

APPENDIX K.

PRIORITY HABITATS AND SPECIES FOUND IN WDFW REGION 2

Criterion 1. State Listed and Candidate Species

State listed species are those native fish and wildlife species legally designated as Endangered (WAC 232-12-014), Threatened (WAC 232-12-011), or Sensitive (WAC 232-12-011). State Candidate species are those fish and wildlife species that will be reviewed by the department (POL-M-6001) for possible listing as Endangered, Threatened, or Sensitive according to the process and criteria defined in WAC-232-12-297.

Criterion 2. Vulnerable Aggregations

Vulnerable aggregations include those species or groups of animals susceptible to significant population declines, within a specific area or statewide, by virtue of their inclination to aggregate. Examples include heron rookeries, seabird concentrations, marine mammal haul-outs, shellfish beds, and fish spawning and rearing areas.

Criterion 3. Species of Recreational, Commercial, and/or Tribal Importance that are Vulnerable Native and non-native fish and wildlife species of recreational or commercial importance, and recognized species used for tribal ceremonial and subsistence purposes, that are vulnerable to habitat loss or degradation.

<u>INVERTEBRATES</u>	CRITERIA	STATUS/PRIORITY AREA
MOLLUSCS		
Gastropods (Gastropoda)		
Giant Columbia River limpet <i>Fisherola nuttalli</i>	1 2	State Listed or Candidate Species Any occurrence
Great Columbia River spire snail <i>Flumicola columbiana</i>	1 2	State Listed or Candidate Species Any occurrence
Bivalves (Bivalva)		
California floater <i>Anodonta californiensis</i>	1 2	State Listed or Candidate Species Any occurrence
ARTHROPODS		
Beetles (Coleoptera)		
Columbia River tiger beetle <i>Cicindela columbica</i>	1	State Listed or Candidate Species Any occurrence
Butterflies (Lepidoptera)		
Juniper hairstreak <i>Mitoura grynea barryi</i>	1	State Listed or Candidate Species Any occurrence
Silver-bordered fritillary <i>Boloria selene atrocostalis</i>	1	State Listed or Candidate Species Any occurrence
Yuma skipper <i>Ochlodes yuma</i>	1	State Listed or Candidate Species Any occurrence
VERTEBRATES		
FISH		
Sturgeon (Acipenseridae)		
White sturgeon <i>Acipenser transmontanus</i>	2 3	Food fish Any occurrence

Minnnows (Cyprinidae)		
Lake chub	1	State Listed or Candidate Species
<i>Couesius plumbeus</i>		Any occurrence
Leopard dace	1	State Listed or Candidate Species
<i>Rhinichthys falcatus</i>		Any occurrence
Umatilla dace	1	State Listed or Candidate Species
<i>Rhinichthys umatilla</i>		Any occurrence
Suckers (Catostomidae)		
Mountain sucker	1	State Listed or Candidate Species
<i>Catostomus platyrhynchus</i>		Any occurrence
Catfishes (Ictaluridae)		
Channel catfish	3	Game
<i>Ictalurus punctatus</i>		Any occurrence
Trout, Salmon, & Whitefishes (Salmonidae)		
Bull trout/Dolly Varden	1 2 3	State Listed or Candidate Species, Game
<i>Salvelinus confluentis/S. malma</i>		Any occurrence
Chinook salmon	1 2 3	State Listed or Candidate Species, Food fish
<i>Oncorhynchus tshawytscha</i>		Any occurrence
Coho salmon	2 3	Food fish
<i>Oncorhynchus kisutch</i>		Any occurrence
Kokanee	3	Game
<i>Oncorhynchus nerka</i>		Any occurrence
Pygmy whitefish	1 2	State Listed or Candidate Species
<i>Prosopium coulteri</i>		Any occurrence
Rainbow trout/Steelhead	1 3	State Listed or Candidate Species, Game
<i>Oncorhynchus mykiss</i>		Any occurrence
Sockeye salmon	1 2 3	State Listed or Candidate Species, Food fish
<i>Oncorhynchus nerka</i>		Any occurrence
Westslope cutthroat	3	Game
<i>Oncorhynchus clarki lewisi</i>		Any occurrence
Sunfishes (Centrarchidae)		
Largemouth bass	3	Game
<i>Micropterus salmoides</i>		Any occurrence
Smallmouth bass	3	Game
<i>Micropterus dolomieu</i>		Any occurrence
Perches (Percidae)		
Walleye	3	Game
<i>Stizostedion vitreum</i>		Any occurrence
Frogs and Toads (Anura)		
Columbia spotted frog	1	State Listed or Candidate Species
<i>Rana luteiventris</i>		Any occurrence
Northern leopard frog	1	State Listed or Candidate Species
<i>Rana pretiosa</i>		Any occurrence
Western toad	1	State Listed or Candidate Species
<i>Bufo boreas</i>		Any occurrence
Snakes (Serpentes)		
Sharptail snake	1	State Listed or Candidate Species
<i>Contia tenuis</i>		Any occurrence
Striped whipsnake	1	State Listed or Candidate Species
<i>Masticophis taeniatus</i>		Any occurrence

REPTILES**Lizards** (Squamata)

Sagebrush lizard	1	State Listed or Candidate Species
<i>Sceloporus graciosus</i>		Any occurrence

BIRDS**Marine birds**

American white pelican	1 2	State Listed or Candidate Species
<i>Pelecanus erythrorhynchos</i>		Breeding areas, regular and regular large concentrations

Common loon	1 2	State Listed or Candidate Species
<i>Gavia immer</i>		Breeding sites, regular and regular large concentrations

Western Grebe	1 2 S	State Listed or Candidate Species
<i>Aechmophorus occidentalis</i>		Breeding areas

Eastern Washington breeding concentrations of:	2	Breeding areas
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Grebes (Podicipedidae)		
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Cormorants (Phalacrocoracidae)		
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Eastern Washington breeding:	2	Breeding areas
Terns (Laridae)		

Hérons (Ardeidae)

Black-crowned night heron	2	Breeding areas
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<i>Nycticorax nycticorax</i>		
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Great blue heron	2	Breeding areas
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Waterfowl (Anseriformes)

Cavity-nesting ducks	3	Game
Wood duck (<i>Aix sponsa</i>)		Breeding areas

Barrow's goldeneye (<i>Bucephala islandica</i>)		
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Common goldeneye (<i>Bucephala clangula</i>)		
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Bufflehead (<i>Bucephala albeola</i>)		
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Hooded merganser (<i>Lophodytes cucullatus</i>)		
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Harlequin duck	2 3	Game
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<i>Histrionicus histrionicus</i>		Breeding areas, regular and regular large concentrations in saltwater
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Swans	2 3	Game
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Trumpeter swan		Regular and regular large concentrations
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<i>Cygnus buccinator</i>		
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Tundra swan		
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<i>Cygnus columbianus</i>		
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Waterfowl concentrations (Anatidae excluding Canada geese)	2 3	Game Significant breeding areas and in urban areas) regular large concentrations in winter
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Hawks, Falcons, Eagles (Falconiformes)

