

# **APPENDIX A**

## **FISH AND WILDLIFE SPECIES KNOWN OR EXPECTED TO OCCUR ON NAVAL BASE KITSAP BANGOR**



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Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
American shad <i>Alosa sapidissima</i>	Herrings					
Arrow goby <i>Clevelandia ios</i>	Gobies					
Arrowtooth flounder <i>Atheresthes stomias</i>	Righteye Flounders				G	
Bay goby <i>Lepidogobius lepidus</i>	Gobies					
Bay pipefish <i>Syngnathus leptorhynchus</i>	Pipefishes and Seahorses	X				
Big skate <i>Raja binoculata</i>	Skates				G	
Bigeye starsnout poacher <i>Bathyagonus pentacanthus</i>	Poachers					
Black eelpout <i>Lycodes diapterus</i>	Eelpouts					
Black rockfish <i>Sebastes melanops</i>	Scorpionfishes/Rockfishes			Candidate	G	X
Blackbelly eelpout <i>Lycodes pacifica</i>	Eelpouts					
Blackeye goby <i>Coryphopterus nicholsii</i>	Gobies					
Blackfin sculpin <i>Malacocottus kincaidi</i>	Fathead Sculpins					
Blackfin starsnout poacher <i>Bathyagonus nigripinnis</i>	Poachers					

**Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)**

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Blacktip poacher <i>Xeneretmus latifrons</i>	Poachers					
Bluebarred prickleback <i>Plectobranchnus evides</i>	Pricklebacks					
Bluespotted poacher <i>Xeneretmus triacanthus</i>	Poachers					
Bluntnose sixgill shark <i>Hexanchus griseus</i>	Cow Sharks					
Bocaccio <i>Sebastes paucispinis</i>	Scorpionfishes/Rockfishes		(Puget Sound/ Georgia Basin DPS) Endangered	Candidate	G	X
Brown cat shark <i>Apristurus brunneus</i>	Cat Sharks					
Brown Irish lord <i>Hemilepidotus spinosus</i>	Sculpins					
Brown rockfish <i>Sebastes auriculatus</i>	Scorpionfishes/Rockfishes			Candidate	G	X
Buffalo sculpin <i>Enophrys bison</i>	Sculpins	X				
Bull trout <i>Salvelinus confluentus</i>	Salmonids					X
Butter sole <i>Isopsetta isolepis</i>	Righteye Flounders				G	
Cabezon <i>Scorpaenichthys marmoratus</i>	Sculpins				G	
Canary rockfish <i>Sebastes pinniger</i>	Scorpionfishes/Rockfishes		(Puget Sound/ Georgia Basin DPS) Threatened	Candidate	G	X

Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Chinook (chinook) salmon <i>Oncorhynchus tshawytscha</i>	Salmonids	X	(Puget Sound) Threatened	(Puget Sound) Candidate	S	X
Chum salmon <i>Oncorhynchus keta</i>	Salmonids	X	(Hood Canal ESU) Threatened	(Hood Canal ESU) Candidate		X
C-O turbot (sole) <i>Pleuronichthys coenosus</i>	Righteye Flounders	X				
Coho (silver) salmon <i>Oncorhynchus kisutch</i>	Salmonids	X	(Puget Sound/Strait of Georgia ESU) Concern	(Puget Sound) Candidate	S	X
Copper rockfish <i>Sebastes caurinus</i>	Scorpionfishes/Rockfishes			Candidate	G	X
Crescent gunnel <i>Pholis laeta</i>	Gunnels	X				
Cutthroat trout <i>Oncorhynchus clarki</i>	Salmonids	X	Concern			X
Decorated warbonnet <i>Chirolophis decoratus</i>	Pricklebacks					
Dolly varden <i>Salvelinus malma</i>	Salmonids					X
Dover sole <i>Microstomus pacificus</i>	Righteye Flounders	X			G	
Dusky sculpin <i>Icelinus burchami</i>	Sculpins					
Dwarf wrymouth <i>Lyconectes aleutensis</i>	Wrymouths	X				
English sole <i>Parophrys vetulus</i>	Righteye Flounders	X			G	X

**Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)**

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Eulachon <i>Thaleichthys pacificus</i>	Smelts	X	(Southern DPS) Threatened			X
Flathead sole <i>Hippoglossoides elassodon</i>	Righteye Flounders				G	
Fluffy sculpin <i>Oligocottus snyderi</i>	Sculpins	X				
Giant wrymouth <i>Delopesis gigantea</i>	Wrymouths	X				
Gray starsnout poacher <i>Bathyagonus alascanus</i>	Poachers					
Great sculpin <i>Myoxocephalus polyacanthocephalus</i>	Sculpins	X				
Greenstriped rockfish <i>Sebastes elongatus</i>	Scorpionfishes/Rockfishes			Candidate	G	X
Grunt sculpin <i>Rhamphocottus richardsonii</i>	Grunt Sculpins					
Gunnel Order – Pholidae	Gunnels	X				
High cockscomb <i>Anoplarchus purpurescens</i>	Pricklebacks					
Kelp greenling <i>Hexagrammos decagrammus</i>	Greenlings and Lingcod	X			G	
Kelp surfperch <i>Brachyistius frenatus</i>	Surfperches	X				
Lingcod <i>Ophiodon elongatus</i>	Greenlings and Lingcod	X			G	X
Longfin sculpin <i>Jordania zonope</i>	Sculpins					



Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Longfin smelt <i>Spirinchus thaleichthys</i>	Smelts					X
Longnose skate <i>Raja rhina</i>	Skates				G	
Longspine combfish <i>Zaniolepis latipinnis</i>	Combfishes					
Manacled sculpin <i>Synchirus gilli</i>	Sculpins					
Market squid <i>Loligo opalescens</i>	Squid	X			CP	
Northern anchovy <i>Engraulis mordax</i>	Anchovies	X			CP	
Northern clingfish <i>Gobiesox maeandricus</i>	Clingfishes					
Northern lampfish <i>Stenobranchius leucopsarus</i>	Lanternfishes	X				
Northern rock sole <i>Lepidopsetta polyxystra</i>	Righteye Flounders					
Northern ronquil <i>Ronquilus jordani</i>	Ronquils					
Northern sculpin <i>Icelinus borealis</i>	Sculpins					
Northern spearnose poacher <i>Agonopsis vulsa</i>	Poachers	X				
Pacific butterfish <i>Peprilus simillimus</i>	Butterfishes					
Pacific cod <i>Gadus macrocephalus</i>	Cods			(S. and Central Sound) Candidate	G	X

Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Pacific electric ray <i>Torpedo californica</i>	Electric Rays					
Pacific hake (whiting) <i>Merluccius productus</i>	Hakes and Relatives		(Pacific-Georgia Basin DPS) Concern	(Georgia Basin) Candidate	G	X
Pacific halibut <i>Hippoglossus stenolepis</i>	Righteye Flounders					
Pacific herring <i>Clupea harengus pallasii</i>	Herrings	X		Candidate		X
Pacific lamprey <i>Lampetra tridentata</i>	Lampreys					X
Pacific sand lance <i>Ammodytes hexapterus</i>	Sand Lances	X				X
Pacific sanddab <i>Citharichthys sordidus</i>	Lefteye Flounders	X			G	
Pacific sardine <i>Sardinops sagax</i>	Herrings	X				
Pacific snake prickleback <i>Lumpenus sagitta</i>	Pricklebacks	X				
Pacific spiny lumpsucker <i>Eumicrotremus orbis</i>	Lumpfishes					
Pacific staghorn sculpin <i>Leptocottus armatus</i>	Sculpins	X				
Pacific tomcod <i>Microgadus proximus</i>	Cods	X				
Padded sculpin <i>Artedius fenestralis</i>	Sculpins					
Painted greenling <i>Oxylebius pictus</i>	Greenlings and Lingcod					

Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Pallid eelpout <i>Lycodapus mandibularis</i>	Eelpouts					
Penpoint gunnel <i>Apodichthys flavidus</i>	Gunnels	X				
Petrale sole <i>Eopsetta jordani</i>	Righteye Flounders				G	
Pile surfperch <i>Rhacochilus vacca</i>	Surfperches	X				
Pink salmon <i>Oncorhynchus gorbuscha</i>	Salmonids	X			S	X
Plainfin midshipman <i>Porichthys notatus</i>	Toadfishes	X				
Prickly sculpin <i>Cottus asper</i>	Sculpins					
Puget Sound rockfish <i>Sebastes emphaeus</i>	Scorpionfishes/Rockfishes				G	
Pygmy poacher <i>Odontopyxis trispinosa</i>	Poachers	X				
Quillback rockfish <i>Sebastes maliger</i>	Scorpionfishes/Rockfishes			Candidate	G	X
Quillfish <i>Ptilichthys goodei</i>	Quillfish					
Red brotula <i>Brosmophycis marginata</i>	Viviparous Brotulas					
Red Irish lord <i>Hemilepidotus hemilepidotus</i>	Sculpins	X				
Redbanded rockfish <i>Sebastes babcocki</i>	Scorpionfishes/Rockfishes				G	

**Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)**

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Redstripe rockfish <i>Sebastes proriger</i>	Scorpionfishes/Rockfishes			Candidate	G	X
Rex sole <i>Glyptocephalus zachirus</i>	Righteye Flounders	X			G	
Ribbed sculpin <i>Triglops pingelii</i>	Sculpins					
Ribbon snailfish <i>Liparis cyclopus</i>	Snailfishes	X				
River lamprey <i>Lampetra ayresii</i>	Lampreys					
Rockfish (juv.) <i>Sebastes</i> spp.	Rockfish	X			G	
Rock greenling <i>Hexagrammos lagocephalus</i>	Greenlings					
Rock sole <i>Lepidopsetta bilineata</i>	Righteye Flounders				G	X
Roughback sculpin <i>Chitonotus pugetensis</i>	Sculpins					
Roughspine sculpin <i>Triglops macellus</i>	Sculpins					
Sablefish <i>Anoplopoma fimbria</i>	Sablefishes/Skillfishes				G	
Saddleback gunnel <i>Pholis ornata</i>	Gunnels	X				
Sailfin sculpin <i>Nautichthys oculofasciatus</i>	Searavens	X				
Sand sole <i>Psettichthys melanostictus</i>	Righteye Flounders	X			G	

Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Scalyhead sculpin <i>Artedius harringtoni</i>	Sculpins					
Sculpin spp. Order – Cottidae	Sculpins	X				
Sharpchin rockfish <i>Sebastes zacentrus</i>	Scorpionfishes/Rockfishes				G	
Sharpnose sculpin <i>Clinocottus acuticeps</i>	Sculpins					
Shiner surfperch <i>Cymatogaster aggregata</i>	Surfperches	X				
Shortfin eelpout <i>Lycodes brevipes</i>	Eelpouts					
Shortspine thornyhead <i>Sebastolobus alascanus</i>	Scorpionfishes/Rockfishes					
Showy snailfish <i>Liparis pulchellus</i>	Snailfishes					
Silvergray rockfish <i>Sebastes brevispinis</i>	Scorpionfishes/Rockfishes				G	
Sixgill shark <i>Hexanchus griseus</i>	Cow Sharks					
Slender cockscomb <i>Anoplarchus insignis</i>	Pricklebacks					
Slender snipe eel <i>Nemichthys scolopaceus</i>	Snipe Eels					
Slender sole <i>Lyopsetta exilis</i>	Righteye Flounders					
Slim sculpin <i>Radulinus asprellus</i>	Sculpins					

**Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)**

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Smooth alligatorfish <i>Anoplagonus inermis</i>	Poachers					
Smoothhead sculpin <i>Artedius lateralis</i>	Sculpins					
Snake prickleback <i>Lumpenus sagitta</i>	Pricklebacks	X				
Sockeye (red) salmon <i>Oncorhynchus nerka</i>	Salmonids	X				X
Soft sculpin <i>Psychrolutes sigalutes</i>	Fathead Sculpins					
Sole spp. Order – Pleuronectiformes	Righteye Flounders	X				
Southern rock sole <i>Lepidopsetta bilineata</i>	Righteye Flounders					
Speckled sanddab <i>Citharichthys stigmaeus</i>	Lefteye Flounders	X				
Spiny dogfish <i>Squalus acanthias</i>	Dogfish Sharks				G	
Spinycheek starsnout poacher <i>Bathyagonus infraspinatus</i>	Poachers					
Spinyhead sculpin <i>Dasycottus setiger</i>	Fathead Sculpins					
Splitnose rockfish <i>Sebastes diploproa</i>	Scorpionfishes/Rockfishes				G	
Spinynose sculpin <i>Dasycottus setiger</i>	Sculpins					
Spotfin sculpin <i>Icelinus tenuis</i>	Sculpins					

Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Spotted ratfish <i>Hyrolagus colliei</i>	Chimeras					
Starry flounder <i>Platichthys stellatus</i>	Righteye Flounders	X			G	
Steelhead <i>Oncorhynchus mykiss</i>	Salmonids	X	(Puget Sound) Threatened			X
Striped surfperch <i>Embiotoca lateralis</i>	Surfperches	X				
Stripetail rockfish <i>Sebastes saxicola</i>	Scorpionfishes/Rockfishes				G	
Sturgeon poacher <i>Agonus acipenserinus</i>	Poachers	X				
Surf smelt <i>Hypomesus pretiosus</i>	Smelts	X				X
Tadpole sculpin <i>Psychrolutes paradoxus</i>	Fathead Sculpins					
Threadfin sculpin <i>Icelinus filamentosus</i>	Sculpins					
Threespine stickleback <i>Gasterosteus aculeatus</i>	Sticklebacks	X				
Tidepool sculpin <i>Oligocottus maculosus</i>	Sculpins	X				
Tubesnout <i>Aulorhynchus flavidus</i>	Tubesnouts	X				
Vermillion rockfish <i>Sebastes miniatus</i>	Scorpionfishes/Rockfishes				G	
Walleye pollock <i>Theragra chalcogramma</i>	Cods	X		(S. Puget Sound) Candidate		X

