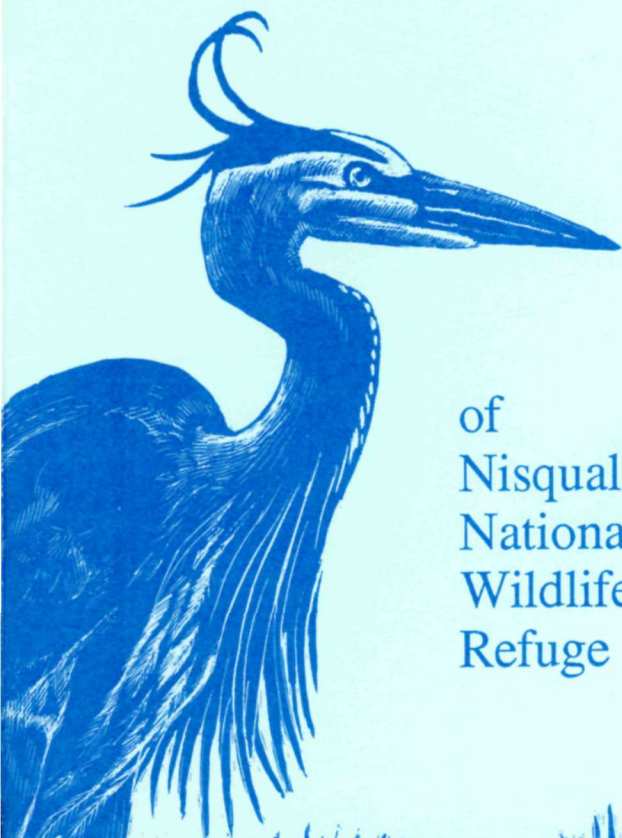


Wildlife



of
Nisqually
National
Wildlife
Refuge

HENNE

Nisqually: A Mosaic of Habitats

Waterfowl, shorebirds, raptors, marsh and water birds ... all are attracted to the mosaic of habitats found on the Nisqually Delta. A five mile long dike separates saltwater habitats from freshwater habitats and creates a land of diversity for up to 300 species of birds, mammals, reptiles, amphibians, and fish. By walking the 5-1/2 mile Brown Farm Dike Trail visitors can view six distinct habitat types and the wildlife that live in them.

Outside the Dike

Outside the dike are saltmarshes and open mudflats washed by the changing tides of Puget Sound. The salty water brings rich nutrients to the variety of clams, crabs, worms, and shrimp living in the mud, while these creatures in turn feed shorebirds, gulls, ducks, and herons.

Inside the Dike

Inside the dike freshwater marshes and open grasslands provide a quiet resting and wintering area for up to 20,000 migratory waterfowl. The grasslands teem with mice and voles, which are a ready meal for hawks, owls, and coyotes. Thick cattails and sedges surround the freshwater marshes and give protection to marsh wrens, soras, bitterns, and salamanders.

Along the Dike

A walk on the Brown Farm Dike Trail also takes visitors through riparian woodland and brush habitats. Careful observers may see winter wrens, red-legged frogs, pileated woodpeckers, and even great horned owls among the large cottonwood, alder, and big leaf maple trees growing along the Nisqually River. Along McAllister Creek, crabapples, roses, and blackberries provide a smorgasbord for songbirds. Watch for evening grosbeaks, cedar waxwings, and finches.

Nisqually National Wildlife Refuge is open to the public daily during daylight hours. The trails are open only for walking and pets are not allowed. Bring your binoculars, spotting scope, and camera, and enjoy your visit!

Wildlife Species Checklist

Notes

This wildlife checklist contains 176 species of birds that have been observed at Nisqually National Wildlife Refuge and 36 other bird species listed as accidental. The birds' common and scientific names and taxonomic order are categorized into family and subfamily groups in accordance with the 6th edition (1983) of the A. O. U. Checklist of North American Birds. Species of fishes, mammals, reptiles, and amphibians found on the refuge are also listed.

Seasons of occurrence heading columns 1 through 4:

Sp - Spring (March - May).
Su - Summer (June - July).
F - Fall (August - November).
W - Winter (December - February).

Abundance notations in columns 1 through 4:

A - Abundant: Common and in relatively large numbers.
C - Common: Seen on majority of visits to proper habitat.
U - Uncommon: Seen on less than half of visits to proper habitat.
R - Rare: Seen on less than 10% of visits to proper habitat.

Notes (*) in column 5:

N - Nesting recorded on Nisqually Delta.
FT - Federally listed threatened species.
FE - Federally listed endangered species.
SE - State listed endangered species.
SS - State listed sensitive species.
X - Accidental. Less than 5 records of occurrence on Nisqually Delta. They are not reasonably expected to be found more often than once every five to twenty years – if ever again.

