

Newaukum Creek Basin Characterization Project Report

**APPENDIX E. WILDLIFE LISTS**

**Table E1.** Possible (PO), probable (PR), and confirmed (CO) bird species, by quadrant, in the Newaukum Creek basin. Note that the Block Number is listed at the bottom of the table (Opperman et al. 2006). An atlas block is one quarter of a township/range and consists of a square three miles on a side, or nine square miles in area.

Township - Range - Quadrant	21N 6E SW	20N 6E NW	20N 6E SW	26N 6E NE	21N 6E SE	20N 6E NE	20N 6E SE	20N 7E NW	20N 7E SW	20N 7E NE
Breeding Bird Atlas Block Name	Metzler-O'Grady Park	Wabash	Southeast 456th Way	Duvall	Flaming Geyser	Krain	Enumclaw	Veazie	Mill Pond	Enumclaw Mountain
Canada Goose		CO		PR			CO			
Wood Duck	CO				CO		CO			
Mallard	CO	CO	PR	PR	CO	CO	CO	PO	PR	
Blue-winged Teal							PR			
Cinnamon Teal				PO			PR			
Hooded Merganser	CO									
Common Merganser	CO				PO					
Ring-necked Pheasant	PO	PO			PO				PO	
Ruffed Grouse					CO					
California Quail	PO	PR	PR			PO	PO	PO	PO	
Pied-billed Grebe	CO									
American Bittern				CO		PR				
Great Blue Heron	CO	PO			PO			PO		
Green Heron	CO									
Turkey Vulture	PO		PO	PO			PO		PO	PO
Osprey	CO		PO	CO	CO					

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Township - Range - Quadrant	21N 6E SW	20N 6E NW	20N 6E SW	26N 6E NE	21N 6E SE	20N 6E NE	20N 6E SE	20N 7E NW	20N 7E SW	20N 7E NE
Breeding Bird Atlas Block Name	Metzler-O'Grady Park	Wabash	Southeast 456th Way	Duvall	Flaming Geyser	Krain	Enumclaw	Veazie	Mill Pond	Enumclaw Mountain
Bald Eagle							CO			
Northern Harrier									PO	
Sharp-shinned Hawk	PO									
Cooper's Hawk	PO	PO					PO			
Red-tailed Hawk	CO	CO	CO	PR	CO	PR	PR	CO	PO	PR
American Kestrel	PO	PO					PO	PO		
Virginia Rail					PO					
Sora						PR				
Killdeer	PO	CO	CO	PO	PO	CO	PO	PO	PO	
Spotted Sandpiper	CO			PO	CO					
Wilson's Snipe		PR	PR	PO		PR				
Rock Pigeon	PO	CO	CO	PO		CO	PR	CO	PO	
Band-tailed Pigeon	PO			PO					PO	PR
Mourning Dove	PO		PO				PR	PR	PO	
Barn Owl	PR						PR	PO		
Western Screech-Owl	PO									
Great Horned Owl	PR				PO			PO		
Northern Saw-whet Owl	PR									
Common Nighthawk	PO				PO					

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Township - Range - Quadrant	21N 6E SW	20N 6E NW	20N 6E SW	26N 6E NE	21N 6E SE	20N 6E NE	20N 6E SE	20N 7E NW	20N 7E SW	20N 7E NE
Breeding Bird Atlas Block Name	Metzler-O'Grady Park	Wabash	Southeast 456th Way	Duvall	Flaming Geyser	Krain	Enumclaw	Veazie	Mill Pond	Enumclaw Mountain
Vaux's Swift	PO				PO	PR	CO		PO	
Rufous Hummingbird	PO	PO	PR	PO	PO	PO	PO	CO	PO	PO
Belted Kingfisher	CO			CO	CO					
Red-breasted Sapsucker	CO	PO		PO	CO	PO	PO		PO	
Downy Woodpecker	CO	CO	PR	PO	PR	PO	CO	PO		
Hairy Woodpecker	PR			PR	PO					PO
Northern Flicker	CO	PO	PO		PO				PO	PO
Pileated Woodpecker	PR				PR	PO				
Olive-sided Flycatcher				PO	PR				PO	PO
Western Wood-Pewee	PR	PR	PR	PO	PR	PR	PO	PR	PO	
Willow Flycatcher	CO	CO	PR	PR	PR	PO	PR	PR	PR	PO
Hammond's Flycatcher	PO								PO	PO
Dusky Flycatcher									PO	
Pacific-slope Flycatcher	PR		PR	PR	PR	CO	PR	PR	PR	PR
Cassin's Vireo						PO	PO	PO	PO	
Hutton's Vireo									PO	PO
Warbling Vireo	PR			PO	PO		PO	PO	PO	PR
Red-eyed Vireo	CO			PO	PR		PO		PO	
Steller's Jay	CO		PR	PO	PO	PO	PO	PO	PO	PR