**Table A-1. Marine Fish Species Known or Expected to Occur in Hood Canal (continued)**

Common Name <i>Scientific Name</i>	Common Family Name	Captured in Beach Seine <sup>1</sup>	Federal and State Listed Species		Essential Fish Habitat Species <sup>2</sup>	WDFW Priority Species
			Federal Status	Washington State Status		
Wattled eelpout <i>Lycodes palearis</i>	Eelpouts					
White sturgeon <i>Acipenser transmontanus</i>	Sturgeons					X
Whitebarred prickleback <i>Poroclinus rothrocki</i>	Pricklebacks					
Whitespotted greenling <i>Hexagrammos stelleri</i>	Greenlings and Lingcod	X				
Wolf-eel <i>Anarrhichthys ocellatus</i>	Wolffishes					
Yelloweye rockfish <i>Sebastes ruberrimus</i>	Scorpionfishes/Rockfishes		(Puget Sound/ Georgia Basin DPS) Threatened	Candidate	G	X
Yellowtail rockfish <i>Sebastes flavidus</i>	Scorpionfishes/Rockfishes			Candidate	G	X

Sources: University of Washington 2000; Palsson 2007, personal communication; Puget Sound Action Team 2007; REEF 2008; WDFW 2008a, b, c; Bhuthimethee et al. 2009; WDFW 2015.

1. SAIC 2006; Bhuthimethee et al. 2009.

2. CP = Coastal pelagic, DPS = Distinct Population Segment, ESU = Evolutionarily Significant Unit, G = Groundfish, S = Salmon.



Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
<b>Shorebirds and Wading Birds</b>						
Great blue heron <i>Ardea herodias</i>	year-round					X
Black-bellied plover <i>Pluvialis squatarola</i>	fall and spring migrant and winter resident					
Semipalmated plover <i>Charadrius semipalmatus</i>	fall and spring migrant					
Killdeer <i>Charadrius vociferus</i>	year-round					
Greater yellowlegs <i>Tringa melanoleuca</i>	fall and spring migrant					
Lesser yellowlegs <i>Tringa flavipes</i>	fall migrant				X	
Spotted sandpiper <i>Actitis macularius</i>	summer resident					
Ruddy turnstone <i>Arenaria interpres</i>	fall and spring migrant					
Black turnstone <i>Arenaria melanocephala</i>	migrant and winter resident					
Wandering tattler <i>Tringa incana</i>	fall and spring migrant					
Sanderling <i>Calidris alba</i>	migrant and winter resident					
Western sandpiper <i>Calidris mauri</i>	fall and spring migrant					
Least sandpiper <i>Calidris minutilla</i>	fall and spring migrant					

Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
Pectoral sandpiper <i>Calidris melanotos</i>	fall migrant					
Dunlin <i>Calidris alpina</i>	fall and spring migrant					
Short-billed dowitcher <i>Limnodromus griseus</i>	fall and spring migrant				X	
Long-billed dowitcher <i>Limnodromus scolopaceus</i>	fall and spring migrant					
Wilson's snipe <i>Gallinago delicata</i>	fall and spring migrant					
Red-necked phalarope <i>Phalaropus lobatus</i>	fall and spring migrant					
<b>Marine Waterfowl</b>						
Red-throated loon <i>Gavia stellata</i>	fall and spring migrant, winter resident					
Pacific loon <i>Gavia pacifica</i>	winter resident					
Common loon <i>Gavia immer</i>	winter resident		Sensitive			
Yellow-billed loon <i>Gavia adamsii</i>	winter resident				X	
Pied-billed grebe <i>Podilymbus podiceps</i>	year-round					
Horned grebe <i>Podiceps auritus</i>	winter resident					
Eared grebe <i>Podiceps nigricollis</i>	winter resident					

Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
Red-necked grebe <i>Podiceps grisegena</i>	winter resident					
Western grebe <i>Aechmophorus occidentalis</i>	winter resident		Candidate		X	
Canada goose <i>Branta canadensis</i>	year-round					
Brant <i>Branta bernicla</i>	fall and spring migrant, winter resident					X
Snow goose <i>Chen caerulescens</i>	winter resident					
White-fronted goose <i>Anser albifrons</i>	fall and spring migrant					
Trumpeter swan <i>Cygnus buccinator</i>	fall and spring migrant, winter resident					
Wood duck <i>Aix sponsa</i>	year-round, but less common in winter					X
Gadwall <i>Anas strepera</i>	year-round					
Northern pintail <i>Anas acuta</i>	winter resident					
Eurasian wigeon <i>Anas penelope</i>	winter resident					
American wigeon <i>Anas americana</i>	winter resident					
Northern shoveler <i>Anas clypeata</i>	year-round					

**Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)**

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
Mallard <i>Anas platyrhynchos</i>	year-round					
Green-winged teal <i>Anas crecca</i>	fall and spring migrant, winter resident					
Canvasback <i>Aythya valisineria</i>	winter resident					
Greater scaup <i>Aythya marila</i>	fall and spring migrant, winter resident					
Lesser scaup <i>Aythya affinis</i>	fall and spring migrant, winter resident					
Long-tailed duck <i>Clangula hyemalis</i>	winter resident					
Surf scoter <i>Melanitta perspicillata</i>	winter resident, and non-breeding flocks in summer					
White-winged scoter <i>Melanitta fusca</i>	winter resident, and non-breeding flocks in summer					
Black scoter <i>Melanitta nigra</i>	winter resident					
Bufflehead <i>Bucephala albeola</i>	winter resident					X
Common goldeneye <i>Bucephala clangula</i>	winter resident					X
Barrow's goldeneye <i>Bucephala islandica</i>	winter resident					X

Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
Hooded merganser <i>Lophodytes cucullatus</i>	year-round					X
Common merganser <i>Mergus merganser</i>	year-round					
Red-breasted merganser <i>Mergus serrator</i>	winter resident					
Ruddy duck <i>Oxyura jamaicensis</i>	winter resident					
American coot <i>Fulica americana</i>	year-round					
<b>Seabirds</b>						
Parasitic jaeger <i>Stercorarius parasiticus</i>	fall migrant, follows common tern migration					
Bonaparte's gull <i>Chroicocephalus philadelphia</i>	fall and spring migrant					
Ring-billed gull <i>Larus delawarensis</i>	fall and spring migrant, summer resident					
Mew gull <i>Larus canus</i>	winter resident					
Glaucous-winged gull <i>Larus glaucescens</i>	year-round					
Herring gull <i>Larus argentatus</i>	winter resident					
Thayer's gull <i>Larus thayeri</i>	fall and spring migrant, winter resident					

Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
Caspian tern <i>Hydroprogne caspia</i>	non-breeding summer resident				X	
Common tern <i>Sterna hirundo</i>	fall migrant					
Brant's cormorant <i>Phalacrocorax penicillatus</i>	year-round		Candidate			
Double-crested cormorant <i>Phalacrocorax auritus</i>	year-round					
Pelagic cormorant <i>Phalacrocorax pelagicus</i>	year-round				X	
Common murre <i>Uria aalge</i>	common in winter, but uncommon to absent in summer		Candidate			
Pigeon guillemot <i>Cephus columba</i>	year-round, numbers greater in winter than summer					
Marbled murrelet <i>Brachyramphus marmoratus</i>	year-round	Threatened	Threatened			X
Ancient murrelet <i>Synthliboramphus antiquus</i>	late-fall to early- winter resident					
Cassin's auklet <i>Ptychoramphus aleuticus</i>	rare to uncommon visitor in summer and fall		Candidate			X
Rhinoceros auklet <i>Cerorhinca monocerata</i>	summer resident					

Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
<b>Raptors</b>						
Bald eagle <i>Haliaeetus leucocephalus</i>	year-round		Sensitive		X	X
Osprey <i>Pandion haliaetus</i>	summer resident					
Northern harrier <i>Circus cyaneus</i>	winter resident					
Sharp-shinned hawk <i>Accipiter striatus</i>	fall migrant					
Cooper's hawk <i>Accipiter cooperii</i>	fall migrant			X		
Red-tailed hawk <i>Buteo jamaicensis</i>	year-round					
Rough-legged hawk <i>Buteo lagopus</i>	winter resident					
Merlin <i>Falco columbarius</i>	fall migrant		Candidate			
Peregrine falcon <i>Falco peregrinus</i>	fall migrant		Sensitive		X	
Turkey vulture <i>Cathartes aura</i>	summer resident					
Great horned owl <i>Bubo virginianus</i>	year-round					
Barn owl <i>Tyto alba</i>	year-round					

Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern <sup>1</sup>	USFWS Bird of Conservation Concern <sup>2</sup>	WDFW Priority Species <sup>3</sup>
		Federal Status	Washington State Status			
Snowy owl <i>Bubo scandiacus</i>	winter resident					
Western screech-owl <i>Megascops kennicottii</i>	year-round					
Barred owl <i>Strix varia</i>	year-round					
Northern saw-whet owl <i>Aegolius acadicus</i>	year-round					
Northern pygmy owl <i>Glaucidium gnoma</i>	year-round					
<b>Other Terrestrial Birds</b>						
Ruffed grouse <i>Bonasa umbellus</i>	year-round			X		
Blue grouse <i>Dendragapus obscurus</i>	year-round			X		
Ring-necked pheasant <i>Phasianus colchicus</i>	year-round					
California quail <i>Callipepla californica</i>	year-round					
Mountain quail <i>Oreortyx pictus</i>	year-round					X
Common nighthawk <i>Chordeiles minor</i>	summer resident					
Rock pigeon <i>Columba livia</i>	year-round					
Mourning dove <i>Zenaida macroura</i>	year-round					



Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
Band-tailed pigeon <i>Patagioenas fasciata</i>	common summer, uncommon winter resident			X		
Vaux's swift <i>Chaetura vauxi</i>	summer resident		Candidate			X
Anna's hummingbird <i>Calypte anna</i>	year-round					
Rufous hummingbird <i>Selasphorus rufus</i>	summer resident			X	X	
Belted kingfisher <i>Megaceryle alcyon</i>	year-round					
Red-breasted sapsucker <i>Sphyrapicus ruber</i>	year-round			X		
Hairy woodpecker <i>Picoides villosus</i>	year-round					
Downy woodpecker <i>Picoides pubescens</i>	year-round					
Northern flicker <i>Colaptes auratus</i>	year-round					
Pileated woodpecker <i>Dryocopus pileatus</i>	year-round		Candidate			X
Olive-sided flycatcher <i>Contopus cooperi</i>	summer resident			X	X	
Willow flycatcher <i>Empidonax traillii</i>	summer resident			X	X	

Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
Hammond's flycatcher <i>Empidonax hammondii</i>	summer resident					
Pacific-slope flycatcher <i>Empidonax difficilis</i>	summer resident					
Hutton's vireo <i>Vireo huttoni</i>	year-round					
Gray jay <i>Perisoreus canadensis</i>	year-round					
Steller's jay <i>Cyanocitta stelleri</i>	year-round					
American crow <i>Corvus brachyrhynchos</i>	year-round					
Common raven <i>Corvus corax</i>	year-round					
Purple martin <i>Progne subis</i>	summer resident		Candidate			X
Tree swallow <i>Tachycineta bicolor</i>	summer resident					
Violet-green swallow <i>Tachycineta thalassina</i>	summer resident					
Cliff swallow <i>Petrochelidon pyrrhonota</i>	summer resident					
Barn swallow <i>Hirundo rustica</i>	summer resident					
Black-capped chickadee <i>Poecile atricapillus</i>	year-round					

Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
Chestnut-backed chickadee <i>Poecile rufescens</i>	year-round					
Bushtit <i>Psaltriparus minimus</i>	year-round					
Red-breasted nuthatch <i>Sitta canadensis</i>	year-round					
Brown creeper <i>Certhia americana</i>	year-round					
Bewick's wren <i>Thryomanes bewickii</i>	year-round					
Winter wren <i>Troglodytes troglodytes</i>	year-round					
Marsh wren <i>Cistothorus palustris</i>	summer resident					
American dipper <i>Cinclus mexicanus</i>	year-round					
Golden-crowned kinglet <i>Regulus satrapa</i>	summer resident			X		
Ruby-crowned kinglet <i>Regulus calendula</i>	migrant, winter resident					
Swainson's thrush <i>Catharus ustulatus</i>	summer resident					
American robin <i>Turdus migratorius</i>	year-round					
Varied thrush <i>Ixoreus naevius</i>	summer resident					

**Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)**

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
European starling <i>Sturnus vulgaris</i>	year-round					
Yellow warbler <i>Dendroica petechia</i>	summer resident					
Yellow-rumped warbler <i>Dendroica coronata</i>	summer resident					
Townsend's warbler <i>Dendroica townsendi</i>	summer resident					
MacGillivray's warbler <i>Oporornis tolmiei</i>	summer resident					
Common yellowthroat <i>Geothlypis trichas</i>	summer resident					
Wilson's warbler <i>Wilsonia pusilla</i>	summer resident					
Western tanager <i>Piranga ludoviciana</i>	summer resident					
Spotted towhee <i>Pipilo maculatus</i>	summer resident					
Song sparrow <i>Melospiza melodia</i>	year-round					
White-crowned sparrow <i>Zonotrichia leucophrys</i>	summer resident					
Golden-crowned sparrow <i>Zonotrichia atricapilla</i>	migrant, summer resident					
Fox sparrow <i>Passerella iliaca</i>	winter resident					