Birds

	<u>Sp</u>	<u>Su</u>	<u>F</u>	<u>W</u>	<u>*</u>
GAVIIFORMES					
Gaviidae - Loons					
– Red-throated Loon	C		C	C	
– <i>Gavia stellata</i>					
– Arctic Loon	R		R	U	
– <i>Gavia arctica</i>					
– Common Loon	C	U	C	C	
– <i>Gavia immer</i>					
– Yellow-billed Loon					X
– <i>Gavia adamsii</i>					
PODICIPEDIFORMES					
Podicipedidae - Grebes					
– Pied-billed Grebe	C	C	C	C	N
– <i>Podilymbus podiceps</i>					
– Horned Grebe	C		C	C	
– <i>Podiceps auritus</i>					
– Red-necked Grebe	U		U	U	
– <i>Podiceps grisegena</i>					
– Eared Grebe				R	
– <i>Podiceps nigricollis</i>					
– Western Grebe	C	R	C	C	
– <i>Aechmophorus occidentalis</i>					
PROCELLARIIFORMES					
Procellariidae - Shearwaters					
– Short-tailed Shearwater					X
– <i>Puffinus tenuirostris</i>					
Hydrobatidae - Storm-petrels					
– Leach's Storm-petrel					X
– <i>Oceanodroma leucorhoa</i>					
PELECANIFORMES					
Pelecanidae - Pelicans					
– Brown Pelican					X, FE
– <i>Pelecanus occidentalis</i>					
Phalacrocoracidae - Cormorants					
– Double-crested Cormorant	C	C	C	C	
– <i>Phalacrocorax auritus</i>					
– Brandt's Cormorant				U	
– <i>Phalacrocorax penicillatus</i>					
– Pelagic Cormorant	U		U	U	
– <i>Phalacrocorax pelagicus</i>					
CICONIIFORMES					
Ardeidae - Herons and Bitterns					
– American Bittern	U	U	U	U	N
– <i>Botaurus lentiginosus</i>					

	<u>Sp</u>	<u>Su</u>	<u>F</u>	<u>W</u>	<u>*</u>
- Great Blue Heron <i>Ardea herodias</i>	C	C	C	C	N
- Great Egret <i>Casmerodius albus</i>					X
- Green-backed Heron <i>Butorides striatus</i>	U	U	U		N
ANSERIFORMES					
Anatidae - Swans, Geese, and Ducks					
- Tundra Swan <i>Cygnus columbianus</i>				R	
- Trumpeter Swan <i>Cygnus buccinator</i>					X
- Greater White-fronted Goose <i>Anser albifrons</i>	R		U		
- Snow Goose <i>Chen caerulescens</i>			R		
- Brant <i>Branta bernicla</i>	C			R	
- Canada Goose <i>Branta canadensis</i>	C	C	C	C	N
- Wood Duck <i>Aix sponsa</i>	U	U	R		N
- Green-winged Teal <i>Anas crecca</i>	C	R	C	A	N
- Mallard <i>Anas platyrhynchos</i>	C	C	A	A	N
- Northern Pintail <i>Anas acuta</i>	C	R	C	A	N
- Blue-winged Teal <i>Anas discors</i>	U	R			N
- Cinnamon Teal <i>Anas cyanoptera</i>	C	C	U		N
- Northern Shoveler <i>Anas clypeata</i>	C	U	C	C	N
- Gadwall <i>Anas strepera</i>	C	R	C	C	N
- Eurasian Wigeon <i>Anas penelope</i>	U		U	U	
- American Wigeon <i>Anas americana</i>	C	R	A	A	
- Canvasback <i>Aythya valisineria</i>	U	R	U	C	
- Ring-necked Duck <i>Aythya collaris</i>	U	R	U	U	N
- Greater Scaup <i>Aythya marila</i>	C	R	C	C	
- Lesser Scaup <i>Aythya affinis</i>	R		R	U	
- Oldsquaw <i>Clangula hyemalis</i>	R			R	
- Black Scoter <i>Melanitta nigra</i>				R	