Bald eagle	1	State Listed or Candidate Species
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<i>Haliaeetus leucocephalus</i>		Breeding areas, communal roosts, regular and regular large concentrations, regularly-used perch trees in breeding areas
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Ferruginous hawk	1	State Listed or Candidate Species
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<i>Buteo regalis</i>		Breeding areas, including alternate nest sites. If breeding area is not known, approximate with a 7.0
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		km (4.35 mi) area around known nest sites, foraging areas
Golden eagle <i>Aquila chrysaetos</i>	1	State Listed or Candidate Species Breeding and foraging areas
Merlin <i>Falco columbarius</i>	1	State Listed or Candidate Species Breeding sites
Northern goshawk <i>Accipiter gentiles</i>	1	State Listed or Candidate Species Breeding areas, including alternate nest sites, post-fledging foraging areas
Peregrine falcon <i>Falco peregrinus</i>	1	State Listed or Candidate Species Breeding areas, regular occurrences, hack sites
Prairie falcon <i>Falco mexicanus</i>	3	Breeding areas
Upland Game Birds (Galliformes)		
Blue grouse <i>Dendragapus obscurus</i>	3	Game Breeding areas, regular concentrations
Chukar <i>Alectoris chukar</i>	3	Game Regular and regular large concentrations in WDFW's Primary Management Zones for chukar.
Ring-necked pheasant <i>Phasianus colchicus</i>	3	Game Self-sustaining birds observed in regular or regular large concentrations in WDFW's eastern Washington Primary Management Zone for pheasant.
Sage grouse <i>Centrocercus urophasianus</i>	1 3	State Listed or Candidate Species, Game Breeding areas, leks, regular and regular large concentrations
Sharp-tailed grouse <i>Tympanuchus phasianellus</i>	1 3	State Listed or Candidate Species, Game Breeding areas, leks, regular and regular large concentrations, critical wintering habitat (riparian zones)
Wild turkey <i>Meleagris gallopavo</i> .	3	Game Regular and regular large concentrations and roosts in WDFW's Primary Management Zones for wild turkeys
Cranes (Gruiformes)		
Sandhill crane <i>Grus Canadensis</i>	1	State Listed or Candidate Species Breeding areas, regular large concentrations, migration staging areas
Shorebirds (Charadriiformes)		
Eastern Washington breeding occurrences of: Phalaropes (Phalaropodidae) Stilts and avocets(Recurvirostridae)	2	Breeding areas
Cuckoos (Cuculiformes)		
Yellow-billed cuckoo <i>Coccyzus americanus</i>	1	State Listed or Candidate Species Any occurrence
Owls (Strigiformes)		
Burrowing owl <i>Athene cunicularia</i> .	1	State Listed or Candidate Species Breeding areas, foraging areas, regular concentrations

Flammulated owl <i>Otus flammeolus</i>	1	State Listed or Candidate Species Breeding sites, regular occurrences
Spotted owl <i>Strix occidentalis</i>	1	State Listed or Candidate Species Any occurrence
Swifts (Apodiformes)		
Vaux's swift <i>Chaetura vauxi</i>	1	State Listed or Candidate Species Breeding areas, communal roosts
Woodpeckers (Piciformes)		
Black-backed woodpecker <i>Picoides arcticus</i>	1	State Listed or Candidate Species Breeding areas and regular occurrences
Lewis' woodpecker <i>Melanerpes lewis</i>	1	State Listed or Candidate Species Breeding areas
Pileated woodpecker <i>Dryocopus pileatus</i>	1	State Listed or Candidate Species Breeding areas
White-headed woodpecker <i>Picoides albolarvatus</i>	1	State Listed or Candidate Species Breeding sites, regular occurrences
Perching Birds (Passeriformes)		
Loggerhead shrike <i>Lanius ludovicianus</i>	1	State Listed or Candidate Species Regular occurrences in breeding areas, regular and regular large concentrations
Sage sparrow <i>Amphispiza belli</i>	1	State Listed or Candidate Species Breeding areas, regular occurrences in suitable habitat during breeding season
Sage thrasher <i>Oreoscoptes montanus</i>	1	State Listed or Candidate Species Breeding areas, regular occurrences in suitable habitat during breeding season
MAMMALS		
Shrews (Insectivora)		
Merriam's shrew <i>Sorex merriami</i>	1	State Listed or Candidate Species Any occurrence
Bats (Chiroptera)		
Roosting concentrations of:	2	Regular large concentrations naturally occurring breeding areas and other communal roosts
Big brown bat (<i>Eptesicus fuscus</i>)		
Myotis bats (<i>Myotis</i> spp.)		
Pallid bat (<i>Antrozous pallidus</i>)		
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	1 2	State Listed or Candidate Species Any occurrence
Rabbits (Lagomorpha)		
Pygmy rabbit <i>Brachylagus idahoensis</i>	1	State Listed or Candidate Species Any occurrence
Black-tailed jackrabbit <i>Lepus californicus</i>	1 3	State Listed or Candidate Species, Game Any occurrence
White-tailed jackrabbit <i>Lepus townsendii</i>	1 3	State Listed or Candidate Species, Game Any occurrence
Rodents (Rodentia)		
Washington ground squirrel <i>Spermophilus washingtoni</i>	1	State Listed or Candidate Species Regular and regular large concentrations
Western gray squirrel <i>Sciurus griseus</i>	1	State Listed or Candidate Species Any occurrence
Terrestrial Carnivores (Carnivora)		

Fisher	1	State Listed or Candidate Species
<i>Martes pennanti</i>		Any occurrence
Gray wolf	1	State Listed or Candidate Species
<i>Canis lupus</i>		Any occurrence
Grizzly bear	1	State Listed or Candidate Species
<i>Ursus arctos</i>		Any occurrence
Lynx	1	State Listed or Candidate Species
<i>Lynx Canadensis</i>		Any occurrence
Marten	3	Game
<i>Martes Americana</i>		Regular occurrences
Mink	3	Game
<i>Mustela vison</i>		Regular occurrences
Wolverine	1	State Listed or Candidate Species
<i>Gulo gulo</i>		Any occurrence
Big Game Ungulates (Artiodactyla)		
Bighorn sheep	3	Game
<i>Ovis Canadensis</i>		Breeding areas, regular and regular large concentrations
Moose	3	Game
<i>Alces alces</i>		Regular concentrations
Mountain goat	3	Game
<i>Oreamnos americanus</i>		Breeding areas, regular concentrations
Northwest white-tailed deer	3	Game
<i>Odocoileus virginianus ochrourus</i>		Breeding areas, migration corridors, regular and regular large concentrations in winter
Rocky Mountain mule deer	3	Game
<i>Odocoileus hemionus hemionus</i>		Breeding areas, migration corridors, regular and regular large concentrations in winter

WDFW REGION 2 PRIORITY HABITATS

Aspen Stands

Pure or mixed stands of aspen greater than 0.8 ha (2 acres).

