APPENDIX D

TABLES OF MODEL DATA INPUTS

This appendix contains the full list of model inputs used in the application of the model. Inputs are broken into broad categories. All field headings presented herein are directly drawn from the project database. See Appendix C for more detailed descriptions of each field.

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1.0 SPECIES MODEL INPUTS

1.1 Species

Table 1. Species master list. This list provides the complete list of species analyzed for environmental vulnerability in the model. Species vulnerability was based on scoring schemes unique to each taxonomic group. The taxonomic subgroup column displays the subgrouping used in the species selection protocol.

Common_Name	Scientific_Name	Taxonomic_Group	Taxonomic_Subgroup
Atka Mackerel	*Pleurogrammus monopterygius*	Fish and Invertebrates	Semi-demersal fish
Walleye Pollock	*Theragra chalcogramma*	Fish and Invertebrates	Semi-demersal fish
Pacific Herring	*Clupea pallasii*	Fish and Invertebrates	Small pelagic fish
Arctic Cod	*Boreogadus saida*	Fish and Invertebrates	Small pelagic fish
Pacific Halibut	*Hippoglossus stenolepis*	Fish and Invertebrates	Large pelagic fish
Arrowtooth Flounder	*Atheresthes stomias*	Fish and Invertebrates	Demersal fish
Pink Salmon	*Oncorhynchus gorbuscha*	Fish and Invertebrates	Anadromous fish
Arctic Cisco	*Coregonus autumnalis*	Fish and Invertebrates	Anadromous fish
Squid		Fish and Invertebrates	Pelagic Invertebrate
Euphausiids		Fish and Invertebrates	Pelagic Invertebrate
Snow crab	*Chionoecetes opilio*	Fish and Invertebrates	Demersal Invertebrate
Weathervane scallop	*Patinopecten caurinus*	Fish and Invertebrates	Benthic Invertebrate
North Pacific Right Whale	*Eubalaena japonica*	Mammals and Turtles	Baleen Whale
Humpback Whale	*Megaptera novaeangliae*	Mammals and Turtles	Baleen Whale
Bowhead Whale	*Balaena mysticetus*	Mammals and Turtles	Baleen Whale
Sperm Whale	*Physeter macrocephalus*	Mammals and Turtles	Toothed Whale
Beluga Whale	*Delphinapterus leucas*	Mammals and Turtles	Toothed Whale
Northern Fur Seal	*Callorhinus ursinus*	Mammals and Turtles	Fur bearing pinniped
Steller Sea Lion	*Eumetopias jubatus*	Mammals and Turtles	Other pinnipeds
Pacific Walrus	*Odobenus rosmarus*	Mammals and Turtles	Other pinnipeds
Ringed Seal	*Pusa hispida*	Mammals and Turtles	Other pinnipeds
Polar Bear	*Ursus maritimus*	Mammals and Turtles	Other fur bearing marine mammal
Northern Sea Otter	*Enhydra lutris*	Mammals and Turtles	Other fur bearing marine mammal
Leatherback Turtle	*Dermochelys coriacea*	Mammals and Turtles	Sea Turtle
Steller's Eider	*Polysticta stelleri*	Birds	Waterfowl
Northern Pintail	*Anas acuta*	Birds	Waterfowl
Harlequin Duck	*Histrionicus histrionicus*	Birds	Waterfowl
Short-tailed Shearwater	*Puffinus tenuirostris*	Birds	Seabirds (aerial divers)
Black-legged Kittiwake	*Rissa tridactyla*	Birds	Seabirds (aerial divers)
Short-tailed Albatross	*Phoebastria albatrus*	Birds	Seabirds (aerial divers)
Red-necked Phalarope	*Phalaropus lobatus*	Birds	Seabirds (surface divers)
Marbled Murrelet	*Brachyramphus marmoratus*	Birds	Seabirds (surface divers)
Common Murre	*Uria aalge*	Birds	Seabirds (surface divers)
Western Sandpiper	*Calidris mauri*	Birds	Shorebirds/Wading birds
Dunlin	*Calidris alpina*	Birds	Shorebirds/Wading birds
Bald Eagle	*Haliaeetus leucocephalus*	Birds	Raptors

1.2 Abundance Scores

Table 2. Arctic cisco abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Arctic Cisco	Aleutians	1	0	RB42
Arctic Cisco	Aleutians	2	0	RB42
Arctic Cisco	Aleutians	3	0	RB42
Arctic Cisco	Aleutians	4	0	RB42
Arctic Cisco	Aleutians	5	0	RB42
Arctic Cisco	Aleutians	6	0	RB42
Arctic Cisco	Aniakchak	1	0	RB42
Arctic Cisco	Aniakchak	2	0	RB42
Arctic Cisco	Aniakchak	3	0	RB42
Arctic Cisco	Aniakchak	4	0	RB42
Arctic Cisco	Aniakchak	5	0	RB42
Arctic Cisco	Aniakchak	6	0	RB42
Arctic Cisco	Beaufort Sea	1	1	RB42
Arctic Cisco	Beaufort Sea	2	1	RB42
Arctic Cisco	Beaufort Sea	3	1	RB42
Arctic Cisco	Beaufort Sea	4	1	RB42
Arctic Cisco	Beaufort Sea	5	1	RB42
Arctic Cisco	Beaufort Sea	6	1	RB42
Arctic Cisco	Bristol Bay	1	0	RB42
Arctic Cisco	Bristol Bay	2	0	RB42
Arctic Cisco	Bristol Bay	3	0	RB42
Arctic Cisco	Bristol Bay	4	0	RB42
Arctic Cisco	Bristol Bay	5	0	RB42
Arctic Cisco	Bristol Bay	6	0	RB42
Arctic Cisco	Chukchi Sea	1	0	RB42
Arctic Cisco	Chukchi Sea	2	0	RB42
Arctic Cisco	Chukchi Sea	3	0	RB42
Arctic Cisco	Chukchi Sea	4	0	RB42
Arctic Cisco	Chukchi Sea	5	0	RB42
Arctic Cisco	Chukchi Sea	6	0	RB42
Arctic Cisco	Cook Inlet	1	0	RB42
Arctic Cisco	Cook Inlet	2	0	RB42
Arctic Cisco	Cook Inlet	3	0	RB42
Arctic Cisco	Cook Inlet	4	0	RB42
Arctic Cisco	Cook Inlet	5	0	RB42
Arctic Cisco	Cook Inlet	6	0	RB42
Arctic Cisco	Kodiak/Shelikof Strait	1	0	RB42
Arctic Cisco	Kodiak/Shelikof Strait	2	0	RB42
Arctic Cisco	Kodiak/Shelikof Strait	3	0	RB42
Arctic Cisco	Kodiak/Shelikof Strait	4	0	RB42
Arctic Cisco	Kodiak/Shelikof Strait	5	0	RB42
Arctic Cisco	Kodiak/Shelikof Strait	6	0	RB42
Arctic Cisco	Kotzebue Sound/Hope Basin	1	0	RB42
Arctic Cisco	Kotzebue Sound/Hope Basin	2	0	RB42
Arctic Cisco	Kotzebue Sound/Hope Basin	3	0	RB42
Arctic Cisco	Kotzebue Sound/Hope Basin	4	0	RB42

Common_Name	AK_Region	Season	Abundance	References
Arctic Cisco	Kotzebue Sound/Hope Basin	5	0	RB42
Arctic Cisco	Kotzebue Sound/Hope Basin	6	0	RB42
Arctic Cisco	Norton Sound/St. Lawrence Is.	1	0	RB42
Arctic Cisco	Norton Sound/St. Lawrence Is.	2	0	RB42
Arctic Cisco	Norton Sound/St. Lawrence Is.	3	0	RB42
Arctic Cisco	Norton Sound/St. Lawrence Is.	4	0	RB42
Arctic Cisco	Norton Sound/St. Lawrence Is.	5	0	RB42
Arctic Cisco	Norton Sound/St. Lawrence Is.	6	0	RB42
Arctic Cisco	Offshore Kenai Peninsula	1	0	RB42
Arctic Cisco	Offshore Kenai Peninsula	2	0	RB42
Arctic Cisco	Offshore Kenai Peninsula	3	0	RB42
Arctic Cisco	Offshore Kenai Peninsula	4	0	RB42
Arctic Cisco	Offshore Kenai Peninsula	5	0	RB42
Arctic Cisco	Offshore Kenai Peninsula	6	0	RB42
Arctic Cisco	Prince William Sound	1	0	RB42
Arctic Cisco	Prince William Sound	2	0	RB42
Arctic Cisco	Prince William Sound	3	0	RB42
Arctic Cisco	Prince William Sound	4	0	RB42
Arctic Cisco	Prince William Sound	5	0	RB42
Arctic Cisco	Prince William Sound	6	0	RB42
Arctic Cisco	South-Central Alaska	1	0	RB42
Arctic Cisco	South-Central Alaska	2	0	RB42
Arctic Cisco	South-Central Alaska	3	0	RB42
Arctic Cisco	South-Central Alaska	4	0	RB42
Arctic Cisco	South-Central Alaska	5	0	RB42
Arctic Cisco	South-Central Alaska	6	0	RB42
Arctic Cisco	Southeast Alaska	1	0	RB42
Arctic Cisco	Southeast Alaska	2	0	RB42
Arctic Cisco	Southeast Alaska	3	0	RB42
Arctic Cisco	Southeast Alaska	4	0	RB42
Arctic Cisco	Southeast Alaska	5	0	RB42
Arctic Cisco	Southeast Alaska	6	0	RB42
Arctic Cisco	Western Alaska	1	0	RB42
Arctic Cisco	Western Alaska	2	0	RB42
Arctic Cisco	Western Alaska	3	0	RB42
Arctic Cisco	Western Alaska	4	0	RB42
Arctic Cisco	Western Alaska	5	0	RB42
Arctic Cisco	Western Alaska	6	0	RB42

Table 3. Arctic cod abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Arctic Cod	Aleutians	1	0.2	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aleutians	2	0.2	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aleutians	3	0.2	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aleutians	4	0.2	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aleutians	5	0.2	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aleutians	6	0.2	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aniakchak	1	0	DR37, DR43, RB43, RB44, RB45

Common_Name	AK_Region	Season	Abundance	References
Arctic Cod	Aniakchak	2	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aniakchak	3	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aniakchak	4	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aniakchak	5	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Aniakchak	6	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Beaufort Sea	1	0.6	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Beaufort Sea	2	0.6	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Beaufort Sea	3	0.6	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Beaufort Sea	4	0.6	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Beaufort Sea	5	0.6	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Beaufort Sea	6	0.6	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Bristol Bay	1	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Bristol Bay	2	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Bristol Bay	3	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Bristol Bay	4	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Bristol Bay	5	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Bristol Bay	6	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Chukchi Sea	1	1.0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Chukchi Sea	2	1.0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Chukchi Sea	3	1.0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Chukchi Sea	4	1.0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Chukchi Sea	5	1.0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Chukchi Sea	6	1.0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Cook Inlet	1	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Cook Inlet	2	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Cook Inlet	3	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Cook Inlet	4	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Cook Inlet	5	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Cook Inlet	6	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kodiak/Shelikof Strait	1	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kodiak/Shelikof Strait	2	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kodiak/Shelikof Strait	3	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kodiak/Shelikof Strait	4	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kodiak/Shelikof Strait	5	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kodiak/Shelikof Strait	6	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kotzebue Sound/Hope Basin	1	1	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kotzebue Sound/Hope Basin	2	1	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kotzebue Sound/Hope Basin	3	1	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kotzebue Sound/Hope Basin	4	1	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kotzebue Sound/Hope Basin	5	1	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Kotzebue Sound/Hope Basin	6	1	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Norton Sound/St. Lawrence Is.	1	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Norton Sound/St. Lawrence Is.	2	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Norton Sound/St. Lawrence Is.	3	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Norton Sound/St. Lawrence Is.	4	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Norton Sound/St. Lawrence Is.	5	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Norton Sound/St. Lawrence Is.	6	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Offshore Kenai Peninsula	1	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Offshore Kenai Peninsula	2	0	DR37, DR43, RB43, RB44, RB45

Common_Name	AK_Region	Season	Abundance	References
Arctic Cod	Offshore Kenai Peninsula	3	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Offshore Kenai Peninsula	4	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Offshore Kenai Peninsula	5	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Offshore Kenai Peninsula	6	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Prince William Sound	1	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Prince William Sound	2	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Prince William Sound	3	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Prince William Sound	4	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Prince William Sound	5	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Prince William Sound	6	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	South-Central Alaska	1	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	South-Central Alaska	2	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	South-Central Alaska	3	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	South-Central Alaska	4	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	South-Central Alaska	5	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	South-Central Alaska	6	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Southeast Alaska	1	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Southeast Alaska	2	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Southeast Alaska	3	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Southeast Alaska	4	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Southeast Alaska	5	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Southeast Alaska	6	0	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Western Alaska	1	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Western Alaska	2	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Western Alaska	3	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Western Alaska	4	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Western Alaska	5	0.4	DR37, DR43, RB43, RB44, RB45
Arctic Cod	Western Alaska	6	0.4	DR37, DR43, RB43, RB44, RB45

Table 4. Arrowtooth flounder abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Arrowtooth Flounder	Aleutians	1	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aleutians	2	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aleutians	3	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aleutians	4	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aleutians	5	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aleutians	6	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aniakchak	1	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aniakchak	2	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aniakchak	3	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aniakchak	4	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aniakchak	5	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Aniakchak	6	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Beaufort Sea	1	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Beaufort Sea	2	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Beaufort Sea	3	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Beaufort Sea	4	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Beaufort Sea	5	0	DR21, DR26, DR27, RB100

Common_Name	AK_Region	Season	Abundance	References
Arrowtooth Flounder	Beaufort Sea	6	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Bristol Bay	1	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Bristol Bay	2	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Bristol Bay	3	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Bristol Bay	4	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Bristol Bay	5	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Bristol Bay	6	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Chukchi Sea	1	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Chukchi Sea	2	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Chukchi Sea	3	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Chukchi Sea	4	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Chukchi Sea	5	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Chukchi Sea	6	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Cook Inlet	1	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Cook Inlet	2	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Cook Inlet	3	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Cook Inlet	4	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Cook Inlet	5	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Cook Inlet	6	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kodiak/Shelikof Strait	1	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kodiak/Shelikof Strait	2	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kodiak/Shelikof Strait	3	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kodiak/Shelikof Strait	4	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kodiak/Shelikof Strait	5	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kodiak/Shelikof Strait	6	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kotzebue Sound/Hope Basin	1	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kotzebue Sound/Hope Basin	2	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kotzebue Sound/Hope Basin	3	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kotzebue Sound/Hope Basin	4	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kotzebue Sound/Hope Basin	5	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Kotzebue Sound/Hope Basin	6	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Norton Sound/St. Lawrence Is.	1	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Norton Sound/St. Lawrence Is.	2	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Norton Sound/St. Lawrence Is.	3	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Norton Sound/St. Lawrence Is.	4	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Norton Sound/St. Lawrence Is.	5	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Norton Sound/St. Lawrence Is.	6	0	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Offshore Kenai Peninsula	1	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Offshore Kenai Peninsula	2	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Offshore Kenai Peninsula	3	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Offshore Kenai Peninsula	4	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Offshore Kenai Peninsula	5	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Offshore Kenai Peninsula	6	1	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Prince William Sound	1	0.2	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Prince William Sound	2	0.2	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Prince William Sound	3	0.2	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Prince William Sound	4	0.2	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Prince William Sound	5	0.2	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Prince William Sound	6	0.2	DR21, DR26, DR27, RB100

Common_Name	AK_Region	Season	Abundance	References
Arrowtooth Flounder	South-Central Alaska	1	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	South-Central Alaska	2	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	South-Central Alaska	3	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	South-Central Alaska	4	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	South-Central Alaska	5	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	South-Central Alaska	6	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Southeast Alaska	1	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Southeast Alaska	2	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Southeast Alaska	3	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Southeast Alaska	4	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Southeast Alaska	5	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Southeast Alaska	6	0.4	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Western Alaska	1	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Western Alaska	2	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Western Alaska	3	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Western Alaska	4	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Western Alaska	5	0.8	DR21, DR26, DR27, RB100
Arrowtooth Flounder	Western Alaska	6	0.8	DR21, DR26, DR27, RB100

Table 5. Atka mackerel abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Atka Mackerel	Aleutians	1	1	DR21, DR22, DR23, DR24
Atka Mackerel	Aleutians	2	1	DR21, DR22, DR23, DR24
Atka Mackerel	Aleutians	3	1	DR21, DR22, DR23, DR24
Atka Mackerel	Aleutians	4	1	DR21, DR22, DR23, DR24
Atka Mackerel	Aleutians	5	1	DR21, DR22, DR23, DR24
Atka Mackerel	Aleutians	6	1	DR21, DR22, DR23, DR24
Atka Mackerel	Aniakchak	1	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Aniakchak	2	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Aniakchak	3	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Aniakchak	4	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Aniakchak	5	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Aniakchak	6	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Beaufort Sea	1	0	DR21, DR22, DR23, DR24
Atka Mackerel	Beaufort Sea	2	0	DR21, DR22, DR23, DR24
Atka Mackerel	Beaufort Sea	3	0	DR21, DR22, DR23, DR24
Atka Mackerel	Beaufort Sea	4	0	DR21, DR22, DR23, DR24
Atka Mackerel	Beaufort Sea	5	0	DR21, DR22, DR23, DR24
Atka Mackerel	Beaufort Sea	6	0	DR21, DR22, DR23, DR24
Atka Mackerel	Bristol Bay	1	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Bristol Bay	2	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Bristol Bay	3	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Bristol Bay	4	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Bristol Bay	5	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Bristol Bay	6	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Chukchi Sea	1	0	DR21, DR22, DR23, DR24
Atka Mackerel	Chukchi Sea	2	0	DR21, DR22, DR23, DR24
Atka Mackerel	Chukchi Sea	3	0	DR21, DR22, DR23, DR24

Common_Name	AK_Region	Season	Abundance	References
Atka Mackerel	Chukchi Sea	4	0	DR21, DR22, DR23, DR24
Atka Mackerel	Chukchi Sea	5	0	DR21, DR22, DR23, DR24
Atka Mackerel	Chukchi Sea	6	0	DR21, DR22, DR23, DR24
Atka Mackerel	Cook Inlet	1	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Cook Inlet	2	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Cook Inlet	3	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Cook Inlet	4	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Cook Inlet	5	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Cook Inlet	6	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Kodiak/Shelikof Strait	1	0.4	DR21, DR22, DR23, DR24
Atka Mackerel	Kodiak/Shelikof Strait	2	0.4	DR21, DR22, DR23, DR24
Atka Mackerel	Kodiak/Shelikof Strait	3	0.4	DR21, DR22, DR23, DR24
Atka Mackerel	Kodiak/Shelikof Strait	4	0.4	DR21, DR22, DR23, DR24
Atka Mackerel	Kodiak/Shelikof Strait	5	0.4	DR21, DR22, DR23, DR24
Atka Mackerel	Kodiak/Shelikof Strait	6	0.4	DR21, DR22, DR23, DR24
Atka Mackerel	Kotzebue Sound/Hope Basin	1	0	DR21, DR22, DR23, DR24
Atka Mackerel	Kotzebue Sound/Hope Basin	2	0	DR21, DR22, DR23, DR24
Atka Mackerel	Kotzebue Sound/Hope Basin	3	0	DR21, DR22, DR23, DR24
Atka Mackerel	Kotzebue Sound/Hope Basin	4	0	DR21, DR22, DR23, DR24
Atka Mackerel	Kotzebue Sound/Hope Basin	5	0	DR21, DR22, DR23, DR24
Atka Mackerel	Kotzebue Sound/Hope Basin	6	0	DR21, DR22, DR23, DR24
Atka Mackerel	Norton Sound/St. Lawrence Is.	1	0	DR21, DR22, DR23, DR24
Atka Mackerel	Norton Sound/St. Lawrence Is.	2	0	DR21, DR22, DR23, DR24
Atka Mackerel	Norton Sound/St. Lawrence Is.	3	0	DR21, DR22, DR23, DR24
Atka Mackerel	Norton Sound/St. Lawrence Is.	4	0	DR21, DR22, DR23, DR24
Atka Mackerel	Norton Sound/St. Lawrence Is.	5	0	DR21, DR22, DR23, DR24
Atka Mackerel	Norton Sound/St. Lawrence Is.	6	0	DR21, DR22, DR23, DR24
Atka Mackerel	Offshore Kenai Peninsula	1	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Offshore Kenai Peninsula	2	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Offshore Kenai Peninsula	3	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Offshore Kenai Peninsula	4	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Offshore Kenai Peninsula	5	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Offshore Kenai Peninsula	6	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Prince William Sound	1	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Prince William Sound	2	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Prince William Sound	3	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Prince William Sound	4	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Prince William Sound	5	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Prince William Sound	6	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	South-Central Alaska	1	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	South-Central Alaska	2	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	South-Central Alaska	3	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	South-Central Alaska	4	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	South-Central Alaska	5	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	South-Central Alaska	6	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Southeast Alaska	1	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Southeast Alaska	2	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Southeast Alaska	3	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Southeast Alaska	4	0.2	DR21, DR22, DR23, DR24

Common_Name	AK_Region	Season	Abundance	References
Atka Mackerel	Southeast Alaska	5	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Southeast Alaska	6	0.2	DR21, DR22, DR23, DR24
Atka Mackerel	Western Alaska	1	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Western Alaska	2	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Western Alaska	3	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Western Alaska	4	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Western Alaska	5	0.6	DR21, DR22, DR23, DR24
Atka Mackerel	Western Alaska	6	0.6	DR21, DR22, DR23, DR24

Table 6. Bald eagle abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Bald Eagle	Aleutians	1	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aleutians	2	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aleutians	3	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aleutians	4	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aleutians	5	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aleutians	6	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aniakchak	1	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aniakchak	2	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aniakchak	3	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aniakchak	4	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aniakchak	5	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Aniakchak	6	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Beaufort Sea	1	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Beaufort Sea	2	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Beaufort Sea	3	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Beaufort Sea	4	0.2	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Beaufort Sea	5	0.2	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Beaufort Sea	6	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Bristol Bay	1	0.4	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Bristol Bay	2	0.4	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Bristol Bay	3	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36

Common_Name	AK_Region	Season	Abundance	References
Bald Eagle	Bristol Bay	4	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Bristol Bay	5	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Bristol Bay	6	0.4	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Chukchi Sea	1	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Chukchi Sea	2	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Chukchi Sea	3	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Chukchi Sea	4	0.2	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Chukchi Sea	5	0.2	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Chukchi Sea	6	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Cook Inlet	1	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Cook Inlet	2	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Cook Inlet	3	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Cook Inlet	4	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Cook Inlet	5	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Cook Inlet	6	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kodiak/Shelikof Strait	1	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kodiak/Shelikof Strait	2	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kodiak/Shelikof Strait	3	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kodiak/Shelikof Strait	4	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kodiak/Shelikof Strait	5	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kodiak/Shelikof Strait	6	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kotzebue Sound/Hope Basin	3	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kotzebue Sound/Hope Basin	4	0.2	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kotzebue Sound/Hope Basin	5	0.2	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Kotzebue Sound/Hope Basin	6	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36

Common_Name	AK_Region	Season	Abundance	References
Bald Eagle	Norton Sound/St. Lawrence Is.	3	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Norton Sound/St. Lawrence Is.	4	0.4	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Norton Sound/St. Lawrence Is.	5	0.4	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Norton Sound/St. Lawrence Is.	6	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Offshore Kenai Peninsula	1	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Offshore Kenai Peninsula	2	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Offshore Kenai Peninsula	3	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Offshore Kenai Peninsula	4	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Offshore Kenai Peninsula	5	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Offshore Kenai Peninsula	6	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Prince William Sound	1	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Prince William Sound	2	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Prince William Sound	3	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Prince William Sound	4	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Prince William Sound	5	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Prince William Sound	6	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	South-Central Alaska	1	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	South-Central Alaska	2	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	South-Central Alaska	3	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	South-Central Alaska	4	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	South-Central Alaska	5	0.8	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	South-Central Alaska	6	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Southeast Alaska	1	1.0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Southeast Alaska	2	1.0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Southeast Alaska	3	1.0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Southeast Alaska	4	1.0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Southeast Alaska	5	1.0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Southeast Alaska	6	1.0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Western Alaska	1	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36

Common_Name	AK_Region	Season	Abundance	References
Bald Eagle	Western Alaska	2	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Western Alaska	3	0.4	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Western Alaska	4	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Western Alaska	5	0.6	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Bald Eagle	Western Alaska	6	0	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36

Table 7. Beluga whale abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Beluga Whale	Aleutians	1	0.8	DR1, DR9
Beluga Whale	Aleutians	2	0.8	DR1, DR9
Beluga Whale	Aleutians	3	0	DR1, DR9
Beluga Whale	Aleutians	4	0	DR1, DR9
Beluga Whale	Aleutians	5	0	DR1, DR9
Beluga Whale	Aleutians	6	0.8	DR1, DR9
Beluga Whale	Aniakchak	1	0	DR1, DR9
Beluga Whale	Aniakchak	2	0	DR1, DR9
Beluga Whale	Aniakchak	3	0	DR1, DR9
Beluga Whale	Aniakchak	4	0	DR1, DR9
Beluga Whale	Aniakchak	5	0	DR1, DR9
Beluga Whale	Aniakchak	6	0	DR1, DR9
Beluga Whale	Beaufort Sea	1	0	DR1, DR9
Beluga Whale	Beaufort Sea	2	0	DR1, DR9
Beluga Whale	Beaufort Sea	3	0.8	DR1, DR9
Beluga Whale	Beaufort Sea	4	0.8	DR1, DR9
Beluga Whale	Beaufort Sea	5	0.8	DR1, DR9
Beluga Whale	Beaufort Sea	6	0	DR1, DR9
Beluga Whale	Bristol Bay	1	0.4	DR1, DR9
Beluga Whale	Bristol Bay	2	0.4	DR1, DR9
Beluga Whale	Bristol Bay	3	0.4	DR1, DR9
Beluga Whale	Bristol Bay	4	0.4	DR1, DR9
Beluga Whale	Bristol Bay	5	0.4	DR1, DR9
Beluga Whale	Bristol Bay	6	0.4	DR1, DR9
Beluga Whale	Chukchi Sea	1	0	DR1, DR9
Beluga Whale	Chukchi Sea	2	0	DR1, DR9
Beluga Whale	Chukchi Sea	3	0.4	DR1, DR9
Beluga Whale	Chukchi Sea	4	0.4	DR1, DR9
Beluga Whale	Chukchi Sea	5	0.4	DR1, DR9
Beluga Whale	Chukchi Sea	6	0	DR1, DR9
Beluga Whale	Cook Inlet	1	0.2	DR1, DR9
Beluga Whale	Cook Inlet	2	0.2	DR1, DR9
Beluga Whale	Cook Inlet	3	0.2	DR1, DR9
Beluga Whale	Cook Inlet	4	0.2	DR1, DR9
Beluga Whale	Cook Inlet	5	0.2	DR1, DR9
Beluga Whale	Cook Inlet	6	0.2	DR1, DR9

Common_Name	AK_Region	Season	Abundance	References
Beluga Whale	Kodiak/Shelikof Strait	1	0	DR1, DR9
Beluga Whale	Kodiak/Shelikof Strait	2	0	DR1, DR9
Beluga Whale	Kodiak/Shelikof Strait	3	0	DR1, DR9
Beluga Whale	Kodiak/Shelikof Strait	4	0	DR1, DR9
Beluga Whale	Kodiak/Shelikof Strait	5	0	DR1, DR9
Beluga Whale	Kodiak/Shelikof Strait	6	0	DR1, DR9
Beluga Whale	Kotzebue Sound/Hope Basin	1	0	DR1, DR9
Beluga Whale	Kotzebue Sound/Hope Basin	2	0	DR1, DR9
Beluga Whale	Kotzebue Sound/Hope Basin	3	0.4	DR1, DR9
Beluga Whale	Kotzebue Sound/Hope Basin	4	0.4	DR1, DR9
Beluga Whale	Kotzebue Sound/Hope Basin	5	0.4	DR1, DR9
Beluga Whale	Kotzebue Sound/Hope Basin	6	0	DR1, DR9
Beluga Whale	Norton Sound/St. Lawrence Is.	1	1	DR1, DR9
Beluga Whale	Norton Sound/St. Lawrence Is.	2	1	DR1, DR9
Beluga Whale	Norton Sound/St. Lawrence Is.	3	0.6	DR1, DR9
Beluga Whale	Norton Sound/St. Lawrence Is.	4	0.6	DR1, DR9
Beluga Whale	Norton Sound/St. Lawrence Is.	5	0.6	DR1, DR9
Beluga Whale	Norton Sound/St. Lawrence Is.	6	1	DR1, DR9
Beluga Whale	Offshore Kenai Peninsula	1	0	DR1, DR9
Beluga Whale	Offshore Kenai Peninsula	2	0	DR1, DR9
Beluga Whale	Offshore Kenai Peninsula	3	0	DR1, DR9
Beluga Whale	Offshore Kenai Peninsula	4	0	DR1, DR9
Beluga Whale	Offshore Kenai Peninsula	5	0	DR1, DR9
Beluga Whale	Offshore Kenai Peninsula	6	0	DR1, DR9
Beluga Whale	Prince William Sound	1	0	DR1, DR9
Beluga Whale	Prince William Sound	2	0	DR1, DR9
Beluga Whale	Prince William Sound	3	0	DR1, DR9
Beluga Whale	Prince William Sound	4	0	DR1, DR9
Beluga Whale	Prince William Sound	5	0	DR1, DR9
Beluga Whale	Prince William Sound	6	0	DR1, DR9
Beluga Whale	South-Central Alaska	1	0	DR1, DR9
Beluga Whale	South-Central Alaska	2	0	DR1, DR9
Beluga Whale	South-Central Alaska	3	0	DR1, DR9
Beluga Whale	South-Central Alaska	4	0	DR1, DR9
Beluga Whale	South-Central Alaska	5	0	DR1, DR9
Beluga Whale	South-Central Alaska	6	0	DR1, DR9
Beluga Whale	Southeast Alaska	1	0	DR1, DR9
Beluga Whale	Southeast Alaska	2	0	DR1, DR9
Beluga Whale	Southeast Alaska	3	0	DR1, DR9
Beluga Whale	Southeast Alaska	4	0	DR1, DR9
Beluga Whale	Southeast Alaska	5	0	DR1, DR9
Beluga Whale	Southeast Alaska	6	0	DR1, DR9
Beluga Whale	Western Alaska	1	1	DR1, DR9
Beluga Whale	Western Alaska	2	1	DR1, DR9
Beluga Whale	Western Alaska	3	0.2	DR1, DR9
Beluga Whale	Western Alaska	4	0.2	DR1, DR9
Beluga Whale	Western Alaska	5	0.2	DR1, DR9
Beluga Whale	Western Alaska	6	1	DR1, DR9

Table 8. Black-legged kittiwake abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Black-legged Kittiwake	Aleutians	1	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aleutians	2	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aleutians	3	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aleutians	4	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aleutians	5	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aleutians	6	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aniakchak	1	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aniakchak	2	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aniakchak	3	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aniakchak	4	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aniakchak	5	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Aniakchak	6	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Beaufort Sea	1	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Beaufort Sea	2	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Beaufort Sea	3	0.2	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Beaufort Sea	4	0.2	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Beaufort Sea	5	0.2	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Beaufort Sea	6	0.2	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Bristol Bay	1	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Bristol Bay	2	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Bristol Bay	3	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Bristol Bay	4	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Bristol Bay	5	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Bristol Bay	6	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Chukchi Sea	1	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Chukchi Sea	2	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Chukchi Sea	3	0.2	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Chukchi Sea	4	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Chukchi Sea	5	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Chukchi Sea	6	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Cook Inlet	1	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Cook Inlet	2	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Cook Inlet	3	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Cook Inlet	4	1.0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Cook Inlet	5	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Cook Inlet	6	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kodiak/Shelikof Strait	1	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kodiak/Shelikof Strait	2	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kodiak/Shelikof Strait	3	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kodiak/Shelikof Strait	4	1.0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kodiak/Shelikof Strait	5	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kodiak/Shelikof Strait	6	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kotzebue Sound/Hope Basin	3	0.2	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kotzebue Sound/Hope Basin	4	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kotzebue Sound/Hope Basin	5	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Kotzebue Sound/Hope Basin	6	0.4	RB1, RB2, RB3, RB8, RB17, RB18

Common_Name	AK_Region	Season	Abundance	References
Black-legged Kittiwake	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Norton Sound/St. Lawrence Is.	3	0.2	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Norton Sound/St. Lawrence Is.	4	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Norton Sound/St. Lawrence Is.	5	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Norton Sound/St. Lawrence Is.	6	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Offshore Kenai Peninsula	1	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Offshore Kenai Peninsula	2	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Offshore Kenai Peninsula	3	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Offshore Kenai Peninsula	4	1.0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Offshore Kenai Peninsula	5	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Offshore Kenai Peninsula	6	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Prince William Sound	1	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Prince William Sound	2	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Prince William Sound	3	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Prince William Sound	4	1.0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Prince William Sound	5	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Prince William Sound	6	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	South-Central Alaska	1	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	South-Central Alaska	2	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	South-Central Alaska	3	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	South-Central Alaska	4	1.0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	South-Central Alaska	5	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	South-Central Alaska	6	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Southeast Alaska	1	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Southeast Alaska	2	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Southeast Alaska	3	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Southeast Alaska	4	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Southeast Alaska	5	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Southeast Alaska	6	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Western Alaska	1	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Western Alaska	2	0	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Western Alaska	3	0.6	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Western Alaska	4	0.8	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Western Alaska	5	0.4	RB1, RB2, RB3, RB8, RB17, RB18
Black-legged Kittiwake	Western Alaska	6	0.4	RB1, RB2, RB3, RB8, RB17, RB18

Table 9. Bowhead whale abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Bowhead Whale	Aleutians	1	0	DR1, DR8, DR10
Bowhead Whale	Aleutians	2	0	DR1, DR8, DR10
Bowhead Whale	Aleutians	3	0	DR1, DR8, DR10
Bowhead Whale	Aleutians	4	0	DR1, DR8, DR10
Bowhead Whale	Aleutians	5	0	DR1, DR8, DR10
Bowhead Whale	Aleutians	6	0	DR1, DR8, DR10
Bowhead Whale	Aniakchak	1	0	DR1, DR8, DR10
Bowhead Whale	Aniakchak	2	0	DR1, DR8, DR10
Bowhead Whale	Aniakchak	3	0	DR1, DR8, DR10

Common_Name	AK_Region	Season	Abundance	References
Bowhead Whale	Aniakchak	4	0	DR1, DR8, DR10
Bowhead Whale	Aniakchak	5	0	DR1, DR8, DR10
Bowhead Whale	Aniakchak	6	0	DR1, DR8, DR10
Bowhead Whale	Beaufort Sea	1	0	DR1, DR8, DR10
Bowhead Whale	Beaufort Sea	2	0	DR1, DR8, DR10
Bowhead Whale	Beaufort Sea	3	0.4	DR1, DR8, DR10
Bowhead Whale	Beaufort Sea	4	0.6	DR1, DR8, DR10
Bowhead Whale	Beaufort Sea	5	1	DR1, DR8, DR10
Bowhead Whale	Beaufort Sea	6	0.4	DR1, DR8, DR10
Bowhead Whale	Bristol Bay	1	0	DR1, DR8, DR10
Bowhead Whale	Bristol Bay	2	0	DR1, DR8, DR10
Bowhead Whale	Bristol Bay	3	0	DR1, DR8, DR10
Bowhead Whale	Bristol Bay	4	0	DR1, DR8, DR10
Bowhead Whale	Bristol Bay	5	0	DR1, DR8, DR10
Bowhead Whale	Bristol Bay	6	0	DR1, DR8, DR10
Bowhead Whale	Chukchi Sea	1	0	DR1, DR8, DR10
Bowhead Whale	Chukchi Sea	2	0	DR1, DR8, DR10
Bowhead Whale	Chukchi Sea	3	0.8	DR1, DR8, DR10
Bowhead Whale	Chukchi Sea	4	0.2	DR1, DR8, DR10
Bowhead Whale	Chukchi Sea	5	0.2	DR1, DR8, DR10
Bowhead Whale	Chukchi Sea	6	0.8	DR1, DR8, DR10
Bowhead Whale	Cook Inlet	1	0	DR1, DR8, DR10
Bowhead Whale	Cook Inlet	2	0	DR1, DR8, DR10
Bowhead Whale	Cook Inlet	3	0	DR1, DR8, DR10
Bowhead Whale	Cook Inlet	4	0	DR1, DR8, DR10
Bowhead Whale	Cook Inlet	5	0	DR1, DR8, DR10
Bowhead Whale	Cook Inlet	6	0	DR1, DR8, DR10
Bowhead Whale	Kodiak/Shelikof Strait	1	0	DR1, DR8, DR10
Bowhead Whale	Kodiak/Shelikof Strait	2	0	DR1, DR8, DR10
Bowhead Whale	Kodiak/Shelikof Strait	3	0	DR1, DR8, DR10
Bowhead Whale	Kodiak/Shelikof Strait	4	0	DR1, DR8, DR10
Bowhead Whale	Kodiak/Shelikof Strait	5	0	DR1, DR8, DR10
Bowhead Whale	Kodiak/Shelikof Strait	6	0	DR1, DR8, DR10
Bowhead Whale	Kotzebue Sound/Hope Basin	1	0.2	DR1, DR8, DR10
Bowhead Whale	Kotzebue Sound/Hope Basin	2	0.2	DR1, DR8, DR10
Bowhead Whale	Kotzebue Sound/Hope Basin	3	0.8	DR1, DR8, DR10
Bowhead Whale	Kotzebue Sound/Hope Basin	4	0.2	DR1, DR8, DR10
Bowhead Whale	Kotzebue Sound/Hope Basin	5	0.2	DR1, DR8, DR10
Bowhead Whale	Kotzebue Sound/Hope Basin	6	0.8	DR1, DR8, DR10
Bowhead Whale	Norton Sound/St. Lawrence Is.	1	0.6	DR1, DR8, DR10
Bowhead Whale	Norton Sound/St. Lawrence Is.	2	0.6	DR1, DR8, DR10
Bowhead Whale	Norton Sound/St. Lawrence Is.	3	0.4	DR1, DR8, DR10
Bowhead Whale	Norton Sound/St. Lawrence Is.	4	0.2	DR1, DR8, DR10
Bowhead Whale	Norton Sound/St. Lawrence Is.	5	0.2	DR1, DR8, DR10
Bowhead Whale	Norton Sound/St. Lawrence Is.	6	0.4	DR1, DR8, DR10
Bowhead Whale	Offshore Kenai Peninsula	1	0	DR1, DR8, DR10
Bowhead Whale	Offshore Kenai Peninsula	2	0	DR1, DR8, DR10
Bowhead Whale	Offshore Kenai Peninsula	3	0	DR1, DR8, DR10
Bowhead Whale	Offshore Kenai Peninsula	4	0	DR1, DR8, DR10

Common_Name	AK_Region	Season	Abundance	References
Bowhead Whale	Offshore Kenai Peninsula	5	0	DR1, DR8, DR10
Bowhead Whale	Offshore Kenai Peninsula	6	0	DR1, DR8, DR10
Bowhead Whale	Prince William Sound	1	0	DR1, DR8, DR10
Bowhead Whale	Prince William Sound	2	0	DR1, DR8, DR10
Bowhead Whale	Prince William Sound	3	0	DR1, DR8, DR10
Bowhead Whale	Prince William Sound	4	0	DR1, DR8, DR10
Bowhead Whale	Prince William Sound	5	0	DR1, DR8, DR10
Bowhead Whale	Prince William Sound	6	0	DR1, DR8, DR10
Bowhead Whale	South-Central Alaska	1	0	DR1, DR8, DR10
Bowhead Whale	South-Central Alaska	2	0	DR1, DR8, DR10
Bowhead Whale	South-Central Alaska	3	0	DR1, DR8, DR10
Bowhead Whale	South-Central Alaska	4	0	DR1, DR8, DR10
Bowhead Whale	South-Central Alaska	5	0	DR1, DR8, DR10
Bowhead Whale	South-Central Alaska	6	0	DR1, DR8, DR10
Bowhead Whale	Southeast Alaska	1	0	DR1, DR8, DR10
Bowhead Whale	Southeast Alaska	2	0	DR1, DR8, DR10
Bowhead Whale	Southeast Alaska	3	0	DR1, DR8, DR10
Bowhead Whale	Southeast Alaska	4	0	DR1, DR8, DR10
Bowhead Whale	Southeast Alaska	5	0	DR1, DR8, DR10
Bowhead Whale	Southeast Alaska	6	0	DR1, DR8, DR10
Bowhead Whale	Western Alaska	1	0.6	DR1, DR8, DR10
Bowhead Whale	Western Alaska	2	0.6	DR1, DR8, DR10
Bowhead Whale	Western Alaska	3	0.4	DR1, DR8, DR10
Bowhead Whale	Western Alaska	4	0.2	DR1, DR8, DR10
Bowhead Whale	Western Alaska	5	0.2	DR1, DR8, DR10
Bowhead Whale	Western Alaska	6	0.4	DR1, DR8, DR10

Table 10. Common murre abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Common Murre	Aleutians	1	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Aleutians	2	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Aleutians	3	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Aleutians	4	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Aleutians	5	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Aleutians	6	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Aniakchak	1	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Aniakchak	2	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Aniakchak	3	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Aniakchak	4	1.0	RB1, RB2, RB3, RB28, RB29
Common Murre	Aniakchak	5	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Aniakchak	6	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Beaufort Sea	1	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Beaufort Sea	2	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Beaufort Sea	3	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Beaufort Sea	4	0.2	RB1, RB2, RB3, RB28, RB29
Common Murre	Beaufort Sea	5	0.2	RB1, RB2, RB3, RB28, RB29
Common Murre	Beaufort Sea	6	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Bristol Bay	1	0.6	RB1, RB2, RB3, RB28, RB29

Common_Name	AK_Region	Season	Abundance	References
Common Murre	Bristol Bay	2	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Bristol Bay	3	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Bristol Bay	4	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Bristol Bay	5	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Bristol Bay	6	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Chukchi Sea	1	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Chukchi Sea	2	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Chukchi Sea	3	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Chukchi Sea	4	0.2	RB1, RB2, RB3, RB28, RB29
Common Murre	Chukchi Sea	5	0.2	RB1, RB2, RB3, RB28, RB29
Common Murre	Chukchi Sea	6	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Cook Inlet	1	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Cook Inlet	2	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Cook Inlet	3	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Cook Inlet	4	1.0	RB1, RB2, RB3, RB28, RB29
Common Murre	Cook Inlet	5	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Cook Inlet	6	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Kodiak/Shelikof Strait	1	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Kodiak/Shelikof Strait	2	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Kodiak/Shelikof Strait	3	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Kodiak/Shelikof Strait	4	1.0	RB1, RB2, RB3, RB28, RB29
Common Murre	Kodiak/Shelikof Strait	5	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Kodiak/Shelikof Strait	6	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB28, RB29
Common Murre	Kotzebue Sound/Hope Basin	3	0.2	RB1, RB2, RB3, RB28, RB29
Common Murre	Kotzebue Sound/Hope Basin	4	0.2	RB1, RB2, RB3, RB28, RB29
Common Murre	Kotzebue Sound/Hope Basin	5	0.2	RB1, RB2, RB3, RB28, RB29
Common Murre	Kotzebue Sound/Hope Basin	6	0.2	RB1, RB2, RB3, RB28, RB29
Common Murre	Norton Sound/St. Lawrence Is.	1	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Norton Sound/St. Lawrence Is.	2	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Norton Sound/St. Lawrence Is.	3	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Norton Sound/St. Lawrence Is.	4	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Norton Sound/St. Lawrence Is.	5	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Norton Sound/St. Lawrence Is.	6	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Offshore Kenai Peninsula	1	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Offshore Kenai Peninsula	2	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Offshore Kenai Peninsula	3	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Offshore Kenai Peninsula	4	1.0	RB1, RB2, RB3, RB28, RB29
Common Murre	Offshore Kenai Peninsula	5	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Offshore Kenai Peninsula	6	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Prince William Sound	1	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Prince William Sound	2	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Prince William Sound	3	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Prince William Sound	4	1	RB1, RB2, RB3, RB28, RB29
Common Murre	Prince William Sound	5	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Prince William Sound	6	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	South-Central Alaska	1	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	South-Central Alaska	2	0.6	RB1, RB2, RB3, RB28, RB29

