

Appendix C. List of species that are indicative of the diversity and health of New Mexico’s wildlife (Indicative Species). Selection criteria and total score values are given. Abbreviations for selection criteria precede species list.

Selection Criteria
D - Declining
V - Vulnerable
E - Endemic, Disjunct or Keystone
W - Wide-ranging
R - Recreational, Economic, or Charismatic
T - Total Score is the Sum of the Above Criteria

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Fish							
Smallmouth Buffalo	<i>Ictiobus bubalus</i>	1					1
Blue Catfish	<i>Ictalurus furcatus</i>	1	1			1	3
Headwater Catfish	<i>Ictalurus lupus</i>	1	1	1		1	4
Chihuahua Chub	<i>Gila nigrescens</i>	1		1			2
Gila Chub	<i>Gila intermedia</i>	1		1			2
Headwater Chub	<i>Gila nigra</i>	1	1	1			3
Rio Grande Chub	<i>Gila pandora</i>	1					1
Roundtail Chub	<i>Gila robusta</i>	1	1	1			3
Speckled Chub	<i>Macrhybopsis aestivalis aestivalis</i>	1	1	1			3
Canadian Speckled Chub	<i>Macrhybopsis aestivalis tetranemus</i>	1	1	1			3
Southern Redbelly Dace	<i>Phoxinus erythrogaster</i>	1	1	1			3
Greenthroat Darter	<i>Etheostoma lepidum</i>	1	1	1			3
Pecos Gambusia	<i>Gambusia nobilis</i>	1	1	1			3
Rainwater Killifish	<i>Lucania parva</i>	1	1				2
Bigscale Logperch (Native pop.)	<i>Percina macrolepidia</i>	1	1	1			3
Loach Minnow	<i>Rhinichthys cobitis</i>	1	1	1			3
Rio Grande Silvery Minnow	<i>Hybognathus amarus</i>	1	1	1			3
Suckermouth Minnow	<i>Phenacobius mirabilis</i>	1	1				2
Colorado Pikeminnow	<i>Ptychocheilus lucius</i>	1	1		1	1	4
Pecos Pupfish	<i>Cyprinodon pecosensis</i>	1	1	1		1	4
White Sands Pupfish	<i>Cyprinodon tularosa</i>	1	1	1		1	4
Gray Redhorse	<i>Moxostoma congestum</i>	1	1	1			3
Mottled Sculpin	<i>Cottus bairdi</i>	1	1	1			3
Pecos Bluntnose Shiner	<i>Notropis simus pecosensis</i>	1	1	1			3
Rio Grande Shiner	<i>Notropis jemezianus</i>	1	1	1			3
Spikedace	<i>Meda fulgida</i>	1	1	1			3
Central Stoneroller	<i>Camptostoma anomalum</i>		1				1
Blue Sucker	<i>Cycleptus elongatus</i>	1	1	1			3
Zuni Bluehead Sucker	<i>Catostomus discobolus yarrowi</i>	1	1	1			3
Desert Sucker	<i>Catostomus clarki</i>	1					1
Razorback Sucker	<i>Xyrauchen texanus</i>	1	1		1		3
Rio Grande Sucker	<i>Catostomus plebeius</i>	1					1
Sonora Sucker	<i>Catostomus insignis</i>	1					1

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Mexican Tetra	<i>Astyanax mexicanus</i>		1				1
Gila Topminnow	<i>Poeciliopsis occidentalis occidentalis</i>	1	1				2
Rio Grande Cutthroat Trout	<i>Oncorhynchus clarki virginalis</i>	1		1		1	3
Gila Trout	<i>Oncorhynchus gilae</i>	1		1		1	3
Birds							
American Bittern	<i>Botaurus lentiginosus</i>	1	1	1	1	1	5
Common Black-Hawk	<i>Buteogallus anthracinus</i>	1	1	1	1	1	5
Painted Bunting	<i>Passerina ciris</i>		1	1	1	1	4
Varied Bunting	<i>Passerina versicolor</i>	1	1	1	1	1	5
Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	1	1	1	1		4
Sandhill Crane	<i>Grus canadensis</i>	1	1	1	1	1	5
Yellow-Billed Cuckoo	<i>Coccyzus americanus</i>	1	1	1	1	1	5
Long-Billed Curlew	<i>Numenius americanus</i>	1	1	1	1	1	5
Mourning Dove	<i>Zenaida macroura</i>	1	1	1	1	1	5
Northern Pintail	<i>Anas acuta</i>	1	1	1	1	1	5
Bald Eagle	<i>Haliaeetus leucocephalus</i>		1	1	1	1	4
Golden Eagle	<i>Aquila chrysaetos</i>	1	1	1	1	1	5
Aplomado Falcon	<i>Falco femoralis</i>	1	1	1	1	1	5
Peregrine Falcon	<i>Falco peregrinus</i>		1	1	1	1	4
Olive-Sided Flycatcher	<i>Contopus cooperi</i>	1	1		1	1	4
Southwestern Willow Flycatcher	<i>Empidonax traillii extimus</i>	1	1	1	1	1	5
Northern Goshawk	<i>Accipiter gentilis</i>	1	1	1	1	1	5
Eared Grebe	<i>Podiceps nigricollis</i>	1	1	1	1	1	5
Common Ground-Dove	<i>Columbina passerina</i>	1	1	1	1	1	5
Blue Grouse	<i>Dendragapus obscurus</i>	1	1	1		1	4
Northern Harrier	<i>Circus cyaneus</i>	1	1	1	1	1	5
Ferruginous Hawk	<i>Buteo regalis</i>	1	1	1	1	1	5
Broad-Billed Hummingbird	<i>Cynanthus latirostris</i>	1	1	1	1	1	5
Costa's Hummingbird	<i>Calypte costae</i>	1	1	1	1	1	5
Lucifer Hummingbird	<i>Calothorax lucifer</i>	1	1	1	1	1	5
Violet-Crowned Hummingbird	<i>Amazilia violiceps</i>	1	1	1	1	1	5
White-Faced Ibis	<i>Plegadis chihi</i>		1	1	1	1	4
Pinyon Jay	<i>Gymnorhinus cyanocephalus</i>	1	1	1	1	1	5
Yellow-Eyed Junco	<i>Junco phaeonotus</i>	1	1	1	1	1	5
Thick-Billed Kingbird	<i>Tyrannus crassirostris</i>	1	1	1	1	1	5
Hooded Oriole	<i>Icterus cucullatus</i>	1	1	1	1	1	5
Osprey	<i>Pandion haliaetus</i>		1	1	1	1	4
Boreal Owl	<i>Aegolius funereus</i>	1	1	1		1	4
Burrowing Owl	<i>Athene cunicularia</i>	1	1	1	1	1	5
Elf Owl	<i>Micrathene whitneyi</i>		1	1	1	1	4
Whiskered Screech-Owl	<i>Otus trichopsis</i>	1	1	1		1	4
Mexican Spotted Owl	<i>Strix occidentalis lucida</i>	1	1	1		1	4
Greater Pewee	<i>Contopus pertinax</i>	1	1	1	1	1	5
Wilson's Phalarope	<i>Phalaropus tricolor</i>		1	1	1	1	4
Band-tailed Pigeon	<i>Columba fasciata</i>	1	1	1	1	1	5
Sprague's Pipit	<i>Anthus spragueii</i>		1	1	1	1	4