	<u>Sp</u>	<u>Su</u>	<u>F</u>	<u>W</u>	<u>*</u>
- Surf Scoter <i>Melanitta perspicillata</i>	C		C	C	
- White-winged Scoter <i>Melanitta fusca</i>	C	R	C	C	
- Common Goldeneye <i>Bucephala clangula</i>	C		C	C	
- Barrow's Goldeneye <i>Bucephala islandica</i>	U		U	U	
- Bufflehead <i>Bucephala albeola</i>	C		C	C	
- Hooded Merganser <i>Lophodytes cucullatus</i>	U	R	U	C	N
- Common Merganser <i>Mergus merganser</i>	U	U	C	U	
- Red-breasted Merganser <i>Mergus serrator</i>	U	U	C	U	
- Ruddy Duck <i>Oxyura jamaicensis</i>	C	R	C	U	
FALCONIFORMES					
Cathartidae - Vultures					
- Turkey Vulture <i>Cathartes aura</i>	R	R	R		
Accipitridae - Ospreys, Hawks, Old World Vultures, and Harriers					
- Osprey <i>Pandion haliaetus</i>	R		R	R	
- Black-shouldered Kite <i>Elanus caeruleus</i>					X
- Bald Eagle <i>Haliaeetus leucocephalus</i>	U	U	U	U	FT, SS
- Northern Harrier <i>Circus cyaneus</i>	C	C	C	C	N
- Sharp-shinned Hawk <i>Accipiter striatus</i>	R		C	C	
- Cooper's Hawk <i>Accipiter cooperii</i>	R		U	R	
- Northern Goshawk <i>Accipiter gentilis</i>					X
- Red-shouldered Hawk <i>Buteo lineatus</i>					X
- Red-tailed Hawk <i>Buteo jamaicensis</i>	C	C	C	C	N
- Rough-legged Hawk <i>Buteo lagopus</i>	U		U	U	
Falconidae - Falcons					
- American Kestrel <i>Falco sparverius</i>	U	U	U	U	N
- Merlin <i>Falco columbarius</i>	U		U	U	
- Peregrine Falcon <i>Falco peregrinus</i>			R	U	FE, SE
- Gyrfalcon <i>Falco rusticolus</i>					X

	<u>Sp</u>	<u>Su</u>	<u>F</u>	<u>W</u>	<u>*</u>
- PrairieFalcon <i>Falco mexicanus</i>					X
GALLIFORMES					
Phasianidae - Upland Game Birds					
- Ring-necked Pheasant <i>Phasianus colchicus</i>	U	U	U	U	N
- Ruffed Grouse <i>Bonasa umbellus</i>					X
- Northern Bobwhite <i>Colinus virginianus</i>					X
- California Quail <i>Callipepla californica</i>	U	U	U	U	N
- Mountain Quail <i>Oreortyx pictus</i>					X
GRUIFORMES					
Rallidae - Rails, Gallinules, and Coots					
- Virginia Rail <i>Rallus limicola</i>	U	C	U	U	N
- Sora <i>Porzana carolina</i>	R	R	R		N
- American Coot <i>Fulica americana</i>	U	U	U	U	N
- Sandhill Crane <i>Grus canadensis</i>			R		SE
CHARADRIIFORMES					
Charadriidae - Plovers					
- Black-bellied Plover <i>Pluvialis squatarola</i>	U		U	R	
- Lesser Golden-plover <i>Pluvialis dominica</i>			R		
- Semipalmated Plover <i>Charadrius semipalmatus</i>	U		U		
- Killdeer <i>Charadrius vociferus</i>	C	C	C	C	N
Recurvirostridae - Stilts and Avocets					
- Black-necked Stilt <i>Himantopus mexicanus</i>					X
- American Avocet <i>Recurvirostra americana</i>					X
Scolopacidae - Woodcock, Snipe, and Sandpipers					
- Greater Yellowlegs <i>Tringa melanoleuca</i>	C	R	C	C	
- Lesser Yellowlegs <i>Tringa flavipes</i>	R		U		
- Willet <i>Catoptrophorus semipalmatus</i>					X
- Spotted Sandpiper <i>Actitis macularia</i>	U	U	U	U	N
- Whimbrel <i>Numenius phaeopus</i>	U		U		

	<u>Sp</u>	<u>Su</u>	<u>F</u>	<u>W</u>	<u>*</u>
- Red Knot <i>Calidris canutus</i>					X
- Sanderling <i>Calidris alba</i>	R		R		
- Western Sandpiper <i>Calidris mauri</i>	A	U	A	U	
- Least Sandpiper <i>Calidris minutilla</i>	C	U	C	U	
- Baird's Sandpiper <i>Calidris bairdii</i>	R		U		
- Pectoral Sandpiper <i>Calidris melanotos</i>			U		
- Sharp-tailed Sandpiper <i>Calidris acuminata</i>					X
- Dunlin <i>Calidris alpina</i>	A		A	A	
- Short-billed Dowitcher <i>Limnodromus griseus</i>	U		A		
- Long-billed Dowitcher <i>Limnodromus scolopaceus</i>	U		A	U	
- Common Snipe <i>Gallinago gallinago</i>	C	U	C	C	N
- Wilson's Phalarope <i>Phalaropus tricolor</i>	R	R			N
- Red-necked Phalarope <i>Phalaropus lobatus</i>					X
Laridae - Gulls and Terns					
- Parasitic Jaeger <i>Stercorarius parasiticus</i>			R		
- Franklin's Gull <i>Larus pipixcan</i>			R		
- Bonaparte's Gull <i>Larus philadelphia</i>	C	R	C	C	
- Heermann's Gull <i>Larus heermanni</i>					X
- Mew Gull <i>Larus canus</i>	C		C	C	
- Ring-billed Gull <i>Larus delawarensis</i>	C	U	C	U	
- California Gull <i>Larus californicus</i>	C	R	C	R	
- Herring Gull <i>Larus argentatus</i>				R	
- Thayer's Gull <i>Larus thayeri</i>	R		R	U	
- Western Gull <i>Larus occidentalis</i>	R		R	U	
- Glaucous-winged Gull <i>Larus glaucescens</i>	A	A	A	A	
- Glaucous-winged X Western Hybrid <i>Larus sp.</i>	U	R	U	U	
- Glaucous Gull <i>Larus hyperboreus</i>				R	

