Appendix G Species and Habitat Information

PLANT SPECIES

COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME
GRASS, FERNS, AND HERBA	ACEOUS		
Canadian thistle	Cirsium arvense	Pacific silverweed	Potentilla pacifica
Colonial bentgrass	Agrostis capillaris	Pickleweed	Salicornia virginica
Common duckweed	Lemna minor	Quackgrass	Agropyron repens
Common velvet grass	Holcus lanatus	Red fescue	Festuca rubra
Deer fern	Blechnum spicant	Redtop	Agrostis gigantea
Dewey sedge	Carex deweyana	Salt grass	Distichlis spicata
Field horsetail	Equisetum arvense	Salt-marsh sandspurry	Spergularia marina
Field mustard	Brassica campestris	Seaside arrowgrass	Triglochin maritima
Fireweed	Epilobium angustifolium	Slough sedge	Carex obnupta
Fowl mannagrass	Glyceria striata	Small bedstraw	Gallium trifidum
Foxglove	Digitalis purpurea	Soft rush	Juncus effusus
Giant horsetail	Equisetum telmateia	Spike rush	Eleocharis palustris
Grooved rush	Juncus patens	Stinky bob	Geranium robertianum
Jaumea	Jaumea carnosa	Tall fescue	Festuca arundinacea
Lady fern	Athyrium filix-femina	Tufted hairgrass	Deschampsia cespitosa
Lyngby's sedge	Carex lyngbyei	Watson's willow-herb	Epilobium watsonii
Orchard morning glory	Convolvulvus arvensis	Yarrow	Achillea millefolium
Pacific bleeding heart	Dicentra formosa		
SHRUBS			
American speedwell	Veronica americana	Oceanspray	Holodiscus discolor
Arrowleaf groundsel	Senecio triangularis	Pacific dogwood	Cornus nuttallii
Beaked hazelnut	Corylus cornuta	Pacific rhododendron	Rhododendron
Bracken fern	Pteridium aquilinum		macrophyllum
Cattail	Typha latifolia	Piggyback plant	Tolmiea menziesii
Claspleaf twisted-stalk	Streptopus amplexifolius	Prickly currant	Ribes lacustre
Common dandelion	Taraxacum officinale	Red clover	Trifolium pratense
Common mullein	Verbascum thapsus	Red elderberry	Sambucus racemosa
Common plantain	Plantago major	Red huckleberry	Vaccinium parvifolium
Common tansy	Tanacetum vulgare	Red-osier dogwood	Cornus sericea
Cooley's hedge-nettle	Stachys cooleyae	Reed canarygrass	Phalaris arundinacea
Creeping buttercup	Ranunculus repens	Salal	Gaultheria shallon
Curly dock	Rumex crispus	Salmonberry	Rubus spectabilis
Devil's club	Oplopanax horridus	Scotch broom	Cytisus scoparius
English ivy	Hedera helix	Sitka willow	Salix sitchensis
English laurel	Prunus laurocerasus	Skunk cabbage	Lysichiton americanus
English plantain	Plantago lanceolata	Snowberry	Symphoricarpos albus

Table G-1Plant Species Observed Within the Chehalis Basin

COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME
Evergreen blackberry	Rubus laciniatus	Stinging nettle	Urtica dioica
Evergreen huckleberry	Vaccinium ovatum	Stink currant	Ribes bracteosum
False-lily-of-the-valley	Maianthemum dilatatum	Sword fern	Polystichum munitum
Field mint	Mentha arvensis	Tall Oregon grape	Mahonia aquifolium
Himalayan blackberry	Rubus armeniacus	Trailing blackberry	Rubus ursinus
Holly	llex aquifolium	Twinberry	Lonicera involucrate
Indian plum	Oemleria cerasiformis	Twinflower	Linnaea borealis
Japanese knotweed	Polygonum cuspidatum	Vine maple	Acer circinatum
Kentucky bluegrass	Poa pratensis	Water-parsley	Oenanthe sarmentosa
Laurel	Kalmia spp.	Western azalea	Rhododendron occidentale
Licorice fern	Polypodium glycyrrhiza	Western thimbleberry	Rubus parviflorus
Low Oregon grape	Mahonia nervosa	Western trillium	Trillium ovatum
Marsh yellowcress	Rorippa palustris	White clover	Trifolium repens
Nootka rose	Rosa nutkana	Wood rose	Rosa gymnocarpa
TREES			
Austrian black pine	Pinus nigra	Oregon ash	Fraxinus latifolia
Big-leaf maple	Acer macrophyllum	Oregon white oak	Quercus garryana
Bitter cherry	Prunus emarginata	Pacific madrona	Arbutus menziesii
Black cottonwood	Populus trichocarpa	Pacific ninebark	Physocarpus capitatus
Black hawthorn	Crataegus douglasii	Pacific willow	Salix lasiandra
Cascara	Rhamnus purshiana	Paper birch	Betula papyrifera
Cherry	Prunus sp.	Quaking aspen	Populus tremuloides
Crabapple	Malus sp.	Red alder	Alnus rubra
Domestic apple	Malus domestica	Scouler willow	Salix scouleriana
Douglas fir	Pseudotsuga menziesii	Sitka spruce	Picea sitchensis
Grand fir	Abies grandis	Western hemlock	Tsuga heterophylla
Hooker's willow	Salix hookeriana	Western red cedar	Thuja plicata
Oak	Quercus sp.	Western white pine	Pinus monticola
AQUATICS			
Broadleaf arrowhead	Sagittaria latifolia	Olney's three square	Schoenoplectus
		bulrush	americanus
Broadleaf cattail	Typha latifolia	Small-fruited bulrush	Scirpus microcarpus
Common spikerush	Eleocharis palustris	Softstem bulrush	Schoenoplectus
			tabernaemontani
Creeping spikerush	Eleocharis palustris	Water buttercup	Ranunculus longirostris
Giant bur-reed	Sparganium eurycarpum	Watercress	Nasturtium officinale
Hardstem bulrush	Schoenoplectus acutus	Yellow water lily	Nuphar lutea
Narrowleaf bur-reed	Sparganium angustifolium		

VEGETATION AND LAND COVER

		•	
EIS HABITAT	USGS NATIONAL LAND	WDFW	RESERVOIR
TERMINOLOGY	COVER DATA EQUIVALENT	FLOODPLAIN SURVEY	FOOTPRINT STUDY
Agriculture	Cultivated crops,	Agriculture	Not applicable
	hay/pasture		
Bare ground	Barren land	Riverine bar	Disturbed/bare ground,
			rocky outcrop/cliff
Coniferous forest	Evergreen forest	Coniferous	Managed forest
			0 – 10 years, 10 – 20 years,
			20 – 60 years,
			60+ years
Deciduous forest	Deciduous forest	Riparian forest	Alder-dominated forest
Developed	Developed, high intensity,	Developed	Not applicable
	medium intensity, low		
	intensity, open space		
Herbaceous/grassland	Herbaceous	Not applicable	Not applicable
Instream	Open water	Instream, off channel	Low flow channel, riverine
Mixed forest	Mixed forest	Not applicable	Not applicable
Perennial snow/ice	Perennial snow/ice	Not applicable	Not applicable
Prairie oak	Not applicable	Prairie oak	Not applicable
Shrub/scrub	Shrub/scrub	Not applicable	Not applicable
Wetland	Emergent herbaceous	Not applicable	Not applicable
	wetlands, woody wetlands		

Table G-2

Standardized Habitat Type Terminology and Equivalent Terms of Habitat Mapping Resources

Notes:

EIS = Environmental Impact Statement USGS = U.S. Geological Survey

WDFW = Washington State Department of Fish and Wildlife

Federal and State Threatened and Endangered Plant Species That Occur in Lewis, Thurston, Grays Harbor, Mason, and Pacific Counties

		FEDERAL	STATE	LEWIS	THURSTON	GRAYS HARBOR	MASON	PACIFIC
COMMON NAME	SCIENTIFIC NAME	STATUS ¹	STATUS ²	COUNTY ^{1,2}				
FEDERAL THREATENED A	ND ENDANGERED PLANTS							
Golden paintbrush	Castilleja levisecta	Threatened	Endangered		•			
Kincaid's lupine	Lupinus sulphureus ssp. Kincaidii	Threatened	N/A	•				
Nelson's	Sidalcea nelsoniana	Threatened	Endangered					
checker-mallow				•				
Water howellia	Howellia aquatilis	Threatened	Threatened		•			
STATE THREATENED AND	ENDANGERED PLANTS							
Adder's-tongue	Ophioglossum pusillum		Threatened				•	
Bear's-foot sanicle	Sanicula arctopoides	Species of	Endangered			•		•
		Concern						•
Brewer's cinquefoil	Potentilla breweri		Threatened	•				
California swordfern	Polystichum		Threatened		•			
	californicum							
Candle-snuffer moss	Encalypta brevicollis		Endangered	•				
Coyotebush	Baccharis pilularis ssp.		Threatened					•
	consanguinea							
Dense sedge	Carex densa		Threatened	•	•			
Frigid shooting star	Dodecatheon	Species of	Endangered			•		•
	austrofrigidum	Concern						
Great polemonium	Polemonium carneum		Threatened	•	•	•		•
Hairy-stemmed	Sidalcea hirtipes		Threatened	•				
checker-mallow								
Hall's aster	Symphyotrichum hallii		Threatened		•			
Iwatsukiella moss	Iwatsukiella leucotricha		Endangered			•		•
Kincaid's sulfur lupine	Lupinus oreganus		Endangered	•				
Large-awned sedge	Carex macrochaeta		Threatened			•		•

		FEDERAL	STATE	LEWIS	THURSTON	GRAYS HARBOR	MASON	PACIFIC
	SCIENTIFIC NAME	STATUS	STATUS ⁻	COUNTY	COUNTY	COUNTY	COUNTY	COUNTY
			Threatened			•		
Ocean-bluff bluegrass	Pod unilateralis ssp.		Inreatened					•
Oregon coyote-thistle	Eryngium petiolatum		Threatened	•				
Oregon goldenaster	Heterotheca oregona		Threatened	•	•		•	
Pacific lanceleaved	Claytonia multiscapa		Threatened			•	•	
springbeauty	ssp. Pacifica						•	
Pacific pea	Lathyrus vestitus var.		Endangered					
	ochropetalus			•	•			
Pale larkspur	Delphinium	Species of	Endangered	•				
	leucophaeum	Concern		-				
Pine-foot	Pityopus californicus		Threatened		•			
Pink sand-verbena	Abronia umbellata var.	Species of	Endangered					
	acutalata	Concern						•
Queen of the forest	Filipendula occidentalis	Species of	Threatened					
		Concern						•
Quinault fawn-lily	Erythronium		Threatened					
	quinaultense					•		
Roll's golden log moss	Brotherella roellii		Threatened	•				•
Rose checker-mallow	Sidalcea virgata		Endangered		•			
Thin-leaved peavine	Lathyrus holochlorus		Endangered	•				
Water lobelia	Lobelia dortmanna		Threatened				•	
White meconella	Meconella oregana	Species of	Endangered					
		Concern		-				

