Appendix B. IBIS. 2003. Tables of Wildlife Species Occurrence, T&E, Partners in Flight, Historical References, and Environmental Setting in the Lake Chelan Subbasin.

Table 1. Wildlife species occurrence for the Lake Chelan subbasin, Washington (IBIS 2003).

	Common Name	Scientific Name	Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
Amphibians					
	Tiger Salamander	Ambystoma tigrinum		1	
		Ambystoma			
	Long-toed Salamander	macrodactylum		1	
	Pacific Giant	Dicamptodon			
	Salamander	tenebrosus	1		
	Rough-skinned Newt	Taricha granulosa			1
	Tailed Frog	Ascaphus truei		1	
	Court Davin Court of out	Scaphiopus		1	
	Great Basin Spadefoot	intermontanus		1	
	Western Toad Pacific Chorus (Tree)	Bufo boreas		1	
	Frog	Pseudacris regilla		1	
	Cascades Frog	Rana cascadae		1	
	Columbia Spotted Frog	Rana luteiventris		1	
	Bullfrog	Rana catesbeiana		1	
	Total Amphibians:	11 Total:	1	8	1
Birds	Total Ampiliotalis.	11 Total.	1	0	1
Dirus	Common Loon	Gavia immer	1		1
	Pied-billed Grebe		1		1
	Red-necked Grebe	Podilymbus podiceps	1		1
	Eared Grebe	Podiceps grisegena Podiceps nigricollis	1		1
	American Bittern				1
		Botaurus lentiginosus	1	1	1
	Great Blue Heron Black-crowned Night-	Ardea herodias	1	1	
	heron	Nycticorax nycticorax	1	1	
	Turkey Vulture	Cathartes aura	1	1	
	Canada Goose	Branta canadensis	1		1
	Tundra Swan	Cygnus columbianus			1
	Wood Duck	Aix sponsa		1	
	Gadwall	Anas strepera		1	1
	American Wigeon	Anas americana		+	1
	Mallard	Anas platyrhynchos	1	1	1
	Blue-winged Teal	Anas discors	1	1	1
	Cinnamon Teal	Anas cyanoptera			1
	Northern Shoveler	Anas clypeata			1
	Northern Pintail				1
		Anas acuta	1	+	_
	Green-winged Teal	Anas crecca	1		1
	Canvasback	Aythya valisineria	1		1

Common Name	Scientific Name	Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
Ring-necked Duck	Aythya collaris			
Greater Scaup	Aythya marila	1		
•	Histrionicus			
Harlequin Duck	histrionicus	1	1	
Barrow's Goldeneye	Bucephala islandica	1		
Hooded Merganser	Lophodytes cucullatus	1	1	
Common Merganser	Mergus merganser	1	1	
Ruddy Duck	Oxyura jamaicensis			1
Osprey	Pandion haliaetus	1		
Northern Harrier	Circus cyaneus			
Sharp-shinned Hawk	Accipiter striatus			
Cooper's Hawk	Accipiter cooperii			
Northern Goshawk	Accipiter gentilis			
Swainson's Hawk	Buteo swainsoni			
Red-tailed Hawk	Buteo jamaicensis	1		
Rough-legged Hawk	Buteo lagopus			
Golden Eagle	Aquila chrysaetos	1		
American Kestrel	Falco sparverius			
Gyrfalcon	Falco rusticolus	1		
Prairie Falcon	Falco mexicanus			
Chukar	Alectoris chukar			
Gray Partridge	Perdix perdix			
Ring-necked Pheasant	Phasianus colchicus		1	
Ruffed Grouse	Bonasa umbellus		1	
	Falcipennis			
Spruce Grouse	canadensis			
White-tailed Ptarmigan	Lagopus leucurus			
Blue Grouse	Dendragapus obscurus		1	
Sharp-tailed Grouse	Tympanuchus phasianellus		1	
Wild Turkey	Meleagris gallopavo			
California Quail	Callipepla californica			
Virginia Rail	Rallus limicola			1
Sora	Porzana carolina			1
American Coot	Fulica americana			1
Killdeer	Charadrius vociferus	1		
American Avocet	Recurvirostra americana			1
Greater Yellowlegs	Tringa melanoleuca	1		
Lesser Yellowlegs	Tringa flavipes			
Solitary Sandpiper	Tringa solitaria		1	
Spotted Sandpiper	Actitis macularia	1		
Long-billed Curlew	Numenius americanus			
Semipalmated	Calidris pusilla			

Common Name	Scientific Name	Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
Sandpiper				
Western Sandpiper	Calidris mauri			
Least Sandpiper	Calidris minutilla			
Baird's Sandpiper	Calidris bairdii			
Pectoral Sandpiper	Calidris melanotos			
Stilt Sandpiper	Calidris himantopus			
	Limnodromus			
Long-billed Dowitcher	scolopaceus			
Wilson's Snipe	Gallinago gallinago			1
Wilson's Phalarope	Phalaropus tricolor			1
Red-necked Phalarope	Phalaropus lobatus			
Ring-billed Gull	Larus delawarensis	1		
California Gull	Larus californicus	1		
Herring Gull	Larus argentatus	1		
Thayer's Gull	Larus thayeri	1		
Glaucous Gull	Larus hyperboreus	1		
Black Tern	Chlidonias niger			1
Rock Dove	Columba livia			
Mourning Dove	Zenaida macroura		1	
Barn Owl	Tyto alba			
Flammulated Owl	Otus flammeolus			
Western Screech-owl	Otus kennicottii		1	
Great Horned Owl	Bubo virginianus			
Snowy Owl	Nyctea scandiaca	1		
Northern Pygmy-owl	Glaucidium gnoma			
Burrowing Owl	Athene cunicularia			
Barred Owl	Strix varia			
Great Gray Owl	Strix nebulosa			
Long-eared Owl	Asio otus		1	
Short-eared Owl	Asio flammeus			1
Boreal Owl	Aegolius funereus			
Northern Saw-whet	, ,			
Owl	Aegolius acadicus			
Common Nighthawk	Chordeiles minor			
G 5	Phalaenoptilus			
Common Poorwill	nuttallii			
 Black Swift	Cypseloides niger		+	
Vaux's Swift	Chaetura vauxi			
 White-throated Swift	Aeronautes saxatalis		+	
Black-chinned Hummingbird	Archilochus alexandri			
Calliope Hummingbird Rufous Hummingbird	Stellula calliope Selasphorus rufus			
Belted Kingfisher	Ceryle alcyon	1	1	