Selection Criteria	
D	- Declining
V	- Vulnerable
E	- Endemic, Disjunct or Keystone
W	- Wide-ranging
R	- Recreational, Economic, or Charismatic
T	- Total Score is the Sum of the Above Criteria

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Mountain Plover	<i>Charadrius montanus</i>	1	1	1	1	1	5
Snowy Plover	<i>Charadrius alexandrinus</i>	1	1	1	1	1	5
Lesser Prairie-Chicken	<i>Tympanuchus pallidicinctus</i>	1	1	1		1	4
White-Tailed Ptarmigan	<i>Lagopus leucurus</i>	1	1	1		1	4
Montezuma Quail	<i>Cyrtonyx montezumae</i>	1	1	1		1	4
Scaled Quail	<i>Callipepla squamata</i>	1	1	1		1	4
Painted Redstart	<i>Myioborus pictus</i>		1	1	1	1	4
Williamson's Sapsucker	<i>Sphyrapicus thyroideus</i>		1	1	1	1	4
Loggerhead Shrike	<i>Lanius ludovicianus</i>	1	1	1	1	1	5
Baird's Sparrow	<i>Ammodramus bairdii</i>	1	1	1	1	1	5
Botteri's Sparrow	<i>Aimophila botterii</i>	1	1	1	1	1	5
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	1	1	1	1	1	5
Sage Sparrow	<i>Amphispiza belli</i>	1	1	1	1	1	5
Bank Swallow	<i>Riparia riparia</i>	1	1	1	1		4
Black Swift	<i>Cypseloides niger</i>		1	1	1	1	4
Interior Least Tern	<i>Sterna antillarum</i>	1	1	1	1	1	5
Bendire's Thrasher	<i>Toxostoma bendirei</i>	1		1	1	1	4
Sage Thrasher	<i>Oreoscoptes montanus</i>	1	1	1	1	1	5
Juniper Titmouse	<i>Baeolophus ridgwayi</i>	1	1	1		1	4
Abert's Towhee	<i>Pipilo aberti</i>	1	1	1		1	4
Elegant Trogon	<i>Trogon elegans</i>	1	1	1	1	1	5
Gould's Wild Turkey	<i>Meleagris gallopavo mexicana</i>	1	1	1		1	4
Northern Beardless-Tyrannulet	<i>Camptostoma imberbe</i>	1	1	1	1	1	5
Bell's Vireo	<i>Vireo bellii</i>	1	1	1	1	1	5
Gray Vireo	<i>Vireo vicinior</i>	1	1	1	1	1	5
Grace's Warbler	<i>Dendroica graciae</i>	1	1	1	1	1	5
Black-Throated Gray Warbler	<i>Dendroica nigrescens</i>	1	1	1	1	1	5
Lucy's Warbler	<i>Vermivora luciae</i>	1	1	1	1	1	5
Red-faced Warbler	<i>Cardellina rubrifrons</i>		1	1	1	1	4
Yellow Warbler	<i>Dendroica petechia</i>	1	1	1	1	1	5
Gila Woodpecker	<i>Melanerpes uropygialis</i>	1	1	1		1	4
Lewis's Woodpecker	<i>Melanerpes lewis</i>	1	1	1	1	1	5
Red-Headed Woodpecker	<i>Melanerpes erythrocephalus</i>	1	1	1	1	1	5
Mammals							
Allen's Big-Eared Bat	<i>Idionycteris phyllotis</i>		1		1		2
Pocketed Free-Tailed Bat	<i>Nyctinomops femorosacca</i>		1		1		2
Lesser Long-Nosed Bat	<i>Leptonycteris curasoae yerbabuena</i>		1		1		2
Mexican Long-Nosed Bat	<i>Leptonycteris nivalis</i>		1		1		2
Mexican Long-Tongued Bat	<i>Choeronycteris mexicana</i>		1		1		2
Arizona Myotis Bat	<i>Myotis occultus</i>		1		1		2
Western Red Bat	<i>Lasiurus blossevillii</i>		1		1		2
Spotted Bat	<i>Euderma maculatum</i>		1		1		2
Western Yellow Bat	<i>Lasiurus xanthinus</i>		1		1		2

