

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 sub-adult 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

Appendix B. USGS Stream Gauges in the Owyhee Subbasin

17050104 Upper Owyhee

Agency	Site Number	Site Name	From	To	Count
USGS	13174500	OWYHEE R NR GOLD CREEK, NV	4/1/1916	9/30/1999	26299
USGS	13174900	OWYHEE R AT PATSVILLE, NV	#####	9/30/1975	1385
USGS	13175000	OWYHEE R AT MOUNTAIN CITY, NV	5/17/1913	12/31/1948	8298
USGS	13175100	OWYHEE RIVER NR. MOUNTAIN CITY, NV	4/22/1991	9/30/1999	2501
USGS	13175500	OWYHEE R NR OWYHEE, NV	12/1/1913	6/30/1926	3204
USGS	13176000	OWYHEE RIVER AB CHINA DIVERSION DAM NR OWYHEE NV	3/24/1939	4/30/1984	16475

17050105 South Fork Owyhee

Agency	Site Number	Site Name	From	To	Count
USGS	13176900	JACK C BL SCHOONOVER C NR TUSCARORA, NV	8/1/1962	9/30/1969	2618
USGS	13177000	JACK C NR TUSCARORA, NV	6/1/1913	6/30/1925	4413
USGS	13177200	S F OWYHEE R AT SPANISH RANCH NR TUSCARORA, NV	8/21/1959	11/9/1973	5195
USGS	13177500	S FK OWYHEE R NR DEEP C NV	6/1/1921	9/30/1924	1066
USGS	13177800	S F OWYHEE R NR WHITEROCK, NV	10/1/1955	9/30/1981	9497

17050107 Middle Owyhee

Agency	Site Number	Site Name	From	To	Count
USGS	13181000	OWYHEE RIVER NR ROME OR	10/1/1949	9/30/2000	18628

17050108 Jordan

Agency	Site Number	Site Name	From	To	Count
USGS	13177985	JORDAN CR AT DE LAMAR MINE NR JORDAN VALLEY OR	10/1/1993	9/30/1996	1096
USGS	13178000	JORDAN CREEK AB LONE TREE CR NR JORDAN VALLEY OR	10/1/1945	10/20/1971	8727

17050110 Lower Owyhee

Agency	Site Number	Site Name	From	To	Count
USGS	13182000	OWYHEE RIVER ABOVE OWYHEE RESERVOIR, OREG.	10/1/1930	9/30/1951	7670
USGS	13184000	OWYHEE RIVER AT OWYHEE, OREG.	1890-03-26	9/30/1986	