Com	nmon Name	Scientific Name	Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
Lew	ris's Woodpecker	Melanerpes lewis			
	liamson's Sapsucker	Sphyrapicus thyroideus			
	-naped Sapsucker	Sphyrapicus nuchalis		1	
	-breasted				
	sucker	Sphyrapicus ruber			
	vny Woodpecker	Picoides pubescens			
	y Woodpecker	Picoides villosus			
	te-headed	D: :1 11 1			
	odpecker ee-toed	Picoides albolarvatus			
	ee-toed odpecker	Picoides tridactylus			
	ck-backed	1 icomes ir muciyius		+	
	odpecker	Picoides arcticus			
	thern Flicker	Colaptes auratus			
	ated Woodpecker	Dryocopus pileatus		1	
	re-sided Flycatcher	Contopus cooperi			
	stern Wood-pewee	Contopus sordidulus			
	low Flycatcher	Empidonax traillii	1	1	
	nmond's Flycatcher	Empidonax hammondii			
	y Flycatcher	Empidonax wrightii			
014.) I I j catellel	Empidonax			
Dus	ky Flycatcher	oberholseri			
	fic-slope				
Flyc	atcher	Empidonax difficilis			
		Empidonax			
	dilleran Flycatcher	occidentalis		1	
	s Phoebe	Sayornis saya			
	stern Kingbird	Tyrannus verticalis			
H	ern Kingbird	Tyrannus tyrannus			
	gerhead Shrike	Lanius ludovicianus			
	thern Shrike	Lanius excubitor			
	sin's Vireo	Vireo cassinii			
War	bling Vireo	Vireo gilvus		1	
Red	-eyed Vireo	Vireo olivaceus		1	
Gray	y Jay	Perisoreus canadensis	1		
	ler's Jay	Cyanocitta stelleri	1		
	k's Nutcracker	Nucifraga columbiana			
Blac	ck-billed Magpie	Pica pica	1	1	
		Corvus			
	erican Crow	brachyrhynchos	1		
	thwestern Crow	Corvus caurinus	1		
	nmon Raven	Corvus corax	1	1	
	ned Lark	Eremophila alpestris		1	
Tree	Swallow	Tachycineta bicolor	1	1	

Common Name	Scientific Name	Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
	Tachycineta			
Violet-green Swallow	thalassina	1		
Northern Rough-	Stelgidopteryx	1	1	
winged Swallow Bank Swallow	serripennis	1	1	
Bank Swallow	Riparia riparia Petrochelidon	1	1	
Cliff Swallow	pyrrhonota	1	1	
Barn Swallow	Hirundo rustica	1	1	
Black-capped	Titrunao rustica	1	1	
Chickadee	Poecile atricapillus			
Mountain Chickadee	Poecile gambeli			
Chestnut-backed	0			
Chickadee	Poecile rufescens			
Boreal Chickadee	Poecile hudsonicus			
Red-breasted Nuthatch	Sitta canadensis			
 White-breasted				
Nuthatch	Sitta carolinensis			
Pygmy Nuthatch	Sitta pygmaea		1	
Brown Creeper	Certhia americana			
Rock Wren	Salpinctes obsoletus			
Canyon Wren	Catherpes mexicanus			
House Wren	Troglodytes aedon			
WindowsWines	Troglodytes	1		
Winter Wren	troglodytes	1		1
Marsh Wren	Cistothorus palustris	1	1	1
American Dipper Golden-crowned	Cinclus mexicanus	1	1	
Kinglet	Regulus satrapa			
Ruby-crowned Kinglet	Regulus calendula			
Western Bluebird	Sialia mexicana			
Mountain Bluebird	Sialia currucoides			
Townsend's Solitaire	Myadestes townsendi			
Veery	Catharus fuscescens		1	
Swainson's Thrush	Catharus ustulatus			
Hermit Thrush	Catharus guttatus			
American Robin	Turdus migratorius	1		
Varied Thrush	Ixoreus naevius	1		
	Dumetella			
 Gray Catbird	carolinensis		1	
Saga Threaker	Oreoscoptes			
Sage Thrasher	montanus Stumus mulagris		1	
European Starling	Sturnus vulgaris		1	
American Pipit	Anthus rubescens			
Bohemian Waxwing	Bombycilla garrulus		1	
Cedar Waxwing	Bombycilla cedrorum		1	
Orange-crowned	Vermivora celata			

Common Name	Scientific Name	Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
Warbler				
Nashville Warbler	Vermivora ruficapilla			
Yellow Warbler	Dendroica petechia		1	
Yellow-rumped Warbler	Dendroica coronata			
Black-throated Gray Warbler	Dendroica nigrescens			
Townsend's Warbler	Dendroica townsendi			
American Redstart	Setophaga ruticilla		1	
	Seiurus			
Northern Waterthrush	noveboracensis	 	1	
 Macgillivray's Warbler	Oporornis tolmiei	 	1	
Common Yellowthroat	Geothlypis trichas		1	
Wilson's Warbler	Wilsonia pusilla			
Yellow-breasted Chat	Icteria virens		1	
 Western Tanager	Piranga ludoviciana		<u> </u>	
Spotted Towhee	Pipilo maculatus	1		
American Tree	G · 11 1			
Sparrow	Spizella arborea		 	
Chipping Sparrow	Spizella passerina		 	
Brewer's Sparrow	Spizella breweri		 	
Vesper Sparrow	Pooecetes gramineus Chondestes		 	
Lark Sparrow	grammacus			
Black-throated Sparrow	Amphispiza bilineata		-	
Sage Sparrow	Amphispiza belli			
Sage Sparrow	Passerculus			
Savannah Sparrow	sandwichensis			
	Ammodramus			
Grasshopper Sparrow	savannarum			
Fox Sparrow	Passerella iliaca		1	
Song Sparrow	Melospiza melodia	1		
Lincoln's Sparrow	Melospiza lincolnii		1	
White-crowned	Zonotrichia			
Sparrow	leucophrys		 	
 Dark-eyed Junco	Junco hyemalis			
 Lapland Longspur	Calcarius lapponicus			
Snow Bunting	Plectrophenax nivalis		 	
Disch has 4:4 C 1 1	Pheucticus			
Black-headed Grosbeak	melanocephalus		1	
 Lazuli Bunting	Passerina amoena	<u> </u>	1	
Bobolink	Dolichonyx oryzivorus			
Red-winged Blackbird	Agelaius phoeniceus	1	†	1
Western Meadowlark	Sturnella neglecta	1	+	-
Coloin micado widin				

	Common Name	Scientific Name	Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
	Blackbird	xanthocephalus			
		Euphagus			
	Brewer's Blackbird	cyanocephalus			
	Brown-headed				
	Cowbird	Molothrus ater			
	Bullock's Oriole	Icterus bullockii		1	
	Gray-crowned Rosy- Finch	Leucosticte			
	Pine Grosbeak	tephrocotis Pinicola enucleator			
	Cassin's Finch				
	Cassin's Finch	Carpodacus cassinii Carpodacus			
	House Finch	mexicanus			
	Red Crossbill	Loxia curvirostra			
	White-winged Crossbill	Loxia leucoptera			
	Common Redpoll	Carduelis flammea			
	Pine Siskin	Carduelis pinus			
	American Goldfinch	Carduelis tristis			
	7 Interious Goldmen	Coccothraustes			
	Evening Grosbeak	vespertinus			
	House Sparrow	Passer domesticus			
	Total Birds:	221 Total:	47	42	28
Mammals					
	Virginia Opossum	Didelphis virginiana	1		
	Masked Shrew	Sorex cinereus	1		
	Vagrant Shrew	Sorex vagrans	1		
	Montane Shrew	Sorex monticolus	1		
	Water Shrew	Sorex palustris	1	1	
	Pacific Water Shrew	Sorex bendirii	1		
	Trowbridge's Shrew	Sorex trowbridgii	1		
	Merriam's Shrew	Sorex merriami			
	Shrew-mole	Neurotrichus gibbsii			
	Coast Mole	Scapanus orarius			
	California Myotis	Myotis californicus			
	Western Small-footed				
	Myotis	Myotis ciliolabrum		1	
	Yuma Myotis	Myotis yumanensis		1	
	Little Brown Myotis	Myotis lucifugus			
	Long-legged Myotis	Myotis volans		1	
	Fringed Myotis	Myotis thysanodes			
	Long-eared Myotis	Myotis evotis			
	Cilver beined Det	Lasionycteris			
	Silver-haired Bat	noctivagans Dinistrallys hasnams		1	
	Western Pipistrelle	Pipistrellus hesperus		1	
	Big Brown Bat	Eptesicus fuscus		1	
	Hoary Bat	Lasiurus cinereus	1	1	l

