

## Appendix A

### Application of the Criteria Used To Select the Species of Greatest Conservation Need

The specific criteria used to include or exclude species in the list of species of greatest conservation need are:

*Meeting any of the Following*

Inclusion Criteria	Listed as federal candidate (C), threatened (T) or endangered (E) species under the ESA. Classified as state endangered (E), threatened (T), or species of special concern (SC). Global ranking scores of G1, G2 or G3 by the Colorado Natural Heritage Program <sup>1</sup> . Identified as conservation priorities through a range-wide status assessment or assessment of large taxonomic divisions. Assigned state ranking scores of S1 or S2 AND a global ranking score of G4 by the Colorado Natural Heritage Program <sup>2</sup> .
Exclusion Criteria	<i>Species meeting the inclusion criteria were eliminated from the Species of Greatest Conservation Need listing if they met any of the following:</i> Occurs peripherally in Colorado but is common elsewhere AND for which management actions in Colorado are likely to have no population-level effect. Very common but were placed on lists due to economic considerations (e.g., Mallard).

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<sup>1</sup> G1 is critically imperiled globally because of rarity (5 or fewer occurrences in the world; or very few remaining individuals), or because some factor of its biology makes it especially vulnerable to extinction. G2 is imperiled globally because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range. G3 is vulnerable throughout its range or found locally in a restricted range (21 to 100 occurrences). From: Colorado Natural Heritage Program, <http://www.cnhp.colostate.edu>.

<sup>2</sup> S1 is critically imperiled in state because of rarity (5 or fewer occurrences in the state; or very few remaining individuals), or because some factor of its biology makes it especially vulnerable to extinction. S2 is imperiled in state because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range. G4 is apparently secure in state, though it might be quite rare in parts of its range, especially at the periphery. From: Colorado Natural Heritage Program, <http://www.cnhp.colostate.edu>.

Table A1 - Mollusks - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<i>Acroloxus coloradensis</i>	Rocky Mountain Capshell		SC	G1G2	S1	
<i>Anodontoides ferussacianus</i>	Cylindrical papershell		SC	G5	S2	
<i>Ferrissia fragilis</i>				G5	S2	
<i>Ferrissia walkeri</i>				G4G5	S3	
<i>Physa cupreonitens</i>	Hot Springs Physa			G2	S2	
<i>Physa utahensis</i>	Banded Physa			G2	S1	
<i>Promenetus exacuouus</i>				G5	S2	
<i>Promenetus umbillicatellus</i>				G4	S3	
<i>Uniomereus tetralasmus</i>	Pondhorn			G4	S1	

Table A2 - Insects - Species of greatest conservation concern (Science Forum Results).						
Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<b>Stoneflies (Plecoptera)</b>						
<i>Capnia arapahoe</i>	Arapahoe Snowfly					1/
<i>Capnia nelsoni</i>	Nelson's snowfly					1/
<i>Mesocapnia frisoni</i>	Plains Snowfly					1/
<b>Mayflies (Ephemeroptera)</b>						
<i>Ametropus albrighti</i>	Mayfly, spp.					1/
<b>Dragonflies and Damselflies (Odonata)</b>						
<i>Argia alberta</i>	Paiute Dancer			G4	S1S2	
<i>Gomphus intricatus</i>	Brimstone Clubtail			G4	S2	
<i>Libellula nodisticta</i> <sup>1/</sup>	Hoary Skimmer			G4	S1	
<i>Somatochlora ensigera</i>	Lemon-faced Emerald			G4	S1	
<i>Sympetrum madidum</i>	Red-veined Meadowfly			G4	S1	
<i>Tetragoneuria petechialis</i>	Stripe-winged Baskettail			G4	S2	
<b>Beetles (Coleoptera)</b>						
<i>Amblyderus weneri</i>	Great Sand Dunes Anthicid Beetle			G1?	S1	
<i>Cicindela theatina</i>	San Luis Dunes Tiger Beetle			G1	S1	
<b>Butterflies and Moths (Lepidoptera)</b>						
<i>Atrytone arogos</i>	Arogos Skipper			G3G4	S2	
<i>Euphyes bimacula</i>	Two-spotted Skipper			G4	S2	
<i>Hesperia leonardus Montana</i> <sup>++</sup>	Pawnee Montane Skipper	T		G4T1	S1	
<i>Hesperia ottoe</i>	Ottoe Skipper			G3G4	S2	
<i>Polites rhesus</i>	Rhesus Skipper			G4	S2S3	
<i>Pyrgus xanthus</i>	Xanthus Skipper			G3G4	S3	
<i>Erynnis martialis</i>	Mottled Duskywing			G3G4	S2S3	
<b>Gossamer-winged Butterflies</b>						
<i>Callophrys comstocki</i>	Comstock's Hairstreak			G2G3	S1	
<i>Callophrys mcfarlandi</i>	Sandia Hairstreak			G4	S1	
<i>Callophrys mossii schryveri</i>	Moss's Elfin			G3G4T3	S2S3	
<i>Celastrina humulus</i>	Hops Feeding Azure			G2G3	S2	
<i>Euphilotes rita</i>	Colorado Blue			G3G4T2T3	S2	

Table A2 - Insects - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<i>coloradensis</i>						
<i>Euphilotes rita emmeli</i>	Desert Buckwheat Blue			G3G4T2	S1	
<i>Euphilotes spaldingi</i>	Spalding's Blue			G3G4	S2S3	
<i>Eurystrymon favonius ontario</i>	Northern Hairstreak			G4T4	S1	
<i>Incisalia fotis</i>	Early Elfin			G3G4	S2S3	
<b>Brush-footed Butterflies</b>						
<i>Boloria improba acrochema</i> <sup>+++</sup>	Uncompahgre fritillary	E				
<i>Speyeria idalia</i>	Regal fritillary			G3	S1	
<i>Speyeria nokomis nokomis</i>	Great Basin Silverspot Butterfly			G3T1	S1	
<b>Satyrids</b>						
<i>Agapema homogena</i>	Rocky Mountain Agapema			G4	S2	
<i>Anisota oslari</i>	Oslar's Oakworm Moth			G2G4	S1	
<i>Coloradia luski</i>	Lusk's Pinemoth			G4	S1?	
<i>Hemileuca neumoegeni</i>	A Buckmoth			G4	S1	
<b>Sphinx Moths</b>						
<i>Euproserpinus wiesti</i>	Wiest's Sphinx Moth			G3G4	S2	
<i>Proserpinus flavofasciata</i>	Yellow-banded Day Sphinx			G4	S1	
<i>Sagenosoma elsa</i>	A Sphinx Moth			G4	S1?	
<p>1/ Added in the Science forum (Source: Dr. Boris Kondratieff, Colorado State University.  <sup>++</sup> U.S. Fish and Wildlife Service. 1998. Pawnee montane skipper butterfly (<i>Hesperia leonardus Montana</i>) recovery plan. Denver, CO 16 pp.  <sup>+++</sup> Fish and Wildlife Service. 1994. Uncompahgre fritillary butterfly recovery plan. Denver, CO. 20pp.</p>						

Table A3 - Arachnids - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<i>Hypochoilus bonneti</i>	A lampshade spider					<u>1/</u>

1/ Added as a result of review by the scientists participating in the Questionnaire and Science Forum.

Table A4 - Reptiles - Species of greatest conservation concern (Science Forum Results).						
Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<b>Turtles</b>						
<i>Kinosternon flavescens</i>	Yellow mud turtle		SC	Not Tracked	Not Tracked	
<b>Lizards</b>						
<i>Gambelia wislizenii</i>	Longnose leopard lizard		SC	Not Tracked	Not Tracked	
<i>Phrynosoma cornutum</i>	Texas horned lizard		SC	Not Tracked	Not Tracked	
<i>Phrynosoma modestum</i>	Roundtail horned lizard		SC	Not Tracked	Not Tracked	
<i>Cnemidophorus neotesselatus</i>	Triploid checkered whiptail		SC	Not Tracked	Not Tracked	
<b>Snakes</b>						
<i>Leptotyphlops dulcis</i>	Texas blind snake		SC	Not Tracked	Not Tracked	
<i>Hypsiglena torquata</i>	Night snake		SC	Not Tracked	Not Tracked	
<i>Lampropeltis getula</i>	Common kingsnake		SC	Not Tracked	Not Tracked	
<i>Rhinocheilus lecontei</i>	Long-nosed snake					<u>1/</u>
<i>Tantilla horbartsmithi</i>	Southwestern black-headed snake					<u>1/</u>
<i>Thamnophis cyrtopsi</i>	Blacknecked garter snake					<u>1/</u>
<i>Thamnophis sirtalis</i>	Common garter snake		SC	Not Tracked	Not Tracked	
<i>Crotalus viridis concolor</i>	Midget faded rattlesnake		SC	Not Tracked	Not Tracked	
<i>Sistrurus catenatus</i>	Massasauga		SC	Not Tracked	Not Tracked	
Classification scheme from: Hammerson, G. 2000. Amphibians and reptiles of Colorado. 2 <sup>nd</sup> ed. University Press of Colorado, Boulder, CO.						
1/ Added as a result of review by the scientists participating in the Questionnaire and Science Forum.						

