

7 Appendices

Appendix A. Species of special concern (SC), game special concern (GSC), protected (P), or endangered (E) in Idaho; species considered endangered (E), threatened (T), or protected (P) by Nevada; BLM special status species (Type [T] 2–5); and USFS Region 4 sensitive (S) species that are present or have potential habitat in the Bruneau subbasin (BLM 2003b, IBIS 2003, IDCDC 2003, IDFG 2003b, NDOW 2003b, NNHP 2003).

Common Name	Scientific Name	ID	NV	BLM	USFS
Birds					
American peregrine falcon	<i>Falco peregrinus anatum</i>	E	E	T3	
American white pelican	<i>Pelecanus erythrorhynchos</i>	SC/P	P	T2	
Bald eagle	<i>Haliaeetus leucocephalus</i>	P	T/P	T1	S
Barn owl	<i>Tyto alba</i>	P			
Barrow's goldeneye	<i>Bucephala islandica</i>	G		T5	
Black swift	<i>Cypseloides niger</i>	P		T4	
Black tern	<i>Chlidonias niger</i>	SC/P	P	T3	
Black-backed woodpecker	<i>Picoides arcticus</i>	SC/P		T5	
Black-crowned night-heron	<i>Nycticorax nycticorax</i>	P			
Black-throated gray warbler	<i>Dendroica nigrescens</i>	P			
Blue grouse	<i>Dendragapus obscurus</i>			T5	
Bohemian waxwing	<i>Bombycilla garrulus</i>	P			
Brewer's blackbird	<i>Euphagus cyanocephalus</i>	P		T5	
Brewer's sparrow	<i>Spizella breweri</i>	P		T3	
California gull	<i>Larus californicus</i>	P			
Calliope hummingbird	<i>Stellula calliope</i>	P		T3	
Caspian tern	<i>Sterna caspia</i>	P			
Cassin's finch	<i>Carpodacus cassinii</i>	P		T5	
Cattle egret	<i>Bubulcus ibis</i>	P			
Clark's grebe	<i>Aechmophorus clarkii</i>	P			
Columbian sharp-tailed grouse	<i>Tympanuchus phasianellus columbianus</i>	GSC		T3	S
Common loon	<i>Gavia immer</i>	SC/P	P		S
Common nighthawk	<i>Chordeiles minor</i>	P	P		
Common tern	<i>Sterna hirundo</i>	P			
Cooper's hawk	<i>Accipiter cooperii</i>	P	P		
Cordilleran flycatcher	<i>Empidonax occidentalis</i>	P		T5	
Double-crested cormorant	<i>Phalacrocorax auritus</i>	P			
Eared grebe	<i>Podiceps nigricollis</i>	P			

Common Name	Scientific Name	ID	NV	BLM	USFS
Ferruginous hawk	<i>Buteo regalis</i>	P	P	T3	
Flammulated owl	<i>Otus flammeolus</i>	SC/P	P	T3	S
Forster's tern	<i>Sterna forsteri</i>	P			
Franklin's gull	<i>Larus pipixcan</i>	P			
Golden eagle	<i>Aquila chrysaetos</i>	P	P		
Grasshopper sparrow	<i>Grasshopper sparrow</i>	P		T5	
Great egret	<i>Ardea alba</i>	SC/P			
Great horned owl	<i>Bubo virginianus</i>	P	P		
Green-tailed towhee	<i>Pipilo chlorurus</i>	P		T5	
Hammond's flycatcher	<i>Empidonax hammondi</i>	P		T3	
Harlequin duck	<i>Histrionicus histrionicus</i>	GSC		T4	S
Horned grebe	<i>Podiceps auritus</i>	P			
Lesser goldfinch	<i>Carduelis psaltria</i>	P			
Lewis's woodpecker	<i>Melanerpes lewis</i>	P		T3	
Loggerhead shrike	<i>Lanius ludovicianus</i>	SC/P		T3	
Long-billed curlew	<i>Numenius americanus</i>	P		T5	
Long-eared owl	<i>Asio otus</i>	P	P		
Merlin	<i>Falco columbarius</i>	P			
Mountain quail	<i>Oreortyx pictus</i>	SC	PG	T3	S
Northern goshawk	<i>Accipiter gentilia</i>	SC/P	P	T3	S
Northern harrier	<i>Circus cyaneus</i>	P	P		
Northern mockingbird	<i>Mimus polyglottos</i>	P			
Northern pygmy owl	<i>Glaucidium gnoma</i>	SC/P		T5	
Olive-sided flycatcher	<i>Contopus borealis</i>	P		T3	
Osprey	<i>Pandion haliaetus</i>	P	P		
Pinyon jay	<i>Gymnorhinus cyanocephalus</i>	P		T5	
Prairie falcon	<i>Falco mexicanus</i>	P	P	T3	
Purple martin	<i>Progne subis</i>	P			
Red-naped sapsucker	<i>Sphyrapicus nuchalis</i>	P		T5	
Red-necked grebe	<i>Podiceps grisegena</i>	P			
Red-tailed hawk	<i>Buteo jamaicensis</i>	P	P		
Ring-billed gull	<i>Larus delawarensis</i>	P			
Rough-legged hawk	<i>Buteo lagopus</i>	P	P		
Sage grouse	<i>Centrocercus urophasianus</i>		PG	T2	
Sage sparrow	<i>Amphispiza belli</i>	P		T3	
Sage thrasher	<i>Oreoscoptes montanus</i>	P		T5	

Common Name	Scientific Name	ID	NV	BLM	USFS
Sharp-shinned hawk	<i>Accipiter striatus</i>	P	P		
Short-eared owl	<i>Asio flammeus</i>	P	P	T5	
Snowy egret	<i>Egretta thula</i>	P			
Swainson's hawk	<i>Buteo swainsoni</i>	P	P	T5	
Three-toed woodpecker	<i>Picoides tridactylus</i>	SC/P	P		S
Trumpeter swan	<i>Cygnus buccinator</i>	SC/P	PG	T3	S
Turkey vulture	<i>Cathartes aura</i>	P	P		
Vaux's swift	<i>Chaetura vauxi</i>	P		T5	
Virginia's warbler	<i>Vermivora virginiae</i>	P		T5	
Western burrowing owl	<i>Speotyto cunicularia hypugea</i>	P	P	T5	
Western grebe	<i>Aechmophorus occidentalis</i>	P			
Western scrub-jay	<i>Aphelocoma californica</i>	P			
White-faced ibis	<i>Plegadis chihi</i>	P	P	T4	
White-headed woodpecker	<i>Picoides albolarvatus</i>	SC/P	P	T4	S
White-winged crossbill	<i>Loxia leucoptera</i>	P			
Williamson's sapsucker	<i>Sphyrapicus thyroideus</i>	P		T3	
Willow flycatcher	<i>Empidonax trailii</i>	P		T3	
Wilson's phalarope	<i>Phalaropus tricolor</i>	P		T5	
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	SC		T1	
Mammals					
American pika	<i>Ochotona princeps</i>		P		
California bighorn sheep	<i>Ovis canadensis californiana</i>			T3	
California myotis	<i>Myotis californicus</i>			T4	
Dark kangaroo mouse	<i>Microdipodops megacephalus</i>	SC		T4	
Fringed myotis	<i>Myotis thysanodes</i>	SC		T3	
Kit fox	<i>Vulpes macrotis</i>	SC		T4	
Little pocket mouse	<i>Perognathus longimembris</i>	SC		T4	
Long-eared myotis	<i>Myotis evotis</i>			T5	
Long-legged myotis	<i>Myotis volans</i>			T5	
North american wolverine	<i>Gulo gulo luscus</i>	SC		T3	S
Pygmy rabbit	<i>Brachylagus idahoensis</i>	GSC	G	T2	
Rock squirrel	<i>Spermophilus variegatus</i>	SC		T5	
Spotted bat	<i>Euderma maculatum</i>	SC	T	T3	S
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	SC		T3	S
Western small-footed myotis	<i>Myotis ciliolabrum</i>			T5	
Western pipistrelle	<i>Pipistrellus hesperus</i>	SC		T5	

Common Name	Scientific Name	ID	NV	BLM	USFS
Yuma myotis	<i>Myotis yumanensis</i>			T5	
Amphibians and Reptiles					
Columbia spotted frog	<i>Rana luteiventris</i>	SC	P	T1	S
Common garter snake	<i>Thamnophis sirtalis</i>			T3	
Longnose snake	<i>Rhinocheilus lecontei</i>			T3	
Mojave black-collared lizard	<i>Crotaphytus bicinctores</i>	SC		T3	
Night snake	<i>Hypsiglena torquata</i>			T5	
Northern leopard frog	<i>Rana pipiens</i>	SC		T2	
Ringneck snake	<i>Diadophis punctatus</i>	SC		T5	
Western ground snake	<i>Sonora semiannulata</i>	SC		T3	S
Western toad	<i>Bufo boreas</i>	SC		T3	

Appendix B. Special status plant species known to occur or with potential habitat in the Bruneau subbasin. The appendix contains status rankings from the Idaho Native Plant Society (INPS, IDCDC 2003), Bureau of Land Management sensitive species in Owyhee (BLM OW) and Jarbidge (BLM JA) Field Office areas, and natural heritage state ranks from Idaho (ICDC 2003) and Nevada (NNHP 2003). U.S. Forest Service Region Four sensitive species are denoted by a superscript number one (e.g. *Astragalus yoder-williamsii*¹).

Scientific Name	Common Name	INPS	BLM OW	BLM JA	CDC	N NHP
<i>Angelica kingii</i>	Nevada angelica	1	T3		S1	
<i>Astragalus conjunctus</i>	Stiff milkvetch	S	T5		S2	
<i>Astragalus mulfordiae</i>	Mulford's milkvetch	GP2	T2		S2	
<i>Astragalus newberryi</i> var <i>castoreus</i>	Newberry's milkvetch	S	T4		S2	
<i>Astragalus purshii</i> var <i>ophiogenes</i>	Snake river milkvetch	M	T5	T5	S3	
<i>Astragalus sterilis</i>	Barren milkvetch	GP3	T3		S1	
<i>Astragalus tetrapterus</i>	Four-wing milkvetch	1	T3		S1	
<i>Astragalus yoder-williamsii</i> ¹	Mud flat milkvetch	GP3	T3		S3	S1
<i>Blepharidachne kingii</i>	King's desertgrass	1	T3		S1	
<i>Camissonia palmeri</i>	Palmer's evening primrose	GP3	T2		S1	
<i>Camissonia pterosperma</i>	Winged-seed evening primrose	S			S2	
<i>Carex tumulicola</i>	Foothill sedge	S	T4		S1	
<i>Catapyrenium congestum</i>	Catapyrenium congestum		T4			
<i>Chaenactis cusickii</i>	Cusick's false yarrow	GP3	T2		S2	
<i>Chainactis stevioides</i>	Desert pincushion	S	T4	T4	S2	
<i>Cleomella plocasperma</i>	Alkali cleomella	1	T3		SH	
<i>Coryphantha vivipara</i>	Cushion cactus	S			S2	
<i>Cryptantha propria</i>	Malheur cryptantha		T5			
<i>Cymopterus acaulis</i> var <i>greeleyorum</i>	Greeley's wavewing	GP2	T3	T3	S2	
<i>Cyperus rivularis</i>	Shining flatsedge	M			S2	
<i>Damasonium californicum</i>	Fringed waterplantain	M			S2	
<i>Dimeresia howellii</i>	Dimeresia	2	T3		S2	
<i>Downingia bacigalupii</i>	Bacigalupi's downingia	S	T4	T4	S2	
<i>Downingia insignis</i>	Downingia	1	T3		S1	
<i>Eatonella nivea</i>	White eatonella	S	T4	T4	S3	
<i>Epipactis gigantea</i>	Giant helleborine	2	T3	T3	S3	

