

Appendix D: Key Ecological Sections for Each Species of Greatest Conservation Need (SGCN) in Idaho. Species are Arranged First by Priority Tiers and Second by Taxonomic Order.

Species of greatest conservation need	Bear Lake	Beaverhead Mountains	Bitterroot Mountains	Blue Mountains	Challis Volcanics	Flathead Valley	Idaho Batholith	Northwestern Basin and Range	Okanogan Highlands	Overthrust Mountains	Owyhee Uplands	Palouse Prairie	Snake River Basalts	Yellowstone Highlands	Number of Sections/SGCN
TIER 1 (43 Species)															
Pacific Lamprey		X	X		X		X					X			5
White Sturgeon (Kootenai River DPS)						X			X						2
Steelhead (Snake River Basin DPS)		X		X	X		X					X			5
Sockeye Salmon (Snake River ESU)		X		X	X		X								4
Chinook Salmon (Snake River fall-run ESU)				X			X					X			3
Chinook Salmon (Snake River spring/summer-run ESU)		X		X	X		X					X			5
Burbot						X			X						2
Columbia Spotted Frog (Great Basin DPS)											X				1
Greater Sage-Grouse	X	X		X	X			X		X	X		X	X	9
Yellow-billed Cuckoo										X	X		X		3
Wolverine	X	X	X		X	X	X		X	X				X	9
Grizzly Bear		X				X			X	X				X	5
Caribou									X						1
Northern Idaho Ground Squirrel				X			X								2
Southern Idaho Ground Squirrel				X							X				2
Banbury Springs Limpet											X				1
Snake River Physa											X		X		2
Pixie Pebblesnail				X											1
Bruneau Hot Springsnail											X				1
Bear Lake Springsnail	X							X		X					3
Bliss Rapids Snail											X		X		2
Marbled Jumping-slug			X				X								2
Magnum Mantleslug			X			X			X						3

Appendix D. Key ecological sections for each SGCN in Idaho. Continued

Species of greatest conservation need	Bear Lake	Beaverhead Mountains	Bitterroot Mountains	Blue Mountains	Challis Volcanics	Flathead Valley	Idaho Batholith	Northwestern Basin and Range	Okanogan Highlands	Overthrust Mountains	Owyhee Uplands	Palouse Prairie	Snake River Basalts	Yellowstone Highlands	Number of Sections/SGCN
Blue-gray Taildropper			X												1
Papillose Taildropper			X												1
Rocky Mountain Axetail			X												1
Marbled Disc				X			X								2
Seven Devils Mountainsnail				X											1
Thin-ribbed Mountainsnail										X					1
Whorled Mountainsnail				X											1
Lava Rock Mountainsnail				X			X								2
Selway Forestsnail			X				X								2
Salmon Oregonian				X			X								2
Mission Creek Oregonian			X									X			2
Cottonwood Oregonian				X											1
Kingston Oregonian			X			X									2
Bruneau Dune Tiger Beetle											X				1
A Click Beetle (<i>Beckerus barri</i>)			X				X								2
A Skiff Beetle (<i>Hydroscapha redfordi</i>)							X								1
Blind Cave Leiodid Beetle													X		1
Morrison's Bumble Bee	X	X	X	X	X	X		X		X	X	X	X		11
Western Bumble Bee	X	X	X	X	X	X	X	X	X	X		X		X	12
Suckley's Cuckoo Bumble Bee	X	X	X	X	X	X	X	X	X	X		X		X	12
TIER 2 (66 species)															
Northern Leatherside Chub								X		X					2
Bear Lake Whitefish	X														1
Bonneville Cisco	X														1
Bonneville Whitefish	X														1
Bear Lake Sculpin	X														1
Western Toad	X	X	X		X	X	X	X	X	X	X	X	X	X	13
Woodhouse's Toad											X				1
Northern Leopard Frog	X		X			X		X	X	X	X		X	X	9
Trumpeter Swan	X									X			X	X	4
Harlequin Duck		X	X		X	X	X		X	X					7
Mountain Quail				X			X								2
Sharp-tailed Grouse	X			X				X		X			X	X	6