Appendix C

Appendix C Dams in the Oregon portion of the Owyhee Subbasin

DAM INFORMATION

Oregon Water Resources Department

ID #	Name	River	Height Storage		Location (T/R/Sec)
			(ft.)	(Ac-ft)	
	Anderson-Lower				
OR00053	(Malheur)	Crooked Creek	34		2990T33S/R40E/Sec 9
OR00122	Antelope (Malheur)	Jack, Antelope, & Jordan Creek	56		55000T30S/R45E/Sec 32
OR00051	Arritola Res	Soldier Creek	18		2000T33S/R46E/Sec 5
OR01085	Bad News Res	Crooked Creek, Trib to	16		12T35S/R40E/Sec 32
OR00256	Ben Odell	Black Canyon Creek	14		254T26S/R42E/Sec 29
OR00253	Blevins	Dry Creek	24		430T33S/R42E/Sec 16
OR00048	Butte	Butte Creek	14		500T24S/R41E/Sec 31
OR01324	Callumbaugh Res	Dry Creek, Trib to	13		14T35S/R44E/Sec 2
OR01366	Cherry Creek Res	Cherry Creek	10		9T34S/R46E/Sec 21
OR00664	Chevally Res.	Cow Creek, (offstream)	22		406T28S/R46E/Sec 21
OR00073	Clark Res.	Unnamed	10		100T28S/R40E/Sec 11
OR00094	Clark Res. 2	Owyhee River, Trib to	14		380T28S/R41E/Sec 7
OR00763	Copeland Res.	Butte Creek	12		265T25S/R41E/Sec 8
OR00052	Corliss	Butte Creek, Trib to	10		75T25S/R41E/Sec 30
OR01462	Coyote Holes Res	Dry Creek, Trib to	10		10T35S/R44E/Sec 6
OR00132	Crowley Res.	Big Crowley Creek	90		3700T26S/R39E/Sec 15
OR00086	Deary Res	Soldier Creek	27		360T32S/R45E/Sec 21
OR01599	Dry Hole Res	Dry Creek, Trib to	11		10T35S/R43E/Sec 9
OR00164	Echave Res.	Jackson Creek	34		55T39S/R43E/Sec 5
OR01643	Eiguren Res	Owyhee River, Trib to	24		9T31S/R43E/Sec 24
OR00068	Fred Scott Res	Indian Ford Creek	24		800T32S/R42E/Sec 21
OR01806	Goodyear Res.	Cow Creek, Trib to	15		28T28S/R46E/Sec 31
OR00085	Greeley Res	Rock Creek	11		700T31S/R44E/Sec 10
OR00762	Greely Res	Owyhee River, Trib to	20		297T31S/R44E/Sec 15
OR01889	Hawks Nest Res.		2432		32 T28S/R45E/Sec 8
OR03698	Hicks Canyon Dam	Trib of Jordan Creek	25		14T31S/R45E/Sec 13
OR01998	Indian Canyon Res	Indian Canyon	10		9T33S/R45E/Sec 29
OR00125	Kent, David Res.	Juniper Mountain Creek	18		360T26S/R42E/Sec 7
OR02218	Little Snake Res	Rattlesnake Cr. Trib to	12		10T37S/R44E/Sec 33
OR02298	Lower Fort Creek, Res.	Owyhee River, Trib to	10		22T28S/R41E/Sec 1
OR02313	Lynde Res	Dry Creek	10		30T31S/R42E/Sec 3
OR00027	Maher Res	Field Creek	14		300T36S/R48E/Sec 27
OR02394	Middle Chimney Creek		15		9T35S/R42E/Sec 33
OR02396	Middle Fence Res.	Keeney Creek, Trib to	18		9T22S/R42E/Sec 31
OR00761	Mud Creek Res.	Mud Creek	12		126T28S/R42E/Sec 35
		Run-Off from Unnamed			
OR00310	Mud Flat Res	Channel	16		2021T33S/R45E/Sec 4
OR02598	Oregon Lake Res	Oregon Lake Creek	10		37T37S/R48E/Sec 27
OR00582	Owyhee	Owyhee River	340		1120000T22S/R45E/Sec 20
OR00061	Parker Res	Soldier Creek	12		660T33S/R46E/Sec 27
OR00625	Parsnip Cr. Diversion	Parsnip Creek	38		475T32S/R45E/Sec 11
OR00338	Parsnip Creek Res	Parsnip Creek	25		181T32S/R45E/Sec 12
OR02666	Petrefied	Cottonwood Creek, Tirb to	14		26T21S/R41E/Sec 26
OR00760	Riley Horn Res.	Unnamed	12		12T28S/R42E/Sec 3

