

Appendix 6

Terrestrial and Aquatic Species

Contents

Introduction	6-2
Table 1. Threatened, Endangered, Proposed, or Candidate Species	6-3
Table 2. Sensitive Vertebrate and Plant Species	6-4
Table 3. Terrestrial Vertebrate Species of Focus Used in the Evaluation of Alternatives	6-20
Table 4. Plants with a Natural Heritage Rank G1-G3 Included in Evaluation of Alternatives	6-24
Table 5. Vertebrates Not Used in the Evaluation of Alternatives	6-31
Table 6. Effects of Road-associated Factors on Habitats and Populations of Broad-scale Species ...	6-39
Table 7. Broadly Distributed Plants	6-44
Table 8. Vascular Plants (G1-G3) and Nonvascular Plants (S1-S3)	6-47

Introduction

This appendix provides several lists of species referred to in this EIS. These lists include: threatened, endangered, proposed, and candidate species; sensitive vertebrates and plants; vascular plants used to evaluate the alternatives; terrestrial vertebrates used to evaluate the alternatives; broadly distributed plants; vertebrates not analyzed; vascular plants with a Natural Heritage rank of G1-G3 and non-vascular plants with a rank of S1-S3; and vertebrates affected by roads. Unless otherwise noted, the lists in this appendix were updated in July 1999 to make changes that have occurred since the Draft EISs were published.

Table 1 lists the federally listed threatened, endangered, proposed, and candidate species within the project area.

Table 2 lists the sensitive vertebrate and plant species designated by the BLM and Forest Service within the project area.

Table 3 lists the terrestrial vertebrate species used in the evaluation of alternatives.

Table 4 is a list of the plants in the project area used in the evaluation of alternatives and their Natural Heritage Ranking of G1 - G3 and / or T1 - T3.

Table 5 lists the vertebrates that were not used in the evaluation of the alternatives because they are more appropriate to evaluate at a finer scale than the ICBEMP EIS, or no analysis done, and not recommended for fine-scale analysis.

Table 6 lists the broad-scale species of focus and the effects of road-related factors on them and their habitats. The factors and effects listed here were documented from empirical literature and literature summaries, with each number listed below denoting a footnoted study (Wisdom et al. in press). Presumed effects are denoted by a letter corresponding to a footnote that describes each presumed effect and cites the supporting literature related to other species. Blank cells indicate no research results were found on the factor in relation to the species, and should not be interpreted to indicate no effects occur from the factor.

Table 7 is a list of plant species of concern that are considered to be broadly distributed because they occur in two or more administrative units. These plants are referenced in Objective B-O46.

Table 8 is a list of vascular plants that are ranked by the Natural Heritage Projects as G1-G3 and non-vascular plants ranked as S1- S3 (see Standard B-S47). Table 4 in this appendix explains the ranking system.

Table 1. Threatened, Endangered, Proposed, or Candidate Species.

	Approved Recovery Plan	Designated Critical Habitat
Threatened (16 spp.)		
Bald eagle	Yes	No
Warner sucker	No	Yes
Hutton Spring tui chub	No	No
Lahontan cutthroat trout	Yes	No
Foskett speckled dace	No	No
Snake River chinook salmon (spring/summer)	No	Yes
Snake River chinook salmon (fall)	No	Yes
Grizzly bear	Yes	No
Water howellia	No	No
MacFarlane's four o'clock	Yes	Yes
Bliss Rapids snail	Yes	No
Ute's lady tresses	No	No
Howell's spectacular thelypody	No	No
Bull trout (Columbia River)	No	No
Snake River steelhead	No	No
Mid-Columbia steelhead	No	No
Endangered (19 spp.)		
Shorthose sucker	No	No
Lost River sucker	No	No
Borax Lake chub	Yes	Yes
Snake River sockeye salmon	No	No
Woodland caribou	Yes	No
Gray wolf	Yes	No
Applegate's milk-vetch	No	No
Malheur wire-lettuce	No	No
Kootenai River white sturgeon	No	No
Idaho springsnail	Yes	No
Utah valvata snail	Yes	No
Snake River physa snail	Yes	No
Banbury springs lanx	Yes	No
Bruneau hot springsnail	No	No
Whooping crane	Yes	Yes
Bull trout (Klamath River)	No	No
Upper Columbia steelhead	No	No
Upper Columbia chinook salmon	No	No
Wenatchee Mountains (Oregon) Checkermallow	No	No
Proposed (3 spp.)		
Spalding's catchfly (PE)	No	No
Canada lynx (PT)	No	No
Northern Idaho ground squirrel (PT)	No	No
Candidate (10 spp.)		
Oregon spotted frog	No	No
Columbia spotted frog	No	No
Basalt daisy	No	No
Christ's paintbrush	No	No
Northern Wormwood	No	No
Umtanum desert-buckwheat	No	No
Showy stickseed	No	No
Slick spot peppergrass	No	No
White Bluffs bladderpod	No	No
Washington Ground Squirrel	No	No

note: this table is current as of November 1999

Table 2. Sensitive Vertebrate and Plant Species

Common Name	Scientific Name	BLM			Forest Service Region		
		OR/WA	MT	ID	R 1	R 4	R 6
Mammals							
spotted bat	<i>Euderma maculatum</i>			X		X	
Townsend’s (Pacific, western) big-eared bat	<i>Corynorhinus (Plecotus) townsendii townsendii</i>	X	X	X	X	X	X
western small-footed myotis	<i>Myotis ciliolabrum</i>		X	X			
long-eared myotis	<i>Myotis evotis</i>		X	X			
fringed myotis	<i>Myotis thysanodes</i>			X			
long-legged myotis	<i>Myotis volans</i>		X	X			
Yuma myotis	<i>Myotis yumaensis</i>		X	X			
dark kangaroo mouse	<i>Microdipodops megacephalus</i>			X			
Preble’s shrew	<i>Sorex preblei</i>						X
rock squirrel	<i>Spermophilus variegatus</i>			X			
northern bog lemming	<i>Synaptomys borealis</i>		X		X		
pygmy rabbit	<i>Brachylagus idahoensis</i>	X		X	X		X
wolverine	<i>Gulo gulo</i>	X	X	X	X	X	
California wolverine	<i>Gulo gulo luteus</i>						X
fisher	<i>Martes pennanti</i>	X	X	X	X	X	
kit fox	<i>Vulpes velox macrotis</i>	X		X			
California bighorn sheep	<i>Ovis canadensis californiana</i>			X			X
western gray squirrel	<i>Sciurus griseus</i>	X					
Washington ground squirrel	<i>Spermophilus washingtoni</i>	X					
Birds							
common loon	<i>Gavia immer</i>		X		X	X	X
red-necked grebe	<i>Podiceps grisegena</i>	X					
trumpeter swan	<i>Cygnus buccinator</i>			X	X	X	
black tern	<i>Chlidonias niger</i>		X				
harlequin duck	<i>Histrionicus histrionicus</i>		X	X	X	X	
yellow rail	<i>Coturnicops noveboracensis</i>	X					
greater sandhill crane	<i>Grus canadensis tabida</i>	X					X
long-billed curlew	<i>Numenius americanus</i>		X	X			X
upland sandpiper	<i>Bartramia longicauda</i>	X		X			X
snowy plover	<i>Charadrius alexandrinus</i>	X					
flamulated owl	<i>Otus flammeolus</i>	X	X	X	X	X	
great gray owl	<i>Strix nebulosa</i>					X	
boreal owl	<i>Aegolius funereus</i>		X	X		X	
burrowing/western burrowing owl	<i>Speotyto (Athene) cunicularia hypugea</i>	X		X	X		
northern goshawk	<i>Accipiter gentilis</i>	X	X	X	X	X	
prairie falcon	<i>Falco mexicanus</i>			X			
ferruginous hawk	<i>Buteo regalia</i>	X		X		X	
Swainson’s hawk	<i>Buteo swainsoni</i>		X				
northern harrier	<i>Circus cyaneus</i>			X			
white-headed woodpecker	<i>Picoides albolarvatus</i>	X		X	X	X	
three-toed woodpecker	<i>Picoides tridactylus</i>	X	X	X		X	
black-backed woodpecker	<i>Picoides arcticus</i>	X	X	X	X		
hairy woodpecker	<i>Picoides villosus</i>		X				
Lewis’ woodpecker	<i>Melanerpes lewis</i>	X		X			
pileated woodpecker	<i>Dryocopus pileatus</i>		X				
red-naped woodpecker	<i>Sphyrapicus nuchalis</i>			X			
Williamson’s sapsucker	<i>Sphyrapicus throideus</i>			X			
mountain quail	<i>Oerortyx pictus</i>			X	X	X	
Columbian sharp-tailed grouse	<i>Tympanuchus phasianellus columbianus</i>	X	X	X	X	X	
western sage grouse	<i>Centrocercus urophasianus</i>	X		X	X		X
tricolored blackbird	<i>Agelaius tricolor</i>						X

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Common Name	Scientific Name	BLM			Forest Service Region		
		OR/WA	MT	ID	R 1	R 4	R 6
(Birds continued)							
yellow-headed blackbird	<i>Xanthocephalus xanthocephalus</i>			X			
black rosy finch	<i>Leucosticte arctoa atrata</i>						X
yellow-billed cuckoo	<i>Coccyzus americanus</i>	X		X			
black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>			X			
pygmy nuthatch	<i>Sitta pygmaea</i>	X		X			
loggerhead shrike	<i>Lanus ludovicianus</i>			X			
Vaux’s swift	<i>Chaetura vauxi</i>			X			
black swift	<i>Cypseloides niger</i>			X			
olive-sided flycatcher	<i>Contopus borealis</i>			X			
dusky flycatcher	<i>Empidonax oberholseri</i>			X			
northern pygmy owl	<i>Glaucidium gnoms</i>	X					
arctic peregrine falcon	<i>Falco peregrinus tundrius</i>	X					
American white pelican	<i>Pelecanus erythrorhynchos</i>	X					
Cordilleran flycatcher	<i>Empidonax occidentalis</i>			X			
Hammond’s flycatcher	<i>Empidonax hammondii</i>			X			
gray flycatcher	<i>Empidonax wrightii</i>			X			
willow flycatcher	<i>Empidonax traillii</i>			X			
black-throated gray wrbler	<i>Dendroica nigrescens</i>			X			
Townsend’s warbler	<i>Dendroica townsendii</i>			X			
yellow warbler	<i>Dendroica petechia</i>			X			
MacGillivray’s warbler	<i>Oporonis tolmiei</i>			X			
Virginia’s warbler	<i>Vermivora virginiae</i>			X			
Wilson’s warbler	<i>Wilsonia pusilla</i>			X			
purple martin	<i>Progne subis</i>	X					
solitary vireo	<i>Vireo solitarius</i>			X			
bobolink	<i>Dolichonyx oryzivorus</i>			X			
Scott’s oriole	<i>Icterus pusilla</i>			X			
veery	<i>Catharus fuscescens</i>			X			
Swainson’s thrush	<i>Catharus ustulatus</i>			X			
Calliope hummingbird	<i>Stellula caliope</i>			X			
rufous hummingbird	<i>Selaphorus rufus</i>			X			
grasshopper sparrow	<i>Ammodramus savannarum</i>			X			
Brewer’s sparrow	<i>Spizella breweri</i>			X			
sage sparrow	<i>Amphispiza belli</i>	X		X			
green-tailed towhee	<i>ipilo chlorurus</i>			X			
Reptiles and Amphibians							
northern red-legged frog	<i>Rana auroa auroa</i>			X			X
northern leopard frog	<i>Rana pipiens</i>	X			X		
tailed frog	<i>Ascaphus truei</i>		X				
wood frog	<i>Rana sylvatica</i>		X				
western toad	<i>Bufo boreas</i>			X	X		
Coeur d’Alene salamander	<i>Plethodon vandykei idahoensis</i>		X	X	X	X	
Cope’s giant salamander	<i>Dicamptodon copei</i>						X
Larch Mountain salamander	<i>Plethodon larseii</i>	X					X
painted turtle	<i>Chrysemys picta</i>	X					X
western pond turtle	<i>Clemmys marmorata</i>	X					
	<i>Clemmys marmorata marmorata</i>						
Mojave black-collared lizard	<i>Crotahytus bicinctores</i>			X			
western ground snake	<i>Sonora seminannulata</i>			X			
ringneck snake	<i>Diadophis punctatus</i>			X			
longnose snake	<i>Rhinocheilus lecontei</i>			X			

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Common Name	Scientific Name	BLM			Forest Service Region		
		OR/WA	MT	ID	R 1	R 4	R 6
Fish							
Malheur mottled sculpin	<i>Cottus bairdii</i> spp.	X					X
Shoshone sculpin	<i>Cottus greenei</i>			X			
Wood River sculpin	<i>Cottus leiopomus</i>			X		X	
torrent sculpin	<i>Cottus rhotheus</i>				X		
shorthead sculpin	<i>Cottus coniusus</i>			X			
pit sculpin	<i>Cottus pitensis</i>						X
slender sculpin	<i>Cottus tenuis</i>						X
marginated sculpin	<i>Cottus marginatus</i>	X					
westslope cutthroat trout	<i>Oncorhynchus clarki lewisi</i>	X	X	X	X	X	
Yellowstone cutthroat trout	<i>Oncorhynchus clarki bouvieri</i>			X			
fine spotted cutthroat trout	<i>Oncorhynchus clarki</i> spp.					X	
interior redband trout	<i>Oncorhynchus mykiss</i> spp.			X	X		X
Great Basin redband trout	<i>Oncorhynchus mykiss</i> spp.	X					
spring/summer chinook salmon	<i>Oncorhynchus tshawyscha</i>			X	X		X
coho salmon	<i>Oncorhynchus kisutch</i> spp.						X
Oregon tui chub	<i>Gila bicolor oregonensis</i>						X
Sheldon tui chub	<i>Gila bicolor eury soma</i>	X					
summer basin tui chub	<i>Gila bicolor</i> spp.	X					
leatherside chub	<i>Gila copei</i>			X			
white sturgeon	<i>Acipenser transmontanus</i>			X			
Goose Lake sucker	<i>Catostomus occidentalis lacusanerinus</i>	X					X
Klamath large-scale sucker	<i>Catostomus synderi</i>						X
Miller Lake lamprey	<i>Lampetra minima</i>	X					
Pacific lamprey	<i>Lampetra tridentata</i>			X			
Goose Lake lamprey	<i>Lampetra tridentata</i> spp.	X					
ling (burbot)	<i>Lota lota</i>			X	X		
pygmy whitefish	<i>Prosopium coultrisi</i>	X					
Vascular Plants/ Bryophytes/Lichens/Fungi (scientific names only)							
	<i>Abronia umbellata</i> spp. <i>breviflora</i>						X
	<i>Achnatherum herndersonii</i>	X					X
	<i>Achnatherum wallowensis</i>	X					X
	<i>Adoxa moschatellina</i>				X		
	<i>Agastache cusickii</i>				X		
	<i>Ageratina occidentalis</i> *				X		
	<i>Agoseris elata</i>						X
	<i>Agoseris lackschewitzii</i>			X		X	
	<i>Agrostis hendersonii</i>	X					
	<i>Agrostis howellii</i>	X					X
	<i>Agrostis mertensi</i> *						X
	<i>Allium aaseae</i>			X			
	<i>Allium acuminatum</i>				X		
	<i>Allium anceps</i>			X			
	<i>Allium campanulatum</i>						X
	<i>Allium dictuon</i>	X					X
	<i>Allium geyeri</i> var. <i>geyeri</i>	X					X
	<i>Allium madidum</i>					X	
	<i>Allium parvum</i>				X		
	<i>Allium peninsulare</i>						X
	<i>Allium tolmiei</i> var. <i>persimile</i>			X		X	
	<i>Allium validum</i>			X			
	<i>Allotropa virgata</i>			X	X	X	
	<i>Amerorchis rotundifolia</i>				X		

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Ancistracarpus filagineus</i>			X			
<i>Andromeda polifolia</i>				X		
<i>Androsace elongata</i> spp. <i>acuta</i>						X
<i>Anemone oregana</i> var. <i>felix</i>						X
<i>Antennaria arcuata</i>			X			
<i>Antennaria corymbosa</i>						X
<i>Antennaria densifolia</i>				X		
<i>Antennaria parvifolia</i>						X
<i>Aquilegia brevistyla</i>				X		
<i>Arabis fecunda</i>				X		
<i>Arabis hastatula</i>	X					X
<i>Arabis koehleri</i> var. <i>koehleri</i>	X					
<i>Arabis modesta</i>						X
<i>Arabis sparsiflora</i> var. <i>atrorubens</i>						X
<i>Arabis suffrutescens</i> var. <i>horizontalis</i>	X					X
<i>Arctostaphylos hispidula</i>						X
<i>Arenaria franklinii</i> var. <i>thompsonii</i>	X					
<i>Arnica viscosa</i>						X
<i>Artemisia campestris</i> spp.	X					X
<i>borealis</i> var. <i>wormskioeldii</i>						
<i>Artemisia ludoviciana</i> spp. <i>estesii</i>	X					X
<i>Asarum caudatum</i> var. <i>viridiflorum</i> *	X					
<i>Aspicilia fruticosa</i>			X			
<i>Asplenium septentrionale</i>						X
<i>Asplenium trichomanes</i>				X		
<i>Asplenium trichomanes-ramosum</i> *			X			
<i>Aster borealis</i>	X			X		
<i>Aster jessicae</i>	X		X			
<i>Aster meritus</i> *						X
<i>Astragalus amblytropis</i>			X			
<i>Astragalus amnis-amissi</i>					X	
<i>Astragalus anserinus</i>			X		X	
<i>Astragalus aquilonius</i>			X		X	
<i>Astragalus arrectus</i>						X
<i>Astragalus arthurii</i>						X
<i>Astragalus atratus</i> var. <i>inseptus</i>			X			
<i>Astragalus australis</i> var. <i>olympicus</i>						X
<i>Astragalus barrii</i>				X		
<i>Astragalus columbianus</i>	X					
<i>Astragalus cottonii</i> *	X					
<i>Astragalus cusickii</i> var. <i>cusickii</i>						X
<i>Astragalus cusickii</i> var. <i>sterilis</i> *			X			
<i>Astragalus diaphanus</i> var. <i>diurnus</i>						X
<i>Astragalus diversifolius</i> var. <i>diversifolius</i>			X		X	
<i>Astragalus gilviflorus</i>			X			
<i>Astragalus jejunus</i> var. <i>jejunus</i>			X		X	
<i>Astragalus kentrophyta</i> var. <i>douglasii</i>	X					
<i>Astragalus lackschewitzii</i>				X		
<i>Astragalus leptaleus</i>			X			
<i>Astragalus microcystis</i>				X		X
<i>Astragalus mulfordiae</i>			X			
<i>Astragalus newberryi</i> var. <i>castoreus</i>			X			
<i>Astragalus oniciformis</i>			X			
<i>Astragalus paysonii</i>			X	X	X	
<i>Astragalus peckii</i>						X