Scientific Name	Common Name	INPS	BLM OW	BLM JA	CDC	N NHP
<i>Eriogonum shockleyi</i> var <i>packardiae</i>	Packard's buckwheat	GP2	T2	T2	S2	
<i>Eriogonum shockleyi</i> var <i>shockleyi</i>	Matted cowpie buckwheat	2	T3	T3	S2	
<i>Glyptopleura marginata</i>	White-margined wax plant	S	T4	T4	S3	
<i>Hackelia ophiobia</i>	Rattlesnake stickseed	GP3	T3		S1	
<i>Haplopappus bloomeri</i>	Rabbitbrush goldenweed		T5			
<i>Haplopappus uniflorus</i> var <i>howellii</i>	Howell's one-flowered goldenweed		T4			
<i>Ipomopsis polycladon</i>	Spreading gilia	2	T3	T3	S2	
<i>Lepidium davisii</i>	Davis' peppergrass	GP3	T3	T3	S3	S1
<i>Lepidium papilliferum</i> ¹	Slickspot peppergrass	GP2		T1	S2	
<i>Leptodactylon glabrum</i>	Bruneau river prickly phlox	GP2	T3	T3	S2	S1
<i>Lomatium packardiae</i>	Packard's desert-parsley	GP2	T2		S2	S1?
<i>Lupinus uncialis</i>	Inch-high lupine	S	T4		S2	
<i>Machaerocarpus californicus</i>	Star water plantain		T5	T5		
<i>Mentzelia mollis</i>	Smooth stickleaf	GP2	T2		S2	S1
<i>Mimulus evanescens</i>	Disappearing monkey-flower		T5			
<i>Nemacladus rigidus</i>	Rigid threadbush	S	T4	T4	S2	
<i>Pediocactus simpsonii</i>	Simpson's hedgehog cactus	M	T5	T5	S3	
<i>Penstemon janishiae</i>	Janish's penstemon	2	T3	T3	S2	
<i>Penstemon seorsus</i>	Short-lobed penstemon		T5			
<i>Peteria thompsoniae</i>	Spine-noded milkvetch	S	T4	T4	S2	
<i>Phacelia lutea</i> var <i>calva</i>	Malheur yellow phacelia	GP3	T3		S3	
<i>Phacelia minutissima</i> ¹	Least phacelia	GP3	T2		S2	S2
<i>Polystichum kruckebergii</i>	Kruckberg's sword-fern	S			S2	
<i>Potamogeton diversifolius</i>	Diverse-leaved pondweed		T5			
<i>Psathyrotes annua</i>	Annual brittlebrush	1	T3		S2	
<i>Solidago spectabilis</i>	Basin goldenrod		T5			
<i>Stanleya confertiflora</i>	Biennial princesplume	GP1	T2		S1	
<i>Teucrium canadense</i> var <i>occidentale</i>	American wood sage	1	T3	T3	S2	
<i>Trifolium owyheense</i>	Owyhee clover	GP3	T2		S1	

Appendix C. Wildlife species designated as rare or significant to the Bruneau subbasin. Natural heritage state ranks are presented from the IDCDC (2003) and NNHP (2003).

Common Name	Scientific Name	IDCDC	NNHP
Birds			
American white pelican	<i>Pelecanus erythrorhynchos</i>	S1B	S2B
Bald eagle	<i>Haliaeetus leucocephalus</i>	S3B,S4N	S1B
Barn owl	<i>Tyto alba</i>	S3?	
Barrow's goldeneye	<i>Bucephala islandica</i>	S3B,S3N	
Black swift	<i>Cypseloides niger</i>	S1B	
Black tern	<i>Chlidonias niger</i>	S2B	S2S3B
Black-backed woodpecker	<i>Picoides arcticus</i>	S3	
Black-crowned night-heron	<i>Nycticorax nycticorax</i>	S3B	
Black-throated sparrow	<i>Amphispiza bilineata</i>	S2B	
Bobolink	<i>Dolichonyx oryzivorus</i>		S3?B
Bohemian waxwing	<i>Bombycilla garrulus</i>	S1B,S3N	
Bufflehead	<i>Bucephala albeola</i>	S3B,S3N	
California gull	<i>Larus californicus</i>	S2S3B,S3 N	
Caspian tern	<i>Sterna caspia</i>	S1B	
Cattle egret	<i>Bubulcus ibis</i>	S2B	
Clark's grebe	<i>Aechmophorus clarkii</i>	S2B	
Columbian sharp-tailed grouse	<i>Tympanuchus phasianellus columbianus</i>	S3	S1?
Common goldeneye	<i>Bucephala clangula</i>	S3B,S3N	
Common loon	<i>Gavia immer</i>	S1B,S2N	S2S3N
Common tern	<i>Sterna hirundo</i>	S1B	
Common yellowthroat	<i>Geothlypis trichas</i>		S3B
Double-crested cormorant	<i>Phalacrocorax auritus</i>	S2B	
Ferruginous hawk	<i>Buteo regalis</i>	S3B	S3
Flammulated owl	<i>Otus flammeolus</i>	S3B	
Forster's tern	<i>Sterna forsteri</i>	S2S3B	
Franklin's gull	<i>Larus pipixcan</i>	S2B	
Great egret	<i>Ardea alba</i>	S1B	
Harlequin duck	<i>Histrionicus histrionicus</i>	S1B	SAN
Hooded merganser	<i>Lophodytes cucullatus</i>	S2B,S3N	
Horned grebe	<i>Podiceps auritus</i>	S1?	
Least bittern	<i>Ixobrychus exilis</i>		S2N

Common Name	Scientific Name	IDCDC	NNHP
Lesser goldfinch	<i>Carduelis psaltria</i>	S1B	
Loggerhead shrike	<i>Lanius ludovicianus</i>	S3	
Long-billed curlew	<i>Numenius americanus</i>	S3B	S3?B
Merlin	<i>Falco columbarius</i>	S1B,S2N	
Mountain quail	<i>Oreortyx pictus</i>	S2	S3
Mountain willow flycatcher	<i>Empidonax traillii adastus</i>		S2?
Northern goshawk	<i>Accipiter gentilis</i>		S3
Northern mockingbird	<i>Mimus polyglottos</i>	S1B	
Osprey	<i>Pandion haliaetus</i>		S2B
Peregrine falcon	<i>Falco peregrinus anatum</i>	S1B	S2
Pinyon jay	<i>Gymnorhinus cyanocephalus</i>	S2?	
Purple martin	<i>Progne subis</i>	S1?B	
Red-necked grebe	<i>Podiceps grisegena</i>	S3B	
Ring-billed gull	<i>Larus delawarensis</i>	S2S3B,S3 N	
Snowy egret	<i>Egretta thula</i>	S2B	
Snowy plover	<i>Charadrius alexandrinus</i>		S1B
Swainson's hawk	<i>Buteo swainsoni</i>		S2B
Three-toed woodpecker	<i>Picoides tridactylus</i>	S3?	
Tri-colored blackbird	<i>Agelaius tricolor</i>		S2
Trumpeter swan	<i>Cygnus buccinator</i>	S1B,S2N	S2B
Western burrowing owl	<i>Athene cunicularia hypugaea</i>	S3S4	S3B
Western scrub-jay	<i>Aphelocoma californica</i>	S2?	
White-faced ibis	<i>Plegadis chihi</i>	S2B	S3B
White-headed woodpecker	<i>Picoides albolarvatus</i>	S2B	S3?
White-winged crossbill	<i>Loxia leucoptera</i>	S1?	
Yellow warbler	<i>Dendroica petechia</i>		S3B
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	S1B	S1B
Yellow-breasted chat	<i>Icteria virens</i>		S3B
Mammals			
American pika	<i>Ochotona princeps</i>		S3
California bighorn sheep	<i>Ovis Canadensis californiana</i>	S3	
California myotis	<i>Myotis californicus</i>	S1?	S3B
Dark kangaroo mouse	<i>Microdipodops megacephalus</i>	S1	S2
Fringed myotis	<i>Myotis thysanodes</i>	S1?	S2B
Kit fox	<i>Vulpes velox</i>	S1	
Little pocket mouse	<i>Perognathus longimembris</i>	S1?	

Common Name	Scientific Name	IDCDC	NNHP
Long-eared myotis	<i>Myotis evotis</i>	S3?	
Long-legged myotis	<i>Myotis volans</i>	S3?	
Lynx	<i>Lynx canadensis</i>	S1	
Merriam's shrew	<i>Sorex merriami</i>	S2?	S3
North american wolverine	<i>Gulo gulo luscus</i>	S2	SP
Pallid bat	<i>Antrozous pallidus</i>	S1?	S3B
Pinon mouse	<i>Peromyscus truei</i>	S2	
Pygmy rabbit	<i>Brachylagus idahoensis</i>	S3	S3?
Rock squirrel	<i>Spermophilus variegatus</i>	S1	
Spotted bat	<i>Euderma maculatum</i>	S2	S1S2
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	S2?	S3B
Western jumping mouse	<i>Zapus princeps</i>		S3
Western pipistrelle	<i>Pipistrellus hesperus</i>	S1?	
Western small-footed myotis	<i>Myotis ciliolabrum</i>		S3B
Yuma myotis	<i>Myotis yumanensis</i>	S3?	
Amphibians and Reptiles			
Columbia spotted frog	<i>Rana luteiventris</i>	S2S3	S2S3
Longnose snake	<i>Rhinocheilus lecontei</i>	S3	
Mojave black-collared lizard	<i>Crotaphytus bicinctores</i>	S2	
Northern leopard frog	<i>Rana pipiens</i>	S3	
Ringneck snake	<i>Diadophis punctatus</i>	S1?	
Western toad	<i>Bufo boreas</i>	S?	
Woodhouse's toad	<i>Bufo woodhousii</i>	S3?	

Appendix D. Game (G) and furbearing (F) wildlife species that are managed by Idaho and Nevada that are present or have potential habitat in the Bruneau subbasin (IBIS 2003, NDOW 2003b, NNHP 2003).

Common Name	Scientific Name	ID	NV
Birds			
American coot	<i>Fulica americana</i>	G	G
American crow	<i>Corvus brachyrhynchos</i>	G	G
American wigeon	<i>Anas americana</i>	G	G
Barrow's goldeneye	<i>Bucephala islandica</i>	G	G
Blue grouse	<i>Dendragapus obscurus</i>	G	G
Blue-winged teal	<i>Anas discors</i>	G	G
Bufflehead	<i>Bucephala albeola</i>	G	G
California quail	<i>Callipepla californica</i>	G	G
Canada goose	<i>Branta canadensis</i>	G	G
Canvasback	<i>Aythya valisineria</i>	G	G
Chukar	<i>Alectoris chukar</i>	G	G
Cinnamon teal	<i>Anas cyanoptera</i>	G	G
Common goldeneye	<i>Bucephala clangula</i>	G	G
Common merganser	<i>Mergus merganser</i>	G	G
Common snipe	<i>Gallinago gallinago</i>	G	G
Gadwall	<i>Anas strepera</i>	G	G
Gray partridge	<i>Perdix perdix</i>	G	G
Greater scaup	<i>Aythya marila</i>		G
Greater white-fronted goose	<i>Anser albifrons</i>	G	G
Green-winged teal	<i>Anas crecca</i>	G	G
Harlequin duck	<i>Histrionicus histrionicus</i>	G	G
Hooded merganser	<i>Lophodytes cucullatus</i>	G	G
Lesser scaup	<i>Aythya affinis</i>	G	G
Mallard	<i>Anas platyrhynchos</i>	G	G
Mountain quail	<i>Oreortyx pictus</i>	G	G
Mourning dove	<i>Zenaida macroura</i>	G	G
Northern pintail	<i>Anas acuta</i>	G	G
Northern shoveler	<i>Anas clypeata</i>	G	G
Red-breasted merganser	<i>Mergus serrator</i>	G	G
Redhead	<i>Aythya americana</i>	G	G
Ring-necked duck	<i>Aythya collaris</i>	G	G
Ring-necked pheasant	<i>Phasianus colchicus</i>	G	G

Common Name	Scientific Name	ID	NV
Ross's goose	<i>Chen rossii</i>	G	G
Ruddy duck	<i>Oxyura jamaicensis</i>	G	G
Ruffed grouse	<i>Bonasa umbellus</i>	G	G
Sage grouse	<i>Centrocercus urophasianus</i>	G	G
Sandhill crane	<i>Grus canadensis</i>	G	
Sharp-tailed grouse	<i>Tympanuchus phasianellus</i>	G	G
Snow goose	<i>Chen Ccaerulescens</i>	G	G
Trumpeter swan	<i>Cygnus buccinator</i>		G
Wild turkey	<i>Meleagris gallopavo</i>	G	G
Wood duck	<i>Aix sponsa</i>	G	G
Mammals			
American badger	<i>Taxidea taxus</i>	G	
American beaver	<i>Castor canadensis</i>	G	F
Bighorn sheep	<i>Ovis canadensis</i>	G	G
Bobcat	<i>Lynx rufus</i>	G	F
Gray fox	<i>Urocyon cinereoargenteus</i>		F
Kit fox	<i>Vulpes velox</i>		F
Mink	<i>Mustela vison</i>	G	F
Mountain lion	<i>Puma concolor</i>	G	G
Mule deer	<i>Odocoileus hemionus</i>	G	G
Muskrat	<i>Ondatra zibethicus</i>	G	F
Northern river otter	<i>Lutra canadensis</i>	G	F
Nuttall's (mountain) cottontail	<i>Sylvilagus nuttallii</i>	G	G
Pronghorn	<i>Antilocapra americana</i>	G	G
Pygmy rabbit	<i>Brachylagus idahoensis</i>	G	G
Raccoon	<i>Procyon lotor</i>	G	G
Red fox	<i>Vulpes vulpes</i>	G	G
Rocky mountain elk	<i>Cervus elaphus nelsoni</i>	G	G
Snowshoe hare	<i>Lepus americanus</i>	G	G
White-tailed jackrabbit	<i>Lepus townsendii</i>		G

Appendix E. Partners in Flight priority and focal species identified in the Idaho (ID PIF) and Nevada (NV PIF) Bird Conservation Plans (Y=yes; IBIS 2003, Neel 1999).

