

Appendix A. ICBEMP definitions for fish status classifications

Stronghold - Stronghold watersheds include those with the following characteristics: 1) all major life histories (for example: stream resident or migratory) that historically occurred within the watershed are present; 2) numbers are stable or increasing, and the local population is likely to be at half or more of its historical size or density; and 3) the population or metapopulation within the subwatershed, or within a larger region of which the subwatershed is a part, probably contains at least 5,000 individuals or 500 adults.

Present depressed - Depressed watersheds include those with at least one of the following characteristics: 1) a major life-history component (for example, a migratory or resident form of westslope cutthroat trout) has been eliminated; 2) numbers within the subwatershed are declining, or the salmonid occurs in less than half of its historical habitat, or numbers are less than half of what the watershed supported historically; if historical information is unavailable, densities are less than half of what is found in comparable streams in an undisturbed condition where the species is well distributed; in cases with relatively strong numbers, but where a population was seriously hybridized with an introduced species or subspecies, the population representing the pure native species/subspecies was considered depressed; or 3) total abundance for the population or metapopulation within the subwatershed, or the larger region of which this subwatershed is a part, is less than 5,000 total fish or 500 adults; the fish within the subwatershed are isolated by distance or natural barriers from other populations that would collectively exceed these numbers.

Absent - The key salmonid is not present in this subwatershed. It is either extinct or never occupied the subwatershed. The subwatershed is located within the natural range of the species and colonization of the subwatershed was historically possible even though habitat or other environmental conditions might make the habitat unsuitable.

Present-unknown - The key salmonid is present, but there is no reliable information to determine current status.

Present, migration corridor - Migration corridors are habitats that do not support spawning or rearing, and function solely as routes or staging and wintering areas for migrating fish. If spawning or rearing are known to occur, the population status is judged as present-depressed, present-strong, or present-unknown. Many salmonids may disperse widely from natal habitats prior to maturation. Where a distinction could be made between areas that serve as initial rearing areas prior to migration and those that support transient or subadult fish (for example, mainstem rivers or lakes for bull trout), we considered the latter to be corridor habitat.

Unknown - No information exists regarding the current presence or absence of the species. Subwatersheds that were unclassified were considered unknown.

Appendix B. Wildlife species potentially occurring in the Bruneau subbasin

Common Name	Species Name
Amphibians	
Western toad	<i>Bufo boreas</i>
Woodhouse's toad	<i>Bufo woodhousii</i>
Pacific tree frog	<i>Pseudacris regilla</i>
Great basin spadefoot	<i>Spea intermontana</i>
Bullfrog	<i>Rana catesbeiana</i>
Northern leopard frog	<i>Rana pipiens</i>
Columbia spotted frog	<i>Rana luteiventris</i>
Birds	
Common loon	<i>Gavia immer</i>
Pied-billed grebe	<i>Podilymbus podiceps</i>
Eared grebe	<i>Podiceps nigricollis</i>
Western grebe	<i>Aechmophorus occidentalis</i>
Clark's grebe	<i>Aechmophorus clarkii</i>
American white pelican	<i>Pelecanus erythrorhynchos</i>
Double-crested cormorant	<i>Phalacrocorax auritus</i>
American bittern	<i>Botaurus lentiginosus</i>
Great blue heron	<i>Ardea herodias</i>
Great egret	<i>Ardea alba</i>
Snowy egret	<i>Egretta thula</i>
Cattle egret	<i>Bubulcus ibis</i>
Black-crowned night-heron	<i>Nycticorax nycticorax</i>
White-faced ibis	<i>Plegadis chihi</i>
Canada goose	<i>Branta canadensis</i>
Wood duck	<i>Aix sponsa</i>
Green-winged teal	<i>Anas crecca</i>
Mallard	<i>Anas platyrhynchos</i>
Northern pintail	<i>Anas acuta</i>
Blue-winged teal	<i>Anas discors</i>
Cinnamon teal	<i>Anas cyanoptera</i>
Northern shoveler	<i>Anas clypeata</i>
Gadwall	<i>Anas strepera</i>
American wigeon	<i>Anas americana</i>
Canvasback	<i>Aythya valisineria</i>
Redhead	<i>Aythya americana</i>
Barrow's goldeneye	<i>Bucephala islandica</i>
Bufflehead	<i>Bucephala albeola</i>
Common merganser	<i>Mergus merganser</i>
Ruddy duck	<i>Oxyura jamaicensis</i>
Turkey vulture	<i>Cathartes aura</i>
Osprey	<i>Pandion haliaetus</i>
Bald eagle	<i>Haliaeetus leucocephalus</i>

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Common Name	Species Name
Northern Harrier	<i>Circus cyaneus</i>
Sharp-shinned hawk	<i>Accipiter striatus</i>
Cooper's hawk	<i>Accipiter cooperii</i>
Northern goshawk	<i>Accipiter gentilis</i>
Swainson's hawk	<i>Buteo swainsoni</i>
Red-tailed hawk	<i>Buteo jamaicensis</i>
Ferruginous hawk	<i>Buteo regalis</i>
Golden eagle	<i>Aquila chrysaetos</i>
American kestrel	<i>Falco sparverius</i>
Merlin	<i>Falco columbarius</i>
Peregrine falcon	<i>Falco peregrinus anatum</i>
Prairie falcon	<i>Falco mexicanus</i>
Gray partridge	<i>Perdix perdix</i>
Chukar	<i>Alectoris chukar</i>
Ring-necked pheasant	<i>Phasianus colchicus</i>
Greater sage grouse	<i>Centrocercus urophasianus</i>
California quail	<i>Callipepla californica</i>
Mountain quail	<i>Oreortyx pictus</i>
Virginia rail	<i>Rallus limicola</i>
Sora	<i>Porzana carolina</i>
American coot	<i>Fulica americana</i>
Sandhill crane	<i>Grus canadensis</i>
Killdeer	<i>Charadrius vociferus</i>
Black-necked stilt	<i>Himantopus mexicanus</i>
American avocet	<i>Recurvirostra americana</i>
Willet	<i>Catoptrophorus semipalmatus</i>
Spotted sandpiper	<i>Actitis macularia</i>
Long-billed curlew	<i>Numenius americanus</i>
Common snipe	<i>Gallinago gallinago</i>
Wilson's phalarope	<i>Phalaropus tricolor</i>
Ring-billed gull	<i>Larus delawarensis</i>
California gull	<i>Larus californicus</i>
Caspian tern	<i>Sterna caspia</i>
Forster's tern	<i>Sterna forsteri</i>
Black tern	<i>Chlidonias niger</i>
Rock dove	<i>Columba livia</i>
Mourning dove	<i>Zenaida macroura</i>
Yellow-billed cuckoo	<i>Coccyzus americanus</i>
Barn owl	<i>Tyto alba</i>
Flammulated owl	<i>Otus flammeolus</i>
Western screech-owl	<i>Otus kennicottii</i>
Great horned owl	<i>Bubo virginianus</i>
Northern pygmy-owl	<i>Glaucidium gnoma</i>
Burrowing owl	<i>Athene cunicularia</i>
Long-eared owl	<i>Asio otus</i>

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Common Name	Species Name
Short-eared owl	<i>Asio flammeus</i>
Northern saw-whet owl	<i>Aegolius acadicus</i>
Common nighthawk	<i>Chordeiles minor</i>
Common poorwill	<i>Phalaenoptilus nuttallii</i>
White-throated swift	<i>Aeronautes saxatalis</i>
Black-chinned hummingbird	<i>Archilochus alexandri</i>
Calliope hummingbird	<i>Stellula calliope</i>
Broad-tailed hummingbird	<i>Selasphorus platycercus</i>
Rufous hummingbird	<i>Selasphorus rufus</i>
Belted kingfisher	<i>Ceryle alcyon</i>
Lewis' woodpecker	<i>Melanerpes lewis</i>
Red-naped sapsucker	<i>Sphyrapicus nuchalis</i>
Downy woodpecker	<i>Picoides pubescens</i>
Hairy woodpecker	<i>Picoides villosus</i>
White-headed woodpecker	<i>Picoides albolarvatus</i>
Northern flicker	<i>Colaptes auratus</i>
Olive-sided flycatcher	<i>Contopus cooperi</i>
Western wood-pewee	<i>Contopus sordidulus</i>
Willow flycatcher	<i>Empidonax traillii</i>
Hammond's flycatcher	<i>Empidonax hammondii</i>
Dusky flycatcher	<i>Empidonax oberholseri</i>
Gray flycatcher	<i>Empidonax wrightii</i>
Cordilleran flycatcher	<i>Empidonax occidentalis</i>
Say's phoebe	<i>Sayornis saya</i>
Ash-throated flycatcher	<i>Myiarchus cinerascens</i>
Western kingbird	<i>Tyrannus verticalis</i>
Eastern kingbird	<i>Tyrannus tyrannus</i>
Horned lark	<i>Eremophila alpestris</i>
Tree swallow	<i>Tachycineta bicolor</i>
Violet-green swallow	<i>Tachycineta thalassina</i>
Northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>
Bank swallow	<i>Riparia riparia</i>
Cliff swallow	<i>Petrochelidon pyrrhonota</i>
Barn swallow	<i>Hirundo rustica</i>
Black-billed magpie	<i>Pica hudsonia</i>
American crow	<i>Corvus brachyrhynchos</i>
Common raven	<i>Corvus corax</i>
Black-capped chickadee	<i>Poecile atricapilla</i>
Mountain chickadee	<i>Poecile gambeli</i>
Bushtit	<i>Psaltriparus minimus</i>
Red-breasted nuthatch	<i>Sitta canadensis</i>
White-breasted nuthatch	<i>Sitta carolinensis</i>
Brown creeper	<i>Certhia americana</i>
Rock wren	<i>Salpinctes obsoletus</i>
Canyon wren	<i>Catherpes mexicanus</i>

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Common Name	Species Name
House wren	<i>Troglodytes aedon</i>
Marsh wren	<i>Cistothorus palustris</i>
American dipper	<i>Cinclus mexicanus</i>
Golden-crowned kinglet	<i>Regulus satrapa</i>
Ruby-crowned kinglet	<i>Regulus calendula</i>
Blue-gray gnatcatcher	<i>Polioptila caerulea</i>
Mountain bluebird	<i>Sialia currucoides</i>
Swainson's thrush	<i>Catharus ustulatus</i>
Hermit thrush	<i>Catharus guttatus</i>
American robin	<i>Turdus migratorius</i>
Gray catbird	<i>Dumetella carolinensis</i>
Northern mockingbird	<i>Mimus polyglottos</i>
Sage thrasher	<i>Oreoscoptes montanus</i>
Cedar waxwing	<i>Bombycilla cedrorum</i>
Loggerhead shrike	<i>Lanius ludovicianus</i>
European starling	<i>Sturnus vulgaris</i>
Warbling vireo	<i>Vireo gilvus</i>
Cassin's vireo	<i>Vireo cassinii</i>
Orange-crowned warbler	<i>Vermivora celata</i>
Virginia's warbler	<i>Vermivora virginiae</i>
Yellow warbler	<i>Dendroica petechia</i>
Yellow-rumped warbler	<i>Dendroica coronata</i>
Black-throated gray warbler	<i>Dendroica nigrescens</i>
Macgillivray's warbler	<i>Oporornis tolmiei</i>
Common yellowthroat	<i>Geothlypis trichas</i>
Wilson's warbler	<i>Wilsonia pusilla</i>
Yellow-breasted chat	<i>Icteria virens</i>
Western tanager	<i>Piranga ludoviciana</i>
Black-headed grosbeak	<i>Pheucticus melanocephalus</i>
Blue grosbeak	<i>Guiraca caerulea</i>
Lazuli bunting	<i>Passerina amoena</i>
Green-tailed towhee	<i>Pipilo chlorurus</i>
Spotted towhee	<i>Pipilo maculatus</i>
Chipping sparrow	<i>Spizella passerina</i>
Brewer's sparrow	<i>Spizella breweri</i>
Vesper sparrow	<i>Pooecetes gramineus</i>
Lark sparrow	<i>Chondestes grammacus</i>
Black-throated sparrow	<i>Amphispiza bilineata</i>
Sage sparrow	<i>Amphispiza belli</i>
Lark bunting	<i>Calamospiza melanocorys</i>
Savannah sparrow	<i>Passerculus sandwichensis</i>
Grasshopper sparrow	<i>Ammodramus savannarum</i>
Fox sparrow	<i>Passerella iliaca</i>
Song sparrow	<i>Melospiza melodia</i>
Lincoln's sparrow	<i>Melospiza lincolnii</i>

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Common Name	Species Name
White-crowned sparrow	<i>Zonotrichia leucophrys</i>
Dark-eyed (Oregon) junco	<i>Junco hyemalis</i>
Bobolink	<i>Dolichonyx oryzivorus</i>
Red-winged blackbird	<i>Agelaius phoeniceus</i>
Western meadowlark	<i>Sturnella neglecta</i>
Yellow-headed blackbird	<i>Xanthocephalus xanthocephalus</i>
Brewer's blackbird	<i>Euphagus cyanocephalus</i>
Common grackle	<i>Quiscalus quiscula</i>
Brown-headed cowbird	<i>Molothrus ater</i>
Bullock's oriole	<i>Icterus bullockii</i>
Pine grosbeak	<i>Pinicola enucleator</i>
Cassin's finch	<i>Carpodacus cassinii</i>
House finch	<i>Carpodacus mexicanus</i>
Red crossbill	<i>Loxia curvirostra</i>
Pine siskin	<i>Carduelis pinus</i>
American goldfinch	<i>Carduelis tristis</i>
Evening grosbeak	<i>Coccothraustes vespertinus</i>
House sparrow	<i>Passer domesticus</i>
Mammals	
Vagrant shrew	<i>Sorex vagrans</i>
Water shrew	<i>Sorex palustris</i>
Merriam's shrew	<i>Sorex merriami</i>
Little brown bat	<i>Myotis lucifugus</i>
Yuma myotis	<i>Myotis yumanensis</i>
Long-eared myotis	<i>Myotis evotis</i>
Fringed myotis	<i>Myotis thysanodes</i>
Long-legged myotis	<i>Myotis volans</i>
California myotis	<i>Myotis californicus</i>
Western small-footed myotis	<i>Myotis ciliolabrum</i>
Silver-haired bat	<i>Lasionycteris noctivagans</i>
Western pipistrelle	<i>Pipistrellus hesperus</i>
Big brown bat	<i>Eptesicus fuscus</i>
Hoary bat	<i>Lasiurus cinereus</i>
Spotted bat	<i>Euderma maculatum</i>
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>
Pallid bat	<i>Antrozous pallidus</i>
Nuttall's (mountain) cottontail	<i>Sylvilagus nuttallii</i>
White-tailed jack rabbit	<i>Lepus townsendii</i>
Black-tailed jack rabbit	<i>Lepus californicus</i>
Pygmy rabbit	<i>Brachylagus idahoensis</i>
Least chipmunk	<i>Tamias minimus</i>
Yellow-pine chipmunk	<i>Tamias amoenus</i>
Yellow-bellied marmot	<i>Marmota flaviventris</i>
White-tailed antelope squirrel	<i>Ammospermophilus leucurus</i>
Belding's ground squirrel	<i>Spermophilus beldingi</i>

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Common Name	Species Name
Golden-mantled ground squirrel	<i>Spermophilus lateralis</i>
Wyoming ground squirrel	<i>Spermophilus elegans</i>
Townsend's pocket gopher	<i>Thomomys townsendii</i>
Northern pocket gopher	<i>Thomomys talpoides</i>
Great basin pocket mouse	<i>Perognathus parvus</i>
Ord's kangaroo rat	<i>Dipodomys ordii</i>
Chisel-toothed kangaroo rat	<i>Dipodomys microps</i>
American beaver	<i>Castor canadensis</i>
Western harvest mouse	<i>Reithrodontomys megalotis</i>
Deer mouse	<i>Peromyscus maniculatus</i>
Canyon mouse	<i>Peromyscus crinitus</i>
Pinyon mouse	<i>Peromyscus truei</i>
Northern grasshopper mouse	<i>Onychomys leucogaster</i>
Desert woodrat	<i>Neotoma lepida</i>
Bushy-tailed woodrat	<i>Neotoma cinerea</i>
Montane vole	<i>Microtus montanus</i>
Long-tailed vole	<i>Microtus longicaudus</i>
Sagebrush vole	<i>Lemmiscus curtatus</i>
Muskrat	<i>Ondatra zibethicus</i>
House mouse	<i>Mus musculus</i>
Western jumping mouse	<i>Zapus princeps</i>
North American porcupine	<i>Erethizon dorsatum</i>
Coyote	<i>Canis latrans</i>
Red fox	<i>Vulpes vulpes</i>
Northern raccoon	<i>Procyon lotor</i>
Ermine	<i>Mustela erminea</i>
Long-tailed weasel	<i>Mustela frenata</i>
American mink	<i>Mustela vison</i>
American badger	<i>Taxidea taxus</i>
Western spotted skunk	<i>Spilogale gracilis</i>
Striped skunk	<i>Mephitis mephitis</i>
Northern river otter	<i>Lontra canadensis</i>
Bobcat	<i>Lynx rufus</i>
Mountain lion	<i>Puma concolor</i>
Elk	<i>Cervus elaphus</i>
Mule deer	<i>Odocoileus hemionus</i>
White-tailed deer	<i>Odocoileus virginianus</i>
Pronghorn	<i>Antilocapra americana</i>
Bighorn sheep	<i>Ovis canadensis</i>
Reptiles	
Mojave black-collared lizard	<i>Crotaphytus bicinctores</i>
Longnose leopard lizard	<i>Gambelia wislizenii</i>
Pygmy short-horned lizard	<i>Phrynosoma douglasii</i>
Desert horned lizard	<i>Phrynosoma platyrhinos</i>
Sagebrush lizard	<i>Sceloporus graciosus</i>

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Common Name	Species Name
Western fence lizard	<i>Sceloporus occidentalis</i>
Side-blotched lizard	<i>Uta stansburiana</i>
Western skink	<i>Eumeces skiltonianus</i>
Western whiptail	<i>Cnemidophorus tigris</i>
Rubber boa	<i>Charina bottae</i>
Racer	<i>Coluber constrictor</i>
Night snake	<i>Hypsiglena torquata</i>
Striped whipsnake	<i>Masticophis taeniatus</i>
Gopher snake	<i>Pituophis melanoleucus</i>
Longnose snake	<i>Rhinocheilus lecontei</i>
Western ground snake	<i>Sonora semiannulata</i>
Western terrestrial garter	<i>Thamnophis elegans</i>
Common garter snake	<i>Thamnophis sirtalis</i>
Western rattlesnake	<i>Crotalus viridis</i>

Appendix C

Appendix C. Noxious weed species documented in Owyhee County (Invaders database).

Genus	Species	Common Name	Noxious In	Exotic
<i>Agropyron</i>	<i>repens</i>	Quackgrass	OR,WY	×
<i>Arctium</i>	<i>minus</i>	Common burdock	WY	×
<i>Cardaria</i>	<i>draba</i>	Hoary cress	ID,MT,OR,WA,WY	×
<i>Cardaria</i>	<i>pubescens</i>	Hairy whitetop	WA,WY	×
<i>Carduus</i>	<i>nutans</i>	Musk thistle	ID,OR,WA,WY	×
<i>Cenchrus</i>	<i>longispinus</i>	Longspine sandbur	WA	
<i>Centaurea</i>	<i>diffusa</i>	Diffuse knapweed	ID,MT,OR,WA,WY	×
<i>Centaurea</i>	<i>maculosa</i>	Spotted knapweed	ID,MT,OR,WA,WY	×
<i>Centaurea</i>	<i>repens</i>	Russian knapweed	ID,MT,OR,WA,WY	×
<i>Centaurea</i>	<i>solstitialis</i>	Yellow starthistle	ID,MT,OR,WA	×
<i>Chondrilla</i>	<i>juncea</i>	Rush skeletonweed	ID,MT,OR,WA	×
<i>Cirsium</i>	<i>arvense</i>	Canada thistle	ID,MT,OR,WA,WY	×
<i>Cirsium</i>	<i>vulgare</i>	Bull thistle	OR,WA	×
<i>Conium</i>	<i>maculatum</i>	Poison hemlock	ID,OR,WA	×
<i>Convolvulus</i>	<i>arvensis</i>	Field bindweed	ID,MT,OR,WA,WY	×
<i>Cytisus</i>	<i>scoparius</i>	Scotch broom	ID,OR,WA	×
<i>Euphorbia</i>	<i>esula</i>	Leafy spurge	ID,MT,OR,WA,WY	×
<i>Halogeton</i>	<i>glomeratus</i>	Halogeton	OR	×
<i>Hyoscyamus</i>	<i>niger</i>	Black henbane	ID,WA	×
<i>Lepidium</i>	<i>latifolium</i>	Perennial pepperweed	ID,OR,WA,WY	×
<i>Linaria</i>	<i>dalmatica</i>	Dalmatian toadflax	ID,MT,OR,WA,WY	×
<i>Lythrum</i>	<i>salicaria</i>	Purple loosestrife	ID,MT,OR,WA,WY	×
<i>Onopordum</i>	<i>acanthium</i>	Scotch thistle	ID,OR,WA,WY	×
<i>Phalaris</i>	<i>arundinacea</i>	Reed canarygrass	WA	×
<i>Polygonum</i>	<i>cuspidatum</i>	Japanese knotweed	OR,WA	×
<i>Solanum</i>	<i>rostratum</i>	Buffalobur	ID,OR,WA	
<i>Sonchus</i>	<i>arvensis</i>	Perennial sowthistle	ID,WA,WY	×
<i>Tamarix</i>	<i>spp.</i>	Tamarix complex	MT,WA,WY	×
<i>Tribulus</i>	<i>terrestris</i>	Puncturevine	ID,OR,WA	×