Common_Name	AK_Region	Season	Abundance	References
Common Murre	South-Central Alaska	3	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	South-Central Alaska	4	1	RB1, RB2, RB3, RB28, RB29
Common Murre	South-Central Alaska	5	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	South-Central Alaska	6	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Southeast Alaska	1	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Southeast Alaska	2	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Southeast Alaska	3	1.0	RB1, RB2, RB3, RB28, RB29
Common Murre	Southeast Alaska	4	1.0	RB1, RB2, RB3, RB28, RB29
Common Murre	Southeast Alaska	5	1.0	RB1, RB2, RB3, RB28, RB29
Common Murre	Southeast Alaska	6	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Western Alaska	1	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Western Alaska	2	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Western Alaska	3	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Western Alaska	4	0.8	RB1, RB2, RB3, RB28, RB29
Common Murre	Western Alaska	5	0.6	RB1, RB2, RB3, RB28, RB29
Common Murre	Western Alaska	6	0.6	RB1, RB2, RB3, RB28, RB29

Table 11. Dunlin abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Dunlin	Aleutians	1	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Aleutians	2	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Aleutians	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Aleutians	4	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Aleutians	5	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Aleutians	6	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Aniakchak	1	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Aniakchak	2	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Aniakchak	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Aniakchak	4	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Aniakchak	5	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Aniakchak	6	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Beaufort Sea	1	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Beaufort Sea	2	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Beaufort Sea	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Beaufort Sea	4	1.0	RB1, RB2, RB3, RB21, RB22
Dunlin	Beaufort Sea	5	0.8	RB1, RB2, RB3, RB21, RB22
Dunlin	Beaufort Sea	6	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Bristol Bay	1	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Bristol Bay	2	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Bristol Bay	3	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Bristol Bay	4	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Bristol Bay	5	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Bristol Bay	6	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Chukchi Sea	1	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Chukchi Sea	2	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Chukchi Sea	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Chukchi Sea	4	1.0	RB1, RB2, RB3, RB21, RB22
Dunlin	Chukchi Sea	5	0.8	RB1, RB2, RB3, RB21, RB22

Common_Name	AK_Region	Season	Abundance	References
Dunlin	Chukchi Sea	6	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Cook Inlet	1	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Cook Inlet	2	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Cook Inlet	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Cook Inlet	4	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Cook Inlet	5	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Cook Inlet	6	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Kodiak/Shelikof Strait	1	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Kodiak/Shelikof Strait	2	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Kodiak/Shelikof Strait	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Kodiak/Shelikof Strait	4	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Kodiak/Shelikof Strait	5	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Kodiak/Shelikof Strait	6	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Kotzebue Sound/Hope Basin	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Kotzebue Sound/Hope Basin	4	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Kotzebue Sound/Hope Basin	5	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Kotzebue Sound/Hope Basin	6	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Norton Sound/St. Lawrence Is.	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Norton Sound/St. Lawrence Is.	4	0.8	RB1, RB2, RB3, RB21, RB22
Dunlin	Norton Sound/St. Lawrence Is.	5	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Norton Sound/St. Lawrence Is.	6	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Offshore Kenai Peninsula	1	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Offshore Kenai Peninsula	2	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Offshore Kenai Peninsula	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Offshore Kenai Peninsula	4	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Offshore Kenai Peninsula	5	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Offshore Kenai Peninsula	6	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Prince William Sound	1	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Prince William Sound	2	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Prince William Sound	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Prince William Sound	4	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Prince William Sound	5	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Prince William Sound	6	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	South-Central Alaska	1	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	South-Central Alaska	2	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	South-Central Alaska	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	South-Central Alaska	4	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	South-Central Alaska	5	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	South-Central Alaska	6	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Southeast Alaska	1	0.4	RB1, RB2, RB3, RB21, RB22
Dunlin	Southeast Alaska	2	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Southeast Alaska	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Southeast Alaska	4	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Southeast Alaska	5	0.2	RB1, RB2, RB3, RB21, RB22
Dunlin	Southeast Alaska	6	0.4	RB1, RB2, RB3, RB21, RB22

Common_Name	AK_Region	Season	Abundance	References
Dunlin	Western Alaska	1	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Western Alaska	2	0	RB1, RB2, RB3, RB21, RB22
Dunlin	Western Alaska	3	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Western Alaska	4	0.8	RB1, RB2, RB3, RB21, RB22
Dunlin	Western Alaska	5	0.6	RB1, RB2, RB3, RB21, RB22
Dunlin	Western Alaska	6	0.2	RB1, RB2, RB3, RB21, RB22

Table 12. Euphausiid abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Euphausiids	Aleutians	1	0.4	DR38
Euphausiids	Aleutians	2	0.6	DR38
Euphausiids	Aleutians	3	1.0	DR38
Euphausiids	Aleutians	4	1.0	DR38
Euphausiids	Aleutians	5	1.0	DR38
Euphausiids	Aleutians	6	0.8	DR38
Euphausiids	Aniakchak	1	0.2	DR38
Euphausiids	Aniakchak	2	0.2	DR38
Euphausiids	Aniakchak	3	0.2	DR38
Euphausiids	Aniakchak	4	0.2	DR38
Euphausiids	Aniakchak	5	0.2	DR38
Euphausiids	Aniakchak	6	0.2	DR38
Euphausiids	Beaufort Sea	1	0.2	DR38
Euphausiids	Beaufort Sea	2	0.2	DR38
Euphausiids	Beaufort Sea	3	0.2	DR38
Euphausiids	Beaufort Sea	4	0.2	DR38
Euphausiids	Beaufort Sea	5	0.2	DR38
Euphausiids	Beaufort Sea	6	0.2	DR38
Euphausiids	Bristol Bay	1	0.2	DR38
Euphausiids	Bristol Bay	2	0.2	DR38
Euphausiids	Bristol Bay	3	0.2	DR38
Euphausiids	Bristol Bay	4	0.2	DR38
Euphausiids	Bristol Bay	5	0.2	DR38
Euphausiids	Bristol Bay	6	0.2	DR38
Euphausiids	Chukchi Sea	1	0.2	DR38
Euphausiids	Chukchi Sea	2	0.2	DR38
Euphausiids	Chukchi Sea	3	0.2	DR38
Euphausiids	Chukchi Sea	4	0.2	DR38
Euphausiids	Chukchi Sea	5	0.2	DR38
Euphausiids	Chukchi Sea	6	0.2	DR38
Euphausiids	Cook Inlet	1	0.2	DR38
Euphausiids	Cook Inlet	2	0.2	DR38
Euphausiids	Cook Inlet	3	0.4	DR38
Euphausiids	Cook Inlet	4	0.4	DR38
Euphausiids	Cook Inlet	5	0.2	DR38
Euphausiids	Cook Inlet	6	0.2	DR38
Euphausiids	Kodiak/Shelikof Strait	1	0.2	DR38
Euphausiids	Kodiak/Shelikof Strait	2	0.2	DR38
Euphausiids	Kodiak/Shelikof Strait	3	0.6	DR38

Common_Name	AK_Region	Season	Abundance	References
Euphausiids	Kodiak/Shelikof Strait	4	0.6	DR38
Euphausiids	Kodiak/Shelikof Strait	5	0.4	DR38
Euphausiids	Kodiak/Shelikof Strait	6	0.2	DR38
Euphausiids	Kotzebue Sound/Hope Basin	1	0.6	DR38
Euphausiids	Kotzebue Sound/Hope Basin	2	0.6	DR38
Euphausiids	Kotzebue Sound/Hope Basin	3	0.8	DR38
Euphausiids	Kotzebue Sound/Hope Basin	4	0.8	DR38
Euphausiids	Kotzebue Sound/Hope Basin	5	0.8	DR38
Euphausiids	Kotzebue Sound/Hope Basin	6	0.6	DR38
Euphausiids	Norton Sound/St. Lawrence Is.	1	0.4	DR38
Euphausiids	Norton Sound/St. Lawrence Is.	2	0.4	DR38
Euphausiids	Norton Sound/St. Lawrence Is.	3	0.4	DR38
Euphausiids	Norton Sound/St. Lawrence Is.	4	0.8	DR38
Euphausiids	Norton Sound/St. Lawrence Is.	5	0.8	DR38
Euphausiids	Norton Sound/St. Lawrence Is.	6	0.4	DR38
Euphausiids	Offshore Kenai Peninsula	1	0.2	DR38
Euphausiids	Offshore Kenai Peninsula	2	0.2	DR38
Euphausiids	Offshore Kenai Peninsula	3	0.2	DR38
Euphausiids	Offshore Kenai Peninsula	4	0.2	DR38
Euphausiids	Offshore Kenai Peninsula	5	0.2	DR38
Euphausiids	Offshore Kenai Peninsula	6	0.2	DR38
Euphausiids	Prince William Sound	1	0.2	DR38
Euphausiids	Prince William Sound	2	0.2	DR38
Euphausiids	Prince William Sound	3	0.2	DR38
Euphausiids	Prince William Sound	4	0.4	DR38
Euphausiids	Prince William Sound	5	0.2	DR38
Euphausiids	Prince William Sound	6	0.2	DR38
Euphausiids	South-Central Alaska	1	0.2	DR38
Euphausiids	South-Central Alaska	2	0.2	DR38
Euphausiids	South-Central Alaska	3	0.2	DR38
Euphausiids	South-Central Alaska	4	0.4	DR38
Euphausiids	South-Central Alaska	5	0.2	DR38
Euphausiids	South-Central Alaska	6	0.2	DR38
Euphausiids	Southeast Alaska	1	0.2	DR38
Euphausiids	Southeast Alaska	2	0.2	DR38
Euphausiids	Southeast Alaska	3	0.2	DR38
Euphausiids	Southeast Alaska	4	0.4	DR38
Euphausiids	Southeast Alaska	5	0.2	DR38
Euphausiids	Southeast Alaska	6	0.2	DR38
Euphausiids	Western Alaska	1	0.4	DR38
Euphausiids	Western Alaska	2	0.6	DR38
Euphausiids	Western Alaska	3	0.8	DR38
Euphausiids	Western Alaska	4	0.8	DR38
Euphausiids	Western Alaska	5	0.8	DR38
Euphausiids	Western Alaska	6	0.6	DR38

Table 13. Harlequin duck abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Harlequin Duck	Aleutians	1	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aleutians	2	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aleutians	3	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aleutians	4	1.0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aleutians	5	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aleutians	6	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aniakchak	1	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aniakchak	2	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aniakchak	3	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aniakchak	4	1.0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aniakchak	5	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Aniakchak	6	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Beaufort Sea	1	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Beaufort Sea	2	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Beaufort Sea	3	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Beaufort Sea	4	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Beaufort Sea	5	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Beaufort Sea	6	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Bristol Bay	1	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Bristol Bay	2	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Bristol Bay	3	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Bristol Bay	4	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Bristol Bay	5	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Bristol Bay	6	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Chukchi Sea	1	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Chukchi Sea	2	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Chukchi Sea	3	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Chukchi Sea	4	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Chukchi Sea	5	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Chukchi Sea	6	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Cook Inlet	1	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Cook Inlet	2	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Cook Inlet	3	1.0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Cook Inlet	4	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Cook Inlet	5	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Cook Inlet	6	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kodiak/Shelikof Strait	1	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kodiak/Shelikof Strait	2	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kodiak/Shelikof Strait	3	1.0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kodiak/Shelikof Strait	4	1.0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kodiak/Shelikof Strait	5	1.0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kodiak/Shelikof Strait	6	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kotzebue Sound/Hope Basin	3	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kotzebue Sound/Hope Basin	4	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kotzebue Sound/Hope Basin	5	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Kotzebue Sound/Hope Basin	6	0.2	RB1, RB2, RB3, RB23, RB24

Common_Name	AK_Region	Season	Abundance	References
Harlequin Duck	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Norton Sound/St. Lawrence Is.	3	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Norton Sound/St. Lawrence Is.	4	1.0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Norton Sound/St. Lawrence Is.	5	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Norton Sound/St. Lawrence Is.	6	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Offshore Kenai Peninsula	1	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Offshore Kenai Peninsula	2	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Offshore Kenai Peninsula	3	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Offshore Kenai Peninsula	4	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Offshore Kenai Peninsula	5	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Offshore Kenai Peninsula	6	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Prince William Sound	1	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Prince William Sound	2	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Prince William Sound	3	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Prince William Sound	4	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Prince William Sound	5	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Prince William Sound	6	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	South-Central Alaska	1	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	South-Central Alaska	2	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	South-Central Alaska	3	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	South-Central Alaska	4	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	South-Central Alaska	5	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	South-Central Alaska	6	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Southeast Alaska	1	0.4	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Southeast Alaska	2	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Southeast Alaska	3	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Southeast Alaska	4	0.8	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Southeast Alaska	5	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Southeast Alaska	6	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Western Alaska	1	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Western Alaska	2	0	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Western Alaska	3	0.2	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Western Alaska	4	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Western Alaska	5	0.6	RB1, RB2, RB3, RB23, RB24
Harlequin Duck	Western Alaska	6	0.2	RB1, RB2, RB3, RB23, RB24

Table 14. Humpback whale abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Humpback Whale	Aleutians	1	0.2	DR1, DR14, DR15
Humpback Whale	Aleutians	2	0.2	DR1, DR14, DR15
Humpback Whale	Aleutians	3	0.6	DR1, DR14, DR15
Humpback Whale	Aleutians	4	1	DR1, DR14, DR15
Humpback Whale	Aleutians	5	1	DR1, DR14, DR15
Humpback Whale	Aleutians	6	0.6	DR1, DR14, DR15
Humpback Whale	Aniakchak	1	0.2	DR1, DR14, DR15
Humpback Whale	Aniakchak	2	0.2	DR1, DR14, DR15
Humpback Whale	Aniakchak	3	0.4	DR1, DR14, DR15

Common_Name	AK_Region	Season	Abundance	References
Humpback Whale	Aniakchak	4	0.8	DR1, DR14, DR15
Humpback Whale	Aniakchak	5	0.8	DR1, DR14, DR15
Humpback Whale	Aniakchak	6	0.4	DR1, DR14, DR15
Humpback Whale	Beaufort Sea	1	0	DR1, DR14, DR15
Humpback Whale	Beaufort Sea	2	0	DR1, DR14, DR15
Humpback Whale	Beaufort Sea	3	0.2	DR1, DR14, DR15
Humpback Whale	Beaufort Sea	4	0.2	DR1, DR14, DR15
Humpback Whale	Beaufort Sea	5	0.2	DR1, DR14, DR15
Humpback Whale	Beaufort Sea	6	0.2	DR1, DR14, DR15
Humpback Whale	Bristol Bay	1	0.2	DR1, DR14, DR15
Humpback Whale	Bristol Bay	2	0.2	DR1, DR14, DR15
Humpback Whale	Bristol Bay	3	0.2	DR1, DR14, DR15
Humpback Whale	Bristol Bay	4	0.6	DR1, DR14, DR15
Humpback Whale	Bristol Bay	5	0.6	DR1, DR14, DR15
Humpback Whale	Bristol Bay	6	0.2	DR1, DR14, DR15
Humpback Whale	Chukchi Sea	1	0	DR1, DR14, DR15
Humpback Whale	Chukchi Sea	2	0	DR1, DR14, DR15
Humpback Whale	Chukchi Sea	3	0.2	DR1, DR14, DR15
Humpback Whale	Chukchi Sea	4	0.2	DR1, DR14, DR15
Humpback Whale	Chukchi Sea	5	0.2	DR1, DR14, DR15
Humpback Whale	Chukchi Sea	6	0.2	DR1, DR14, DR15
Humpback Whale	Cook Inlet	1	0.2	DR1, DR14, DR15
Humpback Whale	Cook Inlet	2	0.2	DR1, DR14, DR15
Humpback Whale	Cook Inlet	3	0.2	DR1, DR14, DR15
Humpback Whale	Cook Inlet	4	0.6	DR1, DR14, DR15
Humpback Whale	Cook Inlet	5	0.6	DR1, DR14, DR15
Humpback Whale	Cook Inlet	6	0.2	DR1, DR14, DR15
Humpback Whale	Kodiak/Shelikof Strait	1	0.2	DR1, DR14, DR15
Humpback Whale	Kodiak/Shelikof Strait	2	0.2	DR1, DR14, DR15
Humpback Whale	Kodiak/Shelikof Strait	3	0.4	DR1, DR14, DR15
Humpback Whale	Kodiak/Shelikof Strait	4	0.8	DR1, DR14, DR15
Humpback Whale	Kodiak/Shelikof Strait	5	0.8	DR1, DR14, DR15
Humpback Whale	Kodiak/Shelikof Strait	6	0.4	DR1, DR14, DR15
Humpback Whale	Kotzebue Sound/Hope Basin	1	0	DR1, DR14, DR15
Humpback Whale	Kotzebue Sound/Hope Basin	2	0	DR1, DR14, DR15
Humpback Whale	Kotzebue Sound/Hope Basin	3	0.2	DR1, DR14, DR15
Humpback Whale	Kotzebue Sound/Hope Basin	4	0.2	DR1, DR14, DR15
Humpback Whale	Kotzebue Sound/Hope Basin	5	0.2	DR1, DR14, DR15
Humpback Whale	Kotzebue Sound/Hope Basin	6	0.2	DR1, DR14, DR15
Humpback Whale	Norton Sound/St. Lawrence Is.	1	0.2	DR1, DR14, DR15
Humpback Whale	Norton Sound/St. Lawrence Is.	2	0.2	DR1, DR14, DR15
Humpback Whale	Norton Sound/St. Lawrence Is.	3	0.2	DR1, DR14, DR15
Humpback Whale	Norton Sound/St. Lawrence Is.	4	0.2	DR1, DR14, DR15
Humpback Whale	Norton Sound/St. Lawrence Is.	5	0.2	DR1, DR14, DR15
Humpback Whale	Norton Sound/St. Lawrence Is.	6	0.2	DR1, DR14, DR15
Humpback Whale	Offshore Kenai Peninsula	1	0.2	DR1, DR14, DR15
Humpback Whale	Offshore Kenai Peninsula	2	0.2	DR1, DR14, DR15
Humpback Whale	Offshore Kenai Peninsula	3	0.4	DR1, DR14, DR15
Humpback Whale	Offshore Kenai Peninsula	4	0.8	DR1, DR14, DR15

Common_Name	AK_Region	Season	Abundance	References
Humpback Whale	Offshore Kenai Peninsula	5	0.8	DR1, DR14, DR15
Humpback Whale	Offshore Kenai Peninsula	6	0.4	DR1, DR14, DR15
Humpback Whale	Prince William Sound	1	0.2	DR1, DR14, DR15
Humpback Whale	Prince William Sound	2	0.2	DR1, DR14, DR15
Humpback Whale	Prince William Sound	3	0.2	DR1, DR14, DR15
Humpback Whale	Prince William Sound	4	0.6	DR1, DR14, DR15
Humpback Whale	Prince William Sound	5	0.6	DR1, DR14, DR15
Humpback Whale	Prince William Sound	6	0.2	DR1, DR14, DR15
Humpback Whale	South-Central Alaska	1	0.2	DR1, DR14, DR15
Humpback Whale	South-Central Alaska	2	0.2	DR1, DR14, DR15
Humpback Whale	South-Central Alaska	3	0.4	DR1, DR14, DR15
Humpback Whale	South-Central Alaska	4	0.8	DR1, DR14, DR15
Humpback Whale	South-Central Alaska	5	0.8	DR1, DR14, DR15
Humpback Whale	South-Central Alaska	6	0.4	DR1, DR14, DR15
Humpback Whale	Southeast Alaska	1	0.2	DR1, DR14, DR15
Humpback Whale	Southeast Alaska	2	0.2	DR1, DR14, DR15
Humpback Whale	Southeast Alaska	3	0.4	DR1, DR14, DR15
Humpback Whale	Southeast Alaska	4	0.8	DR1, DR14, DR15
Humpback Whale	Southeast Alaska	5	0.8	DR1, DR14, DR15
Humpback Whale	Southeast Alaska	6	0.4	DR1, DR14, DR15
Humpback Whale	Western Alaska	1	0.2	DR1, DR14, DR15
Humpback Whale	Western Alaska	2	0.2	DR1, DR14, DR15
Humpback Whale	Western Alaska	3	0.2	DR1, DR14, DR15
Humpback Whale	Western Alaska	4	0.4	DR1, DR14, DR15
Humpback Whale	Western Alaska	5	0.4	DR1, DR14, DR15
Humpback Whale	Western Alaska	6	0.2	DR1, DR14, DR15

Table 15. Leatherback turtle abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Leatherback Turtle	Aleutians	1	0.2	DR5, DR46
Leatherback Turtle	Aleutians	2	0.2	DR5, DR46
Leatherback Turtle	Aleutians	3	0.2	DR5, DR46
Leatherback Turtle	Aleutians	4	0.6	DR5, DR46
Leatherback Turtle	Aleutians	5	0.6	DR5, DR46
Leatherback Turtle	Aleutians	6	0.6	DR5, DR46
Leatherback Turtle	Aniakchak	1	0.2	DR5, DR46
Leatherback Turtle	Aniakchak	2	0.2	DR5, DR46
Leatherback Turtle	Aniakchak	3	0.2	DR5, DR46
Leatherback Turtle	Aniakchak	4	1	DR5, DR46
Leatherback Turtle	Aniakchak	5	1	DR5, DR46
Leatherback Turtle	Aniakchak	6	1	DR5, DR46
Leatherback Turtle	Beaufort Sea	1	0	DR5, DR46
Leatherback Turtle	Beaufort Sea	2	0	DR5, DR46
Leatherback Turtle	Beaufort Sea	3	0	DR5, DR46
Leatherback Turtle	Beaufort Sea	4	0	DR5, DR46
Leatherback Turtle	Beaufort Sea	5	0	DR5, DR46
Leatherback Turtle	Beaufort Sea	6	0	DR5, DR46
Leatherback Turtle	Bristol Bay	1	0.2	DR5, DR46

Common_Name	AK_Region	Season	Abundance	References
Leatherback Turtle	Bristol Bay	2	0.2	DR5, DR46
Leatherback Turtle	Bristol Bay	3	0.2	DR5, DR46
Leatherback Turtle	Bristol Bay	4	0.2	DR5, DR46
Leatherback Turtle	Bristol Bay	5	0.2	DR5, DR46
Leatherback Turtle	Bristol Bay	6	0.2	DR5, DR46
Leatherback Turtle	Chukchi Sea	1	0	DR5, DR46
Leatherback Turtle	Chukchi Sea	2	0	DR5, DR46
Leatherback Turtle	Chukchi Sea	3	0	DR5, DR46
Leatherback Turtle	Chukchi Sea	4	0	DR5, DR46
Leatherback Turtle	Chukchi Sea	5	0	DR5, DR46
Leatherback Turtle	Chukchi Sea	6	0	DR5, DR46
Leatherback Turtle	Cook Inlet	1	0.2	DR5, DR46
Leatherback Turtle	Cook Inlet	2	0.2	DR5, DR46
Leatherback Turtle	Cook Inlet	3	0.2	DR5, DR46
Leatherback Turtle	Cook Inlet	4	0.2	DR5, DR46
Leatherback Turtle	Cook Inlet	5	0.2	DR5, DR46
Leatherback Turtle	Cook Inlet	6	0.2	DR5, DR46
Leatherback Turtle	Kodiak/Shelikof Strait	1	0.2	DR5, DR46
Leatherback Turtle	Kodiak/Shelikof Strait	2	0.2	DR5, DR46
Leatherback Turtle	Kodiak/Shelikof Strait	3	0.2	DR5, DR46
Leatherback Turtle	Kodiak/Shelikof Strait	4	1	DR5, DR46
Leatherback Turtle	Kodiak/Shelikof Strait	5	1	DR5, DR46
Leatherback Turtle	Kodiak/Shelikof Strait	6	1	DR5, DR46
Leatherback Turtle	Kotzebue Sound/Hope Basin	1	0	DR5, DR46
Leatherback Turtle	Kotzebue Sound/Hope Basin	2	0	DR5, DR46
Leatherback Turtle	Kotzebue Sound/Hope Basin	3	0	DR5, DR46
Leatherback Turtle	Kotzebue Sound/Hope Basin	4	0	DR5, DR46
Leatherback Turtle	Kotzebue Sound/Hope Basin	5	0	DR5, DR46
Leatherback Turtle	Kotzebue Sound/Hope Basin	6	0	DR5, DR46
Leatherback Turtle	Norton Sound/St. Lawrence Is.	1	0	DR5, DR46
Leatherback Turtle	Norton Sound/St. Lawrence Is.	2	0	DR5, DR46
Leatherback Turtle	Norton Sound/St. Lawrence Is.	3	0	DR5, DR46
Leatherback Turtle	Norton Sound/St. Lawrence Is.	4	0	DR5, DR46
Leatherback Turtle	Norton Sound/St. Lawrence Is.	5	0	DR5, DR46
Leatherback Turtle	Norton Sound/St. Lawrence Is.	6	0	DR5, DR46
Leatherback Turtle	Offshore Kenai Peninsula	1	0.2	DR5, DR46
Leatherback Turtle	Offshore Kenai Peninsula	2	0.2	DR5, DR46
Leatherback Turtle	Offshore Kenai Peninsula	3	0.2	DR5, DR46
Leatherback Turtle	Offshore Kenai Peninsula	4	1	DR5, DR46
Leatherback Turtle	Offshore Kenai Peninsula	5	1	DR5, DR46
Leatherback Turtle	Offshore Kenai Peninsula	6	1	DR5, DR46
Leatherback Turtle	Prince William Sound	1	0.2	DR5, DR46
Leatherback Turtle	Prince William Sound	2	0.2	DR5, DR46
Leatherback Turtle	Prince William Sound	3	0.2	DR5, DR46
Leatherback Turtle	Prince William Sound	4	0.2	DR5, DR46
Leatherback Turtle	Prince William Sound	5	0.2	DR5, DR46
Leatherback Turtle	Prince William Sound	6	0.2	DR5, DR46
Leatherback Turtle	South-Central Alaska	1	0.2	DR5, DR46
Leatherback Turtle	South-Central Alaska	2	0.2	DR5, DR46

Common_Name	AK_Region	Season	Abundance	References
Leatherback Turtle	South-Central Alaska	3	0.2	DR5, DR46
Leatherback Turtle	South-Central Alaska	4	1	DR5, DR46
Leatherback Turtle	South-Central Alaska	5	1	DR5, DR46
Leatherback Turtle	South-Central Alaska	6	1	DR5, DR46
Leatherback Turtle	Southeast Alaska	1	0.2	DR5, DR46
Leatherback Turtle	Southeast Alaska	2	0.2	DR5, DR46
Leatherback Turtle	Southeast Alaska	3	0.2	DR5, DR46
Leatherback Turtle	Southeast Alaska	4	1	DR5, DR46
Leatherback Turtle	Southeast Alaska	5	1	DR5, DR46
Leatherback Turtle	Southeast Alaska	6	1	DR5, DR46
Leatherback Turtle	Western Alaska	1	0	DR5, DR46
Leatherback Turtle	Western Alaska	2	0	DR5, DR46
Leatherback Turtle	Western Alaska	3	0	DR5, DR46
Leatherback Turtle	Western Alaska	4	0	DR5, DR46
Leatherback Turtle	Western Alaska	5	0	DR5, DR46
Leatherback Turtle	Western Alaska	6	0	DR5, DR46

Table 16. Marbled murrelet abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Marbled Murrelet	Aleutians	1	0.4	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aleutians	2	0.4	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aleutians	3	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aleutians	4	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aleutians	5	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aleutians	6	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aniakchak	1	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aniakchak	2	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aniakchak	3	0.8	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aniakchak	4	0.8	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aniakchak	5	0.8	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Aniakchak	6	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Beaufort Sea	1	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Beaufort Sea	2	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Beaufort Sea	3	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Beaufort Sea	4	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Beaufort Sea	5	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Beaufort Sea	6	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Bristol Bay	1	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Bristol Bay	2	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Bristol Bay	3	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Bristol Bay	4	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Bristol Bay	5	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Bristol Bay	6	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Chukchi Sea	1	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Chukchi Sea	2	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Chukchi Sea	3	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Chukchi Sea	4	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Chukchi Sea	5	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37

Common_Name	AK_Region	Season	Abundance	References
Marbled Murrelet	Chukchi Sea	6	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Cook Inlet	1	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Cook Inlet	2	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Cook Inlet	3	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Cook Inlet	4	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Cook Inlet	5	0.8	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Cook Inlet	6	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kodiak/Shelikof Strait	1	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kodiak/Shelikof Strait	2	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kodiak/Shelikof Strait	3	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kodiak/Shelikof Strait	4	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kodiak/Shelikof Strait	5	0.8	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kodiak/Shelikof Strait	6	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kotzebue Sound/Hope Basin	3	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kotzebue Sound/Hope Basin	4	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kotzebue Sound/Hope Basin	5	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Kotzebue Sound/Hope Basin	6	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Norton Sound/St. Lawrence Is.	3	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Norton Sound/St. Lawrence Is.	4	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Norton Sound/St. Lawrence Is.	5	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Norton Sound/St. Lawrence Is.	6	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Offshore Kenai Peninsula	1	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Offshore Kenai Peninsula	2	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Offshore Kenai Peninsula	3	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Offshore Kenai Peninsula	4	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Offshore Kenai Peninsula	5	0.8	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Offshore Kenai Peninsula	6	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Prince William Sound	1	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Prince William Sound	2	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Prince William Sound	3	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Prince William Sound	4	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Prince William Sound	5	0.8	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Prince William Sound	6	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	South-Central Alaska	1	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	South-Central Alaska	2	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	South-Central Alaska	3	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	South-Central Alaska	4	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	South-Central Alaska	5	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	South-Central Alaska	6	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Southeast Alaska	1	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Southeast Alaska	2	0.6	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Southeast Alaska	3	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Southeast Alaska	4	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Southeast Alaska	5	1.0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Southeast Alaska	6	0.8	RB1, RB2, RB3, RB19, RB20, RB36, RB37

Common_Name	AK_Region	Season	Abundance	References
Marbled Murrelet	Western Alaska	1	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Western Alaska	2	0	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Western Alaska	3	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Western Alaska	4	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Western Alaska	5	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Marbled Murrelet	Western Alaska	6	0.2	RB1, RB2, RB3, RB19, RB20, RB36, RB37

Table 17. North Pacific right whale abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
North Pacific Right Whale	Aleutians	1	0.8	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aleutians	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aleutians	3	0.8	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aleutians	4	1.0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aleutians	5	1.0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aleutians	6	1.0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aniakchak	1	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aniakchak	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aniakchak	3	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aniakchak	4	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aniakchak	5	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Aniakchak	6	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Beaufort Sea	1	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Beaufort Sea	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Beaufort Sea	3	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Beaufort Sea	4	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Beaufort Sea	5	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Beaufort Sea	6	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Bristol Bay	1	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Bristol Bay	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Bristol Bay	3	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Bristol Bay	4	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Bristol Bay	5	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Bristol Bay	6	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Chukchi Sea	1	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Chukchi Sea	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Chukchi Sea	3	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Chukchi Sea	4	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Chukchi Sea	5	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Chukchi Sea	6	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Cook Inlet	1	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Cook Inlet	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Cook Inlet	3	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Cook Inlet	4	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Cook Inlet	5	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Cook Inlet	6	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kodiak/Shelikof Strait	1	0.4	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kodiak/Shelikof Strait	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kodiak/Shelikof Strait	3	0.4	DR1, DR2,DR3, DR4

Common_Name	AK_Region	Season	Abundance	References
North Pacific Right Whale	Kodiak/Shelikof Strait	4	0.6	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kodiak/Shelikof Strait	5	0.6	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kodiak/Shelikof Strait	6	0.6	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kotzebue Sound/Hope Basin	1	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kotzebue Sound/Hope Basin	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kotzebue Sound/Hope Basin	3	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kotzebue Sound/Hope Basin	4	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kotzebue Sound/Hope Basin	5	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Kotzebue Sound/Hope Basin	6	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Norton Sound/St. Lawrence Is.	1	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Norton Sound/St. Lawrence Is.	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Norton Sound/St. Lawrence Is.	3	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Norton Sound/St. Lawrence Is.	4	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Norton Sound/St. Lawrence Is.	5	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Norton Sound/St. Lawrence Is.	6	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Offshore Kenai Peninsula	1	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Offshore Kenai Peninsula	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Offshore Kenai Peninsula	3	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Offshore Kenai Peninsula	4	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Offshore Kenai Peninsula	5	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Offshore Kenai Peninsula	6	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Prince William Sound	1	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Prince William Sound	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Prince William Sound	3	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Prince William Sound	4	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Prince William Sound	5	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Prince William Sound	6	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	South-Central Alaska	1	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	South-Central Alaska	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	South-Central Alaska	3	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	South-Central Alaska	4	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	South-Central Alaska	5	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	South-Central Alaska	6	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Southeast Alaska	1	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Southeast Alaska	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Southeast Alaska	3	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Southeast Alaska	4	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Southeast Alaska	5	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Southeast Alaska	6	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Western Alaska	1	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Western Alaska	2	0	DR1, DR2,DR3, DR4
North Pacific Right Whale	Western Alaska	3	0.2	DR1, DR2,DR3, DR4
North Pacific Right Whale	Western Alaska	4	0.4	DR1, DR2,DR3, DR4
North Pacific Right Whale	Western Alaska	5	0.4	DR1, DR2,DR3, DR4
North Pacific Right Whale	Western Alaska	6	0.4	DR1, DR2,DR3, DR4

Table 18. Northern fur seal abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Northern Fur Seal	Aleutians	1	0.6	DR1, RB40, RB41
Northern Fur Seal	Aleutians	2	0.6	DR1, RB40, RB41
Northern Fur Seal	Aleutians	3	0.8	DR1, RB40, RB41
Northern Fur Seal	Aleutians	4	1.0	DR1, RB40, RB41
Northern Fur Seal	Aleutians	5	1.0	DR1, RB40, RB41
Northern Fur Seal	Aleutians	6	0.8	DR1, RB40, RB41
Northern Fur Seal	Aniakchak	1	0.2	DR1, RB40, RB41
Northern Fur Seal	Aniakchak	2	0.2	DR1, RB40, RB41
Northern Fur Seal	Aniakchak	3	0.4	DR1, RB40, RB41
Northern Fur Seal	Aniakchak	4	0	DR1, RB40, RB41
Northern Fur Seal	Aniakchak	5	0.2	DR1, RB40, RB41
Northern Fur Seal	Aniakchak	6	0.4	DR1, RB40, RB41
Northern Fur Seal	Beaufort Sea	1	0	DR1, RB40, RB41
Northern Fur Seal	Beaufort Sea	2	0	DR1, RB40, RB41
Northern Fur Seal	Beaufort Sea	3	0	DR1, RB40, RB41
Northern Fur Seal	Beaufort Sea	4	0	DR1, RB40, RB41
Northern Fur Seal	Beaufort Sea	5	0	DR1, RB40, RB41
Northern Fur Seal	Beaufort Sea	6	0	DR1, RB40, RB41
Northern Fur Seal	Bristol Bay	1	0	DR1, RB40, RB41
Northern Fur Seal	Bristol Bay	2	0	DR1, RB40, RB41
Northern Fur Seal	Bristol Bay	3	0	DR1, RB40, RB41
Northern Fur Seal	Bristol Bay	4	0	DR1, RB40, RB41
Northern Fur Seal	Bristol Bay	5	0	DR1, RB40, RB41
Northern Fur Seal	Bristol Bay	6	0	DR1, RB40, RB41
Northern Fur Seal	Chukchi Sea	1	0	DR1, RB40, RB41
Northern Fur Seal	Chukchi Sea	2	0	DR1, RB40, RB41
Northern Fur Seal	Chukchi Sea	3	0	DR1, RB40, RB41
Northern Fur Seal	Chukchi Sea	4	0	DR1, RB40, RB41
Northern Fur Seal	Chukchi Sea	5	0	DR1, RB40, RB41
Northern Fur Seal	Chukchi Sea	6	0	DR1, RB40, RB41
Northern Fur Seal	Cook Inlet	1	0	DR1, RB40, RB41
Northern Fur Seal	Cook Inlet	2	0	DR1, RB40, RB41
Northern Fur Seal	Cook Inlet	3	0	DR1, RB40, RB41
Northern Fur Seal	Cook Inlet	4	0	DR1, RB40, RB41
Northern Fur Seal	Cook Inlet	5	0	DR1, RB40, RB41
Northern Fur Seal	Cook Inlet	6	0	DR1, RB40, RB41
Northern Fur Seal	Kodiak/Shelikof Strait	1	0.2	DR1, RB40, RB41
Northern Fur Seal	Kodiak/Shelikof Strait	2	0.2	DR1, RB40, RB41
Northern Fur Seal	Kodiak/Shelikof Strait	3	0.4	DR1, RB40, RB41
Northern Fur Seal	Kodiak/Shelikof Strait	4	0	DR1, RB40, RB41
Northern Fur Seal	Kodiak/Shelikof Strait	5	0.2	DR1, RB40, RB41
Northern Fur Seal	Kodiak/Shelikof Strait	6	0.4	DR1, RB40, RB41
Northern Fur Seal	Kotzebue Sound/Hope Basin	1	0	DR1, RB40, RB41
Northern Fur Seal	Kotzebue Sound/Hope Basin	2	0	DR1, RB40, RB41
Northern Fur Seal	Kotzebue Sound/Hope Basin	3	0	DR1, RB40, RB41
Northern Fur Seal	Kotzebue Sound/Hope Basin	4	0	DR1, RB40, RB41
Northern Fur Seal	Kotzebue Sound/Hope Basin	5	0	DR1, RB40, RB41
Northern Fur Seal	Kotzebue Sound/Hope Basin	6	0	DR1, RB40, RB41

Common_Name	AK_Region	Season	Abundance	References
Northern Fur Seal	Norton Sound/St. Lawrence Is.	1	0	DR1, RB40, RB41
Northern Fur Seal	Norton Sound/St. Lawrence Is.	2	0	DR1, RB40, RB41
Northern Fur Seal	Norton Sound/St. Lawrence Is.	3	0	DR1, RB40, RB41
Northern Fur Seal	Norton Sound/St. Lawrence Is.	4	0	DR1, RB40, RB41
Northern Fur Seal	Norton Sound/St. Lawrence Is.	5	0	DR1, RB40, RB41
Northern Fur Seal	Norton Sound/St. Lawrence Is.	6	0	DR1, RB40, RB41
Northern Fur Seal	Offshore Kenai Peninsula	1	0.2	DR1, RB40, RB41
Northern Fur Seal	Offshore Kenai Peninsula	2	0.2	DR1, RB40, RB41
Northern Fur Seal	Offshore Kenai Peninsula	3	0.4	DR1, RB40, RB41
Northern Fur Seal	Offshore Kenai Peninsula	4	0	DR1, RB40, RB41
Northern Fur Seal	Offshore Kenai Peninsula	5	0.2	DR1, RB40, RB41
Northern Fur Seal	Offshore Kenai Peninsula	6	0.4	DR1, RB40, RB41
Northern Fur Seal	Prince William Sound	1	0	DR1, RB40, RB41
Northern Fur Seal	Prince William Sound	2	0	DR1, RB40, RB41
Northern Fur Seal	Prince William Sound	3	0	DR1, RB40, RB41
Northern Fur Seal	Prince William Sound	4	0	DR1, RB40, RB41
Northern Fur Seal	Prince William Sound	5	0	DR1, RB40, RB41
Northern Fur Seal	Prince William Sound	6	0	DR1, RB40, RB41
Northern Fur Seal	South-Central Alaska	1	0.2	DR1, RB40, RB41
Northern Fur Seal	South-Central Alaska	2	0.2	DR1, RB40, RB41
Northern Fur Seal	South-Central Alaska	3	0.4	DR1, RB40, RB41
Northern Fur Seal	South-Central Alaska	4	0	DR1, RB40, RB41
Northern Fur Seal	South-Central Alaska	5	0.2	DR1, RB40, RB41
Northern Fur Seal	South-Central Alaska	6	0.4	DR1, RB40, RB41
Northern Fur Seal	Southeast Alaska	1	0.2	DR1, RB40, RB41
Northern Fur Seal	Southeast Alaska	2	0.2	DR1, RB40, RB41
Northern Fur Seal	Southeast Alaska	3	0.4	DR1, RB40, RB41
Northern Fur Seal	Southeast Alaska	4	0	DR1, RB40, RB41
Northern Fur Seal	Southeast Alaska	5	0.2	DR1, RB40, RB41
Northern Fur Seal	Southeast Alaska	6	0.4	DR1, RB40, RB41
Northern Fur Seal	Western Alaska	1	0	DR1, RB40, RB41
Northern Fur Seal	Western Alaska	2	0	DR1, RB40, RB41
Northern Fur Seal	Western Alaska	3	0.2	DR1, RB40, RB41
Northern Fur Seal	Western Alaska	4	0.2	DR1, RB40, RB41
Northern Fur Seal	Western Alaska	5	0.2	DR1, RB40, RB41
Northern Fur Seal	Western Alaska	6	0.2	DR1, RB40, RB41

Table 19. Northern pintail abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Northern Pintail	Aleutians	1	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aleutians	2	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aleutians	3	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aleutians	4	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aleutians	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aleutians	6	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aniakchak	1	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aniakchak	2	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aniakchak	3	0.4	RB1, RB2, RB3, RB15, RB8, RB16

Common_Name	AK_Region	Season	Abundance	References
Northern Pintail	Aniakchak	4	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aniakchak	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Aniakchak	6	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Beaufort Sea	1	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Beaufort Sea	2	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Beaufort Sea	3	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Beaufort Sea	4	1.0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Beaufort Sea	5	0.8	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Beaufort Sea	6	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Bristol Bay	1	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Bristol Bay	2	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Bristol Bay	3	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Bristol Bay	4	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Bristol Bay	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Bristol Bay	6	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Chukchi Sea	1	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Chukchi Sea	2	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Chukchi Sea	3	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Chukchi Sea	4	1.0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Chukchi Sea	5	0.8	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Chukchi Sea	6	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Cook Inlet	1	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Cook Inlet	2	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Cook Inlet	3	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Cook Inlet	4	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Cook Inlet	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Cook Inlet	6	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kodiak/Shelikof Strait	1	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kodiak/Shelikof Strait	2	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kodiak/Shelikof Strait	3	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kodiak/Shelikof Strait	4	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kodiak/Shelikof Strait	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kodiak/Shelikof Strait	6	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kotzebue Sound/Hope Basin	3	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kotzebue Sound/Hope Basin	4	1.0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kotzebue Sound/Hope Basin	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Kotzebue Sound/Hope Basin	6	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Norton Sound/St. Lawrence Is.	3	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Norton Sound/St. Lawrence Is.	4	1.0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Norton Sound/St. Lawrence Is.	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Norton Sound/St. Lawrence Is.	6	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Offshore Kenai Peninsula	1	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Offshore Kenai Peninsula	2	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Offshore Kenai Peninsula	3	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Offshore Kenai Peninsula	4	0.6	RB1, RB2, RB3, RB15, RB8, RB16

Common_Name	AK_Region	Season	Abundance	References
Northern Pintail	Offshore Kenai Peninsula	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Offshore Kenai Peninsula	6	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Prince William Sound	1	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Prince William Sound	2	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Prince William Sound	3	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Prince William Sound	4	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Prince William Sound	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Prince William Sound	6	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	South-Central Alaska	1	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	South-Central Alaska	2	0.2	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	South-Central Alaska	3	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	South-Central Alaska	4	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	South-Central Alaska	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	South-Central Alaska	6	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Southeast Alaska	1	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Southeast Alaska	2	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Southeast Alaska	3	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Southeast Alaska	4	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Southeast Alaska	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Southeast Alaska	6	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Western Alaska	1	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Western Alaska	2	0	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Western Alaska	3	0.4	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Western Alaska	4	0.8	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Western Alaska	5	0.6	RB1, RB2, RB3, RB15, RB8, RB16
Northern Pintail	Western Alaska	6	0.2	RB1, RB2, RB3, RB15, RB8, RB16