Common name	Scientific name	ID PIF	NV PIF
American avocet	<i>Recurvirostra americana</i>	Y	Y
American dipper	<i>Cinclus mexicanus</i>	Y	
American white pelican	<i>Pelecanus erythrorhynchos</i>	Y	Y
Ash-throated flycatcher	<i>Myiarchus cinerascens</i>		Y
Bank swallow	<i>Riparia riparia</i>		Y
Barrow's goldeneye	<i>Bucephala islandica</i>	Y	
Black rosy-finch	<i>Leucosticte atrata</i>	Y	Y
Black swift	<i>Cypseloides niger</i>	Y	
Black tern	<i>Chlidonias niger</i>		Y
Black-backed woodpecker	<i>Picoides arcticus</i>	Y	
Black-billed magpie	<i>Pica pica</i>	Y	
Black-chinned hummingbird	<i>Archilochus alexandri</i>	Y	
Black-necked stilt	<i>Himantopus mexicanus</i>	Y	
Black-throated gray warbler	<i>Dendroica nigrescens</i>	Y	Y
Blue grouse	<i>Dendragapus obscurus</i>	Y	
Bobolink	<i>Dolichonyx oryzivorus</i>		Y
Brewer's sparrow	<i>Spizella breweri</i>	Y	
Brown creeper	<i>Certhia americana</i>	Y	
Burrowing owl	<i>Athene cunicularia</i>		Y
Calliope hummingbird	<i>Stellula calliope</i>	Y	Y
Cinnamon teal	<i>Anas cyanoptera</i>	Y	
Clark's grebe	<i>Aechmophorus clarkii</i>		Y
Cooper's hawk	<i>Accipiter cooperii</i>		Y
Dusky flycatcher	<i>Empidonax oberholseri</i>	Y	
Ferruginous hawk	<i>Buteo regalis</i>	Y	Y
Flammulated owl	<i>Otus flammeolus</i>	Y	Y
Franklin's gull	<i>Larus pipixcan</i>	Y	
Golden eagle	<i>Aquila chrysaetos</i>	Y	
Grasshopper sparrow	<i>Ammodramus savannarum</i>	Y	
Gray flycatcher	<i>Empidonax wrightii</i>	Y	Y
Hammond's flycatcher	<i>Empidonax hammondii</i>	Y	
Hooded merganser	<i>Lophodytes cucullatus</i>	Y	
Juniper titmouse	<i>Baeolophus griseus</i>		Y
Killdeer	<i>Charadrius vociferus</i>	Y	

Common name	Scientific name	ID PIF	NV PIF
Lark sparrow	<i>Chondestes grammacus</i>	Y	
Lewis's woodpecker	<i>Melanerpes lewis</i>	Y	Y
Loggerhead shrike	<i>Lanius ludovicianus</i>		Y
Long-billed curlew	<i>Numenius americanus</i>	Y	Y
Macgillivray's warbler	<i>Oporornis tolmiei</i>	Y	Y
Mountain quail	<i>Oreortyx pictus</i>	Y	
Northern goshawk	<i>Accipiter gentilis</i>	Y	Y
Olive-sided flycatcher	<i>Contopus cooperi</i>	Y	Y
Orange-crowned warbler	<i>Vermivora celata</i>		Y
Pinyon jay	<i>Gymnorhinus cyanocephalus</i>	Y	Y
Prairie falcon	<i>Falco mexicanus</i>	Y	Y
Redhead	<i>Aythya americana</i>	Y	
Red-naped sapsucker	<i>Sphyrapicus nuchalis</i>		Y
Rock wren	<i>Salpinctes obsoletus</i>	Y	
Ruffed grouse	<i>Bonasa umbellus</i>	Y	
Rufous hummingbird	<i>Selasphorus rufus</i>	Y	
Sage grouse	<i>Centrocercus urophasianus</i>	Y	Y
Sage sparrow	<i>Amphispiza belli</i>	Y	Y
Sage thrasher	<i>Oreoscoptes montanus</i>	Y	Y
Sandhill crane	<i>Grus canadensis</i>	Y	Y
Sharp-shinned hawk	<i>Accipiter striatus</i>	Y	
Sharp-tailed grouse	<i>Tympanuchus phasianellus</i>	Y	
Short-eared owl	<i>Asio flammeus</i>	Y	Y
Snowy plover	<i>Charadrius alexandrinus</i>		Y
Swainson's hawk	<i>Buteo swainsoni</i>	Y	Y
Three-toed woodpecker	<i>Picoides tridactylus</i>		Y
Townsend's warbler	<i>Dendroica townsendi</i>	Y	
Trumpeter swan	<i>Cygnus buccinator</i>	Y	
Varied thrush	<i>Ixoreus naevius</i>	Y	
Vaux's swift	<i>Chaetura vauxi</i>	Y	
Vesper sparrow	<i>Pooecetes gramineus</i>		Y
Western bluebird	<i>Sialia mexicana</i>		Y
Western grebe	<i>Aechmophorus occidentalis</i>	Y	
Western tanager	<i>Piranga ludoviciana</i>	Y	
White-faced ibis	<i>Plegadis chihi</i>	Y	Y
White-headed woodpecker	<i>Picoides albolarvatus</i>	Y	Y

Common name	Scientific name	ID PIF	NV PIF
Williamson's sapsucker	<i>Sphyrapicus thyroideus</i>	Y	
Willow flycatcher	<i>Empidonax traillii</i>	Y	Y
Wilson's warbler	<i>Wilsonia pusilla</i>		Y
Yellow warbler	<i>Dendroica petechia</i>	Y	
Yellow-billed cuckoo	<i>Coccyzus americanus</i>		Y
Yellow-breasted chat	<i>Icteria virens</i>		Y

Appendix F. Critical functionally linked species present or with potential habitat in the Bruneau subbasin (IBIS 2003).

KEF Code	KEF Description	Species	Wildlife-Habitat Type
1_1_1_13	Trophic relationships: Heterotrophic consumer: Primary consumer (herbivore): Bark/cambium/bole feeder	American beaver (<i>Castor canadensis</i>)	Open Water–Lakes, Rivers, and Streams
1_1_1_3	Trophic relationships: Heterotrophic consumer: Primary consumer (herbivore): Browser (leaf, stem eater)	White-tailed deer (<i>Odocoileus virginianus ochrourus</i>)	Agriculture, Pastures, and Mixed Environs
1_1_1_5	Trophic relationships: Heterotrophic consumer: Primary consumer (herbivore): Frugivore (fruit-eater)	Raccoon (<i>Procyon lotor</i>)	Open Water–Lakes, Rivers, and Streams
1_1_1_6	Trophic relationships: Heterotrophic consumer: Primary consumer (herbivore): Sap feeder	House finch (<i>Carpodacus mexicanus</i>)	Agriculture, Pastures, and Mixed Environs Urban and Mixed Environs
1_1_1_7	Trophic relationships: Heterotrophic consumer: Primary consumer (herbivore): Root feeders	Northern pocket gopher (<i>Thomomys talpoides</i>)	Desert Playa and Salt Scrub Shrublands Agriculture, Pastures, and Mixed Environs
1_1_1_8	Trophic relationships: Heterotrophic consumer: Primary consumer (herbivore): Nectivore (nectar feeder)	Black-chinned hummingbird (<i>Archilochus alexandri</i>)	Shrub-steppe Dwarf Shrub-steppe Desert Playa and Salt Scrub Shrublands
1_1_1_9	Trophic relationships:	Deer mouse (<i>Peromyscus maniculatus</i>)	Urban and Mixed Environs

KEF Code	KEF Description	Species	Wildlife-Habitat Type
	Heterotrophic consumer: Primary consumer (herbivore): Fungivore (fungus feeder)		
1_1_2_1_3	Trophic relationships: Heterotrophic consumer Secondary consumer Invertebrate eater Freshwater or marine zooplankton	Long-toed salamander (<i>Ambystoma macrodactylum</i>)	Upland Aspen Forest Alpine Grasslands and Shrublands Interior Canyon Shrublands Montane Coniferous Wetlands
1_1_2_2_1	Trophic relationships: Heterotrophic consumer: Secondary consumer: Vertebrate eater: Piscivorous (fish eater)	Raccoon (<i>Procyon lotor</i>)	Urban and Mixed Environs
1_1_5	Trophic relationships: Heterotrophic consumer: Cannibalistic	Great Basin spadefoot (<i>Scaphiopus intermontanus</i>)	Western Juniper and Mountain Mahogany Woodlands Desert Playa and Salt Scrub Shrublands
1_1_6	Trophic relationships: Heterotrophic consumer: Coprophagous (feeds on fecal material)	American pika (<i>Ochotona princeps</i>)	Alpine Grasslands and Shrublands
1_1_6	Trophic relationships: Heterotrophic consumer: Coprophagous (feeds on fecal material)	Nuttall's (mountain) cottontail (<i>Sylvilagus nuttallii</i>)	Western Juniper and Mountain Mahogany Woodlands
1_1_6	Trophic relationships: Heterotrophic consumer:	Snowshoe hare (<i>Lepus americanus</i>)	Lodgepole Pine Forest and Woodlands Ponderosa Pine & Interior White Oak Forest and Woodlands

KEF Code	KEF Description	Species	Wildlife-Habitat Type
	Coprophagous (feeds on fecal material)		Montane Coniferous Wetlands
2	Aids in physical transfer of substances for nutrient cycling (C,N,P, etc.)	Big brown bat (<i>Eptesicus fuscus</i>)	Agriculture, Pastures, and Mixed Environs Urban and Mixed Environs
3	Organismal relationships	Black phoebe (<i>Sayornis nigricans</i>)	Open Water–Lakes, Rivers, and Streams
3	Organismal relationships	Horned lark (<i>Eremophila alpestris</i>)	Alpine Grasslands and Shrublands Shrub-steppe Dwarf Shrub-steppe Desert Playa and Salt Scrub Shrublands
3	Organismal relationships	Spotted towhee (<i>Pipilo maculatus</i>)	Interior Mixed Conifer Forest Interior Canyon Shrublands
3	Organismal relationships	Lapland longspur (<i>Calcarius lapponicus</i>)	Herbaceous Wetlands
3_1	Organismal relationships: Controls or depresses insect population peaks	Big brown bat (<i>Eptesicus fuscus</i>)	Urban and Mixed Environs
3_15	Organismal relationships: Pirates food from other species	American crow (<i>Corvus brachyrhynchos</i>)	Agriculture, Pastures, and Mixed Environs Urban and Mixed Environs
3_16	Organismal relationships: Interspecific hybridization	Oregon spotted frog (<i>Rana pretiosa</i>)	Open Water–Lakes, Rivers, and Streams
3_16	Organismal relationships: Interspecific hybridization	American crow (<i>Corvus brachyrhynchos</i>)	Urban and Mixed Environs
3_2	Organismal relationships: Controls terrestrial vertebrate populations (through predation or displacement)	Raccoon (<i>Procyon lotor</i>)	Urban and Mixed Environs