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Township - Range - Quadrant	21N 6E SW	20N 6E NW	20N 6E SW	26N 6E NE	21N 6E SE	20N 6E NE	20N 6E SE	20N 7E NW	20N 7E SW	20N 7E NE
Breeding Bird Atlas Block Name	Metzler-O'Grady Park	Wabash	Southeast 456th Way	Duvall	Flaming Geyser	Krain	Enumclaw	Veazie	Mill Pond	Enumclaw Mountain
Western Scrub-Jay						PR	CO			
American Crow	CO	CO	CO	PO	CO	CO	CO	CO	PO	
Common Raven									PO	PO
Tree Swallow	CO	CO	CO	CO	PO	PR		CO	PO	
Violet-green Swallow	CO	CO	CO	PR	CO	CO	PR	CO	PO	
Northern Rough-winged Swallow	CO			PO	PO	PO			PO	
Cliff Swallow	CO	CO	CO	CO	CO	CO	CO	CO	PO	
Barn Swallow	CO	CO	CO	CO	CO	CO	CO	CO	PR	
Black-capped Chickadee	CO	PO	PO	PO	PO	CO	PO	CO	CO	PO
Chestnut-backed Chickadee	CO		PO	PR	CO	CO	CO	CO		PO
Bushtit	PR	CO	CO	PO	PO	CO	CO	CO		
Red-breasted Nuthatch	PO	PO	PO		PR	PO	PO	PO	PO	PO
Brown Creeper	PR				PO					
Bewick's Wren	PR	CO	PO	PO	PR	PR	PO	CO	PO	PO
Winter Wren	PR	PO		PO	PR	PR	PO	PR	PO	PR
Marsh Wren	CO	PR		PO	PR	PR				
Golden-crowned Kinglet	PO	PO	PO	PO		CO			PO	PO
Western Bluebird			PO							
Swainson's Thrush	CO	PR		PR	PR	PR	PR	PR	CO	PR

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Township - Range - Quadrant	21N 6E SW	20N 6E NW	20N 6E SW	26N 6E NE	21N 6E SE	20N 6E NE	20N 6E SE	20N 7E NW	20N 7E SW	20N 7E NE
Breeding Bird Atlas Block Name	Metzler-O'Grady Park	Wabash	Southeast 456th Way	Duvall	Flaming Geyser	Krain	Enumclaw	Veazie	Mill Pond	Enumclaw Mountain
Hermit Thrush										
American Robin	CO	CO	CO	CO	CO	CO	CO	CO	CO	PO
Varied Thrush										PR
European Starling	CO	CO	CO	CO	CO	CO	CO	CO	CO	
Cedar Waxwing	CO	CO	CO	PR	CO	CO	PO	CO	PR	PR
Orange-crowned Warbler	PR	PO	PO	PO	PR	PR		PR	PR	PO
Yellow Warbler	PO	PR		PO		PR		PR		
Yellow-rumped Warbler										PO
Black-throated Gray Warbler	PO		CO		CO	CO	PO		PO	PR
Townsend's Warbler										PR
MacGillivray's Warbler		PO				PR		PR	PO	PO
Common Yellowthroat	PR	CO	PR	PR	CO	CO	PR	CO	PR	PO
Wilson's Warbler	CO	PO	PR	PR	PR	PR	PO	CO	PO	PR
Western Tanager	PR		PR	PO	CO	PO	PO		PO	PO
Spotted Towhee	CO	PR	CO	PR	PO	CO	PR	CO	PR	PO
Savannah Sparrow	CO	CO	CO	PR	CO	CO	PR	CO	PO	
Song Sparrow	CO	CO	CO	PR	CO	CO	PR	CO	PR	PR
White-crowned Sparrow	CO	CO	CO		CO	PR	PO	CO	CO	CO
Dark-eyed Junco	CO	CO	PR	PO	PR			CO	PO	PO