Sources:

1. USFWS 2015

2. DNR 2015

Federal Plant Species Critical Habitats and Preferred Habitats That Occur in Lewis, Thurston, Grays Harbor, Mason, and Pacific Counties

					THURSTON	GRAYS	ΜΑΣΟΝ	PACIFIC
(SCIENTIFIC NAME)	AGENCY	STATUS ¹	PREFERRED HABITAT ²		COUNTY ¹	COUNTY ¹	COUNTY ¹	COUNTY ¹
FLOWERING PLANT	S							
Golden	USFWS	Threatened	Gravelly, glacial outwash prairie;					
paintbrush			upland prairie, flat grasslands,					
(Castilleja levisecta)			some characterized by mounded		•			
			topography and thickets of low					
			deciduous shrubs					
Kincaid's lupine	USFWS	Threatened	Native, dry, upland prairie with the					
(Lupinus			dominant species being red fescue					
sulphureus ssp.			(Festuca rubra) and/or Idaho	-				
Kincaidii)			fescue (Festuca idahoensis)					
Nelson's	USFWS	Threatened	Oregon ash (Fraxinus latifolia)					
checker-mallow			swales and meadows with wet					
(Sidalcea			depressions, or along streams;					
nelsoniana)			wetlands with remnant prairie					
			grasslands; primarily occurs in	•				
			open areas with little or no shade					
			and will not tolerate					
			encroachment of woody species					
Water howellia	USFWS	Threatened	Shallow water (1 to 2 meters) and					
(Howellia			on edges of deep ponds that are					
aquatilis)			partially surrounded by deciduous		•			
			trees such as black cottonwood					
			and aspen (<i>Populus</i> spp.)					

Notes:

USFWS = U.S. Fish and Wildlife Service

1. USFWS 2015

2. NatureServe 2015

State Rare Plant Species That Occur in Lewis, Thurston, Grays Harbor, Mason, and Pacific Counties

				THURSTON	GRAYS		DACIFIC
COMMON NAME	SCIENTIFIC NAME	STATE STATUS ¹		COUNTY ¹	COUNTY ¹		
Alaska plantain	Plantago macrocarpa	Sensitive			•		
Alice's fleabane	Erigeron aliceae	Sensitive	•		•	•	•
Aquatic racomitrium moss	Racomitrium aquaticum	Review – Potential Concern			•		
Blandow's helodium moss	Helodium blandowii	Review – Potential Concern	•				
Blue joint reedgrass	Calamagrostis canadensis	Review – Potential Concern	•				
Divert loof non-diversed	Val. Imperbis	Canaitius					
Biunt-lear pondweed	Potamogeton obtustjonus	Sensitive		•		•	
		Sensitive		•			•
Bolander's phacelia	Phacelia bolanderi	Review – Potential Concern					•
Branching montia	Montia diffusa	Sensitive	•		•		
Brewer's cliffbrake	Pellaea breweri	Sensitive				•	
Bristly sedge	Carex comosa	Sensitive		•			
Bulb-bearing	Cicuta bulbifera	Sensitive					
water-hemlock				•			
Buxbaumia moss	Buxbaumia viridis	Review – Potential Concern	•				
California compassplant	Wyethia angustifolia	Sensitive	•	•			
Canadian single-spike	Carex scirpoidea ssp.	Sensitive					
sedge	scirpoidea					•	
Canadian St. John's-wort	Hypericum majus	Sensitive		•			
Coiled sedge	Carex circinata	Sensitive			•		
Common bluecup	Githopsis specularioides	Sensitive	•	•		•	
Cooley's buttercup	Ranunculus cooleyae	Sensitive			•		
Entireleaf nitrogen moss	Tetraplodon mnioides	Review – Potential Concern				•	
Few-flowered sedge	Carex pauciflora	Sensitive				•	
Fringed synthyris	Synthyris schizantha	Review – Potential Concern			•		
Giant chain fern	Woodwardia fimbriata	Sensitive		•		•	

			I FW/IS	THURSTON	GRAYS	MASON	PACIFIC
COMMON NAME	SCIENTIFIC NAME	STATE STATUS ¹	COUNTY ¹	COUNTY ¹	COUNTY ¹	COUNTY ¹	COUNTY ¹
Golden chinquapin	Chrysolepis chrysophylla	Sensitive					
	var. chrysophylla					•	
Harford's ragwort	Packera bolanderi var.	Sensitive					•
Humpod bladdorwort	Iltricularia aibba	Roviow - Potential Concorn					
		Sensitive		•			
Loose-nowered bluegrass		Sensitive	•				•
	Schistostega pennata	Review – Potential Concern			•		
Mt. Rainier lousewort	Pedicularis rainierensis	Sensitive	•				
Northern	Parnassia palustris var. neo	Sensitive			•	•	•
grass-of-parnassus	gaea						
Nuttall's quillwort	Isoetes nuttallii	Sensitive	•	•			
Nuttall's waterweed	Elodea nuttallii	Review – Potential Concern		•			
Obtuse sedge	Carex obtusata	Sensitive				•	
Oregon yampah	Perideridia oregana	Sensitive		•			
Pink fawn-lily	Erythronium revolutum	Sensitive	•	•	•		•
Puget balsamroot	Balsamorhiza deltoidea	Review – Potential Concern	•	•			
Scouler's catchfly	Silene scouleri ssp. Scouleri	Sensitive	•	•			
Scurvygrass	Cochlearia groenlandica	Sensitive			•	•	
Small-flowered trillium	Trillium parviflorum	Sensitive	•	•			
Smooth hornwort	Ceratophyllum echinatum	Review – Potential Concern		•		•	
Swamp sandwort	Arenaria paludicola	Possibly Extinct or Extirpated			•		
Tall agoseris	Agoseris elata	Sensitive		•			
Tall bugbane	Cimicifuga elata	Sensitive	•	•	•		
Tetraphis moss	Tetraphis geniculata	Review – Potential Concern	•		•	•	
Texas toadflax	Nuttallanthus texanus	Sensitive		•			
Thompson's wandering daisy	Erigeron peregrinus var. th ompsonii	Sensitive			•		
Three-rib arrowgrass	Triglochin striata	Review – Potential Concern					•

COMMON NAME	SCIENTIFIC NAME	STATE STATUS ¹	LEWIS COUNTY ¹		GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Tolmie's goldenrod	Solidago missouriensis	Review – Potential Concern		•			
Triangular-lobed moonwort	Botrychium ascendens	Sensitive				•	
Vancouver ground-cone	Boschniakia hookeri	Review – Potential Concern				•	•
Western sweetvetch	Hedysarum occidentale var. occidentale	Sensitive				•	
Western wahoo	Euonymus occidentalis var. occidentalis	Sensitive	•	•			•
White-top aster	Sericocarpus rigidus	Sensitive		•	•		
Yellow-flowered sedge	Carex anthoxanthea	Sensitive			•		
Yerba de Selva	Whipplea modesta	Sensitive		•			

Source:

1. DNR 2015

ANIMAL SPECIES

Table G-6 Summary of Tier 1 Habitat Concerns for Salmonids in Selected Chehalis Basin Sub-basins

SUB-BASIN	HABITAT CONCERNS	SALMONID SPECIES PRESENT
BLACK RIVER		
Black River	Low dissolved oxygen, poor riparian conditions, low flows	Fall-run Chinook salmon, coho salmon, chum salmon, cutthroat trout, and winter-run steelhead
Porter Creek	Suspected lack of large woody material,	Fall-run Chinook salmon, spring-run
	crossings	trout and winter-run steelbead
LIPPER AND SOUTH FOR		trout, and winter run steemedd
Upper Chehalis River	Passage barriers from culvert and road	Fall-run Chinook salmon, spring-run
	crossings, erosion, sedimentation, poor	Chinook salmon, coho, cutthroat trout,
	riparian conditions	and winter-run steelhead
South Fork Chehalis	Poor riparian conditions, erosion,	Fall-run Chinook salmon, spring-run
River	sedimentation, passage barriers from	Chinook salmon, coho salmon, cutthroat
	culvert and road crossings	trout, and winter-run steelhead
Lake Creek	Narrow riparian buffers, sedimentation,	Coho salmon, cutthroat trout, and
	poor water quality	winter-run steelhead
Stillman Creek	Water quality, passage barriers from	Fall-run Chinook salmon, spring-run
	culvert and road crossings, erosion,	Chinook salmon, coho salmon, cutthroat
	sedimentation	trout, and winter-run steelhead
MAINSTEM CHEHALIS R	IVER	
Mainstem Chehalis	Loss of riparian canopy, water quality,	Fall-run Chinook salmon, spring-run
River	poor connection with floodplain, loss of	Chinook salmon, summer-run Chinook
	off-channel habitats	salmon, coho salmon, fall-run chum
		salmon, cutthroat trout, winter-run
		steelhead, summer-run steelhead, and
		bull trout
LOWER CHEHALIS RIVE		Fall www.Chinaak salman, saka salman
Cloqualium Creek	Passage barriers from culvert and road	Fail-run Chinook saimon, cono saimon,
	crossings, log booms and jams create	chum saimon, cutthroat trout, and
	conditions low flows	winter-run steemead
GRAYS HARBOR		
Gravs Harbor Estuary	Poor water quality reduced quantity of	Fall-run Chinook salmon spring-run
	estuarine habitat	Chinook salmon, summer-run Chinook
		salmon, coho salmon, fall-run chum
		salmon, cutthroat trout, winter-run
		steelhead, summer-run steelhead, and
		bull trout