Table 20. Northern sea otter abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Northern Sea Otter	Aleutians	1	1	DR1, D11, D12, D13
Northern Sea Otter	Aleutians	2	1	DR1, D11, D12, D13
Northern Sea Otter	Aleutians	3	1	DR1, D11, D12, D13
Northern Sea Otter	Aleutians	4	1	DR1, D11, D12, D13
Northern Sea Otter	Aleutians	5	1	DR1, D11, D12, D13
Northern Sea Otter	Aleutians	6	1	DR1, D11, D12, D13
Northern Sea Otter	Aniakchak	1	0.2	DR1, D11, D12, D13
Northern Sea Otter	Aniakchak	2	0.2	DR1, D11, D12, D13
Northern Sea Otter	Aniakchak	3	0.2	DR1, D11, D12, D13
Northern Sea Otter	Aniakchak	4	0.2	DR1, D11, D12, D13
Northern Sea Otter	Aniakchak	5	0.2	DR1, D11, D12, D13
Northern Sea Otter	Aniakchak	6	0.2	DR1, D11, D12, D13
Northern Sea Otter	Beaufort Sea	1	0	DR1, D11, D12, D13
Northern Sea Otter	Beaufort Sea	2	0	DR1, D11, D12, D13
Northern Sea Otter	Beaufort Sea	3	0	DR1, D11, D12, D13
Northern Sea Otter	Beaufort Sea	4	0	DR1, D11, D12, D13
Northern Sea Otter	Beaufort Sea	5	0	DR1, D11, D12, D13
Northern Sea Otter	Beaufort Sea	6	0	DR1, D11, D12, D13
Northern Sea Otter	Bristol Bay	1	0.2	DR1, D11, D12, D13

Common_Name	AK_Region	Season	Abundance	References
Northern Sea Otter	Bristol Bay	2	0.2	DR1, D11, D12, D13
Northern Sea Otter	Bristol Bay	3	0.2	DR1, D11, D12, D13
Northern Sea Otter	Bristol Bay	4	0.2	DR1, D11, D12, D13
Northern Sea Otter	Bristol Bay	5	0.2	DR1, D11, D12, D13
Northern Sea Otter	Bristol Bay	6	0.2	DR1, D11, D12, D13
Northern Sea Otter	Chukchi Sea	1	0	DR1, D11, D12, D13
Northern Sea Otter	Chukchi Sea	2	0	DR1, D11, D12, D13
Northern Sea Otter	Chukchi Sea	3	0	DR1, D11, D12, D13
Northern Sea Otter	Chukchi Sea	4	0	DR1, D11, D12, D13
Northern Sea Otter	Chukchi Sea	5	0	DR1, D11, D12, D13
Northern Sea Otter	Chukchi Sea	6	0	DR1, D11, D12, D13
Northern Sea Otter	Cook Inlet	1	0.4	DR1, D11, D12, D13
Northern Sea Otter	Cook Inlet	2	0.4	DR1, D11, D12, D13
Northern Sea Otter	Cook Inlet	3	0.4	DR1, D11, D12, D13
Northern Sea Otter	Cook Inlet	4	0.4	DR1, D11, D12, D13
Northern Sea Otter	Cook Inlet	5	0.4	DR1, D11, D12, D13
Northern Sea Otter	Cook Inlet	6	0.4	DR1, D11, D12, D13
Northern Sea Otter	Kodiak/Shelikof Strait	1	0.8	DR1, D11, D12, D13
Northern Sea Otter	Kodiak/Shelikof Strait	2	0.8	DR1, D11, D12, D13
Northern Sea Otter	Kodiak/Shelikof Strait	3	0.8	DR1, D11, D12, D13
Northern Sea Otter	Kodiak/Shelikof Strait	4	0.8	DR1, D11, D12, D13
Northern Sea Otter	Kodiak/Shelikof Strait	5	0.8	DR1, D11, D12, D13
Northern Sea Otter	Kodiak/Shelikof Strait	6	0.8	DR1, D11, D12, D13
Northern Sea Otter	Kotzebue Sound/Hope Basin	1	0	DR1, D11, D12, D13
Northern Sea Otter	Kotzebue Sound/Hope Basin	2	0	DR1, D11, D12, D13
Northern Sea Otter	Kotzebue Sound/Hope Basin	3	0	DR1, D11, D12, D13
Northern Sea Otter	Kotzebue Sound/Hope Basin	4	0	DR1, D11, D12, D13
Northern Sea Otter	Kotzebue Sound/Hope Basin	5	0	DR1, D11, D12, D13
Northern Sea Otter	Kotzebue Sound/Hope Basin	6	0	DR1, D11, D12, D13
Northern Sea Otter	Norton Sound/St. Lawrence Is.	1	0	DR1, D11, D12, D13
Northern Sea Otter	Norton Sound/St. Lawrence Is.	2	0	DR1, D11, D12, D13
Northern Sea Otter	Norton Sound/St. Lawrence Is.	3	0	DR1, D11, D12, D13
Northern Sea Otter	Norton Sound/St. Lawrence Is.	4	0	DR1, D11, D12, D13
Northern Sea Otter	Norton Sound/St. Lawrence Is.	5	0	DR1, D11, D12, D13
Northern Sea Otter	Norton Sound/St. Lawrence Is.	6	0	DR1, D11, D12, D13
Northern Sea Otter	Offshore Kenai Peninsula	1	0.2	DR1, D11, D12, D13
Northern Sea Otter	Offshore Kenai Peninsula	2	0.2	DR1, D11, D12, D13
Northern Sea Otter	Offshore Kenai Peninsula	3	0.2	DR1, D11, D12, D13
Northern Sea Otter	Offshore Kenai Peninsula	4	0.2	DR1, D11, D12, D13
Northern Sea Otter	Offshore Kenai Peninsula	5	0.2	DR1, D11, D12, D13
Northern Sea Otter	Offshore Kenai Peninsula	6	0.2	DR1, D11, D12, D13
Northern Sea Otter	Prince William Sound	1	0.4	DR1, D11, D12, D13
Northern Sea Otter	Prince William Sound	2	0.4	DR1, D11, D12, D13
Northern Sea Otter	Prince William Sound	3	0.4	DR1, D11, D12, D13
Northern Sea Otter	Prince William Sound	4	0.4	DR1, D11, D12, D13
Northern Sea Otter	Prince William Sound	5	0.4	DR1, D11, D12, D13
Northern Sea Otter	Prince William Sound	6	0.4	DR1, D11, D12, D13
Northern Sea Otter	South-Central Alaska	1	0.2	DR1, D11, D12, D13
Northern Sea Otter	South-Central Alaska	2	0.2	DR1, D11, D12, D13

Common_Name	AK_Region	Season	Abundance	References
Northern Sea Otter	South-Central Alaska	3	0.2	DR1, D11, D12, D13
Northern Sea Otter	South-Central Alaska	4	0.2	DR1, D11, D12, D13
Northern Sea Otter	South-Central Alaska	5	0.2	DR1, D11, D12, D13
Northern Sea Otter	South-Central Alaska	6	0.2	DR1, D11, D12, D13
Northern Sea Otter	Southeast Alaska	1	1	DR1, D11, D12, D13
Northern Sea Otter	Southeast Alaska	2	1	DR1, D11, D12, D13
Northern Sea Otter	Southeast Alaska	3	1	DR1, D11, D12, D13
Northern Sea Otter	Southeast Alaska	4	1	DR1, D11, D12, D13
Northern Sea Otter	Southeast Alaska	5	1	DR1, D11, D12, D13
Northern Sea Otter	Southeast Alaska	6	1	DR1, D11, D12, D13
Northern Sea Otter	Western Alaska	1	0	DR1, D11, D12, D13
Northern Sea Otter	Western Alaska	2	0	DR1, D11, D12, D13
Northern Sea Otter	Western Alaska	3	0	DR1, D11, D12, D13
Northern Sea Otter	Western Alaska	4	0	DR1, D11, D12, D13
Northern Sea Otter	Western Alaska	5	0	DR1, D11, D12, D13
Northern Sea Otter	Western Alaska	6	0	DR1, D11, D12, D13

Table 21. Pacific halibut abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Pacific Halibut	Aleutians	1	1	DR21, DR39, DR41, RB100
Pacific Halibut	Aleutians	2	1	DR21, DR39, DR41, RB100
Pacific Halibut	Aleutians	3	1	DR21, DR39, DR41, RB100
Pacific Halibut	Aleutians	4	1	DR21, DR39, DR41, RB100
Pacific Halibut	Aleutians	5	1	DR21, DR39, DR41, RB100
Pacific Halibut	Aleutians	6	1	DR21, DR39, DR41, RB100
Pacific Halibut	Aniakchak	1	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Aniakchak	2	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Aniakchak	3	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Aniakchak	4	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Aniakchak	5	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Aniakchak	6	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Beaufort Sea	1	0	DR21, DR39, DR41, RB100
Pacific Halibut	Beaufort Sea	2	0	DR21, DR39, DR41, RB100
Pacific Halibut	Beaufort Sea	3	0	DR21, DR39, DR41, RB100
Pacific Halibut	Beaufort Sea	4	0	DR21, DR39, DR41, RB100
Pacific Halibut	Beaufort Sea	5	0	DR21, DR39, DR41, RB100
Pacific Halibut	Beaufort Sea	6	0	DR21, DR39, DR41, RB100
Pacific Halibut	Bristol Bay	1	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Bristol Bay	2	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Bristol Bay	3	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Bristol Bay	4	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Bristol Bay	5	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Bristol Bay	6	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Chukchi Sea	1	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Chukchi Sea	2	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Chukchi Sea	3	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Chukchi Sea	4	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Chukchi Sea	5	0.2	DR21, DR39, DR41, RB100

Common_Name	AK_Region	Season	Abundance	References
Pacific Halibut	Chukchi Sea	6	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Cook Inlet	1	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Cook Inlet	2	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Cook Inlet	3	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Cook Inlet	4	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Cook Inlet	5	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Cook Inlet	6	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Kodiak/Shelikof Strait	1	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Kodiak/Shelikof Strait	2	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Kodiak/Shelikof Strait	3	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Kodiak/Shelikof Strait	4	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Kodiak/Shelikof Strait	5	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Kodiak/Shelikof Strait	6	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Kotzebue Sound/Hope Basin	1	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Kotzebue Sound/Hope Basin	2	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Kotzebue Sound/Hope Basin	3	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Kotzebue Sound/Hope Basin	4	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Kotzebue Sound/Hope Basin	5	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Kotzebue Sound/Hope Basin	6	0.2	DR21, DR39, DR41, RB100
Pacific Halibut	Norton Sound/St. Lawrence Is.	1	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Norton Sound/St. Lawrence Is.	2	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Norton Sound/St. Lawrence Is.	3	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Norton Sound/St. Lawrence Is.	4	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Norton Sound/St. Lawrence Is.	5	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Norton Sound/St. Lawrence Is.	6	0.4	DR21, DR39, DR41, RB100
Pacific Halibut	Offshore Kenai Peninsula	1	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Offshore Kenai Peninsula	2	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Offshore Kenai Peninsula	3	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Offshore Kenai Peninsula	4	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Offshore Kenai Peninsula	5	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Offshore Kenai Peninsula	6	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Prince William Sound	1	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Prince William Sound	2	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Prince William Sound	3	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Prince William Sound	4	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Prince William Sound	5	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Prince William Sound	6	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	South-Central Alaska	1	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	South-Central Alaska	2	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	South-Central Alaska	3	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	South-Central Alaska	4	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	South-Central Alaska	5	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	South-Central Alaska	6	0.6	DR21, DR39, DR41, RB100
Pacific Halibut	Southeast Alaska	1	1	DR21, DR39, DR41, RB100
Pacific Halibut	Southeast Alaska	2	1	DR21, DR39, DR41, RB100
Pacific Halibut	Southeast Alaska	3	1	DR21, DR39, DR41, RB100
Pacific Halibut	Southeast Alaska	4	1	DR21, DR39, DR41, RB100
Pacific Halibut	Southeast Alaska	5	1	DR21, DR39, DR41, RB100
Pacific Halibut	Southeast Alaska	6	1	DR21, DR39, DR41, RB100

Common_Name	AK_Region	Season	Abundance	References
Pacific Halibut	Western Alaska	1	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Western Alaska	2	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Western Alaska	3	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Western Alaska	4	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Western Alaska	5	0.8	DR21, DR39, DR41, RB100
Pacific Halibut	Western Alaska	6	0.8	DR21, DR39, DR41, RB100

Table 22. Pacific herring abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Pacific Herring	Aleutians	1	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aleutians	2	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aleutians	3	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aleutians	4	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aleutians	5	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aleutians	6	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aniakchak	1	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aniakchak	2	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aniakchak	3	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aniakchak	4	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aniakchak	5	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Aniakchak	6	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Beaufort Sea	1	0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Beaufort Sea	2	0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Beaufort Sea	3	0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Beaufort Sea	4	0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Beaufort Sea	5	0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Beaufort Sea	6	0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Bristol Bay	1	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Bristol Bay	2	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Bristol Bay	3	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Bristol Bay	4	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Bristol Bay	5	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Bristol Bay	6	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Chukchi Sea	1	0.2	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Chukchi Sea	2	0.2	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Chukchi Sea	3	0.2	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Chukchi Sea	4	0.2	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Chukchi Sea	5	0.2	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Chukchi Sea	6	0.2	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Cook Inlet	1	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Cook Inlet	2	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Cook Inlet	3	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Cook Inlet	4	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Cook Inlet	5	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Cook Inlet	6	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kodiak/Shelikof Strait	1	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kodiak/Shelikof Strait	2	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kodiak/Shelikof Strait	3	1.0	RB46, RB47, DR37, RB48, RB49, RB54

Common_Name	AK_Region	Season	Abundance	References
Pacific Herring	Kodiak/Shelikof Strait	4	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kodiak/Shelikof Strait	5	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kodiak/Shelikof Strait	6	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kotzebue Sound/Hope Basin	1	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kotzebue Sound/Hope Basin	2	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kotzebue Sound/Hope Basin	3	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kotzebue Sound/Hope Basin	4	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kotzebue Sound/Hope Basin	5	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Kotzebue Sound/Hope Basin	6	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Norton Sound/St. Lawrence Is.	1	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Norton Sound/St. Lawrence Is.	2	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Norton Sound/St. Lawrence Is.	3	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Norton Sound/St. Lawrence Is.	4	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Norton Sound/St. Lawrence Is.	5	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Norton Sound/St. Lawrence Is.	6	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Offshore Kenai Peninsula	1	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Offshore Kenai Peninsula	2	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Offshore Kenai Peninsula	3	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Offshore Kenai Peninsula	4	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Offshore Kenai Peninsula	5	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Offshore Kenai Peninsula	6	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Prince William Sound	1	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Prince William Sound	2	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Prince William Sound	3	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Prince William Sound	4	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Prince William Sound	5	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Prince William Sound	6	0.4	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	South-Central Alaska	1	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	South-Central Alaska	2	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	South-Central Alaska	3	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	South-Central Alaska	4	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	South-Central Alaska	5	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	South-Central Alaska	6	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Southeast Alaska	1	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Southeast Alaska	2	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Southeast Alaska	3	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Southeast Alaska	4	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Southeast Alaska	5	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Southeast Alaska	6	0.6	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Western Alaska	1	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Western Alaska	2	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Western Alaska	3	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Western Alaska	4	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Western Alaska	5	1.0	RB46, RB47, DR37, RB48, RB49, RB54
Pacific Herring	Western Alaska	6	1.0	RB46, RB47, DR37, RB48, RB49, RB54

Table 23. Pacific walrus abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Pacific Walrus	Aleutians	1	1	DR16, DR17, DR18
Pacific Walrus	Aleutians	2	1	DR16, DR17, DR18
Pacific Walrus	Aleutians	3	0.6	DR16, DR17, DR18
Pacific Walrus	Aleutians	4	0.2	DR16, DR17, DR18
Pacific Walrus	Aleutians	5	0.2	DR16, DR17, DR18
Pacific Walrus	Aleutians	6	0.6	DR16, DR17, DR18
Pacific Walrus	Aniakchak	1	0	DR16, DR17, DR18
Pacific Walrus	Aniakchak	2	0	DR16, DR17, DR18
Pacific Walrus	Aniakchak	3	0	DR16, DR17, DR18
Pacific Walrus	Aniakchak	4	0	DR16, DR17, DR18
Pacific Walrus	Aniakchak	5	0	DR16, DR17, DR18
Pacific Walrus	Aniakchak	6	0	DR16, DR17, DR18
Pacific Walrus	Beaufort Sea	1	0	DR16, DR17, DR18
Pacific Walrus	Beaufort Sea	2	0	DR16, DR17, DR18
Pacific Walrus	Beaufort Sea	3	0	DR16, DR17, DR18
Pacific Walrus	Beaufort Sea	4	0.2	DR16, DR17, DR18
Pacific Walrus	Beaufort Sea	5	0.2	DR16, DR17, DR18
Pacific Walrus	Beaufort Sea	6	0	DR16, DR17, DR18
Pacific Walrus	Bristol Bay	1	1	DR16, DR17, DR18
Pacific Walrus	Bristol Bay	2	1	DR16, DR17, DR18
Pacific Walrus	Bristol Bay	3	0.6	DR16, DR17, DR18
Pacific Walrus	Bristol Bay	4	0.4	DR16, DR17, DR18
Pacific Walrus	Bristol Bay	5	0.4	DR16, DR17, DR18
Pacific Walrus	Bristol Bay	6	0.6	DR16, DR17, DR18
Pacific Walrus	Chukchi Sea	1	0	DR16, DR17, DR18
Pacific Walrus	Chukchi Sea	2	0	DR16, DR17, DR18
Pacific Walrus	Chukchi Sea	3	0.4	DR16, DR17, DR18
Pacific Walrus	Chukchi Sea	4	0.8	DR16, DR17, DR18
Pacific Walrus	Chukchi Sea	5	0.8	DR16, DR17, DR18
Pacific Walrus	Chukchi Sea	6	0.4	DR16, DR17, DR18
Pacific Walrus	Cook Inlet	1	0	DR16, DR17, DR18
Pacific Walrus	Cook Inlet	2	0	DR16, DR17, DR18
Pacific Walrus	Cook Inlet	3	0	DR16, DR17, DR18
Pacific Walrus	Cook Inlet	4	0	DR16, DR17, DR18
Pacific Walrus	Cook Inlet	5	0	DR16, DR17, DR18
Pacific Walrus	Cook Inlet	6	0	DR16, DR17, DR18
Pacific Walrus	Kodiak/Shelikof Strait	1	0	DR16, DR17, DR18
Pacific Walrus	Kodiak/Shelikof Strait	2	0	DR16, DR17, DR18
Pacific Walrus	Kodiak/Shelikof Strait	3	0	DR16, DR17, DR18
Pacific Walrus	Kodiak/Shelikof Strait	4	0	DR16, DR17, DR18
Pacific Walrus	Kodiak/Shelikof Strait	5	0	DR16, DR17, DR18
Pacific Walrus	Kodiak/Shelikof Strait	6	0	DR16, DR17, DR18
Pacific Walrus	Kotzebue Sound/Hope Basin	1	0	DR16, DR17, DR18
Pacific Walrus	Kotzebue Sound/Hope Basin	2	0	DR16, DR17, DR18
Pacific Walrus	Kotzebue Sound/Hope Basin	3	0.4	DR16, DR17, DR18
Pacific Walrus	Kotzebue Sound/Hope Basin	4	0.6	DR16, DR17, DR18
Pacific Walrus	Kotzebue Sound/Hope Basin	5	0.6	DR16, DR17, DR18
Pacific Walrus	Kotzebue Sound/Hope Basin	6	0.4	DR16, DR17, DR18

Common_Name	AK_Region	Season	Abundance	References
Pacific Walrus	Norton Sound/St. Lawrence Is.	1	0.8	DR16, DR17, DR18
Pacific Walrus	Norton Sound/St. Lawrence Is.	2	0.8	DR16, DR17, DR18
Pacific Walrus	Norton Sound/St. Lawrence Is.	3	0.6	DR16, DR17, DR18
Pacific Walrus	Norton Sound/St. Lawrence Is.	4	0.4	DR16, DR17, DR18
Pacific Walrus	Norton Sound/St. Lawrence Is.	5	0.4	DR16, DR17, DR18
Pacific Walrus	Norton Sound/St. Lawrence Is.	6	0.6	DR16, DR17, DR18
Pacific Walrus	Offshore Kenai Peninsula	1	0	DR16, DR17, DR18
Pacific Walrus	Offshore Kenai Peninsula	2	0	DR16, DR17, DR18
Pacific Walrus	Offshore Kenai Peninsula	3	0	DR16, DR17, DR18
Pacific Walrus	Offshore Kenai Peninsula	4	0	DR16, DR17, DR18
Pacific Walrus	Offshore Kenai Peninsula	5	0	DR16, DR17, DR18
Pacific Walrus	Offshore Kenai Peninsula	6	0	DR16, DR17, DR18
Pacific Walrus	Prince William Sound	1	0	DR16, DR17, DR18
Pacific Walrus	Prince William Sound	2	0	DR16, DR17, DR18
Pacific Walrus	Prince William Sound	3	0	DR16, DR17, DR18
Pacific Walrus	Prince William Sound	4	0	DR16, DR17, DR18
Pacific Walrus	Prince William Sound	5	0	DR16, DR17, DR18
Pacific Walrus	Prince William Sound	6	0	DR16, DR17, DR18
Pacific Walrus	South-Central Alaska	1	0	DR16, DR17, DR18
Pacific Walrus	South-Central Alaska	2	0	DR16, DR17, DR18
Pacific Walrus	South-Central Alaska	3	0	DR16, DR17, DR18
Pacific Walrus	South-Central Alaska	4	0	DR16, DR17, DR18
Pacific Walrus	South-Central Alaska	5	0	DR16, DR17, DR18
Pacific Walrus	South-Central Alaska	6	0	DR16, DR17, DR18
Pacific Walrus	Southeast Alaska	1	0	DR16, DR17, DR18
Pacific Walrus	Southeast Alaska	2	0	DR16, DR17, DR18
Pacific Walrus	Southeast Alaska	3	0	DR16, DR17, DR18
Pacific Walrus	Southeast Alaska	4	0	DR16, DR17, DR18
Pacific Walrus	Southeast Alaska	5	0	DR16, DR17, DR18
Pacific Walrus	Southeast Alaska	6	0	DR16, DR17, DR18
Pacific Walrus	Western Alaska	1	1	DR16, DR17, DR18
Pacific Walrus	Western Alaska	2	1	DR16, DR17, DR18
Pacific Walrus	Western Alaska	3	0.6	DR16, DR17, DR18
Pacific Walrus	Western Alaska	4	0.4	DR16, DR17, DR18
Pacific Walrus	Western Alaska	5	0.4	DR16, DR17, DR18
Pacific Walrus	Western Alaska	6	0.6	DR16, DR17, DR18

Table 24. Pink salmon abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Pink Salmon	Aleutians	1	0.6	RB51, RB52, RB53
Pink Salmon	Aleutians	2	0.6	RB51, RB52, RB53
Pink Salmon	Aleutians	3	0.8	RB51, RB52, RB53
Pink Salmon	Aleutians	4	0.6	RB51, RB52, RB53
Pink Salmon	Aleutians	5	0.6	RB51, RB52, RB53
Pink Salmon	Aleutians	6	0.6	RB51, RB52, RB53
Pink Salmon	Aniakchak	1	0.4	RB51, RB52, RB53
Pink Salmon	Aniakchak	2	0.4	RB51, RB52, RB53
Pink Salmon	Aniakchak	3	0.6	RB51, RB52, RB53

Common_Name	AK_Region	Season	Abundance	References
Pink Salmon	Aniakchak	4	0.4	RB51, RB52, RB53
Pink Salmon	Aniakchak	5	0.4	RB51, RB52, RB53
Pink Salmon	Aniakchak	6	0.4	RB51, RB52, RB53
Pink Salmon	Beaufort Sea	1	0.2	RB51, RB52, RB53
Pink Salmon	Beaufort Sea	2	0.2	RB51, RB52, RB53
Pink Salmon	Beaufort Sea	3	0.2	RB51, RB52, RB53
Pink Salmon	Beaufort Sea	4	0.2	RB51, RB52, RB53
Pink Salmon	Beaufort Sea	5	0.2	RB51, RB52, RB53
Pink Salmon	Beaufort Sea	6	0.2	RB51, RB52, RB53
Pink Salmon	Bristol Bay	1	0.4	RB51, RB52, RB53
Pink Salmon	Bristol Bay	2	0.4	RB51, RB52, RB53
Pink Salmon	Bristol Bay	3	0.6	RB51, RB52, RB53
Pink Salmon	Bristol Bay	4	0.4	RB51, RB52, RB53
Pink Salmon	Bristol Bay	5	0.4	RB51, RB52, RB53
Pink Salmon	Bristol Bay	6	0.4	RB51, RB52, RB53
Pink Salmon	Chukchi Sea	1	0.2	RB51, RB52, RB53
Pink Salmon	Chukchi Sea	2	0.2	RB51, RB52, RB53
Pink Salmon	Chukchi Sea	3	0.2	RB51, RB52, RB53
Pink Salmon	Chukchi Sea	4	0.2	RB51, RB52, RB53
Pink Salmon	Chukchi Sea	5	0.2	RB51, RB52, RB53
Pink Salmon	Chukchi Sea	6	0.2	RB51, RB52, RB53
Pink Salmon	Cook Inlet	1	0.4	RB51, RB52, RB53
Pink Salmon	Cook Inlet	2	0.4	RB51, RB52, RB53
Pink Salmon	Cook Inlet	3	0.6	RB51, RB52, RB53
Pink Salmon	Cook Inlet	4	0.4	RB51, RB52, RB53
Pink Salmon	Cook Inlet	5	0.4	RB51, RB52, RB53
Pink Salmon	Cook Inlet	6	0.4	RB51, RB52, RB53
Pink Salmon	Kodiak/Shelikof Strait	1	0.6	RB51, RB52, RB53
Pink Salmon	Kodiak/Shelikof Strait	2	0.6	RB51, RB52, RB53
Pink Salmon	Kodiak/Shelikof Strait	3	0.8	RB51, RB52, RB53
Pink Salmon	Kodiak/Shelikof Strait	4	0.6	RB51, RB52, RB53
Pink Salmon	Kodiak/Shelikof Strait	5	0.6	RB51, RB52, RB53
Pink Salmon	Kodiak/Shelikof Strait	6	0.6	RB51, RB52, RB53
Pink Salmon	Kotzebue Sound/Hope Basin	1	0.2	RB51, RB52, RB53
Pink Salmon	Kotzebue Sound/Hope Basin	2	0.2	RB51, RB52, RB53
Pink Salmon	Kotzebue Sound/Hope Basin	3	0.2	RB51, RB52, RB53
Pink Salmon	Kotzebue Sound/Hope Basin	4	0.2	RB51, RB52, RB53
Pink Salmon	Kotzebue Sound/Hope Basin	5	0.2	RB51, RB52, RB53
Pink Salmon	Kotzebue Sound/Hope Basin	6	0.2	RB51, RB52, RB53
Pink Salmon	Norton Sound/St. Lawrence Is.	1	0.2	RB51, RB52, RB53
Pink Salmon	Norton Sound/St. Lawrence Is.	2	0.2	RB51, RB52, RB53
Pink Salmon	Norton Sound/St. Lawrence Is.	3	0.4	RB51, RB52, RB53
Pink Salmon	Norton Sound/St. Lawrence Is.	4	0.4	RB51, RB52, RB53
Pink Salmon	Norton Sound/St. Lawrence Is.	5	0.2	RB51, RB52, RB53
Pink Salmon	Norton Sound/St. Lawrence Is.	6	0.2	RB51, RB52, RB53
Pink Salmon	Offshore Kenai Peninsula	1	0.4	RB51, RB52, RB53
Pink Salmon	Offshore Kenai Peninsula	2	0.4	RB51, RB52, RB53
Pink Salmon	Offshore Kenai Peninsula	3	0.6	RB51, RB52, RB53
Pink Salmon	Offshore Kenai Peninsula	4	0.4	RB51, RB52, RB53

Common_Name	AK_Region	Season	Abundance	References
Pink Salmon	Offshore Kenai Peninsula	5	0.4	RB51, RB52, RB53
Pink Salmon	Offshore Kenai Peninsula	6	0.4	RB51, RB52, RB53
Pink Salmon	Prince William Sound	1	0.6	RB51, RB52, RB53
Pink Salmon	Prince William Sound	2	0.6	RB51, RB52, RB53
Pink Salmon	Prince William Sound	3	0.8	RB51, RB52, RB53
Pink Salmon	Prince William Sound	4	0.6	RB51, RB52, RB53
Pink Salmon	Prince William Sound	5	0.6	RB51, RB52, RB53
Pink Salmon	Prince William Sound	6	0.6	RB51, RB52, RB53
Pink Salmon	South-Central Alaska	1	0.6	RB51, RB52, RB53
Pink Salmon	South-Central Alaska	2	0.6	RB51, RB52, RB53
Pink Salmon	South-Central Alaska	3	0.8	RB51, RB52, RB53
Pink Salmon	South-Central Alaska	4	0.6	RB51, RB52, RB53
Pink Salmon	South-Central Alaska	5	0.6	RB51, RB52, RB53
Pink Salmon	South-Central Alaska	6	0.6	RB51, RB52, RB53
Pink Salmon	Southeast Alaska	1	0.8	RB51, RB52, RB53
Pink Salmon	Southeast Alaska	2	0.8	RB51, RB52, RB53
Pink Salmon	Southeast Alaska	3	1.0	RB51, RB52, RB53
Pink Salmon	Southeast Alaska	4	0.8	RB51, RB52, RB53
Pink Salmon	Southeast Alaska	5	0.8	RB51, RB52, RB53
Pink Salmon	Southeast Alaska	6	0.8	RB51, RB52, RB53
Pink Salmon	Western Alaska	1	0.2	RB51, RB52, RB53
Pink Salmon	Western Alaska	2	0.2	RB51, RB52, RB53
Pink Salmon	Western Alaska	3	0.2	RB51, RB52, RB53
Pink Salmon	Western Alaska	4	0.2	RB51, RB52, RB53
Pink Salmon	Western Alaska	5	0.2	RB51, RB52, RB53
Pink Salmon	Western Alaska	6	0.2	RB51, RB52, RB53

Table 25. Polar bear abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Polar Bear	Aleutians	1	0	DR1, DR19, DR20
Polar Bear	Aleutians	2	0	DR1, DR19, DR20
Polar Bear	Aleutians	3	0	DR1, DR19, DR20
Polar Bear	Aleutians	4	0	DR1, DR19, DR20
Polar Bear	Aleutians	5	0	DR1, DR19, DR20
Polar Bear	Aleutians	6	0	DR1, DR19, DR20
Polar Bear	Aniakchak	1	0	DR1, DR19, DR20
Polar Bear	Aniakchak	2	0	DR1, DR19, DR20
Polar Bear	Aniakchak	3	0	DR1, DR19, DR20
Polar Bear	Aniakchak	4	0	DR1, DR19, DR20
Polar Bear	Aniakchak	5	0	DR1, DR19, DR20
Polar Bear	Aniakchak	6	0	DR1, DR19, DR20
Polar Bear	Beaufort Sea	1	0.6	DR1, DR19, DR20
Polar Bear	Beaufort Sea	2	0.6	DR1, DR19, DR20
Polar Bear	Beaufort Sea	3	0.6	DR1, DR19, DR20
Polar Bear	Beaufort Sea	4	0.8	DR1, DR19, DR20
Polar Bear	Beaufort Sea	5	0.8	DR1, DR19, DR20
Polar Bear	Beaufort Sea	6	0.8	DR1, DR19, DR20
Polar Bear	Bristol Bay	1	0	DR1, DR19, DR20

Common_Name	AK_Region	Season	Abundance	References
Polar Bear	Bristol Bay	2	0	DR1, DR19, DR20
Polar Bear	Bristol Bay	3	0	DR1, DR19, DR20
Polar Bear	Bristol Bay	4	0	DR1, DR19, DR20
Polar Bear	Bristol Bay	5	0	DR1, DR19, DR20
Polar Bear	Bristol Bay	6	0	DR1, DR19, DR20
Polar Bear	Chukchi Sea	1	0.8	DR1, DR19, DR20
Polar Bear	Chukchi Sea	2	0.8	DR1, DR19, DR20
Polar Bear	Chukchi Sea	3	0.8	DR1, DR19, DR20
Polar Bear	Chukchi Sea	4	1	DR1, DR19, DR20
Polar Bear	Chukchi Sea	5	1	DR1, DR19, DR20
Polar Bear	Chukchi Sea	6	1	DR1, DR19, DR20
Polar Bear	Cook Inlet	1	0	DR1, DR19, DR20
Polar Bear	Cook Inlet	2	0	DR1, DR19, DR20
Polar Bear	Cook Inlet	3	0	DR1, DR19, DR20
Polar Bear	Cook Inlet	4	0	DR1, DR19, DR20
Polar Bear	Cook Inlet	5	0	DR1, DR19, DR20
Polar Bear	Cook Inlet	6	0	DR1, DR19, DR20
Polar Bear	Kodiak/Shelikof Strait	1	0	DR1, DR19, DR20
Polar Bear	Kodiak/Shelikof Strait	2	0	DR1, DR19, DR20
Polar Bear	Kodiak/Shelikof Strait	3	0	DR1, DR19, DR20
Polar Bear	Kodiak/Shelikof Strait	4	0	DR1, DR19, DR20
Polar Bear	Kodiak/Shelikof Strait	5	0	DR1, DR19, DR20
Polar Bear	Kodiak/Shelikof Strait	6	0	DR1, DR19, DR20
Polar Bear	Kotzebue Sound/Hope Basin	1	0.4	DR1, DR19, DR20
Polar Bear	Kotzebue Sound/Hope Basin	2	0.4	DR1, DR19, DR20
Polar Bear	Kotzebue Sound/Hope Basin	3	0.4	DR1, DR19, DR20
Polar Bear	Kotzebue Sound/Hope Basin	4	0.6	DR1, DR19, DR20
Polar Bear	Kotzebue Sound/Hope Basin	5	0.6	DR1, DR19, DR20
Polar Bear	Kotzebue Sound/Hope Basin	6	0.6	DR1, DR19, DR20
Polar Bear	Norton Sound/St. Lawrence Is.	1	0.4	DR1, DR19, DR20
Polar Bear	Norton Sound/St. Lawrence Is.	2	0.4	DR1, DR19, DR20
Polar Bear	Norton Sound/St. Lawrence Is.	3	0.4	DR1, DR19, DR20
Polar Bear	Norton Sound/St. Lawrence Is.	4	0.2	DR1, DR19, DR20
Polar Bear	Norton Sound/St. Lawrence Is.	5	0.2	DR1, DR19, DR20
Polar Bear	Norton Sound/St. Lawrence Is.	6	0.2	DR1, DR19, DR20
Polar Bear	Offshore Kenai Peninsula	1	0	DR1, DR19, DR20
Polar Bear	Offshore Kenai Peninsula	2	0	DR1, DR19, DR20
Polar Bear	Offshore Kenai Peninsula	3	0	DR1, DR19, DR20
Polar Bear	Offshore Kenai Peninsula	4	0	DR1, DR19, DR20
Polar Bear	Offshore Kenai Peninsula	5	0	DR1, DR19, DR20
Polar Bear	Offshore Kenai Peninsula	6	0	DR1, DR19, DR20
Polar Bear	Prince William Sound	1	0	DR1, DR19, DR20
Polar Bear	Prince William Sound	2	0	DR1, DR19, DR20
Polar Bear	Prince William Sound	3	0	DR1, DR19, DR20
Polar Bear	Prince William Sound	4	0	DR1, DR19, DR20
Polar Bear	Prince William Sound	5	0	DR1, DR19, DR20
Polar Bear	Prince William Sound	6	0	DR1, DR19, DR20
Polar Bear	South-Central Alaska	1	0	DR1, DR19, DR20
Polar Bear	South-Central Alaska	2	0	DR1, DR19, DR20

Common_Name	AK_Region	Season	Abundance	References
Polar Bear	South-Central Alaska	3	0	DR1, DR19, DR20
Polar Bear	South-Central Alaska	4	0	DR1, DR19, DR20
Polar Bear	South-Central Alaska	5	0	DR1, DR19, DR20
Polar Bear	South-Central Alaska	6	0	DR1, DR19, DR20
Polar Bear	Southeast Alaska	1	0	DR1, DR19, DR20
Polar Bear	Southeast Alaska	2	0	DR1, DR19, DR20
Polar Bear	Southeast Alaska	3	0	DR1, DR19, DR20
Polar Bear	Southeast Alaska	4	0	DR1, DR19, DR20
Polar Bear	Southeast Alaska	5	0	DR1, DR19, DR20
Polar Bear	Southeast Alaska	6	0	DR1, DR19, DR20
Polar Bear	Western Alaska	1	0.2	DR1, DR19, DR20
Polar Bear	Western Alaska	2	0.2	DR1, DR19, DR20
Polar Bear	Western Alaska	3	0.2	DR1, DR19, DR20
Polar Bear	Western Alaska	4	0	DR1, DR19, DR20
Polar Bear	Western Alaska	5	0	DR1, DR19, DR20
Polar Bear	Western Alaska	6	0	DR1, DR19, DR20

Table 26. Red-necked phalarope abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Red-necked Phalarope	Aleutians	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aleutians	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aleutians	3	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aleutians	4	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aleutians	5	0.4	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aleutians	6	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aniakchak	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aniakchak	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aniakchak	3	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aniakchak	4	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aniakchak	5	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Aniakchak	6	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Beaufort Sea	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Beaufort Sea	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Beaufort Sea	3	0.8	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Beaufort Sea	4	1.0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Beaufort Sea	5	1.0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Beaufort Sea	6	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Bristol Bay	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Bristol Bay	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Bristol Bay	3	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Bristol Bay	4	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Bristol Bay	5	0.4	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Bristol Bay	6	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Chukchi Sea	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Chukchi Sea	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Chukchi Sea	3	0.8	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Chukchi Sea	4	1.0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Chukchi Sea	5	1.0	RB1, RB2, RB3, RB9, RB10

Common_Name	AK_Region	Season	Abundance	References
Red-necked Phalarope	Chukchi Sea	6	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Cook Inlet	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Cook Inlet	2	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Cook Inlet	3	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Cook Inlet	4	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Cook Inlet	5	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Cook Inlet	6	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kodiak/Shelikof Strait	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kodiak/Shelikof Strait	2	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kodiak/Shelikof Strait	3	0.8	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kodiak/Shelikof Strait	4	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kodiak/Shelikof Strait	5	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kodiak/Shelikof Strait	6	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kotzebue Sound/Hope Basin	3	0.8	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kotzebue Sound/Hope Basin	4	1.0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kotzebue Sound/Hope Basin	5	0.8	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Kotzebue Sound/Hope Basin	6	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Norton Sound/St. Lawrence Is.	3	0.8	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Norton Sound/St. Lawrence Is.	4	1	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Norton Sound/St. Lawrence Is.	5	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Norton Sound/St. Lawrence Is.	6	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Offshore Kenai Peninsula	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Offshore Kenai Peninsula	2	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Offshore Kenai Peninsula	3	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Offshore Kenai Peninsula	4	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Offshore Kenai Peninsula	5	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Offshore Kenai Peninsula	6	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Prince William Sound	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Prince William Sound	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Prince William Sound	3	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Prince William Sound	4	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Prince William Sound	5	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Prince William Sound	6	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	South-Central Alaska	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	South-Central Alaska	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	South-Central Alaska	3	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	South-Central Alaska	4	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	South-Central Alaska	5	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	South-Central Alaska	6	0.2	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Southeast Alaska	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Southeast Alaska	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Southeast Alaska	3	0.8	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Southeast Alaska	4	0.8	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Southeast Alaska	5	0.8	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Southeast Alaska	6	0.2	RB1, RB2, RB3, RB9, RB10

Common_Name	AK_Region	Season	Abundance	References
Red-necked Phalarope	Western Alaska	1	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Western Alaska	2	0	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Western Alaska	3	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Western Alaska	4	0.6	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Western Alaska	5	0.4	RB1, RB2, RB3, RB9, RB10
Red-necked Phalarope	Western Alaska	6	0	RB1, RB2, RB3, RB9, RB10

Table 27. Ringed seal abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Ringed Seal	Aleutians	1	0.2	DR1, DR45
Ringed Seal	Aleutians	2	0.2	DR1, DR45
Ringed Seal	Aleutians	3	0	DR1, DR45
Ringed Seal	Aleutians	4	0	DR1, DR45
Ringed Seal	Aleutians	5	0	DR1, DR45
Ringed Seal	Aleutians	6	0.2	DR1, DR45
Ringed Seal	Aniakchak	1	0	DR1, DR45
Ringed Seal	Aniakchak	2	0	DR1, DR45
Ringed Seal	Aniakchak	3	0	DR1, DR45
Ringed Seal	Aniakchak	4	0	DR1, DR45
Ringed Seal	Aniakchak	5	0	DR1, DR45
Ringed Seal	Aniakchak	6	0	DR1, DR45
Ringed Seal	Beaufort Sea	1	0.6	DR1, DR45
Ringed Seal	Beaufort Sea	2	0.6	DR1, DR45
Ringed Seal	Beaufort Sea	3	0.8	DR1, DR45
Ringed Seal	Beaufort Sea	4	0.8	DR1, DR45
Ringed Seal	Beaufort Sea	5	0.8	DR1, DR45
Ringed Seal	Beaufort Sea	6	0.6	DR1, DR45
Ringed Seal	Bristol Bay	1	0.2	DR1, DR45
Ringed Seal	Bristol Bay	2	0.2	DR1, DR45
Ringed Seal	Bristol Bay	3	0	DR1, DR45
Ringed Seal	Bristol Bay	4	0	DR1, DR45
Ringed Seal	Bristol Bay	5	0	DR1, DR45
Ringed Seal	Bristol Bay	6	0.2	DR1, DR45
Ringed Seal	Chukchi Sea	1	0.8	DR1, DR45
Ringed Seal	Chukchi Sea	2	0.8	DR1, DR45
Ringed Seal	Chukchi Sea	3	1	DR1, DR45
Ringed Seal	Chukchi Sea	4	1	DR1, DR45
Ringed Seal	Chukchi Sea	5	1	DR1, DR45
Ringed Seal	Chukchi Sea	6	0.8	DR1, DR45
Ringed Seal	Cook Inlet	1	0	DR1, DR45
Ringed Seal	Cook Inlet	2	0	DR1, DR45
Ringed Seal	Cook Inlet	3	0	DR1, DR45
Ringed Seal	Cook Inlet	4	0	DR1, DR45
Ringed Seal	Cook Inlet	5	0	DR1, DR45
Ringed Seal	Cook Inlet	6	0	DR1, DR45
Ringed Seal	Kodiak/Shelikof Strait	1	0	DR1, DR45
Ringed Seal	Kodiak/Shelikof Strait	2	0	DR1, DR45
Ringed Seal	Kodiak/Shelikof Strait	3	0	DR1, DR45