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Township - Range - Quadrant	21N 6E SW	20N 6E NW	20N 6E SW	26N 6E NE	21N 6E SE	20N 6E NE	20N 6E SE	20N 7E NW	20N 7E SW	20N 7E NE
Breeding Bird Atlas Block Name	Metzler-O'Grady Park	Wabash	Southeast 456th Way	Duvall	Flaming Geyser	Krain	Enumclaw	Veazie	Mill Pond	Enumclaw Mountain
Black-headed Grosbeak	PR	CO		PR	CO	CO	PO	CO	PO	PO
Lazuli Bunting	PR	PR				PR	PR	PR		
Red-winged Blackbird	PR	CO	CO	PR	CO	CO	PO	PR	PR	
Western Meadowlark			PO							
Brewer's Blackbird	CO	CO	PR	CO	PO	CO	CO	CO	CO	
Brown-headed Cowbird	CO	PR	PR	PO	CO		PO	PR	PO	
Bullock's Oriole	CO	PR	PO	PO						
Purple Finch	CO	CO			CO		PO	PO	PO	PO
House Finch	CO	CO	CO	CO	CO	CO	PO	PR	PR	
Red Crossbill		PR		PO	PO	PO		PO		PR
Pine Siskin	PR	CO	PR		PR	PO		CO		
American Goldfinch	CO	CO	CO	PO	PR	CO	PR	PR	PO	PO
Evening Grosbeak					PO	PO		PO		
House Sparrow	CO	CO	CO	PO	CO	CO	PR	CO	CO	
<i>Breeding Bird Atlas Block #</i>	<i>KG82</i>	<i>KG83</i>	<i>KG84</i>	<i>KG85</i>	<i>KG96</i>	<i>KG97</i>	<i>KG98</i>	<i>KG111</i>	<i>KG112</i>	<i>KG126</i>

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Table E2. Birds potentially inhabiting Newaukum Creek basin.

Common Name	Scientific Name	Common Name	Scientific Name
American Bittern	<i>Botaurus lentiginosus</i>	Canada Goose	<i>Branta canadensis</i>
American Coot*	<i>Fulica americana</i>	Cedar Waxwing	<i>Bombycilla cedrorum</i>
American Dipper*	<i>Cinclus mexicanus</i>	Chestnut-backed Chickadee**	<i>Poecile rufescens</i>
American Goldfinch	<i>Carduelis tristis</i>	Cinnamon Teal	<i>Anas cyanoptera</i>
American Kestrel	<i>Falco sparverius</i>	Cliff Swallow	<i>Hirundo pyrrhonota</i>
American Robin	<i>Turdus migratorius</i>	Common Merganser	<i>Mergus merganser</i>
American/Northwestern Crow	<i>Corvus brachyrhynchos/cau</i>	Common Nighthawk	<i>Chordeiles minor</i>
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Common Raven	<i>Corvus corax</i>
Band-tailed Pigeon	<i>Columba fasciata</i>	Common Snipe	<i>Gallinago gallinago</i>
Barn Owl	<i>Tyto alba</i>	Common Yellowthroat	<i>Geothlypis trichas</i>
Barn Swallow	<i>Hirundo rustica</i>	Cooper's Hawk	<i>Accipiter cooperii</i>
Barred Owl*	<i>Strix varia</i>	Dark-eyed Junco	<i>Junco hyemalis</i>
Belted Kingfisher	<i>Ceryle alcyon</i>	Downy Woodpecker	<i>Picoides pubescens</i>
Bewick's Wren	<i>Thryomanes bewickii</i>	Dusky Flycatcher**	<i>Empidonax oberholseri</i>
Black Swift*	<i>Cypseloides niger</i>	European Starling	<i>Sturnus vulgaris</i>
Black-capped Chickadee	<i>Parus atricapillus</i>	Evening Grosbeak	<i>Coccothraustes vespertinu</i>
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>	Fox Sparrow*	<i>Passerella iliaca</i>
Black-throated Gray Warbler	<i>Dendroica nigrescens</i>	Gadwall*	<i>Anas strepera</i>
Blue Grouse*	<i>Dendragapus obscurus***</i>	Golden-crowned Kinglet	<i>Regulus satrapa</i>
Blue-winged Teal**	<i>Anas discors</i>	Great Blue Heron	<i>Ardea herodias</i>
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	Great Horned Owl	<i>Bubo virginianus</i>
Brown Creeper	<i>Certhia americana</i>	Green Heron	<i>Butorides virescens</i>
Brown-headed Cowbird	<i>Molothrus ater</i>	Hairy Woodpecker	<i>Picoides villosus</i>
Bullock's Oriole	<i>Icterus bullockii</i>	Hammond's Flycatcher	<i>Empidonax hammondii</i>
Bushtit	<i>Psaltriparus minimus</i>	Harlequin Duck*	<i>Histrionicus histrionicus</i>
California Quail	<i>Callipepla californica</i>	Hermit Thrush	<i>Catharus guttatus</i>