Criteria: High fish and wildlife species diversity, limited availability, high vulnerability to habitat alteration.

Caves

A naturally occurring cavity, recess, void, or system of interconnected passages (including associated dendritic tubes, cracks, and fissures) which occurs under the earth in soils, rock, ice, or other geological formations, and is large enough to contain a human. Mine shafts may mimic caves, and those abandoned mine shafts with actual or suspected occurrences of priority species should be treated in a manner similar to caves. A mine is a man-made excavation in the earth usually used to extract minerals.

Criteria: Comparatively high wildlife density, important wildlife breeding habitat and seasonal ranges, limited availability, vulnerability to human disturbance, dependent species.

Cliffs

Greater than 7.6 m (25 ft) high and occurring below 1524 m (5000 ft).

Criteria: Significant wildlife breeding habitat, limited availability, dependent species.

Freshwater Wetlands and Fresh Deepwater

Freshwater Wetlands: Lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. Wetlands must have one or more of the following attributes: the land supports, at least periodically, predominantly hydrophytic plants; substrate is predominantly undrained hydric soils; and/or the substrate is nonsoil and is saturated with water or covered by shallow water at some time during the growing season of each year.

Fresh Deepwater: Permanently flooded lands lying below the deepwater boundary of wetlands. Deepwater habitats include environments where surface water is permanent and often deep, so that water, rather than air, is the principal medium within which the dominant organisms live. The dominant plants are hydrophytes; however, the substrates are considered nonsoil because the water is too deep to support emergent vegetation. These habitats include all underwater structures and features (e.g., woody debris, rock piles, caverns).

Criteria: Comparatively high fish and wildlife density and species diversity, important fish and wildlife breeding habitat, important fish and wildlife seasonal ranges, limited availability, high vulnerability to habitat alteration

Instream

The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources.

Criteria: Comparatively high fish and wildlife density and species diversity, important fish and wildlife seasonal ranges, limited availability, high vulnerability to habitat alteration, dependent species.

Old-growth/Mature Forests

Old-growth east of Cascade crest: Stands are highly variable in tree species composition and structural characteristics due to the influence of fire, climate, and soils. In general, stands will be >150 years of age, with 25 trees/ha (10 trees/acre) > 53 cm (21 in) dbh, and 2.5-7.5 snags/ha (1 - 3 snags/acre) > 30-35 cm (12-14 in) diameter. Downed logs may vary from abundant to absent. Canopies may be single or multi-layered. Evidence of human caused alterations to the stand will be absent or so slight as to not affect the ecosystem's essential structures and functions. Mature forests: Stands with average tree diameters exceeding 53 cm (21 in) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80 - 200 years old west and 80 - 160 years old east of the Cascade crest.

Criteria: High fish and wildlife density, high fish and wildlife species diversity, important fish and wildlife breeding habitat, important fish and wildlife seasonal ranges, limited and declining availability, high vulnerability to habitat alteration.

Prairies and Steppe

Relatively undisturbed areas (as indicated by dominance of native plants) where grasses and/or forbs form the natural climax plant community.

Criteria: Comparatively high fish and wildlife density, high fish and wildlife species diversity, important fish and wildlife breeding habitat, important fish and wildlife seasonal ranges, limited and declining availability, high vulnerability to habitat alteration, unique and dependent species.

Riparian

The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other. In riparian systems, the vegetation, water tables, soils, microclimate, and wildlife inhabitants of terrestrial ecosystems are influenced by perennial or intermittent water. Simultaneously, the biological and physical properties of the aquatic ecosystems are influenced by adjacent vegetation, nutrient and sediment loading, terrestrial wildlife, as well as organic and inorganic debris. Riparian habitat encompasses the area beginning at the

ordinary high water mark and extends to that portion of the terrestrial landscape that is influenced by, or that directly influences, the aquatic ecosystem. Riparian habitat includes the entire extent of the floodplain and riparian areas of wetlands that are directly connected to stream courses.

Criteria: High fish and wildlife density, high fish and wildlife species diversity, important fish and wildlife breeding habitat, important wildlife seasonal ranges, important fish and wildlife movement corridors, high vulnerability to habitat alteration, unique or dependent species.

Rural Natural Open Space

A priority species resides within or is adjacent to the open space and uses it for breeding or regular feeding; and/or the open space functions as a corridor connecting other *priority habitats*, especially areas that would otherwise be isolated; and/or the open space is an isolated remnant of natural habitat larger than 4 ha (10 acres) and surrounded by agricultural developments. Local consideration may be given to open space areas smaller than 4 ha (10 acres).

Criteria: Comparatively high fish and wildlife density, high fish and wildlife species diversity, important fish and wildlife breeding habitat, important fish and wildlife seasonal ranges, important fish and wildlife movement corridors, high vulnerability to habitat alteration, unique species assemblages in agricultural areas.

Shrub-steppe

Large Tracts: Tracts of land >259 ha (640 ac) consisting of plant communities with one or more layers of perennial grasses and a conspicuous but discontinuous layer of shrubs. Large tracts of shrub-steppe contribute to the overall continuity of the habitat type throughout the region because they are relatively unfragmented, contain a substantial amount of interior habitat, and are in close proximity to other tracts of shrub-steppe. These tracts should contain a variety of habitat features (e.g., variety of topography, riparian areas, canyons, habitat edges, plant communities). Another important component is habitat quality based on the degree with which a tract resembles a site potential natural community, which may include factors such as soil condition and degree of erosion; and distribution, coverage, and vigor of native shrubs, forbs, grasses, and cryptogams.

Small Tracts: Tracts of land <259 ha (640 ac) with a habitat type consisting of plant communities with one or more layers of perennial grasses and a conspicuous but discontinuous layer of shrubs. Although smaller in size and possibly more isolated from other tracts of shrub-steppe these areas are still important to shrubsteppe obligate and other state-listed wildlife species. Also, important are the variety of habitat features and habitat quality aspects as listed above.

Criteria: Comparatively high fish and wildlife density and species diversity; important fish and wildlife breeding habitat and seasonal ranges, limited availability, high vulnerability to habitat alteration, unique and dependent species.

Snags and Logs

Snags and logs occur within a variety of habitat types that support trees. Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 51 cm (20 in) in western Washington and > 30 cm (12 in) in eastern Washington, and are > 2 m (6.5 ft) in height. Priority logs are > 30 cm (12 in) in diameter at the largest end, and > 6 m (20 ft) long. Abundant snags and logs can be found in old-growth and mature forests or unmanaged forests of any age, in damaged, burned, or diseased forests, and in riparian areas. Priority snag and log habitat includes individual snags and/or logs, or groups of snags and/or logs of exceptional value to wildlife due to their scarcity or location in a particular landscape. Areas with abundant, well distributed snags and logs are also considered priority snag and log habitat. Examples include large, sturdy snags adjacent to open water, remnant snags in developed or urbanized settings, and areas with a relatively high density of snags.