Appendix D. Key ecological sections for each SGCN in Idaho. Continued

Species of greatest conservation need	Bear Lake	Beaverhead Mountains	Bitterroot Mountains	Blue Mountains	Challis Volcanics	Flathead Valley	Idaho Batholith	Northwestern Basin and Range	Okanogan Highlands	Overthrust Mountains	Owyhee Uplands	Palouse Prairie	Snake River Basalts	Yellowstone Highlands	Number of Sections/SGCN
Common Loon						X			X					X	3
Western Grebe	X		X				X	X	X		X		X	X	8
Clark's Grebe	X						X	X			X		X		5
American White Pelican								X			X		X	X	4
American Bittern	X		X						X	X	X		X		6
White-faced Ibis	X									X	X		X	X	5
Ferruginous Hawk	X	X			X			X			X		X		6
Golden Eagle	X	X			X			X		X	X		X		7
Long-billed Curlew	X	X		X	X			X		X	X		X	X	9
California Gull	X							X			X		X	X	5
Caspian Tern	X							X			X		X	X	5
Black Tern	X		X						X	X	X		X		6
Burrowing Owl		X		X	X			X			X		X		6
Black Swift			X			X			X						3
Lewis's Woodpecker		X	X	X	X		X					X			6
Pinyon Jay								X							1
Sage Thrasher	X	X			X			X		X	X		X		7
Sagebrush Sparrow		X		X	X			X			X		X		6
Bobolink		X												X	2
Red Crossbill (South Hills popn.)								X							1
Pygmy Rabbit	X	X			X			X		X	X		X		7
Silver-haired Bat	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14
Hoary Bat	X	X	X	X	X		X	X		X	X	X	X	X	12
Fisher		X	X		X	X	X		X			X			7
Bighorn Sheep		X		X	X		X	X			X				6
Dark Kangaroo Mouse											X				1
Columbia Plateau (syn. Merriam's) Ground Squirrel								X			X				2
Wyoming Ground Squirrel (Southwest Idaho popn.)											X				1
A Cave Obligate Harvestman (<i>Speleomaster lexi</i>)													X		1
A Cave Obligate Harvestman (<i>Speleomaster pecki</i>)													X		1

Appendix D. Key ecological sections for each SGCN in Idaho. Continued

	Bear Lake	Beaverhead Mountains	Bitterroot Mountains	Blue Mountains	Challis Volcanics	Flathead Valley	Idaho Batholith	Northwestern Basin and Range	Okanogan Highlands	Overthrust Mountains	Owyhee Uplands	Palouse Prairie	Snake River Basalts	Yellowstone Highlands	Number of Sections/SGCN
Species of greatest conservation need															
A Cave Obligate Mite (<i>Flabellorhagidia pecki</i>)													X		1
Western Pearlshell		X	X	X	X		X					X			6
Idaho Lava Tube Millipede (<i>Idagona westcotti</i>)													X		1
Rocky Mountain Dusksnail	X		X					X		X				X	5
Pristine Pyrg			X	X			X								3
A Roundback Slug (<i>Hemphillia</i> sp. 1)									X						1
Lyrate Mountainsnail	X	X		X			X			X					5
Costate Mountainsnail				X											1
Deep Slide Mountainsnail				X			X								2
Deseret Mountainsnail													X		1
Striate Mountainsnail				X			X								2
An Ant-like Flower Beetle (<i>Amblyderus owyhee</i>)										X			X		2
A Metallic Wood-boring Beetle (<i>Chrysobothris horningi</i>)													X		1
A Metallic Wood-boring Beetle (<i>Chrysobothris idahoensis</i>)													X		1
Idaho Dunes Tiger Beetle													X		1
A Tiger Beetle (<i>Cicindela decemnotata montevolans</i>)	X									X					2
Alpine Tiger Beetle		X								X					2
A Riffle Beetle (<i>Bryelmis idahoensis</i>)			X	X			X								3
Lined June Beetle										X					1
Lolo Mayfly		X	X				X								3
A Mayfly (<i>Ephemerella alleni</i>)			X		X	X			X						4
A Miner Bee (<i>Calliopsis barri</i>)													X		1
Idaho Point-headed Grasshopper		X											X		2
Giant Palouse Earthworm											X				1
TIER 3 (96 Species)															
Sandhill Crane	X	X		X	X		X	X		X	X		X	X	10
Franklin's Gull	X									X			X	X	4
Ring-billed Gull								X		X			X	X	4
Great Gray Owl		X			X		X			X		X		X	6