SUB-BASIN	HABITAT CONCERNS	SALMONID SPECIES PRESENT
HOQUIAM RIVER		
Hoquiam River	Poor water quality, high water	Fall-run Chinook salmon, coho salmon,
	temperatures, passage barriers from	chum salmon, cutthroat trout, and
	culvert and road crossings, poor riparian	winter-run steelhead
	conditions	
HUMPTULIPS RIVER		
Humptulips River	High temperatures, poor water quality,	Fall-run Chinook salmon, spring-run
	passage barriers from culvert and road	Chinook salmon, coho salmon, chum
	crossings, erosion, sedimentation	salmon, cutthroat trout, winter-run
		steelhead, summer steelhead, and bull
		trout
MIDDLE CHEHALIS RIVE	R TRIBUTARIES	
Lincoln Creek	Sedimentation, poor riparian conditions,	Coho salmon, winter-run steelhead, and
	passage barriers from culvert and road	cutthroat trout
	crossings	
Independence Creek	Erosion, sedimentation, poor riparian	Coho salmon and cutthroat trout
	conditions, passage barriers from culvert	
	and road crossings	
Garrard Creek	Erosion, poor riparian condition, passage	Coho salmon, winter-run steelhead, and
	barriers from culvert and road crossings	cutthroat trout
Gaddis Creek	Erosion, incised channels, suspected	Coho salmon and cutthroat trout
	barriers to fish passage	
Rock/Williams Creek	Erosion, poor floodplain function,	Fall-run Chinook salmon, spring-run
	passage barriers from culvert and road	Chinook salmon, coho salmon, winter-run
	crossings	steelhead, and cutthroat trout
Bunker Creek	Sedimentation, disconnected floodplain,	Coho salmon, winter-run steelhead, and
	passage barriers from culvert and road	cutthroat trout
	crossings	
Scammon, Mill, and	Sedimentation, erosion, passage barriers	Coho salmon, winter-run steelhead, and
Stearns creeks	from culvert and road crossings, poor	cutthroat trout
	water quality	
NEWAUKUM RIVER		
Newaukum River	Poor riparian conditions, high instream	Spring-run Chinook salmon, fall-run
	temperatures, low base flows, passage	Chinook salmon, coho salmon, winter-run
	barriers from culvert and road crossings	steelhead, and cutthroat trout
	sedimentation	
Salzer Creek	Sedimentation, passage barriers from	Coho salmon and cutthroat trout
	culvert and road crossings, poor riparian	
	conditions	
Coal Creek	Poor riparian conditions, erosion,	Coho salmon and cutthroat trout
	sedimentation, suspected low flows	
Dillenbaugh Creek	Erosion, sedimentation, poor riparian	Coho salmon and cutthroat trout
	conditions, passage barriers from culvert	
	and road crossings	

SUB-BASIN	HABITAT CONCERNS	SALMONID SPECIES PRESENT
Berwick Creek	Poor riparian conditions, passage barriers	Coho salmon and cutthroat trout
	from culvert and road crossings	
China Creek	High instream temperatures, high	Coho salmon and cutthroat trout
	turbidity, low flows, sedimentation, poor	
	riparian conditions	
SATSOP RIVER		
Satsop River	Incised river channel, lack of channel	Fall-run Chinook salmon, summer-run
	migration, disconnection with floodplain,	Chinook salmon, coho salmon, cutthroat
	sedimentation, siltation, poor riparian	trout, winter-run steelhead, chum salmon,
	condition, passage barriers from culvert	and bull trout
	and road crossings, low flows,	
	sedimentation, siltation, high peak flows	
SKOOKUMCHUCK RIVE	R	
Skookumchuck River	Constrained river channel migration,	Coho salmon, cutthroat salmon,
	disconnection between river and	winter-run steelhead, spring-run Chinook
	off-channel habitats, flooding, poor	salmon, and fall-run Chinook salmon
	riparian conditions, passage barriers from	
	culvert and road crossings	
Scatter Creek	Poor riparian conditions, poor water	Fall-run Chinook salmon, coho salmon,
	quality, high instream temperatures, low	cutthroat trout, and winter-run steelhead
	flows	
SOUTH BAY RIVERS	l	
South Bay tributaries	Impassable road crossings, erosion,	Fall-run Chinook salmon, coho salmon,
	sedimentation, poor riparian conditions,	chum salmon, cutthroat trout, and
		winter-run steelhead
Wishkah River	Fine sediments, poor riparian conditions,	Fall-run Chinook salmon, coho salmon,
	passage barriers from culvert and road	chum salmon, cutthroat trout, winter-run
	crossings	steelhead, and bull trout
WYNOOCHEE RIVER		
Wynoochee River	Passage barriers from culvert and road	Fall-run Chinook salmon, coho salmon,
	crossings, poor riparian conditions, lack	chum salmon, cutthroat trout, winter-run
	of off-channel habitat, disconnection	steelhead, summer-run steelhead, and
	from floodplain, scouring	bull trout

Source: GHLE 2011

		STATE			
COMMON NAME	SCIENTIFIC NAME	STATUS	PRIORITY AREA ¹	HABITAT USE	
Black rockfish	Sebastes melanops	Candidate	Regular concentrations	Marine	
Bocaccio rockfish	Sebastes paucispinis	Candidate	Regular concentrations	Marine	
Brown rockfish	Sebastes auriculatus	Candidate	Regular concentrations	Marine	
Canary rockfish	Sebastes pinniger	Candidate	Regular concentrations	Marine	
China rockfish	Sebastes nebulosus	Candidate	Any occurrence	Marine	
Chinook salmon	Oncorhynchus	Candidate	Any occurrence	Anadromous	
	tshawytscha				
Chum salmon	Oncorhynchus keta	Candidate	Any occurrence	Anadromous	
Coastal/Puget Sound bull	Salvelinus confluentus	Candidate	Any occurrence	Anadromous	
trout					
Coastal resident/searun	Oncorhynchus clarki	Priority	Any occurrence	Freshwater	
cutthroat trout				or	
				anadromous	
Coho salmon	Oncorhynchus kisutch	Priority	Any occurrence	Anadromous	
Copper rockfish	Sebastes caurinus	Candidate	Regular concentrations	Marine	
English sole	Parophrys vetulus	Priority	Breeding site	Marine	
Eulachon	Thaleichthys pacificus	Candidate	Regular concentration	Anadromous	
Greenstriped rockfish	Sebastes elongatus	Candidate	Regular concentrations	Marine	
Kokanee	Oncorhynchus nerka	Priority	Any occurrence	Freshwater	
Lingcod	Ophiodon elongatus	Priority	Any occurrence	Marine	
Longfin smelt	Spirinchus thaleichthys	Priority	Breeding areas and	Freshwater	
			regular concentrations		
Pacific cod	Gadus macrocephalus	Candidate	Breeding areas and	Marine	
			regular concentrations		
Pacific hake	Merluccius productus	Candidate	Breeding areas and	Marine	
			regular concentrations		
Pacific herring	Clupea pallasi	Candidate	Breeding areas and	Marine	
			regular concentrations		
Pacific lamprey	Entosphenus tridentata	Priority	Any occurrence	Anadromous	
Pacific sand lance	Ammodytes hexapterus	Priority	Breeding areas and	Marine	
			regular concentrations		
Pink salmon	Oncorhynchus gorbuscha	Priority	Any occurrence	Anadromous	
Quillback rockfish	Sebastes maliger	Candidate	Regular concentrations	Marine	
Rainbow trout/steelhead/	Oncorhynchus mykiss	Candidate	Any occurrence	Freshwater or	
inland redband trout				anadromous	
Redstripe rockfish	Sebastes proriger	Candidate	Regular concentrations	Marine	
River lamprey	Lampetra ayresi	Candidate	Any occurrence	Anadromous	
Rock sole	Lepidopsetta bilineata	Priority	Breeding areas and	Marine	
			regular concentrations		
Sockeye salmon	Oncorhynchus nerka	Candidate	Any occurrence	Anadromous	

Table G-7
Fish Species Identified in the WDFW PHS List for Grays Harbor County

COMMON NAME	SCIENTIFIC NAME	STATE STATUS	PRIORITY AREA ¹	HABITAT USE
Surf smelt	Hypomesus pretiosus	Priority	Breeding areas and regular concentrations	Marine
Tiger rockfish	Sebastes nigrocinctus	Candidate	Any occurrence	Marine
Walleye pollock	Theragra chalcogramma	Candidate	Breeding areas and regular concentrations	Marine
White sturgeon	Acipenser transmontanus	Priority	Any occurrence	Anadromous
Widow rockfish	Sebastes entomelas	Candidate	Regular concentrations	Marine
Yelloweye rockfish	Sebastes ruberrimus	Candidate	Any occurrence	Marine
Yellowtail rockfish	Sebastes flavidus	Candidate	Regular concentrations	Marine

Notes:

1. Species are considered a priority only when they occur within known limiting habitats or priority areas. If limiting habitats are unknown, or species are rare, the priority area is described as "any occurrence."

PHS = Priority Habitats and Species WDFW = Washington State Department of Fish and Wildlife

Source: WDFW 2008

Salmon and Steelhead Species Life History Information

Chinook Salmon

Chehalis River fall-run Chinook salmon have a sub-yearling freshwater life history and typically out-migrate to marine habitats in their first spring. Adults typically return to spawn at 4 to 6 years of age, with the majority returning at age 5. During the period in which run size data were available (1970 to 2013), the total run size (before harvest) of fall-run Chinook salmon from the Chehalis Basin averaged 15,894, and ranged from a high run size of 39,698 in 1989 to a low of 5,124 in 1983. This species is heavily harvested in ocean fisheries, and hatchery production contributes significantly to annual returns (ASEPTC 2014).

A small number of summer-run Chinook salmon return to the Satsop River. The stock originates from the introduction of several early-timed hatchery stocks from the early 1950s into the 1970s. Satsop River summer-run Chinook salmon return to the river in late August—slightly earlier than fall-run stocks—however, the potential for hybridization exists. Between 1982 and 1990, the total number of natural spawners declined sharply from 750 to 37. From 1990 to 2014, the total number of natural spawners has averaged 47 fish, ranging from 0 in 2007 to 192 in 1996.

Chehalis spring-run Chinook salmon typically also have a sub-yearling freshwater life history and typically return to spawn at 3 to 6 years of age, with the majority returning at age 4. Compared to other species, spring-run Chinook salmon spend a relatively long period of time holding in the Chehalis River prior to spawning. Most enter the Chehalis River in the late winter and spring and spawn in the fall. For the period in which adult return data were available (1991 to 2013), the total run size of spring-run Chinook salmon to the Chehalis River averaged 2,448 fish, with a maximum run size of 5,153 in 2004 and a minimum of 724 in 2007. The number of spring-run Chinook salmon harvested annually is not well understood. Hatchery production does not contribute significantly to annual returns (ASEPTC 2014).

Chum Salmon

Chehalis River chum salmon spend very little time in freshwater and typically migrate to marine habitat as fry. The majority of adults return to spawn at 4 years of age. During the period in which return data are available (1969 to 2011), the estimated total run size for all Grays Harbor chum salmon averaged 38,948 fish, with a maximum run size of 137,075 in 1988 and a minimum of 8,879 in 2008.

Coho Salmon

Chehalis River coho salmon migrate to the Pacific Ocean as yearling smolts and return to spawn at 3 years of age. During the period in which run size data were available (1987 to 2013), the run of coho salmon (before harvest) averaged 60,000, with a maximum return size of 111,497 in 1991 and a minimum of 12,407 in 1994. Coho salmon are targeted in commercial and sport fisheries, and hatchery production contributes significantly to annual returns.