Criteria: Comparatively high fish and wildlife density and species diversity, important fish and wildlife breeding habitat and seasonal ranges, limited availability, high vulnerability to habitat alteration, large number of cavity dependent species.

Talus

Homogenous areas of rock rubble ranging in average size 0.15 - 2.0 m (0.5 - 6.5 ft), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.

Criteria: Limited availability, unique and dependent species, high vulnerability to habitat alteration.

Urban Natural Open Space

A priority species resides within or is adjacent to the open space and uses it for breeding and/or regular feeding; and/or the open space functions as a corridor connecting other *priority habitats*, especially those that would otherwise be isolated; and/or the open space is an isolated remnant of natural habitat larger than 4 ha (10 acres) and is surrounded by urban development. Local considerations may be given to open space areas smaller than 4 ha (10 acres).

Criteria: Comparatively high fish and wildlife density, high fish and wildlife species diversity, important fish and wildlife breeding habitat, important fish and wildlife movement corridors, limited availability, high vulnerability to habitat alteration.

**Washington Department of Fish and Wildlife State Species of Concern,
current through February 2004.**

Includes those species listed as State Endangered, State Threatened, State Sensitive, or State Candidate, as well as species listed or proposed for listing by the U.S. Fish and Wildlife Service or NOAA Fisheries

Status Codes:

FE: Federal Endangered
 FT: Federal Threatened
 FC: Federal Candidate
 FCo: Federal Species of Concern
 SE: State Endangered
 ST: State Threatened
 SC: State Candidate
 SS: State Sensitive

Mapping Criteria Codes:

(listed in order of decreasing specificity)
 B: Breeding Location (Nest or Den)
 CR: Communal Roost
 RC, RLC, RSC: Regular (Large or Small)
 Concentration
 RI: Regular Individual
 IO: Individual Occurrence
 (If a less specific criterion is listed, then the more
 specific criteria are implied as well)

Common Name	Scientific Name	Animal Type	Federal Status	State Status	Mapping Criteria
PACIFIC HERRING (CHERRY POINT)	<i>CLUPEA PALLASI</i>	Fish	FC	SC	none
PACIFIC HERRING (DISCOVERY BAY)	<i>CLUPEA PALLASI</i>	Fish	FC	SC	none
PACIFIC COD (S&C PUGET SOUND)	<i>GADUS MACROCEPHALUS</i>	Fish	none	SC	none
PACIFIC HAKE (C. PUGET SOUND)	<i>MERLUCCIUS PRODUCTUS</i>	Fish	FC	SC	none
WALLEYE POLLOCK (SO. PUGET SOUND)	<i>THERAGRA CHALCOGRAMMA</i>	Fish	none	SC	none
BROWN ROCKFISH	<i>SEBASTES AURICULATUS</i>	Fish	none	SC	none
COPPER ROCKFISH	<i>SEBASTES CAURINUS</i>	Fish	none	SC	none
GREENSTRIPED ROCKFISH	<i>SEBASTES ELONGATUS</i>	Fish	none	SC	none
WIDOW ROCKFISH	<i>SEBASTES ENTOMELAS</i>	Fish	none	SC	none
YELLOWTAIL ROCKFISH	<i>SEBASTES FLAVIDUS</i>	Fish	none	SC	none
QUILLBACK ROCKFISH	<i>SEBASTES MALIGER</i>	Fish	none	SC	none
BLACK ROCKFISH	<i>SEBASTES MELANOPS</i>	Fish	none	SC	none
CHINA ROCKFISH	<i>SEBASTES NEBULOSUS</i>	Fish	none	SC	none
TIGER ROCKFISH	<i>SEBASTES NIGROCINCTUS</i>	Fish	none	SC	none
BOCACCIO ROCKFISH	<i>SEBASTES PAUCISPINIS</i>	Fish	none	SC	none
CANARY ROCKFISH	<i>SEBASTES PINNIGER</i>	Fish	none	SC	none
REDSTRIPE ROCKFISH	<i>SEBASTES PRORIGER</i>	Fish	none	SC	none
YELLOWEYE ROCKFISH	<i>SEBASTES RUBERRIMUS</i>	Fish	none	SC	none
RIVER LAMPREY	<i>LAMPETRA AYRESI</i>	Fish	FCo	SC	none
CHUM SALMON (HOOD CANAL SU)	<i>ONCORHYNCHUS KETA</i>	Fish	FT	SC	none
CHUM SALMON (LOWER COLUMBIA)	<i>ONCORHYNCHUS KETA</i>	Fish	FT	SC	none
COHO SALMON (PUGET SOUND)	<i>ONCORHYNCHUS KISUTCH</i>	Fish	FC	none	none
COHO SALMON (LOWER COLUMBIA/SW)	<i>ONCORHYNCHUS KISUTCH</i>	Fish	FC	none	none