Appendix D. Key ecological sections for each SGCN in Idaho. Continued

Species of greatest conservation need	Bear Lake	Beaverhead Mountains	Bitterroot Mountains	Blue Mountains	Challis Volcanics	Flathead Valley	Idaho Batholith	Northwestern Basin and Range	Okanogan Highlands	Overthrust Mountains	Owyhee Uplands	Palouse Prairie	Snake River Basalts	Yellowstone Highlands	Number of Sections/SGCN
Short-eared Owl	X	X		X	X			X			X	X	X	X	9
Common Nighthawk	X	X	X	X	X	X	X	X	X	X	X	X	X		13
White-headed Woodpecker				X			X					X			3
Olive-sided Flycatcher		X	X	X	X	X	X		X			X		X	9
Clark's Nutcracker		X	X	X	X	X	X		X					X	8
Grasshopper Sparrow				X				X			X	X	X		5
Black Rosy-Finch		X			X		X								3
Townsend's Big-eared Bat	X	X	X	X	X	X	X	X	X	X	X	X	X		13
Western Small-footed Myotis	X	X		X	X					X	X		X		7
Little Brown Myotis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14
Mountain Goat		X	X	X	X	X	X		X						7
Northern Bog Lemming						X			X						2
Hoary Marmot		X	X		X	X	X		X						6
Great Basin Collared Lizard											X				1
Harvestman (<i>Acuclavella</i>) Species Group			X				X								2
California Floater	X	X								X	X		X		5
Western Ridged Mussel		X		X		X	X		X		X		X		6
Raptor Fairy Shrimp											X				1
Pondsnail (<i>Stagnicola</i>) Species Group	X	X		X						X			X	X	6
Rotund Physa	X		X	X			X			X					5
Nez Perce Pebblesnail				X								X			2
Pale Jumping-slug			X			X	X		X						4
Nimapuna Disc			X				X								2
Salmon Coil			X	X			X		X						4
Boulder Pile Mountainsnail				X			X								2
Coeur d'Alene Oregonian			X	X		X	X		X						5
Western Flat-whorl				X		X	X		X						4
Southern Tightcoil				X											1
Shiny Tightcoil			X	X		X	X		X						5
A Metallic Wood-boring Beetle (<i>Agrilus pubifrons</i>)													X		1
Columbia River Tiger Beetle				X											1
A Long-horned Beetle (<i>Judolia gaurotoides</i>)													X		1