Common Name	Scientific Name	Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
Spotted Bat	Euderma maculatum			
Townsend's Big-eared	Corynorhinus			
Bat	townsendii			
Pallid Bat	Antrozous pallidus		1	
American Pika	Ochotona princeps			
Nuttall's (Mountain) Cottontail	Sylvilagus nuttallii			
Snowshoe Hare	Lepus americanus		1	
White-tailed Jackrabbit	Lepus townsendii			
Black-tailed Jackrabbit	Lepus californicus			
Mountain Beaver	Aplodontia rufa			
Least Chipmunk	Tamias minimus			
Yellow-pine Chipmunk	Tamias amoenus			
Townsend's Chipmunk	Tamias townsendii			
Yellow-bellied Marmot	Marmota flaviventris			
Hoary Marmot	Marmota caligata			
Washington Ground	Spermophilus			
Squirrel	washingtoni			
Columbian Ground	Spermophilus			
Squirrel	columbianus			
Golden-mantled	Spermophilus			
Ground Squirrel	lateralis			
Cascade Golden- mantled Ground Squirrel	Spermophilus saturatus			
Eastern Fox Squirrel	Sciurus niger			
Western Gray Squirrel	Sciurus niger Sciurus griseus			
western Gray Squirrer	Tamiasciurus			
Red Squirrel	hudsonicus			
Tital Squiii i	Tamiasciurus			
Douglas' Squirrel	douglasii	1		
Northern Flying				
Squirrel	Glaucomys sabrinus	1		
Northern Pocket				
Gopher	Thomomys talpoides			
Great Basin Pocket Mouse	Perognathus parvus			
American Beaver	Castor canadensis		1	
Western Harvest	Reithrodontomys			
Mouse	megalotis		1	
Deer Mouse	Peromyscus maniculatus	1	1	
Columbian Mouse	Peromyscus keeni	1	1	
Northern Grasshopper	Onychomys			
Mouse	leucogaster			
Bushy-tailed Woodrat	Neotoma cinerea		1	
Southern Red-backed	Clethrionomys		1	

Common Name	Scientific Name	Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
Vole	gapperi			
Heather Vole	Phenacomys intermedius			
Meadow Vole	Microtus pennsylvanicus		1	
Montane Vole	Microtus montanus			1
Long-tailed Vole	Microtus longicaudus		1	
Creeping Vole	Microtus oregoni			
Water Vole	Microtus richardsoni		1	
Sagebrush Vole	Lemmiscus curtatus			
Muskrat	Ondatra zibethicus		1	
Northern Bog				
Lemming	Synaptomys borealis			1
Black Rat	Rattus rattus			
Norway Rat	Rattus norvegicus			
House Mouse	Mus musculus			
Western Jumping				
Mouse	Zapus princeps		1	
Pacific Jumping Mouse	Zapus trinotatus		1	
Common Porcupine	Erethizon dorsatum			
Nutria	Myocastor coypus			1
Coyote	Canis latrans	1		
Gray Wolf	Canis lupus	1		
Red Fox	Vulpes vulpes	1		
Black Bear	Ursus americanus	1		
Grizzly Bear	Ursus arctos	1		
Raccoon	Procyon lotor	1	1	
American Marten	Martes americana	1		
Fisher	Martes pennanti	1		
Ermine	Mustela erminea			
Long-tailed Weasel	Mustela frenata	1		
Mink	Mustela vison	1	1	
Wolverine	Gulo gulo	1		
American Badger	Taxidea taxus			
Striped Skunk	Mephitis mephitis	1		
Northern River Otter	Lutra canadensis	1	1	
Mountain Lion	Puma concolor	1		
Lynx	Lynx canadensis			
Bobcat	Lynx rufus	1		
Elk	Cervus elaphus			
Mule Deer	Odocoileus hemionus			
White-tailed Deer	Odocoileus virginianus			
Moose	Alces alces			
Mountain Goat	Oreamnos			

	Common Name	Scientific Name		Salmonid Relationship	Closely Associated with Riparian Wetland	Closely Associated with Other Wetlands
		americanus				
	Bighorn Sheep	Ovis canadens	is		22	
	Total Mammals:	93	Total:	25	22	3
Reptiles						
	Painted Turtle	Chrysemys pic	ta			
	Northern Alligator					
	Lizard	Elgaria coerul	ea			
		Phrynosoma				
	Short-horned Lizard	douglassii				
	Sagebrush Lizard	Sceloporus gra	aciosus			
	Western Fence Lizard	Sceloporus occidentalis				
	Side-blotched Lizard	Uta stansburia				
	Western Skink	Eumeces skilto				
	Rubber Boa	ł				
		Charina bottae				
	Racer	Coluber constr	rictor			
	Sharptail Snake	Contia tenuis				
	Night Snake	Hypsiglena tor	•			
	Striped Whipsnake	Masticophis ta				
	Gopher Snake	Pituophis cate	nifer			
	Western Terrestrial Garter Snake	Thamnophis el	legans	1		
	Common Garter Snake	Thamnophis si		1	1	
	Western Rattlesnake	Crotalus viridi				
	Total Reptiles:	16	Total:	2	1	0
	Total Species:	341	Total:	75	73	32

Table 2. Species richness and associations for the Lake Chelan subbasin, Washington (IBIS 2003).

Class	Lake Chelan	% of Total	Total (Ecoprovince)
Amphibians	11	65	17
Birds	221	94	234
Mammals	93	96	97
Reptiles	16	84	19
Total	342	93	367
Association			
Riparian Wetlands	73	94	78
Other Wetlands (Herbaceous and Montane Coniferous)	32	86	37
All Wetlands	105	91	115
Salmonids	75	90	83

Table 3. Non-native wildlife species of the Lake Chelan subbasin, Washington (IBIS 2003).