Coastal Cutthroat Trout

The abundance of cutthroat trout is not currently monitored in the Chehalis River; however, the Washington Department of Fish and Wildlife (2015) notes, "Weyerhaeuser has sampled more than eighty sites in the upper Chehalis Basin for species abundance. Cutthroat densities averaged between 0.22 and 0.23 fish per square meter, which is at or above levels observed in other watersheds in western Washington."

Steelhead

Winter-run steelhead typically migrate to the Pacific Ocean after spending 2 to 3 years rearing in freshwater habitats. As adults, most return to spawn at 3 or 4 years of age. During the period in which run size data were available (1983 to 2013), the average total run size (pre-harvest) was 10,417, with a maximum run size of 19,000 in 2004 and a minimum of 6,298 in 1998. Winter-run steelhead are regularly harvested in sport fisheries, but are not targeted in commercial fisheries. Hatchery production has contributed significantly to winter-run steelhead returns in the Chehalis Basin.

Other Native and Non-native Fish Species Found in Freshwater and Estuarine Habitats of the Chehalis Basin

	SCIENTIEIC NAME	FRESHWATER HABITAT	ESTUARINE HABITAT		SCIENTIEIC NAME	FRESHWATER HABITAT	ESTUARINE HABITAT
NATIVE SPECIES	SCIENTINE NAME			COMMON NAME	SCIENTINE NAME		
Arrow goby	Clevelandia ios		•	Pacific tomcod	Microgadus proximus		•
Bay goby	Lepidogobius Iepidus		•	Peamouth	Mylocheilus caurinus		•
Bay pipefish	Syngnathus griseolineatus		•	Pile perch	Rhacochilus vacca		•
Black rockfish	Sebastes melanops		•	Plainfin midshipman	Porichthys notatus		•
Buffalo sculpin	Enophrys bison		•	Prickly sculpin	Cottus asper	•	•
Cabezon	Scorpaenichthyes marmoratus		•	Redside shiner	Richardsonius balteatus		•
Coastrange sculpin	Cottus aleuticus	•	•	Reticulate sculpin	Cottus perplexus	•	•
Crescent gunnel	Pholis laeta		•	Riffle sculpin	Cottus gulosus	•	
English sole	Parophrys vetulus		•	River lamprey	Lampetra ayresii	•	•
Eulachon*	Thaleichthys pacificus	•	•	Rock greenling	Hexagrammos lagocephalus		•
Green sturgeon*	Acipenser medirostris	•	•	Rock sole	Lepidopsetta bilineata		•
High cockscomb	Anoplarchus purpurescens		•	Saddleback gunnel	Pholis ornata		•
Kelp greenling	Hexagrammos decagrammus		•	Sand sole	Psettichthys melanostictus		•
Largescale sucker	Catostomus macrocheilus	•	•	Sharpnose sculpin	Clinocottus acuticeps		•
Lingcod	Ophiodon elongatus	•		Shiner perch	Cymatogaster aggregata		•
Longnose dace	Rhinichthys cataractae	•		Silver surfperch	Hyperprosopum ellipticum		•
Northern anchovy	Engraulis mordax		•	Speckled dace	Rhinichthys osculus	•	•
Northern	Ptychocheilus	•	•	Starry flounder	Platichthys stellatus		•
pikeminnow	oregonensis						
Olympic mudminnow*	Novumbra hubbsi	•		Striped seaperch	Embiotoca lateralis		•

COMMON NAME	SCIENTIFIC NAME	FRESHWATER HABITAT	ESTUARINE HABITAT	COMMON NAME	SCIENTIFIC NAME	FRESHWATER HABITAT	ESTUARINE HABITAT
Pacific herring	Clupea harengus pallasi		•	Surf smelt	Hypomesus pretiosus		•
Pacific lamprey	Entosphenus			Three-spined	Gasterosteus		
	tridentatus	•	-	stickleback	aculeatus	•	•
Pacific Ocean perch	Sebastes alutus		•	Torrent sculpin	Cottus rhotheus	•	
Pacific sand lance	Ammodytes			Tube-snout	Aulorhyncus		
	hexapterus		-		flavidus		•
Pacific sardine	Sardinops sagax			Western brook	Lampetra		
				lamprey	richardsonii	•	
Pacific snake	Lumpenus sagitta			White sturgeon	Acipenser		
prickleback					transmontanus	•	
Pacific staghorn	Leptocottus		•	Whitefish	Prosopium	•	•
sculpin	armatus				williamsoni	•	•
NON-NATIVE SPECIES	S						
American shad	Alosa sapidissima	٠	•	Pumpkinseed	Lepomis gibbosus	•	•
Bluegill	Lepomis			Smallmouth bass	Micropterus		
	macrochirus				dolomieu	•	
Largemouth bass	Micropterus salmoides	•		Yellow perch	Perca flavescens	•	

Notes:

* = special status species

Sources: Monaco et al. 1990; Hiss and Knudsen 1993; Envirovison 2000; Wydoski and Whitney 2003; Hughes and Herlihy 2012; Sandell et al. 2015

State WDFW Priority Species and Preferred Habitats in Lewis, Thurston, Grays Harbor, Mason, and Pacific Counties and USFS Special Status Species

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
BIRDS		1						
Bald eagle (Haliaeetus leucocephalus)	Sensitive and USFS Special Status	Breeding areas, communal roosts, regular concentrations	Roost, nest habitat, and forage areas near lakes, reservoirs, rivers, and uneven-aged coniferous forest stands with readily available food source (fish and carrion)	•	•	•	•	•
Band-tailed pigeon (Columba fasciata)	Priority	Regular concentrations, occupied mineral sites	Mixed conifer and hardwood forests interspersed with younger wooded areas or small fields; Douglas fir, hemlock, red cedar, maple, spruce, willow, pine, cottonwood, and Oregon white oak	•	•	•	•	•
Black-backed woodpecker (Picoides arcticus)	Candidate	Breeding areas, regular occurrences	Associated with boreal and montane coniferous forests, especially in areas with standing dead trees such as burns, bogs, and windfalls	•				
Cavity-nesting ducks: Wood duck (<i>Aix sponsa</i>), Barrow's goldeneye (<i>Bucephala</i> <i>islandica</i>), Common goldeneye (<i>Bucephala</i> <i>clangula</i>), Bufflehead (<i>Bucephala albeola</i>), Hooded merganser (<i>Lophodytes cucullatus</i>)	Priority	Breeding areas	Nest primarily in late successional forests and riparian areas adjacent to low gradient rivers, sloughs, lakes, and beaver ponds; nest almost exclusively in tree cavities, which offer protection from weather and predators; snags and cavity trees near shallow wetlands are ideal for brood	•	•	•	•	•

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Common loon (Gavia	Sensitive	Breeding sites,	Breeding habitat includes usually clear lakes containing both					
immer)		migratory	shallow and deepwater areas; nest sites are found on small					
		stopovers,	islands, quiet backwaters, mainland shores, marshy portions of		•	•	•	
		regular	lakes; in winter and during migration, use inland lakes and rivers					
		concentrations	and marine and estuarine coastal waters					
Golden eagle (<i>Aquila</i>	Candidate	Breeding areas,	Open, arid plateaus deeply cut by streams and canyons; western					
chrysaetos)		foraging areas	shrub-steppe and grassland communities and transition zones					
			between shrub, grassland, and forested habitat; sometimes	•		•	•	
			found in mature and old-growth forests near the edges of	•			•	
			clearcuts in Western Washington; nests generally are located on					
			cliffs and are occasionally located in trees					
Great blue heron (Ardea	Priority	Breeding areas	Nesting habitat typically consists of mature forest; breeding					
herodias)			herons feed in wetland complexes, large rivers and creeks, and	•	•	•	•	
			small lakes; in fall/winter often prey on small mammals in fallow,				•	
			freshly plowed, or mowed fields and in grasslands habitats					
Harlequin duck (Histrionicus	Priority	Breeding areas,	Require fast-flowing water with loafing sites nearby; streams					
histrionicus)	and USFS	regular	usually have substrate that ranges from cobble to boulder with					
	Special	concentrations	adjacent vegetated banks; have been found more often at					
	Status	in saltwater	distances more than 50 meters from roads or trails and in	•	•	•	•	
			stream reaches with mature and old-growth forest cover;				•	
			stream alterations that would cause greater surface runoff,					
			changing water levels, or lower macroinvertebrate levels should					
			be avoided					

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Mountain quail (<i>Oreortyx</i> pictus)	Priority	Any occurrence	Mixed evergreen-deciduous forests, regenerating clearcuts, forest and meadow edges, chaparral slopes, shrub-steppe, and mixed forest/shrub areas; seek brush, hardwood, and conifer communities for nesting and brooding in cool, moist bottoms of draws and canyons	•	•	•	•	•
Northern goshawk (<i>Accipiter gentilis</i>)	Candidate	Breeding areas, including alternate nest sites, post-fledging foraging areas	All forested regions with more than 50% closed canopy with multiple layers	•		•	•	•
Oregon vesper sparrow (Pooecetes gramineus affinis)	Candidate	Any occurrence	Various open habitats with grass, including prairie, sagebrush steppe, meadows, pastures, and roadsides	•	•			
Peregrine falcon (<i>Falco peregrinus</i>)	Sensitive	Breeding areas, regular occurrences	Nest on cliffs, typically 45 meters or more in height; nest on offshore islands and ledges on vegetated slopes; wetlands, especially intertidal mudflats, estuaries, and coastal marshes, are key feeding areas in winter; maintain large trees and snags in these areas	•	•	•	•	•
Pileated woodpecker (Dryocopus pileatus)	Candidate	Breeding areas	Old-growth and mature forest	•	•	•	•	•

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Purple martin (Progne	Candidate	Breeding areas,	Insectivorous, colonial nesting swallows that nest in cavities over					
subis)	and USFS	including used	or near water/wetlands; artificial nest structures often used					
	Special	artificial nest		•	•	•	•	•
	Status	features, feeding						
		areas						
Sooty grouse (<i>Dendragapus</i>	Priority	Breeding areas,	During breeding season, can be found in forested habitats from					
fuliginosus)		regular	sea level to thousands of feet in elevation; lowland forest is the	•	•	•	•	•
		concentrations	preferred habitat for this species; in winter, found almost					
Trumpeter swan (Cyanus	Priority	Regular	Ponds lakes and marshes: breeding in areas of reeds sedges or					
buccinator)	THORY	concentrations	similar emergent vegetation, primarily in freshwater: wintering			•	•	•
			in open ponds, lakes, and sheltered bays and estuaries			-	-	
Vaux's swift (Chaetura	Candidate	Breeding areas,	Strongly associated with old-growth and mature forests; require					
vauxi)		communal	hollow chambers in large snags or live trees with broken tops for	•	•	•	•	•
		roosts	nesting and night roosting					
Waterfowl concentrations	Priority	Significant	None provided					
(Anatidae excluding Canada		breeding areas,						
geese in urban areas)		regular		•	•	•	•	
		concentrations						
		in winter						