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Astragalus pulsiferae</i> var. <i>suksdorfii</i>	X					
<i>Astragalus purshii</i> var. <i>ophiogenes</i>			X			
<i>Astragalus salmonis</i>			X			
<i>Astragalus scaphoides</i>				X		
<i>Astragalus sinuatus</i>	X					
<i>Astragalus tegetarioides</i>	X					X
<i>Astragalus tetrapterus</i>			X			
<i>Astragalus tyghensis</i>						X
<i>Astragalus vexilliflexus</i> var. <i>nubilus</i>					X	
<i>Astragalus yoder-williamsii</i>			X			
<i>Athysanus pusillus</i>				X		
<i>Balsamorhiza macrophylla</i>				X		
<i>Bensoniella oregana</i>	X					X
<i>Betula pumila</i> var. <i>glandulifera</i>				X		
<i>Bidens beckii</i>				X		
<i>Blechnum spicant</i>			X	X		
<i>Bolandra oregana</i>	X					X
<i>Botrychium ascendens</i>	X		X	X		X
<i>Botrychium campestre</i>						X
<i>Botrychium crenulatum</i>	X		X	X		X
<i>Botrychium fenestratum</i>						X
<i>Botrychium hesperium</i>				X		X
<i>Botrychium lanceolatum</i> var. <i>lanceolatum</i>			X	X		X
<i>Botrychium lineare</i>	X					X
<i>Botrychium lunaria</i>						X
<i>Botrychium manganense</i>			X	X		X
<i>Botrychium montanum</i>				X		X
<i>Botrychium paradoxum</i>	X			X		X
<i>Botrychium pedunculosum</i>	X			X		X
<i>Botrychium pinnatum</i>			X	X		X
<i>Botrychium pumicola</i>						X
<i>Botrychium simplex</i>			X	X		X
<i>Bouteloua gracilis</i>			X			
<i>Brasenia schreberi</i>				X		
<i>Bryoria subdivergens</i>				X		
<i>Bryum calobryoides</i>			X		X	
<i>Buxbaumia aphylla</i>			X	X		
<i>Buxbaumia piperi</i>			X			
<i>Buxbaumia viridis</i>				X		
<i>Calamagrostis breweri</i>						X
<i>Calamagrostis tweedyi</i>			X		X	
<i>Callitriche fassettii</i>	X					
<i>Calochortus greenei</i>	X					
<i>Calochortus howellii</i>						X
<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i>						X
<i>Calochortus longebarbatus</i> var. <i>peckii</i>	X					X
<i>Calochortus macrocarpus</i> var. <i>maculosus</i>	X		X			X
<i>Calochortus monophyllus</i>						X
<i>Calochortus nitidus</i>	X		X	X		X
<i>Calochortus nudus</i>						X
<i>Calochortus umpquaensis</i>						X
<i>Camassia cusickii</i>			X		X	
<i>Camassia howellii</i>	X					X
<i>Camissonia graciliflora</i>						X
<i>Camissonia andina</i>		X				

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Camissonia palmeri</i>			X			
<i>Camissonia pterosperma</i>			X			
<i>Camissonia pygmaea</i>	X					X
<i>Campanula lasiocarpa</i>						X
<i>Cardamine constancei</i>			X	X		
<i>Cardamine nuttallii</i> var. <i>gemmata</i>	X					
<i>Cardamine pattersonii</i>	X					X
<i>Carex amplifolia</i>				X		
<i>Carex anthoxanthea</i>						X
<i>Carex atosquama</i>						X
<i>Carex backii</i>						X
<i>Carex buxbaumii</i>			X	X		
<i>Carex capillaris</i>						X
<i>Carex chordorrhiza</i>			X	X		X
<i>Carex circinata</i>						X
<i>Carex comosa</i>			X	X		X
<i>Carex crawfordii</i>						X
<i>Carex densa</i>						X
<i>Carex duriuscula</i>						X
<i>Carex flava</i>			X	X		X
<i>Carex foenea</i>						X
<i>Carex gigas</i>						X
<i>Carex gynocrates</i>						X
<i>Carex hendersonii</i>			X	X		
<i>Carex heteroneura</i> var. <i>epapillosa</i>						X
<i>Carex hystricina</i>						X
<i>Carex idaho*</i>			X	X	X	
<i>Carex incurviformis</i> var. <i>incurviformis</i>					X	
<i>Carex interior</i>						X
<i>Carex leptalea</i>					X	
<i>Carex livida</i>			X	X		X
<i>Carex macrochaeta</i>						X
<i>Carex magellanica</i> spp. <i>magellanica</i>				X		
<i>Carex nardina</i>						X
<i>Carex nervina</i>						X
<i>Carex nova</i>						X
<i>Carex novegica</i>						X
<i>Carex obtusata</i>						X
<i>Carex parryana</i>						X
<i>Carex pauciflora</i>						X
<i>Carex pluriflora</i>						X
<i>Carex prairea</i>				X		
<i>Carex proposita</i>						X
<i>Carex rostrata</i>				X		X
<i>Carex saxatilis</i> var. <i>major</i>						X
<i>Carex scirpoidea</i>						X
<i>Carex serratodens*</i>						X
<i>Carex straminiformis</i>			X			
<i>Carex stylosa</i>						X
<i>Carex sychnocephala</i>						X
<i>Carex tenuifolia</i>						X
<i>Carex vaginata</i>				X		
<i>Carex vallicola</i>						X
<i>Carex xerantica</i>				X		X

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Cassiope lycopodioides</i>						X
<i>Castilleja chambersii</i>	X					
<i>Castilleja chlorotica</i>						X
<i>Castilleja chlorotica</i>	X					X
<i>Castilleja christii</i>					X	
<i>Castilleja covilleana</i>				X		
<i>Castilleja cryptantha</i>	X					X
<i>Castilleja fraterna</i>	X					X
<i>Castilleja miniata</i> spp. <i>miniata</i> *				X		
<i>Castilleja pilosa</i> var. <i>steenensis</i>	X					
<i>Castilleja rubida</i>	X					X
<i>Castilleja schizotricha</i>						X
<i>Castilleja thompsonii</i>						X
<i>Caulanthus major</i> var. <i>nevadensis</i>	X					
<i>Ceanothus prostratus</i>			X			
<i>Cetraria subalpina</i>				X		
<i>Chaenactis cusickii</i>	X		X			
<i>Chaenactis stevioides</i>			X			
<i>Chaenactis thompsonii</i>						X
<i>Cheilanthes intertexta</i>						X
<i>Chiloscyphus gemmiparus</i>	X					
<i>Chlorogalum angustifolium</i>						X
<i>Chrysolepis chrysophylla</i>						X
<i>Chrysosplenium tetrandrum</i>						X
<i>Cicuta bulbifera</i>			X	X		X
<i>Cimicifuga elata</i>	X					X
<i>Cirsium longistylum</i>				X		
<i>Cladonia andreggii</i>			X	X		
<i>Cladonia luteoalba</i>			X			
<i>Cladonia transcendens</i>			X			
<i>Cladonia uncialis</i>			X			
<i>Clarkia heterandra</i>						X
<i>Clarkia rhomboidea</i>				X		
<i>Claytonia arenicola</i>				X		
<i>Claytonia lanceolata</i> var. <i>pacifica</i>						X
<i>Cleomella plocasperma</i>			X			
<i>Clintonia andrewsiana</i>						X
<i>Collema curtisporum</i>			X	X		
<i>Collema furfuraceum</i>			X			
<i>Collinsia sparsiflora</i> var. <i>bruceae</i>						X
<i>Collomia debilis</i> var. <i>camporum</i>					X	
<i>Collomia mazama</i>	X					X
<i>Collomia renacta</i>	X					
<i>Coptis aspleniifolia</i>						X
<i>Coptis trifolia</i>						X
<i>Cordylanthus maritimus</i> spp. <i>palustris</i>						X
<i>Cornus nuttallii</i>			X	X		
<i>Corydalis aquae-gelidae</i>	X					X
<i>Corydalis caseana</i> spp. <i>hastata</i>			X		X	
<i>Corydalis sempervirens</i>				X		
<i>Crepis bakeri</i> spp. <i>idahoensis</i>			X			
<i>Cryptantha caespitosa</i>			X			
<i>Cryptantha milobakeri</i>						X
<i>Cryptantha rosetellata</i>						X
<i>Cryptogramma stelleri</i>						X

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Cupressus bakeri</i>						X
<i>Cuscuta denticulata</i>			X			
<i>Cusickiella douglasii</i>	X					
<i>Cymopterus acaulis</i> var. <i>greeleyorum</i>			X			
<i>Cymopterus davisii</i>					X	
<i>Cymopterus douglasii</i>					X	
<i>Cymopterus ibapensis</i>			X			
<i>Cyperus bipartitus</i>						X
<i>Cypripedium fasciculatum</i>	X		X	X		X
<i>Cypripedium parviflorum</i> *	X		X	X		X
<i>Cypripedium passerinum</i>				X		
<i>Dasynotus daubenmirei</i>				X		
<i>Delphinium nudicaule</i>						X
<i>Delphinium nuttallii</i> spp. <i>nuttallii</i> *	X					
<i>Delphinium nuttallii</i> spp. <i>ochroleucum</i> *	X					
<i>Delphinium viridescens</i>	X					X
<i>Dermatocarpon lorenzianum</i>			X			
<i>Dicentra pauciflora</i>						X
<i>Dimeresia howellii</i>			X			
<i>Dodecatheon austrofrigidum</i>	X					X
<i>Douglasia idahoensis</i>				X	X	
<i>Downingia bacigalupii</i>			X			
<i>Draba aurea</i>						X
<i>Draba breweri</i> var. <i>cana</i> *						X
<i>Draba globosa</i> *					X	
<i>Draba howellii</i>	X					X
<i>Draba incerta</i>			X			
<i>Draba longipes</i>						X
<i>Draba trichocarpa</i>					X	
<i>Drosera anglica</i>				X		
<i>Drosera intermedia</i>				X		
<i>Drosera linearis</i>				X		
<i>Dryas drummondii</i>						X
<i>Dryopteris cristata</i>				X		X
<i>Eatonella nivea</i>	X		X			
<i>Eleocharis atropurpurea</i>						X
<i>Eleocharis rostellata</i>				X		
<i>Enemion stipitatum</i> *						X
<i>Epilobium oreganum</i>	X					X
<i>Epilobium palustre</i>				X		
<i>Epilobium siskiyouense</i>	X					X
<i>Epipactis gigantea</i>			X	X		
<i>Ericameria arborescens</i>						X
<i>Ericameria discoidea</i> *				X		
<i>Ericameria nauseosus</i> spp. <i>nauseosus</i> var. <i>nana</i> *			X			
<i>Ericameria parryi</i> spp. <i>montana</i> *			X	X	X	
<i>Erigeron asperugineus</i>					X	
<i>Erigeron cervinus</i>						X
<i>Erigeron disparipilus</i>						X
<i>Erigeron elata</i> *						X
<i>Erigeron engelmannii</i> var. <i>davisii</i>						X
<i>Erigeron evermannii</i>				X		
<i>Erigeron howellii</i>	X					X
<i>Erigeron ochroleucus</i> var. <i>ochroleucus</i>				X		
<i>Erigeron oreganus</i>	X					X

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Erigeron peregrinus</i> spp. <i>peregrinus</i> var. <i>thompsonii</i>						X
<i>Erigeron petrophilus</i>						X
<i>Erigeron salishii</i>						X
<i>Eriogonum capistratum</i> var. <i>welshii</i>		X		X		
<i>Eriogonum codium</i>	X					
<i>Eriogonum cusickii</i>	X					
<i>Eriogonum desertorum</i>			X			
<i>Eriogonum lobbii</i>						X
<i>Eriogonum meledonum</i>					X	
<i>Eriogonum ochrocephalum</i> var. <i>calcareum</i>			X			
<i>Eriogonum prociduum</i>	X					X
<i>Eriogonum salicornioides</i>	X					
<i>Eriogonum shockleyi</i> var. <i>packardiae</i>			X			
<i>Eriogonum shockleyi</i> var. <i>shockleyi</i>			X			
<i>Eriogonum umbellatum</i> var. <i>glaberrimum</i>	X					
<i>Eriophorum alpinum</i> *				X		
<i>Eriophorum chamissonis</i>						X
<i>Eriophorum gracile</i>				X		
<i>Eriophorum viridicarinatum</i>				X		X
<i>Eritrichium nanum</i> var. <i>elongatum</i>						X
<i>Eryngium petiolatum</i>	X					X
<i>Erythronium elegans</i>						X
<i>Erythronium howellii</i>	X					X
<i>Eschscholzia caespitosa</i>						X
<i>Escobaria vivipara</i> *			X			
<i>Eucephalus gormanii</i> *	X					X
<i>Eucephalus vialis</i> *						X
<i>Euonymus occidentalis</i>						X
<i>Festuca elmeri</i>						X
<i>Filipendula occidentalis</i>	X					X
<i>Frasera fastigiata</i> *	X					X
<i>Fritillaria camschatcensis</i>						X
<i>Fritillaria glauca</i>						X
<i>Fritillaria purdyi</i>						X
<i>Galium kamtschaticum</i>						X
<i>Galium serpenticum</i> var. <i>warnerense</i>	X					X
<i>Gaultheria hispidula</i>				X		X
<i>Gentiana douglasiana</i>						X
<i>Gentiana glauca</i>						X
<i>Gentiana newberryi</i> var. <i>newberryi</i>						X
<i>Gentiana plurisetosa</i>						X
<i>Gentiana setigera</i>	X					X
<i>Gentianella tenella</i>						X
<i>Gentianopsis simplex</i>				X		
<i>Geum rivale</i>						X
<i>Geum rossii</i> var. <i>depressum</i>						X
<i>Geum triflorum</i> var. <i>campanulatum</i>						X
<i>Gilia millefoliata</i>	X					
<i>Glossopetalon spinescens</i> *				X		
<i>Glyptopleura marginata</i>			X			
<i>Goodyera repens</i>				X		
<i>Grimmie brittoniae</i>			X	X		
<i>Grindelia howellii</i>			X	X		
<i>Hackelia cronquestii</i>			X			

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Hackelia diffusa</i> var. <i>diffusa</i>	X					
<i>Hackelia hispida</i> var. <i>disjuncta</i>						X
<i>Hackelia ophiobia</i>			X			
<i>Hackelia taylorii</i>						X
<i>Hackelia venusta</i>	X					X
<i>Halimolobos perplexa</i> var. <i>lemhiensis</i>				X		
<i>Halimolobos perplexa</i> var. <i>perplexa</i>			X	X	X	
<i>Hastingsia atropurpurea</i>	X					X
<i>Hastingsia bracteosa</i>						X
<i>Hazardia whitneyi</i> var. <i>discoidea</i>						X
<i>Helodium blandowii</i>			X			
<i>Heteranthera dubia</i>				X		
<i>Heterocodon rariflorum</i>				X		
<i>Heuchera grossulariifolia</i> var. <i>tenuifolia</i>						X
<i>Hookeria lucens</i>				X		
<i>Horkelia congesta</i> spp. <i>congesta</i>	X					
<i>Horkelia hendersonii</i>	X					X
<i>Horkelia tridentata</i> spp. <i>tridentata</i>						X
<i>Hydrocotyle verticillata</i>						X
<i>Hypericum majus</i>				X		X
<i>Hypogymnia apinnata</i>			X			
<i>Idahoa scapigera</i>				X		
<i>Iliamna bakeri</i>	X					X
<i>Iliamna latibracteata</i>						X
<i>Iliamna longisepala</i>						X
<i>Ipomopsis polycladon</i>			X			
<i>Iris versicolor</i>				X		
<i>Ivesia phypara</i> var. <i>shellyi</i>	X					
<i>Ivesia shockleyi</i>						X
<i>Juncus hallii</i>			X	X		
<i>Juncus kelloggii</i>	X					
<i>Kalmia microphylla</i> *				X		
<i>Kalmiopsis leachiana</i> * (Douglas Co. population)	X					X
<i>Keckiella lemmonii</i>						X
<i>Kobresia myosuroides</i>						X
<i>Kobresia simpliciuscula</i>						X
<i>Kumlienia cooleyae</i> *						X
<i>Lasthenia macrantha</i> spp. <i>prisca</i>	X					
<i>Lathyrus bijugatus</i>				X		
<i>Lathyrus holochlorus</i>	X					
<i>Lathyrus torreyi</i>	X					
<i>Lepidium davisii</i>	X		X			
<i>Lepidium papilliferum</i>			X		X	
<i>Leptodactylon pungens</i> spp. <i>hazeliae</i>	X		X		X	X
<i>Lesquerella carinata</i> var. <i>languida</i>		X		X		
<i>Lesquerella humilis</i>					X	
<i>Lesquerella paysonii</i>				X	X	
<i>Lesquerella pulchella</i>				X		
<i>Lesquerella tuplashensis</i>	X					
<i>Lewisia columbiana</i> var. <i>columbiana</i>						X
<i>Lewisia cotyledon</i> var. <i>cotyledon</i> *	X					X
<i>Lewisia leeana</i>						X
<i>Lilium kelloggii</i>						X
<i>Limnanthes floccosa</i> spp. <i>bellingeriana</i>	X					X
<i>Limnanthes gracilis</i> var. <i>gracilis</i>	X					X

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Limonium californicum</i>						X
<i>Limosella acaulis</i>			X			
<i>Limonium californicum</i>						X
<i>Linanthus bolanderi</i>						X
<i>Liparis loeselii</i>	X			X		X
<i>Listera borealis</i>						X
<i>Lobaria hallii</i>			X			
<i>Lobaria linita</i>			X			
<i>Lobaria scrobiculata</i>			X			
<i>Lobelia dortmanna</i>	X					X
<i>Lobelia kalmii</i>	X					X
<i>Loefferlingia squarrosa</i> var. <i>squarrosa</i>	X					
<i>Loiseleuria procumbens</i>						X
<i>Lomatium cookii</i>						X
<i>Lomatium cusickii</i>						X
<i>Lomatium engelmannii</i>						X
<i>Lomatium erythrocarpum</i>						X
<i>Lomatium geyeri</i>				X		
<i>Lomatium greenmanii</i>						X
<i>Lomatium laevigatum</i>						X
<i>Lomatium ochocense</i>	X					X
<i>Lomatium ravenii</i>						X
<i>Lomatium rollinsii</i>	X					
<i>Lomatium salmoniflorum</i>			X	X		X
<i>Lomatium suksdorfii</i>	X					X
<i>Lomatium tracyi</i>						X
<i>Lomatium tuberosum</i>	X					
<i>Lomatium watsonii</i>						X
<i>Lomatogonium rotatum</i>			X	X		
<i>Lotus stipularis</i>						X
<i>Luina serpentina</i>						X
<i>Lupinus aridus</i> spp. <i>ashlandensis</i>	X					X
<i>Lupinus sabinianus</i>	X					
<i>Lupinus sabinii</i>						X
<i>Lupinus tracyi</i>						X
<i>Lupinus uncialis</i>			X			
<i>Luzula arcuata</i>						X
<i>Lycopodiella inundata</i>				X		X
<i>Lycopodium complanatum</i>						X
<i>Lycopodium dendroideum</i>				X		X
<i>Lycopodium sitchense</i> *				X		
<i>Machaerocarpus californicus</i>			X			X
<i>Meconella oregana</i>	X					X
<i>Meesia longiseta</i>			X			
<i>Meesia triquetra</i>				X		
<i>Mentzelia mollis</i>			X			
<i>Mertensia bella</i>				X		
<i>Microseris borealis</i>						X
<i>Microseris douglasii</i> spp. <i>douglasii</i>						X
<i>Microseris howellii</i>						X
<i>Microseris laciniata</i> spp. <i>detlingii</i>	X					X
<i>Mimulus alsinoides</i>				X		
<i>Mimulus bolanderi</i>						X
<i>Mimulus clivicola</i>			X			X
<i>Mimulus evanescens</i>	X					X