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Common Name	Scientific Name	Common Name	Scientific Name
Hooded Merganser	<i>Lophodytes cucullatus</i>	Red Crossbill	<i>Loxia curvirostra</i>
House Finch	<i>Carpodacus mexicanus</i>	Red-breasted Nuthatch	<i>Sitta canadensis</i>
House Sparrow	<i>Passer domesticus</i>	Red-breasted Sapsucker	<i>Sphyrapicus ruber</i>
House Wren*	<i>Troglodytes aedon</i>	Red-eyed Vireo	<i>Vireo olivaceus</i>
Hutton's Vireo	<i>Vireo huttoni</i>	Red-tailed Hawk	<i>Buteo jamaicensis</i>
Killdeer	<i>Charadrius vociferus</i>	Red-winged Blackbird	<i>Agelaius phoeniceus</i>
Lazuli Bunting	<i>Passerina amoena</i>	Ring-necked Duck*	<i>Aythya collaris</i>
MacGillivray's Warbler	<i>Oporornis tolmiei</i>	Ring-necked Pheasant	<i>Phasianus colchicus</i>
Mallard	<i>Anas platyrhynchos</i>	Rock Dove	<i>Columba livia</i>
Marsh Wren	<i>Cistothorus palustris</i>	Ruffed Grouse	<i>Bonasa umbellus</i>
Mourning Dove	<i>Zenaida macroura</i>	Rufous Hummingbird	<i>Selasphorus rufus</i>
Northern Flicker	<i>Colaptes auratus</i>	Savannah Sparrow	<i>Passerculus sandwichensis</i>
Northern Harrier	<i>Circus cyaneus</i>	Sharp-shinned Hawk	<i>Accipiter striatus</i>
Northern Pygmy-Owl*	<i>Glaucidium gnoma</i>	Solitary Vireo	<i>Vireo solitarius</i>
Northern Rough-winged Swallow	<i>Stelgidopteryx serripenni</i>	Song Sparrow	<i>Melospiza melodia</i>
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	Sora	<i>Porzana carolina</i>
Northern Shoveler*	<i>Anas clypeata</i>	Spotted Sandpiper	<i>Actitis macularia</i>
Olive-sided Flycatcher	<i>Contopus borealis</i>	Spotted Towhee	<i>Pipilo maculatus</i>
Orange-crowned Warbler	<i>Vermivora celata</i>	Steller's Jay	<i>Cyanocitta stelleri</i>
Osprey	<i>Pandion haliaetus</i>	Swainson's Thrush	<i>Catharus ustulatus</i>
Pacific-slope/Cordilleran Flycatcher	<i>Empidonax difficilis/occi</i>	Townsend's Warbler	<i>Dendroica townsendi</i>
Pied-billed Grebe	<i>Podilymbus podiceps</i>	Tree Swallow	<i>Tachycineta bicolor</i>
Pileated Woodpecker	<i>Dryocopus pileatus</i>	Turkey Vulture	<i>Cathartes aura</i>
Pine Siskin**	<i>Carduelis pinus</i>	Varied Thrush	<i>Ixoreus naevius</i>
Purple Finch	<i>Carpodacus purpureus</i>	Vaux's Swift	<i>Chaetura vauxi</i>
		Violet-green Swallow	<i>Tachycineta thalassina</i>