Table A5 - Amphibians - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<b>Toads</b>						
<i>Scaphiopus couchii</i>	Couch's Spadefoot		SC	G5	S1	
<i>Bufo boreas boreas</i>	Boreal Toad (Southern Rocky Mountain Population)		E	G4T1Q	S1	
<i>Bufo debilis</i>	Green toad					<u>1/</u>
<b>Frogs</b>						
<i>Acris crepitans</i>	Northern cricket frog		SC	Not Tracked	Not Tracked	
<i>Hyla arenicolor</i>	Canyon tree frog					<u>1/</u>
<i>Gastrophryne olivacea</i>	Great Plains Narrowmouth Toad		SC	G5	S1	
<i>Rana blairi</i>	Plains Leopard Frog		SC	G5	S3	
<i>Rana pipiens</i>	Northern Leopard Frog		SC	G5	S3	
<i>Rana sylvatica</i>	Wood Frog		SC	G5	S3	
Classification scheme from: Hammerson, G. 2000. Amphibians and reptiles of Colorado. 2 <sup>nd</sup> ed. University Press of Colorado, Boulder, CO. <u>1/</u> Added as a result of review by the scientists participating in the Questionnaire and Science Forum.						

Table A6 - Fish - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<b>Sunfishes</b>						
<i>Lepomis humilis</i>	Orangespotted sunfish					<u>1/</u>
<b>Catfishes</b>						
<i>Noturus flavus</i>	Stonecat		SC	Not Tracked	Not Tracked	
<b>Perch-like Fishes</b>						
<i>Etheostoma cragini</i>	Arkansas Darter		T	G3	S2	
<i>Etheostoma exile</i>	Iowa darter		SC	Not Tracked	Not Tracked	
<i>Etheostoma spectabile</i>	Plains orangethroat darter		SC	Not Tracked	Not Tracked	
<b>Suckers</b>						
<i>Catostomas discobolus</i>	Bluehead Sucker					X
<i>Catostomas latipinnis</i>	Flannelmouth Sucker					X
<i>Catostomus playtrhynchus</i>	Mountain sucker		SC	Not Tracked	Not Tracked	
<i>Catostomus plebeius</i>	Rio Grande Sucker		E	G3G4	S1	
<i>Xyrauchen texanus</i>	Razorback Sucker	E	E	G1	S1	X
<b>Minnnows</b>						
<i>Gila elegans</i>	Bonytail	E	E			X
<i>Ptychocheilus lucius</i>	Colorado Pikeminnow	E	T	G1	S1	X
<i>Hybognathus hankinsoni</i>	Brassy minnow		T	Not Tracked	Not Tracked	
<i>Luxilus cornutus</i>	Common shiner		T	Not Tracked	Not Tracked	
<i>Platygobio gracilis</i>	Flathead chub			Not Tracked	Not Tracked	<u>1/</u>
<i>Gila cypha</i>	Humpback Chub	E	T	G1	S1	X
<i>Couesius plumbeus</i>	Lake Chub		E	Not Tracked	Not Tracked	
<i>Hybognathus placitus</i>	Plains minnow		E	Not Tracked	Not Tracked	NatureServe G4
<i>Phoxinus eos</i>	Northern Redbelly Dace		E	G5	S1	
<i>Gila pandora</i>	Rio Grande Chub		SC	G3	S1?	
<i>Gila robusta</i>	Roundtail Chub		SC	G3	S2	
<i>Phoxinus erythrogaster</i>	Southern Redbelly Dace		E	G5	S1	
<i>Phenacobius mirabilis</i>	Suckermouth minnow		E	Not Tracked	Not Tracked	



Table A6 - Fish - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<b>Trouts</b>						
<i>Oncorhynchus clarki pleuriticus</i>	Colorado River Cutthroat Trout		SC	G4T3	S3	X
<i>Oncorhynchus clarki stomias</i>	Greenback Cutthroat Trout	T	T	G4T2T3	S2	X
<i>Oncorhynchus clarki virginalis</i>	Rio Grande Cutthroat Trout		SC	G4T3	S3	X
<u>1/</u> Added as a result of review by the scientists participating in the Questionnaire and Science Forum.						

Table A7 - Birds - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<b>Grebes</b>						
<i>Podiceps nigricollis</i>	Eared Grebe					1/
<i>Aechmophorus occidentalis</i>	Western Grebe					1/
<b>Pelicans</b>						
<i>Pelecanus erythrorhynchos</i>	American White Pelican			G3	S1B	X
<b>Hérons</b>						
<i>Botaurus lentiginosus</i>	American Bittern			Not Tracked	Not Tracked	X
<i>Egretta thula</i>	Snowy Egret			G5	S2B	X
<i>Plegadis chihi</i>	White-faced Ibis			G5	S2B	X
<b>Swans, Geese, and Ducks</b>						
<i>Aythya affinis</i>	Lesser Scaup			Not Tracked	Not Tracked	X
<i>Anas acuta</i>	Northern Pintail			Not Tracked	Not Tracked	X
<i>Bucephala islandica</i>	Barrow's Goldeneye					1/
<b>Kites, Eagles, and Hawks</b>						
<i>Pandion haliaetus</i>	Osprey			Not Tracked	Not Tracked	X
<i>Haliaeetus leucocephalus</i>	Bald Eagle	X	T	G4	S1B,S3N	
<i>Circus cyaneus</i>	Northern Harrier			Not Tracked	Not Tracked	X
<i>Accipiter gentilis</i>	Northern Goshawk			G5	S3B	X
<i>Buteo swainsoni</i>	Swainson's Hawk			Not Tracked	Not Tracked	X
<i>Buteo regalis</i>	Ferruginous Hawk		SC	G4	S3B,S4N	
<i>Aquila chrysaetos</i>	Golden Eagle			Not Tracked	Not Tracked	X
<b>Falcons</b>						
<i>Falco peregrinus anatum</i>	American Peregrine Falcon		SC	G4T3	S2B	
<i>Falco mexicanus</i>	Prairie Falcon			Not Tracked	Not Tracked	X NatureServe G5
<b>Partridges, Grouse, Turkeys, and Quail</b>						
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse		SC	Not Tracked	Not Tracked	NatureServe G4
<i>Centrocercus minimus</i>	Gunnison Sage Grouse		SC	G1	S1	
<i>Lagopus leucurus</i>	White-tailed Ptarmigan					1/

Table A7 - Birds - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<i>Tympanuchus cupido</i>	Greater Prairie Chicken			Not Tracked	Not Tracked	X
<i>Dendragapus obscurus</i>	Blue Grouse			Not Tracked	Not Tracked	X
<i>Tympanuchus phasianellus columbianus</i>	Columbian Sharp-tailed Grouse		SC	G4T3	S2	
<i>Tympanuchus phasianellus jamesii</i>	Plains Sharp-tailed Grouse		E	G4T4	S1	
<i>Tympanuchus pallidicinctus</i>	Lesser Prairie-chicken		T	G3	S2	
<i>Callipepla squamata</i>	Scaled Quail			Not Tracked	Not Tracked	X
<b>Rails, Gallinules, and Coots</b>						
<i>Laterallus jamaicensis</i>	Black Rail					1/
<b>Cranes</b>						
<i>Grus canadensis tabida</i>	Greater Sandhill Crane		SC	G5T4	S2B, S4N	
<i>Grus americana</i>	Whooping Crane	E	E	Not Tracked	Not Tracked	
<b>Plovers</b>						
<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover		SC	G4T3	S1B	
<i>Charadrius melodus</i>	Piping Plover	T	T	G3	S1B	
<i>Charadrius montanus</i>	Mountain Plover		SC	G2	S2B	
<b>Sandpipers and Phalaropes</b>						
<i>Bartramia longicauda</i>	Upland Sandpiper			Not Tracked	Not Tracked	X
<i>Numenius americanus</i>	Long-billed Curlew		SC	G5	S2B	X
<i>Limosa fedoa</i>	Marbled Godwit					X
<i>Phalaropus tricolor</i>	Wilson's Phalarope			Not Tracked	Not Tracked	X
<b>Jaegers, Gulls, and Terns</b>						
<i>Sterna forsteri</i>	Forster's Tern					1/
<i>Sterna antillarum</i>	Least Tern	E	E	G4	S1B	
<b>Pigeons and Doves</b>						
<i>Patagioenas fasciata</i>	Band-tailed Pigeon			Not Tracked	Not Tracked	X
<b>Cuckoos, Roadrunners, and Anis</b>						

Table A7 - Birds - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<i>Coccyzus americanus</i>	Western Yellow-billed Cuckoo		SC	Not Tracked	Not Tracked	
<b>Owls</b>						
<i>Athene cunicularia hypugaea</i>	Western Burrowing Owl		T	Not Tracked	Not Tracked	X
<i>Otus flammeolus</i>	Flammulated Owl			Not Tracked	Not Tracked	X
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	T	T	G3T3	S1B,SUN	
<i>Asio flammeus</i>	Short-eared Owl			G5	S2B	X
<i>Aegolius funereus</i>	Boreal Owl					1/
<b>Swifts</b>						
<i>Cypseloides niger</i>	Black Swift			G4	S3B	X
<i>Aeronautes saxatalis</i>	White-throated Swift			Not Tracked	Not Tracked	X
<b>Hummingbirds</b>						
<i>Archilochus alexandri</i>	Black-chinned Hummingbird			Not Tracked	Not Tracked	X
<i>Selasphorus platycercus</i>	Broad-tailed Hummingbird			Not Tracked	Not Tracked	X
<i>Selasphorus rufus</i>	Rufous Hummingbird			Not Tracked	Not Tracked	X
<b>Woodpeckers</b>						
<i>Melanerpes lewis</i>	Lewis's Woodpecker			Not Tracked	Not Tracked	X
<i>Sphyrapicus thyroideus</i>	Williamson's Sapsucker			Not Tracked	Not Tracked	X
<i>Sphyrapicus nuchalis</i>	Red-naped Sapsucker			Not Tracked	Not Tracked	X
<i>Picoides dorsalis</i>	American Three-toed Woodpecker					1/
<b>Flycatchers</b>						
<i>Contopus cooperi</i>	Olive-sided Flycatcher			Not Tracked	Not Tracked	X
<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher	E	E	Not Tracked	Not Tracked	
<i>Empidonax wrightii</i>	Gray Flycatcher			Not Tracked	Not Tracked	X
<i>Empidonax oberholseri</i>	Dusky Flycatcher			Not Tracked	Not Tracked	X
<i>Empidonax occidentalis</i>	Cordilleran Flycatcher			Not Tracked	Not Tracked	X
<b>Shrikes</b>						