Common Name	Scientific Name
Bullfrog	Rana catesbeiana
Chukar	Alectoris chukar
Gray Partridge	Perdix perdix
Ring-necked Pheasant	Phasianus colchicus
Wild Turkey	Meleagris gallopavo
California Quail	Callipepla californica
Rock Dove	Columba livia
European Starling	Sturnus vulgaris
House Sparrow	Passer domesticus
Virginia Opossum	Didelphis virginiana
Eastern Cottontail	Sylvilagus floridanus
Cascade Golden-mantled Ground Squirrel	Spermophilus saturatus
Eastern Gray Squirrel	Sciurus carolinensis
Black Rat	Rattus rattus
Norway Rat	Rattus norvegicus
House Mouse	Mus musculus
Nutria	Myocastor coypus

Table 4. Threatened and endangered species of the Lake Chelan subbasin, Washington (IBIS 2003).

	Common Name	Scientific Name	State	Status	Federal Status
Amphibians					
	Dunn's Salamander	Plethodon dunni	WA	Candidate Species	
	Western Toad	Bufo boreas	WA	Candidate Species	
	Columbia Spotted Frog	Rana luteiventris	WA	Candidate Species	
	Northern Leopard Frog	Rana pipiens	WA	Endangered	
Total Listed A	mphibians:	4		•	

	Common Name	Scientific Name	State Status		Federal Status
Birds	C I	<i>C</i> · ·	337 A	g : t: -	
	Common Loon	Gavia immer	WA	Sensitive Candidate	
	Western Grebe	Aechmophorus occidentalis	WA	Species	
	Northern Goshawk	Accipiter gentilis	WA	Candidate Species	
	Ferruginous Hawk	Buteo regalis	WA	Threatened	
	Golden Eagle	Aquila chrysaetos	WA	Candidate Species	
	Sage Grouse	Centrocercus urophasianus	WA	Threatened	Anticipated Candidate
	Sharp-tailed Grouse	Tympanuchus phasianellus	WA	Threatened	
	Marbled Murrelet	Brachyramphus marmoratus	WA	Threatened	Threatened
	Flammulated Owl	Otus flammeolus	WA	Candidate Species	
	Burrowing Owl	Athene cunicularia	WA	Candidate Species	
	Spotted Owl	Strix occidentalis	WA	Endangered	Threatened
	Vaux's Swift	Chaetura vauxi	WA	Candidate Species	
	Lewis's Woodpecker	Melanerpes lewis	WA	Candidate Species	
	White-headed Woodpecker	Picoides albolarvatus	WA	Candidate Species	
	Black-backed Woodpecker	Picoides arcticus	WA	Candidate Species	
	Pileated Woodpecker	Dryocopus pileatus	WA	Candidate Species	
	Loggerhead Shrike	Lanius ludovicianus	WA	Candidate Species	
	Horned Lark	Eremophila alpestris	WA	Candidate Species	Candidate
	White-breasted Nuthatch	Sitta carolinensis	WA	Candidate Species	
	Sage Thrasher	Oreoscoptes montanus	WA	Candidate Species	
	Vesper Sparrow	Pooecetes gramineus	WA	Candidate Species	
	Sage Sparrow	Amphispiza belli	WA	Candidate Species	
Total Listed	Birds:	22			
Mammals					
	Merriam's Shrew	Sorex merriami	WA	Candidate Species	
	Townsend's Big-eared Bat	Corynorhinus townsendii	WA	Candidate Species	
	Pygmy Rabbit	Brachylagus idahoensis	WA	Endangered	Endangered
	White-tailed Jackrabbit	Lepus townsendii	WA	Candidate Species	
	Black-tailed Jackrabbit	Lepus californicus	WA	Candidate	

	Common Name	Scient	ific Name	State Status		Federal Status
					Species	
	Washington Ground Squirrel	Sperm washii	ophilus ngtoni	WA	Candidate Species	Anticipated Candidate
	Western Gray Squirrel	Sciuru	s griseus	WA	Threatened	
	Northern Pocket Gopher	Thoma	omys talpoides	WA	Candidate Species	
	Gray Wolf	Canis	lupus	WA	Endangered	Endangered
	Grizzly Bear	Ursus	arctos	WA	Endangered	Threatened
	Fisher	Marte	s pennanti	WA	Endangered	
	Wolverine	Gulo g	gulo	WA	Candidate Species	
	Lynx	Lynx c	canadensis	WA	Threatened	Threatened
	White-tailed Deer	Odoco virgin		WA	Endangered	Endangered
Total Listed Ma	ammals:	14				
Reptiles						
	Sharptail Snake	Contid	ı tenuis	WA	Candidate Species	
	Striped Whipsnake	Mastic	cophis taeniatus	WA	Candidate Species	
Total Listed Reptiles:		2			-	
Total Listed Sp	ecies:	42				

Table 5. Partners in Flight species of the Lake Chelan subbasin, Washington (IBIS 2003).

Common Name	Scientific Name	PIF 1998- 1999 Continental	PIF Ranking by Super Region Draft 2002	WA PIF Priority & Focal Species
Northern Harrier	Circus cyaneus			Yes
Swainson's Hawk	Buteo swainsoni		MO (Intermountain West, Prairies)	Yes
Ferruginous Hawk	Buteo regalis			Yes
Rough-legged Hawk	Buteo lagopus		PR (Arctic)	
American Kestrel	Falco sparverius			Yes
Gyrfalcon	Falco rusticolus		PR (Arctic)	
Sage Grouse	Centrocercus urophasianus		MA (Intermountain West, Prairies)	
Spruce Grouse	Falcipennis canadensis		PR (Northern Forests)	
White-tailed Ptarmigan	Lagopus leucurus		MO (Arctic)	
Blue Grouse	Dendragapus obscurus		MA (Pacific, Intermountain West)	
Sharp-tailed Grouse	Tympanuchus phasianellus		MO (Prairies)	Yes
Long-billed Curlew	Numenius americanus	Yes		
Stilt Sandpiper	Calidris himantopus	Yes		
Flammulated Owl	Otus flammeolus		MO (Pacific, Intermountain	Yes

Common Name	Scientific Name	PIF 1998- 1999 Continental	PIF Ranking by Super Region Draft 2002	WA PIF Priority & Focal Species
			West, Southwest)	
Snowy Owl	Nyctea scandiaca		PR (Arctic)	
Northern Pygmy-owl	Glaucidium gnoma		PR (Pacific)	
Burrowing Owl	Athene cunicularia		(Yes
Spotted Owl	Strix occidentalis	IM (Pacific, Intermountain West, Southwest)		
Great Gray Owl	Strix nebulosa			Yes
Short-eared Owl	Asio flammeus	Yes	MA (Arctic, Northern Forests, Intermountain West, Prairies)	Yes
Common Poorwill	Phalaenoptilus nuttallii			Yes
Black Swift	Cypseloides niger	Yes	IM (Pacific, Intermountain West)	Yes
Vaux's Swift	Chaetura vauxi			Yes
White-throated Swift	Aeronautes saxatalis		MA (Intermountain West, Southwest)	Yes
Calliope Hummingbird	Stellula calliope		MO (Intermountain West)	Yes
Rufous Hummingbird	Selasphorus rufus	Yes	MA (Pacific, Intermountain West)	Yes
Lewis's Woodpecker	Melanerpes lewis	Yes	MO (Intermountain West, Prairies)	Yes
Williamson's Sapsucker	Sphyrapicus thyroideus		MO (Intermountain West)	Yes
Red-naped Sapsucker	Sphyrapicus nuchalis		MO (Intermountain West)	Yes
Red-breasted Sapsucker	Sphyrapicus ruber		MO (Pacific)	Yes
Downy Woodpecker	Picoides pubescens			Yes
White-headed Woodpecker	Picoides albolarvatus	Yes	PR (Pacific, Intermountain West)	Yes
Three-toed Woodpecker	Picoides tridactylus		PR (Northern Forests)	
Black-backed Woodpecker	Picoides arcticus		PR (Northern Forests)	Yes
Pileated Woodpecker	Dryocopus pileatus			Yes