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<b>Common Name</b>	<b>Scientific Name</b>
Virginia Rail	<i>Rallus limicola</i>
Warbling Vireo	<i>Vireo gilvus</i>
Western Bluebird	<i>Sialia mexicana</i>
Western Meadowlark	<i>Sturnella neglecta</i>
Western Screech-Owl	<i>Otus kennicottii</i>
Western Scrub-Jay	<i>Aphelocoma californica</i>
Western Tanager	<i>Piranga ludoviciana</i>
Western Wood-Pewee	<i>Contopus sordidulus</i>
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>
Willow Flycatcher	<i>Empidonax traillii</i>
Wilson`s Warbler	<i>Wilsonia pusilla</i>
Winter Wren	<i>Troglodytes troglodytes</i>
Wood Duck	<i>Aix sponsa</i>
Yellow Warbler	<i>Dendroica petechia</i>
Yellow-rumped Warbler	<i>Dendroica coronata</i>

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\* = GAP list only

\*\* = BBA list only

\*\*\* = note, blue grouse was split into two species in 2006: the Dusky Grouse (*Dendragapus obscurus*) and the Sooty Grouse (*D. fuliginosus*).

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**Table E3.** The 57 species of mammals expected to breed within Newaukum Creek Ecosystem, according to 1991 landcover data used by Washington Gap Analysis (WAGAP).

Common Name	Scientific Name	Common Name	Scientific Name
Mountain Beaver	<i>Aplodontia rufa</i>	Long-eared Myotis	<i>Myotis evotis</i>
Coyote	<i>Canis latrans</i>	Little Brown Myotis	<i>Myotis lucifugus</i>
Beaver	<i>Castor canadensis</i>	Long-legged Myotis	<i>Myotis volans</i>
Elk	<i>Cervus elaphus</i>	Yuma Myotis	<i>Myotis yumanensis</i>
Gapper`s Red-backed Vole	<i>Clethrionomys gapperi</i>	Bushy-tailed Woodrat	<i>Neotoma cinerea</i>
Virginia Opossum	<i>Didelphis virginiana</i>	Shrew-mole	<i>Neurotrichus gibbsii</i>
Big Brown Bat	<i>Eptesicus fuscus</i>	Pika	<i>Ochotona princeps</i>
Porcupine	<i>Erethizon dorsatum</i>	Mule Deer	<i>Odocoileus hemionus</i>
Mountain Lion (Cougar)	<i>Felis concolor</i>	Muskrat	<i>Ondatra zibethicus</i>
Northern Flying Squirrel	<i>Glaucomys sabrinus</i>	Forest Deer Mouse	<i>Peromyscus keeni</i>
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	Deer Mouse	<i>Peromyscus maniculatus</i>
Hoary Bat	<i>Lasiurus cinereus</i>	Heather Vole	<i>Phenacomys intermedius</i>
River Otter	<i>Lutra canadensis</i>	Townsend`s Big-eared Bat	<i>Plecotus townsendii</i>
Bobcat	<i>Lynx rufus</i>	Raccoon	<i>Procyon lotor</i>
Marten	<i>Martes americana</i>	Norway Rat	<i>Rattus norvegicus</i>
Fisher	<i>Martes pennanti</i>	Black Rat	<i>Rattus rattus</i>
Striped Skunk	<i>Mephitis mephitis</i>	Coast Mole	<i>Scapanus orarius</i>
Long-tailed Vole	<i>Microtus longicaudus</i>	Townsend`s Mole	<i>Scapanus townsendii</i>
Creeping Vole	<i>Microtus oregoni</i>	Bendire`s Shrew	<i>Sorex bendirii</i>
Richardson`s Vole	<i>Microtus richardsoni</i>	Masked Shrew	<i>Sorex cinereus</i>
Townsend`s Vole	<i>Microtus townsendii</i>	Montane Shrew	<i>Sorex monticolus</i>
House Mouse	<i>Mus musculus</i>	Water Shrew	<i>Sorex palustris</i>
Ermine	<i>Mustela erminea</i>	Trowbridge`s Shrew	<i>Sorex trowbridgii</i>
Long-tailed Weasel	<i>Mustela frenata</i>	Vagrant Shrew	<i>Sorex vagrans</i>
Mink	<i>Mustela vison</i>	Spotted Skunk	<i>Spilogale gracilis</i>
Nutria	<i>Myocastor coypus</i>	Townsend`s Chipmunk	<i>Tamias townsendii</i>
California Myotis	<i>Myotis californicus</i>	Douglas` Squirrel	<i>Tamiasciurus douglasii</i>
		Black Bear	<i>Ursus americanus</i>
		Red Fox	<i>Vulpes vulpes</i>