	<u>Sp</u>	<u>Su</u>	<u>F</u>	<u>W</u>	<u>*</u>
– Caspian Tern <i>Sterna caspia</i>	U	U			
– Common Tern <i>Sterna hirundo</i>			U		
Alcidae - Auks, Murres, and Puffins					
– Common Murre <i>Uria aalge</i>	U		U	C	
– Pigeon Guillemot <i>Cephus columba</i>	U	U	U	U	
– Marbled Murrelet <i>Brachyramphus marmoratus</i>	U	U	U	U	
– Ancient Murrelet <i>Synthliboramphus antiquus</i>				R	
– Rhinoceros Auklet <i>Cerorhinca monocerata</i>	U	R	U	C	
COLUMBIFORMES					
Columbidae - Pigeons and Doves					
– Rock Dove <i>Columba livia</i>	U	U	U	U	
– Band-tailed Pigeon <i>Columba fasciata</i>	C	C	C	U	N
– Mourning Dove <i>Zenaidura macroura</i>	U	R	U		
STRIGIFORMES					
Tytonidae - Barn Owls					
– Common Barn-owl <i>Tyto alba</i>	U	U	U	U	N
Strigidae - Typical Owls					
– Great Horned Owl <i>Bubo virginianus</i>	U	U	U	U	N
– Snowy Owl <i>Nyctea scandiaca</i>				R	
– Northern Pygmy-owl <i>Glaucidium gnoma</i>					X
– Long-eared owl <i>Asio otus</i>					X
– Short-eared Owl <i>Asio flammeus</i>	U	U	U	U	N
CAPRIMULGIFORMES					
Caprimulgidae - Goatsuckers					
– Common Nighthawk <i>Chordeiles minor</i>		U			
APODIFORMES					
Apodidae - Swifts					
– Vaux's Swift <i>Chaetura vauxi</i>		U			
Trochilidae - Hummingbirds					
– Rufous Hummingbird <i>Selasphorus rufus</i>	C	C			N

	<u>Sp</u>	<u>Su</u>	<u>F</u>	<u>W</u>	<u>*</u>
CORACIIFORMES					
Alcedinidae - Kingfishers					
– Belted Kingfisher <i>Ceryle alcyon</i>	C	C	C	C	
PICIFORMES					
Picidae - Woodpeckers					
– Lewis' Woodpecker <i>Melanerpes lewis</i>					X
– Red-breasted Sapsucker <i>Sphyrapicus ruber</i>	C	C	C	C	N
– Downy Woodpecker <i>Picoides pubescens</i>	C	C	C	C	N
– Hairy Woodpecker <i>Picoides villosus</i>	U	U	U	U	N
– Northern Flicker <i>Colaptes auratus</i>	C	C	C	C	N
– Pileated Woodpecker <i>Dryocopus pileatus</i>	U	U	U	U	N
PASSERIFORMES					
Tyrannidae - Tyrant Flycatchers					
– Olive-sided Flycatcher <i>Contopus borealis</i>		U			
– Western Wood-pewee <i>Contopus sordidulus</i>		C	U		N
– Willow Flycatcher <i>Empidonax traillii</i>		C	U		N
– Western Flycatcher <i>Empidonax difficilis</i>	C	C			N
– Western Kingbird <i>Tyrannus verticalis</i>					X
Alaudidae - Larks					
– Horned Lark <i>Eremophila alpestris</i>					X
Hirundinidae - Swallows					
– Tree Swallow <i>Tachycineta bicolor</i>	A	A	A		N
– Violet-green Swallow <i>Tachycineta thalassina</i>	A	A	A		N
– Northern Rough-winged Swallow <i>Stelgidopteryx serripennis</i>	C	C	C		N
– Cliff Swallow <i>Hirundo pyrrhonota</i>	C	C	C		N
– Barn Swallow <i>Hirundo rustica</i>	A	A	A		N
Corvidae - Jays, Magpies, and Crows					
– Steller's Jay <i>Cyanocitta stelleri</i>	C	C	C	U	
– Black-billed Magpie <i>Pica pica</i>					X