Table A7 - Birds - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<i>Lanius ludovicianus</i>	Loggerhead Shrike					1/
<b>Vireos</b>						
<i>Vireo vicinior</i>	Gray Vireo			G4	S2B	X
<b>Jays, Magpies, and Crows</b>						
<i>Gymnorhinus cyanocephalus</i>	Pinyon Jay			Not Tracked	Not Tracked	X
<b>Swallows</b>						
<i>Progne subis hesperia</i>	Western Purple Martin					1/
<b>Chickadees and Titmice</b>						
<i>Baeolophus ridgwayi</i>	Juniper Titmouse			Not Tracked	Not Tracked	X
<b>Nutatches</b>						
<i>Sitta pygmaea</i>	Pygmy Nuthatch			Not Tracked	Not Tracked	X
<b>Dippers</b>						
<i>Cinclus mexicanus</i>	American Dipper			Not Tracked	Not Tracked	X
<b>Kinglets, Gnatcatchers, and Thrushes</b>						
<i>Catharus fuscescens</i>	Veery					1/
<i>Toxostoma curvirostre</i>	Curve-billed Thrasher					X
<b>Wood-Warblers</b>						
<i>Vermivora virginiae</i>	Virginia's Warbler			Not Tracked	Not Tracked	X
<i>Dendroica nigrescens</i>	Black-throated Gray Warbler			Not Tracked	Not Tracked	X
<i>Dendroica graciae</i>	Grace's Warbler			G5	S3B	X
<b>New World Sparrows</b>						
<i>Aimophila cassinii</i>	Cassin's Sparrow			Not Tracked	Not Tracked	X
<i>Spizella breweri</i>	Brewer's Sparrow			Not Tracked	Not Tracked	X
<i>Amphispiza belli</i>	Sage Sparrow			G5	S3B	X
<i>Calamospiza melanocorys</i>	Lark Bunting			Not Tracked	Not Tracked	X
<i>Poocetes gramineus</i>	Vesper Sparrow					1/
<i>Zonotrichia querula</i>	Harris' Sparrow					X
<i>Calcarius mccownii</i>	McCown's Longspur			G5	S2B	X
<i>Calcarius ornatus</i>	Chestnut-collared Longspur			G5	S1B	X
<b>Grosbeaks and Buntings</b>						

Table A7 - Birds - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<i>Passerina amoena</i>	Lazuli Bunting			Not Tracked	Not Tracked	X
<b>Blackbirds and Orioles</b>						
<i>Dolichonyx oryzivorus</i>	Bobolink			G5	S3B	X
<b>Finches</b>						
<i>Leucosticte atrata</i>	Black Rosy-Finch			Not Tracked	Not Tracked	X
<i>Leucosticte australis</i>	Brown-capped Rosy-Finch			G4	S3B, S4N	X
<i>Coccothraustes vespertinus</i>	Evening Grosbeak					<u>1/</u>
<i>Carpodacus cassinii</i>	Cassin's Finch			Not Tracked	Not Tracked	X
<i>Loxia curvirostra</i>	Red Crossbill					X
<u>1/</u> Added as a result of review by the scientists participating in the Questionnaire and Science Forum.						

Table A8 - Mammals - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<b>Shrews</b>						
<i>Sorex nanus</i>	Dwarf Shrew			G4	S2	
<i>Sorex preblei</i>	Preble's Shrew			G4	S1	
<b>Bats</b>						
<i>Euderma maculatum</i>	Spotted Bat			G4	S2	
<i>Idionycteris phyllotis</i>	Allen's big-eared bat	C		G3/G4 NMHP	S2	
<i>Myotis occultus</i>	Arizona myotis			G5/T3/T4	S3	X
<i>Myotis thysanodes</i>	Fringed myotis	C		G4/G5	S3	X
<i>Plecotus (Choynorhinus) townsendii pallescens</i>	Townsend's Big-eared Bat Subsp		SC	G4T4	S2	
<b>Rabbits and Hares</b>						
<i>Lepus townsendii</i>	White-tailed Jackrabbit			Not Tracked	Not Tracked	X
<b>Squirrels</b>						
<i>Cynomys gunnisoni</i>	Gunnison prairie dog					<u>1/</u>
<i>Cynomys leucurus</i>	White-tailed prairie dog					<u>1/</u>
<i>Cynomys ludovicianus</i>	Black-tailed prairie dog		SC	G3	Not Tracked	NatureServe G3
<b>Pocket Gophers</b>						
<i>Thomomys bottae rubidus</i>	Botta's Pocket Gopher (rubidus ssp)		SC	G5T1	S1	
<i>Thomomys talpoides macrotis</i>	Northern pocket gopher (macrotis ssp)		SC	G5T1	S1	
<i>Perognathus fasciatus</i>	Olive-backed pocket mouse					<u>1/</u>
<b>Jumping Mice</b>						
<i>Zapus hudsonius</i>	Meadow Jumping Mouse (both subspecies)	T	T	G5T2	S1	
<b>Dogs and Allies</b>						
<i>Canis lupus</i>	Gray Wolf - two subspecies (Northern and Mexican)	E	E	Not Tracked	Not Tracked	
<i>Vulpes macrotis</i>	Kit Fox		E	G4	S1	
<i>Vulpes velox</i>	Swift Fox		SC	G3	S3	

Table A8 - Mammals - Species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T/E/C	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<b>Bears</b>						
<i>Ursus arctos</i>	Grizzly bear	T	T3/T4X	G4	Not Tracked	
<b>Weasels and Allies</b>						
<i>Conepatus leuconotus</i>	Common Hog-nosed Skunk			G4	S1	
<i>Gulo gulo</i>	Wolverine		E	G4	S1	
<i>Lontra canadensis</i>	River Otter		T	Not Tracked	Not Tracked	
<i>Mustela nigripes</i>	Black-footed Ferret	E	E	G1	S1	
<b>Cattle and Allies</b>						
<i>Bison bison</i>	Bison			G1 or G2 (pending)		
<i>Ovis canadensis</i>	Bighorn sheet					<u>2/</u>
<b>Cats</b>						
<i>Lynx canadensis</i>	Lynx	T	E	G5	S1	
<sup>1/</sup> Added as a result of review by the scientists participating in the Questionnaire and Science Forum. <sup>2/</sup> Added by CDOW to ensure consideration in federal land management planning and decisions.						



Table A9 – Additional species recommended for addition to the list of species of greatest conservation concern during review of the draft plan (all recommended because they appear on other lists of species of concern, management indicator species, etc). They did not meet the inclusion criteria, and are not included in the 2005 CWCS.

Scientific Name	Common Name	Criteria for inclusion or exclusion.				
		Fed T or E	State T/E/SC	CNHP G1, G2 or G3	S1 or S2 AND G4	Rangewide assessment
<b>Insects</b>						
<i>Somatochlora hudsonica</i> <sup>1/</sup>	Hudsonian emerald					U.S. For. Svc. Region 2 Sensitive
<b>Reptiles</b>						
<i>Lampropeltis triangulum taylori</i> <sup>2/</sup>	milk snake					CO Bur. Land Mgt. Sensitive
<i>Sceloporus magister</i> <sup>2/</sup>	spiny lizard					CO Bur. Land Mgt. Sensitive
<b>Amphibians</b>						
<i>Spea intermontana</i> <sup>2/</sup>	Great Basin spadefoot					CO Bur. Land Mgt. Sensitive
<b>Fish</b>						
<i>Fundulus sciadicus</i> <sup>2/</sup>	Plains topminnow					CO Bur. Land Mgt. Sensitive
<i>Hybopsis gracilis</i> <sup>2/</sup>	Flathead chub					CO Bur. Land Mgt. Sensitive
<i>Nocomis biguttatus</i> <sup>1/</sup>	hornyhead chub					CO Bur. Land Mgt. Sensitive
<i>Notropis blennioides</i> <sup>2/</sup>	river shiner					CO Bur. Land Mgt. Sensitive
<b>Birds</b>						
<i>Ammodramus savannarum</i> <sup>1/</sup>	grasshopper sparrow					U.S. For. Svc. Region 2 Sensitive
<i>Chlidonias niger</i> <sup>1/ 2/</sup>	black tern					U.S. For. Svc. Region 2 Sensitive
<i>Cygnus buccinator</i> <sup>1/</sup>	trumpeter swan					U.S. For. Svc. Region 2 Sensitive
<i>Histrionicus histrionicus</i> <sup>1/</sup>	harlequin duck					U.S. For. Svc. Region 2 Sensitive
<b>Mammals</b>						
<i>Martes Americana</i> <sup>1/</sup>	American marten					U.S. For. Svc. Region 2 Sensitive
<i>Myotis yumanensis</i> <sup>2/</sup>	Yuma myotis					CO Bur. Land Mgt. Sensitive
<i>Nyctinomops macrotis</i> <sup>2/</sup>	free-tailed bat					CO Bur. Land Mgt. Sensitive
<i>Sorex hoyi</i> <sup>1/</sup>	pygmy shrew					U.S. For. Svc. Region 2 Sensitive