Common Name	Scientific Name	PIF 1998- 1999 Continental	PIF Ranking by Super Region Draft 2002	WA PIF Priority & Focal Species
Olive-sided Flycatcher	Contopus cooperi		MA (Pacific, Northern Forests, Intermountain West)	Yes
Western Wood-pewee	Contopus sordidulus			Yes
Willow Flycatcher	Empidonax traillii		MA (Prairies, East)	Yes
Hammond's Flycatcher	Empidonax hammondii			Yes
Gray Flycatcher	Empidonax wrightii		PR (Intermountain West)	Yes
Dusky Flycatcher	Empidonax oberholseri		MA (Intermountain West)	Yes
Pacific-slope Flycatcher	Empidonax difficilis		PR (Pacific)	Yes
Loggerhead Shrike	Lanius ludovicianus			Yes
Northern Shrike	Lanius excubitor		PR (Northern Forests)	
Warbling Vireo	Vireo gilvus			Yes
Red-eyed Vireo	Vireo olivaceus			Yes
Gray Jay	Perisoreus canadensis		PR (Northern Forests)	
Clark's Nutcracker	Nucifraga columbiana		PR (Intermountain West)	Yes
Horned Lark	Eremophila alpestris			Yes
Bank Swallow	Riparia riparia			Yes
Chestnut-backed Chickadee	Poecile rufescens		PR (Pacific)	
Boreal Chickadee	Poecile hudsonicus		MA (Northern Forests)	
White-breasted Nuthatch	Sitta carolinensis			Yes
Brown Creeper	Certhia americana			Yes
House Wren	Troglodytes aedon			Yes
Winter Wren	Troglodytes troglodytes			Yes
American Dipper	Cinclus mexicanus			Yes
Western Bluebird	Sialia mexicana			Yes
Mountain Bluebird	Sialia currucoides		PR (Intermountain West)	
Townsend's Solitaire	Myadestes townsendi		Í	Yes
Veery	Catharus fuscescens			Yes
Swainson's Thrush	Catharus ustulatus			Yes
Hermit Thrush	Catharus guttatus			Yes
Varied Thrush	Ixoreus naevius			Yes
Sage Thrasher	Oreoscoptes montanus		PR (Intermountain West)	Yes
American Pipit	Anthus rubescens		PR (Arctic)	Yes

Common Name	Scientific Name	PIF 1998- 1999 Continental	PIF Ranking by Super Region Draft 2002	WA PIF Priority & Focal Species
Bohemian Waxwing	Bombycilla garrulus	Continuentar	MA (Northern Forests)	1 ocal species
Orange-crowned Warbler	Vermivora celata		,	Yes
Nashville Warbler	Vermivora ruficapilla		PR (Northern Forests)	Yes
Yellow Warbler	Dendroica petechia			Yes
Yellow-rumped Warbler	Dendroica coronata			Yes
Black-throated Gray Warbler	Dendroica nigrescens		MO (Pacific)	Yes
Townsend's Warbler	Dendroica townsendi			Yes
Hermit Warbler	Dendroica occidentalis	Yes	MO (Pacific)	Yes
Macgillivray's Warbler	Oporornis tolmiei			Yes
Wilson's Warbler	Wilsonia pusilla			Yes
Yellow-breasted Chat	Icteria virens			Yes
Western Tanager	Piranga ludoviciana			Yes
Chipping Sparrow	Spizella passerina			Yes
Brewer's Sparrow	Spizella breweri	Yes	MA (Intermountain West)	Yes
Vesper Sparrow	Pooecetes gramineus			Yes
Lark Sparrow	Chondestes grammacus			Yes
Black-throated Sparrow	Amphispiza bilineata			Yes
Sage Sparrow	Amphispiza belli	Yes	PR (Intermountain West)	Yes
Grasshopper Sparrow	Ammodramus savannarum		MA (Prairies)	Yes
Fox Sparrow	Passerella iliaca			Yes
Lincoln's Sparrow	Melospiza lincolnii		PR (Northern Forests)	Yes
Lapland Longspur	Calcarius lapponicus		PR (Arctic)	
Snow Bunting	Plectrophenax nivalis		PR (Arctic)	
Black-headed Grosbeak	Pheucticus melanocephalus			Yes
Bobolink	Dolichonyx oryzivorus	Yes		
Western Meadowlark	Sturnella neglecta			Yes
Bullock's Oriole	Icterus bullockii			Yes
Pine Grosbeak	Pinicola enucleator		MO (Northern Forests)	
Purple Finch	Carpodacus purpureus			Yes
Cassin's Finch	Carpodacus cassinii		MA (Intermountain West)	
Red Crossbill	Loxia curvirostra			Yes
White-winged Crossbill	Loxia leucoptera		PR (Northern Forests)	
T 1.0				
Total Species:	98			

Table 6. Wildlife game species of the Lake Chelan subbasin, Washington (IBIS 2003).

	Common Name	Scientific Name	WA
Amphibians			
	Bullfrog	Rana catesbeiana	Game Species
	Total Game Amphibians:	1	
Birds	•		
	Canada Goose	Branta canadensis	Game Bird
	Wood Duck	Aix sponsa	Game Bird
	Gadwall	Anas strepera	Game Bird
	American Wigeon	Anas americana	Game Bird
	Mallard	Anas platyrhynchos	Game Bird
	Blue-winged Teal	Anas discors	Game Bird
	Cinnamon Teal	Anas cyanoptera	Game Bird
	Northern Shoveler	Anas clypeata	Game Bird
	Northern Pintail	Anas acuta	Game Bird
	Green-winged Teal	Anas crecca	Game Bird
	Canvasback	Aythya valisineria	Game Bird
	Redhead	Aythya americana	Game Bird
	Ring-necked Duck	Aythya collaris	Game Bird
	Greater Scaup	Aythya marila	Game Bird
	Harlequin Duck	Histrionicus histrionicus	Game Bird
	Barrow's Goldeneye	Bucephala islandica	Game Bird
	Hooded Merganser	Lophodytes cucullatus	Game Bird
	Common Merganser	Mergus merganser	Game Bird
	Ruddy Duck	Oxyura jamaicensis	Game Bird
	Chukar	Alectoris chukar	Game Bird
	Gray Partridge	Perdix perdix	Game Bird
	Ring-necked Pheasant	Phasianus colchicus	Game Bird
	Ruffed Grouse	Bonasa umbellus	Game Bird
	Spruce Grouse	Falcipennis canadensis	Game Bird
	White-tailed Ptarmigan	Lagopus leucurus	Game Bird
	Blue Grouse	Dendragapus obscurus	Game Bird
	Wild Turkey	Meleagris gallopavo	Game Bird
	California Quail	Callipepla californica	Game Bird
	American Coot	Fulica americana	Game Bird
	Common Snipe	Gallinago gallinago	Game Bird
	Mourning Dove	Zenaida macroura	Game Bird
	Total Game Birds:	31	Gaine Bild
Mammals	Total Game Dilus.	31	
viaiiiiiais			Game
	Eastern Cottontail	Sylvilagus floridanus	Mammal
	Lastern Cottonian	Syrvitagus frortaunus	Game
	Nuttall's (Mountain) Cottontail	Sylvilagus nuttallii	Mammal
	(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,g	Game
	Snowshoe Hare	Lepus americanus	Mammal
			Game
	White-tailed Jackrabbit	Lepus townsendii	Mammal
			Game
	Black-tailed Jackrabbit	Lepus californicus	Mammal