	Sp	Su	F	W	*
– American Crow <i>Corvus brachyrhynchos</i>	C	C	C	C	N
Paridae - Titmice					
– Black-capped Chickadee <i>Parus atricapillus</i>	C	C	C	C	N
– Chestnut-backed Chickadee <i>Parus rufescens</i>	C	U	C	C	N
Aegithalidae - Bushtits					
– Bushtit <i>Psaltriparus minimus</i>	C	C	C	C	N
Sittidae - Nuthatches					
– Red-breasted Nuthatch <i>Sitta canadensis</i>	C	C	C	C	N
Certhiidae - Creepers					
– Brown Creeper <i>Certhia americana</i>	U	U	U	U	N
Troglodytidae - Wrens					
– Bewick's Wren <i>Thryomanes bewickii</i>	C	C	C	C	N
– House Wren <i>Troglodytes aedon</i>		U			
– Winter Wren <i>Troglodytes troglodytes</i>	C	C	C	C	N
– Marsh Wren <i>Cistothorus palustris</i>	C	C	C	C	N
Muscicapidae - Muscapiids					
– Golden-crowned Kinglet <i>Regulus satrapa</i>	C	C	C	C	N
– Ruby-crowned Kinglet <i>Regulus calendula</i>	U		U	C	
– Western Bluebird <i>Sialia mexicana</i>					X
– Townsend's Solitaire <i>Myadestes townsendi</i>					X
– Swainson's Thrush <i>Catharus ustulatus</i>		C	C		N
– American Robin <i>Turdus migratorius</i>	C	C	C	C	N
– Varied Thrush <i>Ixoreus naevius</i>			U	C	
Mimidae - Mockingbirds and Thrashers					
– Northern Mockingbird <i>Mimus polyglottos</i>					X
Motacillidae - Pipits					
– Water Pipit <i>Anthus spinoletta</i>	U		U	R	
Bombycillidae - Waxwings					
– Cedar Waxwing <i>Bombycilla cedrorum</i>	U	C	C	R	N
Laniidae - Shrikes					
– Northern Shrike <i>Lanius excubitor</i>	R		U	U	

	Sp	Su	F	W	*
Sturnidae - Starlings					
– European Starling <i>Sturnus vulgaris</i>	A	A	A	A	N
Vireonidae - Vireos					
– Solitary Vireo <i>Vireo solitarius</i>	U	U	U		N
– Hutton's Vireo <i>Vireo huttoni</i>	U	U	U	U	N
– Warbling Vireo <i>Vireo gilvus</i>	U	C	U		N
– Red-eyed Vireo <i>Vireo olivaceus</i>	U	U	U		N
Emberizidae - Emberizids					
– Orange-crowned Warbler <i>Vermivora celata</i>	C	C	C	R	N
– Nashville Warbler <i>Vermivora ruficapilla</i>					X
– Yellow Warbler <i>Dendroica petechia</i>	C	C	C		N
– Yellow-rumped Warbler <i>Dendroica coronata</i>	C	C	C	U	N
– Black-throated Gray Warbler <i>Dendroica nigrescens</i>	C	C	C		N
– Townsend's Warbler <i>Dendroica townsendi</i>	U		U		
– MacGillivray's Warbler <i>Oporornis tolmiei</i>	C	C	C		N
– Common Yellowthroat <i>Geothlypis trichas</i>	C	C	C		N
– Wilson's Warbler <i>Wilsonia pusilla</i>	C	C	C		N
– Western Tanager <i>Piranga ludoviciana</i>	U	C	U		N
– Black-headed Grosbeak <i>Pheucticus melanocephalus</i>	U	C	U		N
– Lazuli Bunting <i>Passerina amoena</i>					X
– Rufous-sided Towhee <i>Pipilo erythrophthalmus</i>	C	C	C	C	N
– American Tree Sparrow <i>Spizella arborea</i>					X
– Chipping Sparrow <i>Spizella passerina</i>					X
– Vesper Sparrow <i>Pooecetes gramineus</i>					X
– Savannah Sparrow <i>Passerculus sandwichensis</i>	C	C	C		N
– Fox Sparrow <i>Passerella iliaca</i>	U		U	C	
– Song Sparrow <i>Melospiza melodia</i>	C	C	C	C	N
– Lincoln's Sparrow <i>Melospiza lincolnii</i>	U		U		

