi</i>	AZ	L,O	N
E	A	Salamander, Texas blind	<i>Typhlomolge rathbuni</i>	TX	L,O	N
E	A	Sawfish, smalltooth	<i>Pristis pectinata</i>	TX	L,O	N
T	A	Sea turtle, green	<i>Chelonia mydas</i>	TX	L,O	N
E	A	Sea turtle, hawksbill	<i>Eretmochelys imbricata</i>	TX	L,O	N
E	A	Sea turtle, Kemp's ridley	<i>Lepidochelys kempii</i>	TX	L,O	N
E	A	Sea turtle, leatherback	<i>Dermochelys coriacea</i>	TX	L,O	N
T	A	Sea turtle, loggerhead	<i>Caretta caretta</i>	TX	L,O	N
T	A	Shiner, Arkansas River	<i>Notropis girardi</i>	NM, KS, TX, OK	L,O	Y
T	A	Shiner, beautiful	<i>Cyprinella formosa</i>	NM, AZ	L,O	Y
T	A	Shiner, Pecos bluntnose	<i>Notropis simus pecosensis</i>	NM	L,O	Y
E	A	Shiner, Topeka	<i>Notropis topeka</i>	KS	L,O	Y
T	A	Skipper, Pawnee moutane	<i>Hesperia leonardus montana</i>	CO	L,O	N
E	A	Snail, Pecos assiminea	<i>Assiminea pecos</i>	NM, TX	L,O	Y
T	A	Snake, Concho water	<i>Nerodia paucimaculata</i>	TX	L,O	Y
E	A	Spider, Government Canyon Bat Cave	<i>Neoleptoneta microps</i>	TX	L,O	N
E	A	Spider, Tooth Cave	<i>Leptoneta myopcia</i>	TX	L,O	N
T	A	Spikedace	<i>Meda fulgida</i>	NM, AZ	L,O	Y
T	A	Spinedace, Little Colorado	<i>Lepidomeda vittata</i>	AZ	L,O	Y
E	A	Springsnail, Alamosa	<i>Tryonia alamosae</i>	NM	L,O	N

Federally Listed Threatened and Endangered Species within CSBF Operations Area (cont.)						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
E	A	Springsnail, Koster's	<i>Juturnia kosteri</i>	NM	L,O	N
E	A	Springsnail, Roswell	<i>Pyrgulopsis roswellensis</i>	NM	L,O	N
E	A	Springsnail, Socorro	<i>Pyrgulopsis neomexicana</i>	NM	L,O	N
E	A	Squirrel, Mount Graham red	<i>Tamiasciurus hudsonicus grahamensis</i>	AZ	L,O	Y
E	A	Sturgeon, pallid	<i>Scaphirhynchus albus</i>	KS	L,O	N
E	A	Sucker, razorback	<i>Xyrauchen texanus</i>	NM, AZ, CO	L,O	Y
E	A	Tern, least	<i>Sterna antillarum</i>	NM, KS, CO, TX, OK	L,O	N
E	A	Toad, Houston	<i>Bufo houstonensis</i>	TX	L,O	Y
E	A	Topminnow, Gila	<i>Poeciliopsis occidentalis</i>	NM, AZ	L,O	N
T	A	Tortoise, desert	<i>Gopherus agassizii</i>	AZ	O	Y
T	A	Trout, Apache	<i>Oncorhynchus apache</i>	AZ	L,O	N
E	A	Trout, Gila	<i>Oncorhynchus gilae</i>	NM, AZ	L,O	N
T	A	Trout, greenback	<i>Oncorhynchus clarki stomias</i>	CO	L,O	N
E	A	Vireo, black-capped	<i>Vireo atricapilla</i>	KS, TX, OK	L,O	N
E	A	Vole, Hualapai Mexican	<i>Microtus mexicanus hualpaiensis</i>	AZ	L,O	N
E	A	Warbler, golden-cheeked	<i>Dendroica chrysoparia</i>	TX	L,O	N
E	A	Whale, finback	<i>Balaenoptera physalus</i>	TX	L,O	N
E	A	Whale, humpback	<i>Megaptera novaeangliae</i>	TX	L,O	N
E	A	Wolf, gray	<i>Canis lupus</i>	NM, AZ, KS, CO, TX, OK	L,O	N
E	A	Wolf, red	<i>Canis rufus</i>	TX	L	N
E	A	Woodpecker, ivory-billed	<i>Campephilus principalis</i>	TX, OK	L	N