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Mimulus hymenophyllus</i>	X		X			X
<i>Mimulus jungermannioides</i>	X					X
<i>Mimulus primuloides</i>				X		
<i>Mimulus pulsiferae</i>						X
<i>Mimulus suksdorfii</i>						X
<i>Mimulus tricolor</i>						X
<i>Mimulus washingtonensis*</i>			X	X		
<i>Monardella purpurea</i>						X
<i>Montia diffusa</i>						X
<i>Montia howellii</i>	X					X
<i>Muhlenbergia glomerata</i>						X
<i>Muhlenbergia racemosa</i>				X		
<i>Myosurus sessilis</i>	X					
<i>Nasella viridula*</i>			X			
<i>Navarretia tagetina</i>	X					X
<i>Nemacladus capillaris</i>						X
<i>Nemacladus rigidus</i>			X			
<i>Nicotiana attenuata</i>						X
<i>Oenothera psammophila</i>			X			
<i>Ophioglossum pusillum</i>	X			X		X
<i>Orogenia fusiformis</i>				X		
<i>Orthocarpus bracteosus</i>	X					
<i>Oxytropis borealis</i> var. <i>viscida</i>						X
<i>Oxytropis campestris</i> var. <i>columbiana</i>	X			X		
<i>Oxytropis campestris</i> var. <i>wanapum</i>	X					
<i>Oxytropis monticola*</i>						X
<i>Oxytropis nana</i> var. <i>salmonensis*</i>					X	
<i>Oxytropis podocarpa</i>				X		
<i>Parnassia fimbriata</i> var. <i>hoodiana</i>						X
<i>Parnassia kotzebuei</i>						X
<i>Parnassia palustris</i> var. <i>tenuis*</i>						X
<i>Pedicularis howellii</i>						X
<i>Pedicularis rainierensis</i>						X
<i>Pediocactus simpsonii</i> var. <i>robustior</i>			X			
<i>Pellaea andromedaefolia</i>						X
<i>Pellaea brachyptera</i>						X
<i>Pellaea breweri</i>						X
<i>Pellaea bridgesii</i>						X
<i>Pellaea mucronata</i> spp. <i>mucronata</i>						X
<i>Penstemon barrettiae</i>	X					X
<i>Penstemon compactus</i>					X	
<i>Penstemon glaucinus</i>	X					X
<i>Penstemon idahoensis</i>			X		X	
<i>Penstemon janishiae</i>			X			
<i>Penstemon lemhiensis</i>			X	X	X	
<i>Penstemon payettensis</i>				X		
<i>Penstemon peckii</i>	X					X
<i>Pentagramma triangularis</i> spp. <i>triangularis</i>				X		
<i>Peraphyllum ramosissimum</i>			X			
<i>Perideridia erythrorhiza</i>	X					X
<i>Petasites frigidus</i> var. <i>nivalis</i>				X		
<i>Petasites frigidus</i> var. <i>palmatus</i>				X		
<i>Petasites sagittatus</i>				X		
<i>Peteria thompsoniae</i>			X			

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Petrophytum cinerascens</i>	X					X
<i>Phacelia inconspicua</i>			X			
<i>Phacelia lenta</i>	X					
<i>Phacelia lutea</i> var. <i>calva</i>			X			
<i>Phacelia lutea</i> var. <i>mackenziorum</i>	X					
<i>Phacelia minutissima</i>	X		X		X	X
<i>Phegopteris connectilis</i>				X		
<i>Phlox hendersonii</i>						X
<i>Phlox missoulensis</i> *				X		
<i>Phlox multiflora</i>						X
<i>Physaria didymocarpa</i> var. <i>didymocarpa</i>						X
<i>Physaria didymocarpa</i> var. <i>lyrata</i>			X		X	
<i>Physcia semipinnata</i>			X			
<i>Pilophorus acicularis</i>			X			
<i>Pilularia americana</i>						X
<i>Pityopus californica</i>						X
<i>Plagiobothrys figuratus</i> spp. <i>corallicarpus</i>	X					X
<i>Plagiobothrys glytocalpus</i>						X
<i>Plantago macrocarpa</i>						X
<i>Platanthera chorisiana</i>	X					X
<i>Platanthera obtusata</i>						X
<i>Platanthera sparsiflora</i>						X
<i>Pleuropogon oregonus</i>						X
<i>Poa abbreviata</i> spp. <i>marshii</i>					X	
<i>Poa laxiflora</i>	X					X
<i>Poa nervosa</i> var. <i>nervosa</i>						X
<i>Poa unilateralis</i>	X					
<i>Pogogyne floribunda</i>	X					
<i>Polemonium carneum</i>	X					X
<i>Polemonium pectinatum</i>	X					
<i>Polemonium viscosum</i>						X
<i>Polycstenium fremontii</i> var. <i>confertum</i>	X					
<i>Polygonum douglasii</i> spp. <i>austinae</i>				X		
<i>Polypodium glycyrrhiza</i>				X		
<i>Polystichum braunii</i>				X		
<i>Polystichum californicum</i>						X
<i>Potamogeton obtusifolius</i>				X		
<i>Potentilla diversifolia</i> var. <i>perdissecta</i>						X
<i>Potentilla drummondii</i> spp. <i>breweri</i> *						X
<i>Potentilla nivea</i>						X
<i>Potentilla nivea</i> var. <i>pentaphylla</i> *				X		X
<i>Potentilla villosa</i> var. <i>parviflora</i>						X
<i>Primula alcalina</i>			X		X	
<i>Primula cusickiana</i>			X			X
<i>Psathyrotes annua</i>			X			
<i>Pseudocyphellaria anthraxis</i>			X			
<i>Psilocarphus brevissimus</i>				X		
<i>Psilocarphus tenellus</i>			X			
<i>Pulsatilla patens</i> spp. <i>multifida</i> *						X
<i>Pyrrocoma hirta</i> var. <i>sonchifolia</i>			X	X		
<i>Pyrrocoma insectieruris</i> *			X		X	
<i>Pyrrocoma liatrifloris</i>	X		X			X
<i>Pyrrocoma radiata</i> *			X		X	
<i>Ranunculus austro-oreganus</i>	X					
<i>Ranunculus glaberrimus</i> var. <i>reconditus</i> *	X					X

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Ranunculus jovis</i>				X		
<i>Ranunculus populago</i>						X
<i>Rhamnus crocea</i> spp. <i>Illicifolia</i> *						X
<i>Rhizomnium nudum</i>				X		
<i>Rhynchospora alba</i>				X	X	
<i>Ribes cereum</i> var. <i>colubrinum</i>						X
<i>Ribes wolfii</i>			X			
<i>Romanzoffia thompsonii</i>	X					X
<i>Rorippa columbiae</i>	X					X
<i>Rubus arcticus</i> spp. <i>acaulis</i> *						X
<i>Rubus bartonianus</i>	X				X	X
<i>Rubus nigerrimus</i>	X					
<i>Salicornia rubra</i>			X			
<i>Salix barrattiana</i>				X		
<i>Salix candida</i>			X			X
<i>Salix delnortensis</i>						X
<i>Salix farriae</i>						X
<i>Salix glauca</i>						X
<i>Salix maccalliana</i>						X
<i>Salix pedicellaris</i>				X		
<i>Salix pseudomonticola</i>			X			X
<i>Salix sessilifolia</i>	X					
<i>Salix tweedyi</i>						X
<i>Salix vestita</i> var. <i>erecta</i>						X
<i>Salix wolfii</i> var. <i>wolfii</i>				X		
<i>Sanguisorba menziesii</i>						X
<i>Sanicula graveolens</i>			X			
<i>Sanicula marilandica</i>						X
<i>Saussurea densa</i>				X		
<i>Saxifraga adscendens</i> var. <i>oregonensis</i>						X
<i>Saxifraga bryophora</i> var. <i>tobiasiae</i>					X	
<i>Saxifraga cernua</i>						X
<i>Saxifraga hitchcockiana</i>	X					X
<i>Saxifraga tempestiva</i>				X		
<i>Saxifraga fragarioides</i>						X
<i>Scheuchzeria palustris</i> spp. <i>americana</i>				X		X
<i>Schoenoplectus subterminalis</i> *			X	X		X
<i>Scirpus pendulus</i>						X
<i>Scorpidium scorpioides</i>				X		
<i>Scribneria bolanderi</i>						X
<i>Sedum laaxum</i> spp. <i>heckneri</i>						X
<i>Sedum moranii</i>	X					X
<i>Sedum oblongeolatum</i>	X					X
<i>Senecio dimorphophyllus</i>						X
<i>Senecio flettii</i>						X
<i>Senecio hespering</i>	X					X
<i>Sidalcea campestris</i>	X					
<i>Sidalcea hirtipes</i>	X					X
<i>Sidalcea malachroides</i>						X
<i>Sidalcea malviflora</i> spp. <i>patula</i>	X					X
<i>Silene douglasii</i> var. <i>oraria</i>						X
<i>Silene hookeri</i> spp. <i>bolanderi</i>						X
<i>Silene seelyi</i>	X					X
<i>Silene spaldingii</i>	X		X			X
<i>Sisyrinchium hitchcockii</i>	X					

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Sisyrinchium sarmentosum</i>	X					X
<i>Sisyrinchium septentrionale</i>						X
<i>Sophora leachiana</i>	X					X
<i>Spartina pectinata</i>						X
<i>Sphaeromeria potentilloides</i>			X			
<i>Sphaerophorus globosus</i>			X			
<i>Sphagnum mendocinum</i>				X		
<i>Spiranthes porrifolia</i>						X
<i>Sporobolus asper</i>			X			
<i>Stanleya confertifolia</i>	X		X			
<i>Streptanthus howellii</i>	X					X
<i>Streptopus streptopoides</i> spp. <i>streptopoides</i> var. <i>brevipes</i>				X		
<i>Streptopus streptopoides</i> var. <i>brevipe</i>				X		
<i>Suksdorfia violacea</i>						X
<i>Sullivantia oregana</i>	X					X
<i>Synthyris pinnatifida</i> var. <i>lanuginosa</i>						X
<i>Synthyris platycarpa</i>				X		
<i>Talinum sediforme</i>						X
<i>Tauschia hooveri</i>	X					
<i>Tauschia howellii</i>	X					X
<i>Tauschia stricklandii</i>						X
<i>Teucrium canadense</i> var. <i>occidentale</i> *			X			
<i>Texosporium sancti-jacobi</i>			X			
<i>Thalictrum alpinum</i>				X		
<i>Thalictrum alpinum</i> var. <i>hebetum</i>						X
<i>Thalictrum dasycarpum</i>						X
<i>Thamnia vermicularis</i>			X			
<i>Thelypodium laciniatum</i> var. <i>streptanthoides</i>			X			
<i>Thelypodium brachycarpum</i>						X
<i>Thelypodium eucosmum</i>						X
<i>Thelypodium howellii</i> spp. <i>howellii</i>						X
<i>Thelypodium repandum</i>			X		X	
<i>Thelypteris nevadensis</i>				X		
<i>Thlaspi idahoense</i> var. <i>aileeniae</i>					X	
<i>Tofieldia glutinosa</i> spp. <i>brevistyla</i> *				X		
<i>Tonestus aberrans</i> *				X		
<i>Townsendia alpigena</i> *						X
<i>Townsendia parryi</i>						X
<i>Townsendia scapigera</i>			X			
<i>Trichophorum cespitosum</i> *				X		
<i>Trientalis europaea</i> spp. <i>arctica</i> *				X		
<i>Trifolium douglasii</i>	X					X
<i>Trifolium eriocephalum</i>				X		
<i>Trifolium gymnocarpon</i>				X		
<i>Trifolium leibergii</i>	X					
<i>Trifolium owyheense</i>			X			
<i>Trifolium plumosum</i> spp. <i>amplifolium</i>			X			
<i>Trifolium plumosum</i> spp. <i>plumosum</i>						X
<i>Trifolium thompsonii</i>	X					X
<i>Trillium angustipetalum</i>						X
<i>Triteleia hendersonii</i> var. <i>leachiae</i>	X					X
<i>Triteleia ixiodes</i> spp. <i>anilina</i>						X
<i>Triteleia laxa</i>						X
<i>Trollius laxus</i> var. <i>albiflorus</i>						X

Table 2. Sensitive Vertebrate and Plant Species. (continued)

Scientific Name	BLM			Forest Service Region		
	OR/WA	MT	ID	R 1	R 4	R 6
(Vascular Plants/ Bryophytes/Lichens/Fungi continued)						
<i>Ulotia megalospora</i>			X			
<i>Utricularia gibba</i>						X
<i>Utricularia intermedia</i>				X		X
<i>Vaccinium myrtilloides</i>						X
<i>Vaccinium oxycoccos</i>				X		
<i>Veratrum californicum</i>				X		
<i>Veratrum insolitum</i>						X
<i>Viola lanceolata</i> spp. <i>occidentalis</i> *	X					X
<i>Viola renifolia</i>				X		
<i>Waldsteinia idahoensis</i>			X	X		
<i>Wolffia borealis</i>						X
<i>Wolffia columbiana</i>						X
<i>Woodwardia fimbriata</i>						X
<i>Xanthoparmelia idahoensis</i>			X		X	

* Updated names based on the PLANTS national database as of July 1999.

SOURCES:

BLM State Lists:

Idaho - Mallet, J. and Hahn, M.G. 1996. Sensitive Species Supplement to the Master Memorandum of Understanding Between the Idaho Department of Fish and Game and the Bureau of Land Management, signed by Director, Idaho Fish and Game and Idaho State Director, BLM; attachments: Sensitive Species List-Animals, Sensitive Species List-Plants. List covers only those BLM districts that lie wholly or in part within the ICBEMP project area. Updated July 1999.

Montana - (1) US Fish & Wildlife Service. 1996. Memorandum to Deputy State Director, Division of Resources, Montana State Office, BLM, from Field Supervisor, Montana Field Office, USDI Fish and Wildlife Service, regarding Section 7 Consultation-Implementation of Standards for Rangeland Health, Appendix F and Appendix G, Helena, Montana, USDI Fish and Wildlife Service, Ecological Services. (2) USDI Bureau of Land Management, Manual 6840 Supplement, Special Status Species Management, April 8, 1996, 31 pp. (3) D. McCleerey, BLM Garnet Resource Area, Butte District, personal communication 3/14/97. List covers only those BLM districts that lie wholly or in part within the ICBEMP project area. Updated July 1999.

Oregon/Washington - (1) BLM Oregon/Washington Special Status Species Database. 1997. (2) B.Hill, BLM State Office Special Status Species Biologist, personal communication, 3/17/97. List covers only those BLM districts that lie wholly or in part within the ICBEMP project area. Updated July 1999.

Forest Service Region Lists:

R1 - Jolly, D. F. 1994. Update of Northern Region Sensitive Species List (1994), Memorandum to Forest Supervisors from Regional Forester, dated June 10, 1994; attachments: (a) TES List Update Changes, Northern Region Final, 6/94 (2 pp); (b) Regional Briefing, Final Region 1 Sensitive Species Update, Summary 1994 (2 pp); (c) Table 1-Wildlife, Fish and Sensitive Plants, June 94, Final (14 pp). List is for only those National Forests in Region 1 that lie wholly or in part within the ICBEMP Project Area. Updated July 1999.

R4 - (1) Wildlife, Fish & Rare Plant Staff, R4, 1995. Updated Proposed, Endangered, Threatened, and Sensitive (PETS) Species List for R4, Memorandum from T. C. Lanier, dated 11/95; attachment: Intermountain Region Proposed, Endangered, Threatened, and Sensitive Species (11/95 Update), Known/Suspected Distribution By Forest (23 pp). (2) K. Ramsey, Fisheries Biologist, Humboldt National Forest, 3/17/97. Lists are for only those National Forests that lie wholly or in part within the ICBEMP Project Area. Updated July 1999.

R6 - (1) Document 12670 ID 90-1, Sensitive Animal List, Region 6, U.S. Forest Service, revised March 1989, with annotations dated 12/30/96; Sensitive Plant List, Region 6, U.S. Forest Service, Revised March 1991, with annotations dated 12/30/96 (37 pp). (2) P. Ormsbee, Wildlife Ecologist, Willamette National Forest, personal communication, 3/18/97. Lists are for only those National Forests that lie wholly or in part within the ICBEMP Project Area. Updated July 1999.

Table 3. Terrestrial Vertebrate Species of Focus Used in the Evaluation of Alternatives.

