
APPENDIX C

BIOLOGY TABLES

Table C-1
All Species Lists for CBNMS

Common Name	Scientific Name	Federal Status	Population Trend	Seasonal Use of ROI	Breeding Season	Sanctuary
Vertebrates						
Birds						
Red-throated Loon	<i>Gavia stellata</i>	-	S?	Oct-Apr	May-Aug	B
Pacific Loon	<i>Gavia pacifica</i>	-	I	Oct-Apr	May-Aug	B
Common Loon	<i>Gavia immer</i>	-	I	Oct-Apr	Apr-Aug	B
Red-necked Grebe	<i>Podiceps grisegena</i>	-	D	Nov-Mar	May-Aug	B
Shy Albatross	<i>Thalassarche cauta</i>	-	?	Aug-Oct	Aug-Mar	C
Light-mantled Sooty Albatross	<i>Phoebastria palpebrata</i>	-	?	Jul	Aug-Mar	C
	<i>Phoebastria</i>					
Laysan Albatross	<i>immutabilis</i>	-	D	Nov-Jul*	Nov-Jul	B
Black-footed Albatross	<i>Phoebastria nigripes</i>	-	D	Nov-Jul*	Nov-Jun	B
Short-tailed Albatross	<i>Phoebastria albatrus</i>	E	I	Nov-Jul*	Nov-Jun	B
Northern Fulmar	<i>Fulmarus glacialis</i>	-	S	Nov-Mar	May-Sep	B
Great-winged Petrel	<i>Pterodroma macroptera</i>	-	?	Jul-Aug	Sep-Mar	C
Murphy's Petrel	<i>Pterodroma ultima</i>	-	?	Apr-Jul	Jan-Dec	B
	<i>Pterodroma</i>					
Mottled Petrel	<i>inexpectata</i>	-	?	Oct-Dec	Sep-Mar	B
Dark-rumped Petrel	<i>Pterodroma phaeopygia</i>	E	I	May-Sep	Mar-Sep	B
Cook's Petrel	<i>Pterodroma cookii</i>	-				C
Streaked Shearwater	<i>Calonectris leucomelas</i>	-				C
Pink-footed Shearwater	<i>Puffinus creatopus</i>	-	S	Mar-Nov	Sep-Mar	B
Flesh-footed Shearwater	<i>Puffinus carneipes</i>	-	?	Sep-Dec	Sep-Mar	B
Buller's Shearwater	<i>Puffinus bulleri</i>	-	S	Jul-Nov	Sep-Mar	B
Sooty Shearwater	<i>Puffinus griseus</i>	-	D	Feb-Nov	Sep-Mar	B
Short-tailed Shearwater	<i>Puffinus tenuirostris</i>	-	D?	Sep-Dec	Oct-May	B
Manx Shearwater	<i>Puffinus puffinus</i>	-	?	Jan-Dec	Mar-Oct	B
Black-vented Shearwater	<i>Puffinus opisthomelas</i>	-	D?	Aug-Jan	Feb-Sep	B
Wilson's Storm-Petrel	<i>Oceanites oceanicus</i>	-	?	Jun-Nov	Oct-Feb	B
Fork-tailed Storm-Petrel	<i>Oceanodroma furcata</i>	-	S	Jan-Dec*	Apr-Sep	B
	<i>Oceanodroma</i>					
Leach's Storm-Petrel	<i>leucorhoa</i>	-	D	Feb-Dec*	Mar-Sep	B
	<i>Oceanodroma</i>					
Ashy Storm-Petrel	<i>homochroa</i>	-	D	Feb-Nov	Apr-Oct	B
Black Storm-Petrel	<i>Oceanodroma melania</i>	-	?	Aug-Oct	Feb-Aug	B
	<i>Oceanodroma</i>					
Least Storm-Petrel	<i>microsoma</i>	-	?	Aug-Oct	Feb-Aug	C
Brown Pelican	<i>Pelecanus occidentalis</i>	E	D	Jul-Dec	Feb-Jun	B
	<i>Phalacrocorax</i>					
Brandt's Cormorant	<i>penicillatus</i>	-	S	Jan-Dec*	Mar-Sep	B
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	-	I	Jan-Dec*	Feb-Jul	B
	<i>Phalacrocorax</i>					
Pelagic Cormorant	<i>pelagicus</i>	-	S	Jan-Dec*	Feb-Aug	B
Magnificent Frigatebird	<i>Fregata magnificens</i>	-	?	Jun-Oct	Feb-Sep	B
Brant	<i>Branta bernicla</i>	-	S?	Nov-Mar	May-Sep	B
Surf Scoter	<i>Melanitta perspicillata</i>	-	D	Oct-Apr	May-Sep	B
Red-necked Phalarope	<i>Phalaropus lobatus</i>	-	S	May-Oct	May-Aug	B
Red Phalarope	<i>Phalaropus fulicaria</i>	-	S	Aug-Apr	May-Aug	B
	<i>Catharacta</i>					
South Polar Skua	<i>maccormicki</i>	-	I?	May-Nov	Sep-Apr	B

Common Name	Scientific Name	Federal Status	Population Trend	Seasonal		
				Use of ROI	Breeding Season	Sanctuary
Pomarine Jaeger	<i>Stercorarius pomarinus</i>	-	I	Feb-Nov	Apr-Sep	B
Parasitic Jaeger	<i>Stercorarius parasiticus</i>	-	S?	Mar-Oct	May-Aug	B
Long-tailed Jaeger	<i>longicaudus</i>	-	I?	May-Oct	May-Sep	B
Bonaparte's Gull	<i>Larus philadelphia</i>	-	S	Oct-Apr	Apr-Aug	B
Heermann's Gull	<i>Larus heermanni</i>	-	S	May-Dec	Feb-Jun	B
Mew Gull	<i>Larus canus</i>	-	D	Oct-Mar	May-Aug	B
California Gull	<i>Larus californicus</i>	-	S	Jan-Dec*	Apr-Aug	B
Herring Gull	<i>Larus argentatus</i>	-	I	Oct-Mar	Apr-Aug	B
Thayer's Gull	<i>Larus thayeri</i>	-	I?	Oct-Apr	May-Aug	B
Western Gull	<i>Larus occidentalis</i>	-	D	Jan-Dec*	Apr-Aug	B
Glaucous-winged Gull	<i>Larus glaucescens</i>	-	I	Oct-Apr	May-Aug	B
Glaucous Gull	<i>Larus hyperboreus</i>	-	S?	Nov-Feb	May-Aug	B
Sabine's Gull	<i>Xema sabini</i>	-	I	May-Nov	May-Aug	B
Black-legged Kittiwake	<i>Rissa tridactyla</i>	-	S	Oct-Mar	May-Aug	B
Caspian Tern	<i>Sterna caspia</i>	-	I?	Mar-Oct*	Apr-Sep	B
Elegant Tern	<i>Sterna elegans</i>	-	I?	Jul-Nov*	Feb-Jun	B
Common Tern	<i>Sterna hirundo</i>	-	D?	May-Sep	May-Sep	B
Arctic Tern	<i>Sterna paradisaea</i>	-	S?	May-Sep	May-Aug	B
Forster's Tern	<i>Sterna forsteri</i>	-	S?	Jan-Dec*	Apr-Sep	B
Sooty Tern	<i>Sterna fuscata</i>	-				C
Common Murre	<i>Uria aalge</i>	-	I	Jan-Dec*	Mar-Jul	B
Pigeon Guillemot	<i>Cepphus columba</i>	-	S	Mar-Sep*	May-Sep	B
Marbled Murrelet	<i>Brachyramphus marmoratus</i>	T	S	Jan-Dec*	Apr-Sep	B
Xantus's Murrelet	<i>Synthliboramphus hypoleucus</i>	-	D?	Jun-Nov	Feb-Jul	B
Craveri's Murrelet	<i>Synthliboramphus craveri</i>	-	D?	Jul-Oct	Feb-Jul	B
Ancient Murrelet	<i>Synthliboramphus antiquus</i>	-	S	Oct-Apr	Mar-Aug	B
Cassin's Auklet	<i>Ptychoramphus aleuticus</i>	-	D	Jan-Dec*	Mar-Sep	B
Parakeet Auklet	<i>Aethia psittacula</i>	-	D	Nov-Feb	May-Aug	B
Rhinoceros Auklet	<i>Cerorhinca monocerata</i>	-	I	Jan-Dec*	Mar-Sep	B
Horned Puffin	<i>Fratercula corniculata</i>	-	I?	Nov-May	May-Aug	B
Tufted Puffin	<i>Fratercula cirrhata</i>	-	S	Mar-Sep	Apr-Aug	B
Mammals						
Common Name	Scientific Name	FS	PT	NMSSEAS	BRSEAS	GC
Blue Whale	<i>Balaenoptera musculus</i>	E	I	Apr-Nov	Nov-Feb	B
Fin Whale	<i>Balaenoptera physalus</i>	E	I	Apr-Oct	Nov-Feb	B
Sei Whale	<i>Balaenoptera borealis</i>	E	S?	Jun-Oct	Nov-Feb	B
Minke Whale	<i>Balaenoptera acutorostrata</i>	-	S?	Aug-Nov	Nov-Feb	B
Humpback Whale	<i>Megaptera novaeangliae</i>	E	I	Jul-Nov	Nov-Mar	B
Gray Whale	<i>Eschrichtius robustus</i>	D	S	Nov-May	Dec-Mar	B
Northern Right Whale	<i>Eubalaena glacialis</i>	E	I	Aug-Oct	Nov-Feb	B
Harbor Porpoise	<i>Phocoena phocoena</i>	-	D?	Jan-Dec*	May-Jul	B
Dall's Porpoise	<i>Phocoenoides dalli</i>	-	S?	Mar-Nov*	Jul-Sep	B
Pacific White-sided Dolphin	<i>Lagenorhynchus obliquidens</i>	-	S?	Feb-Nov*	Jul-Oct	B

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Northern Right Whale Dolphin	<i>Lissodelphis borealis</i>	-	S?	May-Nov*	Feb-Jul	B
Long-beaked Common Dolphin	<i>Delphinus capensis</i>	-	D?	Aug-Nov	Apr-Oct	B
Striped Dolphin	<i>Stenella coeruleoalba</i>	-	S?	Aug-Oct	Jan-Dec	B
Risso's Dolphin	<i>Grampus griseus</i>	-	S?	Mar-Nov*	no data	B
Killer Whale	<i>Orcinus orca</i>	-	S?	Feb-Nov*	Jan-Dec	B
	<i>Globicephala</i>					
Short-finned Pilot Whale	<i>macrorhynchus</i>	-	S?	Mar-Jul	Jan-Dec	B
Sperm Whale	<i>Physeter macrocephalus</i>	E	I?	Aug-Oct	Nov-Mar	B
Pigmy Sperm Whale	<i>Kogia breviceps</i>	-	S?	Aug-Oct	Nov-Apr	B
Dwarf Sperm Whale	<i>Kogia simus</i>	-	S?	Feb	Nov-Mar	B
Cuvier's Beaked Whale	<i>Ziphius cavirostris</i>	-	S?	Aug-Oct	no data	B
Baird's Beaked Whale	<i>Berardius bairdii</i>	-	S?	May-Nov*	Dec-Jun	B
Hubb's Beaked Whale	<i>Mesoplodon calrhubbii</i>	-	S?	Mar	Apr-Aug	B
Blainsville's Beaked Whale	<i>Mesoplodon densirostris</i>	-	S?	Oct	no data	B
Steller Sea Lion	<i>Eumetopius jubatus</i>	T	D	Jan-Dec*	Apr-Jul	B
California Sea Lion	<i>Zalophus californianus</i>	-	I	Jan-Dec*	Apr-Aug	B
Northern Fur Seal	<i>Callorhinus ursinus</i>	-	I	May-Oct*	Apr-Jul	B
	<i>Mirounga</i>					
Northern Elephant Seal	<i>angustirostris</i>	-	I	Jan-Dec*	Dec-Mar	B
Harbor Seal	<i>Phoca vitulina</i>	-	I	Jan-Dec*	Mar-Jun	B
Fish						
black hagfish	<i>Eptatretus deani</i>	-	S?	Jan-Dec	Feb-Oct	C
Pacific hagfish	<i>Eptatretus stoutii</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific lamprey	<i>Lampreta tridentata</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Notorynchus</i>					
sevengill shark	<i>cepedianus</i>	-	S?	Jan-Dec	Feb-Oct	B
sixgill shark	<i>Hexanchus griseus</i>	-	S?	Jan-Dec	Feb-Oct	B
spiny dogfish	<i>Squalus acanthias</i>	-	D?	Jan-Dec	Feb-Oct	B
Pacific sleeper shark	<i>Somniosus pacificus</i>	-	S?	Jan-Dec	Feb-Oct	B
prickly shark	<i>Echinorhinus cookei</i>	-	S?	Jan-Dec	Feb-Oct	?
brown catshark	<i>Apristurus brunneus</i>	-	S?	Jan-Dec	Feb-Oct	B
longnose catshark	<i>Apristurus kampae</i>	-	S?	Jan-Dec	Feb-Oct	B
filetail catshark	<i>Parmaturus xanthurus</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Carcharodon</i>					
white shark	<i>carcharias</i>	-	I?	Jan-Dec	Mar-Jul	B
shortfin mako shark	<i>Isurus oxyrinchus</i>	-	S?	Aug-Nov	Feb-Oct	B
salmon shark	<i>Lamna ditropis</i>	-	S?	Jan-Dec	Feb-Oct	B
brown smoothhound shark	<i>Mustelus henlei</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific electric ray	<i>Torpedo californica</i>	-	S?	Jan-Dec	Feb-Oct	B
sandpaper skate	<i>Bathyraja kincaidii</i>	-	S?	Jan-Dec	Feb-Oct	B
black skate	<i>Bathyraja trachura</i>	-	S?	Jan-Dec	Feb-Oct	B
big skate	<i>Raja binoculata</i>	-	S?	Jan-Dec	Feb-Oct	B
California skate	<i>Raja inornata</i>	-	S?	Jan-Dec	Feb-Oct	B
longnose skate	<i>Raja rhina</i>	-	S?	Jan-Dec	Feb-Oct	B
starry skate	<i>Raja stellulata</i>	-	S?	Jan-Dec	Feb-Oct	B
white skate	<i>Bathyraja spinosissima</i>	-	S?	Jan-Dec	Feb-Oct	B
deepsea skate	<i>Bathyraja abyssicola</i>	-	S?	Jan-Dec	Feb-Oct	B
Bering skate	<i>Bathyraja interrupta</i>	-	S?	Jan-Dec	Feb-Oct	B
manta	<i>Manta birostris</i>	-	S?	Jan-Dec	Feb-Oct	?

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Pacific ratfish	<i>Hydrolagus colliei</i>	-	S?	Jan-Dec	Feb-Oct	B
green sturgeon	<i>Acipenser medirostris</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Acipenser</i>					
white sturgeon	<i>transmontanus</i>	E	S?	Jan-Dec	Feb-Oct	B
Pacific herring	<i>Clupea pallasii</i>	-	S?	Nov-Mar	Feb-Oct	B
Pacific sardine	<i>Sardinops sagax</i>	-	I	Jan-Dec	Feb-Oct	B
American shad	<i>Alosa sapidissima</i>	-	S?	Jan-Dec	Feb-Oct	B
northern anchovy	<i>Engraulis mordax</i>	-	S	Jun-Nov	Feb-Oct	B
		E & T				
rainbow trout	<i>Oncorhynchus mykiss</i>	regional	D	Jan-Dec	Feb-Oct	B
chum salmon	<i>Oncorhynchus keta</i>	T	D	Jan-Dec	Feb-Oct	?
sockeye salmon	<i>Oncorhynchus nerka</i>	E	D	Jan-Dec	Feb-Oct	?
	<i>Oncorhynchus</i>					
pink salmon	<i>gorbuscha</i>	-	D	Jan-Dec	Feb-Oct	?
	<i>Oncorhynchus</i>	E & T				
chinook salmon	<i>tshawytscha</i>	regional	D	Jan-Dec	Feb-Oct	B
silver (coho) salmon	<i>Oncorhynchus kisutch</i>	T	D	Jan-Dec	Feb-Oct	B
longnose lancetfish	<i>Alepisaurus ferox</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Alepocephalus</i>					
California slickhead	<i>tenebrosus</i>	-	S?	Jan-Dec	Feb-Oct	B
slender snipe eel	<i>Nemichthys scolopaceus</i>	-	S?	Jan-Dec	Feb-Oct	B
threadfin slickhead	<i>Talismania bifurcata</i>	-	S?	Jan-Dec	Feb-Oct	B
bobtail snipe eel	<i>Cyema atrum</i>	-	S?	Jan-Dec	Feb-Oct	?
surf smelt	<i>Hypomesus pretiosus</i>	-	S?	Jan-Dec	Feb-Oct	B
eulachon	<i>Thaleichthys pacificus</i>	-	S?	Jan-Dec	Feb-Oct	C
whitebait smelt	<i>Allosmerus elongatus</i>	-	S?	Jan-Dec	Feb-Oct	B
night smelt	<i>Spirinchus starksi</i>	-	S?	Jan-Dec	Feb-Oct	B
benttooth bristlemouth	<i>Cyclothone acclinidens</i>	-	S?	Jan-Dec	Feb-Oct	B
bigeye lightfish	<i>Daphnos ocellatus</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific argentine	<i>Argentina sialis</i>	-	S?	Jan-Dec	Feb-Oct	B
snubnose blacksmelt	<i>Bathylagus wesethi</i>	-	S?	Jan-Dec	Feb-Oct	?
popeye blacksmelt	<i>Bathylagus ochotensis</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific blacksmelt	<i>Bathylagus pacificus</i>	-	S?	Jan-Dec	Feb-Oct	B
dollar hatchetfish	<i>Sternoptyx sp.</i>	-	S?	Jan-Dec	Feb-Oct	?
slender hatchetfish	<i>Argyropelecus affinis</i>	-	S?	Jan-Dec	Feb-Oct	C
	<i>Argyropelecus</i>					
spurred hatchetfish	<i>hemigymnus</i>	-	S?	Jan-Dec	Feb-Oct	?
silvery hatchetfish	<i>Argyropelecus sladeni</i>	-	S?	Jan-Dec	Feb-Oct	B
silver hatchetfish	<i>Argyropelecus lychnus</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Macropinna</i>					
Pacific barreleye	<i>microstoma</i>	-	S?	Jan-Dec	Feb-Oct	?
highfin dragonfish	<i>Bathophilus flemingi</i>	-	S?	Jan-Dec	Feb-Oct	?
longfin dragonfish	<i>Tactostoma macropus</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific viperfish	<i>Chauliodus macouni</i>	-	S?	Jan-Dec	Feb-Oct	B
daggertooth	<i>Anotopterus pharao</i>	-	S?	Jan-Dec	Feb-Oct	?
northern pearleye	<i>Benthalbella dentata</i>	-	S?	Jan-Dec	Feb-Oct	?
ribbon barracudina	<i>Notolepsis risso</i>	-	S?	Jan-Dec	Feb-Oct	C
	<i>Aristostomias</i>					
shiny loosejaw	<i>scintillans</i>	-	S?	Jan-Dec	Feb-Oct	?
scaly paperbone	<i>Scopelosaurus barryi</i>	-	S?	Jan-Dec	Feb-Oct	?
California headlightfish	<i>Diaphus theta</i>	-	S?	Jan-Dec	Feb-Oct	C
	<i>Protomyctophum</i>					
California flashlightfish	<i>crockeri</i>	-	S?	Jan-Dec	Feb-Oct	B
northern lampfish	<i>Stenobranchius</i>	-	S?	Jan-Dec	Feb-Oct	B