Common_Name	AK_Region	Season	Abundance	References
Ringed Seal	Kodiak/Shelikof Strait	4	0	DR1, DR45
Ringed Seal	Kodiak/Shelikof Strait	5	0	DR1, DR45
Ringed Seal	Kodiak/Shelikof Strait	6	0	DR1, DR45
Ringed Seal	Kotzebue Sound/Hope Basin	1	0.8	DR1, DR45
Ringed Seal	Kotzebue Sound/Hope Basin	2	0.8	DR1, DR45
Ringed Seal	Kotzebue Sound/Hope Basin	3	0.6	DR1, DR45
Ringed Seal	Kotzebue Sound/Hope Basin	4	0.6	DR1, DR45
Ringed Seal	Kotzebue Sound/Hope Basin	5	0.6	DR1, DR45
Ringed Seal	Kotzebue Sound/Hope Basin	6	0.8	DR1, DR45
Ringed Seal	Norton Sound/St. Lawrence Is.	1	0.6	DR1, DR45
Ringed Seal	Norton Sound/St. Lawrence Is.	2	0.6	DR1, DR45
Ringed Seal	Norton Sound/St. Lawrence Is.	3	0.4	DR1, DR45
Ringed Seal	Norton Sound/St. Lawrence Is.	4	0.4	DR1, DR45
Ringed Seal	Norton Sound/St. Lawrence Is.	5	0.4	DR1, DR45
Ringed Seal	Norton Sound/St. Lawrence Is.	6	0.6	DR1, DR45
Ringed Seal	Offshore Kenai Peninsula	1	0	DR1, DR45
Ringed Seal	Offshore Kenai Peninsula	2	0	DR1, DR45
Ringed Seal	Offshore Kenai Peninsula	3	0	DR1, DR45
Ringed Seal	Offshore Kenai Peninsula	4	0	DR1, DR45
Ringed Seal	Offshore Kenai Peninsula	5	0	DR1, DR45
Ringed Seal	Offshore Kenai Peninsula	6	0	DR1, DR45
Ringed Seal	Prince William Sound	1	0	DR1, DR45
Ringed Seal	Prince William Sound	2	0	DR1, DR45
Ringed Seal	Prince William Sound	3	0	DR1, DR45
Ringed Seal	Prince William Sound	4	0	DR1, DR45
Ringed Seal	Prince William Sound	5	0	DR1, DR45
Ringed Seal	Prince William Sound	6	0	DR1, DR45
Ringed Seal	South-Central Alaska	1	0	DR1, DR45
Ringed Seal	South-Central Alaska	2	0	DR1, DR45
Ringed Seal	South-Central Alaska	3	0	DR1, DR45
Ringed Seal	South-Central Alaska	4	0	DR1, DR45
Ringed Seal	South-Central Alaska	5	0	DR1, DR45
Ringed Seal	South-Central Alaska	6	0	DR1, DR45
Ringed Seal	Southeast Alaska	1	0	DR1, DR45
Ringed Seal	Southeast Alaska	2	0	DR1, DR45
Ringed Seal	Southeast Alaska	3	0	DR1, DR45
Ringed Seal	Southeast Alaska	4	0	DR1, DR45
Ringed Seal	Southeast Alaska	5	0	DR1, DR45
Ringed Seal	Southeast Alaska	6	0	DR1, DR45
Ringed Seal	Western Alaska	1	0.4	DR1, DR45
Ringed Seal	Western Alaska	2	0.4	DR1, DR45
Ringed Seal	Western Alaska	3	0.2	DR1, DR45
Ringed Seal	Western Alaska	4	0.2	DR1, DR45
Ringed Seal	Western Alaska	5	0.2	DR1, DR45
Ringed Seal	Western Alaska	6	0.4	DR1, DR45

Table 28. Short-tailed albatross abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Short-tailed Albatross	Aleutians	1	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aleutians	2	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aleutians	3	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aleutians	4	1.0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aleutians	5	0.6	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aleutians	6	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aniakchak	1	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aniakchak	2	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aniakchak	3	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aniakchak	4	0.6	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aniakchak	5	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Aniakchak	6	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Beaufort Sea	1	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Beaufort Sea	2	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Beaufort Sea	3	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Beaufort Sea	4	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Beaufort Sea	5	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Beaufort Sea	6	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Bristol Bay	1	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Bristol Bay	2	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Bristol Bay	3	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Bristol Bay	4	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Bristol Bay	5	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Bristol Bay	6	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Chukchi Sea	1	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Chukchi Sea	2	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Chukchi Sea	3	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Chukchi Sea	4	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37

Common_Name	AK_Region	Season	Abundance	References
Short-tailed Albatross	Chukchi Sea	5	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Chukchi Sea	6	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Cook Inlet	1	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Cook Inlet	2	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Cook Inlet	3	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Cook Inlet	4	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Cook Inlet	5	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Cook Inlet	6	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kodiak/Shelikof Strait	1	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kodiak/Shelikof Strait	2	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kodiak/Shelikof Strait	3	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kodiak/Shelikof Strait	4	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kodiak/Shelikof Strait	5	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kodiak/Shelikof Strait	6	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kotzebue Sound/Hope Basin	3	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kotzebue Sound/Hope Basin	4	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kotzebue Sound/Hope Basin	5	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Kotzebue Sound/Hope Basin	6	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Norton Sound/St. Lawrence Is.	3	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Norton Sound/St. Lawrence Is.	4	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Norton Sound/St. Lawrence Is.	5	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Norton Sound/St. Lawrence Is.	6	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Offshore Kenai Peninsula	1	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Offshore Kenai Peninsula	2	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Offshore Kenai Peninsula	3	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37

Common_Name	AK_Region	Season	Abundance	References
Short-tailed Albatross	Offshore Kenai Peninsula	4	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Offshore Kenai Peninsula	5	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Offshore Kenai Peninsula	6	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Prince William Sound	1	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Prince William Sound	2	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Prince William Sound	3	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Prince William Sound	4	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Prince William Sound	5	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Prince William Sound	6	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	South-Central Alaska	1	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	South-Central Alaska	2	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	South-Central Alaska	3	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	South-Central Alaska	4	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	South-Central Alaska	5	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	South-Central Alaska	6	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Southeast Alaska	1	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Southeast Alaska	2	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Southeast Alaska	3	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Southeast Alaska	4	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Southeast Alaska	5	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Southeast Alaska	6	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Western Alaska	1	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Western Alaska	2	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Western Alaska	3	0	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Western Alaska	4	0.6	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Western Alaska	5	0.4	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Short-tailed Albatross	Western Alaska	6	0.2	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37

Table 29. Short-tailed shearwater abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Short-tailed Shearwater	Aleutians	1	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aleutians	2	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aleutians	3	0.8	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aleutians	4	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aleutians	5	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aleutians	6	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aniakchak	1	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aniakchak	2	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aniakchak	3	0.8	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aniakchak	4	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aniakchak	5	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Aniakchak	6	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Beaufort Sea	1	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Beaufort Sea	2	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Beaufort Sea	3	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Beaufort Sea	4	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Beaufort Sea	5	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Beaufort Sea	6	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Bristol Bay	1	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Bristol Bay	2	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Bristol Bay	3	0.6	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Bristol Bay	4	0.8	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Bristol Bay	5	0.8	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Bristol Bay	6	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Chukchi Sea	1	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Chukchi Sea	2	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Chukchi Sea	3	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Chukchi Sea	4	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Chukchi Sea	5	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Chukchi Sea	6	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Cook Inlet	1	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Cook Inlet	2	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Cook Inlet	3	0.6	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Cook Inlet	4	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Cook Inlet	5	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Cook Inlet	6	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kodiak/Shelikof Strait	1	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kodiak/Shelikof Strait	2	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kodiak/Shelikof Strait	3	0.6	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kodiak/Shelikof Strait	4	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kodiak/Shelikof Strait	5	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kodiak/Shelikof Strait	6	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kotzebue Sound/Hope Basin	3	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kotzebue Sound/Hope Basin	4	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kotzebue Sound/Hope Basin	5	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Kotzebue Sound/Hope Basin	6	0.2	RB1, RB2, RB3, RB7, RB8, RB35

Common_Name	AK_Region	Season	Abundance	References
Short-tailed Shearwater	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Norton Sound/St. Lawrence Is.	3	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Norton Sound/St. Lawrence Is.	4	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Norton Sound/St. Lawrence Is.	5	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Norton Sound/St. Lawrence Is.	6	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Offshore Kenai Peninsula	1	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Offshore Kenai Peninsula	2	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Offshore Kenai Peninsula	3	0.6	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Offshore Kenai Peninsula	4	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Offshore Kenai Peninsula	5	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Offshore Kenai Peninsula	6	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Prince William Sound	1	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Prince William Sound	2	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Prince William Sound	3	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Prince William Sound	4	0.6	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Prince William Sound	5	0.6	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Prince William Sound	6	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	South-Central Alaska	1	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	South-Central Alaska	2	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	South-Central Alaska	3	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	South-Central Alaska	4	0.6	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	South-Central Alaska	5	0.6	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	South-Central Alaska	6	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Southeast Alaska	1	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Southeast Alaska	2	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Southeast Alaska	3	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Southeast Alaska	4	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Southeast Alaska	5	0.4	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Southeast Alaska	6	0.2	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Western Alaska	1	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Western Alaska	2	0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Western Alaska	3	0.6	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Western Alaska	4	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Western Alaska	5	1.0	RB1, RB2, RB3, RB7, RB8, RB35
Short-tailed Shearwater	Western Alaska	6	0.2	RB1, RB2, RB3, RB7, RB8, RB35

Table 30. Snow crab abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Snow crab	Aleutians	1	0.8	DR37, DR42, DR43
Snow crab	Aleutians	2	0.8	DR37, DR42, DR43
Snow crab	Aleutians	3	0.8	DR37, DR42, DR43
Snow crab	Aleutians	4	0.8	DR37, DR42, DR43
Snow crab	Aleutians	5	0.8	DR37, DR42, DR43
Snow crab	Aleutians	6	0.8	DR37, DR42, DR43
Snow crab	Aniakchak	1	0	DR37, DR42, DR43
Snow crab	Aniakchak	2	0	DR37, DR42, DR43
Snow crab	Aniakchak	3	0	DR37, DR42, DR43

Common_Name	AK_Region	Season	Abundance	References
Snow crab	Aniakchak	4	0	DR37, DR42, DR43
Snow crab	Aniakchak	5	0	DR37, DR42, DR43
Snow crab	Aniakchak	6	0	DR37, DR42, DR43
Snow crab	Beaufort Sea	1	0.2	DR37, DR42, DR43
Snow crab	Beaufort Sea	2	0.2	DR37, DR42, DR43
Snow crab	Beaufort Sea	3	0.2	DR37, DR42, DR43
Snow crab	Beaufort Sea	4	0.2	DR37, DR42, DR43
Snow crab	Beaufort Sea	5	0.2	DR37, DR42, DR43
Snow crab	Beaufort Sea	6	0.2	DR37, DR42, DR43
Snow crab	Bristol Bay	1	0	DR37, DR42, DR43
Snow crab	Bristol Bay	2	0	DR37, DR42, DR43
Snow crab	Bristol Bay	3	0	DR37, DR42, DR43
Snow crab	Bristol Bay	4	0	DR37, DR42, DR43
Snow crab	Bristol Bay	5	0	DR37, DR42, DR43
Snow crab	Bristol Bay	6	0	DR37, DR42, DR43
Snow crab	Chukchi Sea	1	0.4	DR37, DR42, DR43
Snow crab	Chukchi Sea	2	0.4	DR37, DR42, DR43
Snow crab	Chukchi Sea	3	0.4	DR37, DR42, DR43
Snow crab	Chukchi Sea	4	0.4	DR37, DR42, DR43
Snow crab	Chukchi Sea	5	0.4	DR37, DR42, DR43
Snow crab	Chukchi Sea	6	0.4	DR37, DR42, DR43
Snow crab	Cook Inlet	1	0	DR37, DR42, DR43
Snow crab	Cook Inlet	2	0	DR37, DR42, DR43
Snow crab	Cook Inlet	3	0	DR37, DR42, DR43
Snow crab	Cook Inlet	4	0	DR37, DR42, DR43
Snow crab	Cook Inlet	5	0	DR37, DR42, DR43
Snow crab	Cook Inlet	6	0	DR37, DR42, DR43
Snow crab	Kodiak/Shelikof Strait	1	0	DR37, DR42, DR43
Snow crab	Kodiak/Shelikof Strait	2	0	DR37, DR42, DR43
Snow crab	Kodiak/Shelikof Strait	3	0	DR37, DR42, DR43
Snow crab	Kodiak/Shelikof Strait	4	0	DR37, DR42, DR43
Snow crab	Kodiak/Shelikof Strait	5	0	DR37, DR42, DR43
Snow crab	Kodiak/Shelikof Strait	6	0	DR37, DR42, DR43
Snow crab	Kotzebue Sound/Hope Basin	1	0.4	DR37, DR42, DR43
Snow crab	Kotzebue Sound/Hope Basin	2	0.4	DR37, DR42, DR43
Snow crab	Kotzebue Sound/Hope Basin	3	0.4	DR37, DR42, DR43
Snow crab	Kotzebue Sound/Hope Basin	4	0.4	DR37, DR42, DR43
Snow crab	Kotzebue Sound/Hope Basin	5	0.4	DR37, DR42, DR43
Snow crab	Kotzebue Sound/Hope Basin	6	0.4	DR37, DR42, DR43
Snow crab	Norton Sound/St. Lawrence Is.	1	1	DR37, DR42, DR43
Snow crab	Norton Sound/St. Lawrence Is.	2	1	DR37, DR42, DR43
Snow crab	Norton Sound/St. Lawrence Is.	3	1	DR37, DR42, DR43
Snow crab	Norton Sound/St. Lawrence Is.	4	1	DR37, DR42, DR43
Snow crab	Norton Sound/St. Lawrence Is.	5	1	DR37, DR42, DR43
Snow crab	Norton Sound/St. Lawrence Is.	6	1	DR37, DR42, DR43
Snow crab	Offshore Kenai Peninsula	1	0	DR37, DR42, DR43
Snow crab	Offshore Kenai Peninsula	2	0	DR37, DR42, DR43
Snow crab	Offshore Kenai Peninsula	3	0	DR37, DR42, DR43
Snow crab	Offshore Kenai Peninsula	4	0	DR37, DR42, DR43

Common_Name	AK_Region	Season	Abundance	References
Snow crab	Offshore Kenai Peninsula	5	0	DR37, DR42, DR43
Snow crab	Offshore Kenai Peninsula	6	0	DR37, DR42, DR43
Snow crab	Prince William Sound	1	0	DR37, DR42, DR43
Snow crab	Prince William Sound	2	0	DR37, DR42, DR43
Snow crab	Prince William Sound	3	0	DR37, DR42, DR43
Snow crab	Prince William Sound	4	0	DR37, DR42, DR43
Snow crab	Prince William Sound	5	0	DR37, DR42, DR43
Snow crab	Prince William Sound	6	0	DR37, DR42, DR43
Snow crab	South-Central Alaska	1	0	DR37, DR42, DR43
Snow crab	South-Central Alaska	2	0	DR37, DR42, DR43
Snow crab	South-Central Alaska	3	0	DR37, DR42, DR43
Snow crab	South-Central Alaska	4	0	DR37, DR42, DR43
Snow crab	South-Central Alaska	5	0	DR37, DR42, DR43
Snow crab	South-Central Alaska	6	0	DR37, DR42, DR43
Snow crab	Southeast Alaska	1	0	DR37, DR42, DR43
Snow crab	Southeast Alaska	2	0	DR37, DR42, DR43
Snow crab	Southeast Alaska	3	0	DR37, DR42, DR43
Snow crab	Southeast Alaska	4	0	DR37, DR42, DR43
Snow crab	Southeast Alaska	5	0	DR37, DR42, DR43
Snow crab	Southeast Alaska	6	0	DR37, DR42, DR43
Snow crab	Western Alaska	1	1	DR37, DR42, DR43
Snow crab	Western Alaska	2	1	DR37, DR42, DR43
Snow crab	Western Alaska	3	1	DR37, DR42, DR43
Snow crab	Western Alaska	4	1	DR37, DR42, DR43
Snow crab	Western Alaska	5	1	DR37, DR42, DR43
Snow crab	Western Alaska	6	1	DR37, DR42, DR43

Table 31. Sperm whale abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Sperm Whale	Aleutians	1	0.4	DR1, DR7
Sperm Whale	Aleutians	2	0.4	DR1, DR7
Sperm Whale	Aleutians	3	0.4	DR1, DR7
Sperm Whale	Aleutians	4	1	DR1, DR7
Sperm Whale	Aleutians	5	1	DR1, DR7
Sperm Whale	Aleutians	6	0.4	DR1, DR7
Sperm Whale	Aniakchak	1	0.4	DR1, DR7
Sperm Whale	Aniakchak	2	0.4	DR1, DR7
Sperm Whale	Aniakchak	3	0.4	DR1, DR7
Sperm Whale	Aniakchak	4	0.6	DR1, DR7
Sperm Whale	Aniakchak	5	0.6	DR1, DR7
Sperm Whale	Aniakchak	6	0.4	DR1, DR7
Sperm Whale	Beaufort Sea	1	0	DR1, DR7
Sperm Whale	Beaufort Sea	2	0	DR1, DR7
Sperm Whale	Beaufort Sea	3	0	DR1, DR7
Sperm Whale	Beaufort Sea	4	0	DR1, DR7
Sperm Whale	Beaufort Sea	5	0	DR1, DR7
Sperm Whale	Beaufort Sea	6	0	DR1, DR7
Sperm Whale	Bristol Bay	1	0	DR1, DR7

Common_Name	AK_Region	Season	Abundance	References
Sperm Whale	Bristol Bay	2	0	DR1, DR7
Sperm Whale	Bristol Bay	3	0	DR1, DR7
Sperm Whale	Bristol Bay	4	0	DR1, DR7
Sperm Whale	Bristol Bay	5	0	DR1, DR7
Sperm Whale	Bristol Bay	6	0	DR1, DR7
Sperm Whale	Chukchi Sea	1	0	DR1, DR7
Sperm Whale	Chukchi Sea	2	0	DR1, DR7
Sperm Whale	Chukchi Sea	3	0	DR1, DR7
Sperm Whale	Chukchi Sea	4	0	DR1, DR7
Sperm Whale	Chukchi Sea	5	0	DR1, DR7
Sperm Whale	Chukchi Sea	6	0	DR1, DR7
Sperm Whale	Cook Inlet	1	0	DR1, DR7
Sperm Whale	Cook Inlet	2	0	DR1, DR7
Sperm Whale	Cook Inlet	3	0	DR1, DR7
Sperm Whale	Cook Inlet	4	0	DR1, DR7
Sperm Whale	Cook Inlet	5	0	DR1, DR7
Sperm Whale	Cook Inlet	6	0	DR1, DR7
Sperm Whale	Kodiak/Shelikof Strait	1	0.4	DR1, DR7
Sperm Whale	Kodiak/Shelikof Strait	2	0.4	DR1, DR7
Sperm Whale	Kodiak/Shelikof Strait	3	0.4	DR1, DR7
Sperm Whale	Kodiak/Shelikof Strait	4	0.6	DR1, DR7
Sperm Whale	Kodiak/Shelikof Strait	5	0.6	DR1, DR7
Sperm Whale	Kodiak/Shelikof Strait	6	0.4	DR1, DR7
Sperm Whale	Kotzebue Sound/Hope Basin	1	0	DR1, DR7
Sperm Whale	Kotzebue Sound/Hope Basin	2	0	DR1, DR7
Sperm Whale	Kotzebue Sound/Hope Basin	3	0	DR1, DR7
Sperm Whale	Kotzebue Sound/Hope Basin	4	0	DR1, DR7
Sperm Whale	Kotzebue Sound/Hope Basin	5	0	DR1, DR7
Sperm Whale	Kotzebue Sound/Hope Basin	6	0	DR1, DR7
Sperm Whale	Norton Sound/St. Lawrence Is.	1	0	DR1, DR7
Sperm Whale	Norton Sound/St. Lawrence Is.	2	0	DR1, DR7
Sperm Whale	Norton Sound/St. Lawrence Is.	3	0	DR1, DR7
Sperm Whale	Norton Sound/St. Lawrence Is.	4	0	DR1, DR7
Sperm Whale	Norton Sound/St. Lawrence Is.	5	0	DR1, DR7
Sperm Whale	Norton Sound/St. Lawrence Is.	6	0	DR1, DR7
Sperm Whale	Offshore Kenai Peninsula	1	0.4	DR1, DR7
Sperm Whale	Offshore Kenai Peninsula	2	0.4	DR1, DR7
Sperm Whale	Offshore Kenai Peninsula	3	0.4	DR1, DR7
Sperm Whale	Offshore Kenai Peninsula	4	0.6	DR1, DR7
Sperm Whale	Offshore Kenai Peninsula	5	0.6	DR1, DR7
Sperm Whale	Offshore Kenai Peninsula	6	0.4	DR1, DR7
Sperm Whale	Prince William Sound	1	0	DR1, DR7
Sperm Whale	Prince William Sound	2	0	DR1, DR7
Sperm Whale	Prince William Sound	3	0	DR1, DR7
Sperm Whale	Prince William Sound	4	0	DR1, DR7
Sperm Whale	Prince William Sound	5	0	DR1, DR7
Sperm Whale	Prince William Sound	6	0	DR1, DR7
Sperm Whale	South-Central Alaska	1	0.4	DR1, DR7
Sperm Whale	South-Central Alaska	2	0.4	DR1, DR7

Common_Name	AK_Region	Season	Abundance	References
Sperm Whale	South-Central Alaska	3	0.4	DR1, DR7
Sperm Whale	South-Central Alaska	4	0.6	DR1, DR7
Sperm Whale	South-Central Alaska	5	0.6	DR1, DR7
Sperm Whale	South-Central Alaska	6	0.4	DR1, DR7
Sperm Whale	Southeast Alaska	1	0.4	DR1, DR7
Sperm Whale	Southeast Alaska	2	0.4	DR1, DR7
Sperm Whale	Southeast Alaska	3	0.4	DR1, DR7
Sperm Whale	Southeast Alaska	4	0.6	DR1, DR7
Sperm Whale	Southeast Alaska	5	0.6	DR1, DR7
Sperm Whale	Southeast Alaska	6	0.4	DR1, DR7
Sperm Whale	Western Alaska	1	0.4	DR1, DR7
Sperm Whale	Western Alaska	2	0.4	DR1, DR7
Sperm Whale	Western Alaska	3	0.4	DR1, DR7
Sperm Whale	Western Alaska	4	0.6	DR1, DR7
Sperm Whale	Western Alaska	5	0.6	DR1, DR7
Sperm Whale	Western Alaska	6	0.4	DR1, DR7

Table 32. Squid abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Squid	Aleutians	1	1	DR30, DR31, DR32
Squid	Aleutians	2	1	DR30, DR31, DR32
Squid	Aleutians	3	1	DR30, DR31, DR32
Squid	Aleutians	4	1	DR30, DR31, DR32
Squid	Aleutians	5	1	DR30, DR31, DR32
Squid	Aleutians	6	1	DR30, DR31, DR32
Squid	Aniakchak	1	0.8	DR30, DR31, DR32
Squid	Aniakchak	2	0.8	DR30, DR31, DR32
Squid	Aniakchak	3	0.8	DR30, DR31, DR32
Squid	Aniakchak	4	0.8	DR30, DR31, DR32
Squid	Aniakchak	5	0.8	DR30, DR31, DR32
Squid	Aniakchak	6	0.8	DR30, DR31, DR32
Squid	Beaufort Sea	1	0	DR30, DR31, DR32
Squid	Beaufort Sea	2	0	DR30, DR31, DR32
Squid	Beaufort Sea	3	0	DR30, DR31, DR32
Squid	Beaufort Sea	4	0	DR30, DR31, DR32
Squid	Beaufort Sea	5	0	DR30, DR31, DR32
Squid	Beaufort Sea	6	0	DR30, DR31, DR32
Squid	Bristol Bay	1	0	DR30, DR31, DR32
Squid	Bristol Bay	2	0	DR30, DR31, DR32
Squid	Bristol Bay	3	0	DR30, DR31, DR32
Squid	Bristol Bay	4	0	DR30, DR31, DR32
Squid	Bristol Bay	5	0	DR30, DR31, DR32
Squid	Bristol Bay	6	0	DR30, DR31, DR32
Squid	Chukchi Sea	1	0	DR30, DR31, DR32
Squid	Chukchi Sea	2	0	DR30, DR31, DR32
Squid	Chukchi Sea	3	0	DR30, DR31, DR32
Squid	Chukchi Sea	4	0	DR30, DR31, DR32
Squid	Chukchi Sea	5	0	DR30, DR31, DR32

Common_Name	AK_Region	Season	Abundance	References
Squid	Chukchi Sea	6	0	DR30, DR31, DR32
Squid	Cook Inlet	1	0.2	DR30, DR31, DR32
Squid	Cook Inlet	2	0.2	DR30, DR31, DR32
Squid	Cook Inlet	3	0.2	DR30, DR31, DR32
Squid	Cook Inlet	4	0.2	DR30, DR31, DR32
Squid	Cook Inlet	5	0.2	DR30, DR31, DR32
Squid	Cook Inlet	6	0.2	DR30, DR31, DR32
Squid	Kodiak/Shelikof Strait	1	0.6	DR30, DR31, DR32
Squid	Kodiak/Shelikof Strait	2	0.6	DR30, DR31, DR32
Squid	Kodiak/Shelikof Strait	3	0.6	DR30, DR31, DR32
Squid	Kodiak/Shelikof Strait	4	0.6	DR30, DR31, DR32
Squid	Kodiak/Shelikof Strait	5	0.6	DR30, DR31, DR32
Squid	Kodiak/Shelikof Strait	6	0.6	DR30, DR31, DR32
Squid	Kotzebue Sound/Hope Basin	1	0	DR30, DR31, DR32
Squid	Kotzebue Sound/Hope Basin	2	0	DR30, DR31, DR32
Squid	Kotzebue Sound/Hope Basin	3	0	DR30, DR31, DR32
Squid	Kotzebue Sound/Hope Basin	4	0	DR30, DR31, DR32
Squid	Kotzebue Sound/Hope Basin	5	0	DR30, DR31, DR32
Squid	Kotzebue Sound/Hope Basin	6	0	DR30, DR31, DR32
Squid	Norton Sound/St. Lawrence Is.	1	0.2	DR30, DR31, DR32
Squid	Norton Sound/St. Lawrence Is.	2	0.2	DR30, DR31, DR32
Squid	Norton Sound/St. Lawrence Is.	3	0.2	DR30, DR31, DR32
Squid	Norton Sound/St. Lawrence Is.	4	0.2	DR30, DR31, DR32
Squid	Norton Sound/St. Lawrence Is.	5	0.2	DR30, DR31, DR32
Squid	Norton Sound/St. Lawrence Is.	6	0.2	DR30, DR31, DR32
Squid	Offshore Kenai Peninsula	1	0.4	DR30, DR31, DR32
Squid	Offshore Kenai Peninsula	2	0.4	DR30, DR31, DR32
Squid	Offshore Kenai Peninsula	3	0.4	DR30, DR31, DR32
Squid	Offshore Kenai Peninsula	4	0.4	DR30, DR31, DR32
Squid	Offshore Kenai Peninsula	5	0.4	DR30, DR31, DR32
Squid	Offshore Kenai Peninsula	6	0.4	DR30, DR31, DR32
Squid	Prince William Sound	1	0.4	DR30, DR31, DR32
Squid	Prince William Sound	2	0.4	DR30, DR31, DR32
Squid	Prince William Sound	3	0.4	DR30, DR31, DR32
Squid	Prince William Sound	4	0.4	DR30, DR31, DR32
Squid	Prince William Sound	5	0.4	DR30, DR31, DR32
Squid	Prince William Sound	6	0.4	DR30, DR31, DR32
Squid	South-Central Alaska	1	0.2	DR30, DR31, DR32
Squid	South-Central Alaska	2	0.2	DR30, DR31, DR32
Squid	South-Central Alaska	3	0.2	DR30, DR31, DR32
Squid	South-Central Alaska	4	0.2	DR30, DR31, DR32
Squid	South-Central Alaska	5	0.2	DR30, DR31, DR32
Squid	South-Central Alaska	6	0.2	DR30, DR31, DR32
Squid	Southeast Alaska	1	0.2	DR30, DR31, DR32
Squid	Southeast Alaska	2	0.2	DR30, DR31, DR32
Squid	Southeast Alaska	3	0.2	DR30, DR31, DR32
Squid	Southeast Alaska	4	0.2	DR30, DR31, DR32
Squid	Southeast Alaska	5	0.2	DR30, DR31, DR32
Squid	Southeast Alaska	6	0.2	DR30, DR31, DR32

Common_Name	AK_Region	Season	Abundance	References
Squid	Western Alaska	1	0.4	DR30, DR31, DR32
Squid	Western Alaska	2	0.4	DR30, DR31, DR32
Squid	Western Alaska	3	0.4	DR30, DR31, DR32
Squid	Western Alaska	4	0.4	DR30, DR31, DR32
Squid	Western Alaska	5	0.4	DR30, DR31, DR32
Squid	Western Alaska	6	0.4	DR30, DR31, DR32

Table 33. Steller sea lion abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Steller Sea Lion	Aleutians	1	0.6	DR1, RB39
Steller Sea Lion	Aleutians	2	0.6	DR1, RB39
Steller Sea Lion	Aleutians	3	0.8	DR1, RB39
Steller Sea Lion	Aleutians	4	0.8	DR1, RB39
Steller Sea Lion	Aleutians	5	0.6	DR1, RB39
Steller Sea Lion	Aleutians	6	0.6	DR1, RB39
Steller Sea Lion	Aniakchak	1	0.4	DR1, RB39
Steller Sea Lion	Aniakchak	2	0.4	DR1, RB39
Steller Sea Lion	Aniakchak	3	0.6	DR1, RB39
Steller Sea Lion	Aniakchak	4	0.6	DR1, RB39
Steller Sea Lion	Aniakchak	5	0.4	DR1, RB39
Steller Sea Lion	Aniakchak	6	0.4	DR1, RB39
Steller Sea Lion	Beaufort Sea	1	0	DR1, RB39
Steller Sea Lion	Beaufort Sea	2	0	DR1, RB39
Steller Sea Lion	Beaufort Sea	3	0	DR1, RB39
Steller Sea Lion	Beaufort Sea	4	0	DR1, RB39
Steller Sea Lion	Beaufort Sea	5	0	DR1, RB39
Steller Sea Lion	Beaufort Sea	6	0	DR1, RB39
Steller Sea Lion	Bristol Bay	1	0.2	DR1, RB39
Steller Sea Lion	Bristol Bay	2	0.2	DR1, RB39
Steller Sea Lion	Bristol Bay	3	0.2	DR1, RB39
Steller Sea Lion	Bristol Bay	4	0.2	DR1, RB39
Steller Sea Lion	Bristol Bay	5	0.2	DR1, RB39
Steller Sea Lion	Bristol Bay	6	0.2	DR1, RB39
Steller Sea Lion	Chukchi Sea	1	0	DR1, RB39
Steller Sea Lion	Chukchi Sea	2	0	DR1, RB39
Steller Sea Lion	Chukchi Sea	3	0	DR1, RB39
Steller Sea Lion	Chukchi Sea	4	0	DR1, RB39
Steller Sea Lion	Chukchi Sea	5	0	DR1, RB39
Steller Sea Lion	Chukchi Sea	6	0	DR1, RB39
Steller Sea Lion	Cook Inlet	1	0.4	DR1, RB39
Steller Sea Lion	Cook Inlet	2	0.4	DR1, RB39
Steller Sea Lion	Cook Inlet	3	0.6	DR1, RB39
Steller Sea Lion	Cook Inlet	4	0.6	DR1, RB39
Steller Sea Lion	Cook Inlet	5	0.4	DR1, RB39
Steller Sea Lion	Cook Inlet	6	0.4	DR1, RB39
Steller Sea Lion	Kodiak/Shelikof Strait	1	0.4	DR1, RB39
Steller Sea Lion	Kodiak/Shelikof Strait	2	0.4	DR1, RB39
Steller Sea Lion	Kodiak/Shelikof Strait	3	0.6	DR1, RB39

Common_Name	AK_Region	Season	Abundance	References
Steller Sea Lion	Kodiak/Shelikof Strait	4	0.6	DR1, RB39
Steller Sea Lion	Kodiak/Shelikof Strait	5	0.4	DR1, RB39
Steller Sea Lion	Kodiak/Shelikof Strait	6	0.4	DR1, RB39
Steller Sea Lion	Kotzebue Sound/Hope Basin	1	0	DR1, RB39
Steller Sea Lion	Kotzebue Sound/Hope Basin	2	0	DR1, RB39
Steller Sea Lion	Kotzebue Sound/Hope Basin	3	0	DR1, RB39
Steller Sea Lion	Kotzebue Sound/Hope Basin	4	0	DR1, RB39
Steller Sea Lion	Kotzebue Sound/Hope Basin	5	0	DR1, RB39
Steller Sea Lion	Kotzebue Sound/Hope Basin	6	0	DR1, RB39
Steller Sea Lion	Norton Sound/St. Lawrence Is..	1	0.2	DR1, RB39
Steller Sea Lion	Norton Sound/St. Lawrence Is.	2	0.2	DR1, RB39
Steller Sea Lion	Norton Sound/St. Lawrence Is.	3	0.2	DR1, RB39
Steller Sea Lion	Norton Sound/St. Lawrence Is.	4	0.2	DR1, RB39
Steller Sea Lion	Norton Sound/St. Lawrence Is.	5	0.2	DR1, RB39
Steller Sea Lion	Norton Sound/St. Lawrence Is.	6	0.2	DR1, RB39
Steller Sea Lion	Offshore Kenai Peninsula	1	0.4	DR1, RB39
Steller Sea Lion	Offshore Kenai Peninsula	2	0.4	DR1, RB39
Steller Sea Lion	Offshore Kenai Peninsula	3	0.6	DR1, RB39
Steller Sea Lion	Offshore Kenai Peninsula	4	0.6	DR1, RB39
Steller Sea Lion	Offshore Kenai Peninsula	5	0.4	DR1, RB39
Steller Sea Lion	Offshore Kenai Peninsula	6	0.4	DR1, RB39
Steller Sea Lion	Prince William Sound	1	0.4	DR1, RB39
Steller Sea Lion	Prince William Sound	2	0.4	DR1, RB39
Steller Sea Lion	Prince William Sound	3	0.6	DR1, RB39
Steller Sea Lion	Prince William Sound	4	0.6	DR1, RB39
Steller Sea Lion	Prince William Sound	5	0.4	DR1, RB39
Steller Sea Lion	Prince William Sound	6	0.4	DR1, RB39
Steller Sea Lion	South-Central Alaska	1	0.4	DR1, RB39
Steller Sea Lion	South-Central Alaska	2	0.4	DR1, RB39
Steller Sea Lion	South-Central Alaska	3	0.6	DR1, RB39
Steller Sea Lion	South-Central Alaska	4	0.6	DR1, RB39
Steller Sea Lion	South-Central Alaska	5	0.4	DR1, RB39
Steller Sea Lion	South-Central Alaska	6	0.4	DR1, RB39
Steller Sea Lion	Southeast Alaska	1	0.8	DR1, RB39
Steller Sea Lion	Southeast Alaska	2	0.8	DR1, RB39
Steller Sea Lion	Southeast Alaska	3	1.0	DR1, RB39
Steller Sea Lion	Southeast Alaska	4	1.0	DR1, RB39
Steller Sea Lion	Southeast Alaska	5	0.8	DR1, RB39
Steller Sea Lion	Southeast Alaska	6	0.8	DR1, RB39
Steller Sea Lion	Western Alaska	1	0.2	DR1, RB39
Steller Sea Lion	Western Alaska	2	0.2	DR1, RB39
Steller Sea Lion	Western Alaska	3	0.2	DR1, RB39
Steller Sea Lion	Western Alaska	4	0.2	DR1, RB39
Steller Sea Lion	Western Alaska	5	0.2	DR1, RB39
Steller Sea Lion	Western Alaska	6	0.2	DR1, RB39

Table 34. Steller's eider abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Steller's Eider	Aleutians	1	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aleutians	2	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aleutians	3	0.4	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aleutians	4	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aleutians	5	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aleutians	6	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aniakchak	1	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aniakchak	2	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aniakchak	3	0.4	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aniakchak	4	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aniakchak	5	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Aniakchak	6	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Beaufort Sea	1	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Beaufort Sea	2	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Beaufort Sea	3	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Beaufort Sea	4	1.0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Beaufort Sea	5	1.0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Beaufort Sea	6	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Bristol Bay	1	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Bristol Bay	2	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Bristol Bay	3	0.4	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Bristol Bay	4	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Bristol Bay	5	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Bristol Bay	6	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Chukchi Sea	1	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Chukchi Sea	2	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Chukchi Sea	3	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Chukchi Sea	4	1.0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38

Common_Name	AK_Region	Season	Abundance	References
Steller's Eider	Chukchi Sea	5	1.0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Chukchi Sea	6	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Cook Inlet	1	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Cook Inlet	2	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Cook Inlet	3	0.4	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Cook Inlet	4	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Cook Inlet	5	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Cook Inlet	6	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kodiak/Shelikof Strait	1	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kodiak/Shelikof Strait	2	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kodiak/Shelikof Strait	3	0.4	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kodiak/Shelikof Strait	4	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kodiak/Shelikof Strait	5	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kodiak/Shelikof Strait	6	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kotzebue Sound/Hope Basin	3	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kotzebue Sound/Hope Basin	4	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kotzebue Sound/Hope Basin	5	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Kotzebue Sound/Hope Basin	6	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Norton Sound/St. Lawrence Is.	3	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Norton Sound/St. Lawrence Is.	4	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Norton Sound/St. Lawrence Is.	5	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Norton Sound/St. Lawrence Is.	6	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Offshore Kenai Peninsula	1	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Offshore Kenai Peninsula	2	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Offshore Kenai Peninsula	3	0.4	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38

Common_Name	AK_Region	Season	Abundance	References
Steller's Eider	Offshore Kenai Peninsula	4	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Offshore Kenai Peninsula	5	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Offshore Kenai Peninsula	6	0.6	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Prince William Sound	1	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Prince William Sound	2	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Prince William Sound	3	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Prince William Sound	4	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Prince William Sound	5	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Prince William Sound	6	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	South-Central Alaska	1	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	South-Central Alaska	2	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	South-Central Alaska	3	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	South-Central Alaska	4	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	South-Central Alaska	5	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	South-Central Alaska	6	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Southeast Alaska	1	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Southeast Alaska	2	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Southeast Alaska	3	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Southeast Alaska	4	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Southeast Alaska	5	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Southeast Alaska	6	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Western Alaska	1	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Western Alaska	2	0	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Western Alaska	3	0.4	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Western Alaska	4	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Western Alaska	5	0.8	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Steller's Eider	Western Alaska	6	0.2	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38

Table 35. Walleye pollock abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Walleye Pollock	Aleutians	1	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aleutians	2	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aleutians	3	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aleutians	4	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aleutians	5	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aleutians	6	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aniakchak	1	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aniakchak	2	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aniakchak	3	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aniakchak	4	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aniakchak	5	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Aniakchak	6	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Beaufort Sea	1	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Beaufort Sea	2	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Beaufort Sea	3	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Beaufort Sea	4	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Beaufort Sea	5	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Beaufort Sea	6	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Bristol Bay	1	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Bristol Bay	2	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Bristol Bay	3	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Bristol Bay	4	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Bristol Bay	5	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Bristol Bay	6	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Chukchi Sea	1	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Chukchi Sea	2	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Chukchi Sea	3	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Chukchi Sea	4	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37

Common_Name	AK_Region	Season	Abundance	References
Walleye Pollock	Chukchi Sea	5	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Chukchi Sea	6	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Cook Inlet	1	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Cook Inlet	2	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Cook Inlet	3	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Cook Inlet	4	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Cook Inlet	5	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Cook Inlet	6	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kodiak/Shelikof Strait	1	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kodiak/Shelikof Strait	2	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kodiak/Shelikof Strait	3	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kodiak/Shelikof Strait	4	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kodiak/Shelikof Strait	5	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kodiak/Shelikof Strait	6	0.6	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kotzebue Sound/Hope Basin	1	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kotzebue Sound/Hope Basin	2	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kotzebue Sound/Hope Basin	3	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kotzebue Sound/Hope Basin	4	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kotzebue Sound/Hope Basin	5	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Kotzebue Sound/Hope Basin	6	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Norton Sound/St. Lawrence Is.	1	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Norton Sound/St. Lawrence Is.	2	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Norton Sound/St. Lawrence Is.	3	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Norton Sound/St. Lawrence Is.	4	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Norton Sound/St. Lawrence Is.	5	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Norton Sound/St. Lawrence Is.	6	0.8	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Offshore Kenai Peninsula	1	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Offshore Kenai Peninsula	2	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Offshore Kenai Peninsula	3	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37

Common_Name	AK_Region	Season	Abundance	References
Walleye Pollock	Offshore Kenai Peninsula	4	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Offshore Kenai Peninsula	5	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Offshore Kenai Peninsula	6	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Prince William Sound	1	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Prince William Sound	2	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Prince William Sound	3	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Prince William Sound	4	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Prince William Sound	5	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Prince William Sound	6	0.4	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	South-Central Alaska	1	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	South-Central Alaska	2	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	South-Central Alaska	3	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	South-Central Alaska	4	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	South-Central Alaska	5	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	South-Central Alaska	6	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Southeast Alaska	1	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Southeast Alaska	2	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Southeast Alaska	3	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Southeast Alaska	4	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Southeast Alaska	5	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Southeast Alaska	6	0.2	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Western Alaska	1	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Western Alaska	2	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Western Alaska	3	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Western Alaska	4	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Western Alaska	5	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37
Walleye Pollock	Western Alaska	6	1	DR21, DR30, DR33, DR34, DR35, DR36, DR37

Table 36. Weathervane scallop abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Weathervane scallop	Aleutians	1	0.8	DR28, DR29, DR30, DR44
Weathervane scallop	Aleutians	2	0.8	DR28, DR29, DR30, DR44
Weathervane scallop	Aleutians	3	0.8	DR28, DR29, DR30, DR44
Weathervane scallop	Aleutians	4	0.8	DR28, DR29, DR30, DR44
Weathervane scallop	Aleutians	5	0.8	DR28, DR29, DR30, DR44
Weathervane scallop	Aleutians	6	0.8	DR28, DR29, DR30, DR44
Weathervane scallop	Aniakchak	1	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Aniakchak	2	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Aniakchak	3	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Aniakchak	4	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Aniakchak	5	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Aniakchak	6	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Beaufort Sea	1	0	DR28, DR29, DR30, DR44
Weathervane scallop	Beaufort Sea	2	0	DR28, DR29, DR30, DR44
Weathervane scallop	Beaufort Sea	3	0	DR28, DR29, DR30, DR44
Weathervane scallop	Beaufort Sea	4	0	DR28, DR29, DR30, DR44
Weathervane scallop	Beaufort Sea	5	0	DR28, DR29, DR30, DR44
Weathervane scallop	Beaufort Sea	6	0	DR28, DR29, DR30, DR44
Weathervane scallop	Bristol Bay	1	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Bristol Bay	2	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Bristol Bay	3	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Bristol Bay	4	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Bristol Bay	5	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Bristol Bay	6	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Chukchi Sea	1	0	DR28, DR29, DR30, DR44
Weathervane scallop	Chukchi Sea	2	0	DR28, DR29, DR30, DR44
Weathervane scallop	Chukchi Sea	3	0	DR28, DR29, DR30, DR44
Weathervane scallop	Chukchi Sea	4	0	DR28, DR29, DR30, DR44
Weathervane scallop	Chukchi Sea	5	0	DR28, DR29, DR30, DR44
Weathervane scallop	Chukchi Sea	6	0	DR28, DR29, DR30, DR44
Weathervane scallop	Cook Inlet	1	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Cook Inlet	2	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Cook Inlet	3	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Cook Inlet	4	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Cook Inlet	5	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Cook Inlet	6	0.4	DR28, DR29, DR30, DR44
Weathervane scallop	Kodiak/Shelikof Strait	1	1	DR28, DR29, DR30, DR44
Weathervane scallop	Kodiak/Shelikof Strait	2	1	DR28, DR29, DR30, DR44
Weathervane scallop	Kodiak/Shelikof Strait	3	1	DR28, DR29, DR30, DR44
Weathervane scallop	Kodiak/Shelikof Strait	4	1	DR28, DR29, DR30, DR44
Weathervane scallop	Kodiak/Shelikof Strait	5	1	DR28, DR29, DR30, DR44
Weathervane scallop	Kodiak/Shelikof Strait	6	1	DR28, DR29, DR30, DR44
Weathervane scallop	Kotzebue Sound/Hope Basin	1	0	DR28, DR29, DR30, DR44
Weathervane scallop	Kotzebue Sound/Hope Basin	2	0	DR28, DR29, DR30, DR44
Weathervane scallop	Kotzebue Sound/Hope Basin	3	0	DR28, DR29, DR30, DR44
Weathervane scallop	Kotzebue Sound/Hope Basin	4	0	DR28, DR29, DR30, DR44
Weathervane scallop	Kotzebue Sound/Hope Basin	5	0	DR28, DR29, DR30, DR44
Weathervane scallop	Kotzebue Sound/Hope Basin	6	0	DR28, DR29, DR30, DR44

Common_Name	AK_Region	Season	Abundance	References
Weathervane scallop	Norton Sound/St. Lawrence Is.	1	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Norton Sound/St. Lawrence Is.	2	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Norton Sound/St. Lawrence Is.	3	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Norton Sound/St. Lawrence Is.	4	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Norton Sound/St. Lawrence Is.	5	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Norton Sound/St. Lawrence Is.	6	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Offshore Kenai Peninsula	1	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Offshore Kenai Peninsula	2	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Offshore Kenai Peninsula	3	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Offshore Kenai Peninsula	4	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Offshore Kenai Peninsula	5	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Offshore Kenai Peninsula	6	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Prince William Sound	1	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Prince William Sound	2	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Prince William Sound	3	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Prince William Sound	4	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Prince William Sound	5	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Prince William Sound	6	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	South-Central Alaska	1	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	South-Central Alaska	2	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	South-Central Alaska	3	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	South-Central Alaska	4	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	South-Central Alaska	5	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	South-Central Alaska	6	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	Southeast Alaska	1	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	Southeast Alaska	2	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	Southeast Alaska	3	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	Southeast Alaska	4	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	Southeast Alaska	5	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	Southeast Alaska	6	0.6	DR28, DR29, DR30, DR44
Weathervane scallop	Western Alaska	1	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Western Alaska	2	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Western Alaska	3	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Western Alaska	4	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Western Alaska	5	0.2	DR28, DR29, DR30, DR44
Weathervane scallop	Western Alaska	6	0.2	DR28, DR29, DR30, DR44

Table 37. Western sandpiper abundance scores by region and season. For reference codes see Table 53.