<sup>1/</sup> USDA Forest Service Region 2 – Sensitive

<sup>2/</sup> Colorado Bureau of Land Management - Sensitive

## Appendix B

### Relative Condition of Key Habitats in Colorado

Table B1 - Mollusks - Relative Condition of Key Habitats in Colorado (Science Forum Results).									
Habitat Category	Land Cover Type	Habitat Condition Status				Habitat Condition Trend			
		What is it now?				Is it changing?			
		Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
Urban and Croplands	Urban								
	Dryland Crops								
	Irrigated Crops								
Riparian / Wetlands	Open Water		X				X		
	Shrub-dominated Wetlands		X			X			
	Grass/Forb Dominated Wetlands				X	X			
	Eastern Plains Rivers	X				X			
	Eastern Plains Streams	X				X			
	Transition Streams	X				X			
	Mountain Streams		X				X		
	West Slope Rivers		X			X			
	West Slope Streams		X			X			
	Playas								
Grasslands	Tallgrass Prairie								
	Midgrass Prairie								
	Shortgrass Prairie								
	Foothill / Mountain Grassland								
	Sand Dune Complex (Grassland)								
Shrublands	Upland Shrub								
	Deciduous Oak								
	Sagebrush								
	Desert Shrub								
	Saltbrush Fans & Flats								
	Greasewood Fans & Flats								
	Sand Dune Complex (Shrubland)								
Forestlands	Aspen Forest								
	Spruce-Fir								
	Douglas Fir								

Table B1 - Mollusks - Relative Condition of Key Habitats in Colorado (Science Forum Results).

Habitat Category	Land Cover Type	Habitat Condition Status				Habitat Condition Trend			
		What is it now?				Is it changing?			
		Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
	Lodgepole Pine								
	Limber Pine								
	Ponderosa Pine								
	White Fir								
	Pinyon-Juniper								
	Rocky Mountain Bristlecone Pine								
	Mixed Conifer								
	Mixed Forest								
Tundra	Shrub Tundra								
	Meadow Tundra								
Unvegetated	Sandy Areas								
	Exposed Rock								
Lakes	Added at Science Forum		X				X		

Table B2 - Insects - Relative Condition of Key Habitats in Colorado (Science Forum Results).

Habitat Category	Land Cover Type	Habitat Condition Status				Habitat Condition Trend			
		What is it now?				Is it changing?			
		Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
Urban and Croplands	Urban				X			X	
	Dryland Crops				X				X
	Irrigated Crops				X				X
Riparian / Wetlands	Open Water		X				X		
	Shrub-dominated Wetlands		X			X			
	Grass/Forb Dominated Wetlands		X			X			
	Eastern Plains Rivers	X				X			
	Eastern Plains Streams	X				X			
	Transition Streams		X			X			
	Mountain Streams		X				X		
	West Slope Rivers		X			X			
	West Slope Streams		X			X			
	Playas				X	X			
Grasslands	Tallgrass Prairie	X				X			
	Midgrass Prairie				X				X
	Shortgrass Prairie		X			X			
	Foothill / Mountain Grassland		X			X			
	Sand Dune Complex (Grassland)				X				X
Shrublands	Upland Shrub				X				X
	Deciduous Oak		X				X		
	Sagebrush	X					X		
	Desert Shrub		X						X
	Saltbrush Fans & Flats		X				X		
	Greasewood Fans & Flats Sand Dune Complex (Shrubland)	X					X		
Forestlands	Aspen Forest		X						X
	Spruce-Fir				X		X		

Table B2 - Insects - Relative Condition of Key Habitats in Colorado (Science Forum Results).

Habitat Category	Land Cover Type	Habitat Condition Status				Habitat Condition Trend			
		What is it now?				Is it changing?			
		Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
	Douglas Fir		X				X		
	Lodgepole Pine				X				X
	Limber Pine				X				X
	Ponderosa Pine		X				X		
	White Fir				X				X
	Pinyon-Juniper	X				X			
	Rocky Mountain Bristlecone Pine				X				X
	Mixed Conifer				X		X		
	Mixed Forest				X				X
Tundra	Shrub Tundra				X				X
	Meadow Tundra				X				X
Unvegetated	Sandy Areas				X				X
	Exposed Rock				X				X

\* This group at the Science Forum ranked habitat types instead of just voting for them



Table B3 - Amphibians and Reptiles - Relative Condition of Key Habitats in Colorado (Science Forum Results).

Habitat Category	Land Cover Type	Vote	Habitat Condition Status				Habitat Condition Trend			
			What is it now?				Is it changing?			
			Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
Forestlands	Aspen Forest	*		X			X			
	Spruce-Fir	*				X				X
	Douglas Fir									
	Lodgepole Pine	*				X				X
	Limber Pine									
	Ponderosa Pine									
	White Fir									
	Pinyon-Juniper									
	Rocky Mountain Bristlecone Pine									
	Mixed Conifer	*				X				X
	Mixed Forest									
Tundra	Shrub Tundra									
	Meadow Tundra									
Unvegetated	Sandy Areas	*		X				X		
Exposed Rock										

\* This group at the Science Forum highlighted the most important land cover types and did not record actual votes.





Table B4 - Fish - Relative Condition of Key Habitats in Colorado (Science Forum Results).

The "vote" column represents the outcome of multi-voting by the experts at the Science Forum (in this case using the number of items on their list divided by three). Multi-voting is a way for groups to express their collective judgment about the habitats that are most important for the species of greatest conservation concern in this species group. Members of the species workgroup, after listing all the habitats of importance, were given multiple votes (number of species divided by three) and asked to allocate their votes as a personal assessment of importance. The sum of all votes was then used to capture the collective assessment of the group. After this voting was complete, an opportunity for discussion of the results was provided. The larger the number the larger the importance.

Habitat Category	Land Cover Type	Vote	Habitat Condition Status				Habitat Condition Trend			
			What is it now?				Is it changing?			
			Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
Forestlands	Aspen Forest									
	Spruce-Fir									
	Douglas Fir									
	Lodgepole Pine									
	Limber Pine									
	Ponderosa Pine									
	White Fir									
	Pinyon-Juniper									
	Rocky Mountain Bristlecone Pine									
	Mixed Conifer									
	Mixed Forest									
Tundra	Shrub Tundra									
	Meadow Tundra									
Unvegetated	Sandy Areas									
	Exposed Rock									
Lakes	Added at Science Forum			X				X		

Table B5 - Birds - Relative Condition of Key Habitats in Colorado (Science Forum Results).

The "vote" column represents the outcome of multi-voting by the experts at the Science Forum (in this case using the number of items on their list divided by three). Multi-voting is a way for groups to express their collective judgment about the habitats that are most important for the species of greatest conservation concern in this species group. Members of the species workgroup, after listing all the habitats of importance, were given multiple votes (number of species divided by three) and asked to allocate their votes as a personal assessment of importance. The sum of all votes was then used to capture the collective assessment of the group. After this voting was complete, an opportunity for discussion of the results was provided. The larger the number the larger the importance.

Habitat Category	Land Cover Type	Vote	Habitat Condition Status				Habitat Condition Trend			
			What is it now?				Is it changing?			
			Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
Urban and Croplands	Urban			X				X		
	Dryland Crops			X			X			
	Irrigated Crops			X			X			
Riparian / Wetlands	Open Water			X			X			
	Shrub-dominated Wetlands	2			X	X				
	Grass/Forb Dominated Wetlands	5		X		X				
	Eastern Plains Rivers	6	X			X				
	Eastern Plains Streams	4	X			X				
	Transition Streams	1	X			X				
	Mountain Streams			X			X			
	West Slope Rivers	5	X			X				
	West Slope Streams	4	X			X				
	Playas	6	X			X				
Grasslands	Tallgrass Prairie		X			X				
	Midgrass Prairie	5	X			X				
	Shortgrass Prairie	6		X		X				
	Foothill / Mountain Grassland	3		X		X				
	Sand Dune Complex (Grassland)			X					X	
Shrublands	Upland Shrub			X		X				
	Deciduous Oak			X			X			
	Sagebrush	6	X			X				
	Desert Shrub			X		X				
	Saltbrush Fans & Flats			X		X				
	Greasewood Fans & Flats			X		X				
Sand Dune Complex (Shrubland)					X			X		

Table B5 - Birds - Relative Condition of Key Habitats in Colorado (Science Forum Results).

The "vote" column represents the outcome of multi-voting by the experts at the Science Forum (in this case using the number of items on their list divided by three). Multi-voting is a way for groups to express their collective judgment about the habitats that are most important for the species of greatest conservation concern in this species group. Members of the species workgroup, after listing all the habitats of importance, were given multiple votes (number of species divided by three) and asked to allocate their votes as a personal assessment of importance. The sum of all votes was then used to capture the collective assessment of the group. After this voting was complete, an opportunity for discussion of the results was provided. The larger the number the larger the importance.