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Black Bear	<i>Ursus americanus amblyceps</i>				1	1	2
American Beaver	<i>Castor canadensis</i>			1	1	1	3
Organ Mountains Colorado Chipmunk	<i>Neotamias quadrivittatus australis</i>	1	1				2
Oscura Mountains Colorado Chipmunk	<i>Neotamias quadrivittatus oscuraensis</i>	1	1				2
Penasco Least Chipmunk	<i>Neotamias minimus atristriatus</i>	1	1				2
White-Nosed Coati	<i>Nasua narica</i>			1		1	2
Mule Deer	<i>Odocoileus hemionus</i>	1			1	1	3
Coues' White-Tailed Deer	<i>Odocoileus virginianus couesi</i>				1	1	2
Swift Fox	<i>Vulpes velox velox</i>	1				1	2
Southern Pocket Gopher	<i>Thomomys umbrinus emotus</i>	1	1				2
Snowshoe Hare	<i>Lepus americanus bairdii</i>			1			1
Jaguar	<i>Panthera onca arizonensis</i>	1	1	1	1	1	5
American Marten	<i>Martes americana origenes</i>	1	1			1	3
New Mexico Meadow Jumping Mouse	<i>Zapus hudsonius luteus</i>	1	1				2
Northern Pygmy Mouse	<i>Baiomys taylori ater</i>	1	1				2
River Otter	<i>Lontra canadensis</i>					1	1
Goat Peak Pika	<i>Ochotona princeps nigrescens</i>	1	1				2
Black-Tailed Prairie Dog	<i>Cynomys ludovicianus</i>	1	1			1	3
Gunnison's Prairie Dog	<i>Cynomys gunnisoni</i>	1	1			1	3
White-Sided Jack Rabbit	<i>Lepus callotis gaillardi</i>	1	1				2
White-Tailed Jack Rabbit	<i>Lepus townsendii campanius</i>	1	1				2
Yellow-Nosed Cotton Rat	<i>Sigmodon ochrognathus</i>	1	1				2
Desert Bighorn Sheep	<i>Ovis canadensis mexicana</i>	1	1	1	1	1	4
Rocky Mountain Bighorn Sheep	<i>Ovis canadensis canadensis</i>	1	1	1	1	1	4
Arizona Shrew	<i>Sorex arizonae</i>	1	1				2
Least Shrew	<i>Cryptotis parva</i>	1	1				2
New Mexico Shrew	<i>Sorex neomexicanus</i>	1	1				2
Preble's Shrew	<i>Sorex preblei</i>	1	1				2
Abert's Squirrel	<i>Sciurus aberti</i>					1	1
Arizona Gray Squirrel	<i>Sciurus arizonensis arizonensis</i>			1		1	2
Arizona Montane Vole	<i>Microtus montanus arizonensis</i>	1	1				2
Prairie Vole	<i>Microtus ochrogaster haydenii</i>	1					1
Mexican Gray Wolf	<i>Canis lupus baileyi</i>	1	1	1	1	1	5
Amphibians							
Eastern Barking Frog	<i>Eleutherodactylus augusti latrans</i>			1			1
Western Chorus Frog	<i>Pseudacris triseriata</i>	1					1
Chiricahua Leopard Frog	<i>Rana chiricahuensis</i>			1			1
Lowland Leopard Frog	<i>Rana yavapaiensis</i>			1			1
Northern Leopard Frog	<i>Rana pipiens</i>			1			1
Plains Leopard Frog	<i>Rana blairi</i>			1			1
Rio Grande Leopard Frog	<i>Rana berlandieri</i>			1			1
Mountain Tree Frog	<i>Hyla eximia</i>	1					1
Jemez Mountain Salamander	<i>Plethodon neomexicanus</i>	1	1				2
Sacramento Mountain Salamander	<i>Aneides hardii</i>	1	1				2
Tiger Salamander	<i>Ambystoma tigrinum</i>	1					1
Arizona Toad	<i>Bufo microscaphus microscaphus</i>	1	1				2

Selection Criteria	
D	- Declining
V	- Vulnerable
E	- Endemic, Disjunct or Keystone
W	- Wide-ranging
R	- Recreational, Economic, or Charismatic
T	- Total Score is the Sum of the Above Criteria

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Western Boreal Toad	<i>Bufo boreas boreas</i>	1					1
Colorado River Toad	<i>Bufo alvarius</i>			1			1
Great Plains Narrowmouth Toad	<i>Gastrophryne olivacea</i>		1	1			2
Reptiles							
Western River Cooter	<i>Pseudemys gorzugi</i>	1	1	1			3
Texas Banded Gecko	<i>Coleonyx brevis</i>					1	1
California Kingsnake	<i>Lampropeltis getula californiae</i>			1		1	2
Gray-banded Kingsnake	<i>Lampropeltis alterna</i>					1	1
Sonoran Mountain Kingsnake	<i>Lampropeltis pyromelana</i>					1	1
Madrean Alligator Lizard	<i>Elgaria kingii nobilis</i>		1				1
Collared Lizard	<i>Crotaphytus collaris</i>					1	1
Bleached Earless Lizard	<i>Holbrookia maculata ruthveni</i>			1			1
Bunch Grass Lizard	<i>Sceloporus slevini</i>	1	1	1			3
Regal Horned Lizard	<i>Phrynosoma solare</i>		1				1
Sand Dune Lizard	<i>Sceloporus arenicolus</i>	1	1	1			3
Southwestern Fence Lizard	<i>Sceloporus cowlesi</i>			1			1
Desert Massasauga	<i>Sistrurus catenatus edwardsii</i>	1	1				2
Reticulate Gila Monster	<i>Heloderma suspectum suspectum</i>					1	1
Western Diamondback Rattlesnake	<i>Crotalus atrox</i>					1	1
New Mexico Ridgenose Rattlesnake	<i>Crotalus willardi obscurus</i>		1	1		1	3
Banded Rock Rattlesnake	<i>Crotalus lepidus klauberi</i>					1	1
Mottled Rock Rattlesnake	<i>Crotalus lepidus lepidus</i>					1	1
Mountain Skink	<i>Eumeces callicephalus</i>		1	1			2
Big Bend Slider	<i>Trachemys gaigeae</i>		1	1			2
Yaqui Blackhead Snake	<i>Tantilla yaquia</i>		1	1			2
Mexican Garter Snake	<i>Thamnophis eques megalops</i>	1	1	1			3
Narrowhead Garter Snake	<i>Thamnophis rufipunctatus rufipunctatus</i>		1	1			2
New Mexico Garter Snake	<i>Thamnophis sirtalis dorsalis</i>		1				1
Milk Snake	<i>Lampropeltis triangulum</i>					1	1
Green Rat Snake	<i>Senticolis triaspis intermedia</i>		1	1		1	3
Arid Land Ribbon Snake	<i>Thamnophis proximus diabolicus</i>		1				1
Blotched Water Snake	<i>Nerodia erythrogaster transversa</i>		1	1			2
Ornate Box Turtle	<i>Terrapene ornata</i>					1	1
Sonoran Mud Turtle	<i>Kinosternon sonoriense</i>		1				1
Western Painted Turtle	<i>Chrysemys picta bellii</i>		1				1
Midland Smooth Softshell Turtle	<i>Apalone mutica mutica</i>		1				1
Gray-Checkered Whiptail	<i>Aspidoscelis dixonii</i>			1			1
Giant Spotted Whiptail	<i>Aspidoscelis burtii</i>			1			1
Little White Whiptail	<i>Aspidoscelis gypsi</i>			1			1