Class ¹	Common name	Scientific name	Modeled ²	Scale ³
R	Mojave black-collared lizard	<i>Crotaphytus bicinctores</i>		BS
R	Longnose leopard lizard	<i>Gambelia wislizenii</i>		BS
R	Sharptail snake	<i>Contia tenuis</i>		BS
R	Striped whipsnake	<i>Masticophis taeniatus</i>	x	BS
R	California mountain kingsnake	<i>Lampropeltis zonata</i>		BS
R	Longnose snake	<i>Rhinocheilus lecontei</i>		BS
R	Ground snake	<i>Sonora semiannulata</i>		BS
B	Goshawk (summer and winter)	<i>Accipiter gentilis</i>	x	BS
B	Ferruginous hawk	<i>Buteo regalis</i>		BS
B	Blue grouse	<i>Dendrogapus obscurus</i>	x	BS
B	Sage grouse (summer and winter)	<i>Centrocercus urophasianus</i>	x	BS
B	Columbian sharp-tailed grouse (summer)	<i>Tympanuchus phasianellus columbianus</i>	x	BS
B	Mountain quail	<i>Oreortyx pictus</i>		BS
B	Flammulated owl	<i>Otus flammeolus</i>	x	BS
B	Burrowing owl	<i>Athene cunicularia</i>		BS
B	Great gray owl	<i>Strix nebulosa</i>		BS
B	Long-eared owl	<i>Asio otus</i>		BS
B	Short-eared owl	<i>Asio flammeus</i>	x	BS
B	Boreal owl	<i>Aegolius funereus</i>		BS
B	Vaux's swift	<i>Chaetura vauxi</i>		BS
B	Rufous hummingbird	<i>Selasphorus rufus</i>	x	BS
B	Black-chinned hummingbird	<i>Archilochus alexandri</i>		BS
B	Broad-tailed hummingbird	<i>Selasphorus platycercus</i>		BS
B	Lewis' woodpecker	<i>Melanerpes lewis</i>	x	BS
B	Williamson's sapsucker	<i>Sphyrapicus thyroideus</i>		BS
B	White-headed woodpecker	<i>Picoides albolarvatus</i>		BS
B	Three-toed woodpecker	<i>Picoides tridactylus</i>		BS
B	Black-backed woodpecker	<i>Picoides arcticus</i>	x	BS
B	Pileated woodpecker	<i>Dryocopus pileatus</i>		BS
B	Olive-sided flycatcher	<i>Contopus cooperi</i>		BS
B	Hammond's flycatcher	<i>Empidonax hammondi</i>		BS
B	Ash-throated flycatcher	<i>Myiarchus cinerascens</i>	x	BS
B	Chestnut-backed chickadee	<i>Parus rufescens</i>		BS
B	Bushtit	<i>Psaltiriparus minimus</i>		BS
B	White-breasted nuthatch	<i>Sitta carolinensis</i>		BS
B	Pygmy nuthatch	<i>Sitta pygmaea</i>	x	BS
B	Brown creeper	<i>Certhia americana</i>		BS
B	Winter wren	<i>Troglodytes troglodytes</i>		BS
B	Golden-crowned kinglet	<i>Regulus satrapa</i>		BS
B	Western bluebird	<i>Sialia mexicana</i>	x	BS
B	Varied thrush	<i>Ixoreus naevius</i>		BS
B	Sage thrasher	<i>Oreoscoptes montanus</i>		BS
B	Loggerhead shrike	<i>Lanius ludovicianus</i>		BS
B	Hermit warbler	<i>Dendroica occidentalis</i>		BS
B	Lazuli bunting	<i>Passerina amoena</i>	x	BS/FS
B	Clay-colored sparrow	<i>Spizella pallida</i>		BS
B	Brewer's sparrow	<i>Spizella breweri</i>	x	BS
B	Vesper sparrow	<i>Poecetes gramineus</i>		BS
B	Lark sparrow	<i>Chondestes grammacus</i>		BS
B	Black-throated sparrow	<i>Amphispiza bilineata</i>		BS
B	Sage sparrow	<i>Amphispiza belli</i>		BS
B	Lark bunting	<i>Calamospiza melanocorys</i>		BS
B	Grasshopper sparrow	<i>Ammodramus savannarum</i>	x	BS
B	Western meadowlark	<i>Sturnella neglecta</i>		BS
B	Brown-headed cowbird	<i>Molothrus ater</i>	x	BS
B	Black rosy finch	<i>Leucosticte arctoa</i>		BS

Table 3. Terrestrial Vertebrate Species of Focus Used in the Evaluation of Alternatives. (continued)

Class ¹	Common name	Scientific name	Modeled ²	Scale ³
B	Gray-crowned rosy finch	<i>Leucosticte tephrocotis</i>		BS
B	White-winged crossbill	<i>Loxia leucoptera</i>		BS
B	Pine siskin	<i>Carduelis pinus</i>		BS
M	Preble's shrew	<i>Sorex preblei</i>		BS
M	Pygmy shrew	<i>Sorex hoyi</i>		BS
M	Yuma myotis	<i>Myotis yumanensis</i>		BS
M	Long-eared myotis	<i>Myotis evotis</i>	x	BS
M	Fringed myotis	<i>Myotis thysanodes</i>		BS
M	Long-legged myotis	<i>Myotis volans</i>		BS
M	Western small-footed myotis	<i>Myotis ciliolabrum</i>		BS
M	Silver-haired bat	<i>Lasionycteris noctivagans</i>		BS
M	Hoary bat	<i>Lasiurus cinereus</i>	x	BS
M	Spotted bat	<i>Euderma maculatum</i>		BS
M	Townsend's big-eared bat	<i>Corynorhinus townsendii pallescens</i>		BS
M	Pallid bat	<i>Antrozous pallidus</i>		BS
M	Pygmy rabbit	<i>Brachylagus idahoensis</i>		BS
M	Idaho ground squirrel	<i>Spermophilus brunneus</i>		BS
M	White-tailed antelope squirrel	<i>Ammospermophilus leucurus</i>		BS
M	Washington ground squirrel	<i>Spermophilus washingtoni</i>	x	BS
M	Wyoming ground squirrel	<i>Spermophilus elegans</i>		BS
M	Uinta ground squirrel	<i>Spermophilus armatus</i>		BS
M	Western gray squirrel	<i>Sciurus griseus</i>		BS
M	Northern flying squirrel	<i>Glaucomys sabrinus</i>		BS
M	Sagebrush vole	<i>Lemmus curtatus</i>		BS
M	Gray wolf	<i>Canis lupus</i>	x	BS
M	Kit fox	<i>Vulpes velox</i>		BS
M	Grizzly bear	<i>Ursus arctos</i>	x	BS
M	American marten	<i>Martes americana</i>	x	BS
M	Fisher	<i>Martes pennanti</i>		BS
M	Wolverine	<i>Gulo gulo</i>	x	BS
M	Lynx	<i>Lynx lynx</i>	x	BS
M	Woodland caribou	<i>Rangifer tarandus caribou</i>	x	BS
M	Pronghorn	<i>Antilocapra americana</i>	x	BS
M	Mountain goat	<i>Oreamnos americanus</i>		BS
M	California bighorn sheep	<i>Ovis canadensis californiana</i>		BS
M	Rocky mountain bighorn sheep (summer and winter)	<i>Ovis canadensis canadensis</i>	x	BS
A	Coeur d'alene salamander	<i>Plethodon idahoensis</i>	x	FS
A	Larch mountain salamander	<i>Plethodon larselli</i>		FS
A	Idaho giant salamander	<i>Dicamptodon aterrimus</i>	x	FS
A	Tailed frog	<i>Ascaphus truei</i>	x	FS
A	Western toad	<i>Bufo boreas</i>	x	FS
A	Woodhouse's toad	<i>Bufo woodhousii</i>		FS
A	Northern leopard frog	<i>Rana pipiens</i>		FS
A	Columbian spotted frog	<i>Rana luteiventris</i>	x	FS
A	Oregon spotted frog	<i>Rana pretiosa</i>	x	FS
R	Western pond turtle	<i>Clemmys marmorata</i>	x	FS
R	Painted turtle	<i>Chrysemys picta</i>		FS
R	Rubber boa	<i>Charina bottae</i>	x	FS
R	Common garter snake	<i>Thamnophis sirtalis</i>	x	FS
B	Columbian sharp-tailed grouse(winter)	<i>Tympanuchus phasianellus columbianus</i>	x	FS
B	Common loon	<i>Gavia immer</i>		FS
B	Red-necked grebe	<i>Podiceps grisegena</i>		FS
B	Western grebe	<i>Aechmophorus occidentalis</i>		FS

Table 3. Terrestrial Vertebrate Species of Focus Used in the Evaluation of Alternatives. (continued)

Class ¹	Common name	Scientific name	Modeled ²	Scale ³
B	Clark's grebe	<i>Aechmophorus clarkii</i>		FS
B	American white pelican	<i>Pelecanus erythrorhynchos</i>		FS
B	American bittern	<i>Botaurus lentiginosus</i>		FS
B	Western least bittern	<i>Ixobrychus exilis hesperis</i>		FS
B	Great blue heron	<i>Ardea herodias</i>		FS
B	Great egret	<i>Casmerodius albus</i>		FS
B	Snowy egret	<i>Egretta thula</i>		FS
B	Black-crowned night heron	<i>Nycticorax nycticorax</i>		FS
B	White-faced ibis	<i>Plegadis chihi</i>		FS
B	Trumpeter swan	<i>Cygnus buccinator</i>		FS
B	Wood duck	<i>Aix sponsa</i>	x	FS
B	Green-winged teal	<i>Anas crecca</i>		FS
B	Mallard	<i>Anas platyrhynchos</i>		FS
B	Northern pintail	<i>Anas acuta</i>		FS
B	Blue-winged teal	<i>Anas discors</i>		FS
B	Cinnamon teal	<i>Anas cyanoptera</i>		FS
B	Northern shoveler	<i>Anas clypeata</i>		FS
B	Gadwall	<i>Anas strepera</i>		FS
B	American wigeon	<i>Anas americana</i>		FS
B	Canvasback	<i>Aythya valisineria</i>		FS
B	Redhead	<i>Aythya americana</i>		FS
B	Ring-necked duck	<i>Aythya collaris</i>		FS
B	Lesser scaup	<i>Aythya affinis</i>		FS
B	Harlequin duck	<i>Histrionicus histrionicus</i>	x	FS
B	Common goldeneye	<i>Bucephala clangula</i>	x	FS
B	Barrow's goldeneye	<i>Bucephala islandica</i>	x	FS
B	Bufflehead	<i>Bucephala albeola</i>	x	FS
B	Hooded merganser	<i>Lophodytes cucullatus</i>	x	FS
B	Common merganser	<i>Mergus merganser</i>	x	FS
B	Ruddy duck	<i>Oxyura jamaicensis</i>		FS
B	Bald eagle	<i>Haliaeetus leucocephalus</i>	x	FS
B	Yellow rail	<i>Coturnicops noveboracensis</i>		FS
B	Virginia rail	<i>Rallus limicola</i>		FS
B	Sora	<i>Porzana carolina</i>		FS
B	Greater sandhill crane	<i>Grus canadensis tabida</i>		FS
B	Western snowy plover	<i>Charadrius alexandrinus nivosus</i>		FS
B	Black-necked stilt	<i>Himantopus mexicanus</i>		FS
B	American avocet	<i>Recurvirostra americana</i>		FS
B	Willet	<i>Catoptrophorus semipalmatus</i>		FS
B	Spotted sandpiper	<i>Actitis macularia</i>		FS
B	Upland sandpiper	<i>Bartramia longicauda</i>	x	FS
B	Long-billed curlew	<i>Numenius americanus</i>		FS
B	Common snipe	<i>Gallinago gallinago</i>	x	FS
B	Wilson's phalarope	<i>Phalaropus tricolor</i>		FS
B	Forster's tern	<i>Sterna forsteri</i>		FS
B	Black tern	<i>Chlidonias niger</i>		FS
B	Yellow-billed cuckoo	<i>Coccyzus americanus</i>	x	FS
B	Western screech owl	<i>Otus kennicottii</i>	x	FS
B	Red-naped sapsucker	<i>Sphyrapicus nuchalis</i>	x	FS
B	Downy woodpecker	<i>Picoides pubescens</i>	x	FS
B	Willow flycatcher	<i>Empidonax traillii</i>	x	FS
B	Least flycatcher	<i>Empidonax minimus</i>		FS
B	Veery	<i>Catharus fuscescens</i>	x	FS
B	Red-eyed vireo	<i>Vireo olivaceus</i>	x	FS
B	Virginia's warbler	<i>Vermivora virginiae</i>		FS
B	Yellow warbler	<i>Dendroica petechia</i>	x	FS

Table 3. Terrestrial Vertebrate Species of Focus Used in the Evaluation of Alternatives. (continued)

Class ¹	Common name	Scientific name	Modeled ²	Scale ³
B	American redstart	<i>Setophaga ruticilla</i>	x	FS
B	Wilson's warbler	<i>Wilsonia pusilla</i>	x	FS
B	Yellow-breasted chat	<i>Icteria virens</i>	x	FS
B	Fox sparrow	<i>Passerella iliaca</i>	x	FS
B	Bobolink	<i>Dolichonyx oryzivorus</i>	x	FS
B	Tricolored blackbird	<i>Agelaius tricolor</i>	x	FS
B	Brewer's blackbird	<i>Euphagus cyanocephalus</i>	x	FS
M	Water shrew	<i>Sorex palustris</i>		FS
M	Water vole	<i>Microtus richardsoni</i>		FS
M	Northern bog lemming	<i>Synaptomys borealis</i>		FS

¹ Class - B = bird; M = mammal; R = reptile; and A = amphibian.

² species used for modeling portion of evaluation of alternatives.

³ Scale - BS: Broad-scale species of focus assessed. Ninety-one species were identified as broad-scale vertebrates of focus, whose source habitats could reliably be evaluated by using a mapping unit (pixel size) of 100 hectares (254 acres).

FS: Fine-scale species of focus, whose source habitats require mapping units <100 hectares (254 acres).

Source: Table 1 Volume 1 Wisdom et. al. (in press)

Table 4. Plants with a Natural Heritage Rank of G1-G3 (and/or T1-T3) Included in Evaluation of Alternatives.

Taxa	Species	Rank ¹	WA	OR	MT	ID
N	<i>Aspicilia fruticulosa</i>	G3				X
N	<i>Bryoria subdivergens</i>	G2			X	
N	<i>Bryoria tortuosa</i>	G?	X			
N	<i>Bryum calobryoides</i>	G3				X
N	<i>Buxbaumia aphylla</i>	G3				X
N	<i>Cladonia andereggii</i>	G1				X
N	<i>Cladonia imbricaria</i>	G2G3				X
N	<i>Cladonia luteoalba</i>	G2				X
N	<i>Cladonia verruculosa</i>	G3				X
N	<i>Collema curtisporum</i>	G1				X
N	<i>Dermatocarpon lorenzianum</i>	G2				X
N	<i>Dicranella heteromalla</i>	G?			X	
N	<i>Dicranum acutifolium</i>	G?			X	
N	<i>Grimmia mollis</i>	G3G5			X	
N	<i>Heterotheca barbata</i>	G1G3				X
N	<i>Heterotheca villosa</i> var. <i>depressa</i>	G5T3				X
N	<i>Hygrohypnum cochlearifolium</i>	G?			X	
N	<i>Hypnum recurvatum</i>	G3G5			X	
N	<i>Lobaria scrobiculata</i>	G3G4				X
N	<i>Meesia longiseta</i>	G3G4				X
N	<i>Orthotrichum hallii</i>	G3G5				X
N	<i>Orthotrichum holzingeri</i>	G2				X
N	<i>Orthotrichum praemorsum</i>	G?			X	
N	<i>Pseudocrossidium obtusulum</i>	G?			X	
N	<i>Ramalina thrausta</i>	G?				X
N	<i>Sphaerocarpos hians</i>	G2				X
N	<i>Texosporium sancti-jacobi</i>	G2	X	X		X
N	<i>Thamnotia vermicularis</i>	G?				X
N	<i>Thelomma ocellatum</i>	G?				X
N	<i>Tortula bartramii</i>	G2G4			X	
N	<i>Ulotia curvifolia</i>	G3G5				X
N	<i>Ulotia megalospora</i>	G?				X
N	<i>Umbilicaria vellea</i>	G3	X			
N	<i>Xanthoparmelia idahoensis</i>	G2				X
V	<i>Achnatherum hendersonii</i>	G3		X		
V	<i>Achnatherum wallowaensis</i>	G2		X		
V	<i>Adiantum aleuticum</i> subalpine ecotype	G5?T2Q				X
V	<i>Agastache cusickii</i>	G3G4		X		
V	<i>Allium aaseae</i>	G3				X
V	<i>Allium columbianum</i>	G3			X	
V	<i>Allium constrictum</i>	G2	X			
V	<i>Allium dictuon</i>	G1	X			
V	<i>Allium madidum</i>	G3				X
V	<i>Allium robinsonii</i>	G3		X		
V	<i>Allium tolmiei</i> var. <i>persimile</i>	G4T3				X
V	<i>Allium tolmiei</i> var. <i>platyphyllum</i>	G4T3Q				X
V	<i>Amsinckia carinata</i>	G2		X		
V	<i>Antennaria arcuata</i>	G2				X
V	<i>Antennaria densifolia</i>	G3			X	
V	<i>Arabis fecunda</i>	G2			X	
V	<i>Arabis hastatula</i>	G1		X		X

Table 4. Plants with a Natural Heritage Rank of G1-G3 (and/or T1-T3) Included in Evaluation of Alternatives. (continued)

Taxa	Species	Rank ¹	WA	OR	MT	ID
V	<i>Arabis lasiocarpa</i>	G1				X
V	<i>Arabis sparsiflora</i> var. <i>atrorubens</i>	G5T3		X		
V	<i>Artemisia campestris</i> spp. <i>borealis</i>	G5T1	X			
V	<i>Artemisia campestris</i> var. <i>wormskioldii</i>	G5T1		X		
V	<i>Artemisia ludoviciana</i> spp. <i>estesii</i>	G5T2		X		
V	<i>Artemisia packardiae</i>	G3				X
V	<i>Artemisia papposa</i>	G3		X		X
V	<i>Aster jessicae</i>	G2	X			X
V	<i>Astragalus amblytropis</i>	G3				X
V	<i>Astragalus amnis-amissi</i>	G3				X
V	<i>Astragalus anserinus</i>	G2				X
V	<i>Astragalus applegatei</i>	G1		X		
V	<i>Astragalus aquilonius</i>	G3				X
V	<i>Astragalus arrectus</i>	G2G3	X			
V	<i>Astragalus</i> var. <i>inseptus</i>	G4T3				X
V	<i>Astragalus atratus</i> var. <i>owyheensis</i>	G4T3				X
V	<i>Astragalus beckwithii</i> var. <i>sulcatus</i>	G4T3				X
V	<i>Astragalus camptopus</i>	G3				X
V	<i>Astragalus ceramicus</i> var. <i>apus</i>	G4T3				X
V	<i>Astragalus collinus</i> var. <i>laurentii</i>	G5T1		X		
V	<i>Astragalus columbianus</i>	G2	X			
V	<i>Astragalus cusickii</i> var. <i>packardiae</i>	G5T1				X
V	<i>Astragalus cusickii</i> var. <i>sterilis</i>	G5T2				X
V	<i>Astragalus diaphanus</i> var. <i>diurnus</i>	G4T2		X		
V	<i>Astragalus diversifolius</i>	G3				X
V	<i>Astragalus jejunos</i>	G3G4				X
V	<i>Astragalus jejunos</i> var. <i>jejunos</i>	G3G4T3?				X
V	<i>Astragalus misellus</i> var. <i>pauper</i>	G4T3	X			
V	<i>Astragalus mulfordiae</i>	G2		X		X
V	<i>Astragalus oniciformis</i>	G3				X
V	<i>Astragalus paysonii</i>	G3				X
V	<i>Astragalus peckii</i>	G3		X		
V	<i>Astragalus pulsiferae</i> var. <i>suksdorfii</i>	G4T3?	X			
V	<i>Astragalus purshii</i> var. <i>ophiogenes</i>	G5T3				X
V	<i>Astragalus riparius</i>	G2	X			X
V	<i>Astragalus scaphoides</i>	G3				X
V	<i>Astragalus sinuatus</i>	G1	X			
V	<i>Astragalus sterilis</i>	G2Q		X		X
V	<i>Astragalus tegetarioides</i>	G3		X		
V	<i>Astragalus tyghensis</i>	G2		X		
V	<i>Astragalus vexilliflexus</i> var. <i>nubilus</i>	G4T2				X
V	<i>Astragalus yoder-williamsii</i>	G3				X
V	<i>Bolandra oregana</i>	G3	X			
V	<i>Botrychium ascendens</i>	G3	X	X	X	X
V	<i>Botrychium campestre</i>	G3	X	X	X	
V	<i>Botrychium crenulatum</i>	G3	X	X	X	X
V	<i>Botrychium hesperium</i>	G3	X		X	
V	<i>Botrychium lineare</i>	G1	X	X	X	X
V	<i>Botrychium montanum</i>	G3		X	X	X
V	<i>Botrychium pallidum</i>	G2			X	
V	<i>Botrychium paradoxum</i>	G2	X	X	X	X