Habitat Category	Land Cover Type	Vote	Habitat Condition Status				Habitat Condition Trend			
			What is it now?				Is it changing?			
			Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
Forestlands	Aspen Forest	5		X			X			
	Spruce-Fir			X				X		
	Douglas Fir	4		X			X			
	Lodgepole Pine				X			X		
	Limber Pine			X				X		
	Ponderosa Pine	5	X				X			
	White Fir			X					X	
	Pinyon-Juniper	6	X				X			
	Rocky Mountain Bristlecone Pine			X				X		
	Mixed Conifer	2		X				X		
	Mixed Forest					X				X
Tundra	Shrub Tundra			X				X		
	Meadow Tundra			X				X		
Unvegetated	Sandy Areas					X				X
	Exposed Rock				X			X		

Table B6 - Mammals - Relative Condition of Key Habitats in Colorado (Science Forum Results).

The "vote" column represents the outcome of multi-voting by the experts at the Science Forum (in this case using the number of items on their list divided by three). Multi-voting is a way for groups to express their collective judgment about the habitats that are most important for the species of greatest conservation concern in this species group. Members of the species workgroup, after listing all the habitats of importance, were given multiple votes (number of species divided by three) and asked to allocate their votes as a personal assessment of importance. The sum of all votes was then used to capture the collective assessment of the group. After this voting was complete, an opportunity for discussion of the results was provided. The larger the number the larger the importance.

Habitat Category	Land Cover Type	Vote	Habitat Condition Status				Habitat Condition Trend			
			What is it now?				Is it changing?			
			Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
Urban and Croplands	Urban		X					X		
	Dryland Crops				X		X			
	Irrigated Crops				X	X				
Riparian / Wetlands	Open Water			X				X		
	Shrub-dominated Wetlands	2		X			X			
	Grass/Forb Dominated Wetlands			X			X			
	Eastern Plains Rivers		X				X			
	Eastern Plains Streams	1	X				X			
	Transition Streams	1		X				X		
	Mountain Streams	3		X				X		
	West Slope Rivers	2		X			X			
	West Slope Streams	2		X				X		
	Playas					X	X			
Grasslands	Tallgrass Prairie			X			X			
	Midgrass Prairie	3		X			X			
	Shortgrass Prairie	6		X			X			
	Foothill / Mountain Grassland	3		X			X			
	Sand Dune Complex (Grassland)		X				X			
Shrublands	Upland Shrub	1		X			X			
	Deciduous Oak	1		X			X			
	Sagebrush	3		X			X			
	Desert Shrub	1		X				X		
	Saltbrush Fans & Flats			X				X		
	Greasewood Fans & Flats			X				X		
	Sand Dune Complex (Shrubland)	2		X			X			

Table B6 - Mammals - Relative Condition of Key Habitats in Colorado (Science Forum Results).

The "vote" column represents the outcome of multi-voting by the experts at the Science Forum (in this case using the number of items on their list divided by three). Multi-voting is a way for groups to express their collective judgment about the habitats that are most important for the species of greatest conservation concern in this species group. Members of the species workgroup, after listing all the habitats of importance, were given multiple votes (number of species divided by three) and asked to allocate their votes as a personal assessment of importance. The sum of all votes was then used to capture the collective assessment of the group. After this voting was complete, an opportunity for discussion of the results was provided. The larger the number the larger the importance.

Habitat Category	Land Cover Type	Vote	Habitat Condition Status				Habitat Condition Trend			
			What is it now?				Is it changing?			
			Poor	Good	Excellent	Unknown	Declining	Stable	Increasing	Unknown
Forestlands	Aspen Forest	1		X				X		
	Spruce-Fir	1		X			X			
	Douglas Fir	1		X				X		
	Lodgepole Pine			X				X		
	Limber Pine				X			X		
	Ponderosa Pine	3	X				X			
	White Fir			X				X		
	Pinyon-Juniper	5		X				X		
	Rocky Mountain Bristlecone Pine			X				X		
	Mixed Conifer	3		X				X		
	Mixed Forest					X				X
Tundra	Shrub Tundra			X				X		
	Meadow Tundra			X					X	
Unvegetated	Sandy Areas				X			X		
	Exposed Rock			X				X		

## **Appendix C**

### **Species Land Cover Type Associations**

In the opinion of the experts in the technical questionnaire and Science Forum, the list of land cover types used here was helpful but not universally applicable. For example, for fish the participants at the Science Forum felt a more detailed stratification delineating different kinds of “open water” habitats would be helpful, specifically adding lakes as a land cover type, and there were some verbal expressions of interest in more detailed stratifications of grass lands. Consequently there is a need to maintain flexibility for re-stratifying habitat in the future to meet the unique needs of the species under consideration.

The tables that follow are a synthesis of expert opinions about the land cover types where species of conservation need are found.













Table C2, Part B -Insects - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Grasslands					Shrublands						
		Tallgrass Prairie	Midgrass Prairie	Shortgrass Prairie	Foothill / Mountain Grassland	Sand Dune Complex (Grassland)	Upland Shrub	Deciduous Oak	Sagebrush	Desert Shrub	Saltbrush Fans & Flats	Greasewood Fans and Flats	Sand Dune Complex (Shrubland)
<b>Stoneflies (Plecoptera)</b>													
<i>Capnia arapahoe</i>	Arapahoe snowfly												
<i>Capnia nelsoni</i>	Nelson's snowfly												
<i>Mesocapnia frisoni</i>	Plains snowfly												
<b>Mayflies (Ephemeroptera)</b>													
<i>Ametropus albrighti</i>	Mayfly, spp.												
<b>Dragonflies and Damselflies (Odonata)</b>													
<i>Argia alberta</i>	Paiute Dancer												
<i>Gomphus intricatus</i>	Brimstone Clubtail												
<i>Libellula nodisticta</i>	Hoary Skimmer												
<i>Somatochlora ensigera</i>	Lemon-faced Emerald												
<i>Sympetrum madidum</i>	Red-veined Meadowfly												
<i>Tetragoneuria petechialis</i>	Stripe-winged Baskettail												
<b>Beetles (Coleoptera)</b>													
<i>Amblyderus weneri</i>	Great Sand Dunes Anthicid Beetle												
<i>Cicindela theatina</i>	San Luis Dunes Tiger Beetle												
<b>Butterflies and Moths (Lepidoptera)</b>													
<i>Atrytone arogos</i>	Arogos Skipper												
<i>Euphyes bimacula</i>	Two-spotted Skipper												
<i>Hesperia leonardus montana</i>	Pawnee Montane Skipper												
<i>Hesperia ottoe</i>	Otoe Skipper	X	X										
<i>Polites rhesus</i>	Rhesus Skipper			X	X								
<i>Pyrgus xanthus</i>	Xanthus Skipper												
<i>Erynnis martialis</i>	Mottled Duskywing						X						
<b>Gossamer-winged Butterflies</b>													
<i>Callophrys comstocki</i>	Comstock's Hairstreak		X							X			
<i>Callophrys mcfarlandi</i>	Sandia Hairstreak			X									
<i>Callophrys mossii schryveri</i>	Moss's Elfin						X						













Table C4, Part B - Reptiles - Habitat associations of species of greatest conservation concern (Science Forum Results).

		Grasslands					Shrublands						
Scientific Name	Common Name	Tallgrass Prairie	Midgrass Prairie	Shortgrass Prairie	Foothill / Mountain Grassland	Sand Dune Complex (Grassland)	Upland Shrub	Deciduous Oak	Sagebrush	Desert Shrub	Saltbrush Fans & Flats	Greasewood Fans and Flats	Sand Dune Complex (Shrubland)
<b>Turtles</b>													
<i>Kinosternon flavescens</i>	Yellow mud turtle												
<b>Lizards</b>													
<i>Gambelia wislizenii</i>	Longnose leopard lizard								X	X	X	X	
<i>Phrynosoma cornutum</i>	Texas horned lizard		X	X									
<i>Phrynosoma modestum</i>	Roundtail horned lizard			X									
<i>Cnemidophorus neotesselatus</i>	Triploid checkered whiptail			X					X			X	
<b>Snakes</b>													
<i>Leptotyphlops dulcis</i>	Texas blind snake			X									
<i>Hypsiglena torquata</i>	Night snake			X				X	X			X	
<i>Lampropeltis getula</i>	Common kingsnake		X	X					X				
<i>Rhinocheilus lecontei</i>	Long-nosed snake			X				X					
<i>Tantilla horbartsmlthi</i>	Southwestern black-headed snake							X	X	X	X	X	
<i>Thamnophis cyrtopsis</i>	Blacknecked garter snake												
<i>Thamnophis sirtalis</i>	Common garter snake												
<i>Crotalus viridis concolor</i>	Midget faded rattlesnake							X	X	X	X	X	
<i>Sistrurus catenatus</i>	Massasauga		X	X				X					



Table C5, Part A - Amphibians - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Urban and Croplands			Riparian/Wetlands									
		Urban	Dryland Crops	Irrigated Crops	Open Water	Shrub-dominated Wetlands	Grass/Forb Dominated Wetlands	Eastern Plains Rivers	Eastern Plains Streams	Transition Streams	Mountain Streams	West Slope Rivers	West Slope Streams	Playas
<b>Toads</b>														
<i>Scaphiopus couchii</i>	Couch's Spadefoot						X							
<i>Bufo boreas pop. 1</i>	Boreal Toad (Southern Rocky Mountain Population)				X	X	X				X			
<i>Bufo debilis</i> 1/	Green toad								X					
<b>Frogs</b>														
<i>Acris crepitans</i>	Northern cricket frog						X	X	X					
<i>Hyla arenicolor</i> 1/	Canyon tree frog								X			X	X	
<i>Gastrophryne olivacea</i>	Great Plains Narrowmouth Toad				X		X		X					
<i>Rana blairi</i>	Plains Leopard Frog				X	X	X	X	X					
<i>Rana pipiens</i>	Northern Leopard Frog				X	X	X	X	X	X	X	X	X	
<i>Rana sylvatica</i>	Wood Frog				X	X	X				X			

1/ These species added at the Science Forum using common names. The scientific names were added via an Internet search, therefore, species verification may be necessary; see: <http://www.enature.com/fieldguide>; accessed 6/14/05/.