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Western grebe	Candidate	Breeding areas,	Marshes, lakes, and bays; in migration and winter, also sheltered					
(Aechmophorus		regular	seacoasts or rivers; nests anchored to living vegetation on large					
occidentalis)		concentrations,	inland bodies of water very close to deep water to allow bird to					
		stopovers	swim submerged		•	•	•	•
		regular						
		occurrences in						
		winter						
Western Washington	Priority	Regular	Nest primarily in late successional forests and riparian areas					
non-breeding		concentrations	adjacent to low gradient rivers, sloughs, lakes, and beaver					
concentrations of: Barrow's			ponds; nest almost exclusively in tree cavities, which offer					
goldeneye (Bucephala			protection from weather and predators; snags and cavity trees	•	•	•	•	•
<i>islandica</i>), Bufflehead			near shallow wetlands are ideal for brooding					
(Bucephala albeola),								
Common goldeneye								
(Bucephala clangula)	Duiouitu	Deculer	Meet significant excess during asignation include Croug Usyber					
non brooding	Priority	Regular	during the nen-breeding period, most cherebird species in					
concentrations of ployers		concentrations	Washington aggregate in large single- or multi-species flocks at					
(<i>Charadriidae</i>), sandpipers			estuaries, beaches, wetlands, or other foraging and/or roosting	•	•	•	•	
(Scolopacidae), and			locations; flocks of black-bellied plovers (<i>Pluvialis sauatarola</i>)	-	-	-	-	
cormorants			occasionally occur at non-estuarine sites in Western Washington					
(Phalaropodidae)			(e.g., flooded fields in the Wynoochee and Chehalis river valleys)					

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Western Washington non-breeding	Priority	Regular concentrations	None provided					
concentrations of: loons								
(Podicinedidae), cormorants								
(<i>Phalacrocoracidae</i>), fulmar					•	•	•	•
and shearwaters								
(Procellariidae),								
storm-petrels								
(<i>Hydrobatidae</i>), alcids								
(AICIAAE) Wild turkey (Melegric	Priority	Regular	Depend on trees and grasses: trees provide food, ascano cover					
aallonavo	FILUTILY	concentrations	and roost sites, while grasses provide food for adults and an					
gunoputor		and roost in	environment that allows poults					
		WDFW's primary		•	•	•	•	•
		management						
		zones for wild						
		turkey						

COMMON NAME (<i>SCIENTIFIC NAME</i>) SEABIRDS*	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Brandt's cormorant	Candidate	Breeding areas,	Mainly inshore coastal zone, especially in areas having kelp					
(Phalacrocorax penicillatus)		regular	beds; also around some offshore islands; less commonly, inshore					
		concentrations	on brackish bays; in winter, mostly around sheltered inlets and			•		
			other quiet waters; typically nest on flat or gently sloping					
			surfaces on tops of rocky islands along coast; frequently nest					
			with other seabirds					
Brant (Branta bernicla)	Priority	Regular	In winter, primarily occur in marine waters that are marshy,					
		concentrations	along lagoons and estuaries and on shallow bays, often in areas					
		in foraging and	with eeigrass; nesting occurs mostly on coastal tundra, in low		•	•	•	•
		resting areas,	and barren terrain, on islands, deltas, lakes, and sandy areas					
		migratory	among puddles and shallow, and in vegetated uplands					
	Condidat-	stopovers						
Common murre (<i>Uria dalge</i>)	Candidate	Breeding areas,	Occupy peragic areas and rocky seacoasts when non-breeding;					
		regular	nest in the open of in crevices on broad and harrow cliff ledges,		•	•	•	
Tufted puffin (Frateraula	Candidata		On child tops, and on hat rocky low-lying islands					
sirchata	Candidate	breeding areas,	Filmanly pelagic during non-breeding season; nests on offshore					
		regular	isiands or along the coast, on slopes in ground burrows, under			•		
		concentrations	boulders, or under dense vegetation					

COMMON NAME (SCIENTIFIC NAME) Western Washington breeding concentrations of: Cormorants (Phalacrocoracidae), Storm-petrels (Hydrobatidae), Terns (Laridae), Alcids (Alcidae)	STATE STATUS ^{1, 2} Priority	PRIORITY AREA¹ Breeding areas	PRIORITY HABITAT AND SPECIES DESCRIPTION ³ None provided	LEWIS COUNTY ¹	THURSTON COUNTY ¹	● GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
INSECTS							1	
Beller's ground beetle (Agonum belleri)	Candidate and USFS Special Status	Any occurrence	Lowland sphagnum bogs associated with lakes below elevations of 1,000 feet		•			
Blue-gray taildropper (Prophysaon coeruleum)	Candidate and USFS Special Status	Any occurrence	Moist, coniferous, or mixed-wood forests of varying age classes	•				
Johnson's hairstreak (<i>Mitoura johnsoni</i>)	Candidate	Any occurrence	Old-growth coniferous forests; associated with conifer mistletoe (genus Arceuthobium)	•		•	•	
Leschi's millipede (<i>Leschius mcallisteri</i>)	Candidate	Any occurrence	None provided		•			
Pacific clubtail (<i>Gomphus</i> <i>kurilis</i>)	Candidate and USFS Special Status	Any occurrence	None provided		•			

COMMON NAME (<i>SCIENTIFIC NAME</i>)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Puget Blue (Plebejus	Candidate	Any occurrence	Forest clearings with a presence of lupine (Lupinus spp.), Puget					
icarioides blackmorei)	and USFS Special Status		lowland prairies and their forest edges, power line cuts, and unsprayed railroad rights-of-way		•	•	•	
Queen Charlotte's copper (Lycaena mariposa chaarlottensis)	Candidate and USFS Special	Any occurrence	None provided			•		•
Valley silverspet (Speverig	Sidius	A m. / 0.000 / 1000	Open provision protional pipe tundra subalajan glados and					
zerene bremnerii)	and USFS Special Status	Any occurrence	mid-elevation roadsides and clearings; only known host plant is the western blue violet (<i>Viola adunca</i>)	•	•			
MARINE MAMMALS*		1						1
California sea lion (Zalophus californianus)	Priority	Haul-out areas	Coastal waters; hauls out on rocky and sandy beaches, primarily on islands			•	•	•
Dall's porpoise (Phocoenoides dalli)	Priority	Regular concentrations in foraging areas and in migration routes	Sounds, inland passages, nearshore regions (usually in deep water), and the open sea			•	•	•
Gray whale (<i>Eschrichtius</i> robustus)	Sensitive	Any occurrence	Mostly seen in coastal and shallow shelf waters; young are born in lagoons and bays			•	•	•

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Harbor seal (<i>Phoca vitulina</i>)	Priority	Haul-out areas	Coastal waters to about 10 miles offshore, bays, harbors, coastal rivers, lakes; most common in protected areas such as bays or inlets: rest on isolated mudbanks, rock or sandy shores.		•	•	•	•
			intertidal ledges, reefs, islands, piers and log rafts, and on ice in some areas					
Pacific harbor porpoise	Candidate	Regular	Coastal waters and adjacent offshore shallows; also inhabit					
(Phocoena phocoena)		concentrations	inshore areas such as bays, channels, and rivers					
		in foraging areas			•	•	•	•
		and in migration						
		routes						
Cascade red fox (Vulnes	Candidate	Any occurrence	None provided					
cascadensis)				•				
Columbian black-tailed deer	Priority	Regular	Forage areas are less than 60% cover with understory of shrubs					
(Odocoileus hemionus		concentrations,	and vegetation; thermal cover of more than 70% canopy cover		•			
columbianus)		migration	of old-growth or late-stage stand rotation	•	•	-	•	
		corridors						

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Elk (Cervus elaphus)	Priority	Calving areas,	Forested areas in winter; summer can be moderate-sized					
		migration corridors, regular concentrations in winter and in foraging areas along coastal waters	patches of forage openings and cover areas	•	•	•	•	•
Marten (Martes americana)	Priority	Regular occurrence	Mixed-age forests of a variety of species composition	•	•	•	•	•
Mountain goat (Oreamnos	Priority	Breeding areas,	Alpine and subalpine habitat; steep grassy talus slopes, grassy					
americanus)		regular concentrations	ledges of cliffs, or alpine meadows, usually at timberline or above; may seek shelter and food in stands of spruce or hemlock in winter	•		•	•	
Olympic marmot (<i>Marmota olympus</i>)	Candidate	Any occurrence	Subalpine and alpine meadows and talus slopes near timberline; many colonies are located on south-facing slopes where food availability is probably greater because of earlier snowmelt			•	•	
Wolverine (<i>Gulo gulo</i>)	Candidate and USFS Special Status	Any occurrence	Large expanse of minimally disturbed forest	•				

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
AMPHIBIANS Cascade torrent salamander	Candidate	Any occurrence	Coniferous forests in small, cold mountain streams and spring					
(Rhyacotriton cascadae)	and USFS		seepages; larvae often occur under stones in shaded streams,					
	Special		and adults also inhabit these streams or streamsides in	•	•			
	Status		saturated moss-covered talus or under rocks in splash zone					
Dunn's salamander	Candidate	Any occurrence	Forested areas from sea level to 1,006 meters; both juveniles					
(Plethodon dunni)			and adults inhabit wet, rocky substrates that are heavily shaded,					
			including wet talus slopes, seeps, and stream borders; use	•		•		•
			downed logs and woody debris for cover and feeding; utilize					
			riparian areas more often than upslope areas, and are generally					
	c :::	•	considered to be riparian associates					
Larch mountain salamander	Sensitive	Any occurrence	innabit steep forests (e.g., Douglas fir and mixed hardwoods) or					
(Piethodon larselli)	and USFS		non-torested slopes associated with talus, scree, gravely solls,	•				
	Status		the rock and coil					
	วเสเนร		the fock and soll					

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Van Dyke's salamander (<i>Plethodon vandykei</i>)	Candidate and USFS Special Status	Any occurrence	Inhabit rocky seeps and streambanks or moist, north-facing, rocky habitats in forested areas from sea level to 1,097 meters; both juveniles and adults inhabit the splash zones of streams where they can be found under cobbles and woody debris and in cracks in rock faces; Van Dyke's salamanders have been found far from water on moss-covered talus slopes and fractured rock outcrops with northerly exposures; associated to some degree with riparian habitats in mature and old-growth coniferous forests where they are thought to use downed logs for cover and feeding	•	•	•	•	•
Western toad (Anaxyrus boreas)	Candidate	Any occurrence	Occur in a wide variety of habitats ranging from desert springs to mountain wetlands and various upland habitats around ponds, lakes, reservoirs, and slow-moving rivers and streams; for shelter, they dig burrows in loose soil or seclude themselves under logs or rocks; egg-laying sites include shallow areas of ponds, lakes, or reservoirs or pools of slow-moving streams	•	•	•	•	•
SHELLFISH*	Priority	Regular	None provided					
aiaanteus)	THORITY	concentrations				•		
Geoduck (Penopea abrupta)	Priority	Regular concentrations	Primarily in protected waters near the outside coast, found in fine to course substrates with minimal surge energy; live buried up to 1.3 meters below the surface of the sediment			•		