Table 4. Plants with a Natural Heritage Rank of G1-G3 (and/or T1-T3) Included in Evaluation of Alternatives. (continued)

Taxa	Species	Rank ¹	WA	OR	MT	ID
V	<i>Botrychium pedunculatum</i>	G2?	x	x	x	x
V	<i>Botrychium pumicola</i>	G3		x		
V	<i>Botrychium spathulatum</i>	G3G4			x	
V	<i>Calamagrostis tweedyi</i>	G2G3			x	x
V	<i>Calochortus greenei</i>	G2		x		
V	<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i>	G3T3	x			
V	<i>Calochortus longebarbatus</i> var. <i>peckii</i>	G3T3		x		
V	<i>Calochortus macrocarpus</i> var. <i>maculosus</i>	G5T2	x	x		x
V	<i>Calochortus nitidus</i>	G3	x			x
V	<i>Camissonia palmeri</i>	G3G4				x
V	<i>Camissonia pygmaea</i>	G3	x	x		
V	<i>Cardamine constancei</i>	G3				x
V	<i>Carex lenticularis</i> var. <i>dolia</i>	G5T3Q			x	
V	<i>Carex luzulina</i> var. <i>atropurpurea</i>	G5T3				x
V	<i>Carex Parryana</i> spp. <i>Idaho</i>	G4T2			x	x
V	<i>Carex stenoptila</i>	G3?			x	
V	<i>Castilleja cervina</i>	G3G4			x	
V	<i>Castilleja chlorotica</i>	G3		x		
V	<i>Castilleja christii</i>	G1				x
V	<i>Castilleja covilleana</i>	G3G4			x	
V	<i>Castilleja cryptantha</i>	G2	x			
V	<i>Castilleja fraterna</i>	G2		x		
V	<i>Castilleja oresbia</i>	G3G4				x
V	<i>Castilleja pilosa</i> var. <i>steenensis</i>	G4?T3		x		
V	<i>Castilleja pulchella</i>	G3				x
V	<i>Castilleja rubida</i>	G2		x		
V	<i>Castilleja thompsonii</i>	G3G4		x		
V	<i>Caulanthus major</i> var. <i>nevadensis</i>	G3?T?		x		
V	<i>Cetraria subalpina</i>	G2G3				x
V	<i>Chaenactis cusickii</i>	G2G3		x		x
V	<i>Chaenactis thompsonii</i>	G2G3	x			
V	<i>Chrysothamnus parryi</i> spp. <i>montanus</i>	G5T1				x
V	<i>Chrysothamnus parryi</i> spp. <i>salmonensis</i>	G5T3				x
V	<i>Collomia debilis</i> var. <i>camporum</i>	G5T3				x
V	<i>Collomia macrocalyx</i>	G3G4	x			
V	<i>Collomia mazama</i>	G3		x		
V	<i>Collomia renacta</i>	G1Q		x		
V	<i>Corydalis caseana</i> spp. <i>hastata</i>	G5T3				x
V	<i>Crepis bakeri</i> spp. <i>idahoensis</i>	G4T2				x
V	<i>Cryptantha caespitosa</i>	G3				x
V	<i>Cryptantha hypsophila</i>	G3G4				x
V	<i>Cryptantha leucophaea</i>	G2G3	x	x		
V	<i>Cryptantha salmonensis</i>	G3				x
V	<i>Cymopterus acaulis</i> var. <i>greeleyorum</i>	G5T2				x
V	<i>Cymopterus davisii</i>	G3				x
V	<i>Cymopterus douglassii</i>	G3				x
V	<i>Dasynotus daubenmirei</i>	G3				x
V	<i>Delphinium viridescens</i>	G2	x			
V	<i>Douglasia idahoensis</i>	G2				x
V	<i>Draba argyrea</i>	G3				x
V	<i>Draba globosa</i>	G3				x

Table 4. Plants with a Natural Heritage Rank of G1-G3 (and/or T1-T3) Included in Evaluation of Alternatives. (continued)

Taxa	Species	Rank ¹	WA	OR	MT	ID
V	<i>Draba macounii</i>	G3G4			x	
V	<i>Draba trichocarpa</i>	G1G2				x
V	<i>Erigeron basalticus</i>	G1	x			
V	<i>Erigeron eatonii</i> var. <i>lavandulus</i>	G5T3				x
V	<i>Erigeron engelmannii</i> var. <i>davisii</i>	G5T2		x		x
V	<i>Erigeron lackschewitzii</i>	G3Q			x	
V	<i>Erigeron latus</i>	G2				x
V	<i>Erigeron piperianus</i>	G3	x			
V	<i>Erigeron radicans</i>	G3				x
V	<i>Erigeron salishii</i>	G2	x			
V	<i>Erigeron salmonensis</i>	G3				x
V	<i>Eriogonum capistratum</i> var. <i>welshii</i>	G4T2				x
V	<i>Eriogonum chrysops</i>	G1		x		
V	<i>Eriogonum codium</i>	G1	x			
V	<i>Eriogonum crosbyae</i>	G3		x		
V	<i>Eriogonum cusickii</i>	G2		x		
V	<i>Eriogonum desertorum</i>	G3G4				x
V	<i>Eriogonum meledonum</i>	G1				x
V	<i>Eriogonum ochrocephalum</i> var. <i>calcareum</i>	G4T3				x
V	<i>Eriogonum prociduum</i>	G3		x		
V	<i>Eriogonum salicornioides</i>	G3?		x		x
V	<i>Eriogonum shockleyi</i> var. <i>packardiae</i>	G5T2				x
V	<i>Eriogonum</i> spp. Nov. (War eagle mountain)	G1Q				x
V	<i>Erythronium grandiflorum</i> spp. <i>nudipetalum</i>	G5T3				x
V	<i>Fraseria albicaulis</i> var. <i>idahoensis</i>	G5T3Q				x
V	<i>Galium serpenticum</i> spp. <i>warnerense</i>	G4G5T2Q		x		
V	<i>Geum rossii</i> var. <i>depressum</i>	G5T1	x			
V	<i>Gratiola heterosepala</i>	G3		x		
V	<i>Grindelia howellii</i>	G3			x	x
V	<i>Hackelia cronquistii</i>	G2		x		x
V	<i>Hackelia davisii</i>	G3				x
V	<i>Hackelia diffusa</i> var. <i>diffusa</i>	G4T2	x			
V	<i>Hackelia hispida</i> var. <i>disjuncta</i>	G4T2T3	x			
V	<i>Hackelia ophiobia</i>	G2G3		x		x
V	<i>Hackelia</i> spp. Nov. (Sleeping deer mountain)	G1Q				x
V	<i>Hackelia venusta</i>	G1	x			
V	<i>Halimolobos perplexa</i> var. <i>perplexa</i>	G4T3				x
V	<i>Haplopappus aberrans</i>	G3			x	x
V	<i>Haplopappus hirtus</i> var. <i>sonchifolius</i>	G4G5T3?				x
V	<i>Haplopappus insecticuriis</i>	G3				x
V	<i>Haplopappus integrifolius</i>	G3?				x
V	<i>Haplopappus liatiriformis</i>	G2	x			x
V	<i>Haplopappus radiatus</i>	G3		x		x
V	<i>Haplopappus uniflorus</i> var. <i>howellii</i>	G5T1				x
V	<i>Heuchera grossulariifolia</i> var. <i>tenuifolia</i>	G4T3?	x			
V	<i>Howellia aquatilis</i>	G2	x		x	x
V	<i>Hymenoxys lemmonii</i>	G3?		x		
V	<i>Iliamna longisepala</i>	G3	x			
V	<i>Ipomopsis minutiflora</i>	G2G3			x	
V	<i>Ivesia rhypara</i> var. <i>rhypara</i>	G2T1		x		
V	<i>Ivesia rhypara</i> var. <i>shellyi</i>	G2T1		x		

Table 4. Plants with a Natural Heritage Rank of G1-G3 (and/or T1-T3) Included in Evaluation of Alternatives. (continued)

Taxa	Species	Rank ¹	WA	OR	MT	ID
V	<i>Ivesia shockleyi</i>	G3G4		X		
V	<i>Juncus kelloggii</i>	G3?	X			
V	<i>Juncus tweedyi</i>	G3				X
V	<i>Juncus uncialis</i>	G3G4	X			
V	<i>Lepidium davisii</i>	G3		X		X
V	<i>Lepidium papilliferum</i>	G2				X
V	<i>Leptodactylon glabrum</i>	G2				X
V	<i>Leptodactylon pungens</i> spp. <i>hazeliae</i>	G5T1		X		X
V	<i>Lesquerella carinata</i> var. <i>languida</i>	G3G4T1			X	
V	<i>Lesquerella humilis</i>	G1			X	
V	<i>Lesquerella kingii</i> var. <i>cobrensis</i>	G5T3?				X
V	<i>Lesquerella multiceps</i>	G3				X
V	<i>Lesquerella paysonii</i>	G3			X	X
V	<i>Lesquerella tuplashensis</i>	G1	X			
V	<i>Limnanthes floccosa</i> spp. <i>bellingermaniana</i>	G4T2		X		
V	<i>Lomatium erythrocarpum</i>	G1		X		
V	<i>Lomatium geyeri</i>	G3G4			X	
V	<i>Lomatium greenmanii</i>	G1		X		
V	<i>Lomatium laevigatum</i>	G3	X			
V	<i>Lomatium ochocense</i>	G2G3		X		
V	<i>Lomatium packardiae</i>	G2?				X
V	<i>Lomatium rollinsii</i>	G3	X			X
V	<i>Lomatium salmoniflorum</i>	G3		X		X
V	<i>Lomatium suksdorfii</i>	G3	X	X		
V	<i>Lomatium tuberosum</i>	G2	X			
V	<i>Luina serpentina</i>	G2		X		
V	<i>Lupinus lepidus</i> var. <i>sellulus</i>	G4T2				X
V	<i>Lunpinus lyallii</i> spp. <i>alics-temporis</i>	G5T1?				X
V	<i>Lupinus sericeus</i> var. <i>egglestonianus</i>	G5T2T4Q		X		
V	<i>Meconella oregana</i>	G2	X	X		
V	<i>Mentzelia mollis</i>	G2		X		X
V	<i>Mentzelia packardiae</i>	G1		X		
V	<i>Mentzelia torreyi</i> var. <i>acerosa</i>	G4T3				X
V	<i>Mimulus ampliatus</i>	G1				X
V	<i>Mimulus evanescens</i>	G3?		X		X
V	<i>Mimulus hymenophyllus</i>	G1		X		X
V	<i>Mimulus jungermannioides</i>	G2	X	X		
V	<i>Mimulus patulus</i>	G2Q			X	X
V	<i>Mirabilis macfarlanei</i>	G2		X		X
V	<i>Musineon lineare</i>	G2				X
V	<i>Myosurus sessilis</i>	G2		X		
V	<i>Oenothera psammophila</i>	G3				X
V	<i>Orthocarpus bracteosus</i>	G3?	X			
V	<i>Oxytropis besseyi</i> var. <i>salmonensis</i>	G5T3				X
V	<i>Oxytropis campestris</i> var. <i>columbiana</i>	G5T3	X		X	
V	<i>Oxytropis campestris</i> var. <i>wanapum</i>	G5T1	X			
V	<i>Papaver radiculatum</i> spp. <i>kluanense</i>	G3?Q				X
V	<i>Pedicularis contorta</i> var. <i>rubicunda</i>	G5T2			X	
V	<i>Pedicularis rainierensis</i>	G2G3	X			
V	<i>Penstemon barrettiae</i>	G2	X	X		
V	<i>Penstemon compactus</i>	G2G3				X

Table 4. Plants with a Natural Heritage Rank of G1-G3 (and/or T1-T3) Included in Evaluation of Alternatives. (continued)

Taxa	Species	Rank ¹	WA	OR	MT	ID
V	<i>Penstemon deustus</i> var. <i>variabilis</i>	G5T2	x			
V	<i>Penstemon glaucinus</i>	G3		x		
V	<i>Penstemon idahoensis</i>	G1				x
V	<i>Penstemon lemhiensis</i>	G3			x	x
V	<i>Penstemon peckii</i>	G3		x		
V	<i>Perideridia erythrorhiza</i>	G1		x		
V	<i>Petrophyton cinerascens</i>	G1	x			
V	<i>Phacelia inconspicua</i>	G2				x
V	<i>Phacelia lenta</i>	G2	x			
V	<i>Phacelia lutea</i> var. <i>calva</i>	G4T2				x
V	<i>Phacelia lutea</i> var. <i>mackenzieorum</i>	G4T3		x		
V	<i>Phacelia lyallii</i>	G3				x
V	<i>Phacelia minutissima</i>	G3	x	x		x
V	<i>Phlox idahonis</i>	G1				x
V	<i>Phlox kelseyi</i> var. <i>missoulensis</i>	G2			x	
V	<i>Physaria didymocarpa</i> var. <i>lyrata</i>	G5T1				x
V	<i>Physaria integrifolia</i>	G3G4				x
V	<i>Physaria integrifolia</i> var. <i>monticola</i>	G3G4T2Q				x
V	<i>Plagiobothrys salsus</i>	G3G4		x		
V	<i>Pleuropogon oregonus</i>	G1		x		
V	<i>Poa abbreviata</i> spp. <i>marshii</i>	G5T1				x
V	<i>Polemonium pectinatum</i>	G2	x			
V	<i>Potamogeton foliosus</i> var. <i>fibrillosus</i>	G5T2T4		x		
V	<i>Primula alcalina</i>	G1				x
V	<i>Primula brodiaeae</i>	G2				x
V	<i>Primula wilcoxiana</i>	G3				x
V	<i>Ranunculus reconditus</i>	G2	x	x		
V	<i>Ribes cereum</i> var. <i>colubrinum</i>	G5T3	x			
V	<i>Ribes oxyacanthoides</i> spp. <i>irriguum</i>	G5T3T4	x			
V	<i>Ribes velutinum</i> var. <i>1</i>	G5T3				x
V	<i>Rorippa columbiae</i>	G3	x	x		
V	<i>Rubus bartonianus</i>	G2		x		x
V	<i>Rubus nigerrimus</i>	G1	x			
V	<i>Salix tweedyi</i>	G3?	x			
V	<i>Saussurea densa</i>	G3G5			x	
V	<i>Saussurea weberi</i>	G3Q			x	
V	<i>Saxifraga bryophora</i> var. <i>tobiasiae</i>	G5T1				x
V	<i>Saxifraga tempestiva</i>	G2			x	
V	<i>Saxifragopsis fragarioides</i>	G3?	x			
V	<i>Scirpus rollandii</i>	G3Q				x
V	<i>Scribneria bolanderi</i>	G3G4		x		
V	<i>Senecio ertterae</i>	G1		x		
V	<i>Senecio streptanthifolius</i> var. <i>laetiflorus</i>	G5T3				x
V	<i>Sidalcea oregana</i> var. <i>calva</i>	G5T1	x			
V	<i>Silene seelyi</i>	G1G2	x			
V	<i>Silene spaldingii</i>	G2	x	x	x	x
V	<i>Sisyrinchium sarmentosum</i>	G2	x			
V	<i>Sisyrinchium septentrionale</i>	G3G4	x			
V	<i>Spiranthes diluvialis</i>	G2	x			x
V	<i>Stanleya confertiflora</i>	G1		x		x
V	<i>Stephanomeria malheurensis</i>	G1		x		

Table 4. Plants with a Natural Heritage Rank of G1-G3 (and/or T1-T3) Included in Evaluation of Alternatives. (continued)

Taxa	Species	Rank ¹	WA	OR	MT	ID
V	<i>Sullivantia hapemanii</i>	G3				x
V	<i>Sullivantia hapemanii</i> var. <i>hapemanii</i>	G3T3				x
V	<i>Synthyris platycarpa</i>	G3				x
V	<i>Talinum sediforme</i>	G2G3	x			
V	<i>Tauschia hooveri</i>	G2	x			
V	<i>Tauschia tenuissima</i>	G3	x			x
V	<i>Thelypodium brachycarpum</i>	G3		x		
V	<i>Thelypodium eucosmum</i>	G2		x		
V	<i>Thelypodium howellii</i> spp. <i>howellii</i>	G2?T1?		x		
V	<i>Thelypodium howellii</i> spp. <i>spectabilis</i>	G2?T1		x		
V	<i>Thelypodium paniculatum</i>	G2G3				x
V	<i>Thelypodium repandum</i>	G3				x
V	<i>Thlaspi idahoense</i> var. <i>aileeniae</i>	G4T3				x
V	<i>Thlaspi parviflorum</i>	G3			x	
V	<i>Trifolium douglasii</i>	G3G4	x	x		
V	<i>Trifolium eriocephalum</i> spp. <i>arcuatum</i>	G4T3?			x	
V	<i>Trifolium leibergii</i>	G2		x		
V	<i>Trifolium owyheense</i>	G2G3		x		x
V	<i>Trifolium plumosum</i> var. <i>amplifolium</i>	G4T2				x
V	<i>Trifolium thompsonii</i>	G2	x			
V	<i>Veratrum insolitum</i>	G3	x			
V	<i>Waldsteinia idahoensis</i>	G3			x	x

¹ The network of Natural Heritage Programs and Conservation Data Centers — which currently consists of installations in all 50 states, several Canadian provinces, and several Latin American and Caribbean countries — ranks the rangewide (GRANK or global rank) and state (SRANK or state rank) status of plants, animals, and plant communities on a scale of 1 to 5. The rank is primarily based on the number of known occurrences, but other factors such as habitat quality, estimated number of individuals, narrowness of range of habitat, trends in populations and habitat, threats to the element, and other factors are also considered. The ranking system is meant to exist alongside national and state rare species lists because these lists often include additional criteria (for example, recovery potential, depth of knowledge) that go beyond assessing threats to extinction.

COMPONENTS OF RANKS:

G = Global rank indicator; denotes rank based on rangewide status.

T = Trinomial rank indicator; denotes rangewide status of intraspecific taxa.

S = State rank indicator; denotes rank based on status within a particular state.

1 = Critically imperiled because of extreme rarity or because some factor of its biology makes it especially vulnerable to extinction (typically 5 or fewer occurrences).

2 = Imperiled because of rarity or because other factors demonstrably make it very vulnerable to extinction (typically 6 to 20 occurrences).

3 = Rare or uncommon but not imperiled (typically 21 to 100 occurrences).

4 = Not rare and apparently secure, but with cause for long-term concern (usually more than 100 occurrences).

5 = Demonstrably widespread, abundant, and secure.

Q = Indicates uncertainty about taxonomic status.

? = Not yet ranked.

Example: **G4T2** = species is apparently secure rangewide, but this particular subspecies or variety is imperiled.

Table 5. Vertebrates Not Used in the Evaluation of Alternatives.