Common_Name	AK_Region	Season	Abundance	References
Western Sandpiper	Aleutians	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aleutians	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aleutians	3	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aleutians	4	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aleutians	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aleutians	6	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aniakchak	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aniakchak	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aniakchak	3	0.2	RB1, RB2, RB3, RB8, RB11

Common_Name	AK_Region	Season	Abundance	References
Western Sandpiper	Aniakchak	4	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aniakchak	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Aniakchak	6	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Beaufort Sea	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Beaufort Sea	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Beaufort Sea	3	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Beaufort Sea	4	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Beaufort Sea	5	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Beaufort Sea	6	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Bristol Bay	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Bristol Bay	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Bristol Bay	3	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Bristol Bay	4	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Bristol Bay	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Bristol Bay	6	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Chukchi Sea	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Chukchi Sea	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Chukchi Sea	3	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Chukchi Sea	4	0.8	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Chukchi Sea	5	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Chukchi Sea	6	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Cook Inlet	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Cook Inlet	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Cook Inlet	3	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Cook Inlet	4	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Cook Inlet	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Cook Inlet	6	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kodiak/Shelikof Strait	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kodiak/Shelikof Strait	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kodiak/Shelikof Strait	3	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kodiak/Shelikof Strait	4	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kodiak/Shelikof Strait	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kodiak/Shelikof Strait	6	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kotzebue Sound/Hope Basin	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kotzebue Sound/Hope Basin	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kotzebue Sound/Hope Basin	3	1.0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kotzebue Sound/Hope Basin	4	1.0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kotzebue Sound/Hope Basin	5	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Kotzebue Sound/Hope Basin	6	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Norton Sound/St. Lawrence Is.	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Norton Sound/St. Lawrence Is.	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Norton Sound/St. Lawrence Is.	3	1.0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Norton Sound/St. Lawrence Is.	4	1.0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Norton Sound/St. Lawrence Is.	5	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Norton Sound/St. Lawrence Is.	6	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Offshore Kenai Peninsula	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Offshore Kenai Peninsula	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Offshore Kenai Peninsula	3	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Offshore Kenai Peninsula	4	0.4	RB1, RB2, RB3, RB8, RB11

Common_Name	AK_Region	Season	Abundance	References
Western Sandpiper	Offshore Kenai Peninsula	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Offshore Kenai Peninsula	6	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Prince William Sound	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Prince William Sound	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Prince William Sound	3	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Prince William Sound	4	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Prince William Sound	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Prince William Sound	6	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	South-Central Alaska	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	South-Central Alaska	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	South-Central Alaska	3	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	South-Central Alaska	4	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	South-Central Alaska	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	South-Central Alaska	6	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Southeast Alaska	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Southeast Alaska	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Southeast Alaska	3	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Southeast Alaska	4	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Southeast Alaska	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Southeast Alaska	6	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Western Alaska	1	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Western Alaska	2	0	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Western Alaska	3	0.2	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Western Alaska	4	0.6	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Western Alaska	5	0.4	RB1, RB2, RB3, RB8, RB11
Western Sandpiper	Western Alaska	6	0	RB1, RB2, RB3, RB8, RB11

Table 38. Species abundance rationales. For coded references see Table 53.

Species	Species Group	Abundance Rationale	Reference Codes
Steller's eider	Bird	Minimal abundance data exists for Steller's eiders in Alaska. Seasonal distribution maps were used as the main reference for abundance data (ebird 2013, Sibley 2000). Each seasonal distribution map was cross-referenced with each of the others to determine a more complete coverage and representation for the species. There are only a few critical habitat locations (66 FR 8850) and these locations have been reflected in greater corresponding regional abundances. The majority of the Steller's eider population in Alaska winters in the Aleutians through to Cook Inlet, but not to Prince William Sound (ADFG 2013a). This population migrates north to summer/breed on the North Slope, Hope Basin, and a small section of the Western Alaska region near Kipnuk, AK. Regional abundances in these northern/Arctic regions are increased in summer months.	RB1, RB2, RB3, RB4, RB5, RB6, RB30, RB31, RB32, RB33, RB35, RB37, RB38
Short-tailed shearwater	Bird	Short tailed shearwaters are among the most abundant bird species in Alaskan pelagic waters during summer months (USFWS 2006e). Shearwaters migrate to the southern hemisphere during the northern winter to breed. From the USFWS species profile (USFWS 2006e): "Birds that arrive in Alaskan waters reside there, roughly between May and September. The heaviest concentrations are over the continental shelf in the southern Bering Sea, and along the western Gulf of Alaska. Fewer birds are found in the Chukchi and Beaufort Seas and the central and eastern Gulf of Alaska. Some non-breeders may remain in Alaska throughout the northern winter." These trends are confirmed by ebird observation data, with more discreet seasonality able to be applied (ebird 2013, ESI Atlas). Winter sightings are rare and confined to the Aleutians and western Gulf of Alaska through the Cook Inlet.	RB1, RB2, RB3, RB7, RB8, RB35
Red-necked phalarope	Bird	The red necked phalarope is a seasonal resident to Alaskan coasts where it breeds during the northern summer. The breeding season runs from late-May through August (BirdLife International 2012e), though stragglers appear in Alaska a bit prior to and after this season (ebird 2013). The greatest abundances are found on the North Slope along the Beaufort Sea, Chukchi Sea, and Hope Basin. The Gulf of Alaska is home to a large migratory population as well (ebird 2013). During summer months, the species may be found in all coastal regions of Alaska in some numbers (ebird 2013, ESI Atlas, ADFG 2003). Red necked phalarope are absent in Alaska during December-January.	RB1, RB2, RB3, RB9, RB10
Western sandpiper	Bird	Western sandpiper are a migratory species with a small breeding range, but a vast migratory distribution throughout Alaska (Fernandez et al. 2006). The species breeds in Alaska in the northern summer and migrates to subtropical and tropical climes in the northern winter. The breeding range in limited to western and northern Alaska with other parts of Alaska serving as stopovers for the migration. Western sandpipers migrate north through temperate latitudes generally between mid-April and mid-May. Once begun, this migration moves quickly with only short stopovers (Fernandez et al. 2006). This trend is confirmed with ebird observation data (ebird 2013) and ESI data. In contrast to the northward migration, the southbound movement from the breeding ground is more protracted. Western sandpiper migrate south from mid-June to November. This is reflected in reduced abundances spread across Alaska through late summer and fall.	RB1, RB2, RB3, RB8, RB11

Species	Species Group	Abundance Rationale	Reference Codes
Bald eagle	Bird	Bald eagles are resident to the southern portion of Alaska, and have a winter range stretching from the Aleutian Islands to Southeastern Alaska (BirdLife International 2012c, ADFG 2013o). During fall and early winter, when food for bald eagles is limited in most parts of Southeast Alaska, thousands of eagles congregate in Alaska's Chilkat Valley just north of Haines (Wright and Schrempf 2008). Southeast Alaska contains the largest wintering and breeding populations of bald eagles in North America (Wright and Schrempf 2008). Seasonal migration of bald eagles in the spring/summer/fall brings increased abundances to the southern coast of Alaska from areas south of Alaska. Additionally, some small populations of bald eagles from southern Alaska and other more southern areas move to more northern ranges including the North Slope (ebird 2013, ESI 2013, BirdLife International 2012c). Several sources indicate the range of bald eagle does not include the North Slope; however ebird contains numerous confirmed sightings of individuals indicating rare abundance (ebird 2013).	RB1, RB2, RB3, RB12, RB13, RB14, RB30, RB31, RB32, RB34, RB36
Northern pintail	Bird	The northern pintail has one of the most extensive breeding ranges of any North American duck (Tesky 1993). Its summer breeding range extends to the North Slope of Alaska (Tesky 1993, BirdLife International 2012a). On the Yukon flats, northern pintails began to nest May 8 to 18 (Tesky 1993). After their postbreeding molt, northern pintails migrate to wintering grounds from mid-August through at least late September. They start to leave their wintering grounds for Alaska in late January or early February, and departure continues through March (dependent on wintering latitude). A small percentage of the northern pintail population winters in southern Alaska (Tesky 1993, eBird 2013).Much of this noted seasonality is confirmed in ebird with low abundances of northern pintail in southern Alaska during the winter months (and just before and after winter) and high abundances on the North Slope and western Alaska for a few months in summer (ebird 2013).	RB1, RB2, RB3, RB15, RB8, RB16
Black-legged kittiwake	Bird	The black-legged kittiwake contains both resident and seasonal breeding populations within the state of Alaska (Sibley 2000). Resident populations occur in the southern portion of the state ranging from the southeastern tip to the Aleutians. The migratory/breeding population begins to move north in April and May and rarely reaches the North Slope during this time period, while also becoming more common along the southern portion of the state as migrators move in (eBird 2013). By June, all breeding pairs are present and in high abundances along the southern portion of the state with the greatest abundances in and offshore of Prince William Sound and Cook Inlet (eBird 2013, USFWS 2004). By late fall, abundances in the northern portion of the state are quite low (ebird 2013, USFWS 2006a).	RB1, RB2, RB3, RB8, RB17, RB18
Marbled murrelet	Bird	The marbled murrelet occurs year round in in southern Alaska, and seasonally in western portions of Alaska (Sibley 2000). Marbled murrelet do not occur on the North Slope. A distinct, but unknown portion of the population migrates to protected waters, offshore areas, or unknown locations during the winter months (USFWS 2006c, ADFG 2013b). This uncertainty makes determining precise winter abundances of marbled murrelet difficult. The greatest abundances of marbled murrelet occur from southeastern Alaska through to Cook Inlet and Kodiak Island (ebird 2013, USFWS 2006c). The Aleutian Islands also play host to a small population of year round individuals. In summer months a small migratory population enters western Alaska up to Norton Sound (Sibley 2000, eBird 2013).	RB1, RB2, RB3, RB19, RB20, RB36, RB37
Dunlin	Bird	Dunlin are year- round residents in low abundance in the southern portion of Alaska (Sibley 2000, ebird 2013). From the spring through fall seasons, two subspecies migrate to Alaska (BirdLife International 2012b, Senner 1981). The *sakhalina* subspecies migrates from Russia to the North Slope and northwestern portion of Alaska beginning in April and May (BirdLife Int. 2012, eBird 2013). The *pacifica* subspecies is both a year-round resident from the Aleutians to the Southeastern portion of the state, and has a more southerly migratory population that moves into the Western portion of the state and Norton Sound in the spring and summer months (BirdLife Int. 2012, eBird 2013). The greatest abundances of dunlin in Alaska are found on the North Slope in summer months (ebird 2013). Dunlin conduct their fall migration to southern wintering grounds in late fall (through October).	RB1, RB2, RB3, RB21, RB22

Species	Species Group	Abundance Rationale	Reference Codes
Harlequin duck	Bird	A portion of the western Harlequin duck population winters in the Aleutian Islands and south coast of Alaska (ebird 2013, Sibley 2000, ADFG 2007, BirdLife International 2012d). Of this population, some may breed in spring/summer close to where they winter, while others may migrate to more northern areas of Alaska, or even Russia (ADFG 2007). Additionally, other populations of Harlequin duck that winter south of Alaska migrate to Alaska to breed in the spring and summer. Norton Sound and Hope Basin see particularly large abundances of Harlequin ducks migrate there in spring and summer, while the North Slope hosts only low abundances of breeding pairs (ebird 2013, ADFG 2007). During this time period, the Aleutian Islands and south coast also see an influx of additional Harlequin ducks with the greatest populations occurring from late spring through summer on the south coast, particularly around Kodiak Island (ebird 2013, Sibley 2000, ADFG 2007).	RB1, RB2, RB3, RB23, RB24
Short-tailed albatross	Bird	The short-tailed albatross is a federally-listed endangered species with a worldwide population below 2,000 individuals (ADFG 2013c). The species breeds on a few remote islands in tropical Pacific waters from October through January (ADFG 2013c). However, juvenile short-tailed albatross do not frequent the nesting sites prior to maturity (ages 6-8). As a result, there are some individuals present in Alaskan waters during these breeding time periods (Sibley 2000, ebird 2013, ADFG 2013c). Short-tailed albatross is an open ocean species that is most frequently sighted off the Aleutian islands, the western Bering Sea and along the south coast of Alaska (Sibley 2000, ebird 2013, USFWS 2006d). The species does not occur in northern Alaska or in Cook Inlet or Prince William Sound (ebird 2013, USFWS 2006d). The greatest abundances of short-tailed albatross in Alaskan marine waters are along the Aleutian Islands during the summer months (ebird 2013, USFWS 2006d, Birdlife International 2012f).	RB1, RB2, RB3, RB25, RB26, RB27, RB31, RB32, RB37
Common murre	Bird	The common murre is one of the most abundant marine birds in the northern hemisphere (USFWS 2006b, BirdLife International 2012g). It is a common year-round resident in southern and western Alaska (ebird 2013, Sibley 2000, USFWS 2006b). The common murre is most abundant in southeast Alaska during all seasons (ebird 2013). In Alaska, common murres breed in southeast Alaska, the Gulf of Alaska, on the Aleutian Islands, and north to Point Hope (USFWS 2006b). Areas of particular significance are St. George Island, Bird Rock, Shaiak Island, North Twin, Round, and Hall Islands, and Cape Lisburnne (USFWS 2006b). Common murre are occasional summer visitors to the Hope Basin and the North Slope, though unlikely to frequently breed at such high latitudes (ebird 2013, Sibley 2000).	RB1, RB2, RB3, RB28, RB29
North Pacific right whale	Mammals and Turtles	The current population of North Pacific right whales is estimated to be in the low hundreds, so abundance data is sparse and unreliable (Allen and Angliss 2013). Current geographic range is thought to extend to 60°N, and excludes Cook Inlet, Prince William Sound, and interior portions of Bristol Bay (73 FR 19000). Brownell et al. (2001) reviewed all 20th century sightings catches, and strandings by broad geographic area. This analysis forms the basis of the relative abundance assumed for this study. The critical habitat area designated within the Bering Sea appears to be the most important habitat area for the remaining population, therefore this region was assumed to have the highest relative abundance. Although right whales are less frequently observed in this area, another critical habitat area is designated offshore Kodiak Island, so this area was assigned a slightly higher relative abundance than surrounding waters in the Gulf of Alaska. In general, sightings in the Gulf of Alaska are currently very rare. Seasonality is based on 2000-2006 passive acoustic monitoring that indicates that the whales arrive in the Bering Sea in May and leave in December, with peak calling activity in July-October (ADFG 2013d).	DR1, DR2,DR3, DR4

Species	Species Group	Abundance Rationale	Reference Codes
Sperm whale	Mammals and Turtles	According to the 2013 stock assessment, current estimates of sperm whale abundance in the North Pacific are unreliable (Allen and Angliss 2013). The northernmost extent of their range is thought to be 62°N (Allen and Angliss 2013). Sperm whales prefer deeper waters, and therefore were assumed to not be present in Cook Inlet, Prince William Sound, or Bristol Bay. Males concentrate along the Aleutians and Bering Sea shelf edge in summer (Mizroch and Rice 2013). They have also been detected year round in the Gulf of Alaska by acoustic surveys, although they are more common in summer (Allen and Angliss 2013). For the purposes of this study, relative abundance was assumed to be highest in the Aleutians Islands subregion in June-September, with slightly less abundance in the Western Alaska subregion and Gulf of Alaska subregions. For the remainder of the year, sperm whales are assumed to be present throughout their range, but in lower abundance than during the summer months.	DR1, DR7
Northern fur seal	Mammals and Turtles	Alaska's Pribilof Islands serve as the breeding grounds for over two-thirds of the world's population of northern fur seals; no other breeding sites exist in Alaska (ADFG 2008a). Male fur seals are present in in the Pribilof's from May-August, with some present through November (Allen and Angliss 2013). Females are present from June-November (Allen and Angliss 2013). During this breeding period, northern fur seals are very unlikely to be present in any numbers outside of the Pribilof's, including juveniles (Sterling and Ream 2004). Outside of the breeding season both males and females live offshore and do not haulout during this time (Allen and Angliss 2013). After the breeding season males generally move only as far as the Gulf of Alaska and the Kuril Islands. Females move through the Aleutian Islands and may go as far south as California (Allen and Angliss 2013). Both males and females are highly dispersed during this time period, and rare abundances are likely found in southern Alaskan waters (except for during return migration when they may be uncommonly dispersed through southern Alaska). Northern fur seal do not regularly enter Bristol Bay, Cook Inlet, or Prince William Sound, preferring more offshore habitat when at sea.	DR1, RB40, RB41
Steller sea lion	Mammals and Turtles	Steller sea lions are a non-migratory species with well documented haulout sites and stock assessments available (Allen and Angliss 2013). Two distinct populations exist, a western stock and an eastern stock, with the dividing line occurring just east of Prince William Sound. Population estimates for the Southeast Alaska portion of the eastern stock indicate this region has the highest Steller sea lion abundance in Alaska (~24,447 individuals) (Allen and Angliss 2013). Along the Gulf of Alaska through to the Aleutian Islands, sea lion density remains fairly evenly dispersed with haulouts occurring regularly (Allen and Angliss 2013). Populations along this stretch are lower than along the southeast portion of Alaska with estimates for the Gulf of Alaska region at 10,931 individuals and 10,559 individuals in Bering Sea and Aleutians. The vast majority of these individuals occur in the Aleutians. These population estimates are from the breeding season (May-July), and though this species is non-migratory, they do disperse widely outside of the breeding season (ADFG 2013p). Because movements are not systematic during these time periods, all abundance scores are reduced one "level" outside of the breeding season due to this dispersal.	DR1, RB39

Species	Species Group	Abundance Rationale	Reference Codes
Polar bear	Mammals and Turtles	There are two polar bear stocks recognized in Alaska: the Chukchi/Bering Seas stock, and the Southern Beaufort Sea stock. The ranges of these two stocks overlap in the Chukchi and Beaufort Seas (Allen and Angliss 2013). Tagging studies indicate that bears marked in the Beaufort Sea spend about 25% of their time in the northeastern Chukchi Sea, and bears marked in the Chukchi Sea spend only about 6% of their time in the Beaufort Sea (Allen and Angliss 2013). The Southern Beaufort stock is currently estimated to consist of 1,526 individuals. A reliable estimate for the Chukchi/Bering stock is not available; the best guess is about 2,000 individuals (Allen and Angliss 2013). In winter, polar bears from the Chukchi/Bering stock move south with the advancing ice (USFWS 2008) and range as far south as St. Lawrence Island, occasionally extending to St. Matthew Island and the Kuskokwim Delta. In summer, they move north (USFWS 2008a) and are most abundant around the pack ice edge in the Chukchi Sea and Arctic Ocean (ADFG 2013e). Polar bear movements are driven by regional ice dynamics, so the seasonal ice extent averages calculated for this project were also used to inform the assignment of relative abundance.	DR1, DR19, DR20
Humpback whale	Mammals and Turtles	In Alaska, most humpback whales are seasonal migrants that come to Alaska to feed in summer (Allen and Angliss 2013), but some whales can be seen at any time of year (ADFG 2008c). In the summer months, the majority of humpbacks are found in the Aleutians, Bering Sea, Gulf of Alaska, and Southeast Alaska. Small numbers are also known to occur in northern Bristol Bay, the Chukchi Sea, and the Beaufort Sea (Allen and Angliss 2013). Areas of particularly high density include the eastern Aleutians, the northern side of Unalaska Island, the Bering shelf edge and break to the north towards the Pribilof Islands, Shumagin Islands, south and east of Kodiak Island, and from the Barren Islands through Prince William Sound (Allen and Angliss 2013). Abundance estimates from a large-scale study of humpback whales conducted 2004-2006 were 6,000-14,000 for the Bering Sea/Aleutians, 3,000-5,000 for the Gulf of Alaska, and 3,000-5,000 for Southeast Alaska (Calambokidis et al. 2008); this information was used to help inform the assignment of relative abundances. Although ADFG (2008c) notes that humpbacks may occur throughout the year, for the purposes of this study the assumption was made that these occurrences would be limited to south of the Bering Strait during the winter months.	DR1, DR14, DR15
Beluga	Mammals and Turtles	Beluga whales in Alaska are divided into 5 stocks: Cook Inlet, Bristol Bay, eastern Bering Sea, eastern Chukchi Sea, and Beaufort Sea. Current population estimates are available for each of these stocks (Allen and Angliss 2013); this information formed the basis of the assignment of relative abundance. The Cook Inlet and Bristol Bay stocks are thought to remain within their respective regions year-round. The eastern Bering sea, eastern Chukchi Sea, and Beaufort Sea stocks winter in the Bering Sea and return to their respective areas in summer (ADFG 2013f).	DR1, DR9
Pacific walrus	Mammals and Turtles	Pacific walrus range throughout shelf waters of the Bering and Chukchi Seas, and can occasionally be found in the Beaufort Sea (USFWS 2013d). In winter, the entire population is found in the Bering Sea (Jay et al. 2011). In spring, most of the population migrates northward into the Chukchi Sea and many males move towards three main aggregations in (1) coastal areas in the Gulf of Anadyr, (2) south of St. Lawrence Island, and (3) the southeast Bering Sea south of Nunivak Island into northwest Bristol Bay (USFWS 2013d, Jay et al. 2011). In autumn females and juveniles move back to the Bering Sea, with males joining in late autumn/winter (Jay et al. 2011). Foraging distribution maps from Jay et al. (2012) were also used to inform relative abundance in the Chukchi Sea region during June-November.	DR16, DR17, DR18
Northern sea otter	Mammals and Turtles	Sea otter relative abundance was derived from the 2013 draft stock assessment reports, which contain estimates of abundance by geographic region (USFWS 2013a,b,c). The same relative abundance was applied to all seasons, as sea otters in Alaska are not migratory (Allen and Angliss 2013) and have relatively small home ranges (USFWS 2013a,b,c).	DR1, D11, D12, D13

Species	Species Group	Abundance Rationale	Reference Codes
Bowhead whale	Mammals and Turtles	In Alaska, the distribution of bowhead whales is generally restricted to waters north of 60°N. They undertake annual migrations between wintering areas in the northern Bering Sea and summering areas in the Beaufort Sea. According to Allen and Angliss (2013), they spend December-March in the northern Bering Sea, April-May migrating through the Chukchi Sea, June-September in the Beaufort Sea, and October-December migrating back to the Bering Sea. Some whales have been observed in the Chukchi and Bering Seas in summer. According to ADFG (2008b), bowheads summer in the Canadian Beaufort mid-May-June, migrate across the U.S. Beaufort in August-October, and pass through the Bering Strait by November. Seasonal distributions were further refined using 1979-2010 sightings data from the Alaska Fisheries Science Center (AFSC 2010).	DR1, DR8, DR10
Ringed seal	Mammals and Turtles	In Alaska, ringed seal occur as far south as Bristol Bay in years of extensive ice, but are generally not abundant south of Norton Sound (Allen and Angliss 2013). Migration patterns are not well known (Allen and Angliss 2013, Kelly et al. 2010), but the seals are thought to winter in the Bering and Chukchi Seas, migrating north in spring to the northern Chukchi and Beaufort Seas and summering there. In the fall, they move south and west and disperse throughout the Chukchi and Bering Seas, with a portion of the population remaining in the Beaufort Sea (Allen and Angliss 2013). During the birthing/nursing and basking periods (early winter to ice break-up in about July), ringed seals have a relatively small home range, likely because of the need to maintain breathing holes in the ice. Between the ice break-up and the freeze-up in fall, ringed seal undertake more extensive movements (Kelly et al. 2010).	DR1, DR45
Leatherback sea turtle	Mammals and Turtles	Leatherback turtles are infrequent in Alaskan waters and abundance information is unavailable. Nineteen sightings have been reported in Alaska between 1960 and 2007 (ADFG 2013g). Most of these observations are in Southeast Alaska, but also occur near the Copper River flats and Perryville (Walton et al. 2012). The Alaska Department of Fish and Game (ADFG) species profile shows their Alaskan range as spanning the Gulf of Alaska and southern waters of the Bering Sea (ADFG 2013g). However, their presence in Alaska is likely relatively to food availability during the late summer and fall, and the Alaska Natural Heritage Program (AKNHP) profile shows a summer range that includes only the offshore waters of the Gulf of Alaska (Walton et al. 2012). Relative abundance was assumed to be highest within the AKNHP range during summer and fall; all regions within this range were assigned a value of 1 except for the Aleutians (which was assigned a score of 0.6), since only a small portion of this region falls within the range. Leatherbacks were assumed to be rare throughout the ADFG range during the winter and spring, and rare in Cook Inlet, Prince William Sound, and Bristol Bay during the summer/fall.	DR5, DR46
Atka mackerel	Fish and Invertebrates	In Alaska, Atka mackerel are found on the continental shelf in the Aleutian Islands, north to the Pribilof Islands in the Bering Sea, and through the Gulf of Alaska (ADFG 2013h). Highest abundances are in the central and western Aleutians (Lowe et al. 2012; ADFG 2013h). Historically, the Gulf of Alaska stock supported a large fishery, but by the mid-1980s the fishery had collapsed and the population of Atka mackerel in this region has remained low (Lowe 2011). The Gulf of Alaska may be at the edge of the species' range. However, juveniles may move into the Gulf of Alaska under favorable conditions and recent detections have been made in the summer trawl survey, mostly in the Shumagin area (western Gulf) (Lowe 2011). To supplement this information, we calculated an average catch per unit effort (CPUE) index for a 400 km^2 grid using data from the Alaska Fisheries Science Center groundfish observer program 1993-2013 (AFSC 2013). Seasonal migrations take place between nearshore and offshore waters (ADFG 2013h), but the overall regional distribution was assumed to remain relatively constant throughout the year.	DR21, DR22, DR23, DR24

Species	Species Group	Abundance Rationale	Reference Codes
Pacific herring	Fish and Invertebrates	Pacific herring range from southeastern Alaska up to the Hope Basin with very minimal abundances in the western Chukchi Sea (ADFG 2013i, Whitehead 1985). The species contains localized populations that exhibit inshore-offshore migrations during the breeding season, but display limited north-south migrations (ADFG 2013i, Whitehead 1985). Pacific herring have very localized breeding populations, and while one coastal stream may have low populations, an adjacent stream may have a healthy population. Pacific herring generally spawn during the spring and do not display significant breeding season migrations. Therefore, no seasonal differences in adult Pacific herring populations by planning area are assumed. Overall, Alaska herring stocks are considered well managed for their long-term sustained yield. The Arctic Fishery Management Plan indicates a very minimal biomass in the Chukchi Sea and no population in the Beaufort Sea (NPFMC 2009). In Southeast Alaska, herring abundance is trending upwards since 1980, but contains a Distinct Population Segment (DPS) of Pacific herring that is a candidate for listing under the Endangered Species Act (NMFS 2012). The Pacific herring population in Prince William Sound collapsed in 1993 (ADFG 2013i). Additionally, the Cook Inlet population is severely diminished due to overfishing (Otis and Cope 2004). Outside of these regions, there is minimal quantitative information distinguishing abundances on a regional scale, though populations are assumed to be healthy in these areas (Gretsch 2005). Populations are assumed to be lower at the edges of the species range.	RB46, RB47, DR37, RB48, RB49, RB54
Pacific halibut	Fish and Invertebrates	In Alaska, Pacific halibut are found on or near the continental shelf from the southeast to the Chukchi Sea. A combination of sources was used to assess relative abundance, including range maps (ADFG 2013j; Kaschner et al. 2010), International Pacific Halibut Commission setline survey weight per unit effort data (Stewart et al. 2013), and gridded CPUE data calculated from the Alaska Fisheries Science Center groundfish observer program 1993-2013 (AFSC 2013). Pacific halibut are known to undertake long-distance migrations and adults move seasonally between nearshore feeding areas and offshore spawning areas (ADFG 2013j). In the absence of more specific seasonal information, the overall regional distribution was assumed to remain relatively constant throughout the year.	DR21, DR39, DR41, RB100
Arrowtooth flounder	Fish and Invertebrates	Arrowtooth flounder are found in the eastern Bering Sea, Aleutians, and Gulf of Alaska (Kaschner et al. 2010) and are currently one of the most abundant groundfishes in the Gulf of Alaska (Turnock and Wilderbuer 2011). Based on the most recent stock assessments, the biomass of the Gulf of Alaska stock is estimated to be higher than the Bering Sea stock (Turnock and Wilderbuer 2011; Spies et al. 2012). High abundances are found to the southwest and northeast of Kodiak Island (Turnock and Wilderbuer 2011). Turnock and Wilderbuer (2011) present catch per unit effort (CPUE) maps from trawl survey data; this information was used to help assign the geographic distribution of relative abundance. We also calculated an average CPUE index for a 400 km^2 grid using data from the Alaska Fisheries Science Center groundfish observer program 1993-2013 (AFSC 2013). Seasonal migrations take place between nearshore and offshore waters, but the overall regional distribution was assumed to remain relatively constant throughout the year.	DR21, DR26, DR27, RB100

Species	Species Group	Abundance Rationale	Reference Codes
Pink salmon	Fish and Invertebrates	Pink salmon are found throughout the state of Alaska year-round (ADFG 2013k).The species has a two-year life cycle, with the two-year-old age class breeding/dying and the one-year-old age class remaining at sea (ADFG 2013k). This creates interesting dynamics in marine abundances within Alaska. The two-year-old age class moves into streams to breed from late June through mid-October, effectively reducing marine populations during this time period. Juveniles migrate down from streams into marine waters during spring, effectively increasing marine populations during this time (ADFG 2013k). These seasonal population dynamics are reflected in all entered abundances. Alaskan commercial harvest records (2003-2012) as well as 2013 population projections indicate pink salmon populations are greatest in Southeastern AK (ADFG 2013l; Eggers et al. 2013) with projections of 54 million pink salmon. Prince William Sound, Kodiak, and the Aleutian Islands all have high population levels as well (ADFG 2013l). Bristol Bay, Aniakchak and Cook Inlet have sizable, but relatively small populations. Populations appear to be small in Western Alaska and along the North Slope.	RB51, RB52, RB53
Squid	Fish and Invertebrates	Squids in Alaska are managed as a complex that includes all known squid species in the region (at least 15 species). Squid are short-lived, grow rapidly, and have patchy distributions (Ormseth 2012a), making it difficult to assess their abundance. The best available proxy for abundance is catch data from recent stock assessments (Ormseth 2012a,b). Average catch by NMFS statistical area of all squid species was compiled for 2003-2011 and used to assign relative abundance. The Essential Fish Habitat distribution for the species (NOAA 2013) was also considered. Since the species of the squid complex vary in their life history strategies and seasonal patterns, insufficient information is available to determine relative abundance by season. Thus, relative abundance was assumed to remain constant throughout the year, although in reality there is likely some seasonal variation.	DR30, DR31, DR32
Snow crab (opilio)	Fish and Invertebrates	Snow crab are found on the continental shelf in the Bering, Chukchi, and Beaufort Seas, but are not present in the Gulf of Alaska (ADFG 2013m; NPFMC 2009). Relative abundance in the Bering Sea regions was based on a map of catch rate (kg/ha) data from the 2010 eastern and northern Bering Sea continental shelf bottom trawl survey (Lauth 2011). Surveyed biomass estimates were also available for the Chukchi and Beaufort Seas from the Artic Fishery Management Plan (NPFMC 2009). Based on this information, the biomass in the Chukchi is about one third of the biomass in the eastern Bering Sea. Biomass in the Beaufort Sea is less than in the Chukchi Sea. Migration patterns of male and female snow crab are not well understood (ADFG 2013m), so relative abundance was assumed to remain constant throughout the year.	DR37, DR42, DR43
Walleye pollock	Fish and Invertebrates	Relative abundances for walleye pollock were assigned based on estimated catch data from the 2012 stock assessments (Barbeaux et al. 2012; Ianelli et al. 2012a,b; Dorn et al. 2012) and surveyed biomass estimates from the Arctic Fishery Management Plan (NPFMC 2009). For the Bering Sea and Gulf of Alaska, catch data from 2001-2011 were compiled and averaged by NMFS statistical area. We also calculated an average CPUE index for a 400 km^2 grid using data from the Alaska Fisheries Science Center groundfish observer program 1993-2013 (AFSC 2013). The Essential Fish Habitat distribution for the species (NOAA 2013) was also considered. Overall regional distribution was assumed to remain relatively constant throughout the year.	DR21, DR30, DR33, DR34, DR35, DR36, DR37

Species	Species Group	Abundance Rationale	Reference Codes
Arctic cod	Fish and Invertebrates	Minimal information is available on biomass or seasonal movements of Arctic cod within Alaskan waters. The Arctic Fishery Management Plan estimates biomass in the Chukchi Sea and Hope Basin to be roughly twice as great as is found in the Beaufort Sea (NPFMC 2009). Other references indicate that these North Slope regions are most likely to be the areas of greatest Arctic cod biomass in Alaska, as it is a polar species (Morrow 1980, Coad and Resit 2004). Lauth (2011) indicates some abundance of Arctic cod in Norton Sound and along Western Alaska with minimal populations entering the northern section of the Aleutians subregion. Migration patterns are unknown aside from inshore-offshore movements (Morrow 1980). Because of this and the fact the species is known to inhabit under ice regions (Cohen et al. 1990), their seasonal distribution is assumed to be relatively constant throughout the year. For instance, breeding is known to occur during winter months in the Beaufort Sea (Cohen et al. 1990), suggesting no migration away from polar regions in ice-cover seasons. Abundances for Arctic cod for regions outside the North Slope are based on a reduction in numbers as they move further from their center of aggregation (polar). The southern limit of their was range derived from the FAO range map/description (Cohen et al. 1990).	DR37, DR43, RB43, RB44, RB45
Arctic cisco	Fish and Invertebrates	When present in Alaska, Arctic cisco only occur in the Beaufort Sea. Arctic cisco found in the Alaskan Beaufort Sea are believed to originate from spawning grounds in the Mackenzie River system (Fechhelm 1999).Young-of-the-year cisco move to Alaska from Canada in summer (Fechhelm 1999). In spring, newly hatched young-of-the-year are flushed downriver, and some are transported westward to Alaska by wind-driven coastal currents (Fechhelm 1999). In summers with strong and persistent easterly winds, enhanced westward transport can carry fish to Alaska's Colville River, where they take up winter residence. They remain in the Colville River until the onset of sexual maturity at about age seven; then they migrate back to the Mackenzie River to spawn (Fechhelm 1999). During the ice-free summer, Arctic cisco disperse out of the Colville River to forage in coastal waters. Fish eventually migrate back to overwintering grounds in the Colville River before the onset of freeze-up in September (Fechhelm 1999). The exceptions are Arctic cisco that have reached reproductive maturity and return to Canada to spawn.	RB42
Euphausiids	Fish and Invertebrates	While some modeled euphausiid abundance data are available for parts of Alaska, the data coverage was insufficient to assess relative abundance for the entire state. As a result, primary production data by BOEM OCS planning area (Balcom et al. 2011) were used as a proxy for euphausiid abundance. Monthly mean net primary production (NPP) as mg C m-2d-1 was estimated from graphs for January 1998-April 2010 and averaged for the six seasonal periods of interest in this study. NPP data was not available for Prince William Sound; for this reason, the relative abundance scores from the Offshore Prince William Sound subregion were applied.	DR38
Weathervane scallop	Fish and Invertebrates	Weathervane scallops occur in the Gulf of Alaska and in the Bering Sea to the Pribilof Islands. Highest densities are observed along the eastern Gulf coast from Cape Spencer to Cape St. Elias, around Kodiak Island, and in the southern Bering Sea (NPFMC 2006). To assign relative abundance, primary sources included 2011/2012 catch per unit effort data from the stock assessment (NPFMC 2013), as well as the Essential Fish Habitat distribution (NOAA 2013) and range map for the species (ADFG 2013n). Overall regional distribution was assumed to remain relatively constant throughout the year.	DR28, DR29, DR30, DR44

1.3 Impact Scores

Table 39. Bird impact parameter scores. Table is sorted by greatest species final impact scores. For detailed descriptions of each impact parameter see Section 4.2.3. For reference codes see Table 53.

Common_Name	Night_ Roosting	Avoidance _Attraction	Feeding_ Method	Site_ Fidelity	Flocking	Nesting_ Concer	Feeding_ Specia	Sum_of_ Bird_ Impact _Scores	Final_ Impact_ Score	Notes
Steller's Eider	5	4	5	3	5	1	3	26	78.8	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – A22 – Provided by OVI *Feeding Method* – RB4 - feeds at surface *Site Fidelity* – RB4 - maintain nests in arctic AK- has site fidelity. Molts and winters in Autumn winter in southern AK *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – RB4 - Steller's eiders primarily eat insect larvae associated with freshwater wetlands but may also eat aquatic plants. In marine habitats they eat small fish and saltwater invertebrates, including snails, clams, worms, and echinoderms found in the bottom sediment.
Common Murre	5	4	1	3	5	5	3	26	78.8	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – A22 – Provided by OVI *Feeding Method* – RB29 - Common murre are surface divers that swim underwater *Site Fidelity* – RB29 - maintain nests in AK, many winter in AK as well *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – RB29 - fish prey - eat primarily pollock, but capable of taking a variety of other prey
Marbled Murrelet	5	4	1	3	3	5	3	24	72.7	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – A22 – Provided by OVI *Feeding Method* – RB19 - Murrelets are excellent swimmers and use their strong wings to literally "fly" underwater to forage at depths up to 100 feet. *Site Fidelity* – RB19 - maintains nests in SE AK and winters there *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – RB19 - In Alaska, murrelets eat small schooling fish, such as Capelin, Pacific Herring and Pacific Sand Lance, as well as shrimp-like crustaceans (all one similar trophic level).

Common_Name	Night_ Roosting	Avoidance _Attraction	Feeding_ Method	Site_ Fidelity	Flocking	Nesting_ Concen	Feeding_ Specia	Sum_of_ Bird_ Impact _Scores	Final_ Impact_ Score	Notes
Black-legged Kittiwake	3	1	5	2	3	5	3	22	66.7	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – A22 – Provided by OVI *Feeding Method* – RB17 - Feed at surface: Food is obtained by dipping or seizing the prey from the sea surface or sometimes plunge diving. *Site Fidelity* – RB17 - maintain nests in AK, few winter in AK with broader range *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – RB17 - feed on many species of fish and zooplankton
Red-necked Phalarope	5	1	5	2	5	1	3	22	66.7	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – A22 – Provided by OVI *Feeding Method* – RB10 - Feeds at surface *Site Fidelity* – RB10 - maintains nest in AK, does not winter in AK *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – RB10 - At sea, these birds feed on zooplankton such as krill, copepods, arrow worms, and amphipods. Phalaropes have even been seen gleaning parasites from the backs of whales. A44 - The birds feed on copepod-sized zooplankton, brought to the surface by the passage of strong tidal streams over shallow, rocky 'ledges', and concentrated there in upwelling and convergence 'streaks'.
Harlequin Duck	1	4	5	2	3	1	3	19	57.6	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – A22 – Provided by OVI *Feeding Method* – A23 - Divers *Site Fidelity* – A23 -maintains nests in arctic AK, some winter in AK, but small numbers *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – A23 - feed primarily on a variety of intertidal benthic invertebrates. Snails, periwinkles, small clams, limpets, chitons, blue mussels, hermit crabs and amphipods
Northern Pintail	1	4	5	2	3	1	1	17	51.5	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – A22 – Provided by OVI *Feeding Method* – RB16 -Northern pintails are surface feeders. They generally feed in shallow waters of marshes, ponds, and wet meadows or grain fields. *Site Fidelity* – RB16 - maintains nests in arctic AK, very few use southern AK in winter months and may move around during this time *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – RB16 - Eat a variety of plants as well as a small amount of animal matter such as minnows, crawfish, fairly shrimp, tadpoles, leeches, worms, snails, insects, and larvae

Common_Name	Night_ Roosting	Avoidance _Attraction	Feeding_ Method	Site_ Fidelity	Flocking	Nesting_ Concen	Feeding_ Specia	Sum_of_ Bird_ Impact _Scores	Final_ Impact_ Score	Notes
Short-tailed Shearwater	5	4	1	1	5	0	1	17	51.5	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – A22 – Provided by OVI *Feeding Method* – RB7 - Pelagic piscivores. They most often plunge into the water and propel themselves through the water. They will also dive from the surface to track food. *Site Fidelity* – RB7 - do not have nests in AK; no site fidelity *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – RB7 - Piscivores, also take crabs and squid
Short-tailed Albatross	5	4	5	1	1	0	1	17	51.5	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – A22 – Provided by OVI *Feeding Method* – RB25 - Short-tailed albatross feed at the surface of marine waters. Food is generally seized from the surface, but the species is also known to scavenge fish waste from fishing vessels. *Site Fidelity* – RB25 - do not maintain nests in AK *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – RB25 - Their diet includes squid, shrimp, fish eggs, fish, and crustaceans.
Bald Eagle	0	5	5	3	0	1	1	15	45.5	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – RB95 - bald eagles attracted to oil spills as active scavengers of injured animals *Feeding Method* – RB13 - Bald eagle feed at the surface by taking their prey by skimming over water and taking fish from near the surface. Bald eagles are sometimes seen swimming, laboriously “rowing” with their wings. *Site Fidelity* – RB13 - maintains nests in AK, many winter in southern AK as well *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – RB13 - The bald eagle’s main diet is fish. Herring, flounder, pollock, and salmon are taken along the coast, while the Interior populations prey heavily upon salmon. Eagles also prey upon waterfowl, small mammals, sea urchins, clams, crabs, and carrion.
Western Sandpiper	1	1	5	2	1	1	3	14	42.4	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – RB94 - shorebird species have been shown to avoid oiled shorelines *Feeding Method* – A41 Feed in the intertidal *Site Fidelity* – A41 - maintains nests in AK *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – A41 - When the birds move to the coast they feed on freshwater insect larvae but also consume small clams, crustaceans, and other marine invertebrates

Common_Name	Night_ Roosting	Avoidance _Attraction	Feeding_ Method	Site_ Fidelity	Flocking	Nesting_ Concen	Feeding_ Specia	Sum_of_ Bird_ Impact _Scores	Final_ Impact_ Score	Notes
Dunlin	1	1	5	2	1	1	3	14	42.4	*Night Roosting* – A22 – Provided by OVI *Avoidance/Attraction* – RB94 - shorebird species have been shown to avoid oiled shorelines *Feeding Method* – A41 Feed in the intertidal *Site Fidelity* – A41 - maintains nests in AK *Flocking* – A22 – Provided by OVI *Nesting Concentration* – A22 – Provided by OVI *Feeding Specialization* – A41 - When the birds move to the coast they feed on freshwater insect larvae but also consume small clams, crustaceans, and other marine invertebrates

Table 40. Fish and invertebrate impact parameter scores. Table is sorted by greatest species final impact scores. For detailed descriptions of each impact parameter see Section 4.2.3. For reference codes see Table 53.