	<u>Sp</u>	<u>Su</u>	<u>F</u>	<u>W</u>	<u>*</u>
— White-throated Sparrow <i>Zonotrichia albicollis</i>					X
— Golden-crowned Sparrow <i>Zonotrichia atricapilla</i>	U		U	C	
— White-crowned Sparrow <i>Zonotrichia leucophrys</i>	U	U	U	C	N
— Harris' Sparrow <i>Zonotrichia querula</i>					X
— Dark-eyed Junco <i>Junco hyemalis</i>	C	C	C	A	N
— Snow-bunting <i>Plectrophenax nivalis</i>					X
— Red-winged Blackbird <i>Agelaius phoeniceus</i>	C	C	C	C	N
— Western Meadowlark <i>Sturnella neglecta</i>	U	U	U	U	N
— Yellow-headed Blackbird <i>Xanthocephalus xanthocephalus</i>	U	U	U		N
— Brewer's Blackbird <i>Euphagus cyanocephalus</i>	C	C	C	C	N
— Brown-headed Cowbird <i>Molothrus ater</i>	U	C	U	R	N
— Northern Oriole <i>Icterus galbula</i>		U			N
Fringillidae - Grosbeaks and Finches					
— Purple Finch <i>Carpodacus purpureus</i>	C	C	C	C	N
— House Finch <i>Carpodacus mexicanus</i>	C	C	C	C	N
— Red Crossbill <i>Loxia curvirostra</i>	U		U	U	
— Pine Siskin <i>Carduelis pinus</i>	C	C	C	C	N
— American Goldfinch <i>Carduelis tristis</i>	U	C	C	U	N
— Evening Grosbeak <i>Coccothraustes vespertinus</i>	C	R	C	U	

Mammals

INSECTIVORA — Insectivores

Soricidae — Shrews

— Vagrant Shrew (no common name)	<i>Sorex vagrans</i>
— Marsh Shrew	<i>Sorex monticolus</i>
— Trowbridge's Shrew	<i>Sorex bendirei</i>
	<i>Sorex trowbridgei</i>

Talpidae — Moles

— Shrew-mole	<i>Neurotrichus gibbsi</i>
— Townsend's Mole	<i>Scapanus townsendi</i>
— Coast Mole	<i>Scapanus orarius</i>

CHIROPTERA — Bats

Vespertilionidae — Vespertilionid Bats

— Yuma Myotis	<i>Myotis yumanensis</i>
— Little Brown Bat	<i>Myotis lucifugus</i>
— Long-eared Myotis	<i>Myotis evotis</i>
— Silver-haired Bat	<i>Lasionycteris noctivagans</i>
— Hoary Bat	<i>Lasiurus cinereus</i>
— Townsend's Big-eared Bat	<i>Plecotus townsendi</i>

LAGOMORPHA — Hares, Rabbits, and Pikas

Leporidae — Rabbits and Hares

— Eastern Cottontail	<i>Sylvilagus floridanus</i>
— Snowshoe Hare	<i>Lepus americanus</i>

RODENTIA — Rodents

Aplodontidae — Mountain Beaver

— Mountain Beaver	<i>Aplodontia rufa</i>
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Sciuridae — Squirrels and Relatives

— Townsend's Chipmunk	<i>Eutamias townsendi</i>
— Western Gray Squirrel	<i>Sciurus griseus</i>
— Douglas' Squirrel	<i>Tamiasciurus douglasi</i>
— Northern Flying Squirrel	<i>Glaucomys sabrinus</i>

Castoridae — Beavers

— Beaver	<i>Castor canadensis</i>
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Muridae — Murids

— Deer Mouse	<i>Peromyscus maniculatus</i>
— (no common name)	<i>Peromyscus oreas</i>
— Bushytail Woodrat	<i>Neotoma cinerea</i>
— Western Red-backed Vole	<i>Clethrionomys gapperi</i>
— Townsend's Vole	<i>Microtus townsendi</i>
— Longtail Vole	<i>Microtus longicaudus</i>
— Creeping Vole	<i>Microtus oregoni</i>
— Muskrat	<i>Ondatra zibethicus</i>
— Roof Rat	<i>Rattus rattus</i>
— Norway Rat	<i>Rattus norvegicus</i>
— House Mouse	<i>Mus musculus</i>

Zapodidae — Jumping Mice

— Pacific Jumping Mouse	<i>Zapus trinotatus</i>
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Erethizontidae — New World Porcupines

— Porcupine	<i>Erethizon dorsatum</i>
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CETACEA — Whales and Porpoises

Delphinidae — Porpoises and Dolphins

— False Killer Whale	<i>Pseudorca crassidens</i>
— Killer Whale	<i>Orcinus orca</i>
— Harbor Porpoise	<i>Phocoena phocoena</i>

Eschrichtidae — Gray Whale

— Gray Whale (*FE, SE)	<i>Eschrichtius robustus</i>
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Balaenopteridae — Fin-backed Whales

— Minke Whale	<i>Balaenoptera acutorostrata</i>
— Fin Whale (*FE, SE)	<i>Balaenoptera physalus</i>

CARNIVORA — Carnivores

Canidae — Coyote, Wolves, Foxes, and Dogs

- _ Coyote *Canis latrans*
- _ Common Red Fox *Vulpes vulpes*

Ursidae — Bears

- _ Black Bear *Ursus americanus*

Procyonidae — Raccoons and Allies

- _ Raccoon *Procyon lotor*

Mustelidae — Mustelids

- _ Ermine *Mustela erminea*
- _ Longtail Weasel *Mustela frenata*
- _ Mink *Mustela vison*
- _ Spotted Skunk *Spilogale putorius*
- _ Striped Skunk *Mephitis mephitis*
- _ River Otter *Lutra canadensis*