WA)					
SOCKEYE SALMON (SNAKE R.)	<i>ONCORHYNCHUS NERKA</i>	Fish	FE	SC	none
SOCKEYE SALMON (OZETTE LAKE)	<i>ONCORHYNCHUS NERKA</i>	Fish	FT	SC	none
CHINOOK SALMON (PUGET SOUND)	<i>ONCORHYNCHUS TSHAWYTSCHA</i>	Fish	FT	SC	none
CHINOOK SALMON (UPPER COLUMBIA SP)	<i>ONCORHYNCHUS TSHAWYTSCHA</i>	Fish	FE	SC	none
CHINOOK SALMON (LOWER COLUMBIA)	<i>ONCORHYNCHUS TSHAWYTSCHA</i>	Fish	FT	SC	none
CHINOOK SALMON (SNAKE R. SP/SU)	<i>ONCORHYNCHUS TSHAWYTSCHA</i>	Fish	FT	SC	none
CHINOOK SALMON (SNAKE R. FALL)	<i>ONCORHYNCHUS TSHAWYTSCHA</i>	Fish	FT	SC	none
STEELHEAD (SNAKE RIVER)	<i>ONCORHYNCHUS MYKISS</i>	Fish	FT	SC	none
STEELHEAD (MIDDLE COLUMBIA)	<i>ONCORHYNCHUS MYKISS</i>	Fish	FT	SC	none
STEELHEAD (UPPER COLUMBIA)	<i>ONCORHYNCHUS MYKISS</i>	Fish	FE	SC	none
STEELHEAD (LOWER COLUMBIA)	<i>ONCORHYNCHUS MYKISS</i>	Fish	FT	SC	none
BULL TROUT	<i>SALVELINUS CONFLUENTUS</i>	Fish	FT	SC	none
BULL TROUT (COLUMBIA BASIN)	<i>SALVELINUS CONFLUENTUS</i>	Fish	FT	SC	none
BULL TROUT (COASTAL/PUGET SOUND)	<i>SALVELINUS CONFLUENTUS</i>	Fish	FT	SC	none
EULACHON	<i>THALEICHTHYS PACIFICUS</i>	Fish	none	SC	none
OLYMPIC MUDMINNOW	<i>NOVUMBRA HUBBSI</i>	Fish	none	SS	IO
PYGMY WHITEFISH	<i>PROSOPIUM COULTERI</i>	Fish	none	SS	IO
LAKE CHUB	<i>COUESIUS PLUMBEUS</i>	Fish	none	SC	IO
LEOPARD DACE	<i>RHINICHTHYS FALCATUS</i>	Fish	none	SC	none
UMATILLA DACE	<i>RHINICHTHYS UMATILLA</i>	Fish	none	SC	none
MOUNTAIN SUCKER	<i>CATOSTOMUS PLATYRHYNCHUS</i>	Fish	none	SC	IO
MARGINED SCULPIN	<i>COTTUS MARGINATUS</i>	Fish	FCo	SS	IO
WESTERN TOAD	<i>BUFO BOREAS</i>	Amphibian	FCo	SC	none
NORTHERN LEOPARD FROG	<i>RANA PIPIENS</i>	Amphibian	FCo	SE	IO
OREGON SPOTTED FROG	<i>RANA PRETIOSA</i>	Amphibian	FC	SE	IO
COLUMBIA SPOTTED FROG	<i>RANA LUTEIVENTRIS</i>	Amphibian	FCo	SC	IO
CASCADE TORRENT SALAMANDER	<i>RHYACOTRITON CASCADAE</i>	Amphibian	none	SC	IO
COLUMBIA TORRENT SALAMANDER	<i>RHYACOTRITON KEZERI</i>	Amphibian	FCo	SC	IO
DUNN'S SALAMANDER	<i>PLETHODON DUNNI</i>	Amphibian	none	SC	IO
LARCH MOUNTAIN SALAMANDER	<i>PLETHODON LARSELLI</i>	Amphibian	FCo	SS	IO

VAN DYKE'S SALAMANDER	<i>PLETHODON VANDYKEI</i>	Amphibian	FCo	SC	IO
ROCKY MOUNTAIN TAILED FROG	<i>ASCAPHUS MONTANUS</i>	Amphibian	none	SC	IO
WESTERN POND TURTLE	<i>CLEMMYS MARMORATA</i>	Reptile	FCo	SE	IO
LEATHERBACK SEA TURTLE	<i>DERMOCHELYS CORIACEA</i>	Reptile	FE	SE	IO
GREEN SEA TURTLE	<i>CHELONIA MYDAS</i>	Reptile	FT	ST	IO
SAGEBRUSH LIZARD	<i>SCELOPORUS GRACIOSUS</i>	Reptile	FCo	SC	IO
LOGGERHEAD SEA TURTLE	<i>CARETTA CARETTA</i>	Reptile	FT	ST	IO
SHARPTAIL SNAKE	<i>CONTIA TENUIS</i>	Reptile	none	SC	IO
STRIPED WHIPSNAKE	<i>MASTICOPHIS TAENIATUS</i>	Reptile	none	SC	IO
CALIFORNIA MOUNTAIN KINGSSNAKE	<i>LAMPROPELTIS ZONATA</i>	Reptile	none	SC	IO
COMMON LOON	<i>GAVIA IMMER</i>	Bird	none	SS	B
WESTERN GREBE	<i>AECHMOPHORUS OCCIDENTALIS</i>	Bird	none	SC	B
SHORT-TAILED ALBATROSS	<i>PHOEBASTRIA ALBATRUS</i>	Bird	FE	SC	none
AMERICAN WHITE PELICAN	<i>PELECANUS ERYTHORHYNCHOS</i>	Bird	none	SE	B,RSC
BROWN PELICAN	<i>PELECANUS OCCIDENTALIS</i>	Bird	FE	SE	RSC
BRANDT'S CORMORANT	<i>PHALACROCORAX PENICILLATUS</i>	Bird	none	SC	B
ALEUTIAN CANADA GOOSE	<i>BRANTA CANADENSIS LEUCOPAREIA</i>	Bird	FCo	ST	RI
GOLDEN EAGLE	<i>AQUILA CHRYSAETOS</i>	Bird	none	SC	B
BALD EAGLE	<i>HALIAEETUS LEUCOCEPHALUS</i>	Bird	FT	ST	B,RSC,CR
NORTHERN GOSHAWK	<i>ACCIPITER GENTILIS</i>	Bird	FCo	SC	B
FERRUGINOUS HAWK	<i>BUTEO REGALIS</i>	Bird	FCo	ST	B
MERLIN	<i>FALCO COLUMBARIUS</i>	Bird	none	SC	B
PEREGRINE FALCON	<i>FALCO PEREGRINUS</i>	Bird	FCo	SS	B,RI
AMERICAN PEREGRINE FALCON	<i>FALCO PEREGRINUS ANATUM</i>	Bird	FCo	SS	B,RI
ARCTIC PEREGRINE FALCON	<i>FALCO PEREGRINUS TUNDRIUS</i>	Bird	FCo	SS	RI
PEALE'S PEREGRINE FALCON	<i>FALCO PEREGRINUS PEALEI</i>	Bird	FCo	SS	B,RI
SHARP-TAILED GROUSE	<i>TYMPANUCHUS PHASIANELLUS</i>	Bird	FCo	ST	B,RSC
SAGE-GROUSE	<i>CENTROCERCUS UROPHASIANUS</i>	Bird	FC	ST	B,RSC
SANDHILL CRANE	<i>GRUS CANADENSIS</i>	Bird	none	SE	B,RLC
SNOWY PLOVER	<i>CHARADRIUS ALEXANDRINUS</i>	Bird	FT	SE	B