Common_Name	Egg_Location	Larval_Location	Juvenile/Adult_ Locati	Feeding_Method	Movements	Site_Fidelity	Feeding_ Specializatio	Aggregation	Sum_of_Fish_and_ Invert_Impact_ Scores	Final_Impact_Score	Notes
Euphausiids	3	2	2	5	5	1	5	5	28	73.7	*Egg Location* – RB64 - eggs are noted to be buoyant, but no direct neustonic observations found. Thus assumed to be epipelagic *Larval Location* – RB64 - larvae feed on phytoplankton in the epi-pelagic and neustonic zone, but undergo diel vertical migrations, and may be best described as pelagic. *Juvenile/Adult Location* – RB64 - adults feed on phytoplankton in the epi-pelagic and neustonic zone, but undergo diel vertical migrations, and may be best described as pelagic. *Feeding Method* – Filter feeding planktivore *Movements* – Euphausiids are relatively slow moving, though capable of vertical migration, but are assumed planktonic *Site Fidelity* – No site fidelity noted *Feeding Specialization* – RB65 - They feed on a variety of phyto- and microzooplankton, as well as suspended organic matter including "marine snow" *Aggregation* - Often found in large aggregations Euphausiids are relatively slow moving, though capable of vertical migration, but are too strong of swimmers to be assumed planktonic
Pacific Herring	5	5	2	5	1	1	3	5	27	71.1	*Egg Location* – A8 -Deposits eggs in substrate of estuaries *Larval Location* – A8 - larval fish remain in nearshore waters *Juvenile/Adult Location* – A8 - neritic species when breeding, but spends majority of time pelagic. *Feeding Method* – Filter feeding planktivore *Movements* – Fast moving with large home range *Site Fidelity* – No site fidelity noted *Feeding Specialization* – A8 - feeds on crustaceans and fish *Aggregation* - A8 - form very large schools

Common_Name	Egg_Location	Larval_Location	Juvenile/Adult_ Locati	Feeding_Method	Movements	Site_Fidelity	Feeding_ Specializatio	Aggregation	Sum_of_Fish_and_ Invert_Impact_ Scores	Final_Impact_Score	Notes
Weathervane scallop	1	2	1	5	3	3	5	5	25	65.8	*Egg Location* – DR44- Fertilized eggs settle to the bottom where they develop after a few days into a tiny transparent-shelled veliger larvae. *Larval Location* – DR44 - The veliger larvae swims into the water column where it feeds on microplankton (small free-floating plants) for a period of about three weeks before settling to the bottom to begin its life as a benthic (bottom-dwelling) filter feeder. *Juvenile/Adult Location* – Demersal *Feeding Method* – RB56 - Adults are filter feeding planktivores. *Movements* – RB56 - adults are capable of swimming, though do not travel extensive home ranges. *Site Fidelity* – DR44 - Adult scallops assemble in dense "beds"; these have a characteristic oblong shape, with the longer axis parallel with the direction of the prevailing current. *Feeding Specialization* – RB56 - Adults are filter feeding planktivores. *Aggregation* - RB56 - Due to site suitability, along with other biological reasons, weathervane scallops form large aggregations - thus leading to them being commercially fished. DR44 - Adult scallops assemble in dense "beds"; these have a characteristic oblong shape, with the longer axis parallel with the direction of the prevailing current.
Arctic Cod	5	5	5	1	1	1	3	3	24	63.2	*Egg Location* – A12 - eggs are neustonic *Larval Location* – A12 - larvae are neustonic *Juvenile/Adult Location* – A11 - found in coastal waters seasonally *Feeding Method* – Non-filter feeding piscivore *Movements* – Assumed relatively fast swimmers *Site Fidelity* – No site specific fidelity noted for this species *Feeding Specialization* – A11 - Feeds mostly on epibenthic mysids, also amphipods, copepods and fishes *Aggregation* - Forms extremely large schools, hundreds of thousands during breeding season
Atka Mackerel	1	5	2	3	1	2	3	3	20	52.6	*Egg Location* – DR22 - guard demersal eggs *Larval Location* – A2 - larvae are neustonic *Juvenile/Adult Location* – A2 - adults are demersal but pelagic outside of breeding season *Feeding Method* – A2 - non-filter feeding planktivore *Movements* – A2 - generally fast moving with large home range *Site Fidelity* – A2 - Site fidelity during breeding season *Feeding Specialization* – A2 - eat a variety of plankton, but all at same trophic level *Aggregation* - DR22 - forms small aggregations when spawning

Common_Name	Egg_Location	Larval_Location	Juvenile/Adult_ Locati	Feeding_Method	Movements	Site_Fidelity	Feeding_ Specializatio	Aggregation	Sum_of_Fish_and_ Invert_Impact_ Scores	Final_Impact_Score	Notes
Arctic Cisco	0	0	4	1	3	3	1	5	17	44.7	*Egg Location* – A54 - Arctic cisco spawn in Canada's Mackenzie River in September, but do not reproduce in Alaskan waters. *Larval Location* – RB55 - larvae are found in freshwater as they are hatched up to 1500km upstream and spend larval stage migrating down river *Juvenile/Adult Location* – A54 - mostly found in nearshore water, occasionally estuaries and brackish waters *Feeding Method* – Non-filter feeding piscivore *Movements* – RB55 - generally large home range and fast swimming *Site Fidelity* – RB55 - demonstrates site fidelity in that it only spawns in a single river (the whole population) *Feeding Specialization* – RB55- Feeds on small crustaceans, insects, small fishes, worms and clams. RB55 - very generalized diet *Aggregation* - RB55 - forms aggregations during spawning
Snow crab	1	5	1	4	1	1	1	3	17	44.7	*Egg Location* – DR42 - eggs are carried by adult female, whom are demersal = demersal eggs. *Larval Location* – A59 - larvae are free swimming and can be found to depths >60m. Although many are neustonic, different stages of larvae may be found deeper *Juvenile/Adult Location* – Demersal *Feeding Method* – DR42 - snow crabs are scavengers and feeding generalists. *Movements* – DR42 - Snow crabs likely have a large home range - Migration patterns are not well understood; however, it is known that the sexes are separated during much of the year and move into the same areas during the reproductive season. *Site Fidelity* – There is no mention of site fidelity in any reference found. *Feeding Specialization* – DR42 -Tanner crabs feed on a wide assortment of marine life including worms, clams, mussels, snails, crabs, other crustaceans, and fish parts. *Aggregation* - RB60 - Within the aggregation, crabs form mounds containing hundreds to thousands of animals. In 1991, over 200 mounds and 100,000 crabs were present in an area of about 2 ha.

Common_Name	Egg_Location	Larval_Location	Juvenile/Adult_ Locati	Feeding_Method	Movements	Site_Fidelity	Feeding_ Specializatio	Aggregation	Sum_of_Fish_and_ Invert_Impact_ Scores	Final_Impact_Score	Notes
Pink Salmon	0	4	2	3	1	2	1	3	16	42.1	*Egg Location* – RB51 - Pink salmon are anadromous- eggs in freshwater *Larval Location* – A52 - Upon hatching pink salmon fry immediately begin swimming to sea and take up residence in estuarine waters. Though some hatch up to 700 km inland and will thus spend time in freshwater, a majority will reach the sea prior to becoming juveniles. *Juvenile/Adult Location* – A53 - Adult pink salmon are pelagic. *Feeding Method* – Non-filter feeding planktivore *Movements* – RB51 - pink salmon have larger home ranges and migrate large distances in their 18 month lifespan *Site Fidelity* – RB51 - site fidelity in that they attempt to return to the river from whence they hatched *Feeding Specialization* – RB51 - In the ocean, pink salmon feed on plankton, other smaller fish, squid, and the occasional aquatic insect. RB51 - eats a wide variety of prey *Aggregation* - RB51 - large aggregations occur during spawning runs
Walleye Pollock	3	3	1	1	1	1	1	3	14	36.8	*Egg Location* – A3 - eggs planktonic in upper 30 m *Larval Location* – A3, A6 - larvae planktonic in upper 30 m *Juvenile/Adult Location* – A5 - benthopelagic *Feeding Method* – A3 - Non filter feeding planktivore *Movements* – Fast swimming, large range *Site Fidelity* – No site fidelity noted *Feeding Specialization* – A4 - feeds on fish, krill, crustaceans *Aggregation* - A3 - forms large spawning aggregations. In late winter/early spring pollock form huge spawning aggregations, including those found in Shelikof Strait and the eastern Bering Sea northwest of Unimak Island.

Common_Name	Egg_Location	Larval_Location	Juvenile/Adult_Locati	Feeding_Method	Movements	Site_Fidelity	Feeding_ Specializatio	Aggregation	Sum_of_Fish_and_ Invert_Impact_Scores	Final_Impact_Score	Notes
Squid	1	2	2	1	1	1	1	5	14	36.8	*Egg Location* – RB63 - literally nothing is known about the egg stage of the most common species of Alaskan squid. Eggs are assumed to be demersal as in Loligo species. *Larval Location* – DR31 - Of all the species in the squid complex, only Rossia pacifica has benthic larvae and only members of the family Gonatidae and Cranchiidae are known to spawn in the Bering Sea region. All other species are likely migrating to the area to feed and possibly mate. *Juvenile/Adult Location* – RB63 – Of the 15 species of squid in the Bering Sea/Aleutian Islands regions, 14 of them are pelagic *Feeding Method* – Non-filter feeding piscivore *Movements* – RB63 - large home range with extensive diel migrations occurring over large depths *Site Fidelity* – DR31- no site fidelity Many squid populations are composed of spatially segregated schools of similarly sized (and possibly related) individuals, which may migrate, forage, and spawn at different times of year over a wide geographic area *Feeding Specialization* – RB62 - consume euphausiids and fish species *Aggregation* - RB63 - forms very large breeding aggregations
Pacific Halibut	1	5	1	1	1	2	1	1	13	34.2	*Egg Location* – A15 - eggs are demersal *Larval Location* – A15 -larvae are planktonic and likely neustonic for a short period of time *Juvenile/Adult Location* – Demersal *Feeding Method* – Non-filter feeding piscivore *Movements* – A16 -Large seasonal migrations *Site Fidelity* – A16 - breeding season site fidelity *Feeding Specialization* – A13 - Feed on fishes, crabs, clams, squids, and other invertebrates *Aggregation* - No aggregations of any size noted
Arrowtooth Flounder	1	3	1	1	1	1	1	1	10	26.3	*Egg Location* – DR27 - demersal eggs *Larval Location* – DR27 - epipelagic larvae A19, larvae use surface current pathways to travel to estuaries *Juvenile/Adult Location* – Demersal *Feeding Method* – Non-filter feeding piscivore *Movements* – *Site Fidelity* – *Feeding Specialization* – A18 - feeds on crustaceans and fish *Aggregation* - No data on movement, site fidelity or aggregations, assumed same as other small flatfish

Table 41. Mammal and turtle impact parameter scores. Table is sorted by greatest species final impact scores. For detailed descriptions of each impact parameter see Section 4.2.3. For reference codes see Table 53.

Common_Name	Habitat_Use_in_AK	Site_Fidelity	Feeding_ Method	Avoidance _Attraction	Fur_Bearing	Aggregation	Feeding+ Specializa	Sum_Of_Mammal _and_Turtle_ Impact_Scores	Final_Impact_ Score	Notes
Northern Sea Otter	5	3	3	3	5	5	1	25	75.8	*Habitat Use* – RB82 - They can spend their whole lives in the water though they may occasionally haul out on land to rest. However, they are very clumsy on land and won't venture more than a few yards away from water. Spend most time rafting on water surface *Site Fidelity* – RB82 - territorial aggregations *Feeding Method* – Forages in benthic sediments *Avoidance/Attraction* – No data *Fur Bearing* – RB82 - has very thick coat of fur used for thermoregulation *Aggregation* – RB82 - Sea otters are very social animals. They sometimes travel in groups and may gather together to rest. Concentrations of over 1,000 animals have been seen floating together in a single area. *Feeding Specialization* – RB82 - Their main prey species include sea urchins, crabs, clams, mussels, octopus, fish, and other marine invertebrates.
Polar Bear	1	1	5	5	5	1	3	21	63.6	*Habitat Use* – DR20 - Though they utilize inland habitats, polar bears are heavily dependent on shoreline/ice edge habitat. But not dependent on shorelines, may take seal form pack ice *Site Fidelity* – No site fidelity is noted for polar bears when present in marine waters in references, a wide ranging species *Feeding Method* – DR20 - feeds on ringed seals at water surface *Avoidance/Attraction* – RB92, RB93 - Scientists have reported that polar bears will not avoid petroleum products encountered in the wild and may actively investigate oil spills (Amstrup 1989, Derocher and Stirling 1991). *Fur Bearing* – DR20 - though polar bears use blubber for much of their thermoregulation, they also have two heavy coats of fun that are additionally utilized for thermoregulation *Aggregation* –DR20 - In general, except for females with cubs, polar bears are solitary animals, however whale carcasses can attract large numbers of polar bears. *Feeding Specialization* – DR20 - moderately adaptable, primarily eat seals, but will eat other meat like walrus and whale, small mammals, bird eggs and vegetation

Common_Name	Habitat_Use_in_AK	Site_Fidelity	Feeding_ Method	Avoidance _Attraction	Fur_Bearing	Aggregation	Feeding+ Specializa	Sum_Of_Mammal _and_Turtle_ Impact_Scores	Final_Impact_ Score	Notes
Northern Fur Seal	4	2	1	3	5	3	1	19	57.6	*Habitat Use* – A33 - fur seals spend half their life at sea and half on the shoreline. *Site Fidelity* – A33 - extreme seasonal site fidelity, entire stock moves to 4-6 islands (Priboloffs) every summer *Feeding Method* – A33- pelagic piscivores- fish and squid *Avoidance/Attraction* – No data *Fur Bearing* – A33 -yes it uses fur for thermoregulation. The term fur seal comes from the thick waterproof underfur which numbers over 350,000 hairs per square inch (60,000 hairs/cm²). *Aggregation* – A33 - forms large aggregations during breeding season, minimal outside of that time period *Feeding Specialization* – A33- they are generalist consumers, Seals eat a wide variety of prey; over 60 species have been identified from the contents of their stomachs. Food types change as the seals migrate, principally determined by the changing abundance of prey. Near the Pribilof Islands they feed on pollock, herring, capelin, and squid.
Bowhead Whale	3	2	5	3	1	3	1	18	54.5	*Habitat Use* – DR10 - large baleen whale, feeds at all depths, from surface to bottom *Site Fidelity* – Site fidelity is difficult to score for bowheads. They do have site fidelity to ice edge and polynas, but this is a moving target. *Feeding Method* – DR10 - large baleen whale *Avoidance/Attraction* – No data *Fur Bearing* – DR10 - blubber used for insulation (not fur) *Aggregation* – RB69 - the species does occasionally form small aggregations *Feeding Specialization* – Eats zooplankton, inverts, and small fish
Pacific Walrus	4	1	3	3	1	3	3	18	54.5	*Habitat Use* – RB77 - lives in the Bering and Chukchi seas where they haul out on sea ice and along the mainland coast and islands of Russia and Alaska. RB78 - Virtually the entire population occupies the pack ice in the Bering Sea in the winter months *Site Fidelity* – RB78 - uses haulouts, but no strong site fidelity demonstrated *Feeding Method* – RB77- Walruses eat a wide variety of soft invertebrates found on or below the seafloor by using their sensitive whiskers to search for prey. *Avoidance/Attraction* – No data *Fur Bearing* – RB77 - use blubber for thermoregulation *Aggregation* – RB77 - forms haulout aggregations *Feeding Specialization* – RB77 - Prey items include, clams, snails, worms, sea cucumbers, and tunicates. RB77 - concentrates feeding on a wide variety of benthic organisms, but really only one habitat type of prey

Common_Name	Habitat_Use_in_AK	Site_Fidelity	Feeding_ Method	Avoidance _Attraction	Fur_Bearing	Aggregation	Feeding+ Specializa	Sum_Of_Mammal _and_Turtle_ Impact_Scores	Final_Impact_ Score	Notes
North Pacific Right Whale	3	1	5	3	1	1	3	17	51.5	*Habitat Use* – DR3 - a pelagic whale species *Site Fidelity* – No documented site fidelity. *Feeding Method* – DR3 - Baleen whale *Avoidance/Attraction* – No data *Fur Bearing* – DR3 - no *Aggregation* – DR3 - There are only tens of animals in the species, almost all sightings are of solitary individuals, therefore considered a mostly solitary species. *Feeding Specialization* – DR3 - consumes all plankton types, only one trophic level
Beluga Whale	3	2	1	3	1	5	1	16	48.5	*Habitat Use* – DR9 - A pelagic species that breathes at the surface and dive to 850m *Site Fidelity* – Some stocks have extremely small home ranges which manifests itself as site fidelity. Known to return to specific sites seasonally. *Feeding Method* – DR9 - Pelagic piscivore *Avoidance/Attraction* – No data *Fur Bearing* – No *Aggregation* – RB73 - These cetaceans are highly sociable and they regularly form small groups, or pods, that may contain between two and 25 individuals, with an average of 10 members. May make groups of hundreds *Feeding Specialization* – B71 - Pelagic piscivore: . Fish species make up a large part of their diet including herring, capelin, smelt, cod, salmon, flatfish, sculpin, lingcod, and eulachon. They will also feed on octopus, squid, shrimp, crab, clams, mussels, snails, and sandworms. DR9 - They are opportunistic feeders; their feeding habits depend on their locations and the season
Humpback Whale	3	1	5	3	1	1	1	15	45.5	*Habitat Use* – DR14 - pelagic baleen whale *Site Fidelity* – It is a wide ranging species with no site fidelity noted *Feeding Method* – DR14 - pelagic baleen whale *Avoidance/Attraction* – No data *Fur Bearing* – No fur *Aggregation* – DR14 - pelagic baleen whale Humpbacks are usually observed alone or in small groups that persist for only a few hours. *Feeding Specialization* – Baleen whale consumes plankton, but also small fish etc.

Common_Name	Habitat_Use_in_AK	Site_Fidelity	Feeding_ Method	Avoidance _Attraction	Fur_Bearing	Aggregation	Feeding+ Specializa	Sum_Of_Mammal _and_Turtle_ Impact_Scores	Final_Impact_ Score	Notes
Stellar Sea Lion	4	2	1	3	1	3	1	15	45.5	*Habitat Use* – RB39 - spend a significant amount of time on shoreline and diving for food. RB76 - They use land habitat as haul-out sites for periods of rest, molting, and as rookeries for mating and pupping during the breeding season. *Site Fidelity* –RB39 - Steller sea lion females exhibit high seasonal site fidelity, generally using the same rookeries to breed and birth their pups each year *Feeding Method* – Pelagic piscivore *Avoidance/Attraction* – No data *Fur Bearing* – RB76 - sea lions are Otariids and use blubber for thermoregulation *Aggregation* – RB76 - At sea, they are seen alone or in small groups, but may gather in large "rafts" at the surface near rookeries and haul outs. *Feeding Specialization* – RB39 - Steller sea lions are generalist marine predators with a diet of fishes and cephalopods that tends to be predictable by season and region, with the occasional meal of bird or true seal for variety.
Leatherback Turtle	3	1	1	5	1	1	3	15	45.5	*Habitat Use* – RB83 - a pelagic/open ocean species. Does utilize the surface as well, but mainly pelagic *Site Fidelity* – RB83 - highly transient while in AK *Feeding Method* – RB83 - pelagic piscivore - diet of soft-bodied pelagic (open ocean) prey, such as jellyfish and salps. *Avoidance/Attraction* – Do not avoid slicks, Milton et al. 2003. Do not avoid fumes *Fur Bearing* – A reptile - does not use fur for thermoregulation *Aggregation* – RB83 - highly transient while in AK. RB83 - solitary species both in AK and outside *Feeding Specialization* – RB83 - pelagic piscivore - diet of soft-bodied pelagic (open ocean) prey, such as jellyfish and salps. RB83 - moderately adaptable feeding methodology as does not concentrate on any single jelly species
Sperm Whale	3	1	1	3	1	3	1	13	39.4	*Habitat Use* – RB70 - a deep diving pelagic whale. *Site Fidelity* – No site fidelity is noted for this open ocean species while in AK waters *Feeding Method* – Pelagic piscivore *Avoidance/Attraction* – No data *Fur Bearing* – no *Aggregation* – RB70 - They are known to form small aggregations at different times in their life cycle, particularly females and juveniles *Feeding Specialization* – RB70 - A sizable portion of its diet is composed of squid, but it subsidizes with sharks, skates and fish (pelagic piscivore).

Common_Name	Habitat_Use_in_AK	Site_Fidelity	Feeding_ Method	Avoidance _Attraction	Fur_Bearing	Aggregation	Feeding+ Specializa	Sum_Of_Mammal _and_Turtle_ Impact_Scores	Final_Impact_ Score	Notes
Ringed Seal	1	2	1	3	1	1	1	10	30.3	*Habitat Use* – RB79 - highly associated with pack ice, construct ice dens on solid ice *Site Fidelity* – RB79 - No site fidelity is noted outside of use of ice pack/ice edge. Not known to return to specific breeding grounds *Feeding Method* – Pelagic piscivores *Avoidance/Attraction* – No data *Fur Bearing* – RB80 - Ringed seals are phocids and use blubber (not fur) for thermoregulation. *Aggregation* – RB79 -They are solitary animals and when hauled out on ice separate themselves from each other by hundreds of yards. *Feeding Specialization* – RB80 - Ringed seals are opportunistic and eat a variety of invertebrates, fish, and amphipods. The particular species eaten depends on availability, depth of water, and distance from shore. In Alaska waters, the important food species are arctic cod, saffron cod, shrimps, and other crustaceans.

1.4 Recovery Scores

Table 42. Species recovery parameter scores and rationales. Table is sorted by maximum recovery modifier scores. For detailed descriptions of each recovery parameter see section 4.2.2. for reference code see Table 53.

Common_Name	Conservation/ Popul	Reproductive_ Poter	Range	Total_Species_ Recovery_Score	Recovery_ Modifier_	Notes
North Pacific Right Whale	5	5	3	13	2.6	*Conservation/Population Status* – A28 - ESA endangered throughout its range *Reproductive Potential* – DR3 - Female right whales generally give birth to their first calf at 9-10 years of age. Pregnancy lasts approximately 1 year. *Range* – DR3 - The North Pacific right whale is distributed from Baja California to the Bering Sea with the highest concentrations in the Bering Sea, Gulf of Alaska, Okhotsk Sea, Kuril Islands, and Kamchatka area.
Bowhead Whale	5	5	3	13	2.6	*Conservation/Population Status* – A30 - ESA endangered throughout its range *Reproductive Potential* – DR10 - a calf may be born to a female every 2 to 3 years, age at maturity uncertain, but likely high *Range* – A30 -pan-arctic. Bowhead whales are circumpolar, ranging throughout high latitudes in the Northern Hemisphere. They spend the winter associated with the southern limit of the pack ice and move north as the sea ice breaks up and recedes during spring.
Beluga Whale	5	5	3	13	2.6	*Conservation/Population Status* – RB72 - ESA endangered in Cook Inlet *Reproductive Potential* – RB72 - calf every 3 years, mature at ages 8-10 *Range* – RB72 - pan-arctic - Beluga whales inhabit arctic and subarctic waters in the United States, Canada, Greenland, and Russia. They are found in open ocean, continental shelf, coastal, estuary, and river waters.
Stellar Sea Lion	5	5	3	13	2.6	*Conservation/Population Status* – RB76 - ESA Endangered Western DPS *Reproductive Potential* – RB39- mature from 3-7, one pup every 2 or 3 years *Range* – RB39 - Steller sea lions inhabit over 300 haulouts and rookeries along the North Pacific rim from Hokkaido, Japan, north along the Kuril Islands into Kamchatka and the Sea of Okhotsk, east along the Aleutian chain and into the central Bering Sea, through the Gulf of Alaska, south through southeastern Alaska, the Canadian Pacific coast and to the Channel Islands off California.
Northern Sea Otter	4	4	5	13	2.6	*Conservation/Population Status* – A38 - ESA Threatened *Reproductive Potential* – RB82 - mature at 2-5, 1 to 2 pups a year *Range* – RB82 - The northern sea otter subspecies (E. lutris kenyoni), is found in the Aleutian Islands, Southern Alaska. SE AK has other subspecies
Steller's Eider	4	4	5	13	2.6	*Conservation/Population Status* – RB85 - federally threatened *Reproductive Potential* – RB4 - mature at 2-3, 5-7 eggs per year *Range* – RB4 - In the winter, most of the world's Steller's eiders are found in the Alaska Peninsula and the Aleutian Islands. Others winter as far west as the Commander and Kuril Islands of Russia and as far east as Kodiak Island and Kachemak Bay in Cook Inlet, Alaska.

Common_Name	Conservation/ Popul	Reproductive_ Poten	Range	Total_Species_ Recovery_Score	Recovery_ Modifier_	Notes
Short-tailed Albatross	5	5	3	13	2.6	*Conservation/Population Status* – RB89 - endangered *Reproductive Potential* – RB26 - mature at 6-8 years, one chick a year *Range* – RB26 - range through north pacific
Pacific Walrus	3	5	4	12	2.4	*Conservation/Population Status* – A35 - The U.S. Fish and Wildlife Service has announced a 12-month finding on a petition to list the Pacific walrus as endangered or threatened and to designate critical habitat under the Endangered Species Act (ESA) of 1973, as amended. After review of the best scientific and commercial information available, the Service finds that listing the Pacific walrus as threatened or endangered is warranted. Currently, however, listing the Pacific walrus is precluded by higher priority actions to amend the Lists of Endangered and Threatened Wildlife and Plants. Upon publication of this 12-month petition finding, Pacific walrus will be added to the candidate species list. *Reproductive Potential* – RB77 - mature at 6-7, a pup every 2 years *Range* – RB77 - Pacific walruses range over the relatively shallow waters of the northern Bering and Chukchi seas, and are occasionally observed in the waters of the Eastern Siberian and Beaufort seas.
Ringed Seal	4	5	3	12	2.4	*Conservation/Population Status* – RB79 - ESA Threatened in Arctic *Reproductive Potential* – RB80 - mature at 6-8. one pup a year *Range* – RB79 - The ringed seal is found in the Northern Hemisphere with a circumpolar distribution ranging from 35°N to the North Pole. There is only one recognized stock of ringed seals in U.S. waters: the Alaska stock.
Polar Bear	4	5	3	12	2.4	*Conservation/Population Status* – A37 - ESA Threatened *Reproductive Potential* – DR20 -mature from 3-6, two pups every 2 years. IUCN states maturity at 5-6 years. *Range* – DR20 - Polar bears occur throughout the northern polar region. In the winter, polar bears in Alaska are found as far south as St. Lawrence Island and occasionally move down to St. Matthew Island and the Kuskokwim Delta. In the summer, bears are most abundant around the edge of the pack ice in the Chukchi Sea and Arctic Ocean. Denning areas include Wrangel Island and other Russian Islands, islands in the Canadian Arctic, Greenland, and Spitsbergen, and the northern Alaska coast.
Humpback Whale	5	5	1	11	2.2	*Conservation/Population Status* – A29 - ESA Endangered throughout its range *Reproductive Potential* – DR14 - mature at age five, one calf every 1-3 years *Range* – DR14 - found worldwide in tropical, temperate, and subpolar waters
Sperm Whale	5	5	1	11	2.2	*Conservation/Population Status* – A31 - ESA Endangered throughout its range *Reproductive Potential* – RB70 - mature ages 7-13, calf every 2-4 years *Range* – RB70 -Sperm whales range over the Northern and Southern Hemispheres in multiple basins, however, distribution tends to be patchy with high abundance in areas including Hawaii, Alaska, and the western coast of the U.S.
Northern Fur Seal	3	5	3	11	2.2	*Conservation/Population Status* – A33 - IUCN Vulnerable, MMPA Depleted *Reproductive Potential* – A33 - mature at 3-5, a few pups a year. Other sources range from maturity at 8-10, or 3-7. *Range* – A33 - found in northern pacific ocean

Common_Name	Conservation/ Popul	Reproductive_ Poten	Range	Total_Species_ Recovery_Score	Recovery_ Modifier_	Notes
Leatherback Turtle	5	5	1	11	2.2	*Conservation/Population Status* – RB83 - ESA Endangered throughout its range *Reproductive Potential* – DR5 - worldwide distribution *Range* – DR5, RB96 - mature at 13-14, 100 eggs per year
Marbled Murrelet	3	4	4	11	2.2	*Conservation/Population Status* – RB19 - NatureServe- Vulnerable/Imperiled. IUCN Endangered - 70% decrease in AK from 1980s-2006. Not listed in AK. *Reproductive Potential* – RB19, RB98 - 1 egg per season, matures at age 2 *Range* – RB19 - The species occurs from northern California, along the coasts of Oregon, Washington, British Columbia and Alaska. 85% of world's population is in AK.
Western Sandpiper	2	4	4	10	2	*Conservation/Population Status* – RB90 -population is high, but decreasing *Reproductive Potential* – A41, RB99 - four eggs per season, mature young *Range* – A41 - found in both hemispheres, but during summer most of population is found in AK and northern pacific
Short-tailed Shearwater	1	5	3	9	1.8	*Conservation/Population Status* – RB7 - Species is heavily harvested, but remains in high abundances, and is not considered to be at risk *Reproductive Potential* –RB7 - one chick per female a year. RB103 - Short-tailed Shearwaters breed first at 4-15 (mean 7.2) years of age and one must wait this long for ringed young to return to their natal area. *Range* –RB7 - species is trans equatorial and occurs worldwide. Seasonally is concentrated in northern pacific ocean
Black-legged Kittiwake	2	4	3	9	1.8	*Conservation/Population Status* – RB17 - The Pacific subspecies of the Black-legged Kittiwake has a breeding population of about 2.6 million individuals at colonies in the North Pacific and adjacent seas. In Alaska, more than 371 colony sites have been identified with a population of ~ 1,322,000 individuals. Most colonies appear some stable, though some are in decline. In Alaska considered to have a "moderate" conservation status due to significant decreases in some colonies. *Reproductive Potential* – RB17, RB97 - 1-3 chicks per year, mature young? *Range* – RB17 - when present in AK, Pacific subspecies population is concentrated in northern pacific ocean
Dunlin	2	4	3	9	1.8	*Conservation/Population Status* – RB21 - global population is in millions but declining. Listed by USFWS as a Bird of Conservation Concern. *Reproductive Potential* – A41, RB99 - ~4 eggs per season, likely mature young *Range* – RB21 - worldwide range, but seasonally concentrated in arctic/northern pacific
Pacific Herring	3	2	3	8	1.6	*Conservation/Population Status* – A8 - candidate species DPS in SE AK. Other populations range from low to healthy. *Reproductive Potential* – A8 moderately high fecundity, matures between 2-5 *Range* – RB100 - Northern hemisphere Pacific
Common Murre	1	5	2	8	1.6	*Conservation/Population Status* – RB29 - one of the most numerous birds in Alaska, population in millions, worldwide intense of millions. Alaskan conservation status is considered low. *Reproductive Potential* – A24 - one egg per season, matures at ages 4 to 6, lays egg on bare rock *Range* – RB29 - two separate stock in Pacific and Atlantic. Pacific stock goes down to California

Common_Name	Conservation/ Popul	Reproductive_ Poten	Range	Total_Species_ Recovery_Score	Recovery_ Modifier_	Notes
Bald Eagle	1	5	2	8	1.6	*Conservation/Population Status* – RB13 - IUCN Least Concern, increasing; NatureServe Rank "Secure" for state and global *Reproductive Potential* – RB13, 2 eggs per season, matures at age 4 *Range* – RB13 - found throughout north America
Pacific Halibut	1	3	3	7	1.4	*Conservation/Population Status* – A13 - Population levels may be reduced due to heavy fishing but is certified as sustainable *Reproductive Potential* – RB14 - High fecundity up to several million eggs per season, does not mature until age 12 *Range* – RB14, RB100 - Northern hemisphere Pacific
Arrowtooth Flounder	1	2	4	7	1.4	*Conservation/Population Status* – DR26 - Huge increase in biomass in 1990's. Biomass remains high. *Reproductive Potential* – A18 - matures between 5-7, high fecundity *Range* – A18, RB100 -found in NE Pacific
Northern Pintail	2	4	1	7	1.4	*Conservation/Population Status* – RB15 - population size well below historic levels, but an extensive range keeps it from becoming a vulnerable species *Reproductive Potential* – A21 - mature at age 1, 7-9 eggs per year *Range* – RB15, A21 -Found throughout North America, Europe, Asia
Harlequin Duck	1	4	2	7	1.4	*Conservation/Population Status* – RB24 -stock is increasing back to potentially healthy historic levels *Reproductive Potential* – A23 - 5 to 8 eggs per season, reproductive maturity at 2 years *Range* – A23 - worldwide distribution in northern hemisphere.
Red-necked Phalarope	1	4	2	7	1.4	*Conservation/Population Status* – RB10 - may be the most populous bird on the north slope in summer *Reproductive Potential* – RB10 - up to 4 eggs per year, live up to 10, likely mature young *Range* – RB10 - in summer, when present in AK, population distributed throughout North American arctic
Walleye Pollock	2	1	3	6	1.2	*Conservation/Population Status* – A3 - "The biomass of pollock in the eastern Bering Sea is currently at a medium level relative to recent (post-1978) levels and appears to be decreasing. Pollock biomass in the Gulf of Alaska is relatively low but increasing. Populations in neither area are considered neither overfished nor approaching overfished conditions. " *Reproductive Potential* – A5 - high fecundity, matures around ages 3-5 *Range* – RB100 - Northern hemisphere Pacific
Arctic Cisco	1	2	3	6	1.2	*Conservation/Population Status* – RB26 - We know very little about the abundance and production of Arctic cisco in Alaska, but past commercial and subsistence harvests (as much as 80,000 fish per year) appear to be sustainable. IUCN: Least concern *Reproductive Potential* – RB85 - Matures between 6 and 8 years old. Spawns 2-3 times during life. Up to 90,000 eggs per female per year *Range* – A54, RB100 - while in Alaskan waters, entire localized population of species is found along north slope. However, other populations occur along the Russian northern slope

Common_Name	Conservation/ Popul	Reproductive_ Poten	Range	Total_Species_ Recovery_Score	Recovery_ Modifier_	Notes
Squid	2	1	3	6	1.2	*Conservation/Population Status* – DR31, DR32 - Modern catch rates of squid in Alaska are far below historic levels *Reproductive Potential* – DR31, RB62 - Little is known about reproduction, but is assumed to be high based on other squid species *Range* – DR31, RB62 - In AK, the squid species found in the squid complex are generally restricted to the North Pacific
Weathervane scallop	1	1	4	6	1.2	*Conservation/Population Status* – DR44, DR29 - The 2012 Scallop Stock Assessment and Fishery Evaluation Report found that statewide scallop harvests have not exceeded the upper limit of optimum yield (well below MSY) *Reproductive Potential* – A4 - mature at 3-4. Millions of eggs/sperm *Range* – Weathervane scallops are distributed from California to the Bering Sea and as far west as the Aleutian Islands.
Atka Mackerel	1	1	3	5	1	*Conservation/Population Status* – DR22 - "The estimated biomass of Atka mackerel in the Aleutian Islands is at or near historic, post-1977 highs. Atka mackerel are not overfished nor nearing an overfished condition." *Reproductive Potential* – DR22 - matures age 3-4, no data on number of eggs, but egg guarders suggest not multiple batches, *Range* – A2 - Northern hemisphere Pacific
Arctic Cod	1	1	3	5	1	*Conservation/Population Status* – A10 - Population assumed to be near historic levels *Reproductive Potential* – A10 - matures between 2-5, moderate fecundity *Range* – A10, RB100 - species is circum-polar
Pink Salmon	1	1	3	5	1	*Conservation/Population Status* – RB51 - The global population of pink salmon are not currently in danger. However, local populations have decreased in some areas such as California and Washington. There are no pink salmon populations protected by the Endangered Species Act. Pink salmon populations in Alaska are well-managed and stable. *Reproductive Potential* – RB84 - mature at age 2, average fecundity = 1500-1800 eggs per female (absolute) *Range* – RB51, RB100 - range extends across most of arctic, down to British Columbia
Snow crab	1	2	2	5	1	*Conservation/Population Status* – A26 - Mature male biomass has increased since its low in 2002, and is currently estimated to be at a sustainable level and above target population level. *Reproductive Potential* – A26, DR42 - In Alaskan waters, female snow crabs can carry up to nearly 100,000 eggs, depending on their size. Matures at 5-6. *Range* – A26 - Snow crabs have a wide distribution. In Asia, they're found in the Japan Sea and the Sea of Okhotsk. In the Atlantic, they're found from Greenland south to Maine. In Alaska they live in the Bering, Beaufort, and Chukchi Seas.
Euphausiids	1	1	1	3	0.6	*Conservation/Population Status* – Population levels are estimated to be around historic levels *Reproductive Potential* – RB64 - mature early, hundred or so eggs per female *Range* – Global

2.0 HABITAT MODEL INPUTS

2.1 Shoreline Length

Table 43. ESI shoreline lengths by general ESI code and region. Shoreline lengths do not differ by season. All lengths are in km. ESI percentages add to 100 for each region. For detailed descriptions of each shoreline type see http://response.restoration.noaa.gov/maps-and-spatial-data/shoreline-rankings.html

Region	ESI Code	ESI Length	Region Length	ESI Percentage
Aleutians	1	2816	10786	26
Aleutians	2	2975	10786	28
Aleutians	3	406	10786	4
Aleutians	4	677	10786	6
Aleutians	5	1019	10786	9
Aleutians	6	1128	10786	10
Aleutians	7	585	10786	5
Aleutians	8	184	10786	2
Aleutians	9	660	10786	6
Aleutians	10	336	10786	3
Aniakchak	1	298	1829	16
Aniakchak	2	378	1829	21
Aniakchak	3	34	1829	2
Aniakchak	4	47	1829	3
Aniakchak	5	301	1829	16
Aniakchak	6	271	1829	15
Aniakchak	7	197	1829	11
Aniakchak	8	128	1829	7
Aniakchak	9	107	1829	6
Aniakchak	10	67	1829	4
Beaufort Sea	1	1	3958	0
Beaufort Sea	2	0	3958	0
Beaufort Sea	3	304	3958	8
Beaufort Sea	4	298	3958	8
Beaufort Sea	5	545	3958	14
Beaufort Sea	6	3	3958	0
Beaufort Sea	7	511	3958	13
Beaufort Sea	8	682	3958	17
Beaufort Sea	9	1060	3958	27
Beaufort Sea	10	554	3958	14
Bristol Bay	1	10	2399	0
Bristol Bay	2	135	2399	6
Bristol Bay	3	19	2399	1
Bristol Bay	4	123	2399	5
Bristol Bay	5	314	2399	13
Bristol Bay	6	40	2399	2
Bristol Bay	7	492	2399	20
Bristol Bay	8	296	2399	12
Bristol Bay	9	611	2399	25
Bristol Bay	10	360	2399	15

Region	ESI Code	ESI Length	Region Length	ESI Percentage
Chukchi Sea	1	67	2109	3
Chukchi Sea	2	0	2109	0
Chukchi Sea	3	969	2109	46
Chukchi Sea	4	0	2109	0
Chukchi Sea	5	491	2109	23
Chukchi Sea	6	10	2109	0
Chukchi Sea	7	0	2109	0
Chukchi Sea	8	50	2109	2
Chukchi Sea	9	429	2109	20
Chukchi Sea	10	94	2109	4
Cook Inlet	1	95	2979	3
Cook Inlet	2	312	2979	10
Cook Inlet	3	10	2979	0
Cook Inlet	4	43	2979	1
Cook Inlet	5	444	2979	15
Cook Inlet	6	57	2979	2
Cook Inlet	7	740	2979	25
Cook Inlet	8	230	2979	8
Cook Inlet	9	586	2979	20
Cook Inlet	10	461	2979	15
Kodiak/Shelikof Strait	1	627	6106	10
Kodiak/Shelikof Strait	2	1024	6106	17
Kodiak/Shelikof Strait	3	7	6106	0
Kodiak/Shelikof Strait	4	18	6106	0
Kodiak/Shelikof Strait	5	1560	6106	26
Kodiak/Shelikof Strait	6	649	6106	11
Kodiak/Shelikof Strait	7	295	6106	5
Kodiak/Shelikof Strait	8	1337	6106	22
Kodiak/Shelikof Strait	9	504	6106	8
Kodiak/Shelikof Strait	10	83	6106	1
Kotzebue Sound/Hope Basin	1	12	3688	0
Kotzebue Sound/Hope Basin	2	187	3688	5
Kotzebue Sound/Hope Basin	3	351	3688	10
Kotzebue Sound/Hope Basin	4	8	3688	0
Kotzebue Sound/Hope Basin	5	748	3688	20
Kotzebue Sound/Hope Basin	6	148	3688	4
Kotzebue Sound/Hope Basin	7	204	3688	6
Kotzebue Sound/Hope Basin	8	225	3688	6
Kotzebue Sound/Hope Basin	9	352	3688	10
Kotzebue Sound/Hope Basin	10	1452	3688	39
Norton Sound/St. Lawrence Is.	1	163	2803	6
Norton Sound/St. Lawrence Is.	2	90	2803	3
Norton Sound/St. Lawrence Is.	3	5	2803	0
Norton Sound/St. Lawrence Is.	4	111	2803	4
Norton Sound/St. Lawrence Is.	5	796	2803	28
Norton Sound/St. Lawrence Is.	6	258	2803	9
Norton Sound/St. Lawrence Is.	7	102	2803	4

Region	ESI Code	ESI Length	Region Length	ESI Percentage
Norton Sound/St. Lawrence Is.	8	42	2803	1
Norton Sound/St. Lawrence Is.	9	248	2803	9
Norton Sound/St. Lawrence Is.	10	987	2803	35
Offshore Kenai Peninsula	1	615	1498	41
Offshore Kenai Peninsula	2	16	1498	1
Offshore Kenai Peninsula	3	0	1498	0
Offshore Kenai Peninsula	4	9	1498	1
Offshore Kenai Peninsula	5	228	1498	15
Offshore Kenai Peninsula	6	48	1498	3
Offshore Kenai Peninsula	7	51	1498	3
Offshore Kenai Peninsula	8	505	1498	34
Offshore Kenai Peninsula	9	14	1498	1
Offshore Kenai Peninsula	10	13	1498	1
Prince William Sound	1	527	4813	11
Prince William Sound	2	653	4813	14
Prince William Sound	3	0	4813	0
Prince William Sound	4	0	4813	0
Prince William Sound	5	80	4813	2
Prince William Sound	6	1826	4813	38
Prince William Sound	7	542	4813	11
Prince William Sound	8	998	4813	21
Prince William Sound	9	119	4813	2
Prince William Sound	10	69	4813	1
South-Central Alaska	1	34	1682	2
South-Central Alaska	2	253	1682	15
South-Central Alaska	3	263	1682	16
South-Central Alaska	4	0	1682	0
South-Central Alaska	5	75	1682	4
South-Central Alaska	6	199	1682	12
South-Central Alaska	7	488	1682	29
South-Central Alaska	8	4	1682	0
South-Central Alaska	9	46	1682	3
South-Central Alaska	10	320	1682	19
Southeast Alaska	1	2627	28358	9
Southeast Alaska	2	3112	28358	11
Southeast Alaska	3	330	28358	1
Southeast Alaska	4	97	28358	0
Southeast Alaska	5	4057	28358	14
Southeast Alaska	6	5269	28358	19
Southeast Alaska	7	3335	28358	12
Southeast Alaska	8	5801	28358	20
Southeast Alaska	9	2071	28358	7
Southeast Alaska	10	1659	28358	6
Western Alaska	1	158	5156	3
Western Alaska	2	254	5156	5
Western Alaska	3	198	5156	4
Western Alaska	4	28	5156	1

Region	ESI Code	ESI Length	Region Length	ESI Percentage
Western Alaska	5	268	5156	5
Western Alaska	6	62	5156	1
Western Alaska	7	969	5156	19
Western Alaska	8	543	5156	11
Western Alaska	9	1377	5156	27
Western Alaska	10	1300	5156	25

Table 44. ESI shoreline lengths by specific ESI code and region. Shoreline lengths do not differ by season. All lengths are in km. ESI percentages add to 100 for each region. For detailed descriptions of each shoreline type see http://response.restoration.noaa.gov/maps-and-spatial-data/shoreline-rankings.html