<b>Common Name</b>	<b>Scientific Name</b>
Pacific Jumping Mouse	<i>Zapus trinotatus</i>

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**Table E4.** Washington Gap Analysis (WAGAP) used 1991 landcover data to predict approximately 17 amphibians and reptiles that may be present in Newaukum Creek Basin.

<b>Common Name</b>	<b>Scientific Name</b>
American Bullfrog	<i>Rana catesbeiana</i>
Common Garter Snake	<i>Thamnophis sirtalis</i>
Ensatina	<i>Ensatina eschscholtzii</i>
Long-toed Salamander	<i>Ambystoma macrodactylum</i>
Northern Alligator Lizard	<i>Elgaria coerulea</i>
Northwestern Garter Snake	<i>Thamnophis ordinoides</i>
Northwestern Salamander	<i>Ambystoma gracile</i>
Pacific Giant Salamander	<i>Dicamptodon tenebrosus</i>
Pacific Treefrog	<i>Hyla regilla</i>
Painted Turtle	<i>Chrysemys picta</i>
Red-legged Frog	<i>Rana aurora</i>
Roughskin Newt	<i>Taricha granulosa</i>
Rubber Boa	<i>Charina bottae</i>
Slider	<i>Trachemys scripta</i>
Western Redback Salamander	<i>Plethodon vehiculum</i>
Western Terrestrial Garter Snake	<i>Thamnophis elegans</i>
Western Toad	<i>Bufo boreas</i>

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**Table E5.** Non-native species introductions in Western Washington, including Newaukum Creek Ecosystem (adapted from Witmer and Lewis 2001).

Species	Date	Ecological Consequences
Rock Dove	ca 1940	Forage competition, Nest competition, disease/parasites
European Starling	1940s	Forage competition, Nest competition, disease/parasites
House Sparrow	1897 (King County)	Prey competition, Forage competition, Nest competition, disease/parasites
Virginia opossum	ca 1941	Predation, disease/parasites
Red Fox	1909	Predation, Prey competition, Species endangerment, Hybridization, disease/parasites
House cat	ca 1800	Predation, Prey competition, Species endangerment, disease/parasites
Domestic dog	ca 1800	Predation, Prey competition, Species endangerment, Hybridization, disease/parasites
Eastern gray squirrel	1925 (King County)	Plant damage, Plant regeneration, Forage competition, Nest competition, Aggressive behavior, disease/parasites
Fox squirrel	ca 1940	Plant damage, Plant regeneration, Forage competition, Nest competition, Aggressive behavior, disease/parasites
Nutria	1930s (King County)	Soil erosion, Water quality/quantity, plant damage, plant regeneration, possible forage competition, disease/parasites
Black Rat Norway Rat	1800s - 1850s	Nest predation, forage competition, possible plant damage, disease/parasites
American Bullfrog	1895 (PNW)	Prey competition, Predation, Species endangerment, harbor diseases of harm to native amphibians
Sunfish (Largemouth, Smallmouth & Rock Bass (1893)	1869 (PNW)	Prey competition, Predation, Species endangerment
Other Sunfish (Bluegill, Crappie, Pumpkinseed)	1890 (Lower Columbia River)	Prey competition, Predation, Species endangerment
Yellow Perch	1890 (WA)	
Brook, Brown Cutthroat, Rainbow & other trout	Late 1800s	
Red-eared Slider Turtle	Unknown	Prey competition, Predation, Species endangerment through transfer of diseases
Common snapping turtle	1950s	