Felidae — Cats and Allies

- _ Mountain Lion *Felis concolor*
- _ Bobcat *Lynx rufus*

PINNIPEDIA — Seals and Walrus

Otariidae — Eared Seals

- _ Northern Sea Lion *Eumetopias jubatus*
- _ California Sea Lion *Zalophus californianus*

Phocidae — Earless Seals

- _ Harbor Seal *Phoca vitulina*

ARTIODACTYLA — Artiodactyls

Cervidae — Cervids

- _ Columbia Blacktail Deer *Odocoileus hemionus columbianus*

Reptiles

SQUAMATA

Boidae

- _ Rubber Boa *Charina bottae*

Colubridae

- _ Common Garter Snake *Thamnophis sirtalis*
- _ Northwestern Garter Snake *Thamnophis ordinoides*
- _ Western Garter Snake *Thamnophis elegans*
- _ Alligator Lizard *Gerrhonotus coeruleus*
- _ Fence Lizard *Sceloporus occidentalis*

Amphibians

CAUDATA

Ambystomatidae

- _ Long-toed Salamander *Ambystoma macrodactylum*

Salamandridae

- _ Roughskin Newt *Taricha granulosa*

Hylidae

- _ Pacific Treefrog *Hyla regilla*

Ranidae

- _ Red-legged Frog *Rana aurora*

Fishes

SALMONIFORMES

Salmonidae - Trouts

- _ Pink Salmon *Oncorhynchus gorbuscha*
- _ Chum Salmon *Oncorhynchus keta*
- _ Coho Salmon *Oncorhynchus kisutch*
- _ Sockeye Salmon (Kokanee) *Oncorhynchus nerka*
- _ Chinook Salmon *Oncorhynchus tshawytscha*
- _ Mountain Whitefish *Prosopium williamsoni*
- _ Cutthroat Trout *Salmo clarki*
- _ Rainbow Trout (Steelhead) *Salmo gairdneri*
- _ Brook Trout *Salvelinus fontinalis*
- _ Dolly Varden *Salvelinus malma*

CYPRINIFORMES

Cyprinidae - Carps and Minnows

- _ Peamouth *Mylocheilus caurinus*
- _ Northern Squawfish *Ptychocheilus oregonensis*
- _ Longnose Dace *Rhinichthys cataractae*
- _ Speckled Dace *Rhinichthys osculus*
- _ Redside Shiner *Richardsonius balteatus*

Catostomidae - Suckers

- _ Largescale Sucker *Catostomus macrocheilus*

SILURIFORMES

Ictaluridae - Bullhead Catfishes

- _ Brown Bullhead *Ictalurus nebulosus*

GASTEROSTEIFORMES

Gasterosteidae - Sticklebacks

- _ Threespine Stickleback *Gasterosteus aculeatus*

PERCIFORMES

Centrarchidae - Sunfishes

- _ Rock Bass *Ambloplites rupestris*
- _ Pumpkinseed *Lepomis gibbosus*
- _ Warmouth *Lepomis gulosus*
- _ Largemouth Bass *Micropterus salmoides*
- _ White Crappie *Pomoxis annularis*
- _ Black Crappie *Pomoxis nigromaculatus*

Percidae - Perches

- _ Yellow Perch *Perca flavescens*

Cottidae - Sculpins

- _ Sculpins ssp.

Acknowledgments

Staff of the Nisqually NWR compiled the information on species occurrence from data supplied to the refuge office over the years by many individuals. NWR staff, Bill Hesselbart, Refuge Manager; Mike McMinn, Assistant Refuge Manager; and Ellie Henke, Outdoor Recreation Planner, reviewed and refined the species lists. Ellie wrote the habitats text and drew the cover artwork. Dr. Murray L. Johnson, Curator of Mammals, Burke Museum, University of Washington, reviewed the listed mammals, reptiles, and amphibians, and enhanced the accuracy of many details. Bob Mowrey served as editor with Flo Brodie as associate.

Contributions for the first printing of this pamphlet were provided by the Margaret McKenny Memorial Fund in her memory.

Margaret McKenny was a teacher and places like the Nisqually Delta were her classrooms. She visited these wetlands often and brought people of all ages here to explore it, enjoy a day in the field, and to tell them about nature. "Everything speaks its name," she used to say; and it seemed as though she could tell you the name of absolutely every mushroom, plant and animal here if she were put to the task. People found themselves listening to this old-world naturalist and being gently persuaded that the Nisqually Delta was somehow more than the sum of its parts — it was a larger environment that protected and nourished life and it was worthy of preservation. It supported the resident life forms, including man; and also sustained populations of migratory waterfowl along the Pacific Flyway. It had international importance. In those early days, there was no wildlife refuge on the delta and the area was being favored for development by industry. She was one of the first to recognize the impending threat, advocate protection, and influence people to take action. This refuge is her legacy to you and future generations.