COMMON NAME (<i>SCIENTIFIC NAME</i>)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Native littleneck clam	Priority	Regular	Coarse, sandy-rock muds of estuaries and on the open coast					
(Protothaca staminea)		concentrations	where there is appropriate substrate, detritus, and protection from predators			•		
Olympia oyster (<i>Ostrea</i> conchaphila)	Candidate	Any occurrence	Usually attaches to living mollusks or the carapace of large crustaceans and is usually solitary while the lurida form is attached to dead shells or rocks and may form extensive reefs			•		
Pacific oyster (<i>Crassostrea</i> aigas)	Priority	Regular concentrations	None provided			•		
Manila clam (Venerupis philippinarum)	Priority	Regular concentrations	None provided			•		
Razor clam (<i>Siliqua patula</i>)	Priority	Regular concentrations	Stable, sandy, surf-swept beaches of the open coast and some coastal bays; sub-tidal and inter-tidal areas of the ocean			•		
Dungeness crab (<i>Cancer</i> magister)	Priority	Breeding areas, regular concentrations	Offshore coastal waters and in estuaries			•		
Pandalid shrimp (Pandalus	Priority	Regular	None provided					
spp.)		concentrations				•		
BATS	"							
Keen's long-eared bat (<i>Myotis evotis keenii</i>)	Candidate	Any occurrence	Associated with coastal forest habitat; roost in southwest-facing rock crevices, among geothermally heated rocks, in tree cavities, bark crevices, and buildings			•	•	

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Roosting concentrations of: Big-brown bat (<i>Eptesicus</i> <i>fuscus</i>), Myotis bats (<i>Myotis</i> spp.), Pallid bat (<i>Antrozous pallidus</i>)	Priority	Regular concentrations in naturally occurring breeding areas and other communal roosts	None provided	•	•	•	•	•
Townsend's big-eared bat (Corynorhinus townsendii)	Candidate and USFS Special Status	Any occurrence	Uses caves, mines, hollow trees, and built structures for roosting; westside lowland conifer-hardwood forest, ponderosa pine forest and woodlands, mixed highland conifer forest, eastside mixed conifer forest, shrub-steppe, and both east-side and west-side riparian wetlands	•	•	•	•	•
FISH								
Chinook salmon (<i>Oncorhynchus</i> <i>tshawytscha</i>)	Candidate	Any occurrence	Anadromous; spend 2 to 4 years, but up to 6 years, of their lives in the ocean; migrate to spawn in streams where they were hatched, up to several hundred kilometers; eggs are deposited in gravel bottoms of large streams and rivers	•	•	•	•	•

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Chum salmon (Oncorhynchus keta)	Candidate	Any occurrence	Anadromous; spend 2 to 7 years, usually 3 to 5 years, in the ocean; migrate to spawn in streams where they hatched; not far from saltwater (usually within 100 km); spawning occurs in	•	•	•	•	•
			gravel riffles in rivers and streams of various sizes					
Coastal/Puget Sound Bull Trout (Salvelinus confluentus)	Candidate	Any occurrence	Anadromous; bottoms of deep pools in cold rivers and large tributary streams, often in moderate to fast currents with temperatures of 45 to 50°F; also large cold-water lakes and reservoirs; migrant forms observed in estuaries	•	•	•	•	•
Coho salmon (Oncorhynchus kisutch)	Priority	Any occurrence	Anadromous; spend 2 (range of 1 to 3) years in the ocean; migrate to spawn in streams where they were hatched; in accessible coastal stream, generally in forested areas, usually at 6 to 12°C in loose coarse gravel	•	•	•	•	•
Eulachon (<i>Thaleichthys</i> pacificus)	Candidate	Regular concentration	Anadromous; nearshore ocean bottom, coastal inlets; spawns in coastal freshwater streams, seldom more than a few miles inland			•		
Southern green sturgeon	N/A	Any occurrence	Anadromous; coastal marine waters, estuaries, and lower reaches			•		
Pacific lamprey (Entosphenus tridentate)	Priority	Any occurrence	Anadromous; predatory phase of the life cycle occurs in the ocean, primarily near stream mouths in estuaries and in other					
			coastal areas; ammocoetes inhabit shallow backwater and eddy areas along edges of streams in mud, silt, and sand; adults spawn in rock-, sand-, or gravel-bottomed clear streams	•	•	•	•	•

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Pink salmon	Priority	Any occurrence	Anadromous; adults spend most of their lives at sea					
(Oncorhynchus gorbuscha)			(18 months); adults spawn in rivers and tributary streams; juveniles immediately move downstream after emergence to estuary where they can remain for several months before moving to sea in schools		•	•	•	•
River lamprey	Candidate	Any occurrence	Anadromous; ammocoetes burrow in sandy-muddy backwaters					
(Lampetra ayresi)			of streams; adults feed in estuaries and at sea and spawn over gravel riffles in clear streams	•	•	•	•	•
Sockeye salmon (Oncorhynchus nerka)	Candidate	Any occurrence	Anadromous; adults spend 2 to 3 years in the ocean, then move up coastal rivers and spawn in streams with gravel or sandy bottom; juveniles spend 1 to 2 years in lakes before migrating to the ocean		•	•	•	•
White sturgeon	Priority	Any occurrence	Anadromous; adults spawn over deep gravel riffles or in deep					
(Acipenser transmontanus)			holes with swift currents and rock bottoms; after spawning, adults migrate downstream to estuaries or saltwater	•	•	•	•	•
Kokanee	Priority	Any occurrence	Freshwater; do best in well-oxygenated water in large, cold					
(Oncorhynchus nerka)			mountain lakes; water temperatures above 60°F lead to juvenile					
			mortainy; young not often found in estuarine or nearshore waters after reaching the marine environment: adults snawn in			•	•	
			tributary streams of lakes in riffles over gravel substrate					

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Longfin smelt	Priority	Breeding areas	Freshwater or anadromous; found in a wide range of					
(Spirinchus thaleichthys)		and regular	temperature and salinity conditions in coastal waters near					
		concentrations	shore, bays, estuaries, and rivers; adults spawn in freshwater,		-	-	-	
			over sandy-gravel substrates, rocks, and aquatic plants;		•	•	•	
			anadromous populations spawn close to ocean where larvae are					
			transported downstream to brackish-water nursery areas after					
Ohmen in mendering and	Constitue	A	natching; lake populations spawn in tributaries					
	Sensitive	Any occurrence	Freshwater; found in weil-vegetated quiet waters with mud or					
(NOVUMBra NUBDSI)			dark bottoms, especially in marshy streams, bogs, and swamps					
			and also disturbed habitats such as roadside ditches and	•	•	•	•	
			eggs are individually adhesive on aquatic vegetation: do not					
			co-evist with introduced spiny-rayed fishes					
Coastal resident/searun	Priority	Any occurrence	Ereshwater or anadromous: requires small low-gradient coastal					
cutthroat trout	lineity		streams and estuarine habitat: adults spawn on clean small					
(Oncorhynchus clarki clarki)			gravel substrates: fry move to sea within their first year after	•	•	•	•	•
(,			hatching; in summer, most individuals in stream are of the					
			first-year age class, but a few may be older non-anadromous fish					
Rainbow trout/steelhead/	Candidate	Any occurrence	Freshwater or anadromous; anadromous populations occur in					
(Oncorhynchus mykiss)			coastal rivers; resident populations inhabit small headwater					
			streams with silt-free substrate; deep low-velocity pools are	•	•	•	•	
			important wintering habitats; adults spawn in gravel stream					
			nmes					

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Black rockfish	Candidate	Regular	Marine; usually found shallower than 150 meters in feeding					
(Sebastes melanops)		concentrations	aggregations; found in rugged, rocky habitat, above pinnacles, and/or in high current locations; observed schooling with other fish, including yellowtail, widow, or dusky rockfish			•		
Bocaccio rockfish	Candidate	Regular	Marine; adults often occur in rocky areas, at depths of 12 to					
(Sebastes paucispinis)		concentrations	481 meters; larvae and small juveniles are pelagic and commonly occur in upper 90 meters; juveniles sometimes form dense schools under drifting kelp mats			•		
Brown rockfish	Candidate	Regular	Marine; shallow coastal waters and bays, near shore to					
(Sebastes auriculatus)		concentrations	128 meters deep; adults commonly found near sea bottom over both high and low terrain, sometimes among eelgrass; pelagic juveniles are solitary and inhabit turbid waters			•		
Canary rockfish	Candidate	Regular	Marine; primarily inhabit waters 50 to 250 meters deep;					
(Sebastes pinniger)		concentrations	juveniles are associated with rocky reefs, kelp canopies, and					
			artificial structures such as piers and platforms; adults move into			•		
			deeper water as they increase in size; adults hover in loose groups just above the bottom					
China rockfish	Candidate	Any occurrence	Marine; juveniles have been observed in shallow coastal waters;					
(Sebastes nebulosus)			adults are solitary and territorial, preferring rocky outcrops with boulder fields and crevices			•		

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Copper rockfish	Candidate	Regular	Marine; newly spawned fish begin settling near the surface					
(Sebastes caurinus)		concentrations	around large algae canopies or eelgrass; juveniles move to					
			deeper water within a few months and are seen over sand, low			•		
			rocks, or reef-sand interface; adults are found over large rocks					
Fueltele en la	Dui suitu	Due adire a site	and boulder field or living in the dens of the giant Pacific octopus					
English sole	Priority	Breeding site	Marine; adults spawn over soft mud bottoms; juveniles depend					
(Purophrys vetulus)			heaving on intertious areas, estuaries, and shallow hearshore			•		
			coastal waters					
Greenstriped rockfish	Candidate	Regular	Marine; usually found between 100 to 250 meters; adults move					
(Sebastes elongatus)		concentrations	to deeper waters as they age; adults are solitary and are often			•		
			found resting on the seafloor and adjoining mussel mounds					
Lingcod	Priority	Any occurrence	Marine; adults spawn in well-oxygenated water in rocky marine					
(Ophiodon elongatus)			sub-tidal areas in crevices and overhangs; larvae are found in			•		
			near-surface marine waters and estuarine areas; adults are found					
			in shallow, intertidal areas of bays near algae and seagrass beds					
Pacific cod	Candidate	Breeding areas	Marine; cod are demersal and concentrate on the shelf edge and					
(Gadus macrocephalus)		and regular	upper slope (100 to 250 meters) in the winter and move to					
		concentrations	shallower waters (less than 100 meters) in the summer; adults			•		
			spawn in the sublittoral-bathyal zone (40 to 290 meters) hear					
			the bollom					