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blue lanternfish	<i>leucopsaurus Tarletonbaenia crenularis</i>	-	S?	Jan-Dec	Feb-Oct	B
California lanternfish	<i>Symbolophorus californiensis</i>	-	S?	Jan-Dec	Feb-Oct	C
broadfin lampfish	<i>Lampanyctus ritteri</i>	-	S?	Jan-Dec	Feb-Oct	B
brokenline lampfish	<i>Lampanyctus jordani</i>	-	S?	Jan-Dec	Feb-Oct	C
pinpoint lampfish	<i>Lampanyctus regalis</i>	-	S?	Jan-Dec	Feb-Oct	C
plainfin midshipman	<i>Porichthys notatus</i>	-	S?	Jan-Dec	Feb-Oct	B
spotted cusk eel	<i>Chilara taylori</i>	-	S?	Jan-Dec	Feb-Oct	B
basketweave cusk eel	<i>Ophidion scrippsae</i>	-	S?	Jan-Dec	Feb-Oct	B
California grenadier	<i>Nezumia stelgidolepis</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific grenadier	<i>Coryphaenoides acrolepis</i>	-	S?	Jan-Dec	Feb-Oct	B
hundred fathom codling	<i>Physiculus rastrelliger</i>	-	S?	Jan-Dec	Feb-Oct	?
finescape codling	<i>Antimora microlepis</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific hake	<i>Merluccius productus</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific cod	<i>Gadus microcephalus</i>	-	D?	Jan-Dec	Feb-Oct	B
Pacific tomcod	<i>Microgadus proximus</i>	-	S?	Jan-Dec	Feb-Oct	B
walleye pollock	<i>Theragra chalcogramma</i>	-	D?	Jan-Dec	Feb-Oct	B
giant grenadier	<i>Albatrossia pectoralis</i>	-	S?	Jan-Dec	Feb-Oct	B
shoulderspot grenadier	<i>Coelorinchus scaphopsis</i>	-	S?	Jan-Dec	Feb-Oct	B
bearded eelpout	<i>Lycinema barbatus</i>	-	S?	Jan-Dec	Feb-Oct	?
black eelpout	<i>Lycodes diapterus</i>	-	S?	Jan-Dec	Feb-Oct	B
flatcheck eelpout	<i>Embryx crotalina</i>	-	S?	Jan-Dec	Feb-Oct	?
bigfin eelpout	<i>Aprodon corteziannus</i>	-	S?	Jan-Dec	Feb-Oct	B
blackbelly eelpout	<i>Lycodopsis pacifica</i>	-	S?	Jan-Dec	Feb-Oct	B
twoline eelpout	<i>Bothrocara brunneum</i>	-	S?	Jan-Dec	Feb-Oct	B
soft eelpout	<i>Bothrocara molle</i>	-	S?	Jan-Dec	Feb-Oct	?
blackmouth eelpout	<i>Lycodapus fierasfer</i>	-	S?	Jan-Dec	Feb-Oct	?
snakehead eelpout	<i>Embryx crotalinus</i>	-	S?	Jan-Dec	Feb-Oct	C
longfin eelpout	<i>Bothrocara remigerum</i>	-	S?	Jan-Dec	Feb-Oct	C
Pacific saury	<i>Cololabis saira</i>	-	S?	Jan-Dec	Feb-Oct	B
flapjack devilfish	<i>Opisthotenthis californiana</i>	-	S?	Jan-Dec	Feb-Oct	B
fangtooth	<i>Anoplogaster cornuta</i>	-	S?	Jan-Dec	Feb-Oct	B
veilfin	<i>Caristius macropus</i>	-	S?	Jan-Dec	Feb-Oct	?
crested bigscale	<i>Poromitra crassiceps</i>	-	S?	Jan-Dec	Feb-Oct	?
twospine bigscale	<i>Scopelogadus mizolepis</i>	-	S?	Jan-Dec	Feb-Oct	B
king-of-the-salmon	<i>Trachipterus altivelis</i>	-	S?	Jan-Dec	Feb-Oct	?
bay pipefish	<i>Syngnathus leptorhynchus</i>	-	S?	Jan-Dec	Feb-Oct	B
shortspine thornyhead	<i>Sebastolobus alascanus</i>	-	S?	Jan-Dec	Feb-Oct	B
longspine thornyhead	<i>Sebastolobus altivelis</i>	-	S?	Jan-Dec	Feb-Oct	B
copper rockfish	<i>Sebastes caurinus</i>	-	D?	Jan-Dec	Feb-Oct	B
whitebelly rockfish	<i>Sebastes vexilaris</i>	-	D?	Jan-Dec	Feb-Oct	?
calico rockfish	<i>Sebastes dallii</i>	-	D?	Jan-Dec	Feb-Oct	B
silvergray rockfish	<i>Sebastes brevispinis</i>	-	S?	Jan-Dec	Feb-Oct	B
china rockfish	<i>Sebastes nebulosus</i>	-	D?	Jan-Dec	Feb-Oct	B
gopher rockfish	<i>Sebastes carnatus</i>	-	D?	Jan-Dec	Feb-Oct	B
brown rockfish	<i>Sebastes auriculatus</i>	-	D?	Jan-Dec	Feb-Oct	B
quillback rockfish	<i>Sebastes maliger</i>	-	D?	Jan-Dec	Feb-Oct	B

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black rockfish	<i>Sebastes melanops</i>	-	D?	Jan-Dec	Feb-Oct	B
squarespot rockfish	<i>Sebastes hopkinsi</i>	-	S?	Jan-Dec	Feb-Oct	B
speckled rockfish	<i>Sebastes ovalis</i>	-	D?	Jan-Dec	Feb-Oct	B
widow rockfish	<i>Sebastes entomelas</i>	-	D?	Jan-Dec	Feb-Oct	B
yellowtail rockfish	<i>Sebastes flavidus</i>	-	D?	Jan-Dec	Feb-Oct	C
olive rockfish	<i>Sebastes serranoides</i>	-	D?	Jan-Dec	Feb-Oct	B
starry rockfish	<i>Sebastes constellatus</i>	-	D?	Jan-Dec	Feb-Oct	B
greenspotted rockfish	<i>Sebastes chlorostictus</i>	-	D?	Jan-Dec	Feb-Oct	C
	<i>Sebastes</i>					
rosethorn rockfish	<i>belvomaculatus</i>	-	S?	Jan-Dec	Feb-Oct	B
swordspine rockfish	<i>Sebastes ensifer</i>	-	S?	Jan-Dec	Feb-Oct	B
pink rockfish	<i>Sebastes eos</i>	-	D?	Jan-Dec	Feb-Oct	B
greenblotched rockfish	<i>Sebastes rosenblatti</i>	-	D?	Jan-Dec	Feb-Oct	B
shortbelly rockfish	<i>Sebastes jordani</i>	-	D?	Jan-Dec	Feb-Oct	B
tiger rockfish	<i>Sebastes nigrocinctus</i>	-	S?	Jan-Dec	Feb-Oct	C
flag rockfish	<i>Sebastes rubrivinctus</i>	-	D?	Jan-Dec	Feb-Oct	B
redbanded rockfish	<i>Sebastes babcocki</i>	-	D?	Jan-Dec	Feb-Oct	B
greenstriped rockfish	<i>Sebastes elongatus</i>	-	D?	Jan-Dec	Feb-Oct	B
bocaccio	<i>Sebastes paucispinis</i>	-	D	Jan-Dec	Feb-Oct	B
chilipepper	<i>Sebastes goodei</i>	-	D	Jan-Dec	Feb-Oct	B
cowcod	<i>Sebastes laevis</i>	-	D	Jan-Dec	Feb-Oct	B
yelloweye rockfish	<i>Sebastes ruberrimus</i>	-	D	Jan-Dec	Feb-Oct	B
splitnose rockfish	<i>Sebastes diploproa</i>	-	D?	Jan-Dec	Feb-Oct	B
aurora rockfish	<i>Sebastes aurora</i>	-	D?	Jan-Dec	Feb-Oct	B
blackgill rockfish	<i>Sebastes melanostomus</i>	-	D?	Jan-Dec	Feb-Oct	B
rougheye rockfish	<i>Sebastes aleutianus</i>	-	S?	Jan-Dec	Feb-Oct	C
redstripe rockfish	<i>Sebastes proriger</i>	-	S?	Jan-Dec	Feb-Oct	B
bank rockfish	<i>Sebastes rufus</i>	-	D?	Jan-Dec	Feb-Oct	B
Pacific ocean perch	<i>Sebastes alutus</i>	-	D?	Jan-Dec	Feb-Oct	B
canary rockfish	<i>Sebastes pinniger</i>	-	D?	Jan-Dec	Feb-Oct	B
vermilion rockfish	<i>Sebastes miniatus</i>	-	D?	Jan-Dec	Feb-Oct	B
darkblotched rockfish	<i>Sebastes crameri</i>	-	S?	Jan-Dec	Feb-Oct	B
stripetail rockfish	<i>Sebastes saxicola</i>	-	D?	Jan-Dec	Feb-Oct	B
halfbanded rockfish	<i>Sebastes semicinctus</i>	-	D?	Jan-Dec	Feb-Oct	B
sharpchin rockfish	<i>Sebastes zucentrus</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Prionotus</i>					
lumptail searobin	<i>stephanophrys</i>	-	S?	Jan-Dec	Feb-Oct	?
sablefish	<i>Anoplopoma fimbria</i>	-	S?	Jan-Dec	Feb-Oct	B
skilfish	<i>Erilepis zonifer</i>	-	S?	Jan-Dec	Feb-Oct	?
shortspine combfish	<i>Zaniolepis frenata</i>	-	S?	Jan-Dec	Feb-Oct	B
longspine combfish	<i>Zaniolepis latipinnis</i>	-	S?	Jan-Dec	Feb-Oct	B
lingcod	<i>Ophiodon elongatus</i>	-	D	Jan-Dec	Feb-Oct	B
	<i>Pleurogrammus</i>					
atka mackerel	<i>monopterygius</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Rhamphocottus</i>					
grunt sculpin	<i>richardsonii</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Scorpaenichthys</i>					
cabezon sculpin	<i>marmoratus</i>	-	D?	Jan-Dec	Feb-Oct	B
thornback sculpin	<i>Paricelinus hopliticus</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Nautichthys</i>					
sailfin sculpin	<i>oculofasciatus</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Hemilepidotus</i>					
red irishlord	<i>hemilepidotus</i>	-	S?	Jan-Dec	Feb-Oct	B
staghorn sculpin	<i>Leptocottus armatus</i>	-	S?	Jan-Dec	Feb-Oct	B

Common Name	Scientific Name	Federal Status	Population Trend	Seasonal		
				Use of ROI	Breeding Season	Sanctuary
yellowchin sculpin	<i>Icelinus quadriseriatus</i>	-	S?	Jan-Dec	Feb-Oct	B
frogmouth sculpin	<i>Icelinus oculatus</i>	-	S?	Jan-Dec	Feb-Oct	B
dusky sculpin	<i>Icelinus burchami</i>	-	S?	Jan-Dec	Feb-Oct	B
threadfin sculpin	<i>Icelinus filamentosus</i>	-	S?	Jan-Dec	Feb-Oct	B
spotfin sculpin	<i>Icelinus tenuis</i>	-	S?	Jan-Dec	Feb-Oct	B
darther sculpin	<i>Radulinus boleoides</i>	-	S?	Jan-Dec	Feb-Oct	B
slim sculpin	<i>Radulinus asprellus</i>	-	S?	Jan-Dec	Feb-Oct	C
flabby sculpin	<i>Zesticelus profundurum</i>	-	S?	Jan-Dec	Feb-Oct	?
tubenose poacher	<i>Pallesina barbarta</i>	-	S?	Jan-Dec	Feb-Oct	?
warty poacher	<i>Ocella verrucosa</i>	-	S?	Jan-Dec	Feb-Oct	B
pricklebreast poacher	<i>Stellerina xyosterna</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Podotbecus</i>					
sturgeon poacher	<i>acipenserinus</i>	-	S?	Jan-Dec	Feb-Oct	C
beardless spearnose						
poacher	<i>Ganoides vulsus</i>	-	S?	Jan-Dec	Feb-Oct	?
northern spearnose						
poacher	<i>Agonopsis emmelane</i>	-	S?	Jan-Dec	Feb-Oct	B
smooth alligatorfish	<i>Anoplagonus inermis</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Bathyagonus</i>					
blackfin poacher	<i>nigripinnis</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Asterotheca</i>					
bigeye starnose poacher	<i>pentacantha</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Xeneretmus</i>					
bluespotted poacher	<i>triacanthus</i>	-	S?	Jan-Dec	Feb-Oct	B
blackedge poacher	<i>Xeneretmus latifrons</i>	-	S?	Jan-Dec	Feb-Oct	B
smootheye poacher	<i>Xeneretmus leiops</i>	-	S?	Jan-Dec	Feb-Oct	C
blacktail snailfish	<i>Careproctus melanurus</i>	-	S?	Jan-Dec	Feb-Oct	B
showy snailfish	<i>Lipris pulchellus</i>	-	S?	Jan-Dec	Feb-Oct	B
slipskin snailfish	<i>Liparis fuscensis</i>	-	S?	Jan-Dec	Feb-Oct	B
ringtail snailfish	<i>Liparis rutteri</i>	-	S?	Jan-Dec	Feb-Oct	B
humpback snailfish	<i>Elassodiscus caudatus</i>	-	S?	Jan-Dec	Feb-Oct	C
blackfin snailfish	<i>Careproctus cypselurus</i>	-	S?	Jan-Dec	Feb-Oct	B
red snailfish	<i>Paraliparis dactylosus</i>	-	S?	Jan-Dec	Feb-Oct	C
ocean whitefish	<i>Caulotilus princeps</i>	-	D?	Jan-Dec	Feb-Oct	B
whalesucker	<i>Remiligia australis</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific pomfret	<i>Brama japonica</i>	-	S?	Jan-Dec	Feb-Oct	B
white seabass	<i>Atractoscion nobilis</i>	-	D?	Jan-Dec	Feb-Oct	B
white croaker	<i>Genyonemus lineatus</i>	-	S?	Jan-Dec	Feb-Oct	B
pelagic armorhead	<i>Pentaceros richardsoni</i>	-	S?	Jan-Dec	Feb-Oct	B
spotfin surfperch	<i>Hyperprosopon anale</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Hyperprosopon</i>					
silver surfperch	<i>ellipticum</i>	-	S?	Jan-Dec	Feb-Oct	B
shiner surfperch	<i>Cymatogaster aggregata</i>	-	S?	Jan-Dec	Feb-Oct	B
pink surfperch	<i>Zalembius rosaceus</i>	-	S?	Jan-Dec	Feb-Oct	B
sharpnose surfperch	<i>Phanerodon atripes</i>	-	S?	Jan-Dec	Feb-Oct	B
California sheephead	<i>Semicossyphus pulcher</i>	-	S?	Jan-Dec	Feb-Oct	?
stripfin ronquil	<i>Rathbunella hypoplecta</i>	-	S?	Jan-Dec	Feb-Oct	B
northern ronquil	<i>Ronquilus jordani</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Anarrhichthys</i>					
wolf eel	<i>ocellatus</i>	-	D?	Jan-Dec	Feb-Oct	B
dwarf wrymouth	<i>Lycconectes alentensis</i>	-	S?	Jan-Dec	Feb-Oct	B
mosshead warbonnet	<i>Chirolophis nugator</i>	-	S?	Jan-Dec	Feb-Oct	B
whitebarred prickleback	<i>Poroclinus rothrocki</i>	-	S?	Jan-Dec	Feb-Oct	B
bluebarred prickleback	<i>Plectrobranchus evides</i>	-	S?	Jan-Dec	Feb-Oct	B

Common Name	Scientific Name	Federal Status	Population Trend	Seasonal Use of ROI	Breeding Season	Sanctuary
Pacific fat sleeper	<i>Dormitator latofrons</i>	-	S?	Jan-Dec	Feb-Oct	?
ragfish	<i>Icosteus aenigmaticus</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific scabbardfish	<i>Lepidopus xantusi</i>	-	S?	Jan-Dec	Feb-Oct	B
escolar	<i>Lepidocybrium flavobrunneum</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific mackerel	<i>Scomber japonicus</i>	-	S?	Jan-Dec	Feb-Oct	B
skipjack	<i>Euthynnus pelamis</i>	-	D?	Jan-Dec	Feb-Oct	B
albacore	<i>Thunnus alalunga</i>	-	D?	Aug-Nov	Feb-Oct	B
bluefin tuna	<i>Thunnus thynnus</i>	-	D?	Aug-Nov	Feb-Oct	B
shortbill spearfish	<i>Tetrapturus angustirostris</i>	-	D?	Aug-Oct	Feb-Oct	?
striped marlin	<i>Tetrapturus audax</i>	-	D?	Jan-Dec	Feb-Oct	?
louvar	<i>Louvarus imperialis</i>	-	S?	Jan-Dec	Feb-Oct	B
medusafish	<i>Icichthys lockingtoni</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific pompano	<i>Peprilus simillimus</i>	-	D?	Jan-Dec	Feb-Oct	B
California tonguefish	<i>Symphurus atricauda</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific halibut	<i>Hippoglossus stenolepis</i>	-	D?	Jan-Dec	Feb-Oct	B
southern rock sole	<i>Lepidopsetta bilineata</i>	-	D?	Jan-Dec	Feb-Oct	B
curlfin turbot	<i>Pleuronichthys decurrens</i>	-	D?	Jan-Dec	Feb-Oct	B
hornyhead turbot	<i>Pleuronichthys verticalis</i>	-	D?	Jan-Dec	Feb-Oct	B
sand sole	<i>Psettichthys melanostictus</i>	-	D?	Jan-Dec	Feb-Oct	B
English sole	<i>Parophrys vetulus</i>	-	D?	Jan-Dec	Feb-Oct	B
butter sole	<i>Isopsetta isolepis</i>	-	D?	Jan-Dec	Feb-Oct	B
starry flounder	<i>Platichthys stellatus</i>	-	D?	Jan-Dec	Feb-Oct	B
Pacific sanddab	<i>Citharichthys sordidus</i>	-	D?	Jan-Dec	Feb-Oct	B
speckled sanddab	<i>Citharichthys stigmaeus</i>	-	D?	Jan-Dec	Feb-Oct	B
rex sole	<i>Glyptocephalus zachirus</i>	-	D?	Jan-Dec	Feb-Oct	B
deepsea sole	<i>Embassichthys bathybius</i>	-	D?	Jan-Dec	Feb-Oct	B
greenland halibut	<i>Reinhardtius hippoglossoides</i>	-	D?	Jan-Dec	Feb-Oct	B
arrowtooth flounder	<i>Atheresthes stomias</i>	-	D?	Jan-Dec	Feb-Oct	B
Dover sole	<i>Mocrostomus pacificus</i>	-	D?	Jan-Dec	Feb-Oct	B
slender sole	<i>Lyopsetta exilis</i>	-	D?	Jan-Dec	Feb-Oct	B
flathead sole	<i>Hippoglossoides elassodon</i>	-	D?	Jan-Dec	Feb-Oct	C
petrale sole	<i>Eopsetta jordani</i>	-	D?	Jan-Dec	Feb-Oct	B
finescale triggerfish	<i>Balistes polylepis</i>	-	S?	Jan-Dec	Feb-Oct	?
black durgon	<i>Melichthys niger</i>	-	S?	Jan-Dec	Feb-Oct	?
oceanic pufferfish	<i>Lagocephalus lagocephalus</i>	-	S?	Aug-Oct	Feb-Oct	B
common mola	<i>Mola mola</i>	-	S?	Jun-Nov	Feb-Oct	B
Reptiles						
Green Sea Turtle	<i>Chelonia mydas</i>	E	I?	Sep-Oct	May-Sep	?
Pacific Ridley	<i>Lepidochelys olivacea</i>	T	D	Sep-Oct	May-Sep	?
Loggerhead Turtle	<i>Caretta caretta</i>	T	D	Sep-Oct	May-Sep	?
Hawksbill Turtle	<i>Eretmochelys imbricata</i>	E	D	Sep-Oct	May-Sep	?
Leatherback Turtle	<i>Dermochelys coriacea</i>	E	D	Jun-Dec	May-Sep	B

Common Name	Scientific Name	Federal Status	Range
Invertebrates			
Sponge	<i>Sphaciospongia confederata</i>	-	BC - Baja
Sponge	<i>Geodia mesotriaena</i>	-	Alaska to Gulf of CA
Bread crumb sponge	<i>Halichondria panacea</i>	-	c. CA - north
Sponge	<i>Stelletta clarella</i>	-	?
Sponge	<i>Polymastia pachymastia</i>	-	?
Sponge	<i>Acarnus erithacus</i>	-	?
White-plumed anemone	<i>Metridium senile</i>	-	AK - s. CA
Strawberry sea anemone	<i>Corynactis californica</i>	-	n. CA - s. CA
Yellow anemone	<i>Epizoanthus scotinus</i>	-	AK - s. CA
Hydrocoral	<i>Stylaster californicus</i> (<i>Allopora californica</i>)	-	BC - c. CA
Orange cup coral	<i>Balanophyllia elegans</i>	-	OR - s. CA
Cup coral	<i>Caryophyllia arnoldi</i>	-	
Azooxanthellate coral	<i>Desmophyllum dianthus</i>	-	
Stony coral	<i>Javania californica</i>	-	
Azooxanthellate coral	<i>Labyrinthocyathus quaylei</i>	-	
Azooxanthellate coral	<i>Oculina profunda</i>	-	
Brown cup coral	<i>Paracyathus stearnsi</i>	-	
Hydroid	<i>Garveia annulata</i>	-	AK - c. CA
Leather star	<i>Dermasterias imbricata</i>	-	AK - c. CA
Giant sea urchin	<i>Strongylocentrotus franciscanus</i>	-	AK - Baja
Brittle star	<i>Ophionereis annulata</i>	-	s. CA - c. SA
Star	<i>Mediaster aequalis</i>	-	c. CA
California sea cucumber	<i>Parastichopus californicus</i>	-	AK - Baja
Pink snail	<i>Pedicularia californica</i>	-	?
Blue ringed top snail	<i>Callistoma ligatum</i>	-	AK - c. CA
Purple ringed top snail	<i>Callistoma annulatum</i>	-	AK - Baja
Lined chiton	<i>Tonicella lineata</i>	-	AK - c. CA
Dwarf turbin snail	<i>Homalopoma luridum</i>	-	AK - Baja
Sea lemon	<i>Anisodoris nobilis</i>	-	BC - Baja
Spider crab/decorator crab	<i>Loxorhynchus crispatus</i>	-	n. CA - Baja
Sharp nose crab	<i>Scyra acutifrons</i>	-	AK - Baja
Giant barnacle	<i>Balanus nubilus</i>	-	AK - Baja
Giant thatched barnacle	<i>Mega-balanus californicus</i>	-	n. CA - s. CA
Barnacle	<i>Armatobalanus nefrens</i>	-	C. CA - s. CA
Isopod	<i>Munna spinifrons</i>	-	?
Polycheate	<i>Nereis eakini</i>	-	?
Polycheate	<i>Polydora alloporis</i>	-	?
Tunicate	<i>Cystodytes lobata</i>	-	BC - Baja
Algae			
Diatom	<i>Entophylla incurvata</i>	-	?
Acid algae	<i>Desmarestia tabacoides</i>	-	BC - s. CA
Pipe skin	<i>Syringoderma phinneyi</i>	-	?
Bull Kelp	<i>Nereocystis luetkeana</i>	-	AK - c. CA
not available	<i>Maripelta rotata</i>	-	Carmel to Baja
Many viened algae	<i>Polyneura latissima</i>	-	BC - Baja
Beautiful leaf	<i>Callophyllis</i> sp.	-	WA - Baja
Fauch's algae	<i>Fauchea</i> sp.	-	BC to c. CA
crustose algae	<i>Crucoria profunda</i>	-	WA - MX
not available	<i>Fosliella</i> sp. (new species)	-	?
Flat bush	<i>Platybammion heteromorphum</i>	-	OR - Baja

Common Name	Scientific Name	Federal Status	Range
Flat tubes	<i>Platysiphonia decumbens</i>	-	WA - s. CA

Abbreviations:

Federal Status:

- E - Endangered
- T - Threatened
- C - Candidate
- P - Proposed
- D - Delisted

Population Trend:

- I - Increasing
- S - Stable
- D - Decreasing
- ? - following above (e.g., "I?") indicates no data are available but we guess this designation based on anecdotal information.