		Game
American Beaver	Castor canadensis	Mammal
		Game
Muskrat	Ondatra zibethicus	Mammal
		Game
Red Fox	Vulpes vulpes	Mammal
		Game
Black Bear	Ursus americanus	Mammal
_		Game
Raccoon	Procyon lotor	Mammal
	16	Game
American Marten	Martes americana	Mammal Game
E-main a	Martala	Mammal
Ermine	Mustela erminea	
Lang toiled Wassal	Mustala francta	Game
Long-tailed Weasel	Mustela frenata	Mammal Game
Mink	Mustela vison	Mammal
WIIIK	Musicia vison	Game
American Badger	Taxidea taxus	Mammal
American Baager	Tunucu tunus	Game
Northern River Otter	Lutra canadensis	Mammal
		Game
Mountain Lion	Puma concolor	Mammal
		Game
Bobcat	Lynx rufus	Mammal
		Game
Elk	Cervus elaphus	Mammal
		Game
Rocky Mountain Elk	Cervus elaphus nelsoni	Mammal
		Game
Mule Deer	Odocoileus hemionus	Mammal
		Game
Black-tailed Deer (westside)	Odocoileus hemionus columbianus	Mammal
Maria	41 1	Game
Moose	Alces alces	Mammal
Mayntain Cast	Ougammag amoni	Game
 Mountain Goat	Oreamnos americanus	Mammal Game
Bighorn Sheep	Ovis canadensis	Mammal
	25	Manniai
Total Game Mammals:	23	
Total Game Species:	57	

Establishment of conditions favorable to focal species also will likely benefit a wider group of species with similar habitat requirements (<u>Table 12</u>).

Table 7. Wildlife species occurrence by focal wildlife habitat type in the Lake Chelan subbasin, Washington (IBIS 2003).

Calliope Hummingbird	Coast Mole	Cooper's Hawk	
Canada Goose	Columbia Spotted Frog	Coyote	
	Columbian Ground		
Canyon Wren	Squirrel	Deer Mouse	
Cascade Frog	Common Garter Snake	Eastern Kingbird	
Cassin's Finch	Common Nighthawk	European Starling	
Cassin's Vireo	Common Poorwill	Fringed Myotis	
Cedar Waxwing	Common Porcupine	Golden Eagle	
		Golden-mantled Ground	
Chipping Sparrow	Common Raven	Squirrel	
Chukar	Cooper's Hawk	Gopher Snake	
Cliff Swallow	Coyote	Grasshopper Sparrow	
Coast Mole	Dark-eyed Junco	Gray Flycatcher	
Columbia Spotted Frog	Deer Mouse	Gray Partridge	
Columbian Ground Squirrel	Douglas' Squirrel	Great Basin Pocket Mouse	
Columbian Mouse	Downy Woodpecker	Great Basin Spadefoot	
Common Garter Snake	Dusky Flycatcher	Great Horned Owl	
Common Merganser	Eastern Kingbird	Greater Yellowlegs	
Common Nighthawk	Ermine	Hoary Bat	
Common Porcupine	European Starling	Horned Lark	
Common Raven	Evening Grosbeak	Killdeer	
Common Redpoll	Fisher	Lark Sparrow	
Common Yellowthroat	Flammulated Owl	Least Chipmunk	
Cooper's Hawk	Fox Sparrow	Lesser Yellowlegs	
Cordilleran Flycatcher	Fringed Myotis	Little Brown Myotis	
Coyote	Golden Eagle	Loggerhead Shrike	
Creeping Vole	Golden-crowned Kinglet	Long-billed Curlew	
Creeping voic	Golden-mantled Ground	Long omea carren	
Dark-eyed Junco	Squirrel	Long-eared Myotis	
Deer Mouse	Gopher Snake	Long-eared Owl	
Downy Woodpecker	Gray Flycatcher	Long-legged Myotis	
Dusky Flycatcher	Gray Jay	Long-tailed Vole	
Eastern Fox Squirrel	Gray Wolf	Long-tailed Weasel	
Eastern Kingbird	Great Basin Spadefoot	Long-toed Salamander	
Ermine	Great Gray Owl	Mallard	
European Starling	Great Horned Owl	Merriam's Shrew	
Evening Grosbeak	Grizzly Bear	Mink	
Fisher	Hairy Woodpecker	Montane Vole	
Flammulated Owl	Hammond's Flycatcher	Mountain Bluebird	
Fox Sparrow	Hermit Thrush	Mourning Dove	
Fringed Myotis	Hoary Bat	Mule Deer	
Golden Eagle	House Finch	Nashville Warbler	
Golden-crowned Kinglet	House Wren	Night Snake	
Golden-mantled Ground			
Squirrel	Killdeer	Northern Flicker	
Gopher Snake	Lark Sparrow	Northern Goshawk	
	T. II.D. II	Northern Grasshopper	
Gray Catbird	Lazuli Bunting	Mouse	