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Pacific hake	Candidate	Breeding areas	Marine; adults live in large schools overlying the continental					
(Merluccius productus)		and regular	shelf and slope; pelagic spawner, laying eggs several hundred					
		concentrations	miles offshore of southern California in the spring; migrate north			•		
			and inland during the summer and fall					
Pacific herring	Candidate	Breeding areas	Marine; live in coastal waters and often occur offshore; adults					
(Clupea pallasi)		and regular	spawn in bays and estuaries; eggs adhere to eelgrass, kelp, and					
		concentrations	other objects; juveniles congregate in bays, inlets, and channels			•		
			in the summer; juveniles move to deeper water in the fall and					
	D: 11		remain there until they mature (2 to 3 years)					
Pacific sand lance	Priority	Breeding areas	Marine; found in nearshore and intertidal marine environments;					
(Ammodytes nexapterus)		and regular	prefer well-lighted habitat at depths less than 50 meters;					
		concentrations	durrowing habitat is typically well-washed line safe and line			•		
			gravel, nee of mud, with a strong bottom current keeping					
			burrowing habitat					
Quillback rockfish	Candidate	Regular	Marine; found nearshore to 274 meters deep among rocks;					
(Sebastes maliger)		concentrations	juveniles found in shallower waters than adults and can be					
			found on bull kelp-covered rocky outcrops; adults tend to live in			•		
			deeper water as solitary individuals; prefer high-relief broken					
			rock with flat-bladed kelps					
Redstripe rockfish	Candidate	Regular	Marine; found between 150 to 275 meters; usually live over					
(Sebastes proriger)		concentrations	high-relief rugged bottoms and may form dense schools that rise			•		
			off the bottom during the day and disperse at night					

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	THURSTON COUNTY ¹	GRAYS HARBOR COUNTY ¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Rock sole	Priority	Breeding areas	Marine; inhabit gravel, sand, and muddy bottoms to 700 meters;					
(Lepidopsetta bilineata)		and regular concentrations	adults spawn on the bottom			•		
Surf smelt	Priority	Breeding areas	Marine; sometimes found in brackish water in midwater in deep					
(Hypomesus pretiosus)		and regular	scattering layers; adults spawn on sand and gravel beaches in			•		
		concentrations	light to moderate surf, during incoming or high tide					
Tiger rockfish	Candidate	Any occurrence	Marine; occur at water depths between 18 to 298 meters; adults					
(Sebastes nigrocinctus)			live on rock outcrops that have caves and crevices; rarely			•		
			observed in the open during the day					
Walleye pollock	Candidate	Breeding areas	Marine; occur in schools on or near the bottom; juveniles are					
(Theragra chalcogramma)		and regular	found above the thermocline; juveniles begin to settle at the					
		concentrations	bottom in the fall months after which they occupy					
			semi-demersal waters					
Widow rockfish	Candidate	Regular	Marine; adults most commonly found between 140 to					
(Sebastes entomelas)		concentrations	210 meters well above the bottom over boulders or other					
			high-relief bottoms; fish disperse into small schools off the			•		
			bottom during the day and then form dense schools near the					
			bottom at night					
Yelloweye rockfish	Candidate	Any occurrence	Marine; most commonly found between 91 to 180 meters;					
(Sebastes ruberrimus)			juveniles are associated with rocky reefs, kelp canopies, and					
			artificial structures such as piers and platforms in shallower			•		
			waters; adults move into deeper waters as they increase in size					
			and inhabit rocky bottoms and outcrops					

COMMON NAME (SCIENTIFIC NAME)	STATE STATUS ^{1, 2}	PRIORITY AREA ¹	PRIORITY HABITAT AND SPECIES DESCRIPTION ³	LEWIS COUNTY ¹	ΤΗURSTON COUNTY¹	GRAYS HARBOR COUNTY¹	MASON COUNTY ¹	PACIFIC COUNTY ¹
Yellowtail rockfish (Sebastes flavidus)	Candidate	Regular concentrations	Marine; only juveniles have been found in Puget Sound; older juveniles and adults are found over high relief such as boulders					
			and sheer rock walls; rarely seen over cobble-mud bottoms; form schools of thousands that swim well off the bottom			•		

Notes:

* = The only marine habitat in the Chehalis Basin is within Grays Harbor County

USFS = U.S. Forest Service

WDFW = Washington State Department of Fish and Wildlife

Sources:

1. WDFW 2008

2. USFS 2016

3. NatureServe 2015

Native and Non-native Shellfish Found in Freshwater and Estuarine Habitats in the Chehalis Basin

		FRESHWATER	ESTUARINE
COMMON NAME	SCIENTIFIC NAME	HABITAT	HABITAT
NATIVE SPECIES			
Dungeness crab	Cancer magister		•
Pandalid shrimp	Pandalus spp.		•
Butter clam	Saxidomus giganteus		•
Geoduck	Penopea abrupta		•
Native littleneck clam	Protothaca staminea		•
Olympia oyster	Ostrea lurida		•
Razor clam	Siliqua patula		•
Western floaters	Anodonta spp.	•	
Western pearlshell	Margaritifera falcate	•	
Western ridged mussel	Gonidea angulate	•	
Red urchin	Strongylocentrotus franciscanus		•
NON-NATIVE SPECIES			
Pacific oyster	Crassostrea gigas		•
Manila clam	Venerupis philippinarum		•

Sources: Herrmann 1972; Monaco et al. 1990; Waterstrat 2013; TWC et al. 2014

Table G	5-11
Wildlife Species Known or Likely	to Occur in the Chehalis Basin

COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME
AMPHIBIANS			
American bullfrog	Rana catesbeiana	Northwestern	Ambystoma gracile
		salamander	
Dunn's salamander*	Plethodon dunni	Pacific treefrog	Pseudacris regilla
Ensatina	Ensatina eschscholtzii	Northern red-legged frog	Rana aurora
Long-toed salamander	Ambystoma	Rough-skinned newt	Taricha granulosa
	macrodactylum		
Coastal giant	Dicamptodon tenebrosus	Van Dyke's salamander	Plethodon vandykei
salamander*			
Coastal tailed frog*	Ascaphus truei	Western red-backed	Plethodon vehiculum
		salamander	
Columbia torrent	Rhyacotriton kezeri	Western toad	Anaxyrus boreas
salamander*			
BIRDS			
American crow	Corvus brachyrhynchos	Killdeer	Charadrius vociferus
American goldfinch	Carduelis tristis	Mallard	Anas platyrhynchos
American robin	Turdus migratorius	Marsh wren	Cistothorus palustris
American widgeon	Mareca americana	Northern flicker	Colaptes auratus
Barn swallow	Hirundo rustica	Northern harrier	Circus cyaneus
Belted kingfisher	Ceryle alcyon	Olive-sided flycatcher	Contopus borealis
Bewick's wren	Thryomanes bewickii	Orange-crowned warbler	Vermivora celata
Black-capped chickadee	Parus atricapillus	Osprey	Pandion haliaetus
Black-headed grosbeak	Pheucticus	Pileated woodpecker	Dryocopus pileatus
	melanocephalus		
Black-throated gray warbler	Dendroica nigrescens	Purple finch	Carpodacus purpureus
Brown creeper	Certhia americana	Red breasted sapsucker	Sphyrapicus ruber
Brown-headed cowbird	Molothrus ater	Red-breasted nuthatch	Sitta canadensis
Bushtit	Psaltriparus minimus	Red-tailed hawk	Buteo jamaicensis
California quail	Callipepla californica	Red-winged blackbird	Agelaius phoeniceus
Canada goose	Branta canadensis	Rock dove	Columba livia
Chestnut-backed	Parus rufescens	Ruby-crowned kinglet	Regulus calendula
chickadee			
Common yellowthroat	Geothlypis trichas	Rufous hummingbird	Selasphorus rufus
Cooper's hawk	Accipiter cooperii	Savanah sparrow	Passerculus
			sandwichensis
Dark-eyed junco	Junco hyemalis	Solitary vireo	Vireo solitaius
Downy woodpecker	Picoides pubescens	Song sparrow	Melospiza melodia
European starling	Sturnus vulgaris	Spotted towhee	Pipilo erythrophthalmus
Gadwall	Anas strepera	Steller's jay	Cyanocitta stelleri
Golden-crowned kinglet	Regulus satrapa	Swainson's thrush	Catharus ustulatus
Gray catbird	Dumetella carolinensis	Tree swallow	Tachycineta bicolor

COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME
Great blue heron	Ardea herodias	Varied thrush	Ixoreus naevius
Great horned owl	Bubo virginianus	Violet-green swallow	Tachycineta thalassina
Green-winged teal	Anas crecca	White-breasted nuthatch	Sitta caralinensis
Hairy woodpecker	Picoides villosus	White-crowned sparrow	Zonotrichia leucophrys
House finch	Carpodacus mexicanus	Winter wren	Troglodytes
House sparrow	Passer domesticus	Yellow warbler	Dendroica petechia
House wren	Troglodytes aedon	Yellow-rumped warbler	Dendroica coronata
MAMMALS			
Bat	Myotis sp.	Opossum	Didelphis virginiana
Black-tailed deer	Odocoileus hemionus	Raccoon	Procyon lotor
	columbianus		
Black bear	Ursus americanus	River otter	Lontra canadensis
Coyote	Canis latrans	Roosevelt elk	Cervus elaphus roosevelti
Deer mouse	Peromyscus maniculatus	Shrew	Sorex sp.
Douglas' squirrel	Tamiasciurus douglasii	Shrew mole	Neurotrichus gibbsii
Eastern gray squirrel	Sciurus carolinensis	Southern red-backed vole	Clethrionomys gapperi
Least chipmunk	Tamias minimus	Striped skunk	Mephitis
American beaver	Aplodontia rufa	Townsend's mole	Scapanus townsendii
Long-tailed weasel	Mustela frenata	Townsend's vole	Microtus townsendii
Masked shrew	Sorex cinereus	Vole	Microtus sp.
Norway rat	Rattus norvegicus	Water shrew	Sorex palustris
REPTILES			
Common garter snake	Thamnophis sirtalis	Northwestern garter	Thamnophis ordinoides
		snake	
Northern alligator lizard	Gerrhonotus coeruleus	Western terrestrial garter	Thamnophis elegans
		snake	

* = Special Status Species

Federal and State Threatened and Endangered Species and Preferred Habitats That Occur in Lewis, Thurston, Grays Harbor, Mason, and Pacific Counties and USFS Special Status Species