Sanctuary:

- C – Cordell Bank NMS only
- B - Both Cordell Bank and Gulf of the Farallones NMS
- ? - Suspected of occurring based on range but documented records lacking.

Table C-2
All Species Lists for GFNMS

Common Name	Scientific Name	Federal Status	Population Trend	Seasonal Use of ROI	Breeding Season	Sanctuary
VERTEBRATES						
Birds						
Red-throated Loon	<i>Gavia stellata</i>	-	S?	Oct-Apr	May-Aug	B
Pacific Loon	<i>Gavia pacifica</i>	-	I	Oct-Apr	May-Aug	B
Common Loon	<i>Gavia immer</i>	SC	I	Oct-Apr	Apr-Aug	B
Yellow-billed Loon	<i>Gavia adamsii</i>	-	?	Nov-Mar	May-Aug	F
Pied-billed Grebe	<i>Podilymbus podiceps</i>	-	S?	Jan-Dec*	Mar-Aug	F
Horned Grebe	<i>Podiceps auritus</i>	-	D?	Oct-Apr	Apr-Aug	F
Red-necked Grebe	<i>Podiceps grisegena</i>	-	D	Nov-Mar	May-Aug	B
Eared Grebe	<i>Podiceps nigricollis</i>	-	D	Oct-Apr	Apr-Aug	F
Western Grebe	<i>Aechmophorus occidentalis</i>	-	S	Jan-Dec	Mar-Aug	F
Clark's Grebe	<i>Aechmophorus clarkii</i>	-	S	Jan-Dec	Mar-Aug	F
Laysan Albatross	<i>Phoebastria immutabilis</i>	-	D	Nov-Jul*	Nov-Jul	B
Black-footed Albatross	<i>Phoebastria nigripes</i>	-	D	Nov-Jul*	Nov-Jun	B
Short-tailed Albatross	<i>Phoebastria albatrus</i>	E	I	Nov-Jul*	Nov-Jun	B
Northern Fulmar	<i>Fulmarus glacialis</i>	-	S	Nov-Mar	May-Sep	B
Murphy's Petrel	<i>Pterodroma ultima</i>	-	?	Apr-Jul	Jan-Dec	B
Mottled Petrel	<i>Pterodroma inexpectata</i>	-	?	Oct-Dec	Sep-Mar	B
Dark-rumped Petrel	<i>Pterodroma phaeopygia</i>	E	I	May-Sep	Mar-Sep	B
Pink-footed Shearwater	<i>Puffinus creatopus</i>	-	S	Mar-Nov	Sep-Mar	B
Flesh-footed Shearwater	<i>Puffinus carneipes</i>	-	?	Sep-Dec	Sep-Mar	B
Buller's Shearwater	<i>Puffinus bulleri</i>	-	S	Jul-Nov	Sep-Mar	B
Sooty Shearwater	<i>Puffinus griseus</i>	-	D	Feb-Nov	Sep-Mar	B
Short-tailed Shearwater	<i>Puffinus tenuirostris</i>	-	D?	Sep-Dec	Oct-May	B
Manx Shearwater	<i>Puffinus puffinus</i>	-	?	Jan-Dec	Mar-Oct	B
Black-vented Shearwater	<i>Puffinus opisthomelas</i>	-	D?	Aug-Jan	Feb-Sep	B
Wilson's Storm-Petrel	<i>Oceanites oceanicus</i>	-	?	Jun-Nov	Oct-Feb	B
Fork-tailed Storm-Petrel	<i>Oceanodroma furcata</i>	-	S	Jan-Dec*	Apr-Sep	B
Leach's Storm-Petrel	<i>Oceanodroma leucorhoa</i>	-	D	Feb-Dec*	Mar-Sep	B
Ashy Storm-Petrel	<i>Oceanodroma homochroa</i>	SC	D	Feb-Nov	Apr-Oct	B
Black Storm-Petrel	<i>Oceanodroma melania</i>	-	?	Aug-Oct	Feb-Aug	B
Red-billed Tropicbird	<i>Phaethon aethereus</i>	-	?	Jun-Oct	Mar-Sep	F
Red-tailed Tropicbird	<i>Phaethon rubricauda</i>	-	?	Jun-Oct	Mar-Oct	F
Masked Booby	<i>Sula dactylatra</i>	-	?	Aug	Mar-Nov	F
Brown Booby	<i>Sula leucogaster</i>	-	I	May-Nov	Mar-Oct	F
Red-footed Booby	<i>Sula sula</i>	-	?	Aug-Oct	Mar-Oct	F
Brown Pelican	<i>Pelecanus occidentalis</i>	E	D	Jul-Dec	Feb-Jun	B
American White Pelican	<i>Pelecanus erythrorhynchos</i>	-	D?	Jul-Jan	Mar-Oct	F

Common Name	Scientific Name	Federal Status	Population Trend	Seasonal Use of ROI	Breeding Season	Sanctuary
Brandt's						
Cormorant	<i>Phalacrocorax penicillatus</i>	-	S	Jan-Dec*	Mar-Sep	B
Double-crested						
Cormorant	<i>Phalacrocorax auritus</i>	-	I	Jan-Dec*	Feb-Jul	B
Pelagic Cormorant	<i>Phalacrocorax pelagicus</i>	-	S	Jan-Dec*	Feb-Aug	B
Magnificent						
Frigatebird	<i>Fregata magnificens</i>	-	?	Jun-Oct	Feb-Sep	B
Great Frigatebird	<i>Fregata minor</i>	-	?	Mar	Feb-Sep	F
American Bittern	<i>Botaurus lentiginosus</i>	SC	D?	Oct-Mar	Apr-Sep	F
Great Blue Heron	<i>Ardea herodias</i>	-	S	Jan-Dec*	Mar-Sep	F
Great Egret	<i>Ardea alba</i>	-	S?	Jan-Dec*	Apr-Sep	F
Snowy Egret	<i>Egretta thula</i>	-	S?	Jan-Dec*	Apr-Sep	F
Green Heron	<i>Butorides virescens</i>	-	S?	Mar-Nov*	Apr-Sep	F
Black-crowned						
Night-Heron	<i>Nycticorax nycticorax</i>	-	S?	Jan-Dec*	Apr-Sep	F
Turkey Vulture	<i>Cathartes aura</i>	-	S?	Jan-Dec*	Mar-Oct	F
		D (B.c. <i>leucoparei</i>				
Canada Goose	<i>Branta canadensis</i>	a)	S	Jan-Dec*	Mar-Oct	F
Brant	<i>Branta bernicla</i>	-	S?	Nov-Mar	May-Sep	B
Gadwall	<i>Anas strepera</i>	-	S?	Aug-Apr*	Mar-Oct	F
Eurasian Wigeon	<i>Anas penelope</i>	-	I?	Oct-Mar	May-Sep	F
American Wigeon	<i>Anas americana</i>	-	S?	Aug-Mar	May-Sep	F
Mallard	<i>Anas platyrhynchos</i>	-	S?	Jan-Dec*	Mar-Oct	F
Blue-winged Teal	<i>Anas discors</i>	-	S?	May-Sep	Apr-Sep	F
Cinnamon Teal	<i>Anas cyanoptera</i>	-	S?	Feb-Nov*	Mar-Sep	F
Northern Shoveler	<i>Anas chryseata</i>	-	S?	Aug-Mar	May-Sep	F
Northern Pintail	<i>Anas acuta</i>	-	S	Aug-Mar	May-Sep	F
Green-winged Teal	<i>Anas crecca</i>	-	I	Sep-Mar	Apr-Sep	F
Greater Scaup	<i>Aythya marila</i>	-	S?	Oct-Apr	May-Sep	F
Lesser Scaup	<i>Aythya affinis</i>	-	S?	Oct-Apr	May-Sep	F
Harlequin Duck	<i>Histrionicus histrionicus</i>	SC	D	Aug-Apr	May-Sep	F
Surf Scoter	<i>Melanitta perspicillata</i>	-	D	Oct-Apr	May-Sep	B
White-winged						
Scoter	<i>Melanitta fusca</i>	-	D	Oct-Apr	May-Sep	F
Black Scoter	<i>Melanitta nigra</i>	-	S?	Oct-Apr	May-Sep	F
Oldsquaw	<i>Clangula hyemalis</i>	-	S?	Nov-Mar	May-Sep	F
Bufflehead	<i>Bucephala albeola</i>	-	D	Oct-Apr	May-Sep	F
Common						
Goldeneye	<i>Bucephala clangula</i>	-	D	Oct-Apr	May-Sep	F
Red-breasted						
Merganser	<i>Mergus serrator</i>	-	D	Oct-Apr	May-Sep	F
Ruddy Duck	<i>Oxyura jamaicensis</i>	-	D?	Jan-Dec*	Feb-Sep	F
Osprey	<i>Pandion haliaetus</i>	-	S?	Mar-Nov*	Mar-Sep	F
Bald Eagle	<i>Haliaeetus leucocephalus</i>	D	I?	Dec-Feb	Feb-Oct	F
Northern Harrier	<i>Circus cyaneus</i>	-	I?	Sep-Apr	Apr-Oct	F
Merlin	<i>Falco columbarius</i>	-	I	Sep-Apr	May-Sep	F
Peregrine Falcon	<i>Falco peregrinus</i>	D	I	Jan-Dec*	Mar-Oct	F
Black Rail	<i>Laterallus jamaicensis</i>	C	D?	Jan-Dec*	Mar-Sep	F
Virginia Rail	<i>Rallus limicola</i>	-	S?	Mar-Nov*	Mar-Sep	F
Yellow Rail	<i>Coturnicops noveboracensis</i>	-	S?	Oct-Mar	May-Sep	F
Sora	<i>Porzana carolina</i>	-	S?	Apr-Oct*	Apr-Sep	F
American Coot	<i>Fulica americana</i>	-	S?	Jan-Dec*	Apr-Oct	F
Black-bellied						
Plover	<i>Pluvialis squatarola</i>	-	D	Aug-May	May-Aug	F

Common Name	Scientific Name	Federal Status	Population Trend	Seasonal Use of ROI	Breeding Season	Sanctuary
Snowy Plover Semipalmated	<i>Charadrius alexandrinus</i>	T	D	Jan-Dec*	Mar-Sep	F
Plover	<i>Charadrius semipalmatus</i>	-	I	May-Sep	May-Aug	F
Killdeer	<i>Charadrius vociferus</i>	-	D	Jan-Dec*	Mar-Sep	F
Black						
Oystercatcher	<i>Haematopus bachmani</i>	SC	S	Jan-Dec*	Apr-Sep	F
American Avocet	<i>Recurvirostra americana</i>	-	S?	Aug-Apr	Apr-Sep	F
Greater Yellowlegs	<i>Tringa melanoleuca</i>	-	S?	Aug-Apr	May-Aug	F
	<i>Catoptrophorus</i>					
Willet	<i>semipalmatus</i>	-	D	Aug-Apr	Apr-Sep	F
Wandering Tattler	<i>Heteroscelus incanus</i>	-	D	Sep-Mar	May-Aug	F
Spotted Sandpiper	<i>Actitis macularia</i>	-	S	Aug-Apr	Apr-Sep	F
Whimbrel	<i>Numenius phaeopus</i>	SC	S?	Aug-May	May-Aug	F
Long-billed Curlew	<i>Numenius americanus</i>	SC	S?	Jul-Apr	Apr-Sep	F
Marbled Godwit	<i>Limosa jedgea</i>	SC	S	Aug-Apr	May-Aug	F
Ruddy Turnstone	<i>Arenaria interpres</i>	-	D	Aug-May	May-Aug	F
Black Turnstone	<i>Arenaria melanocephala</i>	SC	S?	Jul-May	May-Aug	F
Surfbird	<i>Aphriza virgata</i>	-	D	Sep-Apr	May-Aug	F
Red Knot	<i>Calidris canutus</i>	SC	S?	May-Sep	May-Aug	F
Sanderling	<i>Calidris alba</i>	-	S	Aug-Apr	May-Aug	F
Western Sandpiper	<i>Calidris mauri</i>	-	I	Jul-Apr	May-Aug	F
Least Sandpiper	<i>Calidris minutilla</i>	-	I	Jul-Apr	May-Sep	F
Rock Sandpiper	<i>Calidris ptilocnemis</i>	-	D?	Oct-Mar	May-Aug	F
Dunlin	<i>Calidris alpina</i>	-	S	Sep-Apr	May-Sep	F
Short-billed						
Dowitcher	<i>Limnodromus griseus</i>	-	I	Jul-Apr	May-Aug	F
Long-billed						
Dowitcher	<i>Limnodromus scolopaceus</i>	-	I	Sep-Apr	May-Aug	F
Common Snipe	<i>Gallinago gallinago</i>	-	S	Aug-Mar	Apr-Sep	F
Red-necked						
Phalarope	<i>Phalaropus lobatus</i>	-	S	May-Oct	May-Aug	B
Red Phalarope	<i>Phalaropus fulicaria</i>	-	S	Aug-Apr	May-Aug	B
South Polar Skua	<i>Catharacta maccormicki</i>	-	I?	May-Nov	Sep-Apr	B
Pomarine Jaeger	<i>Stercorarius pomarinus</i>	-	I	Feb-Nov	Apr-Sep	B
Parasitic Jaeger	<i>Stercorarius parasiticus</i>	-	S?	Mar-Oct	May-Aug	B
Long-tailed Jaeger	<i>Stercorarius longicaudus</i>	-	I?	May-Oct	May-Sep	B
Bonaparte's Gull	<i>Larus philadelphia</i>	-	S	Oct-Apr	Apr-Aug	B
Heermann's Gull	<i>Larus heermanni</i>	-	S	May-Dec	Feb-Jun	B
Mew Gull	<i>Larus canus</i>	-	D	Oct-Mar	May-Aug	B
Ring-billed Gull	<i>Larus delawarensis</i>	-	S?	Jan-Dec*	Apr-Aug	F
California Gull	<i>Larus californicus</i>	-	S	Jan-Dec*	Apr-Aug	B
Herring Gull	<i>Larus argentatus</i>	-	I	Oct-Mar	Apr-Aug	B
Thayer's Gull	<i>Larus thayeri</i>	-	I?	Oct-Apr	May-Aug	B
Western Gull	<i>Larus occidentalis</i>	-	D	Jan-Dec*	Apr-Aug	B
Glaucous-winged						
Gull	<i>Larus glaucescens</i>	-	I	Oct-Apr	May-Aug	B
Glaucous Gull	<i>Larus hyperboreus</i>	-	S?	Nov-Feb	May-Aug	B
Sabine's Gull	<i>Xema sabini</i>	-	I	May-Nov	May-Aug	B
Swallow-tailed Gull	<i>Creagrurus furcatus</i>	-	?	Jun	Oct-Mar	F
Black-legged						
Kittiwake	<i>Rissa tridactyla</i>	-	S	Oct-Mar	May-Aug	B
Caspian Tern	<i>Sterna caspia</i>	-	I?	Mar-Oct*	Apr-Sep	B
Elegant Tern	<i>Sterna elegans</i>	-	I?	Jul-Nov*	Feb-Jun	B
Common Tern	<i>Sterna hirundo</i>	-	D?	May-Sep	May-Sep	B
Arctic Tern	<i>Sterna paradisaea</i>	-	S?	May-Sep	May-Aug	B

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Forster's Tern	<i>Sterna forsteri</i>	-	S?	Jan-Dec*	Apr-Sep	B
Common Murre	<i>Uria aalge</i>	-	I	Jan-Dec*	Mar-Jul	B
Thick-billed Murre	<i>Uria lomvia</i>	-	?	Nov-Mar	Apr-Aug	F
Pigeon Guillemot	<i>Cepphus columba</i>	-	S	Mar-Sep*	May-Sep	B
Marbled Murrelet	<i>Brachyramphus marmoratus</i>	T	S	Jan-Dec*	Apr-Sep	B
Long-billed Murrelet	<i>Brachyramphus perdix</i>	-	S?	Dec	Apr-Sep	F
Xantus's Murrelet	<i>Synthliboramphus hypoleucus</i>	SC	D?	Jun-Nov	Feb-Jul	B
Craver's Murrelet	<i>Synthliboramphus craveri</i>	-	D?	Jul-Oct	Feb-Jul	B
Ancient Murrelet	<i>Synthliboramphus antiquus</i>	-	S	Oct-Apr	Mar-Aug	B
Cassin's Auklet	<i>Ptychoramphus aleuticus</i>	SC	D	Jan-Dec*	Mar-Sep	B
Parakeet Auklet	<i>Aethia psittacula</i>	-	D	Nov-Feb	May-Aug	B
Least Auklet	<i>Aethia pusilla</i>	-	D?	Jul	May-Aug	F
Crested Auklet	<i>Aethia cristatella</i>	-	D?	Jun	May-Aug	F
Rhinoceros Auklet	<i>Cerorhinca monocerata</i>	-	I	Jan-Dec*	Mar-Sep	B
Horned Puffin	<i>Fratercula corniculata</i>	-	I?	Nov-May	May-Aug	B
Tufted Puffin	<i>Fratercula cirrhata</i>	-	S	Mar-Sep*	Apr-Aug	B
Short-eared Owl	<i>Asio flammeus</i>	-	D?	Oct-Apr	May-Sep	F
Belted Kingfisher	<i>Ceryle alcyon</i>	-	D?	Jan-Dec*	Apr-Aug	F
Black Phoebe	<i>Sayornis nigricans</i>	-	I	Jan-Dec*	Apr-Sep	F
Say's Phoebe	<i>Sayornis saya</i>	-	S	Sep-May	May-Aug	F
Common Raven	<i>Corvus corax</i>	-	I	Jan-Dec*	Apr-Aug	F
Horned Lark	<i>Eremophila alpestris</i>	-	S?	Jan-Dec*	Apr-Aug	F
Tree Swallow	<i>Tachycineta bicolor</i>	-	S?	Feb-Nov*	Apr-Aug	F
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	-	S?	Mar-Oct*	Apr-Aug	F
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	-	S?	Mar-Sep*	Apr-Sep	F
Barn Swallow	<i>Hirundo rustica</i>	-	S?	Mar-Oct*	Apr-Sep	F
Rock Wren	<i>Salpinctes obsoletus</i>	-	D	Jan-Dec*	Apr-Sep	F
Marsh Wren	<i>Cistothorus palustris</i>	-	S?	Jan-Dec*	Apr-Aug	F
American Pipit	<i>Anthus rubescens</i>	-	I	Oct-Apr	May-Sep	F
Yellow-rumped Warbler	<i>Dendroica coronata</i>	-	S	Sep-May	Apr-Aug	F
Savannah Sparrow	<i>Passerculus sandwichensis</i>	-	D	Jan-Dec*	Apr-Sep	F
Song Sparrow	<i>Melospiza melodia</i>	-	S?	Jan-Dec*	Mar-Aug	F
Swamp Sparrow	<i>Melospiza georgiana</i>	-	S?	Oct-Apr	May-Sep	F
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	-	S	Jan-Dec*	Apr-Aug	F
Western Meadowlark	<i>Sturnella neglecta</i>	-	D	Jan-Dec*	Apr-Aug	F
Mammals						
Blue Whale	<i>Balaenoptera musculus</i>	E	I	Apr-Nov	Nov-Feb	B
Fin Whale	<i>Balaenoptera physalus</i>	E	I	Apr-Oct	Nov-Feb	B
Sei Whale	<i>Balaenoptera borealis</i>	E	S?	Jun-Oct	Nov-Feb	B
Minke Whale	<i>Balaenoptera acutorostrata</i>	-	S?	Aug-Nov	Nov-Feb	B
Humpback Whale	<i>Megaptera novaeangliae</i>	E	I	Jul-Nov	Nov-Mar	B
Gray Whale	<i>Eschrichtius robustus</i>	D	S	Nov-May	Dec-Mar	B
Northern Right Whale	<i>Eubalaena glacialis</i>	E	I	Aug-Oct	Nov-Feb	B
Harbor Porpoise	<i>Phocoena phocoena</i>	-	D?	Jan-Dec*	May-Jul	B
Dall's Porpoise	<i>Phocoenoides dalli</i>	-	S?	Mar-Nov*	Jul-Sep	B