Region	ESI Class	ESI Kilometers	Region Shoreline Length	ESI Percentage
Aleutians	1A	2815	10786	26
Aleutians	1B	0	10786	0
Aleutians	1C	0	10786	0
Aleutians	2A	2975	10786	28
Aleutians	2B	0	10786	0
Aleutians	3A	406	10786	4
Aleutians	3B	0	10786	0
Aleutians	3C	0	10786	0
Aleutians	4	677	10786	6
Aleutians	5	1019	10786	9
Aleutians	6AE	905	10786	8
Aleutians	6AS	220	10786	2
Aleutians	6B	3	10786	0
Aleutians	6C	0	10786	0
Aleutians	7	585	10786	5
Aleutians	8A	177	10786	2
Aleutians	8B	3	10786	0
Aleutians	8C	4	10786	0
Aleutians	8D	0	10786	0
Aleutians	8E	0	10786	0
Aleutians	9A	643	10786	6
Aleutians	9B	17	10786	0
Aleutians	10A	336	10786	3
Aleutians	10B	0	10786	0
Aleutians	10C	0	10786	0
Aleutians	10D	0	10786	0
Aleutians	10E	0	10786	0
Aniakchak	1A	298	1829	16
Aniakchak	1B	0	1829	0
Aniakchak	1C	0	1829	0
Aniakchak	2A	378	1829	21
Aniakchak	2B	0	1829	0
Aniakchak	3A	34	1829	2

Region	ESI Class	ESI Kilometers	Region Shoreline Length	ESI Percentage
Aniakchak	3B	0	1829	0
Aniakchak	3C	0	1829	0
Aniakchak	4	47	1829	3
Aniakchak	5	301	1829	16
Aniakchak	6AE	144	1829	8
Aniakchak	6AS	128	1829	7
Aniakchak	6B	0	1829	0
Aniakchak	6C	0	1829	0
Aniakchak	7	197	1829	11
Aniakchak	8A	128	1829	7
Aniakchak	8B	0	1829	0
Aniakchak	8C	0	1829	0
Aniakchak	8D	0	1829	0
Aniakchak	8E	0	1829	0
Aniakchak	9A	107	1829	6
Aniakchak	9B	0	1829	0
Aniakchak	10A	67	1829	4
Aniakchak	10B	0	1829	0
Aniakchak	10C	0	1829	0
Aniakchak	10D	0	1829	0
Aniakchak	10E	0	1829	0
Beaufort Sea	1A	0	3958	0
Beaufort Sea	1B	1	3958	0
Beaufort Sea	1C	0	3958	0
Beaufort Sea	2A	0	3958	0
Beaufort Sea	2B	0	3958	0
Beaufort Sea	3A	224	3958	6
Beaufort Sea	3B	0	3958	0
Beaufort Sea	3C	79	3958	2
Beaufort Sea	4	298	3958	8
Beaufort Sea	5	545	3958	14
Beaufort Sea	6AE	2	3958	0
Beaufort Sea	6AS	1	3958	0
Beaufort Sea	6B	0	3958	0
Beaufort Sea	6C	0	3958	0
Beaufort Sea	7	511	3958	13
Beaufort Sea	8A	0	3958	0
Beaufort Sea	8B	0	3958	0
Beaufort Sea	8C	0	3958	0
Beaufort Sea	8D	0	3958	0
Beaufort Sea	8E	682	3958	17
Beaufort Sea	9A	1029	3958	26
Beaufort Sea	9B	31	3958	1
Beaufort Sea	10A	11	3958	0
Beaufort Sea	10B	0	3958	0
Beaufort Sea	10C	0	3958	0
Beaufort Sea	10D	0	3958	0

Region	ESI Class	ESI Kilometers	Region Shoreline Length	ESI Percentage
Beaufort Sea	10E	544	3958	14
Bristol Bay	1A	10	2399	0
Bristol Bay	1B	0	2399	0
Bristol Bay	1C	0	2399	0
Bristol Bay	2A	135	2399	6
Bristol Bay	2B	0	2399	0
Bristol Bay	3A	19	2399	1
Bristol Bay	3B	0	2399	0
Bristol Bay	3C	0	2399	0
Bristol Bay	4	123	2399	5
Bristol Bay	5	314	2399	13
Bristol Bay	6AE	8	2399	0
Bristol Bay	6AS	33	2399	1
Bristol Bay	6B	0	2399	0
Bristol Bay	6C	0	2399	0
Bristol Bay	7	492	2399	20
Bristol Bay	8A	1	2399	0
Bristol Bay	8B	0	2399	0
Bristol Bay	8C	0	2399	0
Bristol Bay	8D	0	2399	0
Bristol Bay	8E	295	2399	12
Bristol Bay	9A	611	2399	25
Bristol Bay	9B	0	2399	0
Bristol Bay	10A	360	2399	15
Bristol Bay	10B	0	2399	0
Bristol Bay	10C	0	2399	0
Bristol Bay	10D	0	2399	0
Bristol Bay	10E	0	2399	0
Chukchi Sea	1A	67	2109	3
Chukchi Sea	1B	0	2109	0
Chukchi Sea	1C	0	2109	0
Chukchi Sea	2A	0	2109	0
Chukchi Sea	2B	0	2109	0
Chukchi Sea	3A	482	2109	23
Chukchi Sea	3B	0	2109	0
Chukchi Sea	3C	487	2109	23
Chukchi Sea	4	0	2109	0
Chukchi Sea	5	491	2109	23
Chukchi Sea	6AE	8	2109	0
Chukchi Sea	6AS	0	2109	0
Chukchi Sea	6B	2	2109	0
Chukchi Sea	6C	0	2109	0
Chukchi Sea	7	0	2109	0
Chukchi Sea	8A	2	2109	0
Chukchi Sea	8B	0	2109	0
Chukchi Sea	8C	0	2109	0
Chukchi Sea	8D	0	2109	0

Region	ESI Class	ESI Kilometers	Region Shoreline Length	ESI Percentage
Chukchi Sea	8E	48	2109	2
Chukchi Sea	9A	232	2109	11
Chukchi Sea	9B	197	2109	9
Chukchi Sea	10A	13	2109	1
Chukchi Sea	10B	0	2109	0
Chukchi Sea	10C	0	2109	0
Chukchi Sea	10D	0	2109	0
Chukchi Sea	10E	81	2109	4
Cook Inlet	1A	95	2979	3
Cook Inlet	1B	0	2979	0
Cook Inlet	1C	0	2979	0
Cook Inlet	2A	312	2979	10
Cook Inlet	2B	0	2979	0
Cook Inlet	3A	10	2979	0
Cook Inlet	3B	0	2979	0
Cook Inlet	3C	0	2979	0
Cook Inlet	4	43	2979	1
Cook Inlet	5	444	2979	15
Cook Inlet	6AE	45	2979	2
Cook Inlet	6AS	12	2979	0
Cook Inlet	6B	0	2979	0
Cook Inlet	6C	0	2979	0
Cook Inlet	7	740	2979	25
Cook Inlet	8A	230	2979	8
Cook Inlet	8B	0	2979	0
Cook Inlet	8C	0	2979	0
Cook Inlet	8D	0	2979	0
Cook Inlet	8E	0	2979	0
Cook Inlet	9A	586	2979	20
Cook Inlet	9B	0	2979	0
Cook Inlet	10A	461	2979	15
Cook Inlet	10B	0	2979	0
Cook Inlet	10C	0	2979	0
Cook Inlet	10D	0	2979	0
Cook Inlet	10E	0	2979	0
Kodiak/Shelikof Strait	1A	627	6106	10
Kodiak/Shelikof Strait	1B	1	6106	0
Kodiak/Shelikof Strait	1C	0	6106	0
Kodiak/Shelikof Strait	2A	1024	6106	17
Kodiak/Shelikof Strait	2B	0	6106	0
Kodiak/Shelikof Strait	3A	7	6106	0
Kodiak/Shelikof Strait	3B	0	6106	0
Kodiak/Shelikof Strait	3C	0	6106	0
Kodiak/Shelikof Strait	4	18	6106	0
Kodiak/Shelikof Strait	5	1560	6106	26
Kodiak/Shelikof Strait	6AE	218	6106	4
Kodiak/Shelikof Strait	6AS	431	6106	7

Region	ESI Class	ESI Kilometers	Region Shoreline Length	ESI Percentage
Kodiak/Shelikof Strait	6B	0	6106	0
Kodiak/Shelikof Strait	6C	0	6106	0
Kodiak/Shelikof Strait	7	295	6106	5
Kodiak/Shelikof Strait	8A	1337	6106	22
Kodiak/Shelikof Strait	8B	0	6106	0
Kodiak/Shelikof Strait	8C	0	6106	0
Kodiak/Shelikof Strait	8D	0	6106	0
Kodiak/Shelikof Strait	8E	0	6106	0
Kodiak/Shelikof Strait	9A	504	6106	8
Kodiak/Shelikof Strait	9B	0	6106	0
Kodiak/Shelikof Strait	10A	83	6106	1
Kodiak/Shelikof Strait	10B	0	6106	0
Kodiak/Shelikof Strait	10C	0	6106	0
Kodiak/Shelikof Strait	10D	0	6106	0
Kodiak/Shelikof Strait	10E	0	6106	0
Kotzebue Sound/Hope Basin	1A	11	3688	0
Kotzebue Sound/Hope Basin	1B	1	3688	0
Kotzebue Sound/Hope Basin	1C	0	3688	0
Kotzebue Sound/Hope Basin	2A	48	3688	1
Kotzebue Sound/Hope Basin	2B	139	3688	4
Kotzebue Sound/Hope Basin	3A	239	3688	6
Kotzebue Sound/Hope Basin	3B	7	3688	0
Kotzebue Sound/Hope Basin	3C	105	3688	3
Kotzebue Sound/Hope Basin	4	8	3688	0
Kotzebue Sound/Hope Basin	5	748	3688	20
Kotzebue Sound/Hope Basin	6AE	68	3688	2
Kotzebue Sound/Hope Basin	6AS	80	3688	2
Kotzebue Sound/Hope Basin	6B	0	3688	0
Kotzebue Sound/Hope Basin	6C	0	3688	0
Kotzebue Sound/Hope Basin	7	204	3688	6
Kotzebue Sound/Hope Basin	8A	224	3688	6
Kotzebue Sound/Hope Basin	8B	1	3688	0
Kotzebue Sound/Hope Basin	8C	0	3688	0
Kotzebue Sound/Hope Basin	8D	0	3688	0
Kotzebue Sound/Hope Basin	8E	0	3688	0
Kotzebue Sound/Hope Basin	9A	351	3688	10
Kotzebue Sound/Hope Basin	9B	1	3688	0
Kotzebue Sound/Hope Basin	10A	1231	3688	33
Kotzebue Sound/Hope Basin	10B	0	3688	0
Kotzebue Sound/Hope Basin	10C	0	3688	0
Kotzebue Sound/Hope Basin	10D	23	3688	1
Kotzebue Sound/Hope Basin	10E	198	3688	5
Norton Sound/St. Lawrence Is.	1A	163	2803	6
Norton Sound/St. Lawrence Is.	1B	0	2803	0
Norton Sound/St. Lawrence Is.	1C	0	2803	0
Norton Sound/St. Lawrence Is.	2A	90	2803	3
Norton Sound/St. Lawrence Is.	2B	0	2803	0

Region	ESI Class	ESI Kilometers	Region Shoreline Length	ESI Percentage
Norton Sound/St. Lawrence Is.	3A	5	2803	0
Norton Sound/St. Lawrence Is.	3B	0	2803	0
Norton Sound/St. Lawrence Is.	3C	0	2803	0
Norton Sound/St. Lawrence Is.	4	111	2803	4
Norton Sound/St. Lawrence Is.	5	796	2803	28
Norton Sound/St. Lawrence Is.	6AE	253	2803	9
Norton Sound/St. Lawrence Is.	6AS	5	2803	0
Norton Sound/St. Lawrence Is.	6B	0	2803	0
Norton Sound/St. Lawrence Is.	6C	0	2803	0
Norton Sound/St. Lawrence Is.	7	102	2803	4
Norton Sound/St. Lawrence Is.	8A	13	2803	0
Norton Sound/St. Lawrence Is.	8B	0	2803	0
Norton Sound/St. Lawrence Is.	8C	0	2803	0
Norton Sound/St. Lawrence Is.	8D	0	2803	0
Norton Sound/St. Lawrence Is.	8E	28	2803	1
Norton Sound/St. Lawrence Is.	9A	248	2803	9
Norton Sound/St. Lawrence Is.	9B	0	2803	0
Norton Sound/St. Lawrence Is.	10A	987	2803	35
Norton Sound/St. Lawrence Is.	10B	0	2803	0
Norton Sound/St. Lawrence Is.	10C	0	2803	0
Norton Sound/St. Lawrence Is.	10D	0	2803	0
Norton Sound/St. Lawrence Is.	10E	0	2803	0
Offshore Kenai Peninsula	1A	615	1498	41
Offshore Kenai Peninsula	1B	0	1498	0
Offshore Kenai Peninsula	1C	0	1498	0
Offshore Kenai Peninsula	2A	16	1498	1
Offshore Kenai Peninsula	2B	0	1498	0
Offshore Kenai Peninsula	3A	0	1498	0
Offshore Kenai Peninsula	3B	0	1498	0
Offshore Kenai Peninsula	3C	0	1498	0
Offshore Kenai Peninsula	4	9	1498	1
Offshore Kenai Peninsula	5	228	1498	15
Offshore Kenai Peninsula	6AE	36	1498	2
Offshore Kenai Peninsula	6AS	12	1498	1
Offshore Kenai Peninsula	6B	0	1498	0
Offshore Kenai Peninsula	6C	0	1498	0
Offshore Kenai Peninsula	7	51	1498	3
Offshore Kenai Peninsula	8A	505	1498	34
Offshore Kenai Peninsula	8B	0	1498	0
Offshore Kenai Peninsula	8C	0	1498	0
Offshore Kenai Peninsula	8D	0	1498	0
Offshore Kenai Peninsula	8E	0	1498	0
Offshore Kenai Peninsula	9A	14	1498	1
Offshore Kenai Peninsula	9B	0	1498	0
Offshore Kenai Peninsula	10A	13	1498	1
Offshore Kenai Peninsula	10B	0	1498	0
Offshore Kenai Peninsula	10C	0	1498	0

Region	ESI Class	ESI Kilometers	Region Shoreline Length	ESI Percentage
Offshore Kenai Peninsula	10D	0	1498	0
Offshore Kenai Peninsula	10E	0	1498	0
Prince William Sound	1A	525	4813	11
Prince William Sound	1B	2	4813	0
Prince William Sound	1C	0	4813	0
Prince William Sound	2A	653	4813	14
Prince William Sound	2B	0	4813	0
Prince William Sound	3A	0	4813	0
Prince William Sound	3B	0	4813	0
Prince William Sound	3C	0	4813	0
Prince William Sound	4	0	4813	0
Prince William Sound	5	80	4813	2
Prince William Sound	6AE	230	4813	5
Prince William Sound	6AS	1584	4813	33
Prince William Sound	6B	11	4813	0
Prince William Sound	6C	0	4813	0
Prince William Sound	7	542	4813	11
Prince William Sound	8A	841	4813	17
Prince William Sound	8B	1	4813	0
Prince William Sound	8C	0	4813	0
Prince William Sound	8D	156	4813	3
Prince William Sound	8E	0	4813	0
Prince William Sound	9A	119	4813	2
Prince William Sound	9B	0	4813	0
Prince William Sound	10A	69	4813	1
Prince William Sound	10B	0	4813	0
Prince William Sound	10C	0	4813	0
Prince William Sound	10D	0	4813	0
Prince William Sound	10E	0	4813	0
South-Central Alaska	1A	34	1682	2
South-Central Alaska	1B	0	1682	0
South-Central Alaska	1C	0	1682	0
South-Central Alaska	2A	253	1682	15
South-Central Alaska	2B	0	1682	0
South-Central Alaska	3A	263	1682	16
South-Central Alaska	3B	0	1682	0
South-Central Alaska	3C	0	1682	0
South-Central Alaska	4	0	1682	0
South-Central Alaska	5	75	1682	4
South-Central Alaska	6AE	97	1682	6
South-Central Alaska	6AS	102	1682	6
South-Central Alaska	6B	0	1682	0
South-Central Alaska	6C	0	1682	0
South-Central Alaska	7	488	1682	29
South-Central Alaska	8A	2	1682	0
South-Central Alaska	8B	0	1682	0
South-Central Alaska	8C	0	1682	0

Region	ESI Class	ESI Kilometers	Region Shoreline Length	ESI Percentage
South-Central Alaska	8D	2	1682	0
South-Central Alaska	8E	0	1682	0
South-Central Alaska	9A	46	1682	3
South-Central Alaska	9B	0	1682	0
South-Central Alaska	10A	320	1682	19
South-Central Alaska	10B	0	1682	0
South-Central Alaska	10C	0	1682	0
South-Central Alaska	10D	0	1682	0
South-Central Alaska	10E	0	1682	0
Southeast Alaska	1A	2578	28358	9
Southeast Alaska	1B	1	28358	0
Southeast Alaska	1C	48	28358	0
Southeast Alaska	2A	3112	28358	11
Southeast Alaska	2B	0	28358	0
Southeast Alaska	3A	330	28358	1
Southeast Alaska	3B	0	28358	0
Southeast Alaska	3C	0	28358	0
Southeast Alaska	4	97	28358	0
Southeast Alaska	5	4057	28358	14
Southeast Alaska	6AE	482	28358	2
Southeast Alaska	6AS	3171	28358	11
Southeast Alaska	6B	1587	28358	6
Southeast Alaska	6C	29	28358	0
Southeast Alaska	7	3335	28358	12
Southeast Alaska	8A	4110	28358	14
Southeast Alaska	8B	772	28358	3
Southeast Alaska	8C	25	28358	0
Southeast Alaska	8D	888	28358	3
Southeast Alaska	8E	5	28358	0
Southeast Alaska	9A	2029	28358	7
Southeast Alaska	9B	42	28358	0
Southeast Alaska	10A	1601	28358	6
Southeast Alaska	10B	58	28358	0
Southeast Alaska	10C	0	28358	0
Southeast Alaska	10D	0	28358	0
Southeast Alaska	10E	0	28358	0
Western Alaska	1A	158	5156	3
Western Alaska	1B	0	5156	0
Western Alaska	1C	0	5156	0
Western Alaska	2A	254	5156	5
Western Alaska	2B	0	5156	0
Western Alaska	3A	198	5156	4
Western Alaska	3B	0	5156	0
Western Alaska	3C	0	5156	0
Western Alaska	4	28	5156	1
Western Alaska	5	268	5156	5
Western Alaska	6AE	62	5156	1

Region	ESI Class	ESI Kilometers	Region Shoreline Length	ESI Percentage
Western Alaska	6AS	0	5156	0
Western Alaska	6B	0	5156	0
Western Alaska	6C	0	5156	0
Western Alaska	7	969	5156	19
Western Alaska	8A	82	5156	2
Western Alaska	8B	0	5156	0
Western Alaska	8C	0	5156	0
Western Alaska	8D	0	5156	0
Western Alaska	8E	461	5156	9
Western Alaska	9A	1377	5156	27
Western Alaska	9B	0	5156	0
Western Alaska	10A	1300	5156	25
Western Alaska	10B	0	5156	0
Western Alaska	10C	0	5156	0
Western Alaska	10D	0	5156	0
Western Alaska	10E	0	5156	0

Table 45. Model shoreline lengths by region. All shoreline lengths presented in km. For detailed descriptions of each shoreline type see Section 4.1.1 of the main report.

Region	Shoreline	Total Length (km)	Region Total Length (km)	Perc_of _Total_ Region
Aleutians	E1	3	10786	0
Aleutians	E10	336	10786	3
Aleutians	E11	0	10786	0
Aleutians	E2	0	10786	0
Aleutians	E3	220	10786	2
Aleutians	E4	585	10786	5
Aleutians	E5	0	10786	0
Aleutians	E6	17	10786	0
Aleutians	E7	0	10786	0
Aleutians	E8	0	10786	0
Aleutians	E9	643	10786	6
Aleutians	M1	6696	10786	62
Aleutians	M2	0	10786	0
Aleutians	M3	184	10786	2
Aleutians	M4	1019	10786	9
Aleutians	M5	0	10786	0
Aleutians	M6	1083	10786	10
Aleutians	M7	0	10786	0
Aleutians	M8	0	10786	0
Aleutians	T1	0	10786	0
Aniakchak	E1	0	1829	0
Aniakchak	E10	67	1829	4
Aniakchak	E11	0	1829	0

Region	Shoreline	Total Length (km)	Region Total Length (km)	Perc_of _Total_ Region
Aniakchak	E2	0	1829	0
Aniakchak	E3	128	1829	7
Aniakchak	E4	197	1829	11
Aniakchak	E5	0	1829	0
Aniakchak	E6	0	1829	0
Aniakchak	E7	0	1829	0
Aniakchak	E8	0	1829	0
Aniakchak	E9	107	1829	6
Aniakchak	M1	820	1829	45
Aniakchak	M2	0	1829	0
Aniakchak	M3	128	1829	7
Aniakchak	M4	301	1829	16
Aniakchak	M5	0	1829	0
Aniakchak	M6	81	1829	4
Aniakchak	M7	0	1829	0
Aniakchak	M8	0	1829	0
Aniakchak	T1	0	1829	0
Beaufort Sea	E1	0	3958	0
Beaufort Sea	E10	554	3958	14
Beaufort Sea	E11	0	3958	0
Beaufort Sea	E2	0	3958	0
Beaufort Sea	E3	1	3958	0
Beaufort Sea	E4	511	3958	13
Beaufort Sea	E5	0	3958	0
Beaufort Sea	E6	31	3958	1
Beaufort Sea	E7	0	3958	0
Beaufort Sea	E8	0	3958	0
Beaufort Sea	E9	1029	3958	26
Beaufort Sea	M1	3	3958	0
Beaufort Sea	M2	79	3958	2
Beaufort Sea	M3	0	3958	0
Beaufort Sea	M4	545	3958	14
Beaufort Sea	M5	0	3958	0
Beaufort Sea	M6	523	3958	13
Beaufort Sea	M7	0	3958	0
Beaufort Sea	M8	0	3958	0
Beaufort Sea	T1	682	3958	17
Bristol Bay	E1	0	2399	0
Bristol Bay	E10	360	2399	15
Bristol Bay	E11	0	2399	0
Bristol Bay	E2	0	2399	0
Bristol Bay	E3	33	2399	1
Bristol Bay	E4	492	2399	20
Bristol Bay	E5	0	2399	0
Bristol Bay	E6	0	2399	0
Bristol Bay	E7	0	2399	0

Region	Shoreline	Total Length (km)	Region Total Length (km)	Perc_of _Total_ Region
Bristol Bay	E8	0	2399	0
Bristol Bay	E9	611	2399	25
Bristol Bay	M1	152	2399	6
Bristol Bay	M2	0	2399	0
Bristol Bay	M3	1	2399	0
Bristol Bay	M4	314	2399	13
Bristol Bay	M5	0	2399	0
Bristol Bay	M6	142	2399	6
Bristol Bay	M7	0	2399	0
Bristol Bay	M8	0	2399	0
Bristol Bay	T1	295	2399	12
Chukchi Sea	E1	2	2109	0
Chukchi Sea	E10	94	2109	4
Chukchi Sea	E11	0	2109	0
Chukchi Sea	E2	0	2109	0
Chukchi Sea	E3	0	2109	0
Chukchi Sea	E4	0	2109	0
Chukchi Sea	E5	0	2109	0
Chukchi Sea	E6	197	2109	9
Chukchi Sea	E7	0	2109	0
Chukchi Sea	E8	0	2109	0
Chukchi Sea	E9	232	2109	11
Chukchi Sea	M1	74	2109	4
Chukchi Sea	M2	487	2109	23
Chukchi Sea	M3	2	2109	0
Chukchi Sea	M4	491	2109	23
Chukchi Sea	M5	0	2109	0
Chukchi Sea	M6	482	2109	23
Chukchi Sea	M7	0	2109	0
Chukchi Sea	M8	0	2109	0
Chukchi Sea	T1	48	2109	2
Cook Inlet	E1	0	2979	0
Cook Inlet	E10	461	2979	15
Cook Inlet	E11	0	2979	0
Cook Inlet	E2	0	2979	0
Cook Inlet	E3	12	2979	0
Cook Inlet	E4	740	2979	25
Cook Inlet	E5	0	2979	0
Cook Inlet	E6	0	2979	0
Cook Inlet	E7	0	2979	0
Cook Inlet	E8	0	2979	0
Cook Inlet	E9	586	2979	20
Cook Inlet	M1	451	2979	15
Cook Inlet	M2	0	2979	0
Cook Inlet	M3	230	2979	8
Cook Inlet	M4	444	2979	15

Region	Shoreline	Total Length (km)	Region Total Length (km)	Perc_of _Total_ Region
Cook Inlet	M5	0	2979	0
Cook Inlet	M6	54	2979	2
Cook Inlet	M7	0	2979	0
Cook Inlet	M8	0	2979	0
Cook Inlet	T1	0	2979	0
Kodiak/Shelikof Strait	E1	0	6106	0
Kodiak/Shelikof Strait	E10	83	6106	1
Kodiak/Shelikof Strait	E11	0	6106	0
Kodiak/Shelikof Strait	E2	0	6106	0
Kodiak/Shelikof Strait	E3	431	6106	7
Kodiak/Shelikof Strait	E4	295	6106	5
Kodiak/Shelikof Strait	E5	0	6106	0
Kodiak/Shelikof Strait	E6	0	6106	0
Kodiak/Shelikof Strait	E7	0	6106	0
Kodiak/Shelikof Strait	E8	0	6106	0
Kodiak/Shelikof Strait	E9	504	6106	8
Kodiak/Shelikof Strait	M1	1870	6106	31
Kodiak/Shelikof Strait	M2	0	6106	0
Kodiak/Shelikof Strait	M3	1337	6106	22
Kodiak/Shelikof Strait	M4	1560	6106	26
Kodiak/Shelikof Strait	M5	0	6106	0
Kodiak/Shelikof Strait	M6	25	6106	0
Kodiak/Shelikof Strait	M7	0	6106	0
Kodiak/Shelikof Strait	M8	0	6106	0
Kodiak/Shelikof Strait	T1	0	6106	0
Kotzebue Sound/Hope Basin	E1	0	3688	0
Kotzebue Sound/Hope Basin	E10	1429	3688	39
Kotzebue Sound/Hope Basin	E11	23	3688	1
Kotzebue Sound/Hope Basin	E2	0	3688	0
Kotzebue Sound/Hope Basin	E3	80	3688	2
Kotzebue Sound/Hope Basin	E4	204	3688	6
Kotzebue Sound/Hope Basin	E5	0	3688	0
Kotzebue Sound/Hope Basin	E6	1	3688	0
Kotzebue Sound/Hope Basin	E7	0	3688	0
Kotzebue Sound/Hope Basin	E8	0	3688	0
Kotzebue Sound/Hope Basin	E9	351	3688	10
Kotzebue Sound/Hope Basin	M1	128	3688	3
Kotzebue Sound/Hope Basin	M2	105	3688	3
Kotzebue Sound/Hope Basin	M3	225	3688	6
Kotzebue Sound/Hope Basin	M4	748	3688	20
Kotzebue Sound/Hope Basin	M5	0	3688	0
Kotzebue Sound/Hope Basin	M6	394	3688	11
Kotzebue Sound/Hope Basin	M7	0	3688	0
Kotzebue Sound/Hope Basin	M8	0	3688	0
Kotzebue Sound/Hope Basin	T1	0	3688	0
Norton Sound/St. Lawrence Is.	E1	0	2803	0

Region	Shoreline	Total Length (km)	Region Total Length (km)	Perc_of _Total_ Region
Norton Sound/St. Lawrence Is.	E10	987	2803	35
Norton Sound/St. Lawrence Is.	E11	0	2803	0
Norton Sound/St. Lawrence Is.	E2	0	2803	0
Norton Sound/St. Lawrence Is.	E3	5	2803	0
Norton Sound/St. Lawrence Is.	E4	102	2803	4
Norton Sound/St. Lawrence Is.	E5	0	2803	0
Norton Sound/St. Lawrence Is.	E6	0	2803	0
Norton Sound/St. Lawrence Is.	E7	0	2803	0
Norton Sound/St. Lawrence Is.	E8	0	2803	0
Norton Sound/St. Lawrence Is.	E9	248	2803	9
Norton Sound/St. Lawrence Is.	M1	506	2803	18
Norton Sound/St. Lawrence Is.	M2	0	2803	0
Norton Sound/St. Lawrence Is.	M3	13	2803	0
Norton Sound/St. Lawrence Is.	M4	796	2803	28
Norton Sound/St. Lawrence Is.	M5	0	2803	0
Norton Sound/St. Lawrence Is.	M6	116	2803	4
Norton Sound/St. Lawrence Is.	M7	0	2803	0
Norton Sound/St. Lawrence Is.	M8	0	2803	0
Norton Sound/St. Lawrence Is.	T1	28	2803	1
Offshore Kenai Peninsula	E1	0	1498	0
Offshore Kenai Peninsula	E10	13	1498	1
Offshore Kenai Peninsula	E11	0	1498	0
Offshore Kenai Peninsula	E2	0	1498	0
Offshore Kenai Peninsula	E3	12	1498	1
Offshore Kenai Peninsula	E4	51	1498	3
Offshore Kenai Peninsula	E5	0	1498	0
Offshore Kenai Peninsula	E6	0	1498	0
Offshore Kenai Peninsula	E7	0	1498	0
Offshore Kenai Peninsula	E8	0	1498	0
Offshore Kenai Peninsula	E9	14	1498	1
Offshore Kenai Peninsula	M1	666	1498	44
Offshore Kenai Peninsula	M2	0	1498	0
Offshore Kenai Peninsula	M3	505	1498	34
Offshore Kenai Peninsula	M4	228	1498	15
Offshore Kenai Peninsula	M5	0	1498	0
Offshore Kenai Peninsula	M6	9	1498	1
Offshore Kenai Peninsula	M7	0	1498	0
Offshore Kenai Peninsula	M8	0	1498	0
Offshore Kenai Peninsula	T1	0	1498	0
Prince William Sound	E1	11	4813	0
Prince William Sound	E10	69	4813	1
Prince William Sound	E11	0	4813	0
Prince William Sound	E2	0	4813	0
Prince William Sound	E3	1584	4813	33
Prince William Sound	E4	542	4813	11
Prince William Sound	E5	0	4813	0

Region	Shoreline	Total Length (km)	Region Total Length (km)	Perc_of _Total_ Region
Prince William Sound	E6	0	4813	0
Prince William Sound	E7	0	4813	0
Prince William Sound	E8	0	4813	0
Prince William Sound	E9	119	4813	2
Prince William Sound	M1	1409	4813	29
Prince William Sound	M2	0	4813	0
Prince William Sound	M3	998	4813	21
Prince William Sound	M4	80	4813	2
Prince William Sound	M5	0	4813	0
Prince William Sound	M6	0	4813	0
Prince William Sound	M7	0	4813	0
Prince William Sound	M8	0	4813	0
Prince William Sound	T1	0	4813	0
South-Central Alaska	E1	0	1682	0
South-Central Alaska	E10	320	1682	19
South-Central Alaska	E11	0	1682	0
South-Central Alaska	E2	0	1682	0
South-Central Alaska	E3	102	1682	6
South-Central Alaska	E4	488	1682	29
South-Central Alaska	E5	0	1682	0
South-Central Alaska	E6	0	1682	0
South-Central Alaska	E7	0	1682	0
South-Central Alaska	E8	0	1682	0
South-Central Alaska	E9	46	1682	3
South-Central Alaska	M1	384	1682	23
South-Central Alaska	M2	0	1682	0
South-Central Alaska	M3	4	1682	0
South-Central Alaska	M4	75	1682	4
South-Central Alaska	M5	0	1682	0
South-Central Alaska	M6	263	1682	16
South-Central Alaska	M7	0	1682	0
South-Central Alaska	M8	0	1682	0
South-Central Alaska	T1	0	1682	0
Southeast Alaska	E1	3171	28358	11
Southeast Alaska	E10	0	28358	0
Southeast Alaska	E11	1659	28358	6
Southeast Alaska	E2	0	28358	0
Southeast Alaska	E3	0	28358	0
Southeast Alaska	E4	1616	28358	6
Southeast Alaska	E5	0	28358	0
Southeast Alaska	E6	2029	28358	7
Southeast Alaska	E7	42	28358	0
Southeast Alaska	E8	0	28358	0
Southeast Alaska	E9	5796	28358	20
Southeast Alaska	M1	6221	28358	22
Southeast Alaska	M2	0	28358	0

Region	Shoreline	Total Length (km)	Region Total Length (km)	Perc_of _Total_ Region
Southeast Alaska	M3	3335	28358	12
Southeast Alaska	M4	4057	28358	14
Southeast Alaska	M5	0	28358	0
Southeast Alaska	M6	428	28358	2
Southeast Alaska	M7	0	28358	0
Southeast Alaska	M8	0	28358	0
Southeast Alaska	T1	5	28358	0
Western Alaska	E1	0	5156	0
Western Alaska	E10	1300	5156	25
Western Alaska	E11	0	5156	0
Western Alaska	E2	0	5156	0
Western Alaska	E3	0	5156	0
Western Alaska	E4	969	5156	19
Western Alaska	E5	0	5156	0
Western Alaska	E6	0	5156	0
Western Alaska	E7	0	5156	0
Western Alaska	E8	0	5156	0
Western Alaska	E9	1377	5156	27
Western Alaska	M1	474	5156	9
Western Alaska	M2	0	5156	0
Western Alaska	M3	82	5156	2
Western Alaska	M4	268	5156	5
Western Alaska	M5	0	5156	0
Western Alaska	M6	226	5156	4
Western Alaska	M7	0	5156	0
Western Alaska	M8	0	5156	0
Western Alaska	T1	461	5156	9

2.2 Bottom Habitat Area

Table 46. Bottom habitat areas by region. All areas presented in km^2. For detailed descriptions of each marine substrate type see section 4.1.1 of the main report.

AK_Region_Name	Marine_ Substrate_Type	Marine_ Substrate_ Area	AK_Region_ Marine _Area	Marine_ Substrate_ %
Aleutians	BH1	2565	1642577	0.2
Aleutians	BH2	8271	1642577	0.5
Aleutians	BH3	2493	1642577	0.2
Aleutians	BH4	277962	1642577	16.9
Aleutians	BH5	16007	1642577	1.0
Aleutians	BH6	1334579	1642577	81.2
Aleutians	SAV1	338	1642577	0.0
Aleutians	SAV2	362	1642577	0.0
Aniakchak	BH1	0	101206	0.0
Aniakchak	BH2	124	101206	0.1

AK_Region_Name	Marine_ Substrate_Type	Marine_ Substrate_ Area	AK_Region_ Marine _Area	Marine_ Substrate_ %
Aniakchak	BH3	0	101206	0.0
Aniakchak	BH4	0	101206	0.0
Aniakchak	BH5	3127	101206	3.1
Aniakchak	BH6	97760	101206	96.6
Aniakchak	SAV1	143	101206	0.1
Aniakchak	SAV2	52	101206	0.1
Beaufort Sea	BH1	7	222640	0.0
Beaufort Sea	BH2	11247	222640	5.1
Beaufort Sea	BH3	0	222640	0.0
Beaufort Sea	BH4	60990	222640	27.4
Beaufort Sea	BH5	3576	222640	1.6
Beaufort Sea	BH6	146703	222640	65.9
Beaufort Sea	SAV1	117	222640	0.1
Beaufort Sea	SAV2	0	222640	0.0
Bristol Bay	BH1	0	38327	0.0
Bristol Bay	BH2	14579	38327	38.0
Bristol Bay	BH3	0	38327	0.0
Bristol Bay	BH4	22958	38327	59.9
Bristol Bay	BH5	685	38327	1.8
Bristol Bay	BH6	0	38327	0.0
Bristol Bay	SAV1	34	38327	0.1
Bristol Bay	SAV2	70	38327	0.2
Chukchi Sea	BH1	114	212184	0.1
Chukchi Sea	BH2	7430	212184	3.5
Chukchi Sea	BH3	0	212184	0.0
Chukchi Sea	BH4	137604	212184	64.9
Chukchi Sea	BH5	2571	212184	1.2
Chukchi Sea	BH6	64464	212184	30.4
Chukchi Sea	SAV1	0	212184	0.0
Chukchi Sea	SAV2	0	212184	0.0
Cook Inlet	BH1	0	19913	0.0
Cook Inlet	BH2	2246	19913	11.3
Cook Inlet	BH3	0	19913	0.0
Cook Inlet	BH4	5784	19913	29.0
Cook Inlet	BH5	10240	19913	51.4
Cook Inlet	BH6	867	19913	4.4
Cook Inlet	SAV1	606	19913	3.0
Cook Inlet	SAV2	169	19913	0.8
Kodiak/Shelikof Strait	BH1	1	173544	0.0
Kodiak/Shelikof Strait	BH2	205	173544	0.1
Kodiak/Shelikof Strait	BH3	5199	173544	3.0
Kodiak/Shelikof Strait	BH4	28810	173544	16.6
Kodiak/Shelikof Strait	BH5	6582	173544	3.8
Kodiak/Shelikof Strait	BH6	128511	173544	74.1
Kodiak/Shelikof Strait	SAV1	2959	173544	1.7
Kodiak/Shelikof Strait	SAV2	1278	173544	0.7
Kotzebue Sound/Hope Basin	BH1	0	58142	0.0

AK_Region_Name	Marine_ Substrate_Type	Marine_ Substrate_ Area	AK_Region_ Marine _Area	Marine_ Substrate_ %
Kotzebue Sound/Hope Basin	BH2	17836	58142	30.7
Kotzebue Sound/Hope Basin	BH3	0	58142	0.0
Kotzebue Sound/Hope Basin	BH4	38656	58142	66.5
Kotzebue Sound/Hope Basin	BH5	1650	58142	2.8
Kotzebue Sound/Hope Basin	BH6	0	58142	0.0
Kotzebue Sound/Hope Basin	SAV1	0	58142	0.0
Kotzebue Sound/Hope Basin	SAV2	0	58142	0.0
Norton Sound/St. Lawrence Is.	BH1	0	108297	0.0
Norton Sound/St. Lawrence Is.	BH2	29672	108297	27.4
Norton Sound/St. Lawrence Is.	BH3	0	108297	0.0
Norton Sound/St. Lawrence Is.	BH4	75042	108297	69.3
Norton Sound/St. Lawrence Is.	BH5	3582	108297	3.3
Norton Sound/St. Lawrence Is.	BH6	0	108297	0.0
Norton Sound/St. Lawrence Is.	SAV1	0	108297	0.0
Norton Sound/St. Lawrence Is.	SAV2	0	108297	0.0
Offshore Kenai Peninsula	BH1	0	60679	0.0
Offshore Kenai Peninsula	BH2	0	60679	0.0
Offshore Kenai Peninsula	BH3	2176	60679	3.6
Offshore Kenai Peninsula	BH4	14950	60679	24.6
Offshore Kenai Peninsula	BH5	410	60679	0.7
Offshore Kenai Peninsula	BH6	41935	60679	69.1
Offshore Kenai Peninsula	SAV1	1124	60679	1.9
Offshore Kenai Peninsula	SAV2	84	60679	0.1
Prince William Sound	BH1	2	7928	0.0
Prince William Sound	BH2	42	7928	0.5
Prince William Sound	BH3	0	7928	0.0
Prince William Sound	BH4	153	7928	1.9
Prince William Sound	BH5	253	7928	3.2
Prince William Sound	BH6	4098	7928	51.7
Prince William Sound	SAV1	1820	7928	23.0
Prince William Sound	SAV2	1561	7928	19.7
South-Central Alaska	BH1	109	133740	0.1
South-Central Alaska	BH2	1101	133740	0.8
South-Central Alaska	BH3	682	133740	0.5
South-Central Alaska	BH4	23198	133740	17.3
South-Central Alaska	BH5	1774	133740	1.3
South-Central Alaska	BH6	106407	133740	79.6
South-Central Alaska	SAV1	281	133740	0.2
South-Central Alaska	SAV2	188	133740	0.1
Southeast Alaska	BH1	0	288133	0.0
Southeast Alaska	BH2	148	288133	0.1
Southeast Alaska	BH3	642	288133	0.2
Southeast Alaska	BH4	23449	288133	8.1
Southeast Alaska	BH5	6865	288133	2.4
Southeast Alaska	BH6	239845	288133	83.2
Southeast Alaska	SAV1	12122	288133	4.2
Southeast Alaska	SAV2	5062	288133	1.8

AK_Region_Name	Marine_ Substrate_Type	Marine_ Substrate_ Area	AK_Region_ Marine _Area	Marine_ Substrate_ %
Western Alaska	BH1	0	484106	0.0
Western Alaska	BH2	39633	484106	8.2
Western Alaska	BH3	0	484106	0.0
Western Alaska	BH4	342087	484106	70.7
Western Alaska	BH5	18074	484106	3.7
Western Alaska	BH6	84290	484106	17.4
Western Alaska	SAV1	0	484106	0.0
Western Alaska	SAV2	22	484106	0.0

2.3 Ice Habitat Area

Table 47. Ice habitat percentage by region and season. Areas presented in km^2. For detailed descriptions of each ice habitat type see section 4.1.1 of the main report.