UPLAND SANDPIPER	<i>BARTRAMIA LONGICAUDA</i>	Bird	none	SE	B,RI
COMMON MURRE	<i>URIA AALGE</i>	Bird	none	SC	none
MARbled MURRELET	<i>BRACHYRAMPHUS MARMORATUS</i>	Bird	FT	ST	B
CASSIN'S AUKLET	<i>PTYCHORAMPHUS ALEUTICUS</i>	Bird	FCo	SC	none
TUFTED PUFFIN	<i>FRATERCULA CIRRHATA</i>	Bird	FCo	SC	none
YELLOW-BILLED CUCKOO	<i>COCCYZUS AMERICANUS</i>	Bird	FC	SC	B,RI
BURROWING OWL	<i>ATHENE CUNICULARIA</i>	Bird	FCo	SC	B
FLAMMULATED OWL	<i>OTUS FLAMMEOLUS</i>	Bird	none	SC	B,RI
SPOTTED OWL	<i>STRIX OCCIDENTALIS</i>	Bird	FT	SE	IO
VAUX'S SWIFT	<i>CHAETURA VAUXI</i>	Bird	none	SC	B, CR
LEWIS' WOODPECKER	<i>MELANERPES LEWIS</i>	Bird	none	SC	B
PILEATED WOODPECKER	<i>DRYOCOPUS PILEATUS</i>	Bird	none	SC	B
WHITE-HEADED WOODPECKER	<i>PICOIDES ALBOLARVATUS</i>	Bird	none	SC	B,RI
BLACK-BACKED WOODPECKER	<i>PICOIDES ARCTICUS</i>	Bird	none	SC	B,RI
PURPLE MARTIN	<i>PROGNE SUBIS</i>	Bird	none	SC	B
SLENDER-BILLED WHITE-BREASTED NUTHATCH	<i>SITTA CAROLINENSIS ACULEATA</i>	Bird	FCo	SC	none
LOGGERHEAD SHRIKE	<i>LANIUS LUDOVICIANUS</i>	Bird	FCo	SC	B
OREGON VESPER SPARROW	<i>POOECETES GRAMINEUS AFFINIS</i>	Bird	FCo	SC	B
SAGE SPARROW	<i>AMPHISPIZA BELLII</i>	Bird	none	SC	B
SAGE THRASHER	<i>OREOSCOPTES MONTANUS</i>	Bird	none	SC	B
STREAKED HORNED LARK	<i>EREMOPHILA ALPESTRIS STRIGATA</i>	Bird	FC	SC	B
MERRIAM'S SHREW	<i>SOREX MERRIAMII</i>	Mammal	none	SC	IO
KEEN'S MYOTIS	<i>MYOTIS KEENII</i>	Mammal	none	SC	B,IO
TOWNSEND'S BIG-EARED BAT	<i>CORYHORHINUS TOWNSENDII</i>	Mammal	FCo	SC	B,CR
PACIFIC TOWNSEND'S BIG-EARED BAT	<i>CORYHORHINUS TOWNSENDII TOWNSENDII</i>	Mammal	FCo	SC	B,CR
PALLID TOWNSEND'S BIG-EARED BAT	<i>CORYHORHINUS TOWNSENDII PALLESCENS</i>	Mammal	FCo	SC	B,CR
PYGMY RABBIT	<i>BRACHYLAGUS IDAHOENSIS</i>	Mammal	FE	SE	IO
WHITE-TAILED JACK RABBIT	<i>LEPUS TOWNSENDII</i>	Mammal	none	SC	IO
BLACK-TAILED JACK RABBIT	<i>LEPUS CALIFORNICUS</i>	Mammal	none	SC	IO

WESTERN GRAY SQUIRREL	<i>SCIURUS GRISEUS</i>	Mammal	FCo	ST	IO
WASHINGTON GROUND SQUIRREL	<i>SPERMOPHILUS WASHINGTONI</i>	Mammal	FC	SC	IO
TOWNSEND'S GROUND SQUIRREL	<i>SPERMOPHILUS TOWNSENDII</i>	Mammal	none	SC	IO
BRUSH PRAIRIE POCKET GOPHER	<i>THOMOMYS TALPOIDES DOUGLASI</i>	Mammal	none	SC	IO
MAZAMA (WESTERN) POCKET GOPHER	<i>THOMOMYS MAZAMA</i>	Mammal	FC	SC	IO
SHELTON POCKET GOPHER	<i>THOMOMYS MAZAMA COUCHI</i>	Mammal	FC	SC	IO
CATHLAMET POCKET GOPHER	<i>THOMOMYS MAZAMA LOUIEI</i>	Mammal	FC	SC	IO
OLYMPIC POCKET GOPHER	<i>THOMOMYS MAZAMA MELANOPS</i>	Mammal	FC	SC	IO
YELM POCKET GOPHER	<i>THOMOMYS MAZAMA YELMENSIS</i>	Mammal	FC	SC	IO
GRAY-TAILED VOLE	<i>MICROTUS CANICAUDUS</i>	Mammal	none	SC	IO
GRAY WOLF	<i>CANIS LUPUS</i>	Mammal	FT	SE	IO
GRIZZLY BEAR	<i>URSUS ARCTOS</i>	Mammal	FT	SE	IO
FISHER	<i>MARTES PENNANTI</i>	Mammal	FCo	SE	IO
WOLVERINE	<i>GULO GULO</i>	Mammal	FCo	SC	IO
SEA OTTER	<i>ENHYDRA LUTRIS</i>	Mammal	FCo	SE	B,RI,RSC
SEA OTTER	<i>ENHYDRA LUTRIS LUTRIS</i>	Mammal	none	SE	B,RI,RSC
LYNX	<i>LYNX CANADENSIS</i>	Mammal	FT	ST	IO
GRAY WHALE	<i>ESCHRICHTIUS ROBUSTUS</i>	Mammal	none	SS	IO
SEI WHALE	<i>BALAENOPTERA BOREALIS</i>	Mammal	FE	SE	IO
FIN WHALE	<i>BALAENOPTERA PHYSALUS</i>	Mammal	FE	SE	IO
BLUE WHALE	<i>BALAENOPTERA MUSCULUS</i>	Mammal	FE	SE	IO
HUMPBACK WHALE	<i>MEGAPTERA NOVAEANGLIAE</i>	Mammal	FE	SE	IO
BLACK RIGHT WHALE	<i>BALAENA GLACIALIS</i>	Mammal	FE	SE	IO
KILLER WHALE	<i>ORCINUS ORCA</i>	Mammal	none	SC	IO
PACIFIC HARBOR PORPOISE	<i>PHOCOENA PHOCOENA</i>	Mammal	none	SC	RSC
SPERM WHALE	<i>PHYSETER MACROCEPHALUS</i>	Mammal	FE	SE	IO
COLUMBIAN WHITE-TAILED DEER	<i>ODOCOILEUS VIRGINIANUS LEUCURUS</i>	Mammal	FE	SE	IO
WOODLAND CARIBOU	<i>RANGIFER TARANDUS</i>	Mammal	FE	SE	IO
STELLER SEA LION	<i>EUMETOPIAS JUBATUS</i>	Mammal	FT	ST	RSC
GIANT COLUMBIA RIVER LIMPET	<i>FISHEROLA NUTTALLI</i>	Mollusk	none	SC	IO