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Pacific White-sided Dolphin	<i>Lagenorhynchus obliquidens</i>	-	S?	Feb-Nov*	Jul-Oct	B
Northern Right Whale Dolphin	<i>Lissodelphis borealis</i>	-	S?	May-Nov*	Feb-Jul	B
Short-beaked Common Dolphin	<i>Delphinus delphis</i>	-	D?	Aug-Nov	Apr-Oct	F
Long-beaked Common Dolphin	<i>Delphinus capensis</i>	-	D?	Aug-Nov	Apr-Oct	B
Bottlenose Dolphin	<i>Tursiops truncatus</i>	-	S?	Aug-Oct	Apr-Oct	F
Striped Dolphin	<i>Stenella coeruleoalba</i>	-	S?	Aug-Oct	Jan-Dec	B
Spotted Dolphin	<i>Stenella attenuata</i>	-	D	Aug-Oct	Jan-Dec	F
Rough-toothed Dolphin	<i>Steno bredanensis</i>	-	S?	Sep	no data	F
Risso's Dolphin	<i>Grampus griseus</i>	-	S?	Mar-Nov*	no data	B
Killer Whale	<i>Orcinus orca</i>	-	S?	Feb-Nov*	Jan-Dec	B
Short-finned Pilot Whale	<i>Globicephala macrorhynchus</i>	-	S?	Mar-Jul	Jan-Dec	B
Sperm Whale	<i>Physeter macrocephalus</i>	E	I?	Aug-Oct	Nov-Mar	B
Pigmy Sperm Whale	<i>Kogia breviceps</i>	-	S?	Aug-Oct	Nov-Apr	B
Dwarf Sperm Whale	<i>Kogia simus</i>	-	S?	Feb	Nov-Mar	B
Cuvier's Beaked Whale	<i>Ziphius cavirostris</i>	-	S?	Aug-Oct	no data	B
Baird's Beaked Whale	<i>Berardius bairdii</i>	-	S?	May-Nov*	Dec-Jun	B
Hubb's Beaked Whale	<i>Mesoplodon calrhubbbsi</i>	-	S?	Mar	Apr-Aug	B
Blainsville's Beaked Whale	<i>Mesoplodon densirostris</i>	-	S?	Oct	no data	B
Steineger's Beaked Whale	<i>Mesoplodon stejnegeri</i>	-	S?	Jul-Nov	no data	F
Steller Sea Lion	<i>Eumetopius jubatus</i>	T	D	Jan-Dec*	Apr-Jul	B
California Sea Lion	<i>Zalophus californianus</i>	-	I	Jan-Dec*	Apr-Aug	B
Northern Fur Seal	<i>Callorhinus ursinus</i>	-	I	May-Oct*	Apr-Jul	B
Guadalupe Fur Seal	<i>Arctocephalus townsendi</i>	T	I	Aug-Nov	Feb-Jul	F
Northern Elephant Seal	<i>Mirounga angustirostris</i>	-	I	Jan-Dec*	Dec-Mar	B
Harbor Seal	<i>Phoca vitulina</i>	-	I	Jan-Dec*	Mar-Jun	B
Sea Otter	<i>Enhydra lutris</i>	T	D	Aug-Oct	May-Aug	F
River Otter	<i>Lontra canadensis</i>	-	I?	Jan-Dec*	May-Aug	F
		-				
Fish						
Pacific Hagfish	<i>Eptatretus stoutii</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific Lamprey	<i>Lampreta tridentata</i>	SC	S?	Jan-Dec	Feb-Oct	B
Western River Lamprey	<i>Lampetra ayersii</i>	-	S?	Jan-Dec	Feb-Oct	?
Sevengill Shark	<i>Notorynchus cepedianus</i>	-	S?	Jan-Dec	Feb-Oct	B
Sixgill Shark	<i>Hexanchus griseus</i>	-	S?	Jan-Dec	Feb-Oct	B
Spiny Dogfish	<i>Squalus acanthias</i>	-	D?	Jan-Dec	Feb-Oct	B
Pacific Sleeper Shark	<i>Somniosus pacificus</i>	-	S?	Jan-Dec	Feb-Oct	B
Prickly Shark	<i>Echinorhinus cookei</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific Angel Shark	<i>Squatina californica</i>	-	S?	Jan-Dec	Feb-Oct	F
Common Thresher	<i>Alopias vulpinus</i>	-	D?	Jan-Dec	Feb-Oct	F

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Basking Shark	<i>Cetorhinus maximus</i>	-	D?	Aug-Nov	Feb-Oct	F
Brown Catshark	<i>Apristurus brunneus</i>	-	S?	Jan-Dec	Feb-Oct	B
Longnose Catshark	<i>Apristurus kampa</i>	-	S?	Jan-Dec	Feb-Oct	B
Filetail Catshark	<i>Parmaturus xaniurus</i>	-	S?	Jan-Dec	Feb-Oct	B
White Shark	<i>Carcharodon carcharias</i>	-	I?	Jan-Dec	Mar-Jul	B
Shortfin Mako						
Shark	<i>Isurus oxyrinchus</i>	-	S?	Aug-Nov	Feb-Oct	B
Salmon Shark	<i>Lamna ditropis</i>	-	S?	Jan-Dec	Feb-Oct	B
Leopard Shark	<i>Triakis semifasciata</i>	-	D?	Jan-Dec	Feb-Oct	F
Gray Smoothhound						
Shark	<i>Mustelus californicus</i>	-	S?	Jan-Dec	Feb-Oct	F
Brown Smoothhound						
Shark	<i>Mustelus henlei</i>	-	S?	Jan-Dec	Feb-Oct	B
Soupfin Shark	<i>Galeorhinus galeus</i>	-	D?	Jan-Dec	Feb-Oct	F
Blue Shark	<i>Prionace glauca</i>	-	D	Aug-Nov	Feb-Oct	F
Pacific Electric Ray	<i>Torpedo californica</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific Thornback	<i>Platyrrhinoidis triseriata</i>	-	S?	Jan-Dec	Feb-Oct	F
Shovelnose						
Guitarfish	<i>Rhinobatos productus</i>	-	S?	Jan-Dec	Feb-Oct	F
Sandpaper Skate	<i>Bathyraja kincaidii</i>	-	S?	Jan-Dec	Feb-Oct	B
Black Skate	<i>Bathyraja trachura</i>	-	S?	Jan-Dec	Feb-Oct	B
Big Skate	<i>Raja binoculata</i>	-	S?	Jan-Dec	Feb-Oct	B
California Skate	<i>Raja inornata</i>	-	S?	Jan-Dec	Feb-Oct	B
Longnose Skate	<i>Raja rhina</i>	-	S?	Jan-Dec	Feb-Oct	B
Starry Skate	<i>Raja stellulata</i>	-	S?	Jan-Dec	Feb-Oct	B
White Skate	<i>Bathyraja spinosissima</i>	-	S?	Jan-Dec	Feb-Oct	B
Deepsea Skate	<i>Bathyraja abyssicola</i>	-	S?	Jan-Dec	Feb-Oct	B
Bering Skate	<i>Bathyraja interrupta</i>	-	S?	Jan-Dec	Feb-Oct	B
Alaska Skate	<i>Bathyraja parmifera</i>	-	S?	Jan-Dec	Feb-Oct	F
Manta	<i>Manta birostris</i>	-	S?	Jan-Dec	Feb-Oct	?
Bat Ray	<i>Myliobatis californica</i>	-	S?	Jan-Dec	Feb-Oct	F
Round Stingray	<i>Urolophus halleri</i>	-	S?	Jan-Dec	Feb-Oct	?
Diamond Stingray	<i>Dasyatis dipterura</i>	-	S?	Jan-Dec	Feb-Oct	?
Pelagic Stingray	<i>Dasyatis violacea</i>	-	S?	Jan-Dec	Feb-Oct	F
Pacific Ratfish	<i>Hydrolagus collieri</i>	-	S?	Jan-Dec	Feb-Oct	B
Green Sturgeon	<i>Acipenser medirostris</i>	C	S?	Jan-Dec	Feb-Oct	B
White Sturgeon	<i>Acipenser transmontanus</i>	E	S?	Jan-Dec	Feb-Oct	B
Bonefish	<i>Albula vulpes</i>	-	S?	Jan-Dec	Feb-Oct	?
Yellow Snake Eel	<i>Ophichthus zapbochir</i>	-	S?	Jan-Dec	Feb-Oct	?
Spotted Snake Eel	<i>Ophichthus triserialis</i>	-	S?	Jan-Dec	Feb-Oct	?
Threadfin Shad	<i>Dorosoma petense</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific Herring	<i>Clupea pallasii</i>	-	S?	Nov-Mar	Feb-Oct	B
Pacific Sardine	<i>Sardinops sagax</i>	-	I	Jan-Dec	Feb-Oct	B
American Shad	<i>Alosa sapidissima</i>	-	S?	Jan-Dec	Feb-Oct	B
Northern Anchovy	<i>Engraulis mordax</i>	-	S	Jun-Nov	Feb-Oct	B
Rainbow (Steelhead) Trout	<i>Oncorhynchus mykiss</i>	E & T regional	D	Jan-Dec	Feb-Oct	B
Chum Salmon	<i>Oncorhynchus keta</i>	T	D	Jan-Dec	Feb-Oct	?
Sockeye Salmon	<i>Oncorhynchus nerka</i>	-	D	Jan-Dec	Feb-Oct	?
Pink Salmon	<i>Oncorhynchus gorbuscha</i>	-	D	Jan-Dec	Feb-Oct	?
Chinook Salmon	<i>Oncorhynchus tshawytscha</i>	E & T regional	D	Jan-Dec	Feb-Oct	B

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Coho (Silver) Salmon	<i>Oncorhynchus kisutch</i>	T	D	Jan-Dec	Feb-Oct	B
Longnose Lancetfish	<i>Alepisaurus ferox</i>	-	S?	Jan-Dec	Feb-Oct	B
California Slickhead	<i>Alepocephalus tenebrosus</i>	-	S?	Jan-Dec	Feb-Oct	B
Slender Snipe Eel	<i>Nemichthys scolopaceus</i>	-	S?	Jan-Dec	Feb-Oct	B
Threadfin Slickhead	<i>Talismania bifurcata</i>	-	S?	Jan-Dec	Feb-Oct	B
Sawtooth Snipe Eel	<i>Serrivomer sector</i>	-	S?	Jan-Dec	Feb-Oct	F
Bobtail Snipe Eel	<i>Cyema atrum</i>	-	S?	Jan-Dec	Feb-Oct	?
Surf Smelt	<i>Hypomesus pretiosus</i>	-	S?	Jan-Dec	Feb-Oct	B
Whitebait Smelt	<i>Allosmerus elongatus</i>	-	S?	Jan-Dec	Feb-Oct	B
Night Smelt	<i>Spirinchus starksi</i>	-	S?	Jan-Dec	Feb-Oct	B
Longfin Smelt	<i>Spirinchus thaleichthys</i>	SC	S?	Jan-Dec	Feb-Oct	F
Benttooth Bristlemouth	<i>Cyclothone acclinidens</i>	-	S?	Jan-Dec	Feb-Oct	B
Bigeye Lightfish	<i>Daphnos oculus</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific Argentine California	<i>Argentina sialis</i>	-	S?	Jan-Dec	Feb-Oct	B
Smoothtongue	<i>Leoroglossus stilbins</i>	-	S?	Jan-Dec	Feb-Oct	F
Snubnose Blacksmelt	<i>Bathylagus wesethi</i>	-	S?	Jan-Dec	Feb-Oct	?
Popeye Blacksmelt	<i>Bathylagus ochotensis</i>	-	S?	Jan-Dec	Feb-Oct	?
Robust Blacksmelt	<i>Bathylagus milleri</i>	-	S?	Jan-Dec	Feb-Oct	F
Pacific Blacksmelt	<i>Bathylagus pacificus</i>	-	S?	Jan-Dec	Feb-Oct	B
Dollar Hatchetfish	<i>Sternoptyx sp.</i>	-	S?	Jan-Dec	Feb-Oct	?
Spurred Hatchetfish	<i>Argyropelecus hemigymnus</i>	-	S?	Jan-Dec	Feb-Oct	?
Silvery Hatchetfish	<i>Argyropelecus sladeni</i>	-	S?	Jan-Dec	Feb-Oct	B
Silver Hatchetfish	<i>Argyropelecus lychnus</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific Barreleye	<i>Macropinna microstoma</i>	-	S?	Jan-Dec	Feb-Oct	?
Highfin Dragonfish	<i>Batbobphilus flemingi</i>	-	S?	Jan-Dec	Feb-Oct	?
Longfin Dragonfish	<i>Tactostoma macropus</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific Viperfish	<i>Chauliodus macouni</i>	-	S?	Jan-Dec	Feb-Oct	B
Daggertooth	<i>Anotopterus pharao</i>	-	S?	Jan-Dec	Feb-Oct	?
Slender Barricudina	<i>Lestidium ringens</i>	-	S?	Jan-Dec	Feb-Oct	F
Northern Pearleye	<i>Benthalbella dentata</i>	-	S?	Jan-Dec	Feb-Oct	?
California Lizardfish	<i>Synodus lucioceps</i>	-	S?	Jan-Dec	Feb-Oct	F
Shiny Loosejaw	<i>Aristostomias scintillans</i>	-	S?	Jan-Dec	Feb-Oct	?
Scaly Paperbone	<i>Scopelosaurus barryi</i>	-	S?	Jan-Dec	Feb-Oct	?
California Flashlightfish	<i>Protomyctophum crockeri</i>	-	S?	Jan-Dec	Feb-Oct	B
Northern Lampfish	<i>Stenobrachius leucopsaurus</i>	-	S?	Jan-Dec	Feb-Oct	B
Blue Lanternfish	<i>Tarletonbaenia crenularis</i>	-	S?	Jan-Dec	Feb-Oct	B
Mexican Lampfish	<i>Triphturus mexicanus</i>	-	S?	Jan-Dec	Feb-Oct	F
Broadfin Lampfish	<i>Lamppanyctus ritteri</i>	-	S?	Jan-Dec	Feb-Oct	B
Plainfin Midshipman	<i>Porichthys notatus</i>	-	S?	Jan-Dec	Feb-Oct	B
Spotted Cusk Eel	<i>Chilara taylora</i>	-	S?	Jan-Dec	Feb-Oct	B
Basketweave Cusk Eel	<i>Ophidion scrippsae</i>	-	S?	Jan-Dec	Feb-Oct	B
Red Brotula	<i>Brosomphycis marginata</i>	-	S?	Jan-Dec	Feb-Oct	F

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Northern Clingfish	<i>Gobiosox meandricus</i>	-	S?	Jan-Dec	Feb-Oct	F
Kelp Clingfish	<i>Rimicola muscarum</i>	-	S?	Jan-Dec	Feb-Oct	?
California Grenadier	<i>Nezumia stelgidolepis</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific Grenadier	<i>Coryphaenoides acrolepis</i>	-	S?	Jan-Dec	Feb-Oct	B
Hundred Fathom Codling	<i>Physiculus rastrelliger</i>	-	S?	Jan-Dec	Feb-Oct	?
Finescale Codling	<i>Antimora microlepis</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific Hake	<i>Merluccius productus</i>	-	S?	Jan-Dec	Feb-Oct	B
Pacific Cod	<i>Gadus microcephalus</i>	-	D?	Jan-Dec	Feb-Oct	B
Pacific Tomcod	<i>Microgadus proximus</i>	-	S?	Jan-Dec	Feb-Oct	B
Walleye Pollock	<i>Theragra chalcogramma</i>	-	D?	Jan-Dec	Feb-Oct	B
Giant Grenadier	<i>Albatrossia pectoralis</i>	-	S?	Jan-Dec	Feb-Oct	B
Shoulderspot Grenadier	<i>Coelorinchus scaphopsis</i>	-	S?	Jan-Dec	Feb-Oct	B
Bearded Eelpout	<i>Lycinema barbatus</i>	-	S?	Jan-Dec	Feb-Oct	?
Black Eelpout	<i>Lycodes diapterus</i>	-	S?	Jan-Dec	Feb-Oct	B
Flatcheek Eelpout	<i>Embryx crotalina</i>	-	S?	Jan-Dec	Feb-Oct	?
Bigfin Eelpout	<i>Aprodon cortezianus</i>	-	S?	Jan-Dec	Feb-Oct	B
Blackbelly Eelpout	<i>Lycodopsis pacifica</i>	-	S?	Jan-Dec	Feb-Oct	B
Midwater Eelpout	<i>Melanostigma pammelas</i>	-	S?	Jan-Dec	Feb-Oct	F
Twoline Eelpout	<i>Bothrocara brunneum</i>	-	S?	Jan-Dec	Feb-Oct	B
Soft Eelpout	<i>Bothrocara molle</i>	-	S?	Jan-Dec	Feb-Oct	?
Blackmouth Eelpout	<i>Lycodapus fierasfer</i>	-	S?	Jan-Dec	Feb-Oct	?
Pallid Eelpout	<i>Lycodapus mandibularis</i>	-	S?	Jan-Dec	Feb-Oct	F
California Flyingfish	<i>Cypselurus californicus</i>	-	S?	Aug-Oct	Feb-Oct	F
Needlefish	<i>Strongylura exilis</i>	-	S?	Jan-Dec	Feb-Oct	F
Pacific Saury	<i>Cololabis saira</i>	-	S?	Jan-Dec	Feb-Oct	B
California Grunion	<i>Leuresthes tenuis</i>	-	S?	Jan-Dec	Feb-Oct	F
Jacksmelt	<i>Atherinopsis californiensis</i>	-	S?	Jan-Dec	Feb-Oct	F
Topsmelt	<i>Atherinops affinis</i>	-	S?	Jan-Dec	Feb-Oct	F
Opah	<i>Lampris regius</i>	-	S?	Aug-Oct	Feb-Oct	F
Flapjack Devilfish	<i>Opisthotenthis californiana</i>	-	S?	Jan-Dec	Feb-Oct	B
Fangtooth	<i>Anoplogaster cornuta</i>	-	S?	Jan-Dec	Feb-Oct	B
Veilfin	<i>Caristius macropus</i>	-	S?	Jan-Dec	Feb-Oct	?
Crested Bigscale	<i>Poromitra crassiceps</i>	-	S?	Jan-Dec	Feb-Oct	?
Twospine Bigscale	<i>Scopelogadus mizolepis</i>	-	S?	Jan-Dec	Feb-Oct	B
Highsnout Bigscale	<i>Melamphaes lugubris</i>	-	S?	Jan-Dec	Feb-Oct	F
King-of-the-salmon	<i>Trachipterus altivelis</i>	-	S?	Jan-Dec	Feb-Oct	?
Tubesnout	<i>Aulorhynchus flavidus</i>	-	S?	Jan-Dec	Feb-Oct	?
Threespine Stickleback	<i>Gasterosteus aculeatus</i>	-	S?	Jan-Dec	Feb-Oct	F
Kelp Pipefish	<i>Syngnathus californiensis</i>	-	S?	Jan-Dec	Feb-Oct	?
Bay Pipefish	<i>Syngnathus leptorhynchus</i>	-	S?	Jan-Dec	Feb-Oct	B
Snubnose Pipefish	<i>Syngnathus arctus</i>	-	S?	Jan-Dec	Feb-Oct	F
Shortspine Thornyhead	<i>Sebastolobus alascanus</i>	-	S?	Jan-Dec	Feb-Oct	B
Longspine Thornyhead	<i>Sebastolobus altivelis</i>	-	S?	Jan-Dec	Feb-Oct	B
Copper Rockfish	<i>Sebastes caurinus</i>	-	D?	Jan-Dec	Feb-Oct	B

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Whitebelly Rockfish	<i>Sebastes vexilaris</i>	-	D?	Jan-Dec	Feb-Oct	?
Calico Rockfish	<i>Sebastes dallii</i>	-	D?	Jan-Dec	Feb-Oct	B
Silvergray Rockfish	<i>Sebastes brevispinis</i>	-	S?	Jan-Dec	Feb-Oct	B
Treefish	<i>Sebastes serriceps</i>	-	S?	Jan-Dec	Feb-Oct	F
China Rockfish	<i>Sebastes nebulosus</i>	-	D?	Jan-Dec	Feb-Oct	B
Black and Yellow Rockfish	<i>Sebastes chrysomelas</i>	-	D?	Jan-Dec	Feb-Oct	F
Gopher Rockfish	<i>Sebastes carnatus</i>	-	D?	Jan-Dec	Feb-Oct	B
Brown Rockfish	<i>Sebastes auriculatus</i>	-	D?	Jan-Dec	Feb-Oct	B
Quillback Rockfish	<i>Sebastes maliger</i>	-	D?	Jan-Dec	Feb-Oct	B
Grass Rockfish	<i>Sebastes rastrelliger</i>	-	S?	Jan-Dec	Feb-Oct	F
Kelp Rockfish	<i>Sebastes atrovirens</i>	-	S?	Jan-Dec	Feb-Oct	F
Black Rockfish	<i>Sebastes melanops</i>	-	D?	Jan-Dec	Feb-Oct	B
Blue Rockfish	<i>Sebastes mystinus</i>	-	D?	Jan-Dec	Feb-Oct	F
Squarespot Rockfish	<i>Sebastes hopkinsi</i>	-	S?	Jan-Dec	Feb-Oct	B
Speckled Rockfish	<i>Sebastes ovalis</i>	-	D?	Jan-Dec	Feb-Oct	B
Widow Rockfish	<i>Sebastes entomelas</i>	-	D?	Jan-Dec	Feb-Oct	B
Olive Rockfish	<i>Sebastes serranoides</i>	-	D?	Jan-Dec	Feb-Oct	B
Starry Rockfish	<i>Sebastes constellatus</i>	-	D?	Jan-Dec	Feb-Oct	B
Rosy Rockfish	<i>Sebastes rosaceus</i>	-	D?	Jan-Dec	Feb-Oct	F
Rosethorn Rockfish	<i>Sebastes behvamaculatus</i>	-	S?	Jan-Dec	Feb-Oct	B
Swordspine Rockfish	<i>Sebastes ensifer</i>	-	S?	Jan-Dec	Feb-Oct	B
Pink Rockfish	<i>Sebastes eos</i>	-	D?	Jan-Dec	Feb-Oct	B
Greenblotched Rockfish	<i>Sebastes rosenblatti</i>	-	D?	Jan-Dec	Feb-Oct	B
Shortbelly Rockfish	<i>Sebastes jordani</i>	-	D?	Jan-Dec	Feb-Oct	B
Flag Rockfish	<i>Sebastes rubrivinctus</i>	-	D?	Jan-Dec	Feb-Oct	B
Redbanded Rockfish	<i>Sebastes babcocki</i>	-	D?	Jan-Dec	Feb-Oct	B
Greenstriped Rockfish	<i>Sebastes elongatus</i>	-	D?	Jan-Dec	Feb-Oct	B
Bocaccio	<i>Sebastes paucispinis</i>	-	D	Jan-Dec	Feb-Oct	B
Chilipepper	<i>Sebastes goodei</i>	-	D	Jan-Dec	Feb-Oct	B
Cowcod	<i>Sebastes laevis</i>	-	D	Jan-Dec	Feb-Oct	B
Yelloweye Rockfish	<i>Sebastes ruberrimus</i>	-	D	Jan-Dec	Feb-Oct	B
Splitnose Rockfish	<i>Sebastes diploproa</i>	-	D?	Jan-Dec	Feb-Oct	B
Aurora Rockfish	<i>Sebastes aurora</i>	-	D?	Jan-Dec	Feb-Oct	B
Blackgill Rockfish	<i>Sebastes melanostomus</i>	-	D?	Jan-Dec	Feb-Oct	B
Redstripe Rockfish	<i>Sebastes proriger</i>	-	S?	Jan-Dec	Feb-Oct	B
Bank Rockfish	<i>Sebastes rufus</i>	-	D?	Jan-Dec	Feb-Oct	B
Pacific Ocean Perch	<i>Sebastes alutus</i>	-	D?	Jan-Dec	Feb-Oct	B
Canary Rockfish	<i>Sebastes pinniger</i>	-	D?	Jan-Dec	Feb-Oct	B
Vermilion Rockfish	<i>Sebastes miniatus</i>	-	D?	Jan-Dec	Feb-Oct	B
Darkblotched Rockfish	<i>Sebastes crameri</i>	-	S?	Jan-Dec	Feb-Oct	B
Stripetail Rockfish	<i>Sebastes saxicola</i>	-	D?	Jan-Dec	Feb-Oct	B
Halfbanded Rockfish	<i>Sebastes semicinctus</i>	-	D?	Jan-Dec	Feb-Oct	B
Sharpchin Rockfish	<i>Sebastes zacentrus</i>	-	S?	Jan-Dec	Feb-Oct	B
Pygmy Rockfish	<i>Sebastes wilsoni</i>	-	S?	Jan-Dec	Feb-Oct	F