KEF Code	KEF Description	Species	Wildlife-Habitat Type
3_3	Organismal relationships: Pollination vector	Black-chinned hummingbird (<i>Archilochus alexandri</i>)	Shrub-steppe Dwarf Shrub-steppe Desert Playa and Salt Scrub Shrublands
3_3	Organismal relationships: Pollination vector	Rufous hummingbird (<i>Selasphorus rufus</i>)	Alpine Grasslands and Shrublands
3_4_1	Organismal relationships: Transportation of viable seeds, spores, plants or animals: Disperses fungi	Deer Mouse (<i>Peromyscus maniculatus</i>)	Agriculture, Pastures, and Mixed Environs Urban and Mixed Environs
3_4_4	Organismal relationships: Transportation of viable seeds, spores, plants or animals: Disperses insects and other invertebrates	Golden-mantled ground squirrel (<i>Spermophilus lateralis</i>)	Lodgepole Pine Forest and Woodlands Upland Aspen Forest Interior Canyon Shrublands
3_4_6	Organismal relationships: Transportation of viable seeds, spores, plants or animals: Disperses vascular plants	Golden-mantled ground squirrel (<i>Spermophilus lateralis</i>)	Upland Aspen Forest Western Juniper and Mountain Mahogany Woodlands Interior Canyon Shrublands
3_5_1	Organismal relationships: Creates feeding, roosting, denning, or nesting opportunities for other organisms: Creates feeding opportunities (other than direct prey relations)	Great blue heron (<i>Ardea herodias</i>)	Open Water–Lakes, Rivers, and Streams
3_5_1	Organismal relationships: Creates feeding, roosting, denning, or nesting opportunities for other organisms:	Mountain lion (<i>Puma concolor</i>)	Western Juniper and Mountain Mahogany Woodlands Interior Canyon Shrublands

KEF Code	KEF Description	Species	Wildlife-Habitat Type
	Creates feeding opportunities (other than direct prey relations)		
3_5_1_1	Organismal relationships: Creates feeding, roosting, denning, or nesting opportunities for other organisms: Creates feeding opportunities: Creates sapwells in trees	Williamson's sapsucker (<i>Sphyrapicus thyroideus</i>)	Western Juniper and Mountain Mahogany Woodlands Interior Canyon Shrublands
3_5_2	Organismal relationships: Creates feeding, roosting, denning, or nesting opportunities for other organisms: Creates roosting, denning, or nesting opportunities	Great blue heron (<i>Ardea herodias</i>)	Open Water-Lakes, Rivers, and Streams Herbaceous Wetlands Interior Riparian-Wetlands
3_5_2	Organismal relationships: Creates feeding, roosting, denning, or nesting opportunities for other organisms: Creates roosting, denning, or nesting opportunities	Red squirrel (<i>Tamiasciurus hudsonicus</i>)	Montane Mixed Conifer Forest Interior Mixed Conifer Forest Lodgepole Pine Forest and Woodlands Ponderosa Pine & Interior White Oak Forest and Woodlands
3_6_2	Organismal relationships: Primary creation of structures (possibly used by other organisms): Ground structures	Bushy-tailed woodrat (<i>Neotoma cinerea</i>)	Upland Aspen Forest Agriculture, Pastures, and Mixed Environs Montane Coniferous Wetlands Interior Riparian-Wetlands
3_6_3	Organismal relationships: Primary creation of structures (possibly used by other organisms):	American beaver (<i>Castor Canadensis</i>)	Montane Mixed Conifer Forest Interior Mixed Conifer Forest

KEF Code	KEF Description	Species	Wildlife-Habitat Type
	Aquatic structures		Lodgepole Pine Forest and Woodlands Ponderosa Pine & Interior White Oak Forest and Woodlands Upland Aspen Forest Western Juniper and Mountain Mahogany Woodlands Montane Coniferous Wetlands
3_7_1	Organismal relationships: User of structures created by other species: Aerial structures	Black tern (<i>Chlidonias niger</i>)	Open Water–Lakes, Rivers, and Streams
3_7_1	Organismal relationships: User of structures created by other species: Aerial structures	Great horned owl (<i>Bubo virginianus</i>)	Desert Playa and Salt Scrub Shrublands
3_7_2	Organismal relationships: User of structures created by other species: Ground structures	Deer mouse (<i>Peromyscus maniculatus</i>)	Montane Mixed Conifer Forest Upland Aspen Forest Alpine Grasslands and Shrublands Desert Playa and Salt Scrub Shrublands Agriculture, Pastures, and Mixed Environs Urban and Mixed Environs Montane Coniferous Wetlands
3_7_3	Organismal relationships: User of structures created by other species:	Mink (<i>Mustela vison</i>)	Lodgepole Pine Forest and Woodlands Upland Aspen Forest

KEF Code	KEF Description	Species	Wildlife-Habitat Type
	Aquatic structures		Western Juniper and Mountain Mahogany Woodlands Interior Canyon Shrublands Interior Grasslands Shrub-steppe Desert Playa and Salt Scrub Shrublands
3_8_1	Organismal relationships: Nest parasite: Interspecies parasite	Redhead (<i>Aythya americana</i>)	Open Water–Lakes, Rivers, and Streams
3_8_1	Organismal relationships: Nest parasite: Interspecies parasite	Brown-headed cowbird (<i>Molothrus ater</i>)	Montane Mixed Conifer Forest Interior Mixed Conifer Forest Lodgepole Pine Forest and Woodlands Ponderosa Pine & Interior White Oak Forest and Woodlands Upland Aspen Forest Western Juniper and Mountain Mahogany Woodlands Interior Canyon Shrublands Interior Grasslands Shrub-steppe Dwarf Shrub-steppe Desert Playa and Salt Scrub Shrublands Agriculture, Pastures, and Mixed Environs Montane Coniferous Wetlands
3_8_2	Organismal relationships:	Greater scaup (<i>Aythya marila</i>)	Open Water–Lakes, Rivers, and Streams

KEF Code	KEF Description	Species	Wildlife-Habitat Type
	Nest parasite: Common interspecific host		
3_8_2	Organismal relationships: Nest parasite: Common interspecific host	House finch	Urban and Mixed Environs
4	Carrier, transmitter, or reservoir of vertebrate diseases	Sagebrush vole (<i>Lemmiscus curtatus</i>)	Interior Grasslands Shrub-steppe Dwarf Shrub-steppe
4_2	Carrier, transmitter, or reservoir of vertebrate diseases: Diseases that affect domestic animals	Double-crested cormorant (<i>Phalacrocorax auritus</i>)	Open Water–Lakes, Rivers, and Streams Herbaceous Wetlands Interior Riparian- Wetlands
4_3	Carrier, transmitter, or reservoir of vertebrate diseases: Diseases that affect other wildlife species	Common porcupine (<i>Erethizon dorsatum</i>)	Montane Coniferous Wetlands
6_1	Wood structure relationships (either living or dead wood): Physically fragments down wood	White-tailed deer (eastside) (<i>Odocoileus virginianus ochrourus</i>)	Agriculture, Pastures, and Mixed Environs
7_1	Water relationships: Impounds water by creating diversions or dams	American beaver (<i>Castor canadensis</i>)	Montane Mixed Conifer Forest Interior Mixed Conifer Forest Lodgepole Pine Forest and Woodlands Ponderosa Pine & Interior White Oak Forest and Woodlands Upland Aspen Forest Western Juniper and Mountain Mahogany Woodlands Open Water–Lakes, Rivers, and Streams

KEF Code	KEF Description	Species	Wildlife-Habitat Type
			Herbaceous Wetlands Montane Coniferous Wetlands Interior Riparian-Wetlands
7_2	Water relationships: Creates ponds or wetlands through wallowing	American beaver (<i>Castor canadensis</i>)	Open Water–Lakes, Rivers, and Streams
7_2	Water relationships: Creates ponds or wetlands through wallowing	Feral horse (<i>Equus caballus</i>)	Desert Playa and Salt Scrub Shrublands
7_2	Water relationships: Creates ponds or wetlands through wallowing	Rocky mountain elk (<i>Cervus elaphus nelsoni</i>)	Alpine Grasslands and Shrublands Interior Canyon Shrublands
8_3	Vegetation structure and composition relationships: Herbivory on grasses or forbs that may alter vegetation structure and composition (grazers)	Canada goose (<i>Branta canadensis</i>)	Open Water–Lakes, Rivers, and Streams
8_3	Vegetation structure and composition relationships: Herbivory on grasses or forbs that may alter vegetation structure and composition (grazers)	Montane vole (<i>Microtus montanus</i>)	Agriculture, Pastures, and Mixed Environs

Appendix G. Raw data and results of the qualitative habitat assessment (QHA) model

Various input and output information from the QHA model is presented to provide transparency regarding data inputs and allow readers the opportunity to consider possible alternative interpretations of outputs. All data inputs represent professional judgments since no suitable and timely method could be developed for defensibly transforming real habitat data into categorical classifications used by the QHA model. Regional biologists within IDFG and ODFW most familiar with the streams of interest populated the QHA model, and their input was subsequently reviewed by the subbasin aquatic technical team. No changes were requested or made to original data inputs based on technical team review.

The following information is presented by focal species (*e.g.*, redband trout, bull trout, mountain whitefish, Bruneau hot springsnail, Idaho springsnail) in this appendix:

Model Inputs:

1. Existing conditions
2. Reference conditions
3. Species habitat hypotheses
4. Species use/distribution

Model Outputs:

1. Habitat scores
2. Habitat ranks

Readers interested in detailed explanation of the QHA model development and function are referred to the QHA users guide (Mobrand Biometrics 2003).

Existing Conditions–Redband Trout

Scoring	
Confidence Rating	Attribute Rating
0 = Unknown	0 = 0% of normative
1 = Expert Opinion	1 = 25% of normative
2 = Well Documented	2 = 50% of normative
	3 = 75% of normative
Definitions	4 = 100% of normative

Describe the natural physical condition of the stream

Stream Name: Bruneau Subbasin

Describe the current condition for this stream in regard to the physical conditions in this ecological province.

HUC_6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
0102	Bruneau 2	1.0	2.0	0.0	1.0	2.0	0.0	1.0	4.0	1.0	1.0	1.0
0401	Bruneau 3	2.8	4.0	3.0	3.0	4.0	3.5	2.0	4.0	2.8	3.0	4.0
0402	Bruneau 4	3.0	4.0	3.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0
0501	Bruneau 5	3.0	4.0	3.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0
0502	Clover 1	4.0	3.5	3.0	2.3	4.0	0.7	1.3	4.0	0.8	3.5	4.0
0503	Clover 2	2.0	2.0	1.7	2.0	4.0	0.7	1.3	4.0	0.8	3.5	3.0
0801	Clover 3	2.7	2.0	2.0	2.0	4.0	0.7	1.3	4.0	0.8	3.5	3.0
0802	Clover 4	2.7	2.0	3.0	2.0	4.0	0.7	1.3	4.0	0.8	3.5	3.0
1001	Deadwood	2.7	2.0	2.3	2.0	4.0	1.3	1.3	4.0	1.2	3.5	3.0
1002	Lower Three	2.8	2.3	2.6	2.3	4.0	1.5	2.0	4.0	1.4	3.6	3.3
1003	DEER	3.0	2.0	2.5	2.0	4.0	1.0	1.3	4.0	1.2	3.5	3.0
1004	Upper Three	2.7	1.0	2.0	2.0	4.0	1.0	1.3	4.0	1.2	3.5	4.0
1101	Big Flat Creek	2.7	2.0	2.0	2.0	4.0	1.0	1.3	4.0	1.2	3.5	4.0
1202	Flat and Coudle	2.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0	3.0	4.0	3.0
1501	Jarbidge 3	3.0	3.0	4.0	3.0	4.0	4.0	4.0	4.0	3.0	3.0	4.0
1601	E. Frk Jarbidge 1	2.0	3.0	3.0	2.0	4.0	3.0	4.0	4.0	2.0	4.0	4.0
1602	E.Frk Jarbidge 2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1701	Jarbidge 4	3.0	3.0	4.0	3.0	4.0	4.0	4.0	4.0	3.0	3.0	4.0
1702	Jarbidge 5	2.5	2.5	2.5	3.0	3.0	3.0	4.0	3.0	2.5	3.0	4.0
1801	Jarbidge 2	2.3	3.0	3.3	2.3	4.0	3.3	4.0	3.0	2.0	4.0	4.0
1802	Jarbidge 3	2.3	3.0	3.0	2.3	4.0	3.3	4.0	3.0	2.0	4.0	4.0
2101	Bruneau 11	4.0	3.0	4.0	3.5	4.0	4.0	4.0	4.0	3.5	4.0	4.0
2102	Coon	3.0	3.0	3.5	3.5	3.5	4.0	4.0	3.5	3.0	4.0	4.0
2103	Bruneau 13	4.0	3.0	3.5	3.5	4.0	4.0	4.0	4.0	3.5	4.0	4.0
2201	Bruneau 12	3.5	3.5	3.5	3.5	3.5	4.0	4.0	4.0	3.5	4.0	4.0
2202	Bruneau 14	3.0	3.0	3.0	3.5	4.0	2.0	4.0	4.0	3.0	4.0	2.5
2203	Seventysix	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0	2.0
2302	Willow Creek/tribs	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.5	3.0	4.0	4.0