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OR00623	Rock Creek, Res	Rock Creek	15	192T31S/R44E/Sec 6
OR00254	Rock House Res	Dry Creek	21	240T33S/R42E/Sec 5
OR02908	Rough Road		10	10T37S/R45E/Sec 29
OR02928	Rufino Butte Res.	Trib. to Malheur River	12	10T23S/R41E/Sec 6
OR00089	Salt Lick Res., The	Stone Creek	23	300T32S/R46E/Sec 24
OR03026	Sheep		10	10T25S/R46E/Sec 24
OR00019	Somerville, The Res	Spring Creek	30	2000T32S/R44E/Sec 4
OR03179	State Line Res	M. F. Owyhee River, Trib to	15	9T35S/R46E/Sec 34
OR00758	Steer Canyon Reservoir	Steer Canyon Creek	26	48T38S/R45E/Sec 26
OR00081	Stimmel Res	Cherry Creek	17	300T34S/R46E/Sec 3
OR00679	Turnbull Peak Res.	Cotton & Dick Creeks	13	754T27S/R38E/Sec 27
OR03336	Twin Res	Antelope Res., Trib to	11	10T31S/R45E/Sec 26
OR03340	Two Mile Res.		19	48T40S/R43E/Sec 33

Appendix D

Appendix D. Vertebrate wildlife species of the Owyhee 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	
American avocet	<i>Recurvirostra americana</i>
American bittern	<i>Botaurus lentiginosus</i>
American coot	<i>Fulica americana</i>
American crow	<i>Corvus brachyrhynchos</i>
American kestrel	<i>Falco sparverius</i>
American white pelican	<i>Pelecanus erythrorhynchos</i>
American wigeon	<i>Anas americana</i>
Ash-throated flycatcher	<i>Myiarchus cinerascens</i>
Bald eagle	<i>Haliaeetus leucocephalus</i>
Bank swallow	<i>Riparia riparia</i>
Barn owl	<i>Tyto alba</i>
Barn swallow	<i>Hirundo rustica</i>
Barrow's goldeneye	<i>Bucephala islandica</i>
Belted kingfisher	<i>Ceryle alcyon</i>
Black tern	<i>Chlidonias niger</i>
Black-billed magpie	<i>Pica hudsonia</i>
Black-capped chickadee	<i>Poecile atricapilla</i>
Black-chinned hummingbird	<i>Archilochus alexandri</i>
Black-crowned night-heron	<i>Nycticorax nycticorax</i>
Black-necked stilt	<i>Himantopus mexicanus</i>
Blue-winged teal	<i>Anas discors</i>
Broad-tailed hummingbird	<i>Selasphorus platycercus</i>
Bufflehead	<i>Bucephala albeola</i>
Burrowing owl	<i>Athene cucularia</i>
Bushtit	<i>Psaltriparus minimus</i>
California gull	<i>Larus californicus</i>
California quail	<i>Callipepla californica</i>
Calliope hummingbird	<i>Stellula calliope</i>
Canada goose	<i>Branta canadensis</i>
Canvasback	<i>Aythya valisineria</i>
Caspian tern	<i>Sterna caspia</i>
Cattle egret	<i>Bubulcus ibis</i>
Chukar	<i>Alectoris chukar</i>
Cinnamon teal	<i>Anas cyanoptera</i>