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Lumptail Searobin	<i>Prionotus stephanophrys</i>	-	S?	Jan-Dec	Feb-Oct	?
Sablefish	<i>Anoplopoma fimbria</i>	-	S?	Jan-Dec	Feb-Oct	B
Skilfish	<i>Erilepis zonifer</i>	-	S?	Jan-Dec	Feb-Oct	?
Shortspine						
Combfish	<i>Zaniolepis frenata</i>	-	S?	Jan-Dec	Feb-Oct	B
Longspine						
Combfish	<i>Zaniolepis latipinnis</i>	-	S?	Jan-Dec	Feb-Oct	B
Painted Greenling	<i>Oxylebius pictus</i>	-	S?	Jan-Dec	Feb-Oct	F
Lingcod	<i>Ophiodon elongatus</i>	-	D	Jan-Dec	Feb-Oct	B
	<i>Pleurogrammus</i>					
Atka Mackerel	<i>monopterygius</i>	-	S?	Jan-Dec	Feb-Oct	B
	<i>Hexagrammos</i>					
Kelp Greenling	<i>decagrammus</i>	-	D?	Jan-Dec	Feb-Oct	F
Rock Greenling	<i>Hexagrammos superciliosus</i>	-	D?	Jan-Dec	Feb-Oct	F
	<i>Rhamphocottus</i>					
Grunt Sculpin	<i>richardsonii</i>	-	S?	Jan-Dec	Feb-Oct	B
Rosylip Sculpin	<i>Ascelichthys rhodorus</i>	-	S?	Jan-Dec	Feb-Oct	F
Manacled Sculpin	<i>Synchirus gilli</i>	-	S?	Jan-Dec	Feb-Oct	F
	<i>Scorpaenichthys</i>					
Cabezon Sculpin	<i>marmoratus</i>	-	D?	Jan-Dec	Feb-Oct	B
Longfin Sculpin	<i>Jordania zonope</i>	-	S?	Jan-Dec	Feb-Oct	F
Thornback Sculpin	<i>Paricelinus hoptiticus</i>	-	S?	Jan-Dec	Feb-Oct	B
Sailfin Sculpin	<i>Nautichthys oculofasciatus</i>	-	S?	Jan-Dec	Feb-Oct	B
Silverspotted						
Sculpin	<i>Belpsius cirrhosus</i>	-	S?	Jan-Dec	Feb-Oct	F
Brown Irishlord	<i>Hemilepidotus spinosus</i>	-	S?	Jan-Dec	Feb-Oct	F
	<i>Hemilepidotus</i>					
Red Irishlord	<i>hemilepidotus</i>	-	S?	Jan-Dec	Feb-Oct	B
Staghorn Sculpin	<i>Leptocottus armatus</i>	-	S?	Jan-Dec	Feb-Oct	B
Buffalo Sculpin	<i>Enophrys bison</i>	-	S?	Jan-Dec	Feb-Oct	F
Bull Sculpin	<i>Enophrys taurina</i>	-	S?	Jan-Dec	Feb-Oct	F
Yellowchin Sculpin	<i>Icelinus quadriseriatus</i>	-	S?	Jan-Dec	Feb-Oct	B
Frogmouth Sculpin	<i>Icelinus oculatus</i>	-	S?	Jan-Dec	Feb-Oct	B
Dusky Sculpin	<i>Icelinus burchami</i>	-	S?	Jan-Dec	Feb-Oct	B
Threadfin Sculpin	<i>Icelinus filamentosus</i>	-	S?	Jan-Dec	Feb-Oct	B
Spotfin Sculpin	<i>Icelinus tenuis</i>	-	S?	Jan-Dec	Feb-Oct	B
Roughback Sculpin	<i>Chitonotus pugetensis</i>	-	S?	Jan-Dec	Feb-Oct	F
Snubnose Sculpin	<i>Orthonopias triacis</i>	-	S?	Jan-Dec	Feb-Oct	F
Corraline Sculpin	<i>Artedius corallinus</i>	-	S?	Jan-Dec	Feb-Oct	F
Smoothhead						
Sculpin	<i>Artedius lateralis</i>	-	S?	Jan-Dec	Feb-Oct	F
Padded Sculpin	<i>Artedius fenestralis</i>	-	S?	Jan-Dec	Feb-Oct	F
Bonyhead Sculpin	<i>Artedius notospilotus</i>	-	S?	Jan-Dec	Feb-Oct	F
Puget Sound						
Sculpin	<i>Artedius meanyi</i>	-	S?	Jan-Dec	Feb-Oct	F
Scalyhead Sculpin	<i>Artedius barringtoni</i>	-	S?	Jan-Dec	Feb-Oct	F
Darter Sculpin	<i>Radulinus boleoides</i>	-	S?	Jan-Dec	Feb-Oct	B
Flabby Sculpin	<i>Zesticelus profundurum</i>	-	S?	Jan-Dec	Feb-Oct	?
Saddleback Sculpin	<i>Oligocottus rimensis</i>	-	S?	Jan-Dec	Feb-Oct	F
Tidepool Sculpin	<i>Oligocottus maculosus</i>	-	S?	Jan-Dec	Feb-Oct	F
Fluffy Sculpin	<i>Oligocottus snyderi</i>	-	S?	Jan-Dec	Feb-Oct	F
Rosy Sculpin	<i>Oligocottus rubellio</i>	-	S?	Jan-Dec	Feb-Oct	F
Wooly Sculpin	<i>Clinocottus analis</i>	-	S?	Jan-Dec	Feb-Oct	F
Sharpnose Sculpin	<i>Clinocottus acuticeps</i>	-	S?	Jan-Dec	Feb-Oct	F
Calico Sculpin	<i>Clinocottus embryum</i>	-	S?	Jan-Dec	Feb-Oct	F

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Mosshead Sculpin	<i>Clinocottus globiceps</i>	-	S?	Jan-Dec	Feb-Oct	F
Bald Sculpin	<i>Clinocottus recalvus</i>	-	S?	Jan-Dec	Feb-Oct	F
Blob Sculpin	<i>Psychrolutes phrictus</i>	-	S?	Jan-Dec	Feb-Oct	F
Rockhead Poacher	<i>Bothragonus swanii</i>	-	S?	Jan-Dec	Feb-Oct	F
Kelp Poacher	<i>Agonomalus sp.</i>	-	S?	Jan-Dec	Feb-Oct	?
Warty Poacher	<i>Ocella verrucosa</i>	-	S?	Jan-Dec	Feb-Oct	B
Pricklebreast Poacher	<i>Stellerina xyosterna</i>	-	S?	Jan-Dec	Feb-Oct	B
Beardless Spearnose Poacher	<i>Ganoides vulsus</i>	-	S?	Jan-Dec	Feb-Oct	?
Northern Spearnose Poacher	<i>Agonopsis emmelane</i>	-	S?	Jan-Dec	Feb-Oct	B
Smooth Alligatorfish	<i>Anoplagonus inermis</i>	-	S?	Jan-Dec	Feb-Oct	B
Pygmy Poacher	<i>Odontopyxis trispinosa</i>	-	S?	Jan-Dec	Feb-Oct	F
Blackfin Poacher	<i>Bathyagonus nigripinnis</i>	-	S?	Jan-Dec	Feb-Oct	B
Bigeye Starnose Poacher	<i>Asterotheca pentacantha</i>	-	S?	Jan-Dec	Feb-Oct	B
Bluespotted Poacher	<i>Xeneretmus triacanthus</i>	-	S?	Jan-Dec	Feb-Oct	B
Blackedge Poacher	<i>Xeneretmus latifrons</i>	-	S?	Jan-Dec	Feb-Oct	B
Blacktail Snailfish	<i>Careproctus melanurus</i>	-	S?	Jan-Dec	Feb-Oct	B
Showy Snailfish	<i>Liparis pulchellus</i>	-	S?	Jan-Dec	Feb-Oct	B
Slipskin Snailfish	<i>Liparis fuscensis</i>	-	S?	Jan-Dec	Feb-Oct	B
Ringtail Snailfish	<i>Liparis rutteri</i>	-	S?	Jan-Dec	Feb-Oct	B
Tidepool Snailfish	<i>Liparis florum</i>	-	S?	Jan-Dec	Feb-Oct	F
Slimy Snailfish	<i>Liparis mucosus</i>	-	S?	Jan-Dec	Feb-Oct	F
Blackfin Snailfish	<i>Careproctus cypselurus</i>	-	S?	Jan-Dec	Feb-Oct	B
Salmon Snailfish	<i>Careproctus rastrinus</i>	-	S?	Jan-Dec	Feb-Oct	F
Striped Bass	<i>Morone saxatilis</i>	-	S?	Jan-Dec	Feb-Oct	F
Giant Sea Bass	<i>Stereolepis gigas</i>	-	S?	Jan-Dec	Feb-Oct	F
Broomtail Grouper	<i>Mycteroperca xenarcha</i>	-	S?	Jan-Dec	Feb-Oct	F
Kelp Bass	<i>Paralabrax clathratus</i>	-	S?	Jan-Dec	Feb-Oct	F
Ocean Whitefish	<i>Caulotilus princeps</i>	-	D?	Jan-Dec	Feb-Oct	B
Whalesucker	<i>Remiligia australis</i>	-	S?	Jan-Dec	Feb-Oct	?
White Suckerfish	<i>Remorina albescens</i>	-	S?	Jan-Dec	Feb-Oct	?
Remora	<i>Remora remora</i>	-	S?	Jan-Dec	Feb-Oct	F
Jack Mackerel	<i>Trachurus symmetricus</i>	-	D?	Aug-Nov	Feb-Oct	F
Yellowtail	<i>Seriola lalandi</i>	-	D?	Jan-Dec	Feb-Oct	F
Dolphinfish	<i>Coryphaena hippurus</i>	-	D?	Aug-Oct	Feb-Oct	F
Pacific Pomfret	<i>Brama japonica</i>	-	S?	Jan-Dec	Feb-Oct	B
Queenfish	<i>Seriophus politus</i>	-	S?	Jan-Dec	Feb-Oct	F
White Seabass	<i>Atractoscion nobilis</i>	-	D?	Jan-Dec	Feb-Oct	B
White Croaker	<i>Genyonemus lineatus</i>	-	S?	Jan-Dec	Feb-Oct	B
Opaleye	<i>Girella nigricans</i>	-	S?	Jan-Dec	Feb-Oct	F
Halfmoon	<i>Medialuna californiensis</i>	-	S?	Jan-Dec	Feb-Oct	F
Pelagic Armorhead	<i>Pentaceros richardsoni</i>	-	S?	Jan-Dec	Feb-Oct	B
Rubberlip Surfperch	<i>Rhacochilus toxotes</i>	-	S?	Jan-Dec	Feb-Oct	F
Black Surfperch	<i>Embiotoca jacksoni</i>	-	S?	Jan-Dec	Feb-Oct	F
Barred Surfperch	<i>Amphistichus argenteus</i>	-	S?	Jan-Dec	Feb-Oct	F
Calico Surfperch	<i>Amphistichus koelzi</i>	-	S?	Jan-Dec	Feb-Oct	F
Redtail Surfperch	<i>Amphistichus rhodoterus</i>	-	S?	Jan-Dec	Feb-Oct	F
Spotfin Surfperch	<i>Hyperprosopon anale</i>	-	S?	Jan-Dec	Feb-Oct	B
Walleye Surfperch	<i>Hyperprosopon argenteum</i>	-	S?	Jan-Dec	Feb-Oct	F

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Silver Surfperch	<i>Hyperprosopon ellipticum</i>	-	S?	Jan-Dec	Feb-Oct	B
Shiner Surfperch	<i>Cymatogaster aggregata</i>	-	S?	Jan-Dec	Feb-Oct	B
Pink Surfperch	<i>Zalemnius rosaceus</i>	-	S?	Jan-Dec	Feb-Oct	B
Rainbow Surfperch	<i>Hypsurus caryi</i>	-	S?	Jan-Dec	Feb-Oct	F
Striped Surfperch	<i>Embiotoca lateralis</i>	-	S?	Jan-Dec	Feb-Oct	F
Kelp Surfperch	<i>Brachyistius frenatus</i>	-	S?	Jan-Dec	Feb-Oct	F
Dwarf Surfperch	<i>Micrometrus minimus</i>	-	S?	Jan-Dec	Feb-Oct	F
Reef Surfperch	<i>Micrometrus aurora</i>	-	S?	Jan-Dec	Feb-Oct	F
Pile Surfperch	<i>Damalichthys vacca</i>	-	S?	Jan-Dec	Feb-Oct	F
White Surfperch	<i>Phanerodon furcatus</i>	-	S?	Jan-Dec	Feb-Oct	F
Sharpnose Surfperch	<i>Phanerodon atripes</i>	-	S?	Jan-Dec	Feb-Oct	B
California Barracuda	<i>Sphyraena argentea</i>	-	S?	Jan-Dec	Feb-Oct	F
Sheephead	<i>Semicossyphus pulcher</i>	-	S?	Jan-Dec	Feb-Oct	?
Senorita	<i>Oxyjulis californica</i>	-	S?	Jan-Dec	Feb-Oct	F
Pacific Sandfish	<i>Trichodon trichodon</i>	-	S?	Jan-Dec	Feb-Oct	F
Stripefin Ronquil	<i>Rathbunella hypoplecta</i>	-	S?	Jan-Dec	Feb-Oct	B
Northern Ronquil	<i>Ronquilus jordani</i>	-	S?	Jan-Dec	Feb-Oct	B
Wolf Eel	<i>Anarrhichthys ocellatus</i>	-	D?	Jan-Dec	Feb-Oct	B
Onespot Fringehead	<i>Neoclinus uniornatus</i>	-	S?	Jan-Dec	Feb-Oct	F
Sarcastic Fringehead	<i>Neoclinus blanchardi</i>	-	S?	Jan-Dec	Feb-Oct	F
Giant Kelpfish	<i>Heterostichus rostratus</i>	-	S?	Jan-Dec	Feb-Oct	F
Striped Kelpfish	<i>Gibbonsia metzi</i>	-	S?	Jan-Dec	Feb-Oct	F
Crevice Kelpfish	<i>Gibbonsia montereyensis</i>	-	S?	Jan-Dec	Feb-Oct	F
Dwarf Wrymouth	<i>Lyconectes aleutensis</i>	-	S?	Jan-Dec	Feb-Oct	B
Monkeyface Eel	<i>Cebidichthys violaceus</i>	-	D?	Jan-Dec	Feb-Oct	F
High Cockscomb	<i>Anoplarchus purpureus</i>	-	S?	Jan-Dec	Feb-Oct	F
Black Prickleback	<i>Xiphister atropurpureus</i>	-	S?	Jan-Dec	Feb-Oct	F
Rock Prickleback	<i>Xiphister mucosus</i>	-	S?	Jan-Dec	Feb-Oct	F
Ribbon Prickleback	<i>Phytichthys chirus</i>	-	S?	Jan-Dec	Feb-Oct	F
Mosshead Warbonnet	<i>Chirolophis nugator</i>	-	S?	Jan-Dec	Feb-Oct	B
Whitebarred Prickleback	<i>Poroclinus rothrocki</i>	-	S?	Jan-Dec	Feb-Oct	B
Bluebarred Prickleback	<i>Plectrobranchius evides</i>	-	S?	Jan-Dec	Feb-Oct	B
Penpoint Gunnel	<i>Apodichthys flavidus</i>	-	S?	Jan-Dec	Feb-Oct	F
Rockweed Gunnel	<i>Xerorpes fucorum</i>	-	S?	Jan-Dec	Feb-Oct	F
Red Gunnel	<i>Pholis schultzi</i>	-	S?	Jan-Dec	Feb-Oct	F
Saddleback Gunnel	<i>Pholis ornata</i>	-	S?	Jan-Dec	Feb-Oct	F
Graveldiver	<i>Scytalina cerdale</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific Sand Lance	<i>Ammodytes hexapterus</i>	-	S?	Jan-Dec	Feb-Oct	F
Prowfish	<i>Zaprora silenus</i>	-	S?	Jan-Dec	Feb-Oct	F
Pacific Fat Sleeper	<i>Dormitator latofrons</i>	-	S?	Jan-Dec	Feb-Oct	?
Ragfish	<i>Icosteus aenigmaticus</i>	-	S?	Jan-Dec	Feb-Oct	B
Blackeye Goby	<i>Coryphopterus nicholsii</i>	-	S?	Jan-Dec	Feb-Oct	F
Tidewater Goby	<i>Eucyclogobius newberryi</i>	E	S?	Jan-Dec	Feb-Oct	F
Longjaw Mudsucker	<i>Gillichthys mirabilis</i>	-	S?	Jan-Dec	Feb-Oct	F
Bay Goby	<i>Lepidogobius lepidus</i>	-	S?	Jan-Dec	Feb-Oct	F
Yellowfin Goby	<i>Acanthogobius flavimanus</i>	-	S?	Jan-Dec	Feb-Oct	F

Common Name	Scientific Name	Federal Status	Population Trend	Seasonal Use of ROI	Breeding Season	Sanctuary
Cheekspot Goby	<i>Hypnus gilberti</i>	-	S?	Jan-Dec	Feb-Oct	F
Arrow Goby	<i>Clevelandia ios</i>	-	S?	Jan-Dec	Feb-Oct	F
Pacific Scabbardfish	<i>Lepidopus xantusi</i> <i>Lepidocybrium</i>	-	S?	Jan-Dec	Feb-Oct	B
Escolar	<i>flavobrunneum</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific Mackerel	<i>Scomber japonicus</i>	-	S?	Jan-Dec	Feb-Oct	B
Skipjack	<i>Euthynnus pelamis</i>	-	D?	Jan-Dec	Feb-Oct	B
Pacific Bonito	<i>Sarda chiliensis</i>	-	D?	Aug-Nov	Feb-Oct	F
Albacore	<i>Thunnus alalunga</i>	-	D?	Aug-Nov	Feb-Oct	B
Bigeye Tuna	<i>Thunnus obesus</i>	-	D?	Aug-Oct	Feb-Oct	F
Bluefin Tuna	<i>Thunnus thynnus</i>	-	D?	Aug-Nov	Feb-Oct	B
Swordfish	<i>Xiphias gladius</i>	-	D?	Aug-Oct	Feb-Oct	F
Shortbill Spearfish	<i>Tetrapturus angustirostris</i>	-	D?	Aug-Oct	Feb-Oct	?
Sailfish	<i>Istiophorus platypterus</i>	-	D?	Jan-Dec	Feb-Oct	F
Striped Marlin	<i>Tetrapturus audax</i>	-	D?	Jan-Dec	Feb-Oct	?
Louvar	<i>Lowarus imperialis</i>	-	S?	Jan-Dec	Feb-Oct	B
Medusafish	<i>Icichthys lockingtoni</i>	-	S?	Jan-Dec	Feb-Oct	B
Smalleye Squaretail	<i>Tetragonurus cuvieri</i>	-	S?	Jan-Dec	Feb-Oct	?
Pacific Pompano	<i>Peprilus simillimus</i>	-	D?	Jan-Dec	Feb-Oct	B
California Tonguefish	<i>Symphurus atricauda</i>	-	S?	Jan-Dec	Feb-Oct	B
California Halibut	<i>Paralichthys californicus</i>	-	D?	Jan-Dec	Feb-Oct	F
Pacific Halibut	<i>Hippoglossus stenolepis</i>	-	D?	Jan-Dec	Feb-Oct	B
Southern Rock Sole	<i>Lepidopsetta bilineata</i>	-	D?	Jan-Dec	Feb-Oct	B
Curlfin Turbot	<i>Pleuronichthys decurrens</i>	-	D?	Jan-Dec	Feb-Oct	B
Hornyhead Turbot	<i>Pleuronichthys verticalis</i>	-	D?	Jan-Dec	Feb-Oct	B
C-O Turbot	<i>Pleuronichthys coenosus</i>	-	D?	Jan-Dec	Feb-Oct	F
Sand Sole	<i>Psetticthys melanostictus</i>	-	D?	Jan-Dec	Feb-Oct	B
Diamond Turbot	<i>Hypopsetta guttulata</i>	-	D?	Jan-Dec	Feb-Oct	F
English Sole	<i>Parophrys vetulus</i>	-	D?	Jan-Dec	Feb-Oct	B
Butter Sole	<i>Isopsetta isolepis</i>	-	D?	Jan-Dec	Feb-Oct	B
Starry Flounder	<i>Platichthys stellatus</i>	-	D?	Jan-Dec	Feb-Oct	B
Pacific Sanddab	<i>Citharichthys sordidus</i>	-	D?	Jan-Dec	Feb-Oct	B
Speckled Sanddab	<i>Citharichthys stigmaeus</i>	-	D?	Jan-Dec	Feb-Oct	B
Rex Sole	<i>Glyptocephalus zachirus</i>	-	D?	Jan-Dec	Feb-Oct	B
Deepsea Sole	<i>Embassichthys bathybius</i> <i>Reinhardtius</i>	-	D?	Jan-Dec	Feb-Oct	B
Greenland Halibut	<i>hippoglossoides</i>	-	D?	Jan-Dec	Feb-Oct	B
Arrowtooth Flounder	<i>Atheresthes stomias</i>	-	D?	Jan-Dec	Feb-Oct	B
Dover Sole	<i>Microstomus pacificus</i>	-	D?	Jan-Dec	Feb-Oct	B
Slender Sole	<i>Lyopsetta exilis</i>	-	D?	Jan-Dec	Feb-Oct	B
Petrale Sole	<i>Eopsetta jordani</i>	-	D?	Jan-Dec	Feb-Oct	B
Finescale Triggerfish	<i>Balistes polylepis</i>	-	S?	Jan-Dec	Feb-Oct	?
Black Durgon	<i>Melichthys niger</i>	-	S?	Jan-Dec	Feb-Oct	?
Oceanic Pufferfish	<i>Lagocephalus lagocephalus</i>	-	S?	Aug-Oct	Feb-Oct	B
Spotted Porcupinefish	<i>Diodon hystrix</i>	-	S?	Aug-Oct	Feb-Oct	F
Balloonfish	<i>Diodon holocanthus</i>	-	S?	Jan-Dec	Feb-Oct	F
Common Mola	<i>Mola mola</i>	-	S?	Jun-Nov	Feb-Oct	B