Gray Jay	Least Chipmunk	Northern Harrier	
Great Basin Spadefoot	Lewis's Woodpecker	Northern Pocket Gopher	
•	1	Northern Rough-winged	
Great Blue Heron	Little Brown Myotis	Swallow	
Great Horned Owl	Long-eared Myotis	Northern Shrike	
		Nuttall's (Mountain)	
Greater Yellowlegs	Long-eared Owl	Cottontail	
Green-winged Teal	Long-legged Myotis	Orange-crowned Warbler	
Grizzly Bear	Long-tailed Vole	Osprey	
Hairy Woodpecker	Long-tailed Weasel	Pacific Chorus (Tree) Frog	
Harlequin Duck	Long-toed Salamander	Painted Turtle	
Heather Vole	Macgillivray's Warbler	Pallid Bat	
Hermit Thrush	Masked Shrew	Prairie Falcon	
Hoary Bat	Mink	Racer	
Hooded Merganser	Montane Vole	Red-tailed Hawk	
House Finch	Mountain Bluebird	Ring-necked Pheasant	
House Wren	Mountain Chickadee	Rock Dove	
Killdeer	Mountain Lion	Rock Wren	
Lazuli Bunting	Mourning Dove	Rocky Mountain Elk	
Least Chipmunk	Mule Deer	Rough-legged Hawk	
Lesser Yellowlegs	Nashville Warbler	Rough-skinned Newt	
Lewis's Woodpecker	Night Snake	Rubber Boa	
Lincoln's Sparrow	Northern Alligator Lizard	Sage Sparrow	
Little Brown Myotis	Northern Flicker	Sage Thrasher	
Long-eared Myotis	Northern Flying Squirrel	Sagebrush Lizard	
Long-eared Owl	Northern Goshawk	Sagebrush Vole	
Long-legged Myotis	Northern Pocket Gopher	Savannah Sparrow	
Long-tailed Vole	Northern Pygmy-owl	Say's Phoebe	
Long-tailed Weasel	Northern Rough-winged Swallow	Sharp-shinned Hawk	
Long-toed Salamander	Northern Saw-whet Owl	Sharp-tailed Grouse	
Macgillivray's Warbler	Olive-sided Flycatcher	Short-eared Owl	
Mallard	Orange-crowned Warbler	Short-horned Lizard	
Masked Shrew	Osprey	Side-blotched Lizard	
	Pacific Chorus (Tree)		
Meadow Vole	Frog	Snow Bunting	
Mink	Pacific Jumping Mouse	Solitary Sandpiper	
Montane Shrew	Painted Turtle	Spotted Bat	
Montane Vole	Pallid Bat	Spotted Sandpiper	
Moose	Pileated Woodpecker	Striped Whipsnake	
Mountain Bluebird	Pine Siskin	Swainson's Hawk	
Mountain Chickadee	Prairie Falcon	Tiger Salamander	
		Townsend's Big-eared	
Mountain Lion	Pygmy Nuthatch	Bat	
Mourning Dove	Racer	Townsend's Solitaire	
Mule Deer	Red Crossbill	Turkey Vulture	
Muskrat	Red Fox	Vagrant Shrew	
Nashville Warbler	Red Squirrel	Vesper Sparrow	

		Washington Ground
Northern Alligator Lizard	Red-breasted Nuthatch	Squirrel
Northern Flicker	Red-breasted Sapsucker	Western Fence Lizard
Northern Flying Squirrel	Red-naped Sapsucker	Western Harvest Mouse
Northern Goshawk	Red-tailed Hawk	Western Kingbird
Northern Harrier	Ring-necked Pheasant	Western Meadowlark
Northern Pocket Gopher	Rock Wren	Western Pipistrelle
Northern Pygmy-owl	Rocky Mountain Elk	Western Rattlesnake
Northern River Otter	Rough-legged Hawk	Western Skink
Northern Rough-winged		Western Small-footed
Swallow	Rough-skinned Newt	Myotis
Northern Saw-whet Owl	Rubber Boa	Western Terrestrial Garter Snake
Northern Waterthrush	Ruby-crowned Kinglet	Western Toad
Olive-sided Flycatcher	Ruffed Grouse	
Orange-crowned Warbler	Rufous Hummingbird	White-crowned Sparrow White-tailed Jackrabbit
	Sagebrush Lizard	White-throated Swift
Osprey Pacific Charus (Tree) From	Sageorush Lizard Say's Phoebe	Yellow-bellied Marmot
Pacific Chorus (Tree) Frog Pacific Jumping Mouse	Say's Phoebe Sharp-shinned Hawk	Yuma Myotis
Pacific Jumping Mouse Pacific Water Shrew	Sharptail Snake	i uma iviyous
Painted Turtle	Sharptan Shake Short-horned Lizard	
Pallid Bat	Silver-haired Bat	
Pied-billed Grebe	Snowshoe Hare	
Pileated Woodpecker	Song Sparrow	
Pine Siskin	Spotted Bat	
Prairie Falcon	Spotted Owl	
Pygmy Nuthatch	Spotted Towhee	
Raccoon	Steller's Jay	
Racer	Striped Skunk	
Red Crossbill	Striped Whipsnake	
Red Fox	Tailed Frog	
Red-breasted Nuthatch	Three-toed Woodpecker	
Red-breasted Sapsucker	Tiger Salamander	
Red-eyed Vireo	Townsend's Big-eared Bat	
Red-naped Sapsucker	Townsend's Solitaire	
Red-tailed Hawk	Townsend's Warbler	
Red-winged Blackbird	Tree Swallow	
Ring-necked Duck	Trowbridge's Shrew	
Ring-necked Pheasant	Turkey Vulture	
Rocky Mountain Elk	Vagrant Shrew	
Rough-legged Hawk	Varied Thrush	
Rough-skinned Newt	Vaux's Swift	
Rubber Boa	Violet-green Swallow	
Ruby-crowned Kinglet	Warbling Vireo	
Ruffed Grouse	Western Bluebird	
Rufous Hummingbird	Western Fence Lizard	
Savannah Sparrow	Western Gray Squirrel	
Say's Phoebe	Western Jumping Mouse	
24, 51110000	cotorn samping mouse	<u> </u>

Sharptail Snake	Western Kingbird	
Sharp-tailed Grouse	Western Pipistrelle	
Shrew-mole	Western Rattlesnake	
Silver-haired Bat	Western Screech-owl	
Snowshoe Hare	Western Skink	
Showshoe Hare	Western Small-footed	
Solitary Sandpiper	Myotis	
Song Sparrow	Western Tanager	
	Western Terrestrial Garter	
Southern Red-backed Vole	Snake	
Spotted Bat	Western Toad	
Spotted Sandpiper	Western Wood-pewee	
Spotted Towhee	White-breasted Nuthatch	
Steller's Jay	White-crowned Sparrow	
	White-headed	
Striped Skunk	Woodpecker	
Swainson's Hawk	White-throated Swift	
Swainson's Thrush	Wild Turkey	
Tailed Frog	Williamson's Sapsucker	
Three-toed Woodpecker	Willow Flycatcher	
Tiger Salamander	Wilson's Warbler	
Townsend's Big-eared Bat	Yellow-bellied Marmot	
Townsend's Solitaire	Yellow-pine Chipmunk	
Townsend's Warbler	Yellow-rumped Warbler	
Tree Swallow	Yuma Myotis	
Trowbridge's Shrew		
Turkey Vulture		
Vagrant Shrew		
Vaux's Swift		
Veery		
Violet-green Swallow		
Virginia Opossum		
Warbling Vireo		
Water Shrew		
Water Vole		
Western Bluebird		
Western Harvest Mouse		
Western Jumping Mouse		
Western Pipistrelle		
Western Rattlesnake		
Western Screech-owl		
Western Small-footed		
Myotis		
Western Tanager		
Western Terrestrial Garter		
Snake		
Western Toad		
Western Wood-pewee		
White-breasted Nuthatch		

White-crowned Sparrow		
White-headed Woodpecker		
White-tailed Jackrabbit		
White-throated Swift		
Wild Turkey		
Williamson's Sapsucker		
Willow Flycatcher		
Wilson's Warbler		
Winter Wren		
Wood Duck		
Yellow Warbler		
Yellow-bellied Marmot		
Yellow-breasted Chat		
Yellow-pine Chipmunk		
Yellow-rumped Warbler	·	
Yuma Myotis	<u> </u>	