Table A-2. Bird Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name <i>Scientific Name</i>	Season(s) of Occurrence	Federal and State Listed Species		PIF Bird of Conservation Concern? <sup>1</sup>	USFWS Bird of Conservation Concern? <sup>2</sup>	WDFW Priority Species? <sup>3</sup>
		Federal Status	Washington State Status			
Dark-eyed junco <i>Junco hyemalis</i>	year-round					
Red-winged blackbird <i>Agelaius phoeniceus</i>	summer resident					
Brewer's blackbird <i>Euphagus cyanocephalus</i>	year-round					
Brown-headed cowbird <i>Molothrus ater</i>	migrant, summer resident					
Purple finch <i>Carpodacus purpureus</i>	year-round			X	X	
House finch <i>Carpodacus mexicanus</i>	year-round					
Red crossbill <i>Loxia curvirostra</i>	year-round			X		
Pine siskin <i>Spinus pinus</i>	year-round					
American goldfinch <i>Spinus tristis</i>	year-round					
Evening grosbeak <i>Coccothraustes vespertinus</i>	summer resident					
House sparrow <i>Passer domesticus</i>	year-round					

Sources: Taber and Raedeke 1983; Opperman 2003; Wahl et al. 2005; Nysewander et al. 2005; Kitsap Audubon Society 2008; Agness and Tannenbaum 2009a; WDFW 2015.

1. Altman 1999a, 1999b.
2. USFWS 2008, Tables 6 and 39.
3. WDFW 2008c.

**Table A-3. Mammal Species Known or Expected to Occur on NAVBASE Kitsap Bangor**

Common Name	Scientific Name	Season(s) of Occurrence	Federal and State Listed Species		WDFW Priority Species? <sup>1</sup>
			Federal Status	Washington State Status	
<b>Marine Mammals</b>					
Gray whale	<i>Eschrichtius robustus</i>	year-round (rare)		Sensitive	X
Minke whale	<i>Balaenoptera acutorostrata</i>	spring, summer and fall (rare)			
Humpback whale	<i>Megaptera novaeangliae</i>	spring and fall (rare)	Endangered	Endangered	X
Killer whale (Southern Resident)	<i>Orcinus orca</i>	year-round (rare)	Endangered	Endangered	X
Killer whale (Transient)	<i>Orcinus orca</i>	year-round (rare)			X
Dall's porpoise	<i>Phocoenoides dalli</i>	year-round (infrequent)			X
Harbor porpoise	<i>Phocoena phocoena</i>	year-round (rare)		Candidate	X
Harbor seal	<i>Phoca vitulina richardsi</i>	year-round (common, resident species)			X
Northern elephant seal	<i>Mirounga angustirostris</i>	summer and fall (rare)			
California sea lion	<i>Zalophus californianus californianus</i>	fall to late spring (common)			X
Steller sea lion	<i>Eumetopias jubatus</i>	October to June (seasonal)		Threatened	
<b>Game</b>					
Cougar	<i>Felis concolor</i>	year-round			
Bobcat	<i>Lynx rufus</i>	year round			
Black bear	<i>Ursus americanus</i>	early spring to fall (active), and winter hibernation			
Columbian black-tailed deer	<i>Odocoileus hemionus columbianus</i>	year-round			X

Table A-3. Mammal Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name	Scientific Name	Season(s) of Occurrence	Federal and State Listed Species		WDFW Priority Species? <sup>1</sup>
			Federal Status	Washington State Status	
<b>Non-Game</b>					
Virginia opossum	<i>Didelphis virginiana</i>	year-round			
Feral dog	<i>Canis familiaris</i>	year-round			
Feral cat	<i>Felis catus</i>	year-round			
Masked shrew	<i>Sorex cinereus</i>	year-round			
Vagrant shrew	<i>Sorex vagrans</i>	year-round			
Trowbridge's shrew	<i>Sorex trowbridgii</i>	year-round			
Coast mole	<i>Scapanus orarius</i>	year-round			
Myotis bats	<i>Myotis spp.</i>	year-round			X
Hoary bat	<i>Lasiurus cinereus</i>	year-round			
Silver-haired bat	<i>Lasionycteris noctivagans</i>	year-round			
Big brown bat	<i>Eptesicus fuscus</i>	year-round			
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	year-round	Species of concern	Candidate	X
Snowshoe hare	<i>Lepus americanus</i>	year-round			
Mountain beaver	<i>Aplodontia rufa</i>	year-round			
Townsend's chipmunk	<i>Tamias townsendii</i>	year-round			
Eastern gray squirrel	<i>Sciurus carolinensis</i>	year-round			
Douglas squirrel	<i>Tamiasciurus douglasii</i>	year-round			
Northern flying squirrel	<i>Glaucomys sabrinus</i>	year-round			
Beaver	<i>Castor canadensis</i>	year-round			