Common name	Scientific name	Evaluation ¹
Amphibians		
Cascade torrent salamander	<i>Rhyacotriton cascadae</i>	no
Cope's giant salamander	<i>Dicamptodon copei</i>	no
Long-toed salamander	<i>Ambystoma macrodactylum</i>	no
Northwestern salamander	<i>Ambystoma gracile</i>	no
Tiger salamander	<i>Ambystoma tigrinum</i>	no
Dunn's salamander	<i>Plethodon dunni</i>	no
Ensatina	<i>Ensatina eschscholtzii</i>	no
Oregon slender salamander	<i>Batrachoseps wrighti</i>	no
Rough-skin newt	<i>Taricha granulosa</i>	no
Pacific chorus frog	<i>Pseudacris regilla</i>	no
Western chorus frog	<i>Pseudacris triseriata</i>	no
Great basin spadefoot	<i>Spea intermontana</i>	no
Bullfrog	<i>Rana catesbeiana</i>	no
Cascades frog	<i>Rana cascadae</i>	no
Foothill yellow-legged frog	<i>Rana boylei</i>	no
Green frog	<i>Rana clamitans</i>	no
Red-legged frog	<i>Rana aurora</i>	no
Wood frog	<i>Rana sylvatica</i>	Fine
Birds		
Pacific loon	<i>Gavia pacifica</i>	no
Red-throated loon	<i>Gavia stellata</i>	no
Yellow-billed loon	<i>Gavia adamsii</i>	no
Eared grebe	<i>Podiceps nigricollis</i>	no
Horned grebe	<i>Podiceps auritus</i>	no
Pied-billed grebe	<i>Podilymbus podiceps</i>	no
Double-crested cormorant	<i>Phalacrocorax auritus</i>	no
Cattle egret	<i>Bubulcus ibis</i>	no
Green heron	<i>Butorides virescens</i>	no
American black duck	<i>Anas rubripes</i>	no
Black scoter	<i>Melanitta nigra</i>	no
Brant	<i>Branta bernicla</i>	no
Canada goose	<i>Branta canadensis</i>	no
Eurasian wigeon	<i>Anas penelope</i>	no
Greater scaup	<i>Aythya marila</i>	no
Greater white-fronted goose	<i>Anser albifrons</i>	no
Mute swan	<i>Cygnus olor</i>	no
Oldsquaw	<i>Clangula hyemalis</i>	no
Red-breasted merganser	<i>Mergus serrator</i>	no
Ross' goose	<i>Chen rossii</i>	no
Snow goose	<i>Chen caerulescens</i>	no
Surf scoter	<i>Melanitta perspicillata</i>	no
Tundra swan	<i>Cygnus columbianus</i>	no
White-winged scoter	<i>Melanitta fusca</i>	no
Turkey vulture	<i>Cathartes aura</i>	no
Black-shouldered kite	<i>Elanus caeruleus</i>	no
Cooper's hawk	<i>Accipiter cooperii</i>	no
Golden eagle	<i>Aquila chrysaetos</i>	no
Northern harrier	<i>Circus cyaneus</i>	no
Osprey	<i>Pandion haliaetus</i>	no
Red-shouldered hawk	<i>Buteo lineatus</i>	no
Red-tailed hawk	<i>Buteo jamaicensis</i>	no
Rough-legged hawk	<i>Buteo lagopus</i>	no
Sharp-shinned hawk	<i>Accipiter striatus</i>	no
Swainson's hawk	<i>Buteo swainsoni</i>	no
American kestrel	<i>Falco sparverius</i>	no
Gyr Falcon	<i>Falco rusticolus</i>	no

Table 5. Vertebrates Not Used in the Evaluation of Alternatives. (continued)

Common name	Scientific name	Evaluation ¹
Merlin	<i>Falco columbarius</i>	no
Peregrine falcon	<i>Falco peregrinus</i>	no
Prairie falcon	<i>Falco mexicanus</i>	no
California quail	<i>Callipepla californica</i>	no
Chukar	<i>Alectoris chukar</i>	no
Gambel's quail	<i>Callipepla gambelii</i>	no
Gray partridge	<i>Perdix perdix</i>	no
Northern bobwhite	<i>Colinus virginianus</i>	no
Ring-necked pheasant	<i>Phasianus colchicus</i>	no
Ruffed grouse	<i>Bonasa umbellus</i>	no
Scaled quail	<i>Callipepla squamata</i>	no
Spruce grouse	<i>Dendragapus canadensis</i>	no
White-tailed ptarmigan	<i>Lagopus leucurus</i>	no
Wild turkey	<i>Meleagris gallopavo</i>	no
American coot	<i>Fulica americana</i>	no
Whooping crane	<i>Grus americana</i>	no
American golden-plover	<i>Pluvialis dominica</i>	no
Black-bellied plover	<i>Pluvialis squatarola</i>	no
Killdeer	<i>Charadrius vociferus</i>	no
Mountain plover	<i>Charadrius montanus</i>	no
Semipalmated plover	<i>Charadrius semipalmatus</i>	no
Baird's sandpiper	<i>Calidris bairdii</i>	no
Dunlin	<i>Calidris alpina</i>	no
Greater yellowlegs	<i>Tringa melanoleuca</i>	no
Hudsonian godwit	<i>Limosa haemastica</i>	no
Least sandpiper	<i>Calidris minutilla</i>	no
Lesser yellowlegs	<i>Tringa flavipes</i>	no
Long-billed curlew	<i>Numenius americanus</i>	no
Marbled godwit	<i>Limosa fedoa</i>	no
Pectoral sandpiper	<i>Calidris melanotos</i>	no
Red knot	<i>Calidris canutus</i>	no
Red phalarope	<i>Phalaropus fulicaria</i>	no
Red-necked phalarope	<i>Phalaropus lobatus</i>	no
Sanderling	<i>Calidris alba</i>	no
Semipalmated sandpiper	<i>Calidris pusilla</i>	no
Short-billed dowitcher	<i>Limnodromus griseus</i>	no
Solitary sandpiper	<i>Tringa solitaria</i>	no
Stilt sandpiper	<i>Calidris himantopus</i>	no
Western sandpiper	<i>Calidris mauri</i>	no
Whimbrel	<i>Numenius phaeopus</i>	no
White-rumped sandpiper	<i>Calidris fuscicollis</i>	no
Bonaparte's gull	<i>Larus philadelphia</i>	no
California gull	<i>Larus californicus</i>	no
Caspian tern	<i>Sterna caspia</i>	Fine
Common tern	<i>Sterna hirundo</i>	no
Franklin's gull	<i>Larus pipixcan</i>	no
Glaucous gull	<i>Larus hyperboreus</i>	no
Glaucous-winged gull	<i>Larus glaucescens</i>	no
Herring gull	<i>Larus argentatus</i>	no
Long-tailed jaeger	<i>Stercorarius longicaudus</i>	no
Mew gull	<i>Larus canus</i>	no
Parasitic jaeger	<i>Stercorarius parasiticus</i>	no
Ring-billed gull	<i>Larus delawarensis</i>	no
Sabine's gull	<i>Xema sabini</i>	no
Thayer's gull	<i>Larus thayeri</i>	no
Ancient murrelet	<i>Synthliboramphus antiquus</i>	no
Marbled murrelet	<i>Brachyramphus marmoratus</i>	no
Band-tailed pigeon	<i>Columba fasciata</i>	no

Table 5. Vertebrates Not Used in the Evaluation of Alternatives. (continued)

Common name	Scientific name	Evaluation ¹
Mourning dove	<i>Zenaida macroura</i>	no
Rock dove	<i>Columba livia</i>	no
Black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>	no
Common barn owl	<i>Tyto alba</i>	no
Barred owl	<i>Strix var.ia</i>	no
Great horned owl	<i>Bubo virginianus</i>	no
Northern hawk owl	<i>Surnia ulula</i>	no
Northern pygmy-owl	<i>Glaucidium gnoma</i>	no
Northern saw-whet owl	<i>Aegolius acadicus</i>	no
Northern spotted owl	<i>Strix occidentalis caurina</i>	no
Snowy owl	<i>Nyctea scandiaca</i>	no
Common nighthawk	<i>Chordeiles minor</i>	no
Common poorwill	<i>Phalaenoptilus nuttallii</i>	no
Whip-poor-will	<i>Caprimulgus vociferus</i>	no
Black swift	<i>Cypseloides niger</i>	no
White-throated swift	<i>Aeronautes saxatalis</i>	no
Anna's hummingbird	<i>Calypte anna</i>	no
Calliope hummingbird	<i>Stellula calliope</i>	no
Costa's humminmbird	<i>Calypte costae</i>	no
Belted kingfisher	<i>Ceryle alcyon</i>	no
Hairy woodpecker	<i>Picoides villosus</i>	no
Northern flicker	<i>Colaptes auratus</i>	no
Red-breasted sapsucker	<i>Sphyrapicus ruber</i>	Fine
Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	no
Yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Fine
Acorn woodpecker	<i>Melanerpes formicivorus</i>	no
Alder flycatcher	<i>Empidonax alnorum</i>	no
Cordilleran flycatcher	<i>Empidonax occidentalis</i>	no
Dusky flycatcher	<i>Empidonax oberholseri</i>	no
Eastern kingbird	<i>Tyrannus tyrannus</i>	no
Gray flycatcher	<i>Empidonax wrightii</i>	no
Say's phoebe	<i>Sayornis saya</i>	no
Scissor-tailed flycatcher	<i>Tyrannus forficatus</i>	no
Western kingbird	<i>Tyrannus verticalis</i>	no
Western wood-pewee	<i>Contopus sordidulus</i>	no
Horned lark	<i>Eremophila alpestris</i>	no
Bank swallow	<i>Riparia riparia</i>	no
Barn swallow	<i>Hirundo rustica</i>	no
Cliff swallow	<i>Hirundo pyrrhonota</i>	no
Northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>	no
Purple martin	<i>Progne subis</i>	no
Tree swallow	<i>Tachycineta bicolor</i>	no
Violet-green swallow	<i>Tachycineta thalassina</i>	no
American crow	<i>Corvus brachyrhynchos</i>	no
Black-billed magpie	<i>Pica pica</i>	no
Blue jay	<i>Cyanocitta cristata</i>	no
Clark's nutcracker	<i>Nucifraga columbiana</i>	no
Common raven	<i>Corvus corax</i>	no
Gray jay	<i>Perisoreus canadensis</i>	no
Pinyon jay	<i>Gymnorhinus cyanocephalus</i>	no
Scrub jay	<i>Aphelocoma coerulescens</i>	no
Steller's jay	<i>Cyanocitta stelleri</i>	no
Black-capped chickadee	<i>Parus atricapillus</i>	no
Boreal chickadee	<i>Parus hudsonicus</i>	no
Mountain chickadee	<i>Parus gambeli</i>	no
Plain titmouse	<i>Parus inornatus</i>	no
Red-breasted nuthatch	<i>Sitta canadensis</i>	no
Bewick's wren	<i>Thryomanes bewickii</i>	no

Table 5. Vertebrates Not Used in the Evaluation of Alternatives. (continued)

Common name	Scientific name	Evaluation ¹
Canyon wren	<i>Catherpes mexicanus</i>	no
House wren	<i>Troglodytes aedon</i>	no
Marsh wren	<i>Cistothorus palustris</i>	no
Rock wren	<i>Salpinctes obsoletus</i>	no
American dipper	<i>Cinclus mexicanus</i>	no
American robin	<i>Turdus migratorius</i>	no
Blue-gray gnatcatcher	<i>Poliophtila caerulea</i>	no
Hermit thrush	<i>Catharus guttatus</i>	no
Mountain bluebird	<i>Sialia currucoides</i>	no
Ruby-crowned kinglet	<i>Regulus calendula</i>	no
Swainson's thrush	<i>Catharus ustulatus</i>	no
Townsend's solitaire	<i>Myadestes townsendi</i>	no
Wrentit	<i>Chamaea fasciata</i>	no
Brown thrasher	<i>Toxostoma rufum</i>	no
Gray catbird	<i>Dumetella carolinensis</i>	no
Northern mockingbird	<i>Mimus polyglottos</i>	no
American pipit	<i>Anthus rubescens</i>	no
Sprague's pipit	<i>Anthus spragueii</i>	no
Bohemian waxwing	<i>Bombycilla garrulus</i>	no
Cedar waxwing	<i>Bombycilla cedrorum</i>	no
Phainopepla	<i>Phainopepla nitens</i>	no
Northern shrike	<i>Lanius excubitor</i>	no
European starling	<i>Sturnus vulgaris</i>	no
Solitary vireo	<i>Vireo solitarius</i>	no
Warbling vireo	<i>Vireo gilvus</i>	no
American tree sparrow	<i>Spizella arborea</i>	no
Baird's sparrow	<i>Ammodramus bairdii</i>	no
Bay-breasted warbler	<i>Dendroica castanea</i>	no
Black-and-white warbler	<i>Mniotilta varia</i>	no
Black-headed grosbeak	<i>Pheucticus melanocephalus</i>	no
Black-throated blue warbler	<i>Dendroica caerulescens</i>	no
Black-throated gray warbler	<i>Dendroica nigrescens</i>	no
Blackburnian warbler	<i>Dendroica fusca</i>	no
Blackpoll warbler	<i>Dendroica striata</i>	no
Blue grosbeak	<i>Guiraca caerulea</i>	no
California towhee	<i>Pipilo crissalis</i>	no
Chestnut-collared longspur	<i>Calcarius ornatus</i>	no
Chestnut-sided warbler	<i>Dendroica pensylvanica</i>	no
Chipping sparrow	<i>Spizella passerina</i>	no
Common grackle	<i>Quiscalus quiscula</i>	no
Common yellowthroat	<i>Geothlypis trichas</i>	no
Dark-eyed junco	<i>Junco hyemalis</i>	no
Dickcissel	<i>Spiza americana</i>	no
Golden-crowned sparrow	<i>Zonotrichia atricapilla</i>	no
Great-tailed grackle	<i>Quiscalus mexicanus</i>	no
Green-tailed towhee	<i>Pipilo chlorurus</i>	no
Harris' sparrow	<i>Zonotrichia querula</i>	no
House sparrow	<i>Passer domesticus</i>	no
Indigo bunting	<i>Passerina cyanea</i>	no
Lapland longspur	<i>Calcarius lapponicus</i>	no
Le conte's sparrow	<i>Ammodramus leconteii</i>	no
Lincoln's sparrow	<i>Melospiza lincolnii</i>	no
Macgillivray's warbler	<i>Oporornis tolmiei</i>	no
Magnolia warbler	<i>Dendroica magnolia</i>	no
Mccown's longspur	<i>Calcarius mccownii</i>	no
Nashville warbler	<i>Vermivora ruficapilla</i>	no
Northern oriole	<i>Icterus galbula</i>	no
Northern parula	<i>Parula americana</i>	no

Table 5. Vertebrates Not Used in the Evaluation of Alternatives. (continued)

Common name	Scientific name	Evaluation ¹
Northern waterthrush	<i>Seiurus noveboracensis</i>	no
Orange-crowned warbler	<i>Vermivora celata</i>	no
Ovenbird	<i>Seiurus aurocapillus</i>	no
Painted redstart	<i>Myioborus pictus</i>	no
Palm warbler	<i>Dendroica palmarum</i>	no
Red-winged blackbird	<i>Agelaius phoeniceus</i>	no
Rose-breasted grosbeak	<i>Pheucticus ludovicianus</i>	no
Rufous-sided towhee	<i>Pipilo erythrophthalmus</i>	no
Rusty blackbird	<i>Euphagus carolinus</i>	no
Scarlet tanager	<i>Piranga olivacea</i>	no
Scott's oriole	<i>Icterus parisorum</i>	no
Snow bunting	<i>Plectrophenax nivalis</i>	no
Song sparrow	<i>Melospiza melodia</i>	no
Summer tanager	<i>Piranga rubra</i>	no
Swamp sparrow	<i>Melospiza georgiana</i>	no
Tennessee warbler	<i>Vermivora peregrina</i>	no
Townsend's warbler	<i>Dendroica townsendi</i>	no
Western tanager	<i>Piranga ludoviciana</i>	no
White-crowned sparrow	<i>Zonotrichia leucophrys</i>	no
White-throated sparrow	<i>Zonotrichia albicollis</i>	no
Yellow-headed blackbird	<i>Xanthocephalus xanthocephalus</i>	no
Yellow-rumped warbler	<i>Dendroica coronata</i>	no
American goldfinch	<i>Carduelis tristis</i>	no
Cassin's finch	<i>Carpodacus cassinii</i>	no
Common redpoll	<i>Carduelis flammea</i>	no
Evening grosbeak	<i>Coccothraustes vespertinus</i>	no
Hoary redpoll	<i>Carduelis hornemanni</i>	no
House finch	<i>Carpodacus mexicanus</i>	no
Lesser goldfinch	<i>Carduelis psaltria</i>	no
Pine grosbeak	<i>Pinicola enucleator</i>	no
Purple finch	<i>Carpodacus purpureus</i>	no
Red crossbill	<i>Loxia curvirostra</i>	no
Savannah sparrow	<i>Passerculus sandwichensis</i>	no
Mammals		
Virginia opossum	<i>Didelphis virginiana</i>	no
Masked shrew	<i>Sorex cinereus</i>	no
Merriam's shrew	<i>Sorex merriami</i>	no
Montane shrew	<i>Sorex monticolus</i>	no
Trowbridge's shrew	<i>Sorex trowbridgii</i>	no
Vagrant shrew	<i>Sorex vagrans</i>	no
Broad-footed mole	<i>Scapanus latimanus</i>	Fine
Coast mole	<i>Scapanus orarius</i>	no
Shrew-mole	<i>Neurotrichus gibbsii</i>	Fine
Big brown bat	<i>Eptesicus fuscus</i>	no
California myotis	<i>Myotis californicus</i>	no
Little brown myotis	<i>Myotis lucifugus</i>	no
Western pipistrelle	<i>Pipistrellus hesperus</i>	no
Brazilian free-tailed bat	<i>Tadarida brasiliensis</i>	Fine
American pika	<i>Ochotona princeps</i>	no
Black-tailed jackrabbit	<i>Lepus californicus</i>	no
Eastern cottontail	<i>Sylvilagus floridanus</i>	no
Mountain cottontail	<i>Sylvilagus nuttallii</i>	no
Snowshoe hare	<i>Lepus americanus</i>	no
White-tailed jackrabbit	<i>Lepus townsendii</i>	no
Mountain beaver	<i>Aplodontia rufa</i>	Fine
Belding's ground squirrel	<i>Spermophilus beldingi</i>	no
California ground squirrel	<i>Spermophilus beecheyi</i>	no

Table 5. Vertebrates Not Used in the Evaluation of Alternatives. (continued)