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
<i>Molluscs</i>							
Alamosa Springsnail	<i>Pseudotryonia alamosae</i>		1	1			2
Blunt Ambersnail	<i>Oxyloma retusum</i>	1	1	1			3
Lake Fingernailclam	<i>Musculium lacustre</i>			1			1
Long Fingernailclam	<i>Musculium transversum</i>			1			1
Swamp Fingernailclam	<i>Musculium partumeium</i>			1			1
Texas Hornshell	<i>Popenaias popeii</i>	1	1	1			3
Wrinkled Marshsnail	<i>Stagnicola caperata</i>		1	1			2
Mountainsnail	<i>Oreohelix nogalensis</i>		1	1			2
Bearded Mountainsnail	<i>Oreohelix barbata</i>		1	1			2
Black Range Mountainsnail	<i>Oreohelix metcalfei concentrica</i>		1	1			2
Black Range Mountainsnail	<i>Oreohelix metcalfei radiata</i>		1	1			2
Black Range Mountainsnail	<i>Oreohelix metcalfei metcalfei</i>		1	1			2
Black Range Mountainsnail	<i>Oreohelix metcalfei hermosensis</i>		1	1			2
Black Range Mountainsnail	<i>Oreohelix metcalfei cuchillensis</i>		1	1			2
Black Range Mountainsnail	<i>Oreohelix metcalfei acutidiscus</i>		1	1			2
Diablo Mountainsnail	<i>Oreohelix houghi</i>		1	1			2
Fringed Mountainsnail	<i>Radiocentrum ferrissi</i>	1	1	1			3
Hacheta Mountainsnail	<i>Radiocentrum hachetanum</i>	1	1	1			3
Magdalena Mountainsnail	<i>Oreohelix magdalenae</i>		1	1			2
Mineral Creek Mountainsnail	<i>Oreohelix pilsbryi</i>		1	1			2
Morgan Creek Mountainsnail	<i>Oreohelix swopei</i>		1	1			2
Pinos Altos Mountainsnail	<i>Oreohelix confragosa</i>		1	1			2
Rocky Mountainsnail	<i>Oreohelix strigosa depressa</i>			1			1
San Augustin Mountainsnail	<i>Oreohelix litoralis</i>		1	1			2
Socorro Mountainsnail	<i>Oreohelix neomexicana</i>		1	1			2
Subalpine Mountainsnail	<i>Oreohelix subrudis</i>		1	1			2
Paper Pondshell Mussel	<i>Utterbackia imbecillis</i>		1	1			2
Lilljeborg's Peaclam	<i>Pisidium lilljeborgi</i>		1	1			2
Sangre de Cristo Peaclam	<i>Pisidium sanguinichristi</i>	1	1	1			3
Creeping Ancyloid Snail	<i>Ferrissia rivularis</i>		1	1			2
Pecos Assiminea Snail	<i>Assiminea pecos</i>	1	1	1			3
Crestless Column Snail	<i>Pupilla hebes</i>			1			1
Amber Glass Snail	<i>Nesovitrea hammonis electrina</i>			1			1
Western Glass Snail	<i>Vitrina pellucida alaskana</i>		1	1			2
Animas Mountains Holospira Snail	<i>Holospira animasensis</i>		1	1			2
Cockerell Holospira Snail	<i>Holospira cockerelli</i>		1	1			2
Cross Holospira Snail	<i>Holospira crossei</i>		1	1			2
Metcalf Holospira Snail	<i>Holospira metcalfi</i>		1	1			2
Vagabond Holospira Snail	<i>Holospira montivaga</i>		1	1			2
Texas Liptooth Snail	<i>Linisa texasiana</i>		1	1			2
Distorted Metastoma Snail	<i>Metastoma roemeri</i>		1	1			2
Chupadera Pyrg Snail	<i>Pyrgulopsis chupaderae</i>	1	1	1			3
Gila Pyrg Snail	<i>Pyrgulopsis gilae</i>		1	1			2
New Mexico Hotspring Pyrg Snail	<i>Pyrgulopsis thermalis</i>		1	1			2
Pecos Pyrg Snail	<i>Pyrgulopsis pecosensis</i>	1	1	1			3
Roswell Pyrg Snail	<i>Pyrgulopsis roswellensis</i>	1	1	1			3