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Common Name	Species Name
Clark's grebe	<i>Aechmophorus clarkii</i>
Cliff swallow	<i>Petrochelidon pyrrhonota</i>
Common loon	<i>Gavia immer</i>
Common merganser	<i>Mergus merganser</i>
Common nighthawk	<i>Chordeiles minor</i>
Common poorwill	<i>Phalaenoptilus nuttallii</i>
Common raven	<i>Corvus corax</i>
Common snipe	<i>Gallinago gallinago</i>
Cooper's hawk	<i>Accipiter cooperii</i>
Double-crested cormorant	<i>Phalacrocorax auritus</i>
Downy woodpecker	<i>Picoides pubescens</i>
Dusky flycatcher	<i>Empidonax oberholseri</i>
Eared grebe	<i>Podiceps nigricollis</i>
Eastern kingbird	<i>Tyrannus tyrannus</i>
Ferruginous hawk	<i>Buteo regalis</i>
Flammulated owl	<i>Otus flammeolus</i>
Forster's tern	<i>Sterna forsteri</i>
Gadwall	<i>Anas strepera</i>
Golden eagle	<i>Aquila chrysaetos</i>
Grasshopper sparrow	<i>Ammodramus savannarum</i>
Gray flycatcher	<i>Empidonax wrightii</i>
Gray partridge	<i>Perdix perdix</i>
Great blue heron	<i>Ardea herodias</i>
Great egret	<i>Ardea alba</i>
Great horned owl	<i>Bubo virginianus</i>
Greater sage grouse	<i>Centrocercus urophasianus</i>
Green-winged teal	<i>Anas crecca</i>
Hairy woodpecker	<i>Picoides villosus</i>
Hammond's flycatcher	<i>Empidonax hammondii</i>
Horned lark	<i>Eremophila alpestris</i>
Killdeer	<i>Charadrius vociferus</i>
Lewis' woodpecker	<i>Melanerpes lewis</i>
Loggerhead shrike	<i>Lanius ludovicianus</i>
Long-billed curlew	<i>Numenius americanus</i>
Long-eared owl	<i>Asio otus</i>
Mallard	<i>Anas platyrhynchos</i>
Merlin	<i>Falco columbarius</i>
Mountain chickadee	<i>Poecile gambeli</i>
Mountain quail	<i>Oreortyx pictus</i>
Mourning dove	<i>Zenaida macroura</i>
Northern flicker	<i>Colaptes auratus</i>
Northern goshawk	<i>Accipiter gentilis</i>
Northern Harrier	<i>Circus cyaneus</i>
Northern pintail	<i>Anas acuta</i>
Northern pygmy-owl	<i>Glaucidium gnoma</i>
Northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>
Northern saw-whet owl	<i>Aegolius acadicus</i>
Northern shoveler	<i>Anas clypeata</i>

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Common Name	Species Name
Olive-sided flycatcher	<i>Contopus cooperi</i>
Osprey	<i>Pandion haliaetus</i>
Peregrine falcon	<i>Falco peregrinus anatum</i>
Pied-billed grebe	<i>Podilymbus podiceps</i>
Prairie falcon	<i>Falco mexicanus</i>
Redhead	<i>Aythya americana</i>
Red-naped sapsucker	<i>Sphyrapicus nuchalis</i>
Red-tailed hawk	<i>Buteo jamaicensis</i>
Ring-billed gull	<i>Larus delawarensis</i>
Ring-necked pheasant	<i>Phasianus colchicus</i>
Rock dove	<i>Columba livia</i>
Ruddy duck	<i>Oxyura jamaicensis</i>
Rufous hummingbird	<i>Selasphorus rufus</i>
Sandhill crane	<i>Grus canadensis</i>
Say's phoebe	<i>Sayornis saya</i>
Sharp-shinned hawk	<i>Accipiter striatus</i>
Short-eared owl	<i>Asio flammeus</i>
Snowy egret	<i>Egretta thula</i>
Sora	<i>Porzana carolina</i>
Spotted sandpiper	<i>Actitis macularia</i>
Swainson's hawk	<i>Buteo swainsoni</i>
Tree swallow	<i>Tachycineta bicolor</i>
Turkey vulture	<i>Cathartes aura</i>
Violet-green swallow	<i>Tachycineta thalassina</i>
Virginia rail	<i>Rallus limicola</i>
Western grebe	<i>Aechmophorus occidentalis</i>
Western kingbird	<i>Tyrannus verticalis</i>
Western screech-owl	<i>Otus kennicottii</i>
Western wood-pewee	<i>Contopus sordidulus</i>
White-faced ibis	<i>Plegadis chihi</i>
White-headed woodpecker	<i>Picoides albolarvatus</i>
White-throated swift	<i>Aeronautes saxatalis</i>
Willet	<i>Catoptrophorus semipalmatus</i>
Willow flycatcher	<i>Empidonax traillii</i>
Wilson's phalarope	<i>Phalaropus tricolor</i>
Wood duck	<i>Aix sponsa</i>
Yellow-billed cuckoo	<i>Coccyzus americanus</i>
Mammals	
American badger	<i>Taxidea taxus</i>
American beaver	<i>Castor canadensis</i>
American mink	<i>Mustela vison</i>
Belding's ground squirrel	<i>Spermophilus beldingi</i>
Big brown bat	<i>Eptesicus fuscus</i>
Bighorn sheep	<i>Ovis canadensis</i>
Black-tailed jack rabbit	<i>Lepus californicus</i>
Bobcat	<i>Lynx rufus</i>
Bushy-tailed woodrat	<i>Neotoma cinerea</i>
California myotis	<i>Myotis californicus</i>