Common name	Scientific name	Evaluation ¹
Cascade golden-mantled ground squirrel	<i>Spermophilus saturatus</i>	no
Cliff chipmunk	<i>Tamias dorsalis</i>	Fine
Columbian ground squirrel	<i>Spermophilus columbianus</i>	no
Douglas' squirrel	<i>Tamiasciurus douglasii</i>	no
Eastern fox squirrel	<i>Sciurus niger</i>	no
Golden-mantled ground squirrel	<i>Spermophilus lateralis</i>	no
Hoary marmot	<i>Marmota caligata</i>	no
Least chipmunk	<i>Tamias minimus</i>	no
Red squirrel	<i>Tamiasciurus hudsonicus</i>	no
Red-tailed chipmunk	<i>Tamias ruficaudus</i>	no
Townsend's ground squirrel	<i>Spermophilus townsendii</i>	no
Uinta chipmunk	<i>Tamias umbrinus</i>	Fine
Yellow-bellied marmot	<i>Marmota flaviventris</i>	no
Yellow-pine chipmunk	<i>Tamias amoenus</i>	no
Botta's pocket gopher	<i>Thomomys bottae</i>	Fine
Brushprairie pocket gopher	<i>Thomomys talpoides douglasi</i>	Fine
Northern pocket gopher	<i>Thomomys talpoides</i>	no
Townsend's pocket gopher	<i>Thomomys townsendii</i>	no
Western pocket gopher	<i>Thomomys mazama</i>	no
White salmon pocket gopher	<i>Thomomys talpoides limosus</i>	Fine
California kangaroo rat	<i>Dipodomys californicus</i>	no
Chisel-toothed kangaroo rat	<i>Dipodomys microps</i>	no
Dark kangaroo mouse	<i>Microdipodops megacephalus</i>	no
Great basin pocket mouse	<i>Perognathus parvus</i>	no
Little pocket mouse	<i>Perognathus longimembris</i>	no
Ord's kangaroo rat	<i>Dipodomys ordii</i>	no
Beaver	<i>Castor canadensis</i>	no
Black rat	<i>Rattus rattus</i>	no
Bushy-tailed woodrat	<i>Neotoma cinerea</i>	no
Canyon mouse	<i>Peromyscus crinitus</i>	no
Columbian mouse	<i>Peromyscus keenii</i>	no
Common muskrat	<i>Ondatra zibethicus</i>	no
Creeping vole	<i>Microtus oregoni</i>	no
Deer mouse	<i>Peromyscus maniculatus</i>	no
Desert woodrat	<i>Neotoma lepida</i>	no
Dusky-footed woodrat	<i>Neotoma fuscipes</i>	Fine
Heather vole	<i>Phenacomys intermedius</i>	no
House mouse	<i>Mus musculus</i>	no
Long-tailed vole	<i>Microtus longicaudus</i>	no
Meadow vole	<i>Microtus pennsylvanicus</i>	no
Montane vole	<i>Microtus montanus</i>	no
Northern grasshopper mouse	<i>Onychomys leucogaster</i>	no
Norway rat	<i>Rattus norvegicus</i>	no
Pinyon mouse	<i>Peromyscus truei</i>	Fine
Potholes meadow vole	<i>Microtus pennsylvanicus kincaidi</i>	Fine
Southern red-backed vole	<i>Clethrionomys gapperi</i>	no
Western harvest mouse	<i>Reithrodontomys megalotis</i>	no
Western red-backed vole	<i>Clethrionomys californicus</i>	no
Pacific jumping mouse	<i>Zapus trinotatus</i>	Fine
Western jumping mouse	<i>Zapus princeps</i>	no
Common porcupine	<i>Erethizon dorsatum</i>	no
Nutria	<i>Myocastor coypus</i>	no
Common gray fox	<i>Urocyon cinereoargenteus</i>	Fine
Coyote	<i>Canis latrans</i>	no
Red fox	<i>Vulpes vulpes</i>	no
Black bear	<i>Ursus americanus</i>	no
Common raccoon	<i>Procyon lotor</i>	no
American badger	<i>Taxidea taxus</i>	no

Table 5. Vertebrates Not Used in the Evaluation of Alternatives. (continued)

Common name	Scientific name	Evaluation ¹
Ermine	<i>Mustela erminea</i>	no
Long-tailed weasel	<i>Mustela frenata</i>	no
Mink	<i>Mustela vison</i>	no
Northern river otter	<i>Lutra canadensis</i>	no
Striped skunk	<i>Mephitis mephitis</i>	no
Western spotted skunk	<i>Spilogale gracilis</i>	no
Bobcat	<i>Lynx rufus</i>	no
Mountain lion	<i>Felis concolor</i>	no
Feral horse	<i>Equus caballus</i>	no
Black-tailed deer	<i>Odocoileus hemionus columbianus</i>	no
Moose	<i>Alces alces</i>	no
Mule deer	<i>Odocoileus hemionus</i>	no
Rocky mountain elk	<i>Cervus elaphus nelsonii</i>	no
White-tailed deer	<i>Odocoileus virginianus</i>	no
American bison	<i>Bos bison</i>	no
Reptiles		
Northern alligator lizard	<i>Elgaria coerulea</i>	no
Southern alligator lizard	<i>Elgaria multicarinata</i>	no
Desert horned lizard	<i>Phrynosoma platyrhinos</i>	no
Sagebrush lizard	<i>Sceloporus graciosus graciosus</i>	no
Short-horned lizard	<i>Phrynosoma douglassii</i>	no
Side-blotched lizard	<i>Uta stansburiana</i>	no
Western fence lizard	<i>Sceloporus occidentalis</i>	no
Western skink	<i>Eumeces skiltonianus</i>	no
Plateau striped whiptail	<i>Cnemidophorus velox</i>	no
Western whiptail	<i>Cnemidophorus tigris</i>	no
Gopher snake	<i>Pituophis catenifer</i>	no
Night snake	<i>Hypsiglena torquata</i>	no
Racer	<i>Coluber constrictor</i>	no
Ringneck snake	<i>Diadophis punctatus</i>	no
Western terrestrial garter snake	<i>Thamnophis elegans</i>	no
Western rattlesnake	<i>Crotalus viridis</i>	no

¹ Evaluation: "Fine" - recommended for fine-scale analysis by Forests or BLM units based on distribution; "no" - no panel analysis done, and not recommended for fine-scale analysis.

Changes in species classification between Draft EISs and Supplemental Draft EIS

Species classified as fine-scale by Lehmkuhl et al. (1997) that Wisdom et al. (In Press) classified as broad-scale:

The following species were classified as broad-scale in Wisdom et al. (In Press) because their habitats could be identified based on the 247-acre pixel size: longnose snake, ground snake, California mountain kingsnake, black-throated sparrow, hermit warbler, clay-colored sparrow, Preble's shrew, pygmy shrew, Yuma myotis, Idaho ground squirrel, white-tailed antelope squirrel, Uinta ground squirrel, western gray squirrel, and kit fox-

The classification of the following species was changed because it is ranked as G2 by the Natural Heritage program; Washington ground squirrel

Species classified for no additional evaluation by Lehmkuhl et al. (1997) that Wisdom et al. (In Press) classified as broad-scale:

The classification of the following species was changed because of concerns about the habitat or population status among the Source Habitat panelists: short-eared owl, brown creeper, golden-crowned kinglet, varied thrush, lark bunting, pine siskin, pallid bat, Wyoming ground squirrel, sagebrush vole, mountain goat, Rocky Mountain bighorn sheep

The classification of the following species was changed because it had less than 90 probability points in Outcomes 1, 2, and 3 as determined by Lehmkuhl et al. (1997): gray-crowned rosy finch

The classification of the following species was changed because of concerns about the effects on other species among the Source Habitat panelists: brown-headed cowbird

Species classified for no additional evaluation by Lehmkuhl et al. (1997) that Wisdom et al. (In Press) classified as fine-scale:

The classification of the following species was changed because of concerns about the habitat or population status among the Source Habitat panelists: American redstart, fox sparrow, Virginia's warbler, and water vole

Species classified for broad-scale evaluation by Lehmkuhl et al. (1997) that Wisdom et al. (In Press) classified for no additional evaluation:

The classification of the following species was changed because they had at least 90 probability points in Outcomes 1, 2, and 3 as determined by Lehmkuhl et al. (1997): Cooper's hawk, Swainson's hawk, northern pygmy-owl, northern saw-whet owl, hairy woodpecker, horned lark, chipping sparrow, green-tailed towhee, red-winged blackbird, rufous-sided towhee, western tanager, white-tailed jackrabbit, desert horned lizard, sagebrush lizard, short-horned lizard, night snake

The classification of the following species was changed by the Source Habitat panelists because it is an invader to the area: barred owl

The classification of the following species was changed because there is limited information on their use of the project area and their range is, in large part, outside the project area: merlin and band-tailed pigeon

Species classified for riparian/wetland evaluation by Lehmkuhl et al. (1997) that Wisdom et al. (In Press) classified for no additional evaluation:

The classification of the following species was changed because they had at least 90 probability points in Outcomes 1, 2, and 3 as determined by Lehmkuhl et al. (1997); black-bellied plover, semipalmated plover, Baird's sandpiper, dunlin, greater yellowlegs, least sandpiper, lesser yellowlegs, long-billed dowitcher, marbled godwit, pectoral sandpiper, red-necked phalarope, sanderling, semipalmated sandpiper, western sandpiper

The classification of the following species was changed because FS/BLM management activities will have little effect on their habitat: California gull and ring-billed gull

Table 6. Effects of Road-associated Factors on Habitats and Populations of Broad-scale Species of Focus.

Species	Snag Reduction	Downlog Reduction	Neg.Edge Effects	Over- Hunting	Over- Trapping	Poachin	Collection	Harrassment	Collisions	Movement Barrier	Displacement	Chronic Negative Interactions
1 Pygmy nuthatch	A		B									
1 White-breasted nuthatch	A		B									
1 White-headed woodpecker	A		B									
2 Lewis' woodpecker (migrant population)	A							3				
3 Western gray squirrel			B		60						60	
4 Blue grouse (winter)												
5 Fisher	A	A	B		10, 11				12*		10*	
5 Flammulated owl	A		B									
5 N. goshawk (summer)			B									
5 American marten	A	A	B		4*, 5, 6							
6 Brown creeper	A		B									
6 Chestnut-backed chickadee	A		B									
6 Golden-crowned kinglet			B									
6 Hammond's flycatcher			B									
6 Hoary bat												
6 Pileated woodpecker	A	A	B									
6 Silver-haired bat	A											
6 Vaux's swift	A		B									
6 Varied thrush												
6 Williamson's sapsucker	A		B									
6 Winter wren	A	A	B									
7 Boreal owl	A		B									
8 Great gray owl	A											
9 Black-backed woodpecker	A		B									
10 Olive-sided flycatcher												
11 Three-toed woodpecker	A		B						69*			
11 White-winged crossbill												
12 Woodland caribou			B		13*				13*			

Table 6. Effects of Road-associated Factors on Habitats and Populations of Broad-scale Species of Focus. (continued)

Species	Snag Reduction	Downlog Reduction	Neg.Edge Effects	Over-Hunting	Over-Trapping	Poachin	Collection	Harrassment	Collisions	Movement Barrier	Displacement	Chronic Negative Interactions
13 N. Flying squirrel	A	A	B									
14 Hermit warbler			B									
15 Pygmy shrew										C		
15 Wolverine	A		47, 55		31*, 32		68					
16 Lynx		A						33				
17 Blue grouse (summer)								34				
17 Mountain quail								34				
18 Lazuli bunting												
19 Gray wolf			18*	20, 21,		16*, 17, 22, 72	21, 22*, 72		17*, 20*, 19*, 23*, 24*, 26*, 72	17, 20,	15*, 18*, 72	16, 19*, 22, 70*, 72
19 Grizzly bear						24, 25, 26, 14*, 72					14*, 25*, 28*, 29*, 30*, 72*	*24, 14*, 30*, 72
20 Mountain goat				40		C		39, 41	38*		39*	
21 Long-eared owl												
22 Cal. bighorn sheep				C		C		66			C	
22 Rocky Mt. bighorn sheep				65		65		44			42, 43, 57	
23 Broad-tailed hummingbird												
23 Rufous hummingbird												
24 Black-chinned hummingbird												
24 California mt. Kingsnake							35, 67		36*			
24 Sharptail snake		A					67		36*			
25 N. goshawk (winter)												
26 Fringed myotis	A					7, 71		7, 71				
26 Long-eared myotis	A					7, 71		7, 71				
26 Long-legged myotis	A					7, 71		7, 71				
26 Yuma myotis						7, 71		7, 71				
27 Townsend's big-eared bat						7, 8, 71		7, 8, 71			7, 8	
27 Pine siskin									69*			

[illegible]

Table 6. Effects of Road-associated Factors on Habitats and Populations of Broad-scale Species of Focus. (continued)

Species	Snag Reduction	Downlog Reduction	Neg.Edge Effects	Over- Hunting	Over- Trapping	Poachin	Collection	Harrassment	Collisions	Movement Barrier	Displacement	Chronic Negative Interactions
37 Clay-colored sparrow												
37 Grasshopper sparrow												
37 Idaho ground squirrel						58, 59						
38 Black rosy finch												56
38 Gray-crowned rosy finch												56
39 Lewis' woodpecker (resident)	1, 2											
40 Brown-headed cowbird												

A = Species depends on snags, down logs, or both structures to meet life requisites (Thomas and others 1979, volume 3, appendix 1, table 2); consequently, the species presumably is affected by a reduction in density of these structures and the documented linkage of this effect with roads (Hann and others 1997, Quigley and others 1996).

B = Species presumably responds negatively to openings or linear edges created by roads, based on its dependence on closed-canopy habitats and lack of dependence on disturbed or contrasting habitats of openings and closed-canopy forests (such as "habitat-interior" species [Marcot and others 1994]); additional research is needed, however, to validate the presumption.

C = Factor is presumed to have a negative effect on the species, based on documented effects of the factor on species of similar life history or taxa. For poaching or over-hunting of large mammals, documented effects include Cole et al. (1998), Dood and others (1986), Knight and others (1988), McLellan and Shackleton (1988), Mech (1970), Scott and Servheen (1985), Stelfox (1971), Yoakum (1978). For over-harvest and poaching of ground squirrels ("plinking"), effects are described by Ingles (1965). For collisions of reptiles with vehicles, documented effects are summarized by Vestjens (1973) and Bennett (1991). For roads as barriers to movements of small mammals, documented effects are described by Mader (1984), Swihart and Slade (1984), and Merriam (1989). For displacement of all taxa, documented effects are summarized by Bennett (1991). For any other effects on taxa marked with a "C" but not explicitly identified here, documented effects are summarized by Bennett (1991). Presumed effects of factors marked with a "C" require additional research to validate the presumption.

* = Cited reference makes a direct link with roads as a facilitator of the factor's effect. Cited references not marked by an asterisk establish the factor as a problem for the species but do not address whether roads facilitate the factor's effect.

Table 6. Effects of Road-associated Factors on Habitats and Populations of Broad-scale Species of Focus. (continued)

References:

1. Hann and others 1997;
2. Quigley and others 1996;
3. Bock 1970;
4. Hodgman and others 1994;
5. Fortin and Cantin 1994;
6. Thompson 1994;
7. Nagorsen and Brigham 1993;
8. Idaho State Conservation Effort 1995;
9. Autenrieth 1978;
10. Coulter 1966;
11. Jones 1991;
12. Paragi and others 1994;
13. Scott and Servheen 1985;
14. Mace and others 1996;
15. Thurber and others 1994;
16. Mech 1970;
17. Van Ballenberghe and others 1975;
18. Mladenoff and others 1995;
19. Thiel 1985;
20. Fritts and others 1985;
21. Pletscher and others 1997;
22. Bangs and Fritts 1996;
23. Singer 1979;
24. Knight and others 1988;
25. McLellan and Shackleton 1988;
26. Dood and others 1986;
27. Yoakum 1978;
28. Kasworm and Manley 1990;
29. Mattson and others 1987;
30. Mattson and others 1992;
31. Bailey and others 1986;
32. Parker and others 1983;
33. Koehler and Brittell 1990;
34. ICBEMP 1996j;
35. ICBEMP 1996a;
36. Brown and others 1995;
37. Marti and Marks 1989;
38. Singer 1978;
39. Chadwick 1973;
40. Johnson 1983;
41. Joslin 1986;
42. Hamilton and others 1982;
43. Hicks and Elder 1979;
44. MacArthur and others 1979;
45. Bruns 1977;
46. Helms 1978;
47. Hornocker and Hash 1981;
48. Green and Anthony 1989;
49. Bechard and Schmutz 1995;
50. Lokemoen and Duebbert 1976;
51. Olendorff and Stoddart 1974;
52. Lanyon 1994;
53. Giesen and Connelly 1993;
54. Tirhi 1995;
55. Banci 1994;
56. Lehmkuhl and others 1997;
57. Geist 1971;
58. Moroz 1995;
59. USDA Forest Service and USDI Fish and Wildlife Service 1996;
60. Washington Department of Wildlife 1993b;
61. Yosef 1996;
62. Flickinger 1995;
63. DeStefano 1990;
64. Blumton 1989;
65. Stelfox 1971;
66. Taylor and others 1993;
67. Nussbaum and others 1983;
68. Copeland 1996;
69. Ehrlich and others 1988;
70. Mech 1973;
71. Tuttle 1988;
72. Frederick 1991;
73. Howard 1975;
74. Harmata 1981;
75. Gilmer and others 1985;
76. Clark 1975;
77. Holt 1992.

Table 7. Broadly Distributed Plants.