Common Name	Scientific Name	Federal Status	Population Trend	Seasonal Use of ROI	Breeding Season	Sanctuary
Reptiles						
Green Sea Turtle Pacific (Olive) Ridley	<i>Chelonia mydas</i>	T	I?	Sep-Oct	May-Sep	F
Loggerhead Turtle	<i>Lepidochelys olivacea</i>	T	D	Sep-Oct	May-Sep	F
Hawksbill Turtle	<i>Caretta caretta</i>	T	D	Sep-Oct	May-Sep	?
Leatherback Turtle	<i>Eretmochelys imbricata</i>	E	D	Sep-Oct	May-Sep	?
	<i>Dermochelys coriacea</i>	E	D	Jun-Dec	May-Sep	B

Classification & Common Name	Scientific Name
Invertebrates	
Annelida	
	<i>Arabella iricolor</i>
	<i>Cheilonereis cyclurus</i>
	<i>Errantia spp.</i>
Polycheate	<i>Nereis guberi</i>
	<i>Phragmatopoma californica</i>
	<i>Phyllochaetopterus prolifica</i>
	<i>Platynereis bicanaliculata</i>
Tube worm	<i>Serpula vermicularis</i>
	<i>Spirorbis borealis</i>
	<i>Stylantbeca prophyra</i>
	<i>Terribellidae</i>
	<i>Thelepus crispus</i>
	<i>Typosyllis aciculata</i>
Arthropoda	
	<i>Acanthomysis sp.</i>
	<i>Achelia chelata</i>
	<i>Achelia nudiscula</i>
	<i>Achelia spinoseta</i>
	<i>Allorchestes anceps</i>
	<i>Alpheus dentipes</i>
	<i>Ammothea bigendorfi</i>
	<i>Amphiodia occidentalis</i>
	<i>Amphissa columbiana</i>
	<i>Amphissa versicolor</i>
	<i>Anatanais normani</i>
	<i>Balanus amphitrite</i>
Barnacle	<i>Balanus cariosus</i>
Barnacle	<i>Balanus glandula</i>
Barnacle	<i>Balanus nubilus</i>
	<i>Balanus sp.</i>
	<i>Cancer antennarius</i>
	<i>Cancer magister</i>
	<i>Cancer productus</i>
	<i>Caprella californica</i>
	<i>Chthamalus dalli</i>
	<i>Cirolana harfordi</i>
	<i>Elasmopus serricatus</i>
Krill	<i>Euphausia pacifica</i>
	<i>Exosphaeroma inornata</i>
	<i>Exosphaeroma rhomburum</i>
	<i>Fabia subquadrata</i>
	<i>Hemigrapsus nudus</i>
	<i>Hyale frequens</i>

Classification & Common Name	Scientific Name
	<i>Hyale grandicornis</i>
	<i>Ianiropsis kincaidi</i>
	<i>Idotea fewkesi</i>
	<i>Idotea resecata</i>
	<i>Idotea schmitti</i>
	<i>Idotea sp.</i>
	<i>Idotea stenops</i>
	<i>Idotea urotoma</i>
	<i>Idotea wosnesenskii</i>
	<i>Lecythorhynchus hilgendorfi</i>
	<i>Ligia occidentalis</i>
	<i>Ligia pallasii</i>
	<i>Limnoria algarum</i>
	<i>Littorophiloscia richardsonae</i>
Crab	<i>Lophopanopeus leucomanus</i>
	<i>Loxorhynchus crispatus</i>
	<i>Melita californica</i>
	<i>Metacaprella anomala</i>
	<i>Metacaprella kennerlyi</i>
	<i>Nymphopsis spinosissima</i>
	<i>Oedignathus inermis</i>
	<i>Oligobinus lighti</i>
Crab	<i>Pachycheles rudis</i>
	<i>Pachygrapsus crassipes</i>
	<i>Pachygrapsus nudus</i>
Hermit crab	<i>Pagurus granosimanus</i>
	<i>Pagurus hirsutiunculus</i>
	<i>Pagurus samuelensis</i>
	<i>Pagurus sp.</i>
	<i>Paracerceis cordata</i>
	<i>Paradynoides benedicti</i>
	<i>Parallorchestes ochotensis</i>
	<i>Paranthura elegans</i>
	<i>Paraxanthia taylorii</i>
	<i>Petrolisthes cinctipes</i>
	<i>Pinnixa franciscana</i>
	<i>Pollicipes polymerus</i>
	<i>Polycheria osborni</i>
Crab	<i>Porcellio americanus</i>
Crab	<i>Pugetia fragilissima</i>
Crab	<i>Pugettia gracilis</i>
Crab	<i>Pugettia producta</i>
Sea spider	<i>Pycnogonum rickettsi</i>
Sea spider	<i>Pycnogonum stearnsi</i>
Crab	<i>Scyra acutifrons</i>
Barnacle	<i>Semibalanus cariosus</i>
	<i>Semibalanus sp.</i>
Barnacle	<i>Tetraclita rubescens</i>
Krill	<i>Thysanoessa spinifera</i>

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
Chordata					
Tunicate	<i>Aplidium arenatum</i>				
Tunicate	<i>Aplidium californicum</i>	Co	Co	85m	Feb - Apr
Tunicate	<i>Cystodytes lobatus</i>	Co	Co	200m	

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
Tunicate	<i>Didemnum carnulentum</i> <i>Polyclinum planum</i>	Co	Co	30m	Mar-Jul?
Tunicate	<i>Pycnoclayella stanleyi</i>	Co	Co	10m	all yr
Tunicate	<i>Ritterella aequalisphonis</i>	Ab	Co		Jun-Aug
Cnidaria					
Fern hydroid	<i>Abietinaria</i> sp. <i>Aglaophenia inconspicua</i>	Co	Co		
Ostrich-plume hydroid	<i>Aglaophenia latirostris</i> <i>Aglaophenia</i> sp	Ab	Co	35m	
Aggregating anemone	<i>Anthopleura elegantissima</i>	Ab	Ab		Sep
Giant green anemone	<i>Anthopleura xanthogrammica</i> <i>Aurelia aurita</i>	Co	Co		Apr-Aug
Orange cup coral	<i>Balanophyllia elegans</i> <i>Corynactis californica</i>	Co	Co	10m	Dec?
Poliferating anemone	<i>Epiactis prolifera</i> <i>Eudendrium californicum</i> <i>Garveia annulata</i>	Co	Co		
White-plumed anemone	<i>Metridium senile</i> <i>Obelia</i> sp. <i>Sertularella turgida</i> <i>Sertularia</i> sp.	Ab Co	Co Co	120m 50m	Jul, Oct
Sea pen	<i>Stylatula elongata</i> <i>Tealia crassicornis</i> <i>Tealia lofotensis</i> <i>Tubularia crocea</i> <i>Urticina crassicornia</i> <i>Urticina lofotensis</i>	Co Co Co	Co Co Co	70m	Apr-Jun
Echinodermata					
	<i>Amphipholis squamata</i> <i>Asterina miniata</i>				
Sea cucumber	<i>Cucumaria curata</i>	rare	rare		
Sea cucumber	<i>Cucumaria pseudocurata</i>	Co	Co		
Leather star	<i>Dermasterias imbricata</i>	Co	Co	91m	Dec?
Blood star	<i>Henricia leviuscula</i> <i>Leptasterias aequalis</i>	Co	Co	400m	
6-rayed star	<i>Leptasterias hexactis</i> <i>Leptasterias pascilla</i> <i>Ophiopholis aculeata</i> <i>Ophioplocus papillosa</i>	Co	Co		Nov -Apr
Brittle star	<i>Ophiobrix spiculata</i>	Co	Co	2059 m	July?
Sea cucumber	<i>Parastichopus parvimensis</i>	UCo	Co	27m	
Bat star	<i>Patiria miniata</i> <i>Pisaster giganteus</i>	Co	Co	290m	May-Jul
Ochre star	<i>Pisaster ochraceus</i>	Ab	Co	88m	Apr-Jun
Sunflower star	<i>Pycnopodia helianthoides</i> <i>Strongylocentrotus droebachiensis</i>	Co	Co	435m	Dec-Jun
Red sea urchin	<i>Strongylocentrotus franciscanus</i>	Co	Uco	90m	Apr - May
Purple sea urchin	<i>Strongylocentrotus purpuratus</i>	Ab	Co	160m	Jan - Sept
Ectoprocta					
	<i>Barentsia benedeni</i> <i>Bugula californica</i> <i>Crisia maxima</i>				
Bryozoan	<i>Bugula californica</i> <i>Crisia maxima</i>	Ab	Co	60m	
Bryozoan	<i>Dendrobeania laxa</i> <i>Dendrobeania lichenoides</i> <i>Eurystomella bilabiata</i>	Ab	Ab	90m	

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
Bryozoan	<i>Flustrellidra corniculata</i> <i>Tricellaria occidentalis</i> <i>Tricellaria sp</i> <i>Tricellaria ternata</i>	Co	Co	75m	
Mollusca					
Angular unicorn	<i>Acanthina spirata</i> <i>Acanthina spp.</i> <i>Acanthodoris nanaimoensis</i> <i>Aclis shepardiana</i>	Co	Co		N/A
White capped limpet	<i>Acmaea mitra</i>	Co	Co		Dec-Jan
Shag-rug nudibranch	<i>Aeolidia papillosa</i>	Co	Co	760m	N/A
Nudibranch	<i>Alia carinata</i>				
Variegated amphissa	<i>Amphissa versicolor</i>	Co	Co	Inter	Jul
Sea lemon	<i>Anisodoris noblis</i> <i>Antiopella barbarensis</i>	Co	Co	35m	Nov - Mar?
Monterey dorid	<i>Archidoris montereyensis</i> <i>Balcis thersites</i> <i>Baptodoris mimetica</i>	Co	Co	50m	All yr
Snail	<i>Barleeia haliotiphila</i>				
Snail	<i>Barleeia subtenuis</i>				
Horn snail	<i>Batillaria attramentaria</i>	Co	Co		Mar - Jun
Threaded bittium	<i>Bittium eschrichtii</i> <i>Bittium purpureum</i> <i>Bittium schrichtii</i> <i>Cadlina luteomarginata</i>	Uco	Co		
Yellow-edged cadlina	<i>Cadlina modesta</i>	Co	Co		N/A
Channeled top snail	<i>Calliostoma canaliculatum</i>	Co	Co		
Blue top snail	<i>Calliostoma ligatum</i> <i>Ceratostoma foliatum</i> <i>Cerithiopsis carpenteri</i> <i>Chama arcana</i> <i>Collisella scabra</i> <i>Corolla spectabilis (Pteropod)</i>	Co	Co		
Pacific oyster	<i>Crassostrea gigas</i>	Co	Co		Jul-Aug
Hooked slipper snail	<i>Crepidula adunca</i> <i>Crepidula nummaria</i> <i>Crepidula perforans</i> <i>Crepidatella lingulata</i>	Co	Co		All yr
Gumboot chiton	<i>Cryptochiton stelleri</i> <i>Cryptomya californica</i> <i>Cymakra aspera</i> <i>Daphana californica</i> <i>Diaphana californica</i>	Rare	Co-Rare	Inter	Mar-May
Ring spotted dorid	<i>Diaulula sandiegensis</i> <i>Diplodonta orbella</i> <i>Discurria scutum</i> <i>Doto columbiana</i> <i>Entodesma saxicola</i>	Co	Co	35m	all yr
Snail	<i>Epitonium tinctum</i> <i>Fissurella volcano</i> <i>Fusinus luteopictus</i> <i>Granula margaritula</i>	Unco	Unco		N/A
Black Abalone	<i>Haliotis cracherodii</i>	UCo	Co	Inter	Jul - Sept
Red Abalone	<i>Haliotis rufescens</i>	Co	Uco	17m	All yr

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
Hermissenda	<i>Hermissenda crassicornis</i>	Co	Co	35m	All yr
	<i>Hiatella arctica</i>				
	<i>Hinnites giganteus</i>				
Hoof snail	<i>Hipponix craniodes</i>	Co	Co	inter	N/A
Hopkin's Rose	<i>Hopkinsia rosacea</i>	Co	Co	6m	N/A
	<i>Irus lamellifer</i>				
Chiton	<i>Ischnochiton regularis</i>				
Chiton	<i>Katbarina tunicata</i>				
	<i>Kellia laperousii</i>				
	<i>Lacuna cistula</i>				
Chink snail	<i>Lacuna marmorata</i>	Co	Co	Inter	N/A
	<i>Lacuna porrecta</i>				
	<i>Lacuna unifasciata</i>				
	<i>Lasaea cistula</i>				
Clam	<i>Lasaea subviridis</i>	Ab	Co	Inter	N/A
Chiton	<i>Lepidochitona dentiens</i>				
	<i>Lepidozona sinudentata</i>				
	<i>Littorina keanae</i>				
Eroded periwinkle	<i>Littorina planaxis</i>	Ab	Ab		Apr - Aug
Checkered periwinkle	<i>Littorina scutulata</i>	Ab	Ab		All yr
	<i>Littorina sitkana</i>				
	<i>Littorina sp.</i>				
	<i>Lottia asmi</i>				
Ribbed limpet	<i>Lottia digitalis</i>	Ab	Co		Apr, Jul
Owl limpet	<i>Lottia gigantea</i>	Ab	Co		Sept - Jan
Unstable seaweed limpet	<i>Lottia instabilis</i>				
File limpet	<i>Lottia limantula</i>	Co	Ab	Inter	N/A
Shield limpet	<i>Lottia pelta</i>	Co	Co		Sept
	<i>Lottia strigatella</i>				All yr
Triangular limpet	<i>Lottia triangularis</i>	Co	Co		N/A
Rough limpet	<i>Macclintockia scabra</i>	Ab	Co		Jan - Mar
	<i>Milneria minima</i>				
	<i>Mitrella carinata</i>				
	<i>Mitrella tuberosa</i>				
Fat horse mussel	<i>Modiolus capax</i>	Co	Co	50m	N/A
	<i>Modiolus carpenti</i>				
Hairy chiton	<i>Mopalia ciliata</i>				May, Sept - Nov
		Co	Co	Inter	
Mossy chiton	<i>Mopalia muscosa</i>				Apr, Sept - Nov
		Co	Co	Inter	
Pygmy mussel	<i>Musculus pygmaeus</i>	Ab	Co	Inter	All yr
	<i>Mytilimeria nuttallii</i>				
California mussel	<i>Mytilus californianus</i>	Ab	Ab	24m	July, Dec
Bay mussel	<i>Mytilus edulis</i>	Co	Co	40m	Nov - Jan
	<i>Nassarius mendicus</i>				
Limpet	<i>Notoacmea insessa</i>				
Limpet	<i>Notoacmea persona</i>				
Channeled dogwinkle	<i>Nucella canaliculata</i>	Ab	Co		Apr - Aug
Emarginate dogwinkle	<i>Nucella emarginata</i>	Ab	Co		Nov - Mar
Chiton	<i>Nuttallina californica</i>	Co	Co	Inter	N/A
	<i>Ocenebra atropurpurea</i>				
	<i>Ocenebra interfossa</i>				
	<i>Ocenebra lurida</i>				
	<i>Octopus dofleini</i>				

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
Olympic oyster	<i>Octopus rubescens</i>				
	<i>Octopus sp.</i>				
	<i>Odostomia sp.</i>				
	<i>Onchidella borealis</i>				
	<i>Opalia wroblevskyi</i>				
	<i>Ostrea lurida</i>	Rare	Rare-Co		Apr-Nov?
	<i>Palciophorella velatta</i>				
	<i>Penitella conradi</i>				
	<i>Penitella turnerae</i>				
Abalone jingle	<i>Petalococonchus montereyensis</i>				
	<i>Petricola carditoides</i>				
Red sponge nudibranch	<i>Philobrya setosa</i>				
	<i>Pododesmus cepio</i>	Co	Co		Jul-Aug
Dire welk	<i>Protothaca staminea</i>				
	<i>Rostanga pulchra</i>	Ab	Ab		all yr
Streaked stiliger	<i>Searlesia dira</i>	Co	Co		Feb -Mar?
	<i>Stenoplax beathiana</i>				
	<i>Stiliger fuscovittatus</i>	Ab	Ab		May - Jul
	<i>Tectura insessa</i>				
Brown turban snail	<i>Tectura persona</i>				
	<i>Tectura scutum</i>				
	<i>Tegula brunnea</i>	Ab	Ab		Aug?
Black turban snail	<i>Tegula funebris</i>	Ab	Co-Ab		Apr?
Lined chiton	<i>Tonicella lineata</i>	Ab	Co		Apr?
	<i>Transennella tantilla</i>				
Reticulate button snail	<i>Trimusculus reticulatus</i>	Co	Co	Inter	Apr
Sea-clown nudibranch	<i>Triopha catalinae</i>	Co	Co	35m	Apr - Jun?
	<i>Triopha maculata</i>				
	<i>Trivia californica</i>				
	<i>Velutina velutina</i>				
Nemertea					
	<i>Emplectonema gracile</i>				
	<i>Tubulanus sexlineatus</i>				
Porifera					
Sponge	<i>Acarnus erithacus</i>				
	<i>Allopora porphyra</i>				
Sponge	<i>Anaata spongigartina</i>				
	<i>Antho lithophoenix</i>				
Keratose sponge	<i>Aphysilla glacialis</i>	Ab	Ab		
	<i>Aphysilla polyraphis</i>				
Sponge	<i>Axocielita originalis</i>				
	<i>Clathria sp.</i>				
	<i>Cliona celata</i>				
Sponge	<i>Geodia mesotriaence</i>	Co	Co	370m	
Crumb-of-bread sponge	<i>Haliclondria panicea</i>	Ab	Ab	100m	
	<i>Haliclondria sp.</i>				
	<i>Haliclona permollis</i>				
Sponge	<i>Haliclona sp.</i>	Ab	Ab	50m	
	<i>Higginsia sp.</i>				
	<i>Hinksia sandriana</i>				
	<i>Hymedesmia sp.</i>				
	<i>Hymenambiasiastra cyanocrypta</i>				
	<i>Leucandra beathi</i>				
Sponge	<i>Leucilla nuttingi</i>				
Sponge	<i>Leucosolenia eleanor</i>				

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
Sponge	<i>Lissodendoryx firma</i>				
Sponge	<i>Lissodendoryx topsenti</i>				
Sponge	<i>Mycale psila</i>				
	<i>Mycilla incrustans</i>				
Sponge	<i>Ophlitaspongia pennata</i>	Ab	Co	2m	
	<i>Scypha sp.</i>				
	<i>Spongia idia</i>				
Sponge	<i>Stelletta clarella</i>				
Sponge	<i>Suberites sp.</i>				
Sponge	<i>Tedania gurjanovae</i>				
Sponge	<i>Tethya aurantia</i>	Co	Co	440m	
Sponge	<i>Toxidocia sp.</i>				
Sponge	<i>Xestospongia vanilla</i>				
Sponge	<i>Zygherpe hyaloderma</i>				
Sipuncula					
	<i>Phascolosoma agassizii</i>				
Urochordata					
	<i>Archidistoma ritteri</i>				
	<i>Styela montereyensis</i>	Co	Co	30m	Jun-Aug
	<i>Styela truncata</i>	Co	Co	20m	Jul - Aug?
Algae					
COMMON NAME & CLASSIFICATION	SCIENTIFIC NAME	POPEST (Sanctuary)	POPEST (N.E. Pacific)	HI	
CLOROPHYTA					
Moss-like algae	<i>Acrosiphonia coalita</i>				
	<i>Bryopsis corticulans</i>	Co	Co	S	
Pin cushion algae	<i>Cladophora columbiana</i>	Co	Ab	S	
	<i>Cladophora graminea</i>				
	<i>Cladophora sp.</i>				
Dead man's fingers	<i>Codium fragile</i>	UnCo	Co	S	
Sponge weed	<i>Codium setchellii</i>	UnCo	Co	S	
	<i>Derbesia marina</i>				
	<i>Endocladia viridis</i>				
	<i>Endophyton ramosum</i>				
	<i>Enteromorpha flexuosa</i>				
	<i>Enteromorpha clathrata</i>				
	<i>Enteromorpha compressa</i>				
Intestine algae	<i>Enteromorpha intestinalis</i>	Co	Co	S	
	<i>Halicystis ovalis</i>				
	<i>Prasiola meridionalis</i>				
	<i>Ulothrix flacca</i>				
	<i>Ulothrix laetevirens</i>				
	<i>Ulothrix pseudoflacca</i>				
	<i>Ulva californica</i>				
	<i>Ulva conglobata</i>				
	<i>Ulva expansa</i>				
	<i>Ulva lactuca</i>				
	<i>Ulva lobata</i>				
Sea lettuce	<i>Ulva spp.</i>	Co	Co	V	
	<i>Ulva taeniata</i>				
	<i>Urophora sp.</i>				