HUC_6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
2501	Meadow	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.0	3.0	3.0
2502	Telephone	1.5	1.5	1.8	1.5	1.8	1.8	1.8	2.9	1.5	1.8	1.8
2602	McDonalds	3.0	2.8	3.0	3.0	3.0	3.0	3.0	3.5	3.0	3.0	2.0
2701	Bruneau 8	2.5	3.0	2.5	2.0	3.5	2.0	3.0	3.0	2.0	4.0	4.0
2801	Jarbidge 1	2.3	3.0	3.0	3.0	4.0	3.0	3.0	3.0	2.0	4.0	4.0
2803	Bruneau 7	2.8	3.0	2.8	2.0	4.0	2.0	3.0	3.0	2.0	4.0	4.0
2901	Cat	1.8	2.0	2.0	3.0	4.0	1.8	3.0	2.0	2.0	4.0	2.8
2902	Pole	3.0	2.0	2.0	3.0	4.0	3.0	3.0	3.0	3.0	4.0	3.0
2903	Sheep 4	3.0	3.3	3.3	3.3	4.0	3.3	3.3	3.3	3.3	4.0	3.3
2904	Sheep 3	2.7	2.0	2.0	3.0	3.0	2.0	3.0	3.0	2.8	4.0	3.0
3101	Sheep 3	3.0	2.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	4.0	3.0
3301	Marys 1	2.8	3.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	4.0	3.0
3303	Marys 2	3.0	3.0	3.0	3.0	3.0	2.0	4.0	3.0	2.8	4.0	3.0
3401	Sheep 1	3.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0	2.0	4.0	4.0
3501	Bruneau 6	3.0	3.0	3.0	2.0	4.0	3.0	3.0	3.0	2.0	4.0	4.0
3601	Louse 1	2.0	3.0	2.0	2.0	1.0	1.0	2.0	2.0	1.3	4.0	0.0
3602	Louse 2	2.5	2.7	2.7	2.0	3.0	2.0	3.0	3.0	3.0	4.0	0.0
3801	Wickahoney 1	3.0	3.0	2.0	3.0	4.0	2.0	3.7	4.0	2.0	4.0	4.0
3802	Wickahoney 2	1.0	2.0	1.0	1.2	4.0	2.0	3.7	4.0	2.0	3.7	0.0
3803	Duncan	2.8	3.0	2.5	4.0	4.0	2.0	3.7	4.0	2.3	3.7	4.0
3901	Cottonwood	4.0	3.8	3.0	4.0	4.0	3.0	4.0	4.0	3.3	4.0	2.0
3902	Big Jacks 2	3.0	3.0	3.0	3.0	4.0	2.7	3.7	4.0	3.0	3.7	2.0
4101	Little Jacks 2	4.0	3.0	4.0	4.0	4.0	3.0	4.0	4.0	4.0	4.0	4.0
4102	Little Jacks 3	2.3	3.0	3.0	3.0	4.0	2.3	3.0	3.0	3.0	4.0	3.0
4201	Big Jacks 1	2.2	2.5	2.0	3.0	4.0	2.0	3.0	4.0	1.5	2.3	3.0
4202	Little Jacks 1	4.0	2.7	3.8	4.0	4.0	2.0	3.7	4.0	3.7	3.7	3.0
4401	Merritt	2.1	2.9	3.0	3.0	4.0	2.8	4.0	4.0	3.0	4.0	2.5
4402	Willis	2.0	2.0	2.0	2.0	3.0	2.0	3.0	3.0	2.0	3.0	2.5

Reference Conditions–Redband Trout

Scoring	
Confidence Rating	Attribute Rating
0 = Unknown	0 = 0% of normative
1 = Expert Opinion	1 = 25% of normative
2 = Well Documented	2 = 50% of normative
	3 = 75% of normative
Definitions	4 = 100% of normative

Describe the natural physical condition of the stream

Stream Name: Bruneau Subbasin

Describe the current condition for this stream in regard to the physical conditions in this ecological province.

HUC_6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
0102	Bruneau 2	3.0	4.0	3.0	4.0	2.0	4.0	3.0	4.0	3.0	4.0	4.0
0401	Bruneau 3	3.0	4.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	4.0	4.0
0402	Bruneau 4	3.0	4.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	4.0	4.0
0501	Bruneau 5	3.0	4.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	4.0	4.0
0502	Clover 1	4.0	4.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	4.0	4.0
0503	Clover 2	3.3	3.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	4.0	4.0
0801	Clover 3	3.3	3.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	4.0	4.0
0802	Clover 4	3.3	3.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	4.0	4.0
1001	Deadwood	3.3	3.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	4.0	4.0
1002	Lower Three	3.3	3.3	4.0	4.0	4.0	3.3	4.0	3.3	4.0	4.0	3.3
1003	DEER	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1004	Upper Three	3.3	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1101	Big Flat Creek	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1202	Flat and Coudle	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1501	Jarbidge 3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
1601	E. Frk Jarbidge 1	3.0	4.0	4.0	3.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
1602	E.Frk Jarbidge 2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1701	Jarbidge 4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
1702	Jarbidge 5	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
1801	Jarbidge 2	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
1802	Jarbidge 3	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
2101	Bruneau 11	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2102	Coon	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2103	Bruneau 13	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2201	Bruneau 12	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2202	Bruneau 14	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2203	Seventysix	3.0	3.0	3.0	3.0	3.5	3.0	3.0	3.5	2.5	4.0	4.0
2302	Willow Creek/ tribs	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

HUC_6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
2501	Meadow	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2502	Telephone	3.5	3.5	3.5	3.5	3.5	2.5	2.5	3.8	2.5	4.0	4.0
2602	McDonalds	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2701	Bruneau 8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2801	Jarbidge 1	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
2803	Bruneau 7	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
2901	Cat	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
2902	Pole	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
2903	Sheep 4	3.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.3	4.0	4.0
2904	Sheep 3	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
3101	Sheep 3	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
3301	Marys 1	3.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0
3303	Marys 2	3.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0
3401	Sheep 1	3.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0
3501	Bruneau 6	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
3601	Louse 1	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
3602	Louse 2	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
3801	Wickahoney 1	4.0	4.0	4.0	4.0	4.0	2.0	4.0	4.0	2.0	4.0	4.0
3802	Wickahoney 2	4.0	4.0	4.0	4.0	4.0	2.0	4.0	4.0	2.0	4.0	4.0
3803	Duncan	4.0	4.0	4.0	4.0	4.0	2.0	3.3	4.0	2.0	4.0	4.0
3901	Cottonwood	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	2.0
3902	Big Jacks 2	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	2.0
4101	Little Jacks 2	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	2.0
4102	Little Jacks 3	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	2.0
4201	Big Jacks 1	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0	2.0	4.0	3.0
4202	Little Jacks 1	4.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0
4401	Merritt	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
4402	Willis	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Species Hypothesis–Redband Trout

	Spawning/incubation	Summer Rearing	Winter Rearing	Migration
Life Stage Rank (1-4)	3.0	3.0	3.0	2.0

Assign a weight to each attribute (0-2) relative to its importance to the life stage

Riparian Condition	1.0	2.0	2.0	0.5
Channel stability	2.0	2.0	2.0	0.5
Habitat Diversity	1.0	2.0	2.0	0.5
Fine sediment	2.0	2.0	2.0	0.5
High Flow	2.0	1.0	1.0	0.5
Low Flow	2.0	2.0	2.0	2.0
Oxygen	2.0	2.0	2.0	2.0
Low Temp	0.5	0.0	0.0	0.0
High Temp	2.0	2.0	2.0	2.0
Pollutants	2.0	2.0	2.0	2.0
Obstructions	2.0	2.0	2.0	2.0

Species Range–Redband Trout

Reach Name	Current Range (0-4)				Reference Range (0-4)				HUC_6
	Spawn and incubation	Summer rearing	Winter rearing	Migration	Spawn and incubation	Summer rearing	Winter rearing	Migration	
Bruneau 2	0.0	0.8	0.8	0.8	0.0	1.0	1.0	1.0	0102
Bruneau 3	0.0	0.8	0.8	1.0	1.0	1.0	1.0	1.0	0401
Bruneau 4	0.0	1.0	1.0	2.0	0.0	1.0	1.0	2.0	0402
Bruneau 5	0.0	1.0	1.0	2.0	0.0	1.0	1.0	2.0	0501
Clover 1	0.0	0.5	0.8	1.3	1.0	1.5	1.5	1.5	0502
Clover 2	0.0	0.0	0.0	0.3	1.0	1.0	1.5	1.0	0503
Clover 3	0.0	0.0	0.3	0.0	1.0	1.0	1.5	0.5	0801
Clover 4	0.0	0.0	0.3	0.0	1.0	1.0	1.5	0.5	0802
Deadwood	0.0	0.0	0.5	0.0	0.5	0.5	1.0	0.0	1001
Lower Three	0.0	0.0	0.3	0.0	1.0	1.0	1.5	1.0	1002
DEER	1.0	1.5	1.5	0.5	1.0	1.8	1.5	1.0	1003
Upper Three	0.8	1.2	1.2	0.0	1.5	1.5	1.5	0.5	1004
Big Flat Creek	0.0	0.0	0.5	0.0	1.0	1.0	1.0	0.5	1101
Flat and Coudle	0.8	1.3	1.3	0.0	1.5	1.5	1.0	0.0	1202
Jarbidge 3	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	1501
E. Frk Jarbidge 1	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	1601
E.Frk Jarbidge 2	1.3	1.3	1.3	1.0	1.5	1.5	1.5	1.0	1602
Jarbidge 4	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	1701
Jarbidge 5	1.3	1.3	1.3	1.0	1.5	1.5	1.5	1.0	1702
Jarbidge 2	1.3	1.3	1.3	1.0	1.5	1.5	1.5	1.0	1801
Jarbidge 3	1.3	1.3	1.3	1.0	1.5	1.5	1.5	1.0	1802
Bruneau 11	1.5	2.0	2.0	2.0	1.5	2.0	2.0	2.0	2101
Coon	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2102
Bruneau 13	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2103
Bruneau 12	1.5	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2201
Bruneau 14	1.5	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2202
Seventysix	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2203
Willow Creek/tribs	1.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0	2302

Reach Name	Current Range (0-4)				Reference Range (0-4)				HUC_6
	Spawn and incubation	Summer rearing	Winter rearing	Migration	Spawn and incubation	Summer rearing	Winter rearing	Migration	
Meadow	2.0	1.0	1.0	2.0	2.0	1.0	1.0	2.0	2501
Telephone	2.0	2.0	1.0	2.0	2.0	2.0	1.0	2.0	2502
McDonalds	1.0	1.0	1.0	0.5	2.0	2.0	2.0	2.0	2602
Bruneau 8	0.8	1.0	1.0	1.3	1.0	1.0	1.0	1.5	2701
Jarbidge 1	1.0	1.2	1.2	1.0	1.0	1.5	1.5	1.0	2801
Bruneau 7	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2803
Cat	1.2	1.2	1.2	1.0	1.5	1.5	1.5	1.0	2901
Pole	1.7	1.3	1.3	1.9	2.0	1.5	1.5	2.0	2902
Sheep 4	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	2903
Sheep 3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2904
Sheep 3	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	3101
Marys 1	0.0	0.8	0.8	1.0	0.0	1.0	1.0	1.0	3301
Marys 2	1.3	1.3	1.3	1.0	1.5	1.5	1.5	1.0	3303
Sheep 1	0.8	1.0	1.0	1.3	1.0	1.0	1.0	1.5	3401
Bruneau 6	0.8	1.0	1.0	1.3	1.2	1.3	1.3	1.5	3501
Louse 1	1.0	1.0	1.0	0.0	2.0	1.0	1.0	2.0	3601
Louse 2	1.0	1.0	1.0	0.0	2.0	1.0	1.0	2.0	3602
Wickahoney 1	1.0	0.8	0.8	0.0	1.0	1.0	1.0	0.0	3801
Wickahoney 2	1.0	1.0	1.0	0.0	2.0	1.0	1.0	2.0	3802
Duncan	1.3	1.3	1.3	1.0	1.5	1.5	1.5	1.3	3803
Cottonwood	1.3	1.3	1.3	1.0	1.5	1.5	1.5	1.0	3901
Big Jacks 2	1.3	1.3	1.3	0.0	1.5	1.5	1.5	1.0	3902
Little Jacks 2	1.3	1.3	1.3	0.0	1.5	1.5	1.5	0.0	4101
Little Jacks 3	1.3	1.3	1.3	0.0	1.5	1.5	1.5	0.0	4102
Big Jacks 1	0.8	1.2	1.2	1.0	1.0	1.8	1.5	1.5	4201
Little Jacks 1	1.3	1.3	1.3	0.0	1.5	1.5	1.5	1.0	4202
Merritt	0.5	0.5	0.5	1.0	2.0	1.5	1.5	1.5	4401
Willis	0.5	0.5	0.5	1.0	2.0	2.0	1.5	2.0	4402