Species historically or currently present in Lake Chelan Basin

Species	Scientific name	Origin
Bull trout	Salvelinus confluentus	Native
Cutthroat trout	Oncorhynchus clarkii	Native
Rainbow trout	Oncorhynchus mykiss	Introduced in 1917
Lake trout	Salvelinus namaycush	Introduced in 1980
Brook trout	Salvelinus fontinalus	Introduced in 1934
Grayling	Thymallus arcticus	One-time plant introduced in 1945
Kokanee	Oncorhynchus nerka	Introduced in 1917
Chinook salmon	Oncorhynchus tshawytscha	Introduced in 1974
Mountain whitefish	Prosopium williamsoni	Native
Pygmy whitefish	Prosopium coulteri	Native
Burbot	Lota lota	Native
Smallmouth bass	Micropterus dolomieui	Introduced approx. 1990
Northern pikeminnow	Ptychocheilus oregonensis	Native
Slimy sculpin	Cottus cognatus	Native
Bridgelip sucker	Catostomus columbianus	Native
Chiselmouth	(Acrocheilus alutaceus)	Native
Lake chub	Couesius plumbeus	Presumed native
Largescale sucker	Catostomus macrocheilus	Presumed native
Longnose sucker	Catostomus catostomus	Presumed native
Peamouth chub	Mylocheilus caurinus	Presumed native
Redside shiner	Richardsonius balteatus	Presumed native
Threespine stickleback	Gasterosteus aculeatus	Presumed native
Carp	Cyprinus carpio	Introduced
Tench	Tinca tinca	Introduced

Species historically or currently present in Lake Chelan Basin

Species Scientific name		Origin
Bluegill	Lepomis macrochirus	Introduced

Sources: Brown, 1984; Hillman and Giorgi, 2000; DES, 2001a)

The Lake Chelan Water Quality Committee (LCWQC) coordinates with local agencies and the public to implement protective measures. The LCWQC is composed of five local agencies and the USFS, who jointly prepared a Lake Chelan Water Quality Plan (R. W. Beck, 1991) to provide a framework to maintain and monitor water quality (FERC, 2001).

Table 8. Environmental setting and general conditions at 8 focus tributaries and Chelan River

Study	Aspect	Regional	Valley Configuration	Riparian Habitat
Area Chelan River	NW	Setting Shrub steppe, open coniferous forest, cliffs, and urban areas.	Steep-walled gorge descends to a broad floodplain.	Sparse, deciduous trees and shrubs, mostly restricted to upper and lower reaches.
Mitchell Creek	SW	Shrub steppe with widely scattered conifers.	Narrow channel confined within a V-shaped valley with moderately steep slopes and some terraces.	Mostly narrow but typically dense deciduous tree and shrub habitats.
Grade Creek	SW	Shrub steppe with widely scattered conifers.	Narrow channel confined within a deeply incised canyon.	Sparse and narrow, limited to creek bank; mostly small deciduous trees.
Box Canyon	NE	Predominantly open coniferous forest with some shrub steppe.	Narrow channel with broad terraces confined within a steep-walled canyon.	Narrow riparian zone alongside incised creek bed; in places dense shrub habitats; deciduous forest occurs on terraces outside of riparian influence.
Big Creek	NE	Predominantly open coniferous forest with some shrub steppe.	Narrow channel confined within a narrow gorge; steep side slopes.	Narrow riparian zone along creek consisting mostly of mature western red cedar forest (small grove of deciduous trees at mouth).

Table 8. Environmental setting and general conditions at 8 focus tributaries and Chelan River

Study Area	Aspect	Regional Setting	Valley Configuration	Riparian Habitat
Bear Creek	NE	Predominantly coniferous and mixed forest.	Narrow channel confined within a U-shaped valley with moderately steep slopes and some terraces.	Narrow riparian zone along creek consisting of dense shrub and deciduous tree habitats; adjacent areas of mixed forest occur on higher ground that is probably outside of riparian influence.
Prince Creek	SW	Open coniferous forest.	Moderately wide channel; V-shaped valley terminates in a broad alluvial fan.	Narrow riparian zone alongside creek consisting mostly of shrub-sized cottonwoods and willows, and occasional larger trees.
Fish Creek	W	Coniferous forest.	Moderately wide channel; V-shaped valley terminates in a broad alluvial fan.	Narrow bands of mixed forest and shrub habitats along main channel and overflow channels.
Stehekin River	SE	Extensive coniferous and mixed forest, with scattered clearings; private residential developments and public recreation areas.	Wide alluvial channel within a broad U-shaped glacial trough with broad terraces.	Extensive riparian zone that includes stands of deciduous trees, scrub-shrub habitat, and emergent wetlands; riparian areas occur in bottomlands along the river channel, along a tributary stream (Devore Creek), and along a broad alluvial delta at the confluence with Lake Chelan.

Table 9. Mountain goat population, Lake Chelan area, 1989-1998

Year	Kids	Adults	Population	Estimate	
			1	K:100 ¹	
1989	29	112	141	26:100	
1990	18	98	116	18:100	
1991	27	155	185	17:100	
1992	16	88	104	18:100	
1993	13	92	105	14:100	
1994	25	98	123	26:100	
1995	12	109	121	11:100	
1996	7	47	70	15:100	
1997	18	105	124	17:100	
1998	17	88	105	19:100	
¹ K:100 = kids per 100 adults					

Table 10. Characteristics of tributaries to Lake Chelan (excluding Stehekin River and tributaries) that support adfluvial trout and kokanee

Stream location	Temperature	Flow	Width	Gradient	Accessible
Stream name	° C	(cfs)	(m)	(%)	length
					(m)
North shore,					
Chelan to Safety					
Harbor					
Mitchell	15.0	2.4	2.2	6.0	<600
Gold	15.0	1.2	2.3	10.0	300
Poison	15.0	1.7	2.4	9.0	60
Grade	13.9	5.9	3.2	10.0	400
Coyote	13.3	0.4	1.6	26.0	30
Safety Harbor	15.0	4.6	4.0	6.0	>300
South shore,					
Chelan to Big					
Creek					
First	10.6	7.4	3.4	5.0	>1,600
25-Mile	13.3	8.1	4.8	4.0	>3,200
Little Big	11.1	0.5	2.6	19.0	50
Big	11.1	5.2	3.7	8.0	75
North shore,					
Safety Harbor to					
Stehekin					
Lone Fir	13.3	0.9	2.1	23.0	26
Prince	12.2	9.5	5.6	10.0	>300
Cascade	11.1	0.6	1.8	12.0	150
Fish	11.1	7.1	5.4	8.0	>400
4-Mile	9.4	2.2	3.0	12.0	>300
South shore, Big					
Creek to Stehekin					
Deep Harbor	12.2	0.9	2.1	23.0	26
Graham Harbor	12.8	0.9	2.2	20.0	33
Pyramid	10.6	4.2	3.3	19.0	>300
Bear	8.9	8.6	3.2	11.0	100
Railroad	7.7	106.6	13.3	4.0	>1,600
Lightning	7.8	1.3	1.9	11.0	60
Riddle	11.1	3.3	3.4	13.0	>70
Castle	3.2	11.0			100