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Aleutians	1	IH1	562132	1642577	35
Aleutians	1	IH2	0	1642577	0
Aleutians	1	IH3	0	1642577	0
Aleutians	1	IH4	0	1642577	0
Aleutians	1	IH5	0	1642577	0
Aleutians	1	IH6	0	1642577	0
Aleutians	1	IH7	0	1642577	0
Aleutians	1	IH8	0	1642577	0
Aleutians	2	IH1	537317	1642577	35
Aleutians	2	IH2	20032	1642577	0
Aleutians	2	IH3	0	1642577	0
Aleutians	2	IH4	0	1642577	0
Aleutians	2	IH5	0	1642577	0
Aleutians	2	IH6	0	1642577	0
Aleutians	2	IH7	0	1642577	0
Aleutians	2	IH8	0	1642577	0
Aleutians	3	IH1	429009	1642577	25
Aleutians	3	IH2	0	1642577	0
Aleutians	3	IH3	0	1642577	0
Aleutians	3	IH4	0	1642577	0
Aleutians	3	IH5	0	1642577	0
Aleutians	3	IH6	0	1642577	0
Aleutians	3	IH7	0	1642577	0
Aleutians	3	IH8	0	1642577	0
Aleutians	4	IH1	74377	1642577	5
Aleutians	4	IH2	0	1642577	0
Aleutians	4	IH3	0	1642577	0
Aleutians	4	IH4	0	1642577	0
Aleutians	4	IH5	0	1642577	0
Aleutians	4	IH6	0	1642577	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Aleutians	4	IH7	0	1642577	0
Aleutians	4	IH8	0	1642577	0
Aleutians	5	IH1	0	1642577	0
Aleutians	5	IH2	0	1642577	0
Aleutians	5	IH3	0	1642577	0
Aleutians	5	IH4	0	1642577	0
Aleutians	5	IH5	0	1642577	0
Aleutians	5	IH6	0	1642577	0
Aleutians	5	IH7	0	1642577	0
Aleutians	5	IH8	0	1642577	0
Aleutians	6	IH1	399295	1642577	25
Aleutians	6	IH2	0	1642577	0
Aleutians	6	IH3	0	1642577	0
Aleutians	6	IH4	0	1642577	0
Aleutians	6	IH5	0	1642577	0
Aleutians	6	IH6	0	1642577	0
Aleutians	6	IH7	0	1642577	0
Aleutians	6	IH8	0	1642577	0
Aniakchak	1	IH1	0	101206	0
Aniakchak	1	IH2	0	101206	0
Aniakchak	1	IH3	0	101206	0
Aniakchak	1	IH4	0	101206	0
Aniakchak	1	IH5	32291	101206	30
Aniakchak	1	IH6	0	101206	0
Aniakchak	1	IH7	0	101206	0
Aniakchak	1	IH8	0	101206	0
Aniakchak	2	IH1	0	101206	0
Aniakchak	2	IH2	0	101206	0
Aniakchak	2	IH3	0	101206	0
Aniakchak	2	IH4	0	101206	0
Aniakchak	2	IH5	37202	101206	35
Aniakchak	2	IH6	0	101206	0
Aniakchak	2	IH7	0	101206	0
Aniakchak	2	IH8	0	101206	0
Aniakchak	3	IH1	0	101206	0
Aniakchak	3	IH2	0	101206	0
Aniakchak	3	IH3	0	101206	0
Aniakchak	3	IH4	0	101206	0
Aniakchak	3	IH5	27383	101206	25
Aniakchak	3	IH6	0	101206	0
Aniakchak	3	IH7	0	101206	0
Aniakchak	3	IH8	0	101206	0
Aniakchak	4	IH1	0	101206	0
Aniakchak	4	IH2	0	101206	0
Aniakchak	4	IH3	0	101206	0
Aniakchak	4	IH4	0	101206	0
Aniakchak	4	IH5	0	101206	0
Aniakchak	4	IH6	0	101206	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Aniakchak	4	IH7	0	101206	0
Aniakchak	4	IH8	0	101206	0
Aniakchak	5	IH1	0	101206	0
Aniakchak	5	IH2	0	101206	0
Aniakchak	5	IH3	0	101206	0
Aniakchak	5	IH4	0	101206	0
Aniakchak	5	IH5	0	101206	0
Aniakchak	5	IH6	0	101206	0
Aniakchak	5	IH7	0	101206	0
Aniakchak	5	IH8	0	101206	0
Aniakchak	6	IH1	0	101206	0
Aniakchak	6	IH2	0	101206	0
Aniakchak	6	IH3	0	101206	0
Aniakchak	6	IH4	0	101206	0
Aniakchak	6	IH5	8670	101206	10
Aniakchak	6	IH6	0	101206	0
Aniakchak	6	IH7	0	101206	0
Aniakchak	6	IH8	0	101206	0
Beaufort Sea	1	IH1	0	222640	0
Beaufort Sea	1	IH2	0	222640	0
Beaufort Sea	1	IH3	1003	222640	0
Beaufort Sea	1	IH4	220298	222640	100
Beaufort Sea	1	IH5	0	222640	0
Beaufort Sea	1	IH6	0	222640	0
Beaufort Sea	1	IH7	0	222640	0
Beaufort Sea	1	IH8	0	222640	0
Beaufort Sea	2	IH1	0	222640	0
Beaufort Sea	2	IH2	0	222640	0
Beaufort Sea	2	IH3	0	222640	0
Beaufort Sea	2	IH4	221301	222640	100
Beaufort Sea	2	IH5	0	222640	0
Beaufort Sea	2	IH6	0	222640	0
Beaufort Sea	2	IH7	0	222640	0
Beaufort Sea	2	IH8	0	222640	0
Beaufort Sea	3	IH1	0	222640	0
Beaufort Sea	3	IH2	0	222640	0
Beaufort Sea	3	IH3	1634	222640	0
Beaufort Sea	3	IH4	219667	222640	100
Beaufort Sea	3	IH5	0	222640	0
Beaufort Sea	3	IH6	0	222640	0
Beaufort Sea	3	IH7	0	222640	0
Beaufort Sea	3	IH8	0	222640	0
Beaufort Sea	4	IH1	1193	222640	0
Beaufort Sea	4	IH2	90723	222640	40
Beaufort Sea	4	IH3	129385	222640	60
Beaufort Sea	4	IH4	0	222640	0
Beaufort Sea	4	IH5	0	222640	0
Beaufort Sea	4	IH6	0	222640	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Beaufort Sea	4	IH7	0	222640	0
Beaufort Sea	4	IH8	0	222640	0
Beaufort Sea	5	IH1	221301	222640	100
Beaufort Sea	5	IH2	0	222640	0
Beaufort Sea	5	IH3	0	222640	0
Beaufort Sea	5	IH4	0	222640	0
Beaufort Sea	5	IH5	0	222640	0
Beaufort Sea	5	IH6	0	222640	0
Beaufort Sea	5	IH7	0	222640	0
Beaufort Sea	5	IH8	0	222640	0
Beaufort Sea	6	IH1	0	222640	0
Beaufort Sea	6	IH2	135944	222640	60
Beaufort Sea	6	IH3	85357	222640	40
Beaufort Sea	6	IH4	0	222640	0
Beaufort Sea	6	IH5	0	222640	0
Beaufort Sea	6	IH6	0	222640	0
Beaufort Sea	6	IH7	0	222640	0
Beaufort Sea	6	IH8	0	222640	0
Bristol Bay	1	IH1	34283	38327	90
Bristol Bay	1	IH2	2854	38327	5
Bristol Bay	1	IH3	572	38327	0
Bristol Bay	1	IH4	0	38327	0
Bristol Bay	1	IH5	0	38327	0
Bristol Bay	1	IH6	0	38327	0
Bristol Bay	1	IH7	0	38327	0
Bristol Bay	1	IH8	0	38327	0
Bristol Bay	2	IH1	15000	38327	40
Bristol Bay	2	IH2	22138	38327	60
Bristol Bay	2	IH3	572	38327	0
Bristol Bay	2	IH4	0	38327	0
Bristol Bay	2	IH5	0	38327	0
Bristol Bay	2	IH6	0	38327	0
Bristol Bay	2	IH7	0	38327	0
Bristol Bay	2	IH8	0	38327	0
Bristol Bay	3	IH1	37138	38327	95
Bristol Bay	3	IH2	0	38327	0
Bristol Bay	3	IH3	572	38327	0
Bristol Bay	3	IH4	0	38327	0
Bristol Bay	3	IH5	0	38327	0
Bristol Bay	3	IH6	0	38327	0
Bristol Bay	3	IH7	0	38327	0
Bristol Bay	3	IH8	0	38327	0
Bristol Bay	4	IH1	8920	38327	25
Bristol Bay	4	IH2	0	38327	0
Bristol Bay	4	IH3	0	38327	0
Bristol Bay	4	IH4	0	38327	0
Bristol Bay	4	IH5	0	38327	0
Bristol Bay	4	IH6	0	38327	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Bristol Bay	4	IH7	0	38327	0
Bristol Bay	4	IH8	0	38327	0
Bristol Bay	5	IH1	0	38327	0
Bristol Bay	5	IH2	0	38327	0
Bristol Bay	5	IH3	0	38327	0
Bristol Bay	5	IH4	0	38327	0
Bristol Bay	5	IH5	0	38327	0
Bristol Bay	5	IH6	0	38327	0
Bristol Bay	5	IH7	0	38327	0
Bristol Bay	5	IH8	0	38327	0
Bristol Bay	6	IH1	31137	38327	80
Bristol Bay	6	IH2	572	38327	0
Bristol Bay	6	IH3	0	38327	0
Bristol Bay	6	IH4	0	38327	0
Bristol Bay	6	IH5	0	38327	0
Bristol Bay	6	IH6	0	38327	0
Bristol Bay	6	IH7	0	38327	0
Bristol Bay	6	IH8	0	38327	0
Chukchi Sea	1	IH1	0	212184	0
Chukchi Sea	1	IH2	0	212184	0
Chukchi Sea	1	IH3	72519	212184	35
Chukchi Sea	1	IH4	137705	212184	65
Chukchi Sea	1	IH5	0	212184	0
Chukchi Sea	1	IH6	0	212184	0
Chukchi Sea	1	IH7	0	212184	0
Chukchi Sea	1	IH8	0	212184	0
Chukchi Sea	2	IH1	0	212184	0
Chukchi Sea	2	IH2	0	212184	0
Chukchi Sea	2	IH3	15314	212184	10
Chukchi Sea	2	IH4	194890	212184	90
Chukchi Sea	2	IH5	0	212184	0
Chukchi Sea	2	IH6	0	212184	0
Chukchi Sea	2	IH7	0	212184	0
Chukchi Sea	2	IH8	0	212184	0
Chukchi Sea	3	IH1	0	212184	0
Chukchi Sea	3	IH2	0	212184	0
Chukchi Sea	3	IH3	70530	212184	35
Chukchi Sea	3	IH4	139693	212184	65
Chukchi Sea	3	IH5	0	212184	0
Chukchi Sea	3	IH6	0	212184	0
Chukchi Sea	3	IH7	0	212184	0
Chukchi Sea	3	IH8	0	212184	0
Chukchi Sea	4	IH1	71820	212184	35
Chukchi Sea	4	IH2	59047	212184	30
Chukchi Sea	4	IH3	79357	212184	35
Chukchi Sea	4	IH4	0	212184	0
Chukchi Sea	4	IH5	0	212184	0
Chukchi Sea	4	IH6	0	212184	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Chukchi Sea	4	IH7	0	212184	0
Chukchi Sea	4	IH8	0	212184	0
Chukchi Sea	5	IH1	170125	212184	80
Chukchi Sea	5	IH2	0	212184	0
Chukchi Sea	5	IH3	0	212184	0
Chukchi Sea	5	IH4	0	212184	0
Chukchi Sea	5	IH5	0	212184	0
Chukchi Sea	5	IH6	0	212184	0
Chukchi Sea	5	IH7	0	212184	0
Chukchi Sea	5	IH8	0	212184	0
Chukchi Sea	6	IH1	138608	212184	65
Chukchi Sea	6	IH2	65760	212184	30
Chukchi Sea	6	IH3	5854	212184	5
Chukchi Sea	6	IH4	0	212184	0
Chukchi Sea	6	IH5	0	212184	0
Chukchi Sea	6	IH6	0	212184	0
Chukchi Sea	6	IH7	0	212184	0
Chukchi Sea	6	IH8	0	212184	0
Cook Inlet	1	IH1	0	19913	0
Cook Inlet	1	IH2	0	19913	0
Cook Inlet	1	IH3	0	19913	0
Cook Inlet	1	IH4	0	19913	0
Cook Inlet	1	IH5	12996	19913	65
Cook Inlet	1	IH6	2322	19913	10
Cook Inlet	1	IH7	2923	19913	15
Cook Inlet	1	IH8	0	19913	0
Cook Inlet	2	IH1	0	19913	0
Cook Inlet	2	IH2	0	19913	0
Cook Inlet	2	IH3	0	19913	0
Cook Inlet	2	IH4	0	19913	0
Cook Inlet	2	IH5	12996	19913	65
Cook Inlet	2	IH6	2322	19913	10
Cook Inlet	2	IH7	2923	19913	15
Cook Inlet	2	IH8	0	19913	0
Cook Inlet	3	IH1	0	19913	0
Cook Inlet	3	IH2	0	19913	0
Cook Inlet	3	IH3	0	19913	0
Cook Inlet	3	IH4	0	19913	0
Cook Inlet	3	IH5	12996	19913	65
Cook Inlet	3	IH6	2322	19913	10
Cook Inlet	3	IH7	2923	19913	15
Cook Inlet	3	IH8	0	19913	0
Cook Inlet	4	IH1	0	19913	0
Cook Inlet	4	IH2	0	19913	0
Cook Inlet	4	IH3	0	19913	0
Cook Inlet	4	IH4	0	19913	0
Cook Inlet	4	IH5	0	19913	0
Cook Inlet	4	IH6	0	19913	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Cook Inlet	4	IH7	0	19913	0
Cook Inlet	4	IH8	0	19913	0
Cook Inlet	5	IH1	0	19913	0
Cook Inlet	5	IH2	0	19913	0
Cook Inlet	5	IH3	0	19913	0
Cook Inlet	5	IH4	0	19913	0
Cook Inlet	5	IH5	0	19913	0
Cook Inlet	5	IH6	0	19913	0
Cook Inlet	5	IH7	0	19913	0
Cook Inlet	5	IH8	0	19913	0
Cook Inlet	6	IH1	0	19913	0
Cook Inlet	6	IH2	0	19913	0
Cook Inlet	6	IH3	0	19913	0
Cook Inlet	6	IH4	0	19913	0
Cook Inlet	6	IH5	0	19913	0
Cook Inlet	6	IH6	0	19913	0
Cook Inlet	6	IH7	0	19913	0
Cook Inlet	6	IH8	0	19913	0
Kodiak/Shelikof Strait	1	IH1	0	173544	0
Kodiak/Shelikof Strait	1	IH2	0	173544	0
Kodiak/Shelikof Strait	1	IH3	0	173544	0
Kodiak/Shelikof Strait	1	IH4	0	173544	0
Kodiak/Shelikof Strait	1	IH5	108988	173544	65
Kodiak/Shelikof Strait	1	IH6	1701	173544	0
Kodiak/Shelikof Strait	1	IH7	0	173544	0
Kodiak/Shelikof Strait	1	IH8	0	173544	0
Kodiak/Shelikof Strait	2	IH1	0	173544	0
Kodiak/Shelikof Strait	2	IH2	0	173544	0
Kodiak/Shelikof Strait	2	IH3	0	173544	0
Kodiak/Shelikof Strait	2	IH4	0	173544	0
Kodiak/Shelikof Strait	2	IH5	82654	173544	50
Kodiak/Shelikof Strait	2	IH6	1701	173544	0
Kodiak/Shelikof Strait	2	IH7	0	173544	0
Kodiak/Shelikof Strait	2	IH8	0	173544	0
Kodiak/Shelikof Strait	3	IH1	0	173544	0
Kodiak/Shelikof Strait	3	IH2	0	173544	0
Kodiak/Shelikof Strait	3	IH3	0	173544	0
Kodiak/Shelikof Strait	3	IH4	0	173544	0
Kodiak/Shelikof Strait	3	IH5	64740	173544	35
Kodiak/Shelikof Strait	3	IH6	2836	173544	0
Kodiak/Shelikof Strait	3	IH7	0	173544	0
Kodiak/Shelikof Strait	3	IH8	0	173544	0
Kodiak/Shelikof Strait	4	IH1	0	173544	0
Kodiak/Shelikof Strait	4	IH2	0	173544	0
Kodiak/Shelikof Strait	4	IH3	0	173544	0
Kodiak/Shelikof Strait	4	IH4	0	173544	0
Kodiak/Shelikof Strait	4	IH5	0	173544	0
Kodiak/Shelikof Strait	4	IH6	0	173544	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Kodiak/Shelikof Strait	4	IH7	0	173544	0
Kodiak/Shelikof Strait	4	IH8	0	173544	0
Kodiak/Shelikof Strait	5	IH1	0	173544	0
Kodiak/Shelikof Strait	5	IH2	0	173544	0
Kodiak/Shelikof Strait	5	IH3	0	173544	0
Kodiak/Shelikof Strait	5	IH4	0	173544	0
Kodiak/Shelikof Strait	5	IH5	0	173544	0
Kodiak/Shelikof Strait	5	IH6	0	173544	0
Kodiak/Shelikof Strait	5	IH7	0	173544	0
Kodiak/Shelikof Strait	5	IH8	0	173544	0
Kodiak/Shelikof Strait	6	IH1	0	173544	0
Kodiak/Shelikof Strait	6	IH2	0	173544	0
Kodiak/Shelikof Strait	6	IH3	0	173544	0
Kodiak/Shelikof Strait	6	IH4	0	173544	0
Kodiak/Shelikof Strait	6	IH5	20441	173544	10
Kodiak/Shelikof Strait	6	IH6	0	173544	0
Kodiak/Shelikof Strait	6	IH7	0	173544	0
Kodiak/Shelikof Strait	6	IH8	0	173544	0
Kotzebue Sound/Hope Basin	1	IH1	0	58142	0
Kotzebue Sound/Hope Basin	1	IH2	0	58142	0
Kotzebue Sound/Hope Basin	1	IH3	52677	58142	90
Kotzebue Sound/Hope Basin	1	IH4	1218	58142	0
Kotzebue Sound/Hope Basin	1	IH5	0	58142	0
Kotzebue Sound/Hope Basin	1	IH6	0	58142	0
Kotzebue Sound/Hope Basin	1	IH7	0	58142	0
Kotzebue Sound/Hope Basin	1	IH8	0	58142	0
Kotzebue Sound/Hope Basin	2	IH1	0	58142	0
Kotzebue Sound/Hope Basin	2	IH2	0	58142	0
Kotzebue Sound/Hope Basin	2	IH3	24494	58142	45
Kotzebue Sound/Hope Basin	2	IH4	29396	58142	50
Kotzebue Sound/Hope Basin	2	IH5	0	58142	0
Kotzebue Sound/Hope Basin	2	IH6	0	58142	0
Kotzebue Sound/Hope Basin	2	IH7	0	58142	0
Kotzebue Sound/Hope Basin	2	IH8	0	58142	0
Kotzebue Sound/Hope Basin	3	IH1	0	58142	0
Kotzebue Sound/Hope Basin	3	IH2	470	58142	0
Kotzebue Sound/Hope Basin	3	IH3	46713	58142	80
Kotzebue Sound/Hope Basin	3	IH4	6713	58142	10
Kotzebue Sound/Hope Basin	3	IH5	0	58142	0
Kotzebue Sound/Hope Basin	3	IH6	0	58142	0
Kotzebue Sound/Hope Basin	3	IH7	0	58142	0
Kotzebue Sound/Hope Basin	3	IH8	0	58142	0
Kotzebue Sound/Hope Basin	4	IH1	50185	58142	85
Kotzebue Sound/Hope Basin	4	IH2	3048	58142	5
Kotzebue Sound/Hope Basin	4	IH3	609	58142	0
Kotzebue Sound/Hope Basin	4	IH4	0	58142	0
Kotzebue Sound/Hope Basin	4	IH5	0	58142	0
Kotzebue Sound/Hope Basin	4	IH6	0	58142	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Kotzebue Sound/Hope Basin	4	IH7	0	58142	0
Kotzebue Sound/Hope Basin	4	IH8	0	58142	0
Kotzebue Sound/Hope Basin	5	IH1	37306	58142	65
Kotzebue Sound/Hope Basin	5	IH2	0	58142	0
Kotzebue Sound/Hope Basin	5	IH3	0	58142	0
Kotzebue Sound/Hope Basin	5	IH4	0	58142	0
Kotzebue Sound/Hope Basin	5	IH5	0	58142	0
Kotzebue Sound/Hope Basin	5	IH6	0	58142	0
Kotzebue Sound/Hope Basin	5	IH7	0	58142	0
Kotzebue Sound/Hope Basin	5	IH8	0	58142	0
Kotzebue Sound/Hope Basin	6	IH1	47796	58142	80
Kotzebue Sound/Hope Basin	6	IH2	4271	58142	5
Kotzebue Sound/Hope Basin	6	IH3	1828	58142	5
Kotzebue Sound/Hope Basin	6	IH4	0	58142	0
Kotzebue Sound/Hope Basin	6	IH5	0	58142	0
Kotzebue Sound/Hope Basin	6	IH6	0	58142	0
Kotzebue Sound/Hope Basin	6	IH7	0	58142	0
Kotzebue Sound/Hope Basin	6	IH8	0	58142	0
Norton Sound/St. Lawrence Is.	1	IH1	0	108297	0
Norton Sound/St. Lawrence Is.	1	IH2	28657	108297	25
Norton Sound/St. Lawrence Is.	1	IH3	78927	108297	75
Norton Sound/St. Lawrence Is.	1	IH4	0	108297	0
Norton Sound/St. Lawrence Is.	1	IH5	0	108297	0
Norton Sound/St. Lawrence Is.	1	IH6	0	108297	0
Norton Sound/St. Lawrence Is.	1	IH7	0	108297	0
Norton Sound/St. Lawrence Is.	1	IH8	0	108297	0
Norton Sound/St. Lawrence Is.	2	IH1	0	108297	0
Norton Sound/St. Lawrence Is.	2	IH2	0	108297	0
Norton Sound/St. Lawrence Is.	2	IH3	96218	108297	90
Norton Sound/St. Lawrence Is.	2	IH4	11366	108297	10
Norton Sound/St. Lawrence Is.	2	IH5	0	108297	0
Norton Sound/St. Lawrence Is.	2	IH6	0	108297	0
Norton Sound/St. Lawrence Is.	2	IH7	0	108297	0
Norton Sound/St. Lawrence Is.	2	IH8	0	108297	0
Norton Sound/St. Lawrence Is.	3	IH1	594	108297	0
Norton Sound/St. Lawrence Is.	3	IH2	92192	108297	85
Norton Sound/St. Lawrence Is.	3	IH3	14801	108297	15
Norton Sound/St. Lawrence Is.	3	IH4	0	108297	0
Norton Sound/St. Lawrence Is.	3	IH5	0	108297	0
Norton Sound/St. Lawrence Is.	3	IH6	0	108297	0
Norton Sound/St. Lawrence Is.	3	IH7	0	108297	0
Norton Sound/St. Lawrence Is.	3	IH8	0	108297	0
Norton Sound/St. Lawrence Is.	4	IH1	102350	108297	95
Norton Sound/St. Lawrence Is.	4	IH2	0	108297	0
Norton Sound/St. Lawrence Is.	4	IH3	0	108297	0
Norton Sound/St. Lawrence Is.	4	IH4	0	108297	0
Norton Sound/St. Lawrence Is.	4	IH5	0	108297	0
Norton Sound/St. Lawrence Is.	4	IH6	0	108297	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Norton Sound/St. Lawrence Is.	4	IH7	0	108297	0
Norton Sound/St. Lawrence Is.	4	IH8	0	108297	0
Norton Sound/St. Lawrence Is.	5	IH1	38972	108297	35
Norton Sound/St. Lawrence Is.	5	IH2	0	108297	0
Norton Sound/St. Lawrence Is.	5	IH3	0	108297	0
Norton Sound/St. Lawrence Is.	5	IH4	0	108297	0
Norton Sound/St. Lawrence Is.	5	IH5	0	108297	0
Norton Sound/St. Lawrence Is.	5	IH6	0	108297	0
Norton Sound/St. Lawrence Is.	5	IH7	0	108297	0
Norton Sound/St. Lawrence Is.	5	IH8	0	108297	0
Norton Sound/St. Lawrence Is.	6	IH1	106381	108297	100
Norton Sound/St. Lawrence Is.	6	IH2	1204	108297	0
Norton Sound/St. Lawrence Is.	6	IH3	0	108297	0
Norton Sound/St. Lawrence Is.	6	IH4	0	108297	0
Norton Sound/St. Lawrence Is.	6	IH5	0	108297	0
Norton Sound/St. Lawrence Is.	6	IH6	0	108297	0
Norton Sound/St. Lawrence Is.	6	IH7	0	108297	0
Norton Sound/St. Lawrence Is.	6	IH8	0	108297	0
Offshore Kenai Peninsula	1	IH1	0	60679	0
Offshore Kenai Peninsula	1	IH2	0	60679	0
Offshore Kenai Peninsula	1	IH3	0	60679	0
Offshore Kenai Peninsula	1	IH4	0	60679	0
Offshore Kenai Peninsula	1	IH5	51860	60679	85
Offshore Kenai Peninsula	1	IH6	0	60679	0
Offshore Kenai Peninsula	1	IH7	0	60679	0
Offshore Kenai Peninsula	1	IH8	0	60679	0
Offshore Kenai Peninsula	2	IH1	0	60679	0
Offshore Kenai Peninsula	2	IH2	0	60679	0
Offshore Kenai Peninsula	2	IH3	0	60679	0
Offshore Kenai Peninsula	2	IH4	0	60679	0
Offshore Kenai Peninsula	2	IH5	31482	60679	50
Offshore Kenai Peninsula	2	IH6	0	60679	0
Offshore Kenai Peninsula	2	IH7	0	60679	0
Offshore Kenai Peninsula	2	IH8	0	60679	0
Offshore Kenai Peninsula	3	IH1	0	60679	0
Offshore Kenai Peninsula	3	IH2	0	60679	0
Offshore Kenai Peninsula	3	IH3	0	60679	0
Offshore Kenai Peninsula	3	IH4	0	60679	0
Offshore Kenai Peninsula	3	IH5	19056	60679	30
Offshore Kenai Peninsula	3	IH6	0	60679	0
Offshore Kenai Peninsula	3	IH7	0	60679	0
Offshore Kenai Peninsula	3	IH8	0	60679	0
Offshore Kenai Peninsula	4	IH1	0	60679	0
Offshore Kenai Peninsula	4	IH2	0	60679	0
Offshore Kenai Peninsula	4	IH3	0	60679	0
Offshore Kenai Peninsula	4	IH4	0	60679	0
Offshore Kenai Peninsula	4	IH5	0	60679	0
Offshore Kenai Peninsula	4	IH6	0	60679	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Offshore Kenai Peninsula	4	IH7	0	60679	0
Offshore Kenai Peninsula	4	IH8	0	60679	0
Offshore Kenai Peninsula	5	IH1	0	60679	0
Offshore Kenai Peninsula	5	IH2	0	60679	0
Offshore Kenai Peninsula	5	IH3	0	60679	0
Offshore Kenai Peninsula	5	IH4	0	60679	0
Offshore Kenai Peninsula	5	IH5	0	60679	0
Offshore Kenai Peninsula	5	IH6	0	60679	0
Offshore Kenai Peninsula	5	IH7	0	60679	0
Offshore Kenai Peninsula	5	IH8	0	60679	0
Offshore Kenai Peninsula	6	IH1	0	60679	0
Offshore Kenai Peninsula	6	IH2	0	60679	0
Offshore Kenai Peninsula	6	IH3	0	60679	0
Offshore Kenai Peninsula	6	IH4	0	60679	0
Offshore Kenai Peninsula	6	IH5	0	60679	0
Offshore Kenai Peninsula	6	IH6	0	60679	0
Offshore Kenai Peninsula	6	IH7	0	60679	0
Offshore Kenai Peninsula	6	IH8	0	60679	0
Prince William Sound	1	IH1	0	7928	0
Prince William Sound	1	IH2	0	7928	0
Prince William Sound	1	IH3	0	7928	0
Prince William Sound	1	IH4	0	7928	0
Prince William Sound	1	IH5	7238	7928	90
Prince William Sound	1	IH6	0	7928	0
Prince William Sound	1	IH7	0	7928	0
Prince William Sound	1	IH8	0	7928	0
Prince William Sound	2	IH1	0	7928	0
Prince William Sound	2	IH2	0	7928	0
Prince William Sound	2	IH3	0	7928	0
Prince William Sound	2	IH4	0	7928	0
Prince William Sound	2	IH5	7238	7928	90
Prince William Sound	2	IH6	0	7928	0
Prince William Sound	2	IH7	0	7928	0
Prince William Sound	2	IH8	0	7928	0
Prince William Sound	3	IH1	0	7928	0
Prince William Sound	3	IH2	0	7928	0
Prince William Sound	3	IH3	0	7928	0
Prince William Sound	3	IH4	0	7928	0
Prince William Sound	3	IH5	7238	7928	90
Prince William Sound	3	IH6	0	7928	0
Prince William Sound	3	IH7	0	7928	0
Prince William Sound	3	IH8	0	7928	0
Prince William Sound	4	IH1	0	7928	0
Prince William Sound	4	IH2	0	7928	0
Prince William Sound	4	IH3	0	7928	0
Prince William Sound	4	IH4	0	7928	0
Prince William Sound	4	IH5	0	7928	0
Prince William Sound	4	IH6	0	7928	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Prince William Sound	4	IH7	0	7928	0
Prince William Sound	4	IH8	0	7928	0
Prince William Sound	5	IH1	0	7928	0
Prince William Sound	5	IH2	0	7928	0
Prince William Sound	5	IH3	0	7928	0
Prince William Sound	5	IH4	0	7928	0
Prince William Sound	5	IH5	0	7928	0
Prince William Sound	5	IH6	0	7928	0
Prince William Sound	5	IH7	0	7928	0
Prince William Sound	5	IH8	0	7928	0
Prince William Sound	6	IH1	0	7928	0
Prince William Sound	6	IH2	0	7928	0
Prince William Sound	6	IH3	0	7928	0
Prince William Sound	6	IH4	0	7928	0
Prince William Sound	6	IH5	0	7928	0
Prince William Sound	6	IH6	0	7928	0
Prince William Sound	6	IH7	0	7928	0
Prince William Sound	6	IH8	0	7928	0
South-Central Alaska	1	IH1	0	133740	0
South-Central Alaska	1	IH2	0	133740	0
South-Central Alaska	1	IH3	0	133740	0
South-Central Alaska	1	IH4	0	133740	0
South-Central Alaska	1	IH5	89558	133740	65
South-Central Alaska	1	IH6	0	133740	0
South-Central Alaska	1	IH7	0	133740	0
South-Central Alaska	1	IH8	0	133740	0
South-Central Alaska	2	IH1	0	133740	0
South-Central Alaska	2	IH2	0	133740	0
South-Central Alaska	2	IH3	0	133740	0
South-Central Alaska	2	IH4	0	133740	0
South-Central Alaska	2	IH5	43366	133740	30
South-Central Alaska	2	IH6	0	133740	0
South-Central Alaska	2	IH7	0	133740	0
South-Central Alaska	2	IH8	0	133740	0
South-Central Alaska	3	IH1	0	133740	0
South-Central Alaska	3	IH2	0	133740	0
South-Central Alaska	3	IH3	0	133740	0
South-Central Alaska	3	IH4	0	133740	0
South-Central Alaska	3	IH5	0	133740	0
South-Central Alaska	3	IH6	0	133740	0
South-Central Alaska	3	IH7	0	133740	0
South-Central Alaska	3	IH8	0	133740	0
South-Central Alaska	4	IH1	0	133740	0
South-Central Alaska	4	IH2	0	133740	0
South-Central Alaska	4	IH3	0	133740	0
South-Central Alaska	4	IH4	0	133740	0
South-Central Alaska	4	IH5	0	133740	0
South-Central Alaska	4	IH6	0	133740	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
South-Central Alaska	4	IH7	0	133740	0
South-Central Alaska	4	IH8	0	133740	0
South-Central Alaska	5	IH1	0	133740	0
South-Central Alaska	5	IH2	0	133740	0
South-Central Alaska	5	IH3	0	133740	0
South-Central Alaska	5	IH4	0	133740	0
South-Central Alaska	5	IH5	0	133740	0
South-Central Alaska	5	IH6	0	133740	0
South-Central Alaska	5	IH7	0	133740	0
South-Central Alaska	5	IH8	0	133740	0
South-Central Alaska	6	IH1	0	133740	0
South-Central Alaska	6	IH2	0	133740	0
South-Central Alaska	6	IH3	0	133740	0
South-Central Alaska	6	IH4	0	133740	0
South-Central Alaska	6	IH5	0	133740	0
South-Central Alaska	6	IH6	0	133740	0
South-Central Alaska	6	IH7	0	133740	0
South-Central Alaska	6	IH8	0	133740	0
Southeast Alaska	1	IH1	0	288133	0
Southeast Alaska	1	IH2	0	288133	0
Southeast Alaska	1	IH3	0	288133	0
Southeast Alaska	1	IH4	0	288133	0
Southeast Alaska	1	IH5	100409	288133	35
Southeast Alaska	1	IH6	6196	288133	0
Southeast Alaska	1	IH7	0	288133	0
Southeast Alaska	1	IH8	0	288133	0
Southeast Alaska	2	IH1	0	288133	0
Southeast Alaska	2	IH2	0	288133	0
Southeast Alaska	2	IH3	0	288133	0
Southeast Alaska	2	IH4	0	288133	0
Southeast Alaska	2	IH5	101639	288133	35
Southeast Alaska	2	IH6	3362	288133	0
Southeast Alaska	2	IH7	6749	288133	0
Southeast Alaska	2	IH8	0	288133	0
Southeast Alaska	3	IH1	0	288133	0
Southeast Alaska	3	IH2	0	288133	0
Southeast Alaska	3	IH3	0	288133	0
Southeast Alaska	3	IH4	0	288133	0
Southeast Alaska	3	IH5	77736	288133	25
Southeast Alaska	3	IH6	6749	288133	0
Southeast Alaska	3	IH7	0	288133	0
Southeast Alaska	3	IH8	0	288133	0
Southeast Alaska	4	IH1	0	288133	0
Southeast Alaska	4	IH2	0	288133	0
Southeast Alaska	4	IH3	0	288133	0
Southeast Alaska	4	IH4	0	288133	0
Southeast Alaska	4	IH5	0	288133	0
Southeast Alaska	4	IH6	0	288133	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Southeast Alaska	4	IH7	0	288133	0
Southeast Alaska	4	IH8	0	288133	0
Southeast Alaska	5	IH1	0	288133	0
Southeast Alaska	5	IH2	0	288133	0
Southeast Alaska	5	IH3	0	288133	0
Southeast Alaska	5	IH4	0	288133	0
Southeast Alaska	5	IH5	0	288133	0
Southeast Alaska	5	IH6	0	288133	0
Southeast Alaska	5	IH7	0	288133	0
Southeast Alaska	5	IH8	0	288133	0
Southeast Alaska	6	IH1	0	288133	0
Southeast Alaska	6	IH2	0	288133	0
Southeast Alaska	6	IH3	0	288133	0
Southeast Alaska	6	IH4	0	288133	0
Southeast Alaska	6	IH5	0	288133	0
Southeast Alaska	6	IH6	0	288133	0
Southeast Alaska	6	IH7	0	288133	0
Southeast Alaska	6	IH8	0	288133	0
Western Alaska	1	IH1	212522	484106	45
Western Alaska	1	IH2	145854	484106	30
Western Alaska	1	IH3	48705	484106	10
Western Alaska	1	IH4	0	484106	0
Western Alaska	1	IH5	0	484106	0
Western Alaska	1	IH6	0	484106	0
Western Alaska	1	IH7	0	484106	0
Western Alaska	1	IH8	0	484106	0
Western Alaska	2	IH1	109369	484106	25
Western Alaska	2	IH2	156056	484106	30
Western Alaska	2	IH3	193553	484106	40
Western Alaska	2	IH4	0	484106	0
Western Alaska	2	IH5	0	484106	0
Western Alaska	2	IH6	0	484106	0
Western Alaska	2	IH7	0	484106	0
Western Alaska	2	IH8	0	484106	0
Western Alaska	3	IH1	209021	484106	45
Western Alaska	3	IH2	237840	484106	50
Western Alaska	3	IH3	10421	484106	0
Western Alaska	3	IH4	0	484106	0
Western Alaska	3	IH5	0	484106	0
Western Alaska	3	IH6	0	484106	0
Western Alaska	3	IH7	0	484106	0
Western Alaska	3	IH8	0	484106	0
Western Alaska	4	IH1	275121	484106	55
Western Alaska	4	IH2	0	484106	0
Western Alaska	4	IH3	0	484106	0
Western Alaska	4	IH4	0	484106	0
Western Alaska	4	IH5	0	484106	0
Western Alaska	4	IH6	0	484106	0

AK_Region	Period	Ice_ habitat_ Type	Ice Area	AK_Region_ Marine_Area	Ice_%
Western Alaska	4	IH7	0	484106	0
Western Alaska	4	IH8	0	484106	0
Western Alaska	5	IH1	156	484106	0
Western Alaska	5	IH2	0	484106	0
Western Alaska	5	IH3	0	484106	0
Western Alaska	5	IH4	0	484106	0
Western Alaska	5	IH5	0	484106	0
Western Alaska	5	IH6	0	484106	0
Western Alaska	5	IH7	0	484106	0
Western Alaska	5	IH8	0	484106	0
Western Alaska	6	IH1	232778	484106	50
Western Alaska	6	IH2	0	484106	0
Western Alaska	6	IH3	0	484106	0
Western Alaska	6	IH4	0	484106	0
Western Alaska	6	IH5	0	484106	0
Western Alaska	6	IH6	0	484106	0
Western Alaska	6	IH7	0	484106	0
Western Alaska	6	IH8	0	484106	0

2.4 Protected Areas

Table 48. Habitat protected area percentages. Sorted by sum of protected shoreline and protected area percentages. Detailed descriptions of protected areas and shorelines are presented in Section 4.1.3 of the main report.

AK_Region	Protected_ Area_%	Protected_ Shoreline_%
Norton Sound/St. Lawrence Is.	100	97
Kotzebue Sound/Hope Basin	100	94
Chukchi Sea	86	80
Cook Inlet	58	96
Prince William Sound	78	64
Kodiak/Shelikof Strait	35	100
Beaufort Sea	25	99
Western Alaska	25	93
Aleutians	21	98
Aniakchak	17	100
Offshore Kenai Peninsula	16	87
South-Central Alaska	16	81
Bristol Bay	12	51
Southeast Alaska	1	8

2.5 Essential Fish Habitat

Table 49. Essential fish habitat species and life stages by region. Sorted by maximum EFH modifier. A detailed description of essential fish habitat is found in Section 4.1.3 of the main report.

Alaska_Region	Species_ EFH_2005	Stage_ EFH_2005	Species_ Arctic_EA	Stage_ Arctic_EA	Total_ Species	Total_ Life_ Stages	EFH_ Modifier
Aleutians	34	96	0	0	34	96	1.00
Kodiak/Shelikof Strait	27	75	0	0	27	75	0.78
Aniakchak	27	72	0	0	27	72	0.75
Western Alaska	30	72	0	0	30	72	0.75
Offshore Kenai Peninsula	25	65	0	0	25	65	0.68
South-Central Alaska	24	61	0	0	24	61	0.64
Cook Inlet	22	50	0	0	22	50	0.52
Southeast Alaska	23	46	0	0	23	46	0.48
Prince William Sound	15	33	0	0	15	33	0.34
Bristol Bay	15	31	0	0	15	31	0.32
Norton Sound/St. Lawrence Is.	13	29	0	0	13	29	0.30
Kotzebue Sound/Hope Basin	0	0	3	7	3	7	0.07
Chukchi Sea	0	0	3	7	3	7	0.07
Beaufort Sea	0	0	2	4	2	4	0.04

3.0 SPILLAGE INPUTS

3.1 Incident Rates

Table 50. Oil spill incident rates by region, season, and oil type. The Frop column displays current/historical incident frequencies (per year). The Frop Future column presents predicted 2025 incident frequency. The two '1to5' columns present the 1 to 5 linearized values used in the model for each region and season. See Section 5.2.1 of the main report for a detailed description of incident rate protocol.

Region	Period Code	Oil Type	Frop	Frop Future	Oil_ Frop_ 1to5	Oil_Frop_ Future_ 1to5
Aleutians	1	Crude	0	0.0653	0	1.0050
Aleutians	1	Distillate	0.12	0.2481	1.0099	1.0215
Aleutians	1	Heavy	0.56	0.4034	1.0497	1.0355
Aleutians	1	Light	11.28	12.9977	2.0183	2.1735
Aleutians	2	Crude	0	0.0653	0	1.0050
Aleutians	2	Distillate	0.39	0.8087	1.0343	1.0722
Aleutians	2	Heavy	0.5	0.3618	1.0443	1.0318
Aleutians	2	Light	19.78	22.7957	2.7863	3.0588
Aleutians	3	Crude	0	0.0653	0	1.0050
Aleutians	3	Distillate	0.28	0.579	1.0244	1.0514
Aleutians	3	Heavy	0.22	0.1601	1.0190	1.0136
Aleutians	3	Light	12.44	14.3347	2.1231	2.2943
Aleutians	4	Crude	0	0.0653	0	1.0050
Aleutians	4	Distillate	0.5	1.0384	1.0443	1.0929
Aleutians	4	Heavy	0.39	0.2817	1.0343	1.0245
Aleutians	4	Light	13.45	15.4982	2.2144	2.3994
Aleutians	5	Crude	0	0.0653	0	1.0050
Aleutians	5	Distillate	0.28	0.579	1.0244	1.0514
Aleutians	5	Heavy	0.67	0.4834	1.0596	1.0428
Aleutians	5	Light	16.44	18.9479	2.4845	2.7111
Aleutians	6	Crude	0	0.0653	0	1.0050
Aleutians	6	Distillate	0.22	0.4595	1.0190	1.0406
Aleutians	6	Heavy	0.44	0.3169	1.0389	1.0277
Aleutians	6	Light	11.33	13.0589	2.0228	2.1790
Aniakchak	1	Crude	0.02	0.0075	1.0009	0.9998
Aniakchak	1	Distillate	0.03	0.0421	1.0018	1.0029
Aniakchak	1	Heavy	0.04	0.0175	1.0027	1.0007
Aniakchak	1	Light	0.11	0.1274	1.0090	1.0106
Aniakchak	2	Crude	0.02	0.0075	1.0009	0.9998
Aniakchak	2	Distillate	0.03	0.0421	1.0018	1.0029
Aniakchak	2	Heavy	0.04	0.0175	1.0027	1.0007
Aniakchak	2	Light	0.78	0.8967	1.0696	1.0801
Aniakchak	3	Crude	0.02	0.0075	1.0009	0.9998
Aniakchak	3	Distillate	0.03	0.0421	1.0018	1.0029
Aniakchak	3	Heavy	0.04	0.0175	1.0027	1.0007
Aniakchak	3	Light	0.39	0.4484	1.0343	1.0396
Aniakchak	4	Crude	0.02	0.0075	1.0009	0.9998
Aniakchak	4	Distillate	0.03	0.0421	1.0018	1.0029
Aniakchak	4	Heavy	0.04	0.0175	1.0027	1.0007

Region	Period Code	Oil Type	Frop	Frop Future	Oil_ Frop_ 1to5	Oil_Frop_ Future_ 1to5
Aniakchak	4	Light	0.61	0.7031	1.0542	1.0626
Aniakchak	5	Crude	0.02	0.0075	1.0009	0.9998
Aniakchak	5	Distillate	0.03	0.0421	1.0018	1.0029
Aniakchak	5	Heavy	0.04	0.0175	1.0027	1.0007
Aniakchak	5	Light	0.61	0.7031	1.0542	1.0626
Aniakchak	6	Crude	0.02	0.0075	1.0009	0.9998
Aniakchak	6	Distillate	0.03	0.0421	1.0018	1.0029
Aniakchak	6	Heavy	0.04	0.0175	1.0027	1.0007
Aniakchak	6	Light	0.28	0.321	1.0244	1.0281
Beaufort Sea	1	Crude	1.83	10.0116	1.1644	1.9037
Beaufort Sea	1	Distillate	0	0.3663	0	1.0322
Beaufort Sea	1	Heavy	0	0.0585	0	1.0044
Beaufort Sea	1	Light	10.67	50.9039	1.9632	5.5985
Beaufort Sea	2	Crude	3.28	17.9627	1.2955	2.6221
Beaufort Sea	2	Distillate	0	0.3663	0	1.0322
Beaufort Sea	2	Heavy	0	0.0585	0	1.0044
Beaufort Sea	2	Light	13.5	64.4009	2.2189	6.8180
Beaufort Sea	3	Crude	3.72	20.3626	1.3352	2.8390
Beaufort Sea	3	Distillate	0.06	0.3663	1.0045	1.0322
Beaufort Sea	3	Heavy	0.07	0.0585	1.0054	1.0044
Beaufort Sea	3	Light	12	57.2405	2.0834	6.1710
Beaufort Sea	4	Crude	4.61	25.2351	1.4156	3.2792
Beaufort Sea	4	Distillate	0.06	0.3663	1.0045	1.0322
Beaufort Sea	4	Heavy	0.07	0.0585	1.0054	1.0044
Beaufort Sea	4	Light	9.89	47.1865	1.8927	5.2626
Beaufort Sea	5	Crude	2.89	15.8295	1.2602	2.4294
Beaufort Sea	5	Distillate	0.06	0.3663	1.0045	1.0322
Beaufort Sea	5	Heavy	0.07	0.0585	1.0054	1.0044
Beaufort Sea	5	Light	9.33	44.504	1.8421	5.0202
Beaufort Sea	6	Crude	2.39	13.0902	1.2150	2.1819
Beaufort Sea	6	Distillate	0.06	0.3663	1.0045	1.0322
Beaufort Sea	6	Heavy	0.07	0.0585	1.0054	1.0044
Beaufort Sea	6	Light	7.72	36.8156	1.6966	4.3256
Bristol Bay	1	Crude	0	0	0	0
Bristol Bay	1	Distillate	0	0.0923	0	1.0074
Bristol Bay	1	Heavy	0.04	0.0112	1.0027	1.0001
Bristol Bay	1	Light	0.28	0.3268	1.0244	1.0286
Bristol Bay	2	Crude	0	0	0	0
Bristol Bay	2	Distillate	0	0.0923	0	1.0074
Bristol Bay	2	Heavy	0.04	0.0112	1.0027	1.0001
Bristol Bay	2	Light	0.56	0.6536	1.0497	1.0582
Bristol Bay	3	Crude	0	0	0	0
Bristol Bay	3	Distillate	0.44	0.2285	1.0389	1.0197
Bristol Bay	3	Heavy	0.06	0.0174	1.0045	1.0007
Bristol Bay	3	Light	2.06	2.4121	1.1852	1.2170
Bristol Bay	4	Crude	0	0	0	0
Bristol Bay	4	Distillate	0.34	0.1777	1.0298	1.0152

Region	Period Code	Oil Type	Frop	Frop Future	Oil_ Frop_ 1to5	Oil_Frop_ Future_ 1to5
Bristol Bay	4	Heavy	0.28	0.0784	1.0244	1.0062
Bristol Bay	4	Light	6.45	7.5579	1.5819	1.6820
Bristol Bay	5	Crude	0	0	0	0
Bristol Bay	5	Distillate	0.17	0.0877	1.0145	1.0070
Bristol Bay	5	Heavy	0