Selection Criteria	
D	- Declining
V	- Vulnerable
E	- Endemic, Disjunct or Keystone
W	- Wide-ranging
R	- Recreational, Economic, or Charismatic
T	- Total Score is the Sum of the Above Criteria

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Socorro Pyrg Snail	<i>Pyrgulopsis neomexicana</i>	1	1	1			3
Whitewashed Radabotus Snail	<i>Radbotus dealbatus neomexicanus</i>			1			1
New Mexico Ramshorn Snail	<i>Pecosorbis kansasensis</i>		1	1			2
Marsh Slug Snail	<i>Deroceras heterura</i>		1	1			2
Apache Snaggletooth Snail	<i>Gastrocopta cochisensis</i>		1	1			2
Ruidoso Snaggletooth Snail	<i>Gastrocopta armifera ruidosensis</i>		1	1			2
Shortneck Snaggletooth Snail	<i>Gastrocopta dalliana dalliana</i>		1	1			2
Sonoran Snaggletooth Snail	<i>Gastrocopta prototypus</i>		1	1			2
Spruce Snail	<i>Microphysula ingersolli</i>			1			1
Star Gyro Snail	<i>Gyraulus crista</i>		1	1			2
Obese Thorn Snail	<i>Carychium exiguum</i>			1			1
Three-Toothed Column Snail	<i>Pupilla sonorana</i>		1	1			2
Northern Treeband Snail	<i>Humboldtiana ultima</i>		1	1			2
Koster's Tryonia Snail	<i>Juturnia kosteri</i>	1	1	1			3
Bishop Tubeshell Snail	<i>Coelostemma pyrgonasta</i>		1	1			2
Vallonia Snail	<i>Vallonia sonorana</i>		1	1			2
Blade Vertigo Snail	<i>Vertigo milium</i>	1	1	1			3
Cross Vertigo Snail	<i>Vertigo modesta ingersolli</i>		1	1			2
Heart Vertigo Snail	<i>Vertigo hinkleyi</i>		1	1			2
Ovate Vertigo Snail	<i>Vertigo ovata</i>	1	1	1			3
Tapered Vertigo Snail	<i>Vertigo elatior</i>		1	1			2
Animas Talussnail	<i>Sonorella animasensis</i>		1	1			2
Big Hatchet Mountain Talussnail	<i>Sonorella hachitana hachitana</i>	1	1	1			3
Dona Ana Talussnail	<i>Sonorella todseni</i>		1	1			2
Florida Mountain Talussnail	<i>Sonorella hachitana flora</i>		1	1			2
Franklin Mountain Talussnail	<i>Sonorella metcalfi</i>		1	1			2
Organ Mountain Talussnail	<i>Sonorella orientis</i>		1	1			2
Peloncillo Mountain Talussnail	<i>Sonorella hachitana peloncillensis</i>		1	1			2
San Luis Mountains Talussnail	<i>Sonorella n. sp.</i>		1	1			2
Tularosa springsnail	<i>Juturnia tularosae</i>		1	1			2
Woodlandsnail	<i>Ashmunella rhyssa altissima</i>		1	1			2
Woodlandsnail	<i>Ashmunella amblya cornudasensis</i>		1	1			2
Woodlandsnail	<i>Ashmunella kochii sanandresensis</i>		1	1			2
Woodlandsnail	<i>Ashmunella kochii caballoensis</i>	1	1	1			3
Woodlandsnail	<i>Ashmunella auriculata</i>		1	1			2
Animas Peak Woodlandsnail	<i>Ashmunella animasensis</i>		1	1			2
Big Hatchet Woodlandsnail	<i>Ashmunella mearnsii</i>	1	1	1			3
Black Range Woodlandsnail	<i>Ashmunella cockerelli cockerelli</i>		1	1			2
Black Range Woodlandsnail	<i>Ashmunella cockerelli argenticola</i>		1	1			2
Black Range Woodlandsnail	<i>Ashmunella cockerelli perobtusa</i>		1	1			2
Capitan Woodlandsnail	<i>Ashmunella pseudodonta</i>		1	1			2
Cook's Peak Woodlandsnail	<i>Ashmunella macromphala</i>		1	1			2
Whitewater Creek Woodlandsnail	<i>Ashmunella danielsi danielsi</i>		1	1			2
Whitewater Creek Woodlandsnail	<i>Ashmunella danielsi dispar</i>		1	1			2