Table C5, Part B - Amphibians - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Grasslands					Shrublands						
		Tallgrass Prairie	Midgrass Prairie	Shortgrass Prairie	Foothill / Mountain Grassland	Sand Dune Complex (Grassland)	Upland Shrub	Deciduous Oak	Sagebrush	Desert Shrub	Saltbrush Fans & Flats	Greasewood Fans and Flats	Sand Dune Complex (Shrubland)
<b>Toads</b>													
<i>Scaphiopus couchii</i>	Couch's Spadefoot			X									
<i>Bufo boreas pop. 1</i>	Boreal Toad (Southern Rocky Mountain Population)												
<i>Bufo debilis</i> 1/	Green toad												
<b>Frogs</b>													
<i>Acris crepitans</i>	Northern cricket frog												
<i>Hyla arenicolor</i> 1/	Canyon tree frog												
<i>Gastrophryne olivacea</i>	Great Plains Narrowmouth Toad												
<i>Rana blairi</i>	Plains Leopard Frog												
<i>Rana pipiens</i>	Northern Leopard Frog												
<i>Rana sylvatica</i>	Wood Frog												

1/ These species added at the Science Forum using common names. The scientific names were added via an Internet search, therefore, species verification may be necessary; see: <http://www.enature.com/fieldguide>; accessed 6/14/05/.

Table C5, Part C - Amphibians - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Forestlands											Tundra		Unvegetated	
		Aspen Forest	Spruce-Fir	Douglas Fir	Lodgepole Pine	Limber Pine	Ponderosa Pine	White Fir	Pinyon-Juniper	Rocky Mountain Bristlecone Pine	Mixed Conifer	Mixed Forest	Shrub Tundra	Meadow Tundra	Sandy Areas	Exposed Rock
<b>Toads</b>																
<i>Acris crepitans</i>	Northern cricket frog															
<i>Bufo boreas</i> pop. 1	Boreal Toad (Southern Rocky Mountain Population)	X	X		X						X					
<i>Bufo debilis</i> 1/	Green toad															
<i>Gastrophryne olivacea</i>	Great Plains Narrowmouth Toad															
<b>Frogs</b>																
<i>Hyla arenicolor</i> 1/	Canyon tree frog															
<i>Rana blairi</i>	Plains Leopard Frog															
<i>Rana pipiens</i>	Northern Leopard Frog										X					
<i>Rana sylvatica</i>	Wood Frog	X	X		X						X					
<i>Scaphiopus couchii</i>	Couch's Spadefoot															

1/ These species added at the Science Forum using common names. The scientific names were added via an Internet search, therefore, species verification may be necessary; see: <http://www.enature.com/fieldguide>; accessed 6/14/05/.

Table C6, Part A - Fish - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Urban and Croplands			Riparian/Wetlands									
		Urban	Dryland Crops	Irrigated Crops	Open Water	Shrub-dominated Wetlands	Grass/Forb Dominated Wetlands	Eastern Plains Rivers	Eastern Plains Streams	Transition Streams	Mountain Streams	West Slope Rivers	West Slope Streams	Playas
<b>Sunfishes</b>														
<i>Lepomis humilis</i>	Orangespotted sunfish				X *			X	X	X				
<b>Catfishes</b>														
<i>Noturus flavus</i>	Stonecat				X			X	X	X				
<i>Etheostoma cragini</i>	Arkansas Darter				X			X	X	X				
<i>Etheostoma exile</i>	Iowa darter				X			X	X	X				
<i>Etheostoma spectabile</i>	Plains orangethroat darter				X			X	X	X				
<b>Suckers</b>														
<i>Catostomus discobolus</i>	Bluehead sucker											X	X	
<i>Catostomus latipinnis</i>	Flannelmouth sucker				X *							X	X	
<i>Catostomus playtrhynchus</i>	Mountain sucker				X						X		X	
<i>Catostomus plebeius</i>	Rio Grande Sucker				X						X			
<i>Xyrauchen texanus</i>	Razorback Sucker				X							X		
<b>Minnows</b>														
<i>Gila elegans</i>	Bonytail											X		
<i>Ptychocheilus lucius</i>	Colorado Pikeminnow				X							X		
<i>Hybognathus hankinsoni</i>	Brassy minnow				X			X	X	X				
<i>Luxilus cornutus</i>	Common shiner				X					X				
<i>Platygobio gracilus</i>	Flathead chub				X			X	X	X				
<i>Gila cypha</i>	Humpback Chub				X							X		
<i>Couesius plumbeus</i>	Lake Chub				X *									
<i>Hybognathus placitus</i>	Plains minnow				X			X	X					
<i>Phoxinus eos</i>	Northern Redbelly Dace				X *					X				
<i>Gila pandora</i>	Rio Grande Chub				X *					X	X			
<i>Gila robusta</i>	Roundtail Chub				X							X	X	













Table C7, Part A - Birds - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Urban and Croplands			Riparian/Wetlands									
		Urban	Dryland Crops	Irrigated Crops	Open Water	Shrub-dominated Wetlands	Grass/Forb Dominated Wetlands	Eastern Plains Rivers	Eastern Plains Streams	Transition Streams	Mountain Streams	West Slope Rivers	West Slope Streams	Playas
<b>Grebes</b>														
<i>Podiceps nigricollis</i>	Eared Grebe				X		X							X
<i>Aechmophorus occidentalis</i>	Western Grebe													
<b>Pelicans</b>														
<i>Pelecanus erythrorhynchos</i>	American White Pelican				X			X				X		X
<b>Herons</b>														
<i>Botaurus lentiginosus</i>	American Bittern						X							
<i>Egretta thula</i>	Snowy Egret				X	X	X	X	X	X		X	X	X
<i>Plegadis chihi</i>	White-faced Ibis			X	X	X	X	X				X		X
<b>Swans, geese, and Ducks</b>														
<i>Anas acuta</i>	Northern Pintail				X		X	X	X			X	X	X
<i>Aythya affinis</i>	Lesser Scaup				X	X	X	X				X		X
<i>Bucephala islandica</i>	Barrow's Goldeneye				X		X				X	X	X	
<b>Kites, Eagles, and Hawks</b>														
<i>Pandion haliaetus</i>	Osprey				X			X			X	X		
<i>Haliaeetus leucocephalus</i>	Bald Eagle		X	X	X	X	X	X	X	X	X	X	X	X
<i>Circus cyaneus</i>	Northern Harrier		X	X			X	X	X	X		X	X	X
<i>Accipiter gentilis</i>	Northern Goshawk													
<i>Buteo swainsoni</i>	Swainson's Hawk	X	X	X				X	X			X	X	X
<i>Buteo regalis</i>	Ferruginous Hawk		X	X										
<i>Aquila chrysaetos</i>	Golden Eagle		X	X	X	X	X	X	X	X	X	X	X	X
<b>Falcons</b>														
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	X			X	X	X	X	X	X	X	X	X	X
<i>Falco mexicanus</i>	Prairie Falcon		X	X	X	X	X	X	X	X	X	X	X	X
<b>Partridges, Grouse, Turkeys, and Quail</b>														
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse		X	X		X	X						X	
<i>Centrocercus minimus</i>	Gunnison Sage Grouse			X		X	X						X	



Table C7, Part A - Birds - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Urban and Croplands						Riparian/Wetlands						
		Urban	Dryland Crops	Irrigated Crops	Open Water	Shrub-dominated Wetlands	Grass/Forb Dominated Wetlands	Eastern Plains Rivers	Eastern Plains Streams	Transition Streams	Mountain Streams	West Slope Rivers	West Slope Streams	Playas
<b>Owls</b>														
<i>Athene cunicularia hypugaea</i>	Western Burrowing Owl	X	X	X										X
<i>Otus flammeolus</i>	Flammulated Owl													
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl						X	X						
<i>Asio flammeus</i>	Short-eared Owl					X								
<i>Aegolius funereus</i>	Boreal Owl													
<b>Swifts</b>														
<i>Cypseloides niger</i>	Black Swift								X	X	X			
<i>Aeronautes saxatalis</i>	White-throated Swift													
<b>Hummingbirds</b>														
<i>Archilochus alexandri</i>	Black-chinned Hummingbird	X			X	X					X	X		
<i>Selasphorus platycercus</i>	Broad-tailed Hummingbird	X							X					
<i>Selasphorus rufus</i>	Rufous Hummingbird	X												
<b>Woodpeckers</b>														
<i>Melanerpes lewis</i>	Lewis's Woodpecker	X		X			X	X	X		X	X		
<i>Sphyrapicus thyroideus</i>	Williamson's Sapsucker													
<i>Sphyrapicus nuchalis</i>	Red-naped Sapsucker				X				X	X		X		
<i>Picoides dorsalis</i>	American Three-toed Woodpecker													
<b>Flycatchers</b>														
<i>Contopus cooperi</i>	Olive-sided Flycatcher													
<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher				X						X	X		
<i>Empidonax wrightii</i>	Gray Flycatcher													
<i>Empidonax oberholseri</i>	Dusky Flycatcher				X									
<i>Empidonax</i>	Cordilleran							X	X	X	X			