Habitat Scores--Redband Trout

Reach Name	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions																		
Bruneau 2	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.1	0.2	0.1	0.1	0.2	0.2	0.0	0.4	0.2	0.0	0.2	0.3	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.0	0.4	0.2	0.0	0.2	0.3	0.3			
Bruneau 3	-0.2	-0.2	-0.3	-0.2	-0.2	-0.1	-0.3	-0.2	0.0	-0.2	-0.2	-0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	
Bruneau 4	-0.3	-0.2	-0.3	-0.2	-0.2	-0.2	-0.2	-0.3	0.0	-0.2	-0.3	-0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.1	0.1	0.0	0.0
Bruneau 5	-0.3	-0.2	-0.3	-0.2	-0.2	-0.2	-0.2	-0.3	0.0	-0.2	-0.3	-0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.1	0.1	0.1	0.0	0.0
Clover 1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.3	-0.3	0.1	0.0	0.1	0.0	0.2	0.0	0.6	0.3	0.0	0.0	0.4	0.1	0.0	0.2	0.1	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.6	0.3	0.0	0.4	0.1	0.1	0.0	0.0
Clover 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.3	0.0	0.5	0.2	0.0	0.0	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.3	0.0	0.5	0.2	0.0	0.3	0.1	0.1	0.1	0.0	0.0	
Clover 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.2	0.0	0.4	0.2	0.0	0.0	0.3	0.1	0.1	0.2	0.1	0.1	0.0	0.2	0.0	0.4	0.2	0.0	0.3	0.1	0.1	0.1	0.0	0.0	0.0	
Clover 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.2	0.0	0.4	0.2	0.0	0.0	0.3	0.1	0.1	0.2	0.1	0.1	0.0	0.2	0.0	0.4	0.2	0.0	0.3	0.1	0.1	0.1	0.0	0.0	0.0	
Deadwood	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.2	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.2	0.1	0.0	0.1	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0	
Lower Three	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.0	0.2	0.3	0.0	0.0	0.4	0.1	0.0	0.2	0.1	0.1	0.1	0.0	0.2	0.0	0.3	0.0	0.4	0.1	0.0	0.0	0.0	0.0		
DEER	-0.3	-0.4	-0.3	-0.3	-0.3	-0.4	-0.1	-0.2	0.0	-0.2	-0.5	-0.4	0.2	0.1	0.3	0.2	0.3	0.0	0.5	0.4	0.0	0.0	0.5	0.1	0.2	0.2	0.1	0.1	0.0	0.2	0.0	0.4	0.0	0.5	0.4	0.0	0.5	0.1	0.2	0.0	0.0	
Upper Three	-0.2	-0.3	-0.1	-0.2	-0.2	-0.3	-0.1	-0.1	0.0	-0.1	-0.4	-0.4	0.2	0.1	0.3	0.1	0.3	0.0	0.5	0.4	0.0	0.0	0.5	0.1	0.0	0.2	0.1	0.1	0.0	0.3	0.0	0.4	0.0	0.5	0.1	0.0	0.0	0.0	0.0			
Big Flat Creek	-0.3	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4	-0.4	0.0	-0.3	-0.4	-0.3	0.1	0.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.2	0.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0		
Flat and Coule	-0.7	-0.5	-0.6	-0.7	-0.6	-0.6	-0.9	-0.9	-0.1	-0.7	-0.7	-0.9	0.1	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Jarbidge 3	-0.6	-0.4	-0.6	-0.5	-0.4	-0.6	-0.7	-0.9	-0.1	-0.5	-0.9	-0.9	0.1	0.2	0.2	0.2	0.2	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0		
E. Frk	-0.5	-0.5	-0.6	-0.5	-0.6	-0.4	-0.6	-0.6	0.0	-0.6	-0.6	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Reach Name	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Jarbridge 1												
E.Frk Jarbridge 2	-0.7	-0.5	-0.6	-0.7	-0.6	-0.6	-0.9	-0.9	-0.1	-0.7	-0.7	-0.9
Jarbridge 4	-0.4	-0.3	-0.4	-0.3	-0.4	-0.3	-0.5	-0.6	0.0	-0.4	-0.5	-0.6
Jarbridge 5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.5	-0.6	0.0	-0.3	-0.6	-0.6
Jarbridge 2	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.5	-0.6	0.0	-0.3	-0.6	-0.6
Jarbridge 3	-0.7	-0.7	-0.6	-0.7	-0.7	-0.5	-0.9	-0.9	-0.1	-0.8	-0.9	-0.9
Bruneau 11	-0.7	-0.5	-0.6	-0.6	-0.8	-0.5	-1.0	-1.0	-0.1	-0.8	-1.0	-1.0
Coon	-0.8	-0.7	-0.6	-0.6	-0.8	-0.6	-1.0	-1.0	-0.1	-0.9	-1.0	-1.0
Bruneau 13	-0.5	-0.4	-0.5	-0.4	-0.5	-0.3	-0.7	-0.7	-0.1	-0.6	-0.7	-0.7
Bruneau 12	-0.4	-0.3	-0.4	-0.3	-0.5	-0.4	-0.3	-0.7	-0.1	-0.5	-0.7	-0.4
Bruneau 14	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.5	-0.5	-0.1	-0.5	-0.5	-0.5
Seventysix	-0.3	-0.2	-0.3	-0.3	-0.3	-0.2	-0.4	-0.4	0.0	-0.4	-0.5	-0.5
Willow Creek & tribs												
Meadow	-0.3	-0.2	-0.3	-0.3	-0.4	-0.3	-0.5	-0.5	-0.1	-0.5	-0.5	-0.5
Telephone	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.3	0.0	-0.3	-0.3	-0.2
McDonalds	-0.3	-0.2	-0.3	-0.2	-0.2	-0.2	-0.3	-0.4	0.0	-0.3	-0.5	-0.5
Bruneau 8	-0.3	-0.2	-0.4	-0.3	-0.4	-0.3	-0.4	-0.4	0.0	-0.3	-0.5	-0.5
	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.0	0.2	0.0	0.0
	0.1	0.2	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0
	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.0	0.0	0.1	0.2	0.0
	0.1	0.1	0.2	0.1	0.3	0.0	0.1	0.0	0.0	0.2	0.0	0.0
	0.1	0.1	0.2	0.1	0.3	0.0	0.1	0.0	0.0	0.2	0.0	0.0
	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.3	0.0	0.0
	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.3	0.0	0.0
	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0
	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.0	0.1	0.5	0.5
	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.0	0.2	0.0	0.0
	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.2	0.2	0.2
	0.3	0.3	0.4	0.3	0.4	0.2	0.2	0.2	0.0	0.2	0.5	0.5
	0.2	0.2	0.3	0.2	0.2	0.1	0.3	0.3	0.0	0.3	0.3	0.5
	0.1	0.1	0.1	0.1	0.2	0.0	0.3	0.1	0.0	0.3	0.0	0.0
	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.0	0.2	0.0	0.0

Reach Name	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions	
Bruneau 9	-0.3	-0.2	-0.3	-0.2	-0.2	-0.3	-0.2	-0.4	0.0	-0.2	-0.5	-0.5	0.1	0.0	0.1	0.1	0.2	0.0	0.3	0.1	0.0	0.1	0.0	0.0	0.0
Jarbridge 1	-0.3	-0.2	-0.3	-0.2	-0.4	-0.3	-0.3	-0.4	0.0	-0.3	-0.6	-0.4	0.2	0.2	0.3	0.3	0.2	0.0	0.4	0.2	0.0	0.2	0.0	0.0	0.2
Bruneau 7	-0.4	-0.4	-0.3	-0.2	-0.5	-0.4	-0.6	-0.6	0.0	-0.6	-0.7	-0.6	0.1	0.0	0.4	0.3	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.2
Cat	-0.3	-0.3	-0.4	-0.3	-0.4	-0.3	-0.4	-0.4	0.0	-0.4	-0.5	-0.4	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1
Pole	-0.3	-0.2	-0.2	-0.2	-0.3	-0.2	-0.3	-0.4	0.0	-0.4	-0.5	-0.4	0.1	0.0	0.2	0.2	0.1	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.1
Sheep 4	-0.2	-0.2	-0.1	-0.1	-0.2	-0.1	-0.2	-0.3	0.0	-0.3	-0.4	-0.3	0.1	0.0	0.1	0.1	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.1
Sheep 3	-0.2	-0.2	-0.2	-0.1	-0.2	-0.1	-0.2	-0.2	0.0	-0.2	-0.3	-0.2	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.1
Sheep 3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.6	0.0	-0.5	-0.6	-0.5	0.1	0.0	0.2	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.2
Marys 1	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.3	-0.4	0.0	-0.3	-0.5	-0.5	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0
Marys 2	-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.4	-0.4	0.0	-0.3	-0.5	-0.5	0.1	0.0	0.1	0.1	0.3	0.0	0.2	0.2	0.0	0.2	0.0	0.0	0.0
Sheep 1	-0.2	-0.2	-0.3	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.1	-0.4	0.0	0.3	0.1	0.1	0.2	0.3	0.3	0.5	0.4	0.0	0.3	0.0	0.0	0.7
Bruneau 6	-0.2	-0.2	-0.3	-0.2	-0.2	-0.2	-0.2	-0.3	0.0	-0.3	-0.4	0.0	0.2	0.1	0.2	0.2	0.3	0.1	0.4	0.2	0.0	0.0	0.0	0.0	0.7
Louse 1	-0.2	-0.2	-0.3	-0.1	-0.3	-0.3	-0.2	-0.3	0.0	-0.2	-0.4	-0.4	0.0	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Louse 2	-0.2	-0.1	-0.2	-0.1	-0.1	-0.3	-0.2	-0.4	0.0	-0.2	-0.4	0.0	0.2	0.3	0.3	0.3	0.4	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.7
Wickahoney 1	-0.4	-0.3	-0.4	-0.3	-0.6	-0.4	-0.3	-0.6	0.0	-0.4	-0.6	-0.6	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0
Wickahoney 2	-0.5	-0.5	-0.5	-0.4	-0.6	-0.4	-0.5	-0.6	0.0	-0.5	-0.6	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Duncan	-0.4	-0.3	-0.4	-0.3	-0.4	-0.4	-0.4	-0.5	0.0	-0.4	-0.5	-0.3	0.1	0.1	0.2	0.0	0.2	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0
Cottonwood	-0.4	-0.5	-0.4	-0.5	-0.5	-0.4	-0.4	-0.5	0.0	-0.5	-0.5	-0.5	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3

Reach Name	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Big Jacks 2	-0.4	-0.3	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	0.0	-0.4	-0.5	-0.4
Little Jacks 2	-0.3	-0.2	-0.3	-0.2	-0.3	-0.3	-0.3	-0.4	0.0	-0.2	-0.3	-0.4
Little Jacks 3	-0.4	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.5	0.0	-0.5	-0.5	-0.4
Big Jacks 1	-0.2	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.3	0.0	-0.2	-0.3	-0.2
Little Jacks 1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	-0.1	-0.2	-0.2
Merritt	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-0.1
Willis	-0.2	-0.2	-0.3	-0.2	-0.2	-0.1	-0.3	-0.2	0.0	-0.2	-0.2	-0.3
	0.1	0.2	0.2	0.0	0.2	0.0	0.1	0.2	0.0	0.0	0.0	0.2
	0.2	0.3	0.2	0.3	0.2	0.0	0.2	0.2	0.0	0.1	0.3	0.0
	0.1	0.0	0.1	0.0	0.0	0.0	0.4	0.1	0.0	0.1	0.1	0.0
	0.1	0.3	0.2	0.1	0.2	0.0	0.3	0.0	0.0	0.2	0.0	0.3
	0.3	0.3	0.4	0.3	0.4	0.1	0.5	0.2	0.0	0.5	0.2	0.3
	0.2	0.1	0.1	0.2	0.2	0.0	0.4	0.2	0.0	0.2	0.3	0.3
	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.0