Federally Listed Threatened and Endangered Species within CSBF Operations Area (cont.)						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
E	A	Woodpecker, red-cockaded	<i>Picoides borealis</i>	TX, OK	L,O	N
E	A	Woundfin	<i>Plagopterus argentissimus</i>	NM, AZ	O	Y
E	P	Ambrosia, south Texas	<i>Ambrosia cheiranthifolia</i>	TX	L,O	N
E	P	Ayenia, Texas	<i>Ayenia limitaris</i>	TX	L,O	N
E	P	Beardtongue, Penland	<i>Penstemon penlandii</i>	CO	L,O	N
T	P	Bladderpod, Dudley Bluffs	<i>Lesquerella congesta</i>	CO	L,O	N
E	P	Bladderpod, white	<i>Lesquerella pallida</i>	TX	L,O	N
E	P	Bladderpod, Zapata	<i>Lesquerella thamnophila</i>	TX	L,O	Y
E	P	Blue-star, Kearney's	<i>Amsonia kearneyana</i>	AZ	L,O	N
T	P	Butterfly plant, Colorado	<i>Gaura neomexicana</i> var. <i>coloradensis</i>	CO	L,O	Y
E	P	Cactus, Arizona hedgehog	<i>Echinocereus triglochidiatus</i> var. <i>arizonicus</i>	AZ	L,O	N
E	P	Cactus, black lace	<i>Echinocereus reichenbachii</i> var. <i>albertii</i>	TX	L,O	N
E	P	Cactus, Brady pincushion	<i>Pediocactus bradyi</i>	AZ	L,O	N
E	P	Cactus, Chisos Mountian hedgehog	<i>Echinocereus chisoensis</i> var. <i>chisoensis</i>	TX	L,O	N
T	P	Cactus, Cochise pincushion	<i>Coryphantha robbinsorum</i>	AZ	L,O	N
E	P	Cactus, Knowlton	<i>Pediocactus knowltonii</i>	NM, CO	L,O	N
E	P	Cactus, Kuenzler hedgehog	<i>Echinocereus fendleri</i> var. <i>kuenzleri</i>	NM	L,O	N
T	P	Cactus, Lee pincushion	<i>Coryphantha sneedii</i> var. <i>leei</i>	NM	L,O	N



Federally Listed Threatened and Endangered Species within CSBF Operations Area (cont.)						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
T	P	Cactus, Lloyd's Mariposa	<i>Echinomastus mariposensis</i>	TX	L,O	N
T	P	Cactus, Mesa Verde	<i>Sclerocactus mesae-verdae</i>	NM, CO	L,O	N
E	P	Cactus, Nellie cory	<i>Coryphanta minima</i>	TX	L,O	N
E	P	Cactus, Nichol's Turk's head	<i>Echinocactus horizontalonius var. nicholii</i>	AZ	L,O	N
E	P	Cactus, Peebles Navajo	<i>Pediocactus peeblesianus peeblesianus</i>	AZ	L,O	N
E	P	Cactus, Pima pineapple	<i>Coryphanta scheeri var. robustispina</i>	AZ	L,O	N
T	P	Cactus, Siler pincushion	<i>Pediocactus sileri</i>	AZ	L,O	N
E	P	Cactus, Sneed pincushion	<i>Coryphantha sneedii var. sneedii</i>	NM, TX	L,O	N
E	P	Cactus, star	<i>Astrophytum asterias</i>	TX	L,O	N
E	P	Cactus, Tobusch fishhook	<i>Ancistrocactus tobuschii</i>	TX	L,O	N
T	P	Cactus, Uinta Basin hookless	<i>Sclerocactus glaucus</i>	CO	L,O	N
E	P	Cat's eye, Terlingua Creek	<i>Cryptantha crassipes</i>	TX	L,O	N
E	P	Cliff-rose, Arizona	<i>Purshia subintegra</i>	AZ	L,O	N
E	P	Clover, running-buffalo	<i>Trifolium stoloniferum</i>	KS	L	N
T	P	Cory cactus, bunched	<i>Coryphantha ramillosa</i>	TX	L,O	N
T	P	Cycladenia, Jones	<i>Cycladenia jonesii</i>	AZ	L,O	N
E	P	Dawn-flower, Texas prairie	<i>Hymenoxys texana</i>	TX	L,O	N
E	P	Dogweed, ashy	<i>Thymophylla tephroleuca</i>	TX	L,O	N
T	P	Fleabane, Zuni	<i>Erigeron rhizomatus</i>	NM, AZ	L,O	N