Wildlife Observation Tips

When

Early morning, late afternoon, and when the weather clears after a storm are good times to observe wildlife. Spring bird migration usually goes from mid-March through mid-May, and fall migration from September through December. The refuge is open daily during daylight hours.

Where

Be sure to look in a variety of habitats, along the "edges" between habitats, and remember to look high and low as well as at eye level. Please stay on the trails.

How

You will see more animals if you are QUIET. Be sure to listen for animal calls or songs, or try sitting down along the trail and waiting.

What To Bring

Binoculars or spotting scopes are helpful for observing wildlife, and a good field guide will help you identify what you see. You are always welcome to bring your camera and a lunch to eat along the trail. Don't forget your raincoat.

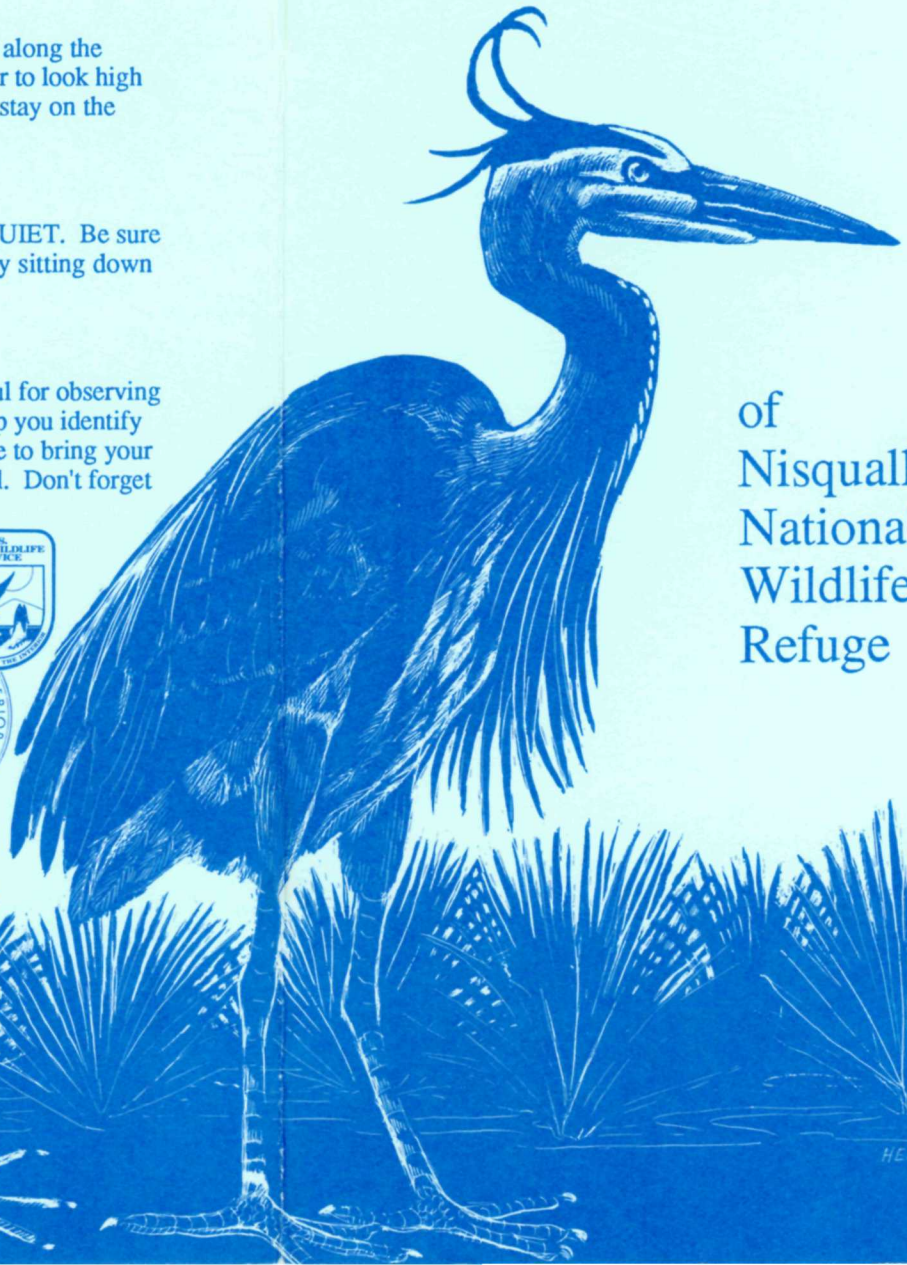
For More Information

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Wildlife

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HENNE