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
HETEROKONTOPHYTA					
Winged kelp	<i>Alaria marginata</i>	Ab	Ab	E	
Barefoot, Matsumo	<i>Analipus japonicus</i>	Co	Co	S	
	<i>Coilodesme californica</i>				
	<i>Colpomenia peregrina</i>				
	<i>Compsonema serpens</i>				
	<i>Costaria costata</i>				
Bladder chain	<i>Cystoseira osmundacea</i>	Ab	Co	V	
	<i>Desmarestia herbacea</i>				
Acid seaweed	<i>Desmarestia ligulata</i>	Ab	Ab	S	
	<i>Desmarestia munda</i>				
Nerve net	<i>Dictyonereis californicum</i>	Co	Co	S	
Feather Boa	<i>Egregia menziesii</i>	Ab	Co	V	
Rock weed	<i>Fucus gardneri</i>	Co	Ab	E	
	<i>Hincksia sandriana</i>				
	<i>Laminaria ephemera</i>				
	<i>Laminaria farlowii</i>				
Split blade oarweed/Kombu	<i>Laminaria setchellii</i>	Co	Co	E	
Oar weed/Kombu	<i>Laminaria sinclarii</i>	Ab	Ab	E	
	<i>Laminaria sp.</i>				
	<i>Leathesia difformis</i>				
	<i>Macrocystis integrifolia</i>				
Giant Kelp	<i>Macrocystis pyrifera</i>	UnCo	Co	E	
	<i>Melanosiphon intestinalis</i>				
Bull whip kelp	<i>Nereocystis luetkeana</i>	Co	Co	E	
Bull Kelp	<i>Nereocystis luetkeana</i>	Unco	Co	V	
Little rock weed	<i>Pelvetia fastigiata</i>	Co	Ab	V	
Tiny rock weed	<i>Pelvetiopsis limitata</i>	Co	Co	V	
	<i>Petalonia fascia</i>				
	<i>Phaeostrophion irregulare</i>				
	<i>Pilayella sp.</i>				
Sea palm	<i>Postelsia palmaeformis</i>	Co	Ab	E	
	<i>Pterygophora californica</i>				
Tar spot	<i>Ralfsia pacifica</i>	Co	Co	S	
	<i>Ralfsia sp.</i>				
	<i>Sargassum muticum</i>				
Leather tube	<i>Scytosiphon simplicissimus</i>	Co	Ab	S	
	<i>Scytosiphon dotyii</i>				
	<i>Scytosiphon lomentaria</i>				
	<i>Soranthra ulvoidea</i>				
	<i>Spongonema tomentosum</i>				
	<i>Streblonema sp.</i>				
RHODOPHYTA					
Dreadlock algae	<i>Acrochaetium prophyrae</i>	Ab	Ab	S	
Epiphytic algae	<i>Acrochaetium sp.</i>	Ab	Ab	S	
Garlic algae	<i>Abnfeltia cornucopiae</i>	Co	Co	S	
Mastocarpus crust	<i>Abnfeltia fastigiata</i>	Ab	Co	S	
	<i>Abnfeltiopsis leptophylla</i>				
	<i>Abnfeltiopsis linearis</i>				
Red membrane	<i>Anotrichium furcellatum</i>	Ab	Co	S	
	<i>Antithamnion dendroidum</i>				
	<i>Antithamnion densum</i>				
Tooth branch	<i>Audouinella subimmersa</i>	Co	Ab	S	

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
Braided hair algae	<i>Bangia sp.</i>	Co	Co	S	
	<i>Bornetia californica</i>				
	<i>Bossiella corymbifera</i>				
	<i>Bossiella dichotoma</i>				
	<i>Bossiella plumosa</i>				
	<i>Bossiella schmittii</i>				
	<i>Branchioglossum bipinnatifidum</i>				
	<i>Branchioglossum undulatum</i>				
	<i>Callithamnion biseriatum</i>				
	<i>Callophyllis cheilosporioides</i>				
	<i>Callophyllis crenulata</i>				
	<i>Callophyllis flabellulata</i>				
	<i>Callophyllis beanophylla</i>				
	<i>Callophyllis linearis</i>				
	<i>Callophyllis obtusifolia</i>				
	<i>Callophyllis pinnata</i>				
	<i>Callophyllis sp.</i>				
	<i>Callophyllis violacea</i>				
	<i>Centroceras clavulatum</i>				
	<i>Ceramium gardneri</i>				
	<i>Ceramium pacificum</i>				
	<i>Chiharaea bodegensis</i>				
	<i>Cirriliarpus sp.</i>				
	<i>Clathromorphum parcum</i>				
	<i>Constantinea simplex</i>				
	<i>Corallina officinalis</i>				
	<i>Corallina pinnatifolia</i>				
	<i>Crustose corallines</i>				
	<i>Cryptopleura farlowiana</i>				
	<i>Cryptopleura corallinara</i>				
	<i>Cryptopleura crista</i>				
	<i>Cryptopleura lobulifera</i>				
	<i>Cryptopleura rosacea</i>				
<i>Cryptopleura ruprechtiana</i>					
<i>Cumagloia andersonii</i>					
<i>Delesseria decipiens</i>					
<i>Dilsea californica</i>					
Beautifully jointed	<i>Endocladia muricata</i>	Ab	Co	S	
	<i>Erythrogllossum californicum</i>				
Wool weed	<i>Erythrophyllum delesseriodes</i>	Ab	Co	S	
	<i>Erythrotrichia carnea</i>				
	<i>Erythrotrichia pulvinata</i>				
	<i>Farlowia compressa</i>				
	<i>Farlowia conferta</i>				
	<i>Farlowia mollis</i>				
	<i>Fauchea fryeana</i>				
	<i>Fauchea laciniata</i>				
	<i>Faucheocolax attenuata</i>				
	Beautiful leaf	<i>Gastroclonium subarticulatum</i>	Co	Ab	S
<i>Gastroclonium subarticulatum</i>					
Candy cane seaweed	<i>Gelidium coulteri</i>	Co	Co	S	
Arrow weed	<i>Gelidium purpurascens</i>	Co	Co	S	
	<i>Gelidium pusillum</i>				
	<i>Gelidium robustum</i>				
	<i>Gelidium sp.</i>				

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
Turkish towel	<i>Gloiosiphonia verticillaris</i>				
	<i>Goniotrichopsis sublittoralis</i>				
	<i>Gracilariophila oryzoides</i>				
	<i>Gracilariopsis sjoestedtii</i>	Co	Co	S	
	<i>Grateloupia doryphora</i>				
Turkish towel	<i>Grateloupia filicina</i>				
	<i>Griffithsia pacifica</i>				
	<i>Gymnogongrus chiton</i>				
	<i>Halosaccion glandiforme</i>	Ab	Co	S	
	<i>Halymenia schizymenioides</i>				
	<i>Halymenia templetonii</i>				
	<i>Herposiphonia parva</i>				
Narrow turkish towel	<i>Herposiphonia plumula</i>				
	<i>Hildenbrandia occidentalis</i>				
	<i>Hildenbrandia rubra</i>				
	<i>Hildenbrandia spp.</i>	Co	Ab	S	
	<i>Hommersandia palmatifolia</i>				
	<i>Hymenena coccinea</i>				
	<i>Hymenena flabelligera</i>				
	<i>Hymenena multiloba</i>				
	<i>Janczewskaia gardneri</i>				
	<i>Leachiella pacifica</i>				
	<i>Lithophyllum dispar</i>				
	<i>Lithophyllum grumosum</i>				
	<i>Lithophyllum proboscideum</i>				
Narrow turkish towel	<i>Lithothamnium sp.</i>	Unco	Co	S	
Cup and saucer algae	<i>Lithothrix aspergillum</i>	Co	Ab	V	
	<i>Maripelta rotata</i>				
Small coral	<i>Mastocarpus jardinii</i>	Ab	Ab	S	
Hidden ribs	<i>Mastocarpus papillatus</i>	Co	Ab	S	
	<i>Mazzaella affinis</i>				
	<i>Mazzaella californica</i>				
	<i>Mazzaella cordata</i>				
Nail brush	<i>Mazzaella cornucopiae</i>	Ab	Ab	V	
Red leaf	<i>Mazzaella flaccida</i>	Ab	Co	S	
Belly branch	<i>Mazzaella heterocarpa</i>	Ab	Co	S	
	<i>Mazzaella leptorhynchus</i>				
	<i>Mazzaella linearis</i>				
	<i>Mazzaella rosea</i>				
Agarweed	<i>Mazzaella splendens</i>	Ab	Ab	V	
	<i>Mazzaella volans</i>				
Agarweed	<i>Melobesia marginata</i>				
	<i>Melobesia mediocris</i>	Ab	Co	V	
	<i>Membranoptera dimorpha</i>				
	<i>Mesophyllum conchatum</i>				
	<i>Mesophyllum lamellatum</i>				
Spaghetti weed	<i>Microcladia borealis</i>	Co	Co	V	
Sea sac	<i>Microcladia coulteri</i>	Co	Ab	S	
	<i>Myriogramme sp.</i>				
	<i>Myriogramme spectabilis</i>				
	<i>Myriogramme variegata</i>				
	<i>Neoptilota densa</i>				
	<i>Neoptilota hypnoides</i>				
	<i>Neoptilota sp.</i>				
Wine crust	<i>Neorbodomela larix</i>	Co	Co	S	

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
	<i>Nienburgia andersoniana</i>				
	<i>Nitophyllum sp.</i>				
	<i>Nitophyllum sp.</i>				
crustose coralline	<i>Odonthalia floccosa</i>	Co	Co	S	
Stone hair	<i>Opuntiella californica</i>	Co	Ab	S	
Little turkish towel	<i>Osmundea spectabilis</i>	Co	Co	S	
Little turkish towel	<i>Petrocelis franciscana</i>	Ab	Co	V	
	<i>Petrospongium rugosum</i>				
	<i>Peyssonelliopsis epiphytica</i>				
	<i>Peyssonnelia meridionalis</i>				
	<i>Peyssonnelia pacifica</i>				
	<i>Phycodrys setchellii</i>				
	<i>Pikea californica</i>				
	<i>Pikea pinnata</i>				
	<i>Pleonosporium vancouverianum</i>				
Bunny ears algae	<i>Plocamium cartilagineum</i>	Co	UnCo	V	
	<i>Plocamium cartilagineum var. pacificum</i>				
	<i>Plocamium oregonum</i>				
	<i>Plocamium pacificum</i>				
	<i>Plocamium sp.</i>				
	<i>Plocamium violaceum</i>				
Iridescent seaweed	<i>Polyneura latissima</i>	Ab	Ab	V	
Warty algae	<i>Polysiphonia hendryi</i>	Co	Co	V	
	<i>Polysiphonia hendryi</i>				
	<i>Polysiphonia pacifica</i>				
	<i>Polysiphonia saraticeri</i>				
	<i>Polysiphonia sp.</i>				
Many veined algae	<i>Porphyra gardneri</i>	Ab	Ab	S	
Many siphon algae	<i>Porphyra lanceolata</i>	Ab	Ab	S	
Nori/laver	<i>Porphyra nereocystis</i>	Co	Co	V	
Iridescent seaweed	<i>Porphyra perforata</i>	Co	Ab	V	
Serrated red weed	<i>Porphyra sp.</i>	Ab	Co	S	
	<i>Prionitis australis</i>				
	<i>Prionitis cornea</i>				
Phyllospadix crust	<i>Prionitis lanceolata</i>	Co	Co	S	
	<i>Prionitis linearis</i>				
	<i>Prionitis lyallii</i>				
	<i>Prionitis filiformis</i>				
	<i>Prionitis sp.</i>				
	<i>Pseudolithobophyllum neofarlowii</i>				
	<i>Pterochondria woodii</i>				
	<i>Pteroclatiella caloglossoides</i>				
	<i>Pteroclatiella capillacea</i>				
	<i>Pterosiphonia baileyi</i>				
	<i>Pterosiphonia bipinnata</i>				
	<i>Pterosiphonia dendroidea</i>				
	<i>Pterothamnion villosum</i>				
	<i>Ptilota filicina</i>				
	<i>Ptilothamnionopsis lejolisea</i>				
	<i>Pugetia fragilissima</i>				
Cactus weed	<i>Rhodochorton purpureum</i>	UnCo	Co	S	
Small branch	<i>Rhodymenia californica</i>	Co	Co	S	
	<i>Rhodymenia callophyllidoides</i>				
	<i>Rhodymenia pacifica</i>				

Common Name	Scientific Name	Federal Status	Population Estimate	Population Trend	Season in NMS
	<i>Sablingia subintegra</i>				
	<i>Sarcodiotheca gaudichaudii</i>				
	<i>Schimmelemannia plumosa</i>				
	<i>Schizymenia pacifica</i>				
	<i>Scinaia confusa</i>				
	<i>Smithora naiadum</i>				
	<i>Stenogramma interrupta</i>				
	<i>Stylonema alsidii</i>				
	<i>Tiffaniella snyderae</i>				
	<i>Titanoderma dispar</i>				
	<i>Weeksia reticulata</i>				
VASCULAR					
Surf grass	<i>Phyllospadix scouleri</i>	Ab	Ab	E	
	<i>Phyllospadix torreyi</i>				
Eel grass	<i>Zostera marina</i>	Ab	Ab	E	

Abbreviations:

Federal Status:

E - Endangered

T - Threatened

SC - Species of Concern; May be endangered or threatened; not enough information has been gathered to support listing at this time.

C - Candidate; to become a proposed species for listing as endangered or threatened.

D - Delisted; to be monitored for 5 years.

Population Trend:

I - Increasing

S - Stable

D - Decreasing

? - following above (e.g., "I?") indicates no data are available but we guess this designation based on anecdotal information.

Sanctuary:

F - Gulf of The Farallones NMS only

B - Both Gulf of the Farallones and Cordell Bank NMS

? - Suspected of occurring based on range but documented records lacking.

Table C-3
Special Status and Sensitive Species Lists for MBNMS

Common Name	Scientific Name	Federal Status	State Status	CNPS	DFG
Plants					
Sea palm	<i>Postelsia sp.</i>				no take
Eel grass*	<i>Zostera marina</i>				no take
Surf grass	<i>Phylospadix sp.</i>				no take
Marin bent grass	<i>Agrostis blasdalei var marinensis</i>	SC (FWS)	R		
Little sur manzanita	<i>Arctostaphylos edmundsii</i>	SC (FWS)	R	1B	
Hearst's manzanita	<i>Arctostaphylos hookeri ssp hearstiorum</i>	SC (FWS)	E	1B	
Marsh sandwort	<i>Arenaria paludicola</i>	Endangered	E	1B	
Coastal dunes milk-vetch	<i>Astragalus tener var titi</i>	Candidate (FWS)	E	1B	
Monterey Indian paintbrush	<i>Castilleja latifolia</i>			4	
Hearst's ceanothus	<i>Ceanothus bearstiorum</i>	SC (FWS)	R	1B	
Maritime ceanothus	<i>Ceanothus maritimus</i>	SC (FWS)	R	1B	
Monterey spineflower	<i>Chorizanthe pungens var pungens</i>	Threatened		1B	
Robust spineflower	<i>Chorizanthe robusta var robusta</i>	Endangered		1B	
Compact cobwebby thistle	<i>Cirsium occidentale var compactum</i>	SC (FWS)		1B	
Surf thistle	<i>Cirsium rhotobophilum</i>	Candidate (FWS)	T	1B	
Salt marsh bird's-beak	<i>Cordylanthus maritimus ssp maritimus</i>	Endangered	E	1B	
Soft bird's-beak	<i>Cordylanthus mollis ssp mollis?</i>	Candidate (FWS)	R	1B	
Seaside bird's-beak	<i>Cordylanthus rigidus ssp littoralis</i>	Candidate (FWS)	E	1B	
Gowen cypress	<i>Cupressus govenia ssp govenia</i>	SC (FWS)		1B	
Monterey cypress	<i>Cupressus macrocarpa</i>	SC (FWS)		1B	
Beach spectacle pod	<i>Dithyrea maritima</i>	Candidate (FWS)	T	1B	
Eastwood's golden fleece	<i>Ericameria fasciculata</i>	SC (FWS)		1B	
Menzies' wallflower	<i>Erysimum menziesii ssp menziesii</i>	Endangered	E	1B	
Yadon's wallflower	<i>Erysimum menziesii ssp yadonii</i>	Endangered	E	1B	
Sand Gilia	<i>Gilia tenuiflora ssp arenaria</i>	Endangered	T	1B	
Kellogg's horkelia	<i>Horkelia cuneata ssp. sericea</i>	SC (FWS)		1B	
Beach Layia	<i>Layia carnosa</i>	Endangered	E	1B	
Mason's lilaeopsis	<i>Lilaeopsis masonii</i>	SC (FWS)	R	1B	
Nipomo mesa lupine	<i>Lupinus nipomensis</i>	Candidate (FWS)	E	1B	

Common Name	Scientific Name	Federal Status	State Status	CNPS	DFG
Plants					
Tidestrom's lupine	<i>Lupinus tidestromii</i>	Endangered	E	1B	
Monterey pine	<i>Pinus radiata</i>	SC (FWS)		1B	
Yadon's piperia	<i>Piperia yadoni</i>	Candidate (FWS)		1B	
Adobe sanicle	<i>Sanicula maritima</i>	SC (FWS)	R	1B	
California sea blite	<i>Suaeda californica</i>	Endangered		1B	
Pacific Grove clover	<i>Trifolium variegatum (=T. polyodon)</i>	Candidate (FWS)	R	1B	

* a really important sp of concern at Elkhorn: used to be abundant, now rare; hosts unique animal community, etc.

Common Name	Scientific Name	Federal		State		Inter-national
		ESA	CESA	CNDDB	DFG	IUCN
Invertebrates						
White Abalone	<i>Haliotis sorenseni</i>	E (05/29/01)		G1S1	no take	
Black abalone	<i>Haliotis cracherodii</i>	SC (NMFS)		G3G4S3	no take	CR
Pinto abalone	<i>Haliotis kamtschatkana</i>	SC (NMFS)			no take	
California brackishwater snail*	<i>Tryonia imitator</i>			G2G3S2S3		DD
Olympic oyster*	<i>Ostrea lurida/conchaphila</i>			G1G2S1S2		VU
MacKenzies' cave amphipod	<i>Stygobromus mackenziei</i>	SC (FWS)		G5T1T2S1S2		VU
Smith's blue butterfly	<i>Euphilotes enoptes smithi</i>	E (06-01-76)		G1S1		VU
Globose dune beetle	<i>Coelus globosus</i>	SC (FWS)				

* recommended by Kerstin: brackish snail - it was considered for listing; occurs in muted flow areas of Slough and appears to be quite rare; oyster - not listed, but very important invert; once abundant in slough, now rare

Common Name	Scientific Name	Federal		CESA	State		NGO		Inter-national	
		ESA	FS		CNDDB	DFG	IUCN	AFS	CITES	PFMC?
Fishes										
Chinook salmon (spring run) Sac Rv and tributaries	<i>Oncorhynchus tshawytscha</i>	PT (06-14-04); T (11-15-99)	sensitive	T (02-05-99)						
Chinook salmon (fall/late fall run) Sacramento river	<i>Oncorhynchus tshawytscha</i>	Candidate; SC (NMFS)	sensitive	SSC	G5S2?					
Chinook salmon (winter run)	<i>Oncorhynchus tshawytscha</i>	PT (06-14-04);		E (09-22-	G5S1					

Common Name	Scientific Name	Federal ESA	FS	CESA	State CNDDB	DFG	NGO IUCN	AFS	Inter- national CITES	PFMC?
Fishes										
Sacramento River Coho salmon (central CA coast ESU)	<i>Oncorhynchus kisutch</i>	E (02-03-94) PE (06-14-04); T (12-02-96)		89) E (12-31- 95)						
Steelhead (central CA coast ESU) Russian Rv to Soquel Creek	<i>Oncorhynchus mykiss irideus</i>	PT (06-14-04): T (10-17-97)	sensitive?		G5S2					
Steelhead (south/cen CA coast ESU) Pajaro Rv to Santa Maria Rv	<i>Oncorhynchus mykiss irideus</i>	PT (06-14-04): T (10-17-97)		SSC	G5S3					
Tidewater goby	<i>Encyclogobius newberryi</i>	E (02-04-94)		SSC (QE)	G3S2S3		VU	EN		
River lamprey	<i>Lampetra ayresii</i>	SC (FWS)		SSC (WL)	G4S4					
Pacific lamprey	<i>Lampetra tridentata</i>	SC (FWS)			G5S?					
White sturgeon	<i>Acipenser transmontanus</i>	E (09-06-94)			G3S2	LT (1)	LR/nt	CD*	App II	
Green sturgeon	<i>Acipenser medirostris</i>	Candidate; SC (NMFS)		SSC (QT)	G3S1S2	LT (1)	VU	EN	App II	
Giant sea bass	<i>Stereolepis gigas</i>				G3?S1S2	no take	CR	VU		
Broomtail grouper	<i>Mycteroperca xenarcha</i>					no take		VU		
Cowcod	<i>Sebastes levis</i>	SC (NMFS)				no take		VU		
Bocaccio	<i>Sebastes paucispinis</i>	SC (NMFS)				LT (2)	CR	VU		
Darkblotched rockfish	<i>Sebastes crameri</i>							VU		
Widow rockfish	<i>Sebastes entomelas</i>							VU		
Canary rockfish	<i>Sebastes pinniger</i>					no take		VU		
Yelloweye rockfish	<i>Sebastes ruberrimus</i>					no take		VU		
Pacific ocean perch	<i>Sebastes alutus</i>							VU*		SC
Black rockfish	<i>Sebastes melanops</i>							VU*		SC
Bronzespotted rockfish	<i>Sebastes gilli</i>									
Shortspine thornyhead	<i>Sebastolobus alascanus</i>						EN	VU		
Lingcod	<i>Ophiodon elongatus</i>					LT (2)		VU		
Basking shark (N. Pacific subpopulation)	<i>Cetorhinus maximus</i>						EN	VU	App II	
White shark	<i>Carcharodon carcharias</i>					no take	VU	CD	App III	

Common Name	Scientific Name	Federal		CESA	State		NGO		Inter-national CITES	PFMC?
		ESA	FS		CNDDDB	DFG	IUCN	AFS		
Fishes										
Big skate	<i>Raja binoculata</i>						(1994)	LR/nt	VU	
Broadnose sevengill shark (E. Pacific subpopulation)	<i>Notorynchus cepedianus</i>						LT (1)	LR/nt		
Bluntnose sixgill shark	<i>Hexanchus griseus</i>						LT (1)	LR/nt		
Shortfin mako	<i>Isurus oxyrinchus</i>						LT (2)	LR/nt^		
Blue shark	<i>Prionace glauca</i>						LT (2)	LR/nt		
Spiny dogfish	<i>Squalus acanthias</i>							LR/nt^		
Leopard shark	<i>Triakis semifasciata</i>						LT (3)	LR/cd^		
Pacific angel shark	<i>Squatina californica</i>							LR/nt		
Bigeye tuna (Pacific stock)	<i>Thunnus obesus</i>							EN		
Sacramento perch	<i>Archoplites interruptus</i>	SC (FWS)		SSC (WL)	G3S1					
Longfin Smelt	<i>Spirinchus thaleichthys</i>	SC (FWS)		SSC (QE)	G5S1				TH	
Eulachon	<i>Thaleichthys pacificus</i>			SSC (WL)	G5S3				TH	

Notes:

CESA - SSC status based on 1995 list by Moyle et al

^ Bob Lea says IUCN status based on global populations; these species have healthy populations in NE Pacific

*status level based on nearby locations because population in MBNMS not assessed

broomtail grouper - Added based on recommendations from Paul Reilly

species added to the list by Bob Lea - River lamprey, white sturgeon, Pacific ocean perch, black rockfish, bronzespotted rockfish, broomtail grouper, sevengill shark, Sacramento perch, tule perch, longfin smelt and eulachon

Pacific lamprey - restricted to larger streams of the region (Pescadero, Soquel, Llagas, Uvas and Coyote creeks, San Lorenzo and Guadalupe rivers), and are relatively uncommon except in the San Lorenzo River.