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Common Name	Species Name
Canyon mouse	<i>Peromyscus crinitus</i>
Chisel-toothed kangaroo rat	<i>Dipodomys microps</i>
Coyote	<i>Canis latrans</i>
Deer mouse	<i>Peromyscus maniculatus</i>
Desert woodrat	<i>Neotoma lepida</i>
Elk	<i>Cervus elaphus</i>
Ermine	<i>Mustela erminea</i>
Fringed myotis	<i>Myotis thysanodes</i>
Golden-mantled ground squirrel	<i>Spermophilus lateralis</i>
Great basin pocket mouse	<i>Perognathus parvus</i>
Hoary bat	<i>Lasiurus cinereus</i>
House mouse	<i>Mus musculus</i>
Least chipmunk	<i>Tamias minimus</i>
Little brown bat	<i>Myotis lucifugus</i>
Long-eared myotis	<i>Myotis evotis</i>
Long-legged myotis	<i>Myotis volans</i>
Long-tailed vole	<i>Microtus longicaudus</i>
Long-tailed weasel	<i>Mustela frenata</i>
Merriam's shrew	<i>Sorex merriami</i>
Montane vole	<i>Microtus montanus</i>
Mountain lion	<i>Puma concolor</i>
Mule deer	<i>Odocoileus hemionus</i>
Muskrat	<i>Ondatra zibethicus</i>
North American porcupine	<i>Erethizon dorsatum</i>
Northern grasshopper mouse	<i>Onychomys leucogaster</i>
Northern pocket gopher	<i>Thomomys talpoides</i>
Northern raccoon	<i>Procyon lotor</i>
Northern river otter	<i>Lontra canadensis</i>
Nuttall's (mountain) cottontail	<i>Sylvilagus nuttallii</i>
Ord's kangaroo rat	<i>Dipodomys ordii</i>
Pallid bat	<i>Antrozous pallidus</i>
Pinyon mouse	<i>Peromyscus truei</i>
Pronghorn	<i>Antilocapra americana</i>
Pygmy rabbit	<i>Brachylagus idahoensis</i>
Red fox	<i>Vulpes vulpes</i>
Sagebrush vole	<i>Lemmiscus curtatus</i>
Silver-haired bat	<i>Lasionycteris noctivagans</i>
Spotted bat	<i>Euderma maculatum</i>
Striped skunk	<i>Mephitis mephitis</i>
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>
Townsend's pocket gopher	<i>Thomomys townsendii</i>
Vagrant shrew	<i>Sorex vagrans</i>
Water shrew	<i>Sorex palustris</i>
Western harvest mouse	<i>Reithrodontomys megalotis</i>
Western jumping mouse	<i>Zapus princeps</i>
Western pipistrelle	<i>Pipistrellus hesperus</i>
Western small-footed myotis	<i>Myotis ciliolabrum</i>
Western spotted skunk	<i>Spilogale gracilis</i>