Habitat Ranking--Redband Trout

Reach Name	Habitat Ranking--Redband Trout										Habitat Ranking--Redband Trout													
	Reach Rank	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions	Reach Rank	Riparian Condition	Channel form	Channel complexity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Bruneau 2	50	7	1	9	7	6	9	2	9	2	2	2	10	8	8	4	4	10	1	6	10	6	2	2
Bruneau 3	43	8	3	6	6	10	2	9	11	5	4	1	52	6	7	7	3	7	4	1	7	5	1	7
Bruneau 4	37	5	4	5	5	10	8	2	11	8	2	1	48	5	5	4	5	5	1	5	5	2	2	5
Bruneau 5	37	5	4	5	5	10	8	2	11	8	2	1	48	5	5	4	5	5	1	5	5	2	2	5
Clover 1	48	3	4	5	6	7	10	8	11	9	2	1	17	7	6	7	4	7	1	3	7	2	5	7
Clover 2	56	7	7	10	7	4	6	3	11	5	1	2	11	5	8	6	3	10	1	4	10	2	9	7
Clover 3	55	3	4	4	4	4	10	8	11	9	1	2	15	8	6	7	3	10	1	4	10	2	9	5
Clover 4	54	4	5	2	5	5	10	8	11	9	1	2	18	7	6	9	3	9	1	4	9	2	8	5
Deadwood	52	3	5	4	5	5	8	8	11	0	1	2	40	7	5	8	2	10	1	4	10	3	9	5
Lower Three	53	3	5	4	5	7	9	7	11	0	1	2	21	7	6	5	4	9	3	2	11	1	8	9
DEER	33	3	6	5	6	4	10	8	11	9	1	2	5	8	4	6	4	10	1	3	10	2	9	7
Upper Three	41	4	9	6	5	3	9	7	11	8	2	1	7	7	4	6	4	9	1	3	9	2	8	9
Big Flat Creek	51	3	4	4	4	4	10	8	11	9	2	1	14	7	4	6	4	9	1	3	9	2	8	9
Flat and Coude	27	10	9	7	4	8	1	1	11	4	1	4	29	2	1	6	3	7	7	7	7	3	7	3

Reach Name	Reach Rank										Reach Rank													
	Reach Rank	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions	Reach Rank	Riparian Condition	Channel form	Channel complexity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Bruneau 8	30	8	4	8	10	7	5	3	11	5	1	1	23	4	7	4	3	8	1	6	9	1	10	10
Bruneau 9	57	1	1	1	1	1	1	1	1	1	1	1	54	1	1	1	1	1	1	1	1	1	1	1
Jarbridge 1	23	10	5	8	5	7	3	3	11	9	1	1	30	7	4	6	4	9	1	1	8	1	9	9
Bruneau 7	32	6	4	6	10	5	8	3	11	8	1	1	32	7	5	6	2	9	1	3	8	3	9	9
Cat	28	10	8	9	4	5	7	2	11	6	1	3	12	8	2	3	7	10	1	5	9	5	10	4
Pole	11	8	9	10	6	7	2	2	11	2	1	2	20	8	1	2	6	8	3	3	7	8	8	3
Sheep 4	24	10	6	8	6	8	2	2	11	2	1	2	39	7	4	6	4	9	1	1	8	9	9	1
Sheep 3	34	7	9	10	5	8	6	2	11	4	1	2	27	8	2	3	6	7	1	4	10	9	11	4
Sheep 3	42	5	8	8	5	10	7	2	11	2	1	2	41	8	2	2	6	7	1	4	8	8	8	4
Marys 1	46	6	4	9	4	10	7	2	11	7	1	2	42	9	6	1	6	8	2	2	10	2	10	2
Marys 2	17	7	5	7	5	10	9	1	11	4	1	3	31	9	3	5	3	6	1	9	8	7	9	1
Sheep 1	29	5	4	5	10	9	7	3	11	7	1	1	35	9	5	6	1	7	2	2	8	2	9	9
Bruneau 6	26	7	5	7	10	6	3	3	11	9	1	1	28	8	5	6	1	8	2	2	7	2	8	8
Louse 1	47	5	2	5	3	9	8	3	10	7	1	1	2	9	8	7	6	4	2	3	10	5	11	1
Louse 2	40	6	4	5	7	9	7	2	10	2	1	1	9	8	4	6	3	7	2	5	9	10	10	1
Wickahoney 1	39	7	4	10	4	6	8	3	11	8	1	1	50	4	2	1	2	6	6	5	6	6	6	6
Wickahoney	44	8	4	8	7	3	4	1	10	4	1	1	8	3	5	3	2	8	8	6	8	8	6	1

Reach Name	Yellow										Green														
	Reach Rank	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions	Reach Rank	Riparian Condition	Channel form	Channel complexity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions	
2											1														
Duncan	15	8	5	10	4	6	9	2	11	7	2	1	51	3	2	1	5	5	5	0	5	11	4	5	
Cottonwood	9	6	4	9	3	8	6	1	11	5	1	0	66	2	1	2	2	2	2	2	2	11	2	2	
Big Jacks 2	21	8	3	8	3	6	7	1	11	3	1	0	44	3	1	7	1	7	4	4	7	7	4	7	
L. Jacks 2	10	6	8	6	1	10	8	1	11	1	1	1	67	2	1	9	2	2	2	2	2	10	2	11	
L. Jacks 3	22	10	2	8	2	7	9	2	11	2	1	2	43	1	2	7	2	7	5	2	6	7	7	11	
Big Jacks 1	36	8	6	9	3	5	7	1	11	0	4	1	16	3	4	2	7	9	5	5	9	8	1	9	
L. Jacks 1	18	5	9	6	1	8	10	2	11	2	2	7	45	7	5	6	7	7	1	2	7	2	2	7	
Merritt	45	10	7	9	6	8	4	1	11	3	1	5	19	2	5	7	6	8	3	8	8	4	8	1	
Willis	49	9	7	9	7	6	4	1	11	4	1	3	1	6	3	6	3	10	1	8	11	1	8	5	

Existing Conditions–Bull Trout

Scoring	
Confidence Rating	Attribute Rating
0 = Unknown	0 = 0% of normative
1 = Expert Opinion	1 = 25% of normative
2 = Well Documented	2 = 50% of normative
	3 = 75% of normative
Definitions	4 = 100% of normative

Describe the natural physical condition of the stream

Stream Name: Bruneau Subbasin

Describe the current condition for this stream in regard to the physical conditions in this ecological province.

HUC 6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
1501	Jarbidge 3	1.0	1.0	1.0	2.0	4.0	3.0	4.0	4.0	2.0	2.0	4.0
1601	E. Frk Jarbidge 1	3.0	3.0	3.0	3.0	4.0	3.0	4.0	4.0	2.0	3.0	4.0
1602	E.Frk Jarbidge 2	3.0	3.0	2.0	3.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0
1701	Jarbidge 4	2.0	1.0	1.0	2.0	4.0	3.0	4.0	4.0	2.0	3.0	4.0
1702	Jarbidge 5	2.0	2.0	2.0	2.0	4.0	3.0	4.0	4.0	3.0	3.0	3.5
1801	Jarbidge 2	3.0	3.0	2.0	3.0	4.0	3.0	4.0	4.0	2.0	3.0	4.0
1802	Jarbidge 3	3.0	3.0	2.0	3.0	4.0	3.0	4.0	4.0	2.0	3.0	4.0
2801	Jarbidge 1	3.0	3.0	2.0	3.0	4.0	3.0	4.0	4.0	2.0	3.0	4.0

Reference Conditions–Bull Trout

HUC 6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
1501	Jarbidge 3	4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1601	E. Frk Jarbidge 1	4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1602	E.Frk Jarbidge 2	4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1701	Jarbidge 4	4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1702	Jarbidge 5	4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1801	Jarbidge 2	3	4.0	3.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
1802	Jarbidge 3	3	4.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2801	Jarbidge 1	3	4.0	3.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0

Species Hypothesis–Bull Trout

	Spawning/incubation	Summer Rearing	Winter Rearing	Migration
Life Stage Rank (1-4)	3.0	3.0	3.0	2.0

Assign a weight to each attribute (0-2) relative to its importance to the life stage

Riparian Condition	1.0	2.0	2.0	0.5
Channel stability	2.0	2.0	2.0	1.0
Habitat Diversity	2.0	2.0	2.0	1.0
Fine sediment	2.0	2.0	2.0	1.0
High Flow	2.0	1.0	1.0	1.0
Low Flow	2.0	2.0	2.0	2.0
Oxygen	2.0	2.0	2.0	2.0
Low Temp	1.0	1.0	1.0	1.0
High Temp	2.0	2.0	2.0	2.0
Pollutants	2.0	2.0	2.0	2.0
Obstructions	0.0	1.0	1.0	2.0

Species Range–Bull Trout

Reach Name	Current Range (0-2)				Reference Range (0-2)			
	Spawn and incubation	Summer rearing	Winter rearing	Migration	Spawn and incubation	Summer rearing	Winter rearing	Migration
Jarbidge 3	0	1	1	1	0	1	1	1
E. Frk Jarbidge 1	0	1	1	1	1	1	1	1
E.Frk Jarbidge 2	1.2	1.2	1.2	2	1.2	1.2	1.2	2
Jarbidge 4	0	1	1	1	1	1	1	1
Jarbidge 5	1	1.5	1.5	1.75	1.5	1.5	1.5	2
Jarbidge 2	0	1	1	1	0	1	1	1
Jarbidge 3	0	1	1	1	0	1	1	1
Jarbidge 1	0	1	1	1	0	1	1	1

Habitat Score–Bull Trout

Reach Name	Habitat Score										Reach Score													
	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	
Jarbidge 3	-0.2	-0.1	-0.1	-0.1	-0.2	-0.2	-0.3	0.0	0.0	-0.2	-0.2	-0.3	0.2	0.3	0.3	0.3	0.2	0.0	0.1	0.0	0.0	0.0	0.2	0.2
E. F. Jarb. 1	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	0.0	0.0	-0.2	-0.3	-0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.3	0.2
E.F. Jarb. 2	-0.6	-0.4	-0.5	-0.4	-0.5	-0.5	0.0	0.0	0.0	-0.6	-0.8	-0.4	0.1	0.1	0.2	0.4	0.2	0.0	0.2	0.0	0.0	0.0	0.2	0.0
Jarbidge 4	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	0.0	0.0	0.0	-0.2	-0.3	-0.3	0.2	0.2	0.4	0.4	0.3	0.0	0.2	0.0	0.0	0.0	0.3	0.2
Jarbidge 5	-0.5	-0.3	-0.4	-0.4	-0.4	-0.5	0.0	0.0	0.0	-0.7	-0.7	-0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.0	0.0	0.3	0.3	0.3
Jarbidge 2	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	0.0	0.0	0.0	-0.2	-0.3	-0.3	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1
Jarbidge 3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	0.0	0.0	0.0	-0.2	-0.3	-0.3	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.1
Jarbidge 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Habitat Ranking–Bull Trout

Reach Name	Reach Rank	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions	Reach Rank	Riparian Condition	Channel form	Channel complexity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Jarbidge 3	8	9	7	7	6	3	1	10	10	3	3	2	3	3	1	6	8	8	7	8	8	4	4	8
E. F. Jarb. 1	3	7	3	3	3	8	1	10	10	8	1	6	5	7	4	4	4	8	2	8	8	1	2	8
E.F. Jarb. 2	1	8	4	9	4	6	2	10	10	2	1	7	4	6	4	1	4	7	2	7	7	2	7	7
Jarbidge 4	7	7	8	8	6	4	1	10	10	4	1	3	2	5	1	1	4	8	6	8	8	3	6	8
Jarbidge 5	2	9	6	6	6	4	1	10	10	1	1	5	1	4	1	1	1	9	5	9	9	5	5	8
Jarbidge 2	4	6	3	9	3	7	1	10	10	7	1	5	7	7	4	4	4	7	1	7	7	1	1	7
Jarbidge 3	4	6	3	9	3	7	1	10	10	7	1	5	6	7	4	4	4	7	2	7	7	1	2	7
Jarbidge 1	4	6	3	9	3	7	1	10	10	7	1	5	7	7	4	4	4	7	1	7	7	1	1	7

Existing Conditions–Mountain Whitefish

Scoring	
Confidence Rating	Attribute Rating
0 = Unknown	0 = 0% of normative
1 = Expert Opinion	1 = 25% of normative
2 = Well Documented	2 = 50% of normative
	3 = 75% of normative
Definitions	4 = 100% of normative

Describe the natural physical condition of the stream

Stream Name: Bruneau Subbasin

Describe the current condition for this stream in regard to the physical conditions in this ecological province.