GIANT COLUMBIA SPIRE SNAIL	<i>FLUMINICOLA COLUMBIANA</i>	Mollusk	FCo	SC	IO
NEWCOMB'S LITTORINE SNAIL	<i>ALGAMORDA SUBROTUNDATA</i>	Mollusk	FCo	SC	IO
CALIFORNIA FLOATER	<i>ANODONTA CALIFORNIENSIS</i>	Mollusk	FCo	SC	IO
NORTHERN ABALONE	<i>HALIOTIS KAMTSCHATKANA</i>	Mollusk	none	SC	none
OLYMPIA OYSTER	<i>OSTREA LURIDA</i>	Mollusk	none	SC	none
ISLAND MARBLE	<i>EUCHLOE AUSONIDES INSULANUS</i>	Butterfly	FCo	SC	IO
MAKAH (QUEEN CHARLOTTE) COPPER	<i>LYCAENA MARIPOSA CHARLOTTENSIS</i>	Butterfly	FCo	SC	IO
PUGET BLUE	<i>PLEBEJUS ICARIOIDES BLACKMOREI</i>	Butterfly	none	SC	IO
VALLEY SILVERSPOT	<i>SPEYERIA ZERENE BREMNERII</i>	Butterfly	FCo	SC	IO
GREAT ARCTIC	<i>OENEIS NEVADENSIS GIGAS</i>	Butterfly	none	SC	IO
OREGON SILVERSPOT BUTTERFLY	<i>SPEYERIA ZERENE HIPPOLYTA</i>	Butterfly	FT	SE	IO
MARDON SKIPPER	<i>POLITES MARDON</i>	Butterfly	FC	SE	IO
SHEPARD'S PARNASSIAN	<i>PARNASSIUS CLODIUS SHEPARDI</i>	Butterfly	none	SC	IO
SILVER-BORDERED FRITILLARY	<i>BOLORIA SELENE ATROCOSTALIS</i>	Butterfly	none	SC	IO
JOHNSON'S HAIRSTREAK	<i>MITOURA JOHNSONI</i>	Butterfly	none	SC	IO
JUNIPER HAIRSTREAK	<i>MITOURA GRYNIA BARRYI</i>	Butterfly	none	SC	IO
CHINQUAPIN HAIRSTREAK	<i>HABRODAIS GRUNUS HERRI</i>	Butterfly	none	SC	IO
YUMA SKIPPER	<i>OCHLODES YUMA</i>	Butterfly	none	SC	IO
TAYLOR'S (WHULGE) CHECKERSPOT	<i>EUPHYDRYAS EDITHA TAYLORI</i>	Butterfly	FC	SC	IO
COLUMBIA RIVER TIGER BEETLE	<i>CICINDELA COLUMBICA</i>	Beetle	none	SC	IO
LONG-HORNED LEAF BEETLE	<i>DONACIA IDOLA</i>	Beetle	none	SC	IO
HATCH'S CLICK BEETLE	<i>EANUS HATCHII</i>	Beetle	FCo	SC	IO
BELLER'S GROUND BEETLE	<i>AGONUM BELLERI</i>	Beetle	FCo	SC	IO
MANN'S MOLLUSK-EATING GROUND BEETLE	<i>SCAPHINOTUS MANNII</i>	Beetle	none	SC	IO

Retrieved May 10, 2004 online from: <http://wdfw.wa.gov/wlm/diversty/soc/soc.htm>

**U.S. Fish and Wildlife Service
Federal Species of Concern in Chelan County, Washington
(Obtained March 11, 2004)**

Animals

Black tern (*Chlidonias niger*)
California bighorn sheep (*Ovis canadensis californiana*)
California floater (mussel) (*Anodonta californiensis*)
Cascades frog (*Rana cascadae*)
Columbia pebblesnail (*Fluminicola (=Lithoglyphus) columbianus*) [great Columbia River spire snail]
Columbia spotted frog (*Rana luteiventris*) (= *Rana pretiosa*, eastern population)
Columbian sharp-tailed grouse (*Tympanuchus phasianellus columbianus*)
Ferruginous hawk (*Buteo regalis*)
Fringed myotis (bat) (*Myotis thysanodes*)
Harlequin duck (*Histrionicus histrionicus*)
Interior redband trout (*Oncorhynchus mykiss gairdneri*)
Little willow flycatcher (*Empidonax traillii brewsteri*)
Loggerhead shrike (*Lanius ludovicianus*)
Long-eared myotis (bat) (*Myotis evotis*)
Long-legged myotis (bat) (*Myotis volans*)
Northern goshawk (*Accipiter gentilis*)
Northern leopard frog (*Rana pipiens*)
Northern sagebrush lizard (*Sceloporus graciosus graciosus*)
Olive-sided flycatcher (*Contopus borealis*)
Pacific lamprey (*Lampetra tridentata*)
Pale Townsend's (= western) big-eared bat (*Corynorhinus (=Plecotus) townsendii pallescens*)
Small-footed myotis (bat) (*Myotis ciliolabrum*)
Tailed frog (*Ascaphus truei*)
Western burrowing owl (*Athene cunicularia hypugea*)
Western gray squirrel (*Sciurus griseus griseus*)
Westslope cutthroat trout (*Oncorhynchus clarki lewisi*)
Wolverine (*Gulo gulo luscus*)
Yuma myotis (bat) (*Myotis yumanensis*)

Plants

Chelan rockmat (*Petrophyton cinerascens*)
Clustered lady's-slipper (*Cypripedium fasciculatum*)
Seely's silene (*Silene seelyi*)
Thompson's clover (*Trifolium thompsonii*)
Two-spiked moonwort (*Botrychium paradoxum*)
Wenatchee larkspur (*Delphinium viridescens*)

Washington Natural Heritage Information System
List of Known Occurrences of Rare Plants in Chelan County, Washington - September 2004.