Taxa	Species	Rank*	Occurrences on Different Administrative Units
N ^b	<i>Dicranella heteromalla</i>	G?	2
N	<i>Texosporium sancti-jacobi</i>	G2	2
V ^c	<i>Adiantum aleuticum</i> subalpine ecotype	G5?T2Q	3
V	<i>Allium madidum</i>	G3	2
V	<i>Allium tolmiei</i> var. <i>persimile</i>	G4T3	3
V	<i>Arabis fecunda</i>	G2	3
V	<i>Arabis sparsiflora</i> var. <i>atrorubens</i>	G5T3	2
V	<i>Artemisia ludoviciana</i> spp. <i>estesii</i>	G5T2	2
V	<i>Astragalus amblytropis</i>	G3	2
V	<i>Astragalus amnis-amissi</i>	G3	2
V	<i>Astragalus aquilonius</i>	G3	2
V	<i>Astragalus arrectus</i>	G2G3	2
V	<i>Astragalus diversifolius</i>	G3	2
V	<i>Astragalus jejunus</i> var. <i>jejunus</i>	G3G4T3?	2
V	<i>Astragalus paysonii</i>	G3	6
V	<i>Astragalus peckii</i>	G3	3
V	<i>Astragalus tegetarioides</i>	G3	3
V	<i>Astragalus vexilliflexus</i> var. <i>nubilus</i>	G4T2	3
V	<i>Bolandra oregana</i>	G3	3
V	<i>Botrychium ascendens</i>	G3	8
V	<i>Botrychium campestre</i>	G3	2
V	<i>Botrychium crenulatum</i>	G3	9
V	<i>Botrychium hesperium</i>	G3	3
V	<i>Botrychium lineare</i>	G1	2
V	<i>Botrychium montanum</i>	G3	13
V	<i>Botrychium paradoxum</i>	G2	10
V	<i>Botrychium pedunculosum</i>	G2?	4
V	<i>Botrychium pumicola</i>	G3	4
V	<i>Calamagrostis tweedyi</i>	G2G3	4
V	<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i>	G3T3	4
V	<i>Calochortus longebarbatus</i> var. <i>peckii</i>	G3T3	2
V	<i>Calochortus macrocarpus</i> var. <i>maculosus</i>	G5T2	4
V	<i>Calochortus nitidus</i>	G3	3
V	<i>Cardamine constancei</i>	G3	4
V		G3?	2
V	<i>Castilleja chlorotica</i>	G3	3
V	<i>Castilleja covilleana</i>	G3G4	2
V	<i>Chaenactis thompsonii</i>	G2G3	2
V	<i>Chrysothamnus parryi</i> spp. <i>montanus</i>	G5T1	2
V	<i>Collomia mazama</i>	G3	3
V	<i>Corydalis caseana</i> spp. <i>hastata</i>	G5T3	5
V	<i>Cymopterus douglassii</i>	G3	2
V	<i>Dasynotus daubenmirei</i>	G3	2
V	<i>Delphinium viridescens</i>	G2	2
V	<i>Douglasia idahoensis</i>	G2	2
V	<i>Draba globosa</i>	G3	5
V	<i>Draba trichocarpa</i>	G1G2	2
V	<i>Erigeron engelmannii</i> var. <i>davisii</i>	G5T2	2
V	<i>Erigeron lackschewitzii</i>	G3Q	3
V	<i>Erigeron salmonensis</i>	G3	2
V	<i>Eriogonum capistratum</i> var. <i>welshii</i>	G4T2	2

Table 7. Broadly Distributed Plants. (continued)

Taxa	Species	Rank*	Occurrences on Different Administrative Units
V	<i>Eriogonum meledonum</i>	G1	2
V	<i>Eriogonum prociduum</i>	G3	2
V	<i>Galium serpenticum</i> spp. <i>warnerense</i>	G4G5T2Q	2
V	<i>Grindelia howellii</i>	G3	4
V	<i>Hackelia davisii</i>	G3	4
V	<i>Halimolobos perplexa</i> var. <i>perplexa</i>	G4T3	3
V	<i>Haplopappus hirtus</i> var. <i>sonchifolius</i>	G4G5T3?	2
V	<i>Haplopappus insecticuriis</i>	G3	2
V	<i>Haplopappus radiatus</i>	G3	2
V	<i>Howellia aquatilis</i>	G2	2
V	<i>Iliamna longisepala</i>	G3	2
V	<i>Juncus tweedyi</i>	G3	2
V	<i>Lepidium papilliferum</i>	G2	2
V	<i>Leptodactylon pungens</i> spp. <i>hazeliae</i>	G5T1	4
V	<i>Lesquerella carinata</i> var. <i>languida</i>	G3G4T1	2
V	<i>Lesquerella paysonii</i>	G3	5
V	<i>Lomatium geyeri</i>	G3G4	2
V	<i>Lomatium salmoniflorum</i>	G3	2
V	<i>Luina serpentina</i>	G2	2
V	<i>Mimulus patulus</i>	G2Q	3
V	<i>Mirabilis macfarlanei</i>	G2	3
V	<i>Oxytropis besseyi</i> var. <i>salmonensis</i>	G5T3	2
V	<i>Oxytropis campestris</i> var. <i>columbiana</i>	G5T3	2
V	<i>Penstemon barrettiae</i>	G2	3
V	<i>Penstemon glaucinus</i>	G3	3
V	<i>Penstemon idahoensis</i>	G1	2
V	<i>Penstemon lemhiensis</i>	G3	5
V	<i>Penstemon peckii</i>	G3	2
V	<i>Perideridia erythrorhiza</i>	G1	2
V	<i>Phacelia lyallii</i>	G3	4
V	<i>Phacelia minutissima</i>	G3	4
V	<i>Phlox kelseyi</i> var. <i>missoulensis</i>	G2	4
V	<i>Physaria didymocarpa</i> var. <i>lyrata</i>	G5T1	2
V	<i>Physaria integrifolia</i> var. <i>monticola</i>	G3G4T2Q	2
V	<i>Plagiobothrys salsus</i>	G3G4	2
V	<i>Poa abbreviata</i> spp. <i>marshii</i>	G5T1	3
V	<i>Primula wilcoxiana</i>	G3	2
V	<i>Ribes oxyacanthoides</i> spp. <i>irriguum</i>	G5T3T4	2
V	<i>Rorippa columbiae</i>	G3	2
V	<i>Rubus bartonianus</i>	G2	4
V	<i>Saussurea densa</i>	G3G5	2
V	<i>Saxifraga tempestiva</i>	G2	4
V	<i>Scribneria bolanderi</i>	G3G4	2
V	<i>Sidalcea oregana</i> var. <i>calva</i>	G5T1	2
V	<i>Silene seelyi</i>	G1G2	2
V	<i>Silene spaldingii</i>	G2	2
V	<i>Sisyrinchium sarmentosum</i>	G2	2
V	<i>Sisyrinchium septentrionale</i>	G3G4	2
V	<i>Sullivantia hapemanii</i> var. <i>hapemanii</i>	G3T3	2
V	<i>Synthyris platycarpa</i>	G3	2
V	<i>Talinum sediforme</i>	G2G3	3

Table 7. Broadly Distributed Plants. (continued)

Taxa	Species	Rank*	Occurrences on Different Administrative Units
V	<i>Tauschia tenuissima</i>	G3	2
V	<i>Thelypodium brachycarpum</i>	G3	2
V	<i>Thelypodium eucosmum</i>	G2	3
V	<i>Thelypodium repandum</i>	G3	2
V	<i>Thlaspi idahoense</i> var. <i>aileeniae</i>	G4T3	2
V	<i>Thlaspi parviflorum</i>	G3	5
V	<i>Trifolium douglasii</i>	G3G4	2
V	<i>Trifolium eriocephalum</i> spp. <i>arcuatum</i>	G4T3?	2
V	<i>Trifolium leibergii</i>	G2	2
V	<i>Trifolium thompsonii</i>	G2	2
V	<i>Waldsteinia idahoensis</i>	G3	4

* See Table 4 in this appendix for an explanation of the Rank

^b N-Nonvascular plant

^c V-Vascular plant

Table 8. Vascular Plants (G1-G3) and Non-vascular Plants (S1-S3).

Taxa	Scientific Name	WA	OR	MT	ID
N	<i>Aloina bifrons</i>		X		
N	<i>Aspicilia fruticulosa</i>				X
N	<i>Bryoria subdivergens</i>			X	
N	<i>Bryoria tortuosa</i>	X			
N	<i>Bryum calobryoides</i>				X
N	<i>Bryum dichotomum</i>			X	
N	<i>Buxbaumia aphylla</i>				X
N	<i>Buxbaumia piperi</i>				X
N	<i>Calliergon trifarium</i>		X		
N	<i>Catapyrenium congestum</i>				X
N	<i>Cladonia andereggii</i>				X
N	<i>Cladonia imbricarica</i>				X
N	<i>Cladonia luteoalba</i>				X
N	<i>Cladonia transcendens</i>				X
N	<i>Cladonia unicalis</i>				X
N	<i>Cladonia verruculosa</i>				X
N	<i>Collema curtisporum</i>				X
N	<i>Collema furfuraceum</i>				X
N	<i>Dermatocarpon lorenzianum</i>				X
N	<i>Dermatocarpon luridum</i>	X			
N	<i>Desmatodon heimii</i>			X	
N	<i>Dicranella heteromalla</i>			X	
N	<i>Dicranum acutifolium</i>			X	
N	<i>Dicranum fragilifolium</i>			X	
N	<i>Didymodon vinealis</i> var. <i>brachyphyllus</i>			X	
N	<i>Diphasiastrum sitchense</i>				X
N	<i>Eucladium verticillatum</i>			X	
N	<i>Eurhynchium pulchellum</i> var. <i>barnesii</i>			X	
N	<i>Fissidens fontanus</i>			X	
N	<i>Grimmia incurva</i>			X	
N	<i>Grimmia mollis</i>			X	
N	<i>Helodium blandowii</i>				X
N	<i>Heterotheca barbata</i>				X
N	<i>Hookeria lucens</i>				X
N	<i>Hygrohypnum cochlearifolium</i>			X	
N	<i>Hypnum recurvatum</i>			X	
N	<i>Hypogymnia apinnata</i>				X
N	<i>Hypogymnia entermorpha</i>				X
N	<i>Kiaeria blyttii</i>			X	
N	<i>Lobaria hallii</i>				X
N	<i>Lobaria linita</i>				X
N	<i>Lobaria scrobiculata</i>				X
N	<i>Meesia longiseta</i>				X
N	<i>Meesia triquetra</i>			X	
N	<i>Meesia uliginosa</i>			X	
N	<i>Neckera douglasii</i>			X	
N	<i>Oligotrichum aligerum</i>			X	
N	<i>Orthotrichum hallii</i>				X
N	<i>Orthotrichum holzingeri</i>				X
N	<i>Orthotrichum praemorsum</i>			X	
N	<i>Paraleucobryum longifolium</i>			X	
N	<i>Peletolepis quadrata</i>		X		

Table 8. Vascular Plants (G1-G3) and Non-vascular Plants (S1-S3). (continued)

Taxa	Scientific Name	WA	OR	MT	ID
N	<i>Pentagramma iriangularis</i> spp. <i>triangularis</i>				X
N	<i>Phascum cuspidatum</i>			X	
N	<i>Physcia sempinnata</i>				X
N	<i>Physcomitrium pyriforme</i>			X	
N	<i>Pilophorus acicularis</i>				X
N	<i>Porotrichum bigelovii</i>			X	
N	<i>Pseudocrossidium obtusulum</i>			X	
N	<i>Pseudocrossidium anthrasis</i>				X
N	<i>Pterygoneurum subsessile</i>			X	
N	<i>Ramalina thrausta</i>				X
N	<i>Scorpidium scorpioides</i>			X	
N	<i>Sphaerocarpos hians</i>				X
N	<i>Sphaerocarpos globosus</i>				X
N	<i>Sphagnum centrale</i>			X	
N	<i>Sphagnum compactum</i>			X	
N	<i>Sphagnum contortum</i>			X	
N	<i>Sphagnum fimbriatum</i>			X	
N	<i>Sphagnum magellanicum</i>			X	
N	<i>Sphagnum mendocinum</i>			X	
N	<i>Sphagnum riparium</i>			X	
N	<i>Tayloria serrata</i>				X
N	<i>Texosporium sancti-jacobi</i>	X	X		X
N	<i>Thamnia vermicularis</i>				X
N	<i>Thelovva ocellatum</i>				X
N	<i>Tortula bartramii</i>			X	
N	<i>Tortula norvegica</i>			X	
N	<i>Tortula papillosa</i>			X	
N	<i>Triantha occidentalis</i> spp. <i>brevistyla</i>				X
N	<i>Tritomaria exsectiformis</i>		X		
N	<i>Ulotia curvifolia</i>				X
N	<i>Ulotia megalospora</i>				X
N	<i>Umbilicaria vellea</i>				
N	<i>Usnea sphacelata</i>				
N	<i>xanthoparmelia idahoensis</i>				X
V	<i>Agastache cusickii</i>		X		
V	<i>Allium aaseae</i>				X
V	<i>Allium columbianum</i>			X	
V	<i>Allium constrictum</i>	X			
V	<i>Allium dictyon</i>	X			
V	<i>Allium madidum</i>				X
V	<i>Allium robinsonii</i>		X		
V	<i>Amsinckia carinata</i>		X		
V	<i>Antennaria densifolia</i>			X	
V	<i>Arabis falcifurcata</i>				
V	<i>Arabis lasiocarpa</i>				X
V	<i>Astragalus amblytropis</i>				X
V	<i>Astragalus amnis-amissi</i>				X
V	<i>Astragalus applegatei</i>		X		
V	<i>Astragalus aquilonius</i>				X
V	<i>Astragalus arrectus</i>	X			
V	<i>Astragalus camptopus</i>				X
V	<i>Astragalus colubianus</i>	X			

Table 8. Vascular Plants (G1-G3) and Non-vascular Plants (S1-S3). (continued)

Taxa	Scientific Name	WA	OR	MT	ID
V	<i>Astragalus diversifolius</i>				X
V	<i>Astragalus jejunus</i>				X
V	<i>Astragalus jejunus</i> var. <i>jejunus</i>				X
V	<i>Astragalus scaphoides</i>				X
V	<i>Astragalus sinuatus</i>	X			
V	<i>Astragalus tyghensis</i>		X		
V	<i>Bolandra oregana</i>	X			
V	<i>Botrychium pallidum</i>			X	
V	<i>Botrychium pumicola</i>		X		
V	<i>Botrychium spathulatum</i>			X	
V	<i>Calochortus greenei</i>		X		
V	<i>Camissonia palmeri</i>				X
V	<i>Cardamine constancei</i>				X
V	<i>Carex stenoptila</i>			X	
V	<i>Castilleja cervina</i>			X	
V	<i>Castilleja christii</i>				X
V	<i>Castilleja covilleana</i>			X	
V	<i>Castilleja cryptantha</i>	X			
V	<i>Castilleja fraterna</i>		X		
V	<i>Castilleja oresbia</i>				X
V	<i>Castilleja pulchella</i>				X
V	<i>Castilleja rubida</i>		X		
V	<i>Castilleja thompsonii</i>		X		
V	<i>Caulanthus major</i> var. <i>nevadensis</i>		X		
V	<i>Cetraria subalpina</i>				X
V	<i>Chaenactis thompsonii</i>	X			
V	<i>Collomia macrocalyx</i>	X			
V	<i>Collomia mazama</i>		X		
V	<i>Collomia renacta</i>		X		
V	<i>Cryptantha caespitosa</i>				X
V	<i>Cryptantha hypsophila</i>				X
V	<i>Cryptantha salmonensis</i>				X
V	<i>Cymopterus davisii</i>				X
V	<i>Cymopterus douglassii</i>				X
V	<i>Dasynotus daubenmirei</i>				X
V	<i>Delphinium viridescens</i>	X			
V	<i>Draba argyrea</i>				X
V	<i>Draba globosa</i>				X
V	<i>Draba macounii</i>			X	
V	<i>Draba trichocarpa</i>				X
V	<i>Erigeron basalticus</i>	X			
V	<i>Erigeron lackschewitzii</i>			X	
V	<i>Erigeron piperianus</i>	X			
V	<i>Erigeron radicans</i>				X
V	<i>Erigeron salishii</i>	X			
V	<i>Erigeron salmonensis</i>				X
V	<i>Eriogonum chrysops</i>		X		
V	<i>Eriogonum codium</i>	X			
V	<i>Eriogonum crosbyae</i>		X		
V	<i>Eriogonum cusickii</i>		X		
V	<i>Eriogonum desertorum</i>				X
V	<i>Eriogonum lewisii</i>				

Table 8. Vascular Plants (G1-G3) and Non-vascular Plants (S1-S3). (continued)

Taxa	Scientific Name	WA	OR	MT	ID
V	<i>Eriogonum meledonum</i>				X
V	<i>Eriogonum prociduum</i>		X		
V	<i>Eriogonum</i> spp. Nov. (War Eagle Mountain)				X
V	<i>Gratiola heterosepala</i>		X		
V	<i>Hackelia davisii</i>				X
V	<i>Hackelia</i> spp. Nov. (Sleeping Deer Mountain)				X
V	<i>Hackelia venusta</i>	X			
V	<i>Haplopappus insecticuriis</i>				X
V	<i>Haplopappus integrifolius</i>				X
V	<i>Hymenoxys lemmonii</i>		X		
V	<i>Iliamna logisepala</i>	X			
V	<i>Ipomopsis minutiflora</i>			X	
V	<i>Ivesia rhypara</i> var. <i>shellyi</i>		X		
V	<i>Ivesia shockleyi</i>		X		
V	<i>Juncus kelloggii</i>	X			
V	<i>Juncus tweedyi</i>				X
V	<i>Juncus uncialis</i>	X			
V	<i>Lathyrus grimesii</i>				
V	<i>Leptodactylon glabrum</i>				X
V	<i>Lesquerella carinata</i> var. <i>languida</i>			X	
V	<i>Lesquerella humilis</i>			X	
V	<i>Lesquerella multiceps</i>				X
V	<i>Lesquerella tuplashensis</i>	X			
V	<i>Lomatium erythrocarpum</i>		X		
V	<i>Lomatium geyeri</i>			X	
V	<i>Lomatium greenmanii</i>		X		
V	<i>Lomatium laevigatum</i>	X			
V	<i>Lomatium ochocense</i>		X		
V	<i>Lomatium packardiae</i>				X
V	<i>Lomatium tuberosum</i>	X			
V	<i>Luina serpentina</i>		X		
V	<i>Mentzelia packardiae</i>		X		
V	<i>Mimulus ampliatus</i>				X
V	<i>Musineon lineare</i>				X
V	<i>Myosurus sessilis</i>		X		
V	<i>Oenothera psammophila</i>				X
V	<i>Orthocarpus bracteosus</i>	X			
V	<i>Papaver radicatum</i> spp. <i>kluanense</i>				X
V	<i>Pedicularis rainerensis</i>	X			
V	<i>Penstemon compactus</i>				X
V	<i>Penstemon idahoensis</i>				X
V	<i>Penstemon peckii</i>		X		
V	<i>Periderdia erythrorhiza</i>		X		
V	<i>Petrophyton cinerascens</i>	X			
V	<i>Phacelia inconspicua</i>				X
V	<i>Phacelia lenta</i>	X			
V	<i>Phavelia lyallii</i>				X
V	<i>Phlox idahonis</i>				X
V	<i>Phlox kelseyi</i> var. <i>missoulensis</i>			X	
V	<i>Physaria integrifolia</i>				X
V	<i>Physaria integrifolia</i> var. <i>monticola</i>				X
V	<i>Plagioblthrys salsus</i>		X		

Table 8. Vascular Plants (G1-G3) and Non-vascular Plants (S1-S3). (continued)

Taxa	Scientific Name	WA	OR	MT	ID
V	<i>Primula alcalina</i>				X
V	<i>Primula brodiaeana</i>				X
V	<i>Primula wilcoxiana</i>				X
V	<i>Rubus nigerrimus</i>	X			
V	<i>Salix tweedyi</i>	X			
V	<i>Saussurea densa</i>			X	
V	<i>Saussurea weberi</i>			X	
V	<i>Saxifraga tempestiva</i>			X	
V	<i>Saxifragopsis fragarioides</i>	X			
V	<i>Scirpus rollandii</i>				X
V	<i>Scribneria bolanderi</i>		X		
V	<i>Senecio ertterae</i>		X		
V	<i>Silene seelyi</i>	X			
V	<i>Sisyrinchium sarmentosum</i>	X			
V	<i>Sisyrinchium septentrionale</i>	X			
V	<i>Stephanomeria malheurensis</i>		X		
V	<i>Sullivantia hapemanii</i>				X
V	<i>Sullivantia hapemanii</i> var. <i>hapemanii</i>				X
V	<i>Syntherisma platycarpa</i>				X
V	<i>Talinum sedifforme</i>	X			
V	<i>Tauschia hooveri</i>	X			
V	<i>Thelypodium brachycarpum</i>		X		
V	<i>Thelypodium eucosmum</i>		X		
V	<i>Thelypodium howellii</i> spp. <i>spectabilis</i>		X		
V	<i>Thelypodium paniculatum</i>				X
V	<i>Thelypodium repandum</i>				X
V	<i>Thlaspi parviflorum</i>			X	
V	<i>Trifolium leibergii</i>		X		
V	<i>Trifolium thompsonii</i>	X			
V	<i>Vertrum insolitum</i>	X			

N = nonvascular

V = vascular

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