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Dry Creek Woodlandsnail	<i>Ashmunella tetrodon tetrodon</i>		1	1			2
Dry Creek Woodlandsnail	<i>Ashmunella tetrodon mutator</i>		1	1			2
Dry Creek Woodlandsnail	<i>Ashmunella tetrodon inermis</i>		1	1			2
Dry Creek Woodlandsnail	<i>Ashmunella tetrodon animorum</i>		1	1			2
Dry Creek Woodlandsnail	<i>Ashmunella tetrodon fragilis</i>		1	1			2
Florida Mountain Woodlandsnail	<i>Ashmunella walkeri</i>		1	1			2
Franklin Mountain Woodlandsnail	<i>Ashmunella pasonis pasonis</i>		1	1			2
Goat Mountain Woodlandsnail	<i>Ashmunella harrisi</i>		1	1			2
Guadalupe Woodlandsnail	<i>Ashmunella carlbadosensis</i>		1	1			2
Hacheta Grande Woodlandsnail	<i>Ashmunella hebaridi</i>	1	1	1			3
Iron Creek Woodlandsnail	<i>Ashmunella mendax</i>		1	1			2
Jemez Woodlandsnail	<i>Ashmunella ashmuni</i>			1			1
Maple Canyon Woodlandsnail	<i>Ashmunella todseni</i>		1	1			2
Mogollon Woodlandsnail	<i>Ashmunella mogollonensis</i>		1	1			2
Mount Riley Woodlandsnail	<i>Ashmunella rileyensis</i>		1	1			2
Organ Mountain Woodlandsnail	<i>Ashmunella organensis</i>		1	1			2
Salinas Peak Woodlandsnail	<i>Ashmunella salinasensis</i>		1	1			2
San Andres Woodlandsnail	<i>Ashmunella kochii kochii</i>		1	1			2
Sangre de Cristo Woodlandsnail	<i>Ashmunella thomsoniana</i>			1			1
Sierra Blanca Woodlandsnail	<i>Ashmunella rhyssa rhyssa</i>		1	1			2
Silver Creek Woodlandsnail	<i>Ashmunella binneyi</i>		1	1			2
Crustaceans							
Akali Fairy Shrimp	<i>Branchinecta mackini</i>		1	1			2
BLNWR cryptic species Amphipod	<i>Gammarus sp.</i>		1	1			2
Sit. Bull Sp. cryptic species Amphipod	<i>Gammarus sp.</i>		1	1			2
Noel's Amphipod	<i>Gammarus desperatus</i>	1	1	1			3
Beavertail Fairy Shrimp	<i>Thamnocephalus platyurus</i>		1	1			2
Brine Shrimp	<i>Artemia franciscana</i>		1	1			2
Colorado Fairy Shrimp	<i>Branchinecta coloradensis</i>		1	1			2
Conchas Crayfish	<i>Orconectes deanae</i>		1	1			2
No Common Name	<i>Procambarus simulans simulans</i>		1	1			2
Northern Crayfish (Canadian River)	<i>Orconectes virilis</i>		1	1			2
Great Plains Fairy Shrimp	<i>Streptocephalus texanus</i>		1	1			2
Socorro Isopod	<i>Thermosphaeroma thermophilum</i>		1	1			2
Knobblip Fairy Shrimp	<i>Eubranchipus bundyi</i>		1	1			2
Mexican Beavertail Fairy Shrimp	<i>Thamnocephalus mexicanus</i>		1	1			2
Moore's Fairy Shrimp	<i>Streptocephalus moorei</i>		1	1			2
No Common Name	<i>Cyzicus sp. (mexicanus?)</i>		1	1			2
No Common Name	<i>Eocyclus concavus</i>		1	1			2
No Common Name	<i>Eocyclus digueti</i>		1	1			2
No Common Name	<i>Eulimnadia antlei</i>		1	1			2
No Common Name	<i>Eulimnadia cylindrova</i>		1	1			2
No Common Name	<i>Eulimnadia diversa</i>		1	1			2
No Common Name	<i>Eulimnadia follismilis</i>		1	1			2
No Common Name	<i>Eulimnadia texana</i>		1	1			2
No Common Name	<i>Lepidurus lemmoni</i>		1	1			2

Selection Criteria					
D	-	Declining			
V	-	Vulnerable			
E	-	Endemic, Disjunct or Keystone			
W	-	Wide-ranging			
R	-	Recreational, Economic, or Charismatic			
T	-	Total Score is the Sum of the Above Criteria			

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
No Common Name	<i>Lynceus brevifrons</i>	1	1				2
No Common Name	<i>Streptocephalus n. sp. 1</i>	1	1				2
No Common Name	<i>Streptocephalus n. sp. 2</i>	1	1				2
Packard's Fairy Shrimp	<i>Branchinecta packardi</i>	1	1				2
Tadpole Shrimp	<i>Triops sp.</i>	1					1
Sideswimmers / Scuds	<i>Hyaella spp.</i>	1	1				2
Sublette's Fairy Shrimp	<i>Phallocryptis subletti</i>	1	1				2
Versatile Fairy Shrimp	<i>Branchinecta lindahli</i>	1	1				2
Other Arthropods¹							
<u>Arachnids (Arachnida)</u>							
Cave Obligate Harvestman	<i>Texella longistyla</i>						
Cave Obligate Harvestman	<i>Texella welbourni</i>						
Cave Obligate Mite	<i>Ceuthothrombium cavaticum</i>		1	1			2
Cave Obligate Pseudoscorpion	<i>Aphrastochthonius pachysetus</i>						
Cave Obligate Pseudoscorpion	<i>Chitrella welbourni</i>						
Cave Obligate Pseudoscorpion	<i>Neoallochernes incertus</i>						
Peloncillo Scorpion	<i>Diplocentrus pelloncillensis</i>			1			1
Jemez Spider	<i>Hypochilus jemez</i>			1			1
<u>Centipede (Chilopoda)</u>							
Cave Obligate Centipede	<i>Thalkethops grallatrix</i>			1		1	2
<u>Millipedes (Diplopoda)</u>							
Cave Obligate Millipede	<i>Speodesmus tunganbuis</i>						
Chihuahuan Millipede	<i>Comanchelus chihuahuanus</i>			1	1		2
<u>Springtails (Entognatha)</u>							
Cave Obligate Springtail	<i>Oncopodura prietoi</i>						
Cave Obligate Springtail	<i>Pseudosinella vita</i>						
Cave Obligate Springtail	<i>Tomocerus grahami</i>						
<u>Insects (Insecta)</u>							
Ant	<i>Aphaenogaster punctaticeps</i>			1			1
Ant	<i>Leptothorax bestelmeyeri</i>			1			1
Ant	<i>Leptothorax colleenae</i>			1			1
Capulin Mountain Arctic	<i>Oeneis alberta capulinensis</i>	1	1	1			3
Andrenid Bee	<i>Andrena mimbresensis</i>			1			1
Andrenid Bee	<i>Andrena neffi</i>			1			1
Andrenid Bee	<i>Andrena vogleri</i>			1			1
Andrenid Bee	<i>Perdita austini</i>			1			1
Andrenid Bee	<i>Perdita biparticeps</i>			1			1
Andrenid Bee	<i>Perdita claripennis</i>			1			1
Andrenid Bee	<i>Perdita geminata</i>			1			1
Andrenid Bee	<i>Perdita grandiceps</i>			1			1
Andrenid Bee	<i>Perdita maculipes</i>			1			1
Andrenid Bee	<i>Perdita mesillensis</i>			1			1
Andrenid Bee	<i>Perdita senecionis</i>			1			1