Coho are found in cool coastal streams with flat reaches containing good woody pools (Pescadero, Gazos, Waddell, Scott and San Vicente creeks).

Steelhead: runs of several hundred fall-run fish now annually enter Coyote Creek and the Guadalupe River in Santa Clara County.

Mark Carr - Recommends removing giant sea bass and broomtail grouper because very rare in MBNMS;also recommends covering rockfish as a management group

Common Name	Scientific Name	Federal			CESA	State		NGO IUCN	Inter-national CITES
		ESA	BLM	FS		CNDDDB	DFG		
Reptiles									
Green sea turtle	<i>Chelonia mydas</i>	T (07-28-78)						EN	App I
Hawksbill sea turtle	<i>Eretmochelys imbricata</i>	E						CR	App I
Leatherback sea turtle	<i>Dermochelys coriacea</i>	E (06-02-70)				G2SNA		CR	App I
Loggerhead sea turtle	<i>Caretta caretta</i>	T (07-28-78)						EN	App I
Olive (Pacific) ridley sea turtle	<i>Lepidochelys olivacea</i>	T (07-28-78)						EN	App I

Common Name	Scientific Name	Federal				State			NGO IUCN	Inter- national CITES
		ESA	BLM	FS	CESA	CNDDDB	DFG			
Reptiles										
Black legless lizard	<i>Anniella pulchra nigra</i>			sensitive	SSC	G3G4T2T3QS 2		No take?		
Silvery legless lizard	<i>Anniella pulchra pulchra</i>	SC (FWS)		sensitive	SSC	G3G4T3T4QS 3		LT (1)		
California horned lizard	<i>Phrynosoma coronatum frontale</i>	SC (FWS)	sensitive		SSC	G4T3T4S3S4				
San Francisco garter snake	<i>Thamnophis sirtalis tetrataenia</i>	E (03-11-67)			E (06-27-71)	G5T2Se		Fully Protected		

Notes:

Green sea turtle - Scott Benson (NOAA) doesn't think it should be included; Jim Harvey (MLML) thinks it should be included

Hawksbill sea turtle - Scott Benson doesn't think it should be included

Leatherback sea turtle - species profile in progress

Loggerhead sea turtle - Scott Benson doesn't think it should be included

Olive (Pacific) ridley sea turtle - Scott Benson doesn't think it should be included

Black legless lizard - added on advice from Scott Benson; black subspecies is restricted to sparsely vegetated beach dunes around Monterey Bay

Silvery legless lizard - added on advice from Scott Benson; widespread in coastal and inland sandy habitats, south of San Francisco

California horned lizard - from MBNMS site characterization; largely restricted to southern Santa Clara County; drier, more open chaparral and grassland habitats

San Francisco garter snake - from MBNMS site characterization; associated with slower streams, natural and artificial ponds and marshes in San Mateo County, primarily on or west of the crest of the Santa Cruz Mountains

Common Name	Scientific Name	Federal				State				NGO			Inter- national CITES
		ESA	BLM	FWS	MBTA	CESA	CNDDDB	DFG	CDF	IUCN	USBC	Audubon	
Birds													
Common Loon	<i>Gavia immer</i>			MNBMC	X	SSC	G5S1						
Short-tailed Albatross	<i>Phoebastria albatrus</i>	E (08-30-00)			X	SSC				VU	x	Red	App I
Black-footed Albatross	<i>Phoebastria nigripes</i>	SC (FWS)		BCC	X					EN	x	Red	EN
Laysan Albatross	<i>Phoebastria immutabilis</i>				X					VU	x	Yellow	VU
Buller's Shearwater	<i>Puffinus bulleri</i>				X					VU		Yellow	VU
Pink-footed Shearwater	<i>Puffinus creatopus</i>				X					VU	x	Red	VU
Black-vented Shearwater	<i>Puffinus opisthomelas</i>				X					VU	x	Red	VU
Ashy Storm-Petrel	<i>Oceanodroma homochroa</i>	SC (FWS)		BCC; MNBMC	X	SSC (SP)	G2S2			LR/nt	x	Red	LR/nt

Common Name	Scientific Name	Federal					State			NGO				Inter- national
		ESA	BLM	FWS	MBTA	CESA	CNDDDB	DFG	CDF	IUCN	USBC	Audubon	BLI	CITES
Birds														
Fork-tailed Storm-Petrel	<i>Oceanodroma furcata</i>				X	SSC (FP)	G5S1							
Black storm-Petrel	<i>Oceanodroma melania</i>				X	SSC (TP)	G2S1			x	Yellow			
California Brown Pelican	<i>Pelecanus occidentalis californicus</i>	E (10-13-70)		MNBMC	X	E (06-27-71)	G4T3S1S2	FP						
American White Pelican	<i>Pelecanus erythrorhynchos</i>				X	SSC (FP)	G3S1							
Double-crested Cormorant	<i>Phalacrocorax auritus</i>				X	SSC (SP)	G5S3							
American Bittern	<i>Botaurus lentiginosus</i>	SC (FWS)		MNBMC	X		G4S3							
Least Bittern	<i>Ixobrychius exilis</i>			MNBMC	X	SSC (TP)	G5S1							
Great Blue Heron	<i>Ardea herodias</i>				X		G5S4		sensitive					
Great Egret	<i>Ardea alba</i>				X		G5S4		sensitive					
Snowy Egret	<i>Egretta thula</i>				X		G5S4			x	x			
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>		sensitive		X		G5S3							
White-faced Ibis	<i>Plegadis chibi</i>	SC (FWS)		MNBMC	X		G5S1							
Harlequin Duck	<i>Histrionicus histrionicus</i>	SC (FWS)	sensitive		X	SSC (FP)	G4S2							
Osprey	<i>Pandion haliaetus</i>				X		G5S3		sensitive					App II
Bald Eagle	<i>Haliaeetus leucocephalus</i>	D (Delist 08-08-07)			X	E (06-27-71)	G4S2	FP	sensitive					App I
Merlin	<i>Falco columbarius</i>				X		G5S3							App II
American Peregrine Falcon	<i>Falco peregrinus anatum</i>	SC(FWS) (Delist 08-25-99)		BCC; MNBMC	X	E (06-27-71)	G4T3S2	FP	sensitive					App I
California Clapper Rail	<i>Rallus longirostris obsoletus</i>	E (10-13-70)			X	E (06-27-71)	G5T1S1	FP		x				
California Black Rail	<i>Laterallus jamaicensis coturniculus</i>	SC (FWS)		BCC; MNBMC	X	T (06-27-71)	G4T1S1	FP		LR/nt	x	Red	LR/nt	
Western Snowy Plover	<i>Charadrius alexandrinus nivosus</i>	T (04-05-93)		BCC; MNBMC	X	SSC	G4T3S2			x	Red			
Black Oystercatcher	<i>Haematopus bachmani</i>	SC (FWS)		BCC	X		G5S2			x	Yellow			
Whimbrel	<i>Numenius phaeopus</i>	SC (FWS)		BCC	X					x	Yellow			

Common Name	Scientific Name	Federal			State				NGO				Inter- national	
		ESA	BLM	FWS	MBTA	CESA	CNDDDB	DFG	CDF	IUCN	USBC	Audubon	BLI	CITES
Birds														
Long-billed Curlew	<i>Numenius americanus</i>	SC (FWS)		BCC; MNBMC	X		G5S2			LR/nt	x	Red	LR/nt	
Marbled Godwit	<i>Limosa fedoa</i>	SC (FWS)		BCC	X						x	Yellow		
Black Turnstone	<i>Arenaria melanocephala</i>	SC (FWS)		BCC	X						x	Yellow		
Red Knot	<i>Calidris canutus</i>	SC (FWS)		BCC	X						x	Yellow		
Short-billed Dowitcher	<i>Limnodromus griseus</i>			BCC	X							Yellow		
California Gull	<i>Larus californicus</i>				X		G5S2							
Heermann's Gull	<i>Larus heermanni</i>				X					LR/nt		Red	LR/nt	
Caspian Tern	<i>Sterna caspia</i>				X		G5S4							
Elegant Tern	<i>Sterna elegans</i>	SC (FWS)		BCC; MNBMC	X	SSC (TP)	G2S1			LR/nt		Red	LR/nt	
Forster's Tern	<i>Sterna forsteri</i>				X		G5S4							
California Least Tern	<i>Sterna antillarum browni</i>	E (10-13- 70)		MNBMC	X	E (06-27-71)	G4T2T3S2 S3	FP			x			
Black Skimmer	<i>Rynchops niger</i>	SC (FWS)		BCC	X	SSC (TP)	G5S1S3					x		
Marbled Murrelet	<i>Brachyramphus marmoratus marmoratus</i>	T (09-30- 92)		MNBMC	X	E (03-12-92)	G3G4S1		sensiti ve	VU	x	Red	VU	
Xantus's Murrelet	<i>Synthliboramphus hypoleucus</i>	SC / Candidate (FWS)		BCC; MNBMC	X	T	G3G4S3			VU	x	Red	VU	
Cassin's Auklet	<i>Ptychoramphus aleuticus</i>	SC (FWS)		BCC	X	SSC (SP)	G4S?							
Rhinoceros Auklet	<i>Cerorhinca monocerata</i>				X	SSC (TP)	G5S3							
Tufted Puffin	<i>Fratercula cirrhata</i>				X	SSC (FP)	G5S2							
Black Swift	<i>Cypseloides niger</i>	SC (FWS)		BCC; MNBMC	X	SSC (TP)	G4S2				x	Yellow		
Loggerhead Shrike	<i>Lanius ludovicianus</i>	SC (FWS)		BCC; MNBMC	X	SSC (SP)	G4S4							
Tricolored Blackbird	<i>Agelaius tricolor</i>	SC (FWS)	sensiti ve	BCC; MNBMC	X	SSC (FP)	G2G3S2				x	Yellow		
Saltmarsh/San Francisco Common Yellowthroat	<i>Geothlypis trichas sinuosa</i>	SC (FWS)		BCC	X	SSC (FP)	G5T2S2							
Belding's Savannah Sparrow	<i>Passerculus sandwichensis beldingi</i>				X	E (01-10-74)	G5T3S3							
Short-eared Owl	<i>Asio flammeus</i>			MNBMC	X	SSC (SP)	G5S3				x	Yellow		App II

Notes: CESA - SSC status based on "List of Bird Species of Special Concern - DRAFT 10-17-2003"

Common Name	Scientific Name	Federal			State		NGO	Inter- national
		ESA	MMPA	CESA	CNDDDB	DFG	IUCN	CITES
Mammals								
Blue whale (Eastern N. Pacific stock)	<i>Balaenoptera musculus</i>	E (06-02-70)	Depleted; Strategic				LR/cd	App I
Fin whale (CA-OR-WA stock)	<i>Balaenoptera physalus</i>	E (06-02-70)	Depleted; Strategic				EN (world- wide)	App I
Humpback whale (Eastern N. Pacific stock)	<i>Megaptera novaeangliae</i>	E (06-02-70)	Depleted; Strategic SSC;				VU (world- wide)	App I
North Pacific right whale	<i>Eubalaena japonica</i>	E (06-02-70)	Depleted; Strategic			Fully Protected	EN	App I
Gray whale (Eastern N. Pacific stock)	<i>Eschrichtius robustus</i>	SC(FWS); Delist (06-16- 94)	SSC				LR/cd	App I
Sei whale (E. North Pacific stock)	<i>Balaenoptera borealis</i>	E (06-02-70)	Depleted; Strategic				EN (world- wide)	App I
Sperm whale (CA-OR-WA stock)	<i>Physeter macrocephalus</i>	E (06-02-70)	Depleted; Strategic SSC;				VU (world- wide)	App I
Killer Whale (Eastern N. Pacific Southern Resident stock)	<i>Orcinus orca</i>	Candidate; SC (NMFS)	Depleted; Strategic				LR/cd (world-wide)	App II
Short-finned pilot whale	<i>Globicephala macrorhynchus</i>		Strategic				LR/cd (world-wide)	App II
Baird's beaked whale (CA-OR-WA stock)	<i>Berardius bairdii</i>		Non- strategic				LR/cd (world-wide)	App I
Hubb's beaked whale (Mesoplodont spp CA-OR-WA stocks)	<i>Mesoplodon carlhubbsi</i>		Non- strategic				DD (world- wide)	App II
Cuvier's beaked whale (CA-OR-WA stock)	<i>Ziphius cavirostris</i>		Non- strategic				DD (world- wide)	App II
Harbor Porpoise (San Francisco-Russian River stock)	<i>Phocoena phocoena</i>		Non- strategic				VU (world- wide)	App II
Harbor Porpoise (Monterey Bay stock)	<i>Phocoena phocoena</i>		Non- strategic				VU (world- wide)	App II
Harbor Porpoise (Morro Bay stock)	<i>Phocoena phocoena</i>		Non- strategic SSC;				VU (world- wide)	App II
Steller sea lion (Eastern stock)	<i>Eumetopias jubatus</i>	T (04-05-90)	Depleted; Strategic			G3S2	EN (world- wide)	

Common Name	Scientific Name	Federal			State		NGO	Inter-national
		ESA	MMPA	CESA	CNDDB	DFG	IUCN	CITES
Mammals								
Guadalupe fur seal	<i>Arctocephalus townsendi</i>	T (12-16-85)	Depleted; Strategic	T (06-27-71)	G1S1	Fully Protected	VU (world-wide)	App I
Northern fur seal (San Miguel Island stock)	<i>Callorhinus ursinus</i>		Non-strategic		G3S1		VU (world-wide)	
Northern elephant seal	<i>Mirounga angustirostris</i>		Non-strategic			Fully Protected		
Southern sea otter	<i>Enhydra lutris nereis</i>	T (01-14-77)	Depleted; Strategic		G4T2S2	Fully Protected	EN (world-wide)	App I
Monterey / Salinas ornate shrew	<i>Sorex ornatus salarius</i>			SSC	G5T1T2S1S2			
Salinas Harvest Mouse	<i>Reithrodontomys megalotis distichlis</i>				G5THSH			
Monterey vole	<i>Microtus californicus halophilus</i>				G5T1S1			
Salt-marsh harvest mouse	<i>Reithrodontomys raviventris</i>	E (10-13-70)		E (06-27-71)	G1G2S1S2	Fully Protected	VU (world-wide)	

Notes: (many based on 2003 Status Assessment Report and speaking with Karin Forney, NOAA)

Blue Whale: eastern N Pac stock is doing well compared to Atlantic and Antarctic stocks

Fin Whale:

Humpback whale (Eastern N. Pacific stock)

North Pacific right whale

Gray whale Eastern N. Pacific stock)

Sei whale (E. North Pacific stock): very few sightings in the MBNMS

Sperm whale (CA-OR-WA stock)

Killer Whale: Southern Resident stock has been found in the MBNMS during the winter over the last few years - this populations is under review for status under ESA and "depleted" under MMPA. The offshore and transient stocks in the MBNMS are not considered threatened or strategic

Short-finned pilot whale: very rare in the MBNMS - Karin would not include for spp summaries

Baird's beaked whale: east Pac stock is healthy; take occurs in the west pacific stock; Karin would not included in species summaries

Hubb's beaked whale: added to list by Jim Harvey

Curvier's beaked whale: added to list by Jim Harvey

Harbor Porpoise: this is one of the most vulnerable cetaceans in the MBNMS due to high take in gill net fishery; she recommends for in-depth inclusion in the report; check status in next report because new strandings may cause one or more stocks to become "strategic" again

Index of the listing codes used in the tables**FEDERAL LISTING CODES****ESA: Endangered Species Act of 1973 Listing Codes**

E: Federally listed as Endangered

T: Federally listed as Threatened

PE: Federally proposed for listing as Endangered

PT: Federally proposed for listing as Threatened

PD: Federally proposed for de-listing

D: Federally delisted

Candidate: candidate for listing as endangered or threatened

SC: Species of Concern

BLM: Bureau of Land Management

Sensitive

FS: USDA Forest Service

Sensitive

FWS: Fish and Wildlife Service

BCC : Birds of Conservation Concern

MNBMC: Migratory Nongame Birds of Management Concern

MBTA: Migratory Bird Treaty Act (MBTA) of 1918

taking, killing or possessing migratory birds (or their parts, nests or eggs) is unlawful

MMPA: Marine Mammal Protection Act

Depleted:

a population that has fallen below its optimum sustainable population

SSC:

Species of Special Concern - Marine Mammal Commission devotes special attention to particular species and populations that are vulnerable to various types of human-related activities, impacts, and contaminants.

Strategic:

stocks that are either federally listed as endangered or threatened, listed as depleted under the MMPA or have human-related mortality exceeding the Potential Biological Removal level

STATE LISTING CODES**CESA: California Endangered Species Act Listing Codes**

E: State-listed as Endangered
 T: State-listed as Threatened
 CE: State candidate for listing as Endangered
 CT: State candidate for listing as Threatened
 SSC: Species of Special Concern
 QE: Qualify as Endangered (fish list)
 QT: Qualify as Threatened (fish list)
 FP: First Priority (bird list)
 SP: Second Priority (bird list)
 TP: Third Priority (bird list)
 WL: Watch List (fish list)

CNDDDB: California Natural Diversity Database**GLOBAL RANKS:** Worldwide status of a *full species*: G1 to G5

G1: Extremely endangered: <6 viable occurrences (EO's) or <1,000 individuals, or < 2,000 acres of occupied habitat
 G2: Endangered: about 6-20 EO's or 1,000 - 3,000 individuals, or 2,000 to 10,000 acres of occupied habitat
 G3: Restricted range, rare: about 21-100 EO's, or 3,000 – 10,000 individuals, or 10,000 – 50,000 acres of occupied habitat
 G4: Apparently secure; some factors exist to cause some concern such as narrow habitat or continuing threats
 G5: Demonstrably secure; commonly found throughout its historic range

STATE RANKS: Statewide status of a *full species or a subspecies*: S1 to S5

Same general definitions as global ranks, but just for the range of the taxa within California.

T-RANKS: Status of a *subspecies* throughout its range: T1 to T5

A subspecies is given a T-rank. This is attached to the G-rank for the full species. The S-rank, in this case, will refer to the status of the subspecies within California. The T-rank has the same general definitions as the global ranks.

DFG: Department of Fish and Game

FP:
 Fully Protected - the State's initial effort in the 1960's to identify and provide additional protection to those animals that were rare or faced possible extinction.

NT:
 No Take - species for which take or possession is prohibited under the Fish and Game Code.

LT (#):
 Limited Take - take limited by Fish and Game Code; number allowed to be taken per day per person is given in parenthesis

CDF: California Department of Forestry

Sensitive

CNPS: California Native Plant Society

List 1A:

Plants Presumed Extinct in California

List 1B:

Rare, threatened or endangered in California and elsewhere

List 2:

Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere

List 3:

Plants About Which We Need More Information - A Review List

List 4:

Limited distribution, which may lead to species becoming rare, threatened or endangered.

NON-GOVERNMENT ORGANIZATION (NGO) LISTING CODES

IUCN: The World Conservation Union - Red List of Threatened Species

CR: Critically Endangered

EN: Endangered

VU: Vulnerable

LR: Lower Risk - category can be separated into three subcategories:

cd: conservation dependent

nt: near threatened

lc: least concern

DD: Data Deficient

AFS: American Fisheries Society

EN: Endangered

TH: Threatened

VU: Vulnerable

CD: Conservation Dependent

USBC: United States Bird Conservation

Watch List

Audubon: The Audubon Society Watch List

Red:

species in this category are declining rapidly, have very small populations or limited ranges, and face major conservation threats. These typically are species of global conservation concern

Yellow:

this category includes those species that are also declining, but at a slower rate than those in the red category. These typically are species of national conservation concern.

BLI: BirdLife International

Same categories as the IUCN Red List

INTERNATIONAL LISTING CODES

CITES: The Convention on International Trade in Endangered Species of Wild Fauna and Flora

Appendix I:

includes species threatened with extinction. Trade in specimens of these species is permitted only in exceptional circumstances.

Appendix II:

includes species not necessarily threatened with extinction, but in which trade must be controlled in order to avoid utilization incompatible with their survival.

Appendix III:

contains species that are protected in at least one country, which has asked other CITES Parties for assistance in controlling the trade.