SCIENTIFIC NAME	COMMON NAME	STATE STATUS	FEDERAL STATUS	HISTORIC RECORD *
<i>Agoseris elata</i>	Tall agoseris	Sensitive		
<i>Anemone nuttalliana</i>	Pasqueflower	Threatened		
<i>Antennaria parvifolia</i>	Nuttall's pussy-toes	Sensitive		H
<i>Astragalus arrectus</i>	Palouse milk-vetch	Threatened		
<i>Astragalus sinuatus</i>	Whited's milk-vetch	Endangered	SC	
<i>Botrychium paradoxum</i>	Two-spiked moonwort	Threatened	SC	
<i>Carex comosa</i>	Bristly sedge	Sensitive		
<i>Carex magellanica</i> ssp <i>irrigua</i>	Poor sedge	Sensitive		
<i>Carex praeceptorum</i>	Teacher's sedge	Review 1		
<i>Carex proposita</i>	Smoky mountain sedge	Threatened		
<i>Centunculus minimus</i>	Chaffweed	Review 1		
<i>Chaenactis thompsonii</i>	Thompson's chaenactis	Sensitive		
<i>Cicuta bulbifera</i>	Bulb-bearing water-hemlock	Sensitive		
<i>Cryptantha spiculifera</i>	Snake river cryptantha	Sensitive		
<i>Cryptogramma stelleri</i>	Steller's rockbrake	Sensitive		
<i>Cypripedium fasciculatum</i>	Clustered lady's-slipper	Sensitive	SC	
<i>Delphinium viridescens</i>	Wenatchee larkspur	Threatened	SC	
<i>Erigeron salishii</i>	Salish fleabane	Sensitive		
<i>Eritrichium nanum</i> var <i>elongatum</i>	Pale alpine-forget-me-not	Sensitive		
<i>Geum rossii</i> var <i>depressum</i>	Ross' avens	Endangered		
<i>Githopsis specularioides</i>	Common blue-cup	Sensitive		
<i>Hackelia hispida</i> var <i>disjuncta</i>	Sagebrush stickseed	Sensitive		H
<i>Hackelia venusta</i>	Showy stickseed	Endangered	LE	
<i>Hierochloa odorata</i>	Common northern sweet grass	Review 1		
<i>Iliamna longisepala</i>	Longsepal globemallow	Sensitive		
<i>Loiseleuria procumbens</i>	Alpine azalea	Threatened		H
<i>Mimulus suksdorfii</i>	Suksdorf's monkey-flower	Sensitive		H
<i>Nicotiana attenuata</i>	Coyote tobacco	Sensitive		H
<i>Ophioglossum pusillum</i>	Adder's-tongue	Threatened		
<i>Pellaea brachyptera</i>	Sierra cliff-brake	Sensitive		
<i>Pellaea breweri</i>	Brewer's cliff-brake	Sensitive		
<i>Penstemon eriantherus</i> var <i>whitedii</i>	Fuzzytongue penstemon	Sensitive		
<i>Petrophyton cinerascens</i>	Chelan rockmat	Endangered	SC	
<i>Platanthera sparsiflora</i>	Canyon bog-orchid	Threatened		H
<i>Rotala ramosior</i>	Lowland toothcup	Threatened		H
<i>Salix tweedyi</i>	Tweedy's willow	Sensitive		
<i>Salix vestita</i> var <i>erecta</i>	Rock willow	Extirpated		H
<i>Saxifraga rivularis</i>	Pygmy saxifrage	Sensitive		
<i>Saxifragopsis fragarioides</i>	Strawberry saxifrage	Threatened		
<i>Scouleria marginata</i>	A moss	Threatened		H
<i>Sidalcea oregana</i> var <i>calva</i>	Wenatchee mountain checker-mallow	Endangered	LE	
<i>Silene sargentii</i>	Sargent's catchfly	Review 1		H
<i>Silene seelyi</i>	Seely's silene	Sensitive	SC	
<i>Spiranthes diluvialis</i>	Ute ladies' tresses	Endangered	LT	
<i>Spiranthes porrifolia</i>	Western ladies-tresses	Sensitive		
<i>Swertia perennis</i>	Swertia	Review 1		
<i>Trifolium thompsonii</i>	Thompson's clover	Threatened	SC	

Retrieved September 2004 (<http://www.dnr.wa.gov/nhp/refdesk/lists/plantsxco/chelan.html>)

Description of Codes

Historic Record.

H indicates most recent sighting in the county is before 1977.

State Status. State Status of the species is determined by the Washington Department of Fish and Wildlife. Factors considered include abundance, occurrence patterns, vulnerability, threats, existing protection, and taxonomic distinctness. Values include:

Endangered. In danger of becoming extinct or extirpated from Washington.

Threatened. Likely to become Endangered in Washington.

Sensitive. Vulnerable or declining and could become Endangered or Threatened in the state.

Review 1. Review Group 1. Of potential concern but needs more field work to assign another rank.

Federal Status. Federal Status under the U.S. Endangered Species Act (ESA) as published in the Federal Register:

LE = Listed Endangered. In danger of extinction.

LT = Listed Threatened. Likely to become endangered.

SC = Species of Concern. An unofficial status, the species appears to be in jeopardy, but insufficient information to support listing.

SENSITIVE PLANTS BY HABITAT
TAKEN FROM USFW ENTIAT ANALYSIS AREA V. 2.0,
APPENDIX E (USFS 1996)

Mixed Deciduous and Coniferous Forests

Botrychium lanceolatum
Botrychium lanceolatum
Botrychium montanum
Botrychium pinnatum
Cypripedium (calceolus var.) parviflorum (damp, mossy, mixed forest)
Montia diffusa

Moist to Dry Coniferous Forests

Antennaria parvifolia (open ponderosa pine)
Astragalus arrectus (open pine)
Botrychium lanceolatum
Botrychium lunaria
Botrychium minganense (often with western red cedar)
Botrychium montanum
Botrychium pinnatum
Cypridpedium fasciculatum
Iliamna longisepala (open ponderosa pine or mixed conifer)
Montia diffusa
Orobanche pinorum (parasitic on oceanspray)
Pellaea brachyptera
Pleurococcia fimbriolata (emerging from the duff in dense forest)
Sidalcea oregana var. calva
Trifolium thompsonii

Serpentine Soils

Chaenactis thompsonii
Geum rossii var. depressum

High Elevation Open Ridgetops

Anemone nuttalliana
Botrychium pinnatum

Rock Outcrops and Crevice/Cliffs/Ledges

Saxifraga debilis
Cryptogramm stelleri (shaded, moist and limestone cliffs)
Pellaea breweri
Petrophytum cinerascens

Gravel/Scree/Talus/Other Rocky Areas

Botrychium lanceolatum
Botrychium minganense
Carex proposita (often on talus)
Geum rossii var. depressum
Hackelia hispida var. disjuncta
Hackelia venusta (rocky slopes, sometimes with ponderosa pine)
Saxifraga debilis

Eritrichium nanum var. *elongatum*

Dry Meadows

Agoseris elata

Anemone nuttalliana

Astragalus arrectus

Castilleja cryptantha

Delphinium viridescens (moist meadow, drying in summer)

Githopsis specularoides (dry, open places)

Iliamna longisepala

Mimulus suksdorfii

Nicotiana attenuata

Oryzopsis hendersonii

Pedicularis rainierensis

Trifolium thompsonii (to lightly wooded)

Silene seelyi

WET MEADOWS/MARSHY AREAS/SEEPS/OTHER RIPARIAN AREAS

Botrychium lunaria

Botrychium pinnatum

Botrychium simplex

Carex buxbaumii (bogs, marshes, wet meadows)

Carex comosa (marshes, lake margins and ditches)

Carex macrochaeta (seeps and waterfall areas)

Carex paupercula (bogs and sedge meadows)

Carex saxatilis var. *major* (shallow water, bogs and sedge meadows)

Carex stylosa (marshes and streambanks)

Carex synchocephala (marshes, lake margins)

Castilleja cryptantha (subalpine meadows)

Cicuta bulbifera

Cypripedium (calceolus var.) parviflorum

Delphinium viridescens (meadow drying in summer)

Elocharis atropurpea

Epipactis gigantea (streambanks, lake margins, wet spots in dry places)

Iliamna longisepala (gravelly streambanks)

Loiseleuria procumbens

Pedicularis rainierensis

Plantanthera sparsiflora

Salix vestita var. *erecta* (high elevation)

Saxifraga debilis

Sidalcea oregana var. *calva* (streambanks, boggy meadows)

Spiranthes (romanzoffiana var.) porrifolia