**Table A-3. Mammal Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)**

Common Name	Scientific Name	Season(s) of Occurrence	Federal and State Listed Species		WDFW Priority Species? <sup>1</sup>
			Federal Status	Washington State Status	
Bushy-tailed woodrat	<i>Neotoma cinerea</i>	year-round			
Forest deer mouse	<i>Peromyscus keeni</i>	year-round			
Deer mouse	<i>Peromyscus maniculatus</i>	year-round			
Gapper's red-backed vole	<i>Clethrionomys gapperi</i>	year-round			
Long-tailed vole	<i>Microtus longicaudus</i>	year-round			
Townsend's vole	<i>Microtus townsendii</i>	year-round			
Creeping vole	<i>Microtus oregoni</i>	year-round			
Pacific jumping mouse	<i>Zapus trinotatus</i>	year-round			
Muskrat	<i>Ondatra zibethicus</i>	year-round			
Porcupine	<i>Erethizon dorsatum</i>	year-round			
Nutria	<i>Myocastor coypus</i>	year-round			
House mouse	<i>Mus musculus</i>	year-round			
Norway rat	<i>Rattus norvegicus</i>	year-round			
Black rat	<i>Rattus rattus</i>	year-round			
Coyote	<i>Canis latrans</i>	year-round			
Red fox	<i>Vulpes vulpes</i>	year-round			
Raccoon	<i>Procyon lotor</i>	year-round			
Ermine	<i>Mustela erminea</i>	year-round			
Long-tailed weasel	<i>Mustela frenata</i>	year-round			
Mink	<i>Mustela vison</i>	year-round			



**Table A-3. Mammal Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)**

Common Name	Scientific Name	Season(s) of Occurrence	Federal and State Listed Species		WDFW Priority Species? <sup>1</sup>
			Federal Status	Washington State Status	
Striped skunk	<i>Mephitis mephitis</i>	year-round			
Western spotted skunk	<i>Spilogale gracilis</i>	year-round			
River otter	<i>Lutra canadensis</i>	year-round			

Sources: Osborne et al. 1988; Calambokidis and Baird 1994; Johnson and Cassidy 1997; Osmek et al. 1998; Jeffries et al. 2000; Paulson 2003b; Jeffries 2006, personal communication; Laake 2006, personal communication; Carretta et al. 2007; Agness and Tannenbaum 2009b; WDFW 2015.

1. WDFW 2008c.

**Table A-4. Amphibian and Reptile Species Known or Expected to Occur on NAVBASE Kitsap Bangor**

Common Name	Scientific Name	Season(s) of Occurrence	Federal and State Listed Species		WDFW Priority Species? <sup>1</sup>
			Federal Status	Washington State Status	
<b>Amphibians</b>					
Northwestern salamander	<i>Ambystoma gracile</i>	year-round			
Long-toed salamander	<i>Ambystoma macrodactylum</i>	year-round			
Roughskin newt	<i>Taricha granulosa</i>	year-round			
Western red-backed salamander	<i>Plethodon vehiculum</i>	year-round			
Ensatina	<i>Ensatina eschscholtzii</i>	year-round			
Western toad	<i>Bufo boreas</i>	year-round	Species of concern	Candidate	<b>X</b>
Pacific treefrog	<i>Hyla regilla</i>	year-round			
Northern red-legged frog	<i>Rana aurora</i>	year-round			
Bullfrog (Non-native)	<i>Rana catesbeiana</i>	year-round			

Table A-4. Amphibian and Reptile Species Known or Expected to Occur on NAVBASE Kitsap Bangor (continued)

Common Name	Scientific Name	Season(s) of Occurrence	Federal and State Listed Species		WDFW Priority Species? <sup>1</sup>
			Federal Status	Washington State Status	
<b>Reptiles</b>					
Western painted turtle	<i>Chrysemys picta bellii</i>	year-round			
Slider (Introduced)	<i>Trachemys scripta</i>	year-round			
Northern alligator lizard	<i>Elgaria coerulea principis</i>	year-round			
Western fence lizard	<i>Sceloporus occidentalis</i>	year-round			
Rubber boa	<i>Charina bottae</i>	year-round			
Western terrestrial garter snake	<i>Thamnophis elegans</i>	year-round			
Northwestern garter snake	<i>Thamnophis ordinoides</i>	year-round			
Common garter snake	<i>Thamnophis sirtalis</i>	year-round			

Sources: Storm and Leonard 1995; Dvornich et al. 1997; Paulson 2003a; Jones et al. 2005; WDFW 2015.

1. WDFW 2008c.

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