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Common Name	Species Name
White-tailed antelope squirrel	<i>Ammospermophilus leucurus</i>
White-tailed jack rabbit	<i>Lepus townsendii</i>
Wyoming ground squirrel	<i>Spermophilus elegans</i>
Yellow-bellied marmot	<i>Marmota flaviventris</i>
Yuma myotis	<i>Myotis yumanensis</i>
Reptiles	
Desert horned lizard	<i>Phrynosoma platyrhinos</i>
Gopher snake	<i>Pituophis melanoleucus</i>
Longnose leopard lizard	<i>Gambelia wislizenii</i>
Longnose snake	<i>Rhinocheilus lecontei</i>
Mojave black-collared lizard	<i>Crotaphytus bicinctores</i>
Night snake	<i>Hypsiglena torquata</i>
Pygmy short-horned lizard	<i>Phrynosoma douglasii</i>
Racer	<i>Coluber constrictor</i>
Rubber boa	<i>Charina bottae</i>
Side-blotched lizard	<i>Uta stansburiana</i>
Striped whipsnake	<i>Masticophis taeniatus</i>
Western fence lizard	<i>Sceloporus occidentalis</i>
Western ground snake	<i>Sonora semiannulata</i>
Western rattlesnake	<i>Crotalus viridis</i>
Western terrestrial garter snake	<i>Thamnophis elegans</i>
Western whiptail	<i>Cnemidophorus tigris</i>

Appendix E

Appendix E Oregon's 303(d) List for Streams Within the Owyhee Subbasin

Oregon's Final 1998
Water Quality Limited
Streams - 303(d) List

Owyhee Basin Data

Sub-Basin	Name & Description	Parameter	Criteria	Season	Supporting Data or Changes From Information 1994/96
Jordan Reservoir	Antelope Reservoir Toxics	Tissue - Mercury	Year Around	OSHD Health Advisory based on DEQ data: Levels of mercury in fish tested from the Antelope system ranged from 2.4 to 3.6 mg/kg with a mean of 2.9 mg/kg which is almost 3 times the level allowed by FDA for commercial fish (1.0 mg/kg),	No Change
Jordan Mouth to Headwaters	Jordan Creek Toxics	Tissue - Mercury	Year Around	OSHD Health Advisory based on DEQ data: Levels of mercury in fish tested from the Antelope system ranged from 2.4 to 3.6 mg/kg with a mean of 2.9 mg/kg which is almost 3 times the level allowed by FDA for commercial fish (1.0 mg/kg).	No Change
Lower Owyhee	Owyhee Reservoir				

Appendix E

Reservoir	Toxics	Tissue/Water - Mercury - Annual	Year Around	OSHD fish consumption advisory (1993): Mercury values in fish from Owyhee Reservoir ranged between 0.65 - 1.77 ppm which exceed EPA advisory levels of 0.6 ppm and FDA advisory levels of 1.0 ppm.	No Change
Lower Owyhee Black Willow Creek to Owyhee Reservoir	Owyhee River Dissolved Oxygen (DO)	Cold-water aquatic life: DO < 8 mg/l or 90% sat.	October 1 - March 31	USBR Data (Site OWY101, 200 m below Owyhee Dam; RM 29): 12% (5 of 42) October - March values exceeded rearing dissolved oxygen standard (8 mg/l or 90% saturation) with a minimum of 3.3 between WY 1986 - 1995 (Cold water rearing, approximately Oct - Mar).	No Change
Lower Owyhee Black Willow Creek to Owyhee Reservoir	Owyhee River Dissolved Oxygen (DO)	Salmonid spawning: water DO < 11mg/l	April 1 - September 30	USBR Data (Site OWY101, 200 meters below dam, RM 29): 51% (27 of 53) of April - September values exceeded spawning dissolved oxygen standard (11 mg/l or 95% saturation) with a minimum of 6.7 between WY 1986 - 95 (Cold water spawning, approx. April - Sept).	No Change
Lower Owyhee Mouth to Black Willow Creek	Owyhee River Bacteria	Water Contact Recreation (fecal coliform-96 Std)	Summer	USBR Data (Site OWY012, Hwy 201; RM 2.9): 38% (15 of 39) Summer values exceeded fecal coliform standard (400) with a maximum of 1400 between WY 1986 - 1995.	No Change
Lower Owyhee Mouth to Black Willow Creek	Owyhee River Chlorophyll a		Summer	USBR Data (Site OWY012, Hwy 201; RM 2.9): 29% (17 of 59) Annual values exceeded standard (15 ug/l) with 3 month averages exceeding standard in 88, 91, 92, 94, and 95 based on data collected between WY 1988 - 1995.	No Change
Lower Owyhee	Owyhee River				