Appendix D. Key ecological sections for each SGCN in Idaho. Continued

Species of greatest conservation need	Bear Lake	Beaverhead Mountains	Bitterroot Mountains	Blue Mountains	Challis Volcanics	Flathead Valley	Idaho Batholith	Northwestern Basin and Range	Okanogan Highlands	Overthrust Mountains	Owyhee Uplands	Palouse Prairie	Snake River Basalts	Yellowstone Highlands	Number of Sections/SGCN
A Mayfly (<i>Ameletus tolae</i>)			X												1
A Mayfly (<i>Cinygma dimicki</i>)		X													1
A Mayfly (<i>Paraleptophlebia falcula</i>)			X									X			2
A Mayfly (<i>Paraleptophlebia jenseni</i>)											X				1
A Mayfly (<i>Paraleptophlebia traversae</i>)												X			1
A Mayfly (<i>Parameletus columbiae</i>)			X		X		X					X	X		5
A Miner Bee (<i>Andrena aculeata</i>)			X		X							X			3
A Miner Bee (<i>Perdita barri</i>)				X											1
A Miner Bee (<i>Perdita salicis euxantha</i>)			X	X			X					X			4
A Miner Bee (<i>Perdita wyomingensis sculleni</i>)				X			X								2
Yellow Bumble Bee				X								X			2
Hunt's Bumble Bee	X	X	X	X	X			X		X	X	X	X		10
A Yellow-masked Bee (<i>Hylaeus lunicraterius</i>)													X		1
A Leafcutting Bee (<i>Ashmeadiella sculleni</i>)													X		1
A Mason Bee (<i>Hoplitis orthognathus</i>)			X	X			X								3
A Mason Bee (<i>Hoplitis producta subgracilis</i>)		X			X			X		X			X		5
A Miner Bee (<i>Hesperapis kayella</i>)								X			X				2
A Moth (<i>Grammia eureka</i>)				X											1
Johnson's Hairstreak				X			X								2
Beartooth Copper		X													1
Kriemhild Fritillary	X							X		X				X	4
Monarch	X	X	X	X	X	X	X	X	X	X		X	X	X	13
Gillette's Checkerspot		X	X	X			X							X	5
Wiest's Primrose Sphinx													X		1
A Grasshopper (<i>Argiacris amissuli</i>)		X													1
A Grasshopper (<i>Argiacris keithi</i>)					X		X								2
A Grasshopper (<i>Argiacris militaris</i>)		X			X		X								3
A Grasshopper (<i>Barracris petraea</i>)		X					X								2
Spur-throated Grasshopper (<i>Melanoplus</i>) Species Group		X	X	X	X	X	X		X	X		X	X		10
Straight Snowfly			X									X			2
Idaho Snowfly			X									X			2
Duckhead Snowfly										X					1

Appendix D. Key ecological sections for each SGCN in Idaho. Continued

Species of greatest conservation need	Bear Lake	Beaverhead Mountains	Bitterroot Mountains	Blue Mountains	Challis Volcanics	Flathead Valley	Idaho Batholith	Northwestern Basin and Range	Okanogan Highlands	Overthrust Mountains	Owyhee Uplands	Palouse Prairie	Snake River Basalts	Yellowstone Highlands	Number of Sections/SGCN
Palouse Snowfly			X									X			2
Boise Snowfly				X											1
Lolo Sawfly		X					X								2
Utah Sallfly	X									X					2
Cascades Needlefly			X				X					X			3
Tiny Forestfly		X			X										2
Idaho Forestfly			X				X								2
Clearwater Roachfly			X												1
Umatilla Willowfly			X									X			2
A Caddisfly (<i>Apatania barri</i>)							X								1
A Caddisfly (<i>Manophylax annulatus</i>)			X				X								2
A Caddisfly (<i>Glossosoma idaho</i>)													X	X	2
A Caddisfly (<i>Cheumatopsyche logani</i>)				X			X								2
A Caddisfly (<i>Arctopora salmon</i>)							X								1
A Caddisfly (<i>Eocosmoecus schmidi</i>)		X	X	X	X		X	X							6
A Caddisfly (<i>Homophylax acutus</i>)			X												1
A Caddisfly (<i>Homophylax auricularis</i>)				X											1
A Caddisfly (<i>Limnephilus challisa</i>)					X		X								2
A Caddisfly (<i>Philocasca antennata</i>)			X												1
A Caddisfly (<i>Philocasca banksi</i>)			X												1
A Caddisfly (<i>Psychoglypha smithi</i>)					X		X								2
A Caddisfly (<i>Rhyacophila oreia</i>)		X	X	X			X								4
A Caddisfly (<i>Rhyacophila robusta</i>)			X				X								2
A Caddisfly (<i>Rhyacophila velora</i>)							X								1
A Caddisfly (<i>Goereilla baumanni</i>)		X	X												2
A Caddisfly (<i>Sericostriata surdickae</i>)		X	X	X	X										4
Idaho Amphipod							X								1
Snake River Pilose Crayfish								X			X		X		3
Number of SGCN/Section	45	61	71	72	50	31	79	43	36	43	53	38	62	33	