Appendix C Indicative Species

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Andrenid Bee	<i>Perdita sidae</i>			1			1
Andrenid Bee	<i>Perdita tarda</i>			1			1
Andrenid Bee	<i>Perdita viridinotata</i>			1			1
Centris Bee	<i>Centris caesalpinneae</i>	1	1				2
Leaf-Cutter Bee	<i>Osmia phenax</i>			1			1
Leaf-Cutter Bee	<i>Osmia prunorum</i>			1			1
Mason Bee	<i>Osmia watsonii</i>	1	1				2
Melittid Bee	<i>Hesperapis elegantulus</i>			1			1
Bark Beetle	<i>Pityophthorus franseriae</i>			1			1
Bark Beetle	<i>Pityophthorus torridus</i>			1			1
Anthony Blister Beetle	<i>Lytta mirifica</i>	1	1				2
Bonita Diving Beetle	<i>Deronectes neomexicanus</i>	1	1				2
Southwestern Hercules Beetle	<i>Dynastes granti</i>	1	1			1	3
Glorious Jewel Beetle	<i>Chrysis gloriosa [Plusiotus]</i>	1	1			1	3
Leconte's Jewel Beetle	<i>Chrysis lecontei [Plusiotus]</i>	1	1			1	3
Wood's Jewel Beetle	<i>Chrysis woodi [Plusiotus]</i>	1	1			1	3
Animas Minute Moss Beetle	<i>Limnebius aridus</i>	1	1	1			3
Tiger Beetle	<i>Amblychila picolomini</i>	1	1				2
Glittering Tiger Beetle	<i>Cicindela fulgoris albilata</i>			1		1	2
Guadalupe Mountains Tiger Beetle	<i>Cicindela politula²</i>			1		1	2
Los Olmos Tiger Beetle	<i>Cicindela nevadica olmosa</i>		1	1		1	3
Maricopa Tiger Beetle	<i>Cicindela oregona maricopa</i>	1	1	1		1	4
Nevada Tiger Beetle	<i>Cicindela nevadica tubensis</i>	1	1	1		1	4
Buchholz's Boisduval's Blue	<i>Plebejus icarioides buchholzi</i>			1			1
Mogollon Rim Greenish Blue	<i>Plebejus saepiolus gertschi</i>	1					1
Buckmoth	<i>Hemileuca (chinatiensis) comwayae</i>			1		1	2
Buckmoth	<i>Hemileuca (nevadensis) artemis</i>	1	1			1	3
Buckmoth	<i>Hemileuca hera magnifica</i>	1	1			1	3
Mountain Checkered-Skipper	<i>Pyrgus xanthus</i>	1	1				2
Chalcedon Checkerspot	<i>Euphydryas chalcedona chuskae</i>			1			1
Sacramento Mountain Checkerspot	<i>Euphydryas chalcedona cloudercrofti</i>	1					1
Tawny Crescent	<i>Phyciodes batesii</i>			1			1
Mescalero Camel Cricket	<i>Ceuthophilus mescalero</i>	1	1				2
Organ Mountains Camel Cricket	<i>Ceuthophilus leptopus</i>	1	1				2
Rodent Burrow Camel Cricket	<i>Ceuthophilus fissicaudus</i>	1	1				2
Gypsum Sand-Treader Camel Cricket	<i>Diahinioides larvale</i>			1			1
White Sands Sand-Treader Camel Cricket	<i>Ammobaenetes arenicolus</i>			1			1
Carlsbad Cave Cricket	<i>Ceuthophilus longipes</i>	1	1				2
Mescalero Sands Jerusalem Cricket	<i>Stenopelmatus mescaleroensis</i>	1	1				2
Arroyo Darner	<i>Aeshna dugesi</i>	1	1				2
Ellis Dotted-Blue	<i>Euphilotes ellisi</i>	1	1				2
Spalding's Dotted-Blue	<i>Euphilotes spaldingi</i>	1	1				2
Bleached Skimmer Dragonfly	<i>Libellula omposite</i>	1	1				2
Scudder's Duskywing	<i>Erynnis scudderi</i>			1			1
Dusty-Wing	<i>Bidesmida morrisoni</i>			1			1
Desert Elfin	<i>Callophrys fotis</i>			1			1
Bee Fly	<i>Caenotus inornatus</i>			1			1

Selection Criteria	
D	- Declining
V	- Vulnerable
E	- Endemic, Disjunct or Keystone
W	- Wide-ranging
R	- Recreational, Economic, or Charismatic
T	- Total Score is the Sum of the Above Criteria