Appendix E

Mouth to Black Willow Creek	Toxics	Water - Pesticides (Dieldrin)		USGS Data (Owyhee R @ Owyhee): 3 water samples with a range of 0.002 - 0.013 ug/l and an average of 0.008 ug/l exceeded Dieldrin standard (fresh chronic criteria - 0.0019 ug/l, water and fish ingestion - 0.071 ng/l) in 1990.	No Change
Lower Owyhee Mouth to Black Willow Creek	Owyhee River Toxics	Water - Pesticides (DDT)		USGS Data (Owyhee R @ Owyhee): 3 water samples with a range of 0.001 - 0.007 ug/l and an average of 0.005 ug/l exceeded DDT standard (fresh chronic criteria - 0.001 ug/l, water and fish ingestion - 0.024 ng/l) in 1990.	No Change
Lower Owyhee Owyhee Reservoir to headwaters	Owyhee River Toxics	Tissue - Mercury	Year Around	Health Division Consumption Health Advisory issues for Mercury in fish tissue (.56 ppm) based on data collected since 1969; Reference level (.35 ppm)	Addition
Lower Owyhee Owyhee Reservoir to Rome	Owyhee River Temperature	Rearing 64 F (17.8 C)	Summer	BLM sites at Birch Creek in 1995/96, 7 day ave. max. temperature was 78.6/91.5°F, and at Rome was 79.8/81.0°F both exceeded temperature standard of 64°F.	Addition
Middle Owyhee River mile 45 to Headwaters	Little Owyhee River, West Temperature	Rearing 64 F (17.8 C)	Summer	BLM site at Anderson Crossing in 1995/96, 7-day ave. max. temperature was 69.9/71.8°F, exceeded temperature standard of 64°F.	Addition

Appendix E

Middle Owyhee Rome to Idaho USBRder	Owyhee River Temperature	Rearing 64 F (17.8 C)	Summer	BLM site at Rome in 1995/96, 7-day ave. max. temperature was 79.8/81.0°F exceeded temperature standard of 64°F. Idaho listing of up stream segment.	Addition
Middle Owyhee Mouth to Idaho USBRder	Owyhee River, Middle Fork Temperature	Rearing 64 F (17.8 C)	Summer	BLM site at Three Forks in 1995/96, 7 day ave. max. temperature was 76.4/80.7°F, exceeded temperature standard of 64°F.	Addition
Middle Owyhee Mouth to Idaho USBRder	Owyhee River, North Fork Temperature	Rearing 64 F (17.8 C)	Summer	BLM site at Three Forks in 1995/96, 7 day ave. max. temperature was 74.2/77.9°F, exceeded temperature standard of 64°F.	Addition
Upper Quinn Mouth to Headwaters	Indian Creek Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (Site below Falls): 7 day average of daily maximums of 65 with 4 days exceeding temperature standard (64) in 1994.	No Change
Upper Quinn Mouth to Headwaters (Oregon Portion)	McDermitt Creek Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (Site downstream of Ford): 7 day average of daily maximums of 73 with 44 days exceeding temperature standard (64) in 1994.	No Change
Upper Quinn Mouth to Headwaters (Oregon Portion)	Sage Creek Temperature	Rearing 64 F (17.8 C)	Summer	ODFW Data (Site at canyon mouth): 7 day average of daily maximums of 76 with 36 days exceeding temperature standard (64) in 1994.	No Change