Federally Listed Threatened and Endangered Species within CSBF Operations Area (cont.)						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
E	P	Frankenia, Johnston's	<i>Frankenia johnstonii</i>	TX	L,O	N
T	P	Groundsel, San Francisco Peaks	<i>Senecio franciscanus</i>	AZ	L,O	Y
E	P	Ipomopsis, Holy Ghost	<i>Ipomopsis sancti-spiritus</i>	NM	L,O	N
E	P	Ladies'-tresses, Canelo Hills	<i>Spiranthes delitescens</i>	AZ	L,O	N
E	P	Ladies'-tresses, Navasota	<i>Spiranthes parksii</i>	TX	L,O	N
T	P	Ladies'-tresses, Ute	<i>Spiranthes diluvialis</i>	CO	L,O	N
E	P	Manioc, Walker's	<i>Manihot walkerae</i>	TX	L,O	N
E	P	Milk-vetch, Holmgren	<i>Astragalus holmgreniorum</i>	AZ	L,O	Y
E	P	Milk-vetch, Mancos	<i>Astragalus humilimus</i>	NM, CO	L,O	N
E	P	Milk-vetch, Osterhout	<i>Astragalus osterhoutii</i>	CO	L,O	N
E	P	Milk-vetch, Sentry	<i>Astragalus cremnophylax var cremnophylax</i>	AZ	L,O	N
T	P	Milkweed, Welsh's	<i>Asclepias welshii</i>	AZ	L,O	N
T	P	Milkweed, Mead's	<i>Asclepias meadii</i>	KS	L,O	N
T	P	Mustard, Penland alpine fen	<i>Eutrema penlandii</i>	CO	L,O	N
T	P	no common name	<i>Geocarpon minimum</i>	TX	O	N
T	P	Oak, Hinckley	<i>Quercus hinckleyi</i>	TX	L,O	N
T	P	Orchid, eastern prairie fringed	<i>Platanthera leucophaea</i>	OK	L,O	N
T	P	Orchid, wetern prairie fringed	<i>Platanthera praeclara</i>	KS, OK	L,O	N
E	P	Pennyroyal, Todsens	<i>Hedeoma todsenii</i>	NM	L,O	Y
E	P	Phacelia, North Park	<i>Phacelia formosula</i>	CO	L,O	N

Federally Listed Threatened and Endangered Species within CSBF Operations Area (cont.)						
Status	Animal or Plant	Common Name	Scientific Name	State	Listed or Occur	Designated Critical Habitat
E	P	Phlox, Texas trailing	<i>Phlox nivalis ssp. Texensis</i>	TX	L,O	N
E	P	Pitaya, Davis' green	<i>Enchinocereus viridiflorus var. davisii</i>	TX	L,O	N
E	P	Pondweed, Little Aguja	<i>Potamogeton clystocarpus</i>	TX	L,O	N
E	P	Poppy, Sacramento prickly	<i>Argemone pleiacantha ssp. Pinnatisecta</i>	NM	L,O	N
E	P	Poppy-mallow, Texas	<i>Callirhoe scabriuscula</i>	TX	L,O	N
E	P	Rush-pea, slender	<i>Hoffmannseggia tenella</i>	TX	L,O	N
E	P	Sand-verbena, large-fruited	<i>Abronia macrocarpa</i>	TX	L,O	N
T	P	Sedge, Navajo	<i>Carex specuicola</i>	AZ	L,O	Y
E	P	Snowbells, Texas	<i>Styrax texanus</i>	TX	L,O	N
T	P	Sunflower, Pecos	<i>Helianthus paradoxus</i>	NM, TX	L,O	N
T	P	Thistle, Sacramento Mountains	<i>Cirsium vinaceum</i>	NM	L,O	N
T	P	Twinpod, Dudley Bluffs	<i>Physaria obcordata</i>	CO	L,O	N
E	P	Water-umbrel, Huachuca	<i>Lilaeopsis schaffneriana var. recurva</i>	AZ	L,O	Y
E	P	Wild-buckwheat, clay-loving	<i>Eriogonum pelinophilum</i>	CO	L,O	Y
T	P	Wild-buckwheat, gypsum	<i>Eriogonum gypsophilum</i>	NM	L,O	Y
E	P	Wild-rice, Texas	<i>Zizania texana</i>	TX	L,O	Y

Source: USFWS 2009b

Notes: E = Endangered; T = Threatened; A = Animal; P = Plant; L = Listed; O = Occurs; Y = Yes; N = No