Table C7, Part B - Birds - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Grasslands					Shrublands						
		Tallgrass Prairie	Midgrass Prairie	Shortgrass Prairie	Foothill / Mountain Grassland	Sand Dune Complex (Grassland)	Upland Shrub	Deciduous Oak	Sagebrush	Desert Shrub	Saltbrush Fans & Flats	Greasewood Fans and Flats	Sand Dune Complex (Shrubland)
<i>Tympanuchus cupido</i>	Greater Prairie Chicken	X	X	X		X							
<i>Dendragapus obscurus</i>	Blue Grouse				X		X	X					
<i>Tympanuchus phasianellus columbianus</i>	Columbian Sharp-tailed Grouse				X		X	X	X				
<i>Tympanuchus phasianellus jamesii</i>	Plains Sharp-tailed Grouse	X	X	X	X	X		X					
<i>Tympanuchus pallidicinctus</i>	Lesser Prairie-chicken	X	X	X		X							
<i>Callipepla squamata</i>	Scaled Quail		X	X		X			X	X		X	X
<b>Rails, Gallinules, and Coots</b>													
<i>Laterallus jamaicensis</i>	Black Rail												
<b>Cranes</b>													
<i>Grus canadensis tabida</i>	Greater Sandhill Crane				X								
<i>Grus americana</i>	Whooping Crane												
<b>Plovers</b>													
<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover												
<i>Charadrius melodus</i>	Piping Plover												
<i>Charadrius montanus</i>	Mountain Plover		X	X	X					X	X		
<b>Sandpipers and Phalaropes</b>													
<i>Bartramia longicauda</i>	Upland Sandpiper	X	X			X							
<i>Numenius americanus</i>	Long-billed Curlew		X	X		X							
<i>Limosa fedoa</i>	Marbled Godwit												
<i>Phalaropus tricolor</i>	Wilson's Phalarope												
<b>Jaegers, Gulls, and Terns</b>													
<i>Sterna forsteri</i>	Forster's Tern												
<i>Sterna antillarum</i>	Least Tern												
<b>Pigeons and Doves</b>													
<i>Patagioenas fasciata</i>	Band-tailed Pigeon						X	X					
<b>Cuckoos, Roadrunners, and Anis</b>													
<i>Coccyzus americanus</i>	Western Yellow-billed Cuckoo												
<b>Owls</b>													

Table C7, Part B - Birds - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Grasslands					Shrublands						
		Tallgrass Prairie	Midgrass Prairie	Shortgrass Prairie	Foothill / Mountain Grassland	Sand Dune Complex (Grassland)	Upland Shrub	Deciduous Oak	Sagebrush	Desert Shrub	Saltbrush Fans & Flats	Greasewood Fans and Flats	Sand Dune Complex (Shrubland)
<i>Athene cunicularia hypugaea</i>	Western Burrowing Owl	X	X	X					X	X	X		
<i>Otus flammeolus</i>	Flammulated Owl												
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl												
<i>Asio flammeus</i>	Short-eared Owl		X	X	X	X	X		X				
<i>Aegolius funereus</i>	Boreal Owl												
<b>Swifts</b>													
<i>Cypseloides niger</i>	Black Swift												
<i>Aeronautes saxatalis</i>	White-throated Swift												
<b>Hummingbird</b>													
<i>Archilochus alexandri</i>	Black-chinned Hummingbird												
<i>Selasphorus platycercus</i>	Broad-tailed Hummingbird				X		X	X	X				
<i>Selasphorus rufus</i>	Rufous Hummingbird				X		X	X					
<b>Woodpeckers</b>													
<i>Melanerpes lewis</i>	Lewis's Woodpecker												
<i>Sphyrapicus thyroideus</i>	Williamson's Sapsucker												
<i>Sphyrapicus nuchalis</i>	Red-naped Sapsucker												
<i>Picoides dorsalis</i>	American Three-toed Woodpecker												
<b>Flycatchers</b>													
<i>Contopus cooperi</i>	Olive-sided Flycatcher												
<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher												
<i>Empidonax wrightii</i>	Gray Flycatcher								X				
<i>Empidonax oberholseri</i>	Dusky Flycatcher						X	X					
<i>Empidonax occidentalis</i>	Cordilleran Flycatcher												
<b>Shrikes</b>													
<i>Lanius ludovicianus</i>	Loggerhead Shrike	X	X	X	X	X			X	X	X	X	
<b>Vireos</b>													
<i>Vireo vicinior</i>	Gray Vireo												
<b>Jays, Magpies, and Crows</b>													





Table C7, Part C - Birds - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Forestlands											Tundra		Unvegetated	
		Aspen Forest	Spruce-Fir	Douglas Fir	Lodgepole Pine	Limber Pine	Ponderosa Pine	White Fir	Pinyon-Juniper	Rocky Mountain Bristlecone Pine	Mixed Conifer	Mixed Forest	Shrub Tundra	Meadow Tundra	Sandy Areas	Exposed Rock
<b>Grebes</b>																
<i>Podiceps nigricollis</i>	Eared Grebe															
<i>Aechmophorus occidentalis</i>	Western Grebe															
<b>Pelicans</b>																
<i>Pelecanus erythrorhynchos</i>	American White Pelican														X	
<b>Herons</b>																
<i>Botaurus lentiginosus</i>	American Bittern															
<i>Egretta thula</i>	Snowy Egret															
<i>Plegadis chihi</i>	White-faced Ibis															
<b>Swans, Geese, and Ducks</b>																
<i>Anas acuta</i>	Northern Pintail															
<i>Aythya affinis</i>	Lesser Scaup															
<i>Bucephala islandica</i>	Barrow's Goldeneye															
<b>Kites, Eagles, and Hawks</b>																
<i>Pandion haliaetus</i>	Osprey															
<i>Haliaeetus leucocephalus</i>	Bald Eagle															
<i>Circus cyaneus</i>	Northern Harrier															
<i>Accipiter gentilis</i>	Northern Goshawk	X		X	X		X		X		X	X				
<i>Buteo swainsoni</i>	Swainson's Hawk															
<i>Buteo regalis</i>	Ferruginous Hawk								X							X
<i>Aquila chrysaetos</i>	Golden Eagle	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>Falcons</b>																
<i>Falco peregrinus anatum</i>	American Peregrine Falcon						X		X							X
<i>Falco mexicanus</i>	Prairie Falcon								X				X	X	X	X
<b>Partridges, Grouse, Turkeys, and Quail</b>																
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse															
<i>Centrocercus minimus</i>	Gunnison Sage Grouse															
<i>Lagopus leucurus</i>	White-tailed											X	X			

Table C7, Part C - Birds - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Forestlands											Tundra		Unvegetated	
		Aspen Forest	Spruce-Fir	Douglas Fir	Lodgepole Pine	Limber Pine	Ponderosa Pine	White Fir	Pinyon-Juniper	Rocky Mountain Bristlecone Pine	Mixed Conifer	Mixed Forest	Shrub Tundra	Meadow Tundra	Sandy Areas	Exposed Rock
	Ptarmigan															
<i>Tympanuchus cupido</i>	Greater Prairie Chicken															
<i>Dendragapus obscurus</i>	Blue Grouse	X	X	X	X	X	X	X		X	X	X				
<i>Tympanuchus phasianellus columbianus</i>	Columbian Sharp-tailed Grouse															
<i>Tympanuchus phasianellus jamesii</i>	Plains Sharp-tailed Grouse															
<i>Tympanuchus pallidicinctus</i>	Lesser Prairie-chicken															
<i>Callipepla squamata</i>	Scaled Quail								X							
<b>Rails, Gallinules, and Coots</b>																
<i>Laterallus jamaicensis</i>	Black Rail															
<b>Cranes</b>																
<i>Grus canadensis tabida</i>	Greater Sandhill Crane															
<i>Grus americana</i>	Whooping Crane															
<b>Plovers</b>																
<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover														X	
<i>Charadrius melodus</i>	Piping Plover														X	
<i>Charadrius montanus</i>	Mountain Plover															
<b>Sandpipers and Phalaropes</b>																
<i>Bartramia longicauda</i>	Upland Sandpiper															
<i>Numenius americanus</i>	Long-billed Curlew															
<i>Limosa fedoa</i>	Marbled Godwit															
<i>Phalaropus tricolor</i>	Wilson's Phalarope															
<b>Jaegers, Gulls, and Terns</b>																
<i>Sterna forsteri</i>	Forster's Tern															
<i>Sterna antillarum</i>	Least Tern														X	
<b>Pigeons and Doves</b>																
<i>Patagioenas fasciata</i>	Band-tailed Pigeon	X	X	X	X	X	X	X	X		X	X				
<b>Cuckoos, Roadrunners, and Anis</b>																