				COUNTIES ^{1, 2, 3}		1, 2, 3		
COMMON NAME (SCIENTIFIC NAME)	FEDERAL STATUS (AGENCY) ^{1,2}	STATE STATUS ^{3,4}	PREFERRED HABITAT ⁵	LEWIS	THURSTON	GRAYS HARBOR	MASON	PACIFIC
AMPHIBIANS								
Oregon spotted frog (<i>Rana pretiosa</i>)	Threatened (USFWS)	Endangered and USFS Special Status	Highly aquatic, inhabiting marshes and marshy edges of ponds, streams, and lakes	•	•	•	•	
BIRDS								
Northern spotted owl (<i>Strix</i> occidentalis caurina)	Threatened (USFWS)	Endangered	Mature, old-growth forests (nesting, roosting, foraging); second-growth used for dispersal	•	•	•	•	•
Streaked horned lark (Eremophila alprestris strigata)	Threatened (USFWS)	Endangered and USFS Special Status	Large expanses of bare or thinly vegetated land, including fields, prairies, dunes, upper beaches, airports, and similar areas with low/sparse grassy vegetation		•	•	•	•
Western snowy plover (Charadrius alexandrinus nivosus)	Threatened (USFWS)	Endangered	Barren to sparsely vegetated sand beaches, dry salt flats in lagoons, dredge spoils deposited on beach or dune habitat, levees and flats at salt-evaporation ponds, river bars, along alkaline or saline lakes, reservoirs, and ponds			•		•
Yellow-billed cuckoo (Coccyzus americanus)	Threatened (Western U.S. Distinct Population Segment [USFWS])	Candidate and USFS Special Status	Breed in open woodlands, parks, deciduous, riparian woodlands; nest in tall cottonwood and willow riparian woodlands, moist thickets, orchards, or overgrown pasture	•	•	•	•	•

				COUNTIES ^{1, 2, 3}				
COMMON NAME (SCIENTIFIC NAME)	FEDERAL STATUS (AGENCY) ^{1,2}	STATE STATUS ^{3,4}	PREFERRED HABITAT ⁵	LEWIS	THURSTON	GRAYS HARBOR	MASON	PACIFIC
SEABIRDS	1	1			1			
Brown pelican (Pelecanus occidentalis)	Recovery (USFWS)	Endangered	Inhabit mainly coastal waters and are rarely seen inland or far out at sea; feed mostly in shallow estuarine waters; make extensive use of sand pits, offshore sand bars, and islets for nocturnal roosting and daily loafing; dry roosting sites are essential			•		
Marbled murrelet (Brachyramphus marmoratus)	Threatened (USFWS)	Threatened	Mature, old-growth forests (nesting, roosting)	•	•	•	•	•
Short-tailed albatross (Phoebastria albatrus)	Endangered (USFWS)	Candidate	Occurs in regions of high marine productivity; nests on the ground on small oceanic islands or on volcanic ash slopes with sparse vegetation; pairs tend to nest in the same site during successive nesting attempts			•		
INSECTS		1		1	1			
Mardon skipper (Polites mardon)	Species of Concern (USFWS)	Endangered and USFS Special Status	Primarily inhabits open grasslands on glacial outwash prairies as well as openings and ridgetops within ponderosa pine (<i>Pinus ponderosa</i>) woodlands; Idaho fescue (<i>Festuca</i> <i>idahoensis</i>) is the suspected host plant		•			
Oregon silverspot (Speyeria zerene hyppolyta)	Threatened (USFWS)	Endangered	Occurs in coastal salt spray meadows, stabilized dunes, and montane meadows; primary larval host plant is the hookedspur violet (<i>Viola adunca</i>); important adult nectar plants include common yarrow (<i>Achillea millefolium</i>), western pearly everlasting (<i>Anaphalis margaritacea</i>), Canada goldenrod (<i>Solidago canadensis</i>), and Douglas aster (<i>Symphyotrichum subspicatus</i> var. <i>subspicatus</i>)					•

				COUNTIES ^{1,}		1, 2, 3	, 2, 3		
COMMON NAME (SCIENTIFIC NAME)	FEDERAL STATUS (AGENCY) ^{1,2}	STATE STATUS ^{3,4}	PREFERRED HABITAT⁵	LEWIS	THURSTON	GRAYS HARBOR	MASON	PACIFIC	
Taylor's checkerspot (Euphydryas editha taylori)	Endangered (USFWS)	Endangered and USFS Special Status	Prairies with a dominance of original vegetation; host plants include the native seaside plantain (<i>Plantago maritima macrocarpa</i>) and the non-native English plantain (<i>P. major lanceolata</i>).	•	•		•		
TERRESTRIAL MAMM	ALS								
Fisher (<i>Martes</i> pennanti)	Proposed Threatened (West Coast Distinct Population Segment [USFWS])	Endangered and USFS Special Status	Mature, uneven stands of coniferous and mixed coniferous/deciduous with extensive continuous canopy where 50% to 90% of overstory is evergreen that is optimal winter habitat	•	•	•	•	•	
Gray wolf (<i>Canis</i> <i>lupus</i>)	Endangered (USFWS)	N/A	Security habitat is more than 300 meters from road, ungulate prey base	•					
Olympia pocket gopher (Thomomys mazama pugetensis)	Threatened (USFWS)	Threatened	Prairie and mountain meadows	•	•	•	•		
Tenino pocket gopher (<i>Thomomys</i> <i>mazama tumuli</i>)	Threatened (USFWS)	Threatened	Prairie and mountain meadows	•	•	•			
Western pocket gopher (Thomomys mazama couchi Iouiei)	Species of Concern (USFWS)	Threatened	Prairie and mountain meadows	•	•	•			
Western pocket gopher (Thomomys mazama melanops)	Species of Concern (USFWS)	Threatened	Prairie and mountain meadows	•	•	•			

				COUNTIES ^{1, 2, 3}				
COMMON NAME (SCIENTIFIC NAME)	FEDERAL STATUS (AGENCY) ^{1,2}	STATE STATUS ^{3,4}	PREFERRED HABITAT ⁵	LEWIS	THURSTON	GRAYS HARBOR	MASON	PACIFIC
Yelm pocket gopher (Thomomys mazama yelmensis)	Threatened (USFWS)	Threatened	Prairie and mountain meadows	•	•	•		
Western gray squirrel (<i>Sciurus</i> griseus)	N/A	Threatened and USFS Special Status	Pine and oak typical; transitional, conifer-dominated areas that merge with open patches of oak and other deciduous trees; mature and large seeded mast-producing trees provide abundant food and sites for nest construction	•	•	•		
FISH						·		
Coastal/Puget Sound bull trout (<i>Salvelinus</i> <i>confluentus</i>)	Threatened (USFWS)	Candidate	Anadromous; bottoms of deep pools in cold rivers and large tributary streams, often in moderate to fast currents with temperatures of 45 to 50°F; also large cold-water lakes and reservoirs; migrant forms observed in estuaries	•	•	•	•	•
Eulachon (Thaleichthys pacificus)	Threatened (NMFS)	Candidate	Anadromous; nearshore ocean bottom, coastal inlets; spawns in coastal freshwater streams, seldom more than a few miles inland			•		
Green sturgeon (Acipenser medirostris)	Threatened (NMFS [Southern Distinct Population Segment])	N/A	Anadromous; coastal marine waters, estuaries, and lower reaches of large rivers; southern population spawns in California rivers			•		
MARINE MAMMALS								
Blue whale (Balaenoptera musculus)	Endangered (NMFS)	Endangered	Mainly pelagic; generally prefer cold waters and open seas, but young are born in warmer waters of lower latitudes			•		
Humpback whale (<i>Megaptera</i> novaeangliae)	Endangered (NMFS)	Endangered	Open ocean and coastal waters, sometimes including inshore areas such as bays; summer distribution in temperate and subpolar waters; in winter, found in tropical/subtropical waters near island or coasts			•		

				COUNTIES ^{1, 2, 3}				
COMMON NAME (SCIENTIFIC NAME)	FEDERAL STATUS (AGENCY) ^{1,2}	STATE STATUS ^{3,4}	PREFERRED HABITAT ⁵	LEWIS	THURSTON	GRAYS HARBOR	MASON	PACIFIC
Killer whale (<i>Orcinus</i>	Endangered (NMFS)	Endangered	Mainly in coastal waters, but may occur anywhere in all oceans and major seas at any time of year			•		
Sperm whale (Physeter microcephalus)	Endangered (NMFS)	Endangered	Pelagic, prefer deep water, sometimes around islands or in shallow shelf waters; occur in highest densities near productive waters, near steep drop-offs or strong oceanographic features (e.g., edges of continental shelves, large islands, offshore banks, and over submarine trenches and canyons)			•		
Steller (northern) sea lion (<i>Eumetopias</i> <i>jubatus</i>)	Delisted (Eastern Distinct Population Segment [NMFS])	Threatened	Marine habitat includes coastal waters near shore and over the continental slope; sometimes ascend rivers in pursuit of prey; rookeries generally occur on beaches or remote islands with difficult access for humans and other mammalian predators; haul-out locations include exposed rocks, reefs, beaches, jetties, breakwaters, navigational aids, floating docks, and sea ice			•		
REPTILES		1						<u>.</u>
Western pond turtle (<i>Actinemys</i> <i>marmorata</i>)	Species of Concern (USFWS)	Endangered and USFS Special Status	Marshes, ponds, sloughs, and small lakes in Washington from sea level to approximately 763 meters; permanent and intermittent bodies of water on a variety of substrates, including rock, gravel, sand, mud, and decaying vegetation; submerged vegetation, rocks and logs, undercut banks, and mud are also important refugia; adults require emergent logs or boulders or floating vegetation for basking during sunny hours; dense, woody vegetation that shades potential basking sites may render an area unsuitable	•	•	•	•	

					COUNTIES ^{1, 2, 3}				
COMMON NAME (SCIENTIFIC NAME)	FEDERAL STATUS (AGENCY) ^{1,2}	STATE STATUS ^{3,4}	PREFERRED HABITAT⁵	LEWIS	THURSTON	GRAYS HARBOR	MASON	PACIFIC	
SEA TURTLES*									
Green sea turtle	Threatened (USFWS)	N/A	Fairly shallow waters (except when migrating) inside reefs,						
(Chelonia myaas)			marine grass and algae; open beaches with a sloping			•			
			platform and minimal disturbance are required for nesting						
Leatherback sea	Endangered (USFWS)	N/A	The most pelagic of the sea turtles; sandy nesting beaches						
turtle (Dermochelys			backed with vegetation and sloped sufficiently so the			•			
coriacea)			distance to dry sand is minimal; preferred nesting beaches			•			
			have proximity to deep water and generally rough seas						

Notes:

* = The only marine habitat in the Chehalis Basin is within Grays Harbor County

N/A = not applicable

NMFS = National Marine Fisheries Services

USFWS = U.S. Fish and Wildlife Service

USFS = U.S. Forest Service

1. USFWS 2015

2. NOAA 2015

3. WDFW 2008

4. USFS 2016

5. NatureServe 2015

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