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Bee Fly	<i>Caenotus minutus</i>			1			1
Long-Legged Fly	<i>Chrysotus parvulus</i>			1			1
Long-Legged Fly	<i>Neurigona perbrevis</i>			1			1
Long-Legged Fly	<i>Thinophilus magnipalpus</i>			1			1
Mydas Fly	<i>Rhaphiomidas painteri</i>		1	1			2
Robber Fly	<i>Efferia cuervana</i>		1	1			2
Robber Fly	<i>Furcilla delicatula</i>			1			1
Robber Fly	<i>Megaphorus lascrucensis</i>		1	1			2
Soldier Fly	<i>Adoxomyia albopilosa</i>			1			1
Capitan Mountains Fritillary	<i>Speyeria hesperis capitanensis</i>			1			1
Freija Fritillary	<i>Boloria freija</i>		1				1
Nitocris Fritillary	<i>Speyeria nokomis nitocris</i>		1	1		1	3
Nokomis Fritillary	<i>Speyeria nokomis nokomis</i>		1	1			2
Raton Mesa Fritillary	<i>Speyeria hesperis ratonensis</i>			1			1
Silver-bordered Fritillary	<i>Boloria selene</i>		1				1
Grasshopper	<i>Aeoloplides rotundipennis</i>			1			1
Grasshopper	<i>Cibolacris samalayuca</i>		1	1			2
Band-Winged Grasshopper	<i>Trimerotropis salina</i>		1	1			2
Hebard's Blue-Winged Desert Grasshopper	<i>Anconia hebardii</i>		1	1			2
Lichen Grasshopper	<i>Leuronotina ritensis</i>			1			1
Nevada Point-Headed Grasshopper	<i>Acrolophitus nevadensis</i>		1	1	1		3
Shotwell's Range Grasshopper	<i>Shotwellia isleta</i>		1	1			2
Spur-Throat Grasshopper	<i>Melanoplus calidus</i>			1			1
Spur-Throat Grasshopper	<i>Melanoplus magdalenae</i>			1			1
Ilavia Hairstreak	<i>Fixsenia (Satyrium) ilavia</i>	1	1	1			3
Poling's Hairstreak	<i>Satyrium polingi organensis</i>		1				1
Sandia Hairstreak	<i>Callophrys mcfarlandi</i>					1	1
Oslar's Soapberry Hairstreak	<i>Phaeostrymon alcestis oslari</i>			1			1
Xami Hairstreak	<i>Callophrys xami</i>			1			1
Mescalero Sands Katydid	<i>Plagiostira mescaleroensis</i>			1			1
Mayfly	<i>Hexagenia bilineata</i>						
Mayfly	<i>Homoeonuria alleni</i>		1	1			2
Mayfly	<i>Lachlania dencyannae</i>						
Mayfly	<i>Leucrocota petersi</i>						
Arizona Metalmark	<i>Calephelis rawsoni arizonensis</i>		1	1			2
Moth	<i>Carales arizonensis</i>						
Borer Moth	<i>Papaipema dribi</i>		1	1			2
Albarufan Dagger Moth	<i>Acrionicta albarufa</i>						
Geometrid Moth	<i>Nemoria rindgei</i>						
Noctuid Moth	<i>Schinia zuni</i>						
Notodontid Moth	<i>Euhyparpax rosea</i>			1			1
Notodontid Moth	<i>Oligocentria delicata</i>			1		1	2
Pyralid Moth	<i>Loxostege quaestoralis</i>						
Tiger Moth	<i>Alexicles aspersa</i>						

Appendix C Indicative Species

Appendix C Cont.

Common Name	Scientific Name	Selection Criteria					
		D	V	E	W	R	T
Mirid Plant Bug	<i>Phytocoris alomogordo</i>			1			1
Dashed Ringtail	<i>Erpetogomphus heterodon</i>	1				1	2
Cassus Roadside-Skipper	<i>Amblyscirtes cassus</i>	1	1				2
Large Roadside-Skipper	<i>Amblyscirtes exotera</i>	1	1				2
Slaty Roadside-Skipper	<i>Amblyscirtes nereus</i>	1	1				2
Texas Roadside-Skipper	<i>Amblyscirtes texanae</i>	1	1				2
Silkmoth	<i>Automeris io neomexicana</i>			1			1
Zephyr Eyed Silkmoth	<i>Automeris zephyria</i>			1			1
Apache Skipper	<i>Hesperia woodgatei</i>	1	1				2
Arizona Agave Borer Skipper	<i>Agathymus neumoegeni neumoegeni</i>			1			1
Carlsbad Agave Borer Skipper	<i>Agathymus neumoegeni carlsbadensis</i>			1			1
Viola's Yucca Borer Skipper	<i>Megathymus ursus violae</i>			1			1
Western Crossline Skipper	<i>Polites origenes rhena</i>	1	1				2
Deva Skipper	<i>Atrytonopsis deva</i>	1	1				2
Mary's Giant Skipper	<i>Agathymus mariae</i>			1			1
Poling's Giant Skipper	<i>Agathymus polingi</i>			1			1
Ursine Giant Skipper	<i>Megathymus ursus ursus</i>			1			1
Western Hobomok Skipper	<i>Poanes hobomok wetona</i>	1	1				2
Moon-Marked Skipper	<i>Atrytonopsis lunus</i>	1	1				2
Sunrise Skipper	<i>Adopaeoides prittwitzi</i>	1					1
Yuma Skipper	<i>Ochlodes yuma anasazi</i>			1			1
Four-Spotted Skipperling	<i>Piruna polingii</i>	1	1				2
Arizona Snaketail	<i>Ophiogomphus arizonicus</i>	1				1	2
West's Primrose Sphinx	<i>Euproserpinus wiesti</i>						
Vega Sphinx	<i>Proserpinus vega</i>			1			1
Stonefly	<i>Capnia caryi</i>						
Stonefly	<i>Isoperla jewetti</i>	1	1	1			3
Stonefly	<i>Taenionema jacobii</i>						
Arizona Viceroy	<i>Limenitis archippus obsoleta</i>	1	1		1		3
Tarantula Hawk Wasp	<i>Pepsis formosa</i>					1	1
Velvet Ant Wasp	<i>Dasymutilla homole</i>			1			1
Velvet Ant Wasp	<i>Odontophotopsis augusta</i>			1			1
Velvet Ant Wasp	<i>Odontophotopsis grata</i>			1			1
Chiricahua White	<i>Neophasia terlootii</i>	1					1

¹ Other arthropods (arachnida, chilopoda, diplopoda, entognatha, and insecta) were not placed on the indicative species list using the above selection criteria due to lack of knowledge on most species.

² ssp. petrophila, viridimonticola, barbarannae