Table C7, Part C - Birds - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Forestlands											Tundra		Unvegetated		
		Aspen Forest	Spruce-Fir	Douglas Fir	Lodgepole Pine	Limber Pine	Ponderosa Pine	White Fir	Pinyon-Juniper	Rocky Mountain Bristlecone Pine	Mixed Conifer	Mixed Forest	Shrub Tundra	Meadow Tundra	Sandy Areas	Exposed Rock	
<i>Coccyzus americanus</i>	Western Yellow-billed Cuckoo																
<b>Owls</b>																	
<i>Athene cucularia hypugaea</i>	Western Burrowing Owl																
<i>Otus flammeolus</i>	Flammulated Owl	X	X	X		X	X	X			X	X					
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl			X			X		X		X						X
<i>Asio flammeus</i>	Short-eared Owl																
<i>Aegolius funereus</i>	Boreal Owl		X		X					X							
<i>Cypseloides niger</i>	Black Swift																X
<i>Aeronautes saxatalis</i>	White-throated Swift																X
<b>Hummingbirds</b>																	
<i>Archilochus alexandri</i>	Black-chinned Hummingbird								X								
<i>Selasphorus platycercus</i>	Broad-tailed Hummingbird	X	X	X	X	X	X	X	X	X	X	X					
<i>Selasphorus rufus</i>	Rufous Hummingbird												X	X			
<b>Woodpeckers</b>																	
<i>Melanerpes lewis</i>	Lewis's Woodpecker						X		X								
<i>Sphyrapicus thyroideus</i>	Williamson's Sapsucker	X	X	X	X	X	X	X			X	X					
<i>Sphyrapicus nuchalis</i>	Red-naped Sapsucker	X	X	X	X	X	X	X		X	X	X					
<i>Picoides dorsalis</i>	American Three-toed Woodpecker	X	X	X	X	X	X	X		X	X						
<b>Flycatchers</b>																	
<i>Contopus cooperi</i>	Olive-sided Flycatcher	X	X	X	X	X	X	X	X	X	X	X					
<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher																
<i>Empidonax wrightii</i>	Gray Flycatcher								X								
<i>Empidonax oberholseri</i>	Dusky Flycatcher	X	X	X	X	X	X	X	X	X	X	X	X				
<i>Empidonax occidentalis</i>	Cordilleran Flycatcher	X	X	X	X	X	X	X		X	X	X					X
<b>Shrikes</b>																	
<i>Lanius ludovicianus</i>	Loggerhead Shrike																
<b>Vireos</b>																	

Table C7, Part C - Birds - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Forestlands											Tundra		Unvegetated	
		Aspen Forest	Spruce-Fir	Douglas Fir	Lodgepole Pine	Limber Pine	Ponderosa Pine	White Fir	Pinyon-Juniper	Rocky Mountain Bristlecone Pine	Mixed Conifer	Mixed Forest	Shrub Tundra	Meadow Tundra	Sandy Areas	Exposed Rock
<i>Vireo vicinior</i>	Gray Vireo								X							
<b>Jays, Magpies, and Crows</b>																
<i>Gymnorhinus cyanocephalus</i>	Pinyon Jay					X	X		X							
<b>Swallows</b>																
<i>Progne subis hesperia</i>	Western Purple Martin	X														
<b>Chickadees and Titmice</b>																
<i>Baeolophus ridgwayi</i>	Juniper Titmouse								X							
<b>Nuthatches</b>																
<i>Sitta pygmaea</i>	Pygmy Nuthatch						X									
<b>Dippers</b>																
<i>Cinclus mexicanus</i>	American Dipper															
<b>Kinglets, Gnatcatchers, and Thrushes</b>																
<i>Catharus fuscescens</i>	Veery															
<i>Toxostoma curvirostre</i>	Curve-billed Thrasher															
<b>Wood-Warblers</b>																
<i>Vermivora virginiae</i>	Virginia's Warbler	X				X	X		X			X				
<i>Dendroica nigrescens</i>	Black-throated Gray Warbler								X							
<i>Dendroica graciae</i>	Grace's Warbler						X									
<b>New World Sparrows</b>																
<i>Aimophila cassinii</i>	Cassin's Sparrow															
<i>Spizella breweri</i>	Brewer's Sparrow															
<i>Amphispiza belli</i>	Sage Sparrow															
<i>Calamospiza melanocorys</i>	Lark Bunting															
<i>Poocetes gramineus</i>	Vesper Sparrow															
<i>Zonotrichia querula</i>	Harris' Sparrow															
<i>Calcarius mccownii</i>	McCown's Longspur															
<i>Calcarius ornatus</i>	Chestnut-collared Longspur															
<b>Grosbeaks and Buntings</b>																

Table C7, Part C - Birds - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Forestlands											Tundra		Unvegetated	
		Aspen Forest	Spruce-Fir	Douglas Fir	Lodgepole Pine	Limber Pine	Ponderosa Pine	White Fir	Pinyon-Juniper	Rocky Mountain Bristlecone Pine	Mixed Conifer	Mixed Forest	Shrub Tundra	Meadow Tundra	Sandy Areas	Exposed Rock
<i>Passerina amoena</i>	Lazuli Bunting	X														
<b>Blackbirds and Orioles</b>																
<i>Dolichonyx oryzivorus</i>	Bobolink															
<b>Finches</b>																
<i>Leucosticte atrata</i>	Black Rosy-Finch												X	X		X
<i>Leucosticte australis</i>	Brown-capped Rosy-Finch												X	X		X
<i>Coccothraustes vespertinus</i>	Evening Grosbeak	X	X	X	X	X	X	X		X	X	X				
<i>Carpodacus cassinii</i>	Cassin's Finch	X	X	X	X	X	X	X	X	X	X	X				
<i>Loxia curvirostra</i>	Red Crossbill		X	X	X	X	X	X			X					





Table C8, Part B - Mammals - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Grasslands					Shrublands						
		Tallgrass Prairie	Midgrass Prairie	Shortgrass Prairie	Foothill / Mountain Grassland	Sand Dune Complex (Grassland)	Upland Shrub	Deciduous Oak	Sagebrush	Desert Shrub	Saltbrush Fans & Flats	Greasewood Fans and Flats	Sand Dune Complex (Shrubland)
<b>Shrews</b>													
<i>Sorex nanus</i>	Dwarf Shrew												
<i>Sorex preblei</i>	Preble's Shrew				X			X	X				
<b>Bats</b>													
<i>Euderma maculatum</i>	Spotted Bat						X			X			
<i>Idionycteris phyllotis</i>	Allen's big-eared bat							X	X				
<i>Myotis occultus</i>	Arizona myotis				X		X	X	X				
<i>Myotis thysanodes</i>	Fringed myotis				X		X	X	X				
<i>Plecotus (Choynorhinus) townsendii pallescens</i>	Townsend's Big-eared Bat Subsp				X		X	X	X				
<b>Rabbits and Hares</b>													
<i>Lepus townsendii</i>	White-tailed Jackrabbit	X	X	X	X	X	X	X	X	X	X	X	X
<b>Squirrels</b>													
<i>Cynomys gunnisoni</i>	Gunnison prairie dog				X			X	X	X		X	
<i>Cynomys leucurus</i>	White-tailed prairie dog								X	X			
<i>Cynomys ludovicianus</i>	Black-tailed prairie dog		X	X									X
<b>Pocket Gophers</b>													
<i>Thomomys bottae rubidus</i>	Botta's Pocket Gopher (rubidus ssp)				X								
<i>Thomomys talpoides macrotis</i>	Northern pocket gopher (macrotis ssp)		X	X	X								
<i>Perognathus fasciatus</i>	Olive-backed pocket mouse		X	X	X								
<b>Jumping Mice</b>													
<i>Zapus hudsonius preblei</i>	Meadow Jumping Mouse (both subspecies)												
<b>Dogs and Allies</b>													
<i>Canis lupus</i>	Gray Wolf - two subspecies (Northern and Mexican)				X		X	X	X				
<i>Vulpes macrotis</i>	Kit Fox							X	X	X	X		







Table C8, Part C - Mammals - Habitat associations of species of greatest conservation concern (Science Forum Results).

Scientific Name	Common Name	Forestlands											Tundra		Unvegetated	
		Aspen Forest	Spruce-Fir	Douglas Fir	Lodgepole Pine	Limber Pine	Ponderosa Pine	White Fir	Pinyon-Juniper	Rocky Mountain Bristlecone Pine	Mixed Conifer	Mixed Forest	Shrub Tundra	Meadow Tundra	Sandy Areas	Exposed Rock
<i>Vulpes macrotis</i>	Kit Fox															
<i>Vulpes velox</i>	Swift Fox															
<b>Bears</b>																
<i>Ursus arctos</i>	Grizzly bear	X	X	X	X	X	X	X		X	X	X	X	X		
<b>Weasels and Allies</b>																
<i>Conepatus leuconotus</i>	Common Hog-nosed Skunk								X							
<i>Gulo gulo</i>	Wolverine	X	X		X	X		X		X	X	X	X	X		X
<i>Lontra canadensis</i>	River Otter															
<i>Mustela nigripes</i>	Black-footed Ferret															
<b>Cattle and Allies</b>																
<i>Bison bison</i>	Bison															
<b>Cats</b>																
<i>Lynx canadensis</i>	Lynx		X	X	X			X			X					