HUC_6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
0402	Bruneau	3.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	3.0	3.0	4.0
1501	Jarbidge 3	3.0	3.0	4.0	3.0	4.0	4.0	4.0	4.0	3.0	3.0	4.0
1601	E. Frk Jarb. 1	2.0	3.0	3.0	2.0	4.0	3.0	4.0	4.0	2.0	4.0	4.0
1602	E.Frk Jarb. 2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1701	Jarbidge 4	2.0	2.0	2.0	2.0	4.0	3.0	4.0	3.0	2.0	3.0	4.0
1702	Jarbidge 5	2.5	2.5	2.5	3.0	3.0	3.0	4.0	3.0	2.5	3.0	4.0
1801	Jarbidge 2	2.0	3.0	3.0	2.0	4.0	3.0	4.0	3.0	2.0	4.0	4.0
1802	Jarbidge 3	2.0	3.0	3.0	2.0	4.0	3.0	4.0	3.0	2.0	4.0	4.0
2101	Bruneau 11	4.0	3.0	4.0	3.5	4.0	4.0	4.0	4.0	3.5	4.0	4.0
2801	Jarbidge 1	2.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0	2.0	4.0	4.0
2803	Bruneau 7	3.0	3.0	3.0	2.0	4.0	2.0	3.0	3.0	2.0	4.0	4.0
3501	Bruneau 6	3.0	3.0	3.0	2.0	4.0	3.0	3.0	3.0	2.0	4.0	4.0

Reference Conditions–Mountain Whitefish

Description	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
0402	Bruneau 4	3.0	4.0	3.0	4.0	4.0	4.0	3.0	4.0	3.0	4.0	4.0
1501	Jarbidge 3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
1601	E. Frk Jarbidge 1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1602	E.Frk Jarbidge 2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
1701	Jarbidge 4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Description	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
1702	Jarbidge 5	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
1801	Jarbidge 2	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
1802	Jarbidge 3	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
2101	Bruneau 11	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2801	Jarbidge 1	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
2803	Bruneau 7	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0
3501	Bruneau 6	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	4.0	4.0

Species Hypothesis–Mountain Whitefish

	Spawning/incubation	Summer Rearing	Winter Rearing	Migration
Life Stage Rank (1-4)	3.0	3.0	3.0	2.0

Assign a weight to each attribute (0-2) relative to its importance to the life stage

Attribute	Spawning/incubation	Summer Rearing	Winter Rearing	Migration
Riparian Condition	1.0	2.0	2.0	0.5
Channel stability	2.0	2.0	2.0	0.5
Habitat Diversity	1.0	2.0	2.0	0.5
Fine sediment	2.0	2.0	2.0	0.5
High Flow	2.0	1.0	1.0	0.5
Low Flow	2.0	2.0	2.0	2.0
Oxygen	2.0	2.0	2.0	2.0
Low Temp	0.5	0.0	0.0	0.0
High Temp	2.0	2.0	2.0	2.0
Pollutants	2.0	2.0	2.0	2.0
Obstructions	0.0	1.0	1.0	2.0

Species Range–Mountain Whitefish

Reach Name	Current Spawn and incubation	Current Summer rearing	Current Winter rearing	Current Migration	Reference Spawn and incubation	Reference Summer rearing	Reference Winter rearing	Reference Migration
Bruneau 4	0.0	1.0	1.0	1.3	0.0	1.0	1.0	1.0
Jarbidge 3		1.0	1.0			1.0	1.0	
E. Frk Jarbidge 1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E.Frk Jarbidge 2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Jarbidge 4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Jarbidge 5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Jarbidge 2		1.0	1.0			1.0	1.0	
Jarbidge 3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Bruneau 11	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Jarbidge 1		1.0	1.0			1.0	1.0	
Bruneau 7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Bruneau 6	0.8	1.0	1.0	1.3	1.0	1.2	1.2	1.5

Habitat Score–Mountain Whitefish

Reach Name	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Bruneau 4	-0.4	-0.4	-0.5	-0.4	-0.4	-0.3	-0.7	0.0	0.0	-0.5	-0.5	0.0
Jarbidge 3	-0.4	-0.3	-0.3	-0.5	-0.3	-0.2	-0.5	0.0	0.0	-0.3	-0.3	0.0
E. F. Jarbidge 1	-0.5	-0.3	-0.5	-0.5	-0.4	-0.5	-0.6	0.0	0.0	-0.4	-0.8	0.0
E.F. Jarbidge 2	-0.7	-0.6	-0.7	-0.6	-0.7	-0.5	-0.8	0.0	0.0	-0.8	-0.8	0.0
Jarbidge 4	-0.4	-0.3	-0.4	-0.3	-0.4	-0.5	-0.6	0.0	0.0	-0.4	-0.6	0.0
Jarbidge 5	-0.5	-0.4	-0.4	-0.4	-0.5	-0.4	-0.6	0.0	0.0	-0.5	-0.6	0.0
Jarbidge 2	-0.3	-0.2	-0.3	-0.3	-0.2	-0.2	-0.3	0.0	0.0	-0.2	-0.5	0.0
Jarbidge 3	-0.5	-0.3	-0.5	-0.5	-0.4	-0.5	-0.6	0.0	0.0	-0.4	-0.8	0.0
Bruneau 11	-0.7	-0.6	-0.5	-0.6	-0.6	-0.5	-0.8	0.0	0.0	-0.7	-0.8	0.0
Jarbidge 1	-0.3	-0.2	-0.3	-0.3	-0.3	-0.2	-0.3	0.0	0.0	-0.2	-0.5	0.0
Bruneau 7	-0.5	-0.5	-0.5	-0.5	-0.4	-0.5	-0.4	0.0	0.0	-0.4	-0.8	0.0
Bruneau 6	-0.5	-0.4	-0.5	-0.4	-0.3	-0.5	-0.6	0.0	0.0	-0.4	-0.8	0.0
	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
	0.2	0.3	0.2	0.2	0.4	0.0	0.2	0.0	0.0	0.4	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.3	0.3	0.4	0.3	0.4	0.0	0.2	0.0	0.0	0.4	0.2	0.0
	0.2	0.1	0.3	0.2	0.2	0.1	0.2	0.0	0.0	0.1	0.2	0.0
	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.0	0.0	0.1	0.0	0.0
	0.2	0.2	0.2	0.2	0.4	0.0	0.2	0.0	0.0	0.2	0.0	0.0
	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0
	0.2	0.0	0.2	0.2	0.4	0.0	0.4	0.0	0.0	0.2	0.0	0.0
	0.2	0.0	0.2	0.2	0.4	0.0	0.3	0.0	0.0	0.3	0.0	0.0

Existing Conditions—Bruneau Hot Springsnail

Scoring	
Confidence Rating	Attribute Rating
0 = Unknown	0 = 0% of normative
1 = Expert Opinion	1 = 25% of normative
2 = Well Documented	2 = 50% of normative
	3 = 75% of normative
Definitions	4 = 100% of normative

Describe the natural physical condition of the stream

Stream Name: Bruneau Subbasin

Describe the current condition for this stream in regard to the physical conditions in this ecological province.

HUC_6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
0102	Bruneau2	2.0	1.0	2.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	4.0
0201	Bruneau3	4.0	4.0	4.0	1.0	3.0	2.0	4.0	4.0	4.0	1.0	4.0

Reference Conditions—Bruneau Hot Springsnail

HUC_6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
0102	Bruneau2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0201	Bruneau3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
0401	Lower Hot Creek	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Species Hypothesis—Bruneau Hot Springsnail

	Spawning/incubation	Summer Rearing	Winter Rearing	Migration
Life Stage Rank (1-4)	4.0	4.0	4.0	0.0

Assign a weight to each attribute (0-2) relative to its importance to the life stage

Riparian Condition	0.0	0.0	0.0	0.0
Channel stability	1.0	1.0	1.0	0.0
Habitat Diversity	1.0	1.0	1.0	0.0
Fine sediment	2.0	2.0	2.0	0.0
High Flow	2.0	2.0	2.0	0.0
Low Flow	1.0	1.0	1.0	0.0
Oxygen	2.0	2.0	2.0	0.0
Low Temp	0.0	0.0	0.0	0.0
High Temp	1.0	1.0	1.0	0.0
Pollutants	2.0	2.0	2.0	0.0
Obstructions	0.0	0.0	0.0	0.0

Species Range—Bruneau Hot Springsnail

Reach Name	Current Range (0-2)				Reference Range (0-2)			
	Spawn and incubation	Summer rearing	Winter rearing	Migration	Spawn and incubation	Summer rearing	Winter rearing	Migration
Bruneau2	2.0	2.0	2.0	0.0	2.0	2.0	2.0	0.0
Bruneau3	2.0	2.0	2.0	0.0	2.0	2.0	2.0	0.0
Lower Hot Creek	0.0	0.0	0.0	0.0	2.0	2.0	2.0	0.0

Habitat Scores—Bruneau Hot Springsnail

Reach Name	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Bruneau2	0.2	0.0	-0.1	0.3	-0.1	0.3	-0.1	0.0	0.0	-0.1	0.3	0.0
Bruneau3	0.4	0.0	0.5	0.3	0.8	0.3	0.0	0.0	0.0	0.5	0.3	0.0
Lower Hot Creek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
0.5	0.0	0.4	0.3	0.9	0.8	0.4	0.0	0.0	0.4	0.8	0.0
0.3	0.0	0.0	0.0	0.8	0.3	0.3	0.0	0.0	0.0	0.8	0.0
0.2	0.0	0.1	0.1	0.3	1.0	0.3	0.0	0.0	0.1	0.0	0.0

Habitat Ranking—Bruneau Hot Springsnail

Reach Name	Reach Rank	Riparian Condition	Channel form	Channel complexity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Bruneau2	2	8	4	4	1	4	4	8	8	4	1	8
Bruneau3	1	8	2	2	5	1	5	8	8	2	5	8
Lower Hot Creek												

Reach Rank	Riparian Condition	Channel form	Channel complexity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
1	8	4	7	1	2	4	8	8	4	2	8
2	5	5	5	1	3	3	5	5	5	1	5
3	7	4	4	2	1	2	7	7	4	7	7

Existing Conditions—Idaho Springsnail

HUC_6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
0101	Bruneau 1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	4.0

Reference Condi—Idaho Springsnail

HUC_6	Reach Name	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
0101	Bruneau 1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Species Hypothesis—Idaho Springsnail

	Spawning/incubation	Summer Rearing	Winter Rearing	Migration
Life Stage Rank (1-4)	4.0	4.0	4.0	0.0

Assign a weight to each attribute (0-2) relative to its importance to the life stage

Attribute	Spawning/incubation	Summer Rearing	Winter Rearing	Migration
Riparian Condition	0.0	0.0	0.0	0.0
Channel stability	1.0	1.0	1.0	0.0
Habitat Diversity	1.0	1.0	1.0	0.0
Fine sediment	2.0	2.0	2.0	0.0
High Flow	2.0	2.0	2.0	0.0
Low Flow	1.0	1.0	1.0	0.0
Oxygen	2.0	2.0	2.0	0.0
Low Temp	0.0	0.0	0.0	0.0
High Temp	1.0	1.0	1.0	0.0
Pollutants	2.0	2.0	2.0	0.0
Obstructions	0.0	0.0	0.0	0.0

Species Range–Idaho Springsnail

Reach Name	Current Range (0-2)				Reference Range (0-2)			
	Spawn and incubation	Summer rearing	Winter rearing	Migration	Spawn and incubation	Summer rearing	Winter rearing	Migration
Bruneau 1	0.0	0.0	0.0	0.0	2.0	2.0	2.0	0.0

Habitat Score—Idaho Springsnail

Reach Name	Reach Score	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Bruneau 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.6	0.0	0.5	0.5	1.0	1.0	0.5	0.0	0.0	0.4	1.0	0.0

Habitat Rank—Idaho Springsnail

Reach Name	Reach Rank	Riparian Condition	Channel stability	Habitat Diversity	Fine sediment	High Flow	Low Flow	Oxygen	Low Temperature	High Temperature	Pollutants	Obstructions
Bruneau 1	NPC											
	1	8	4	4	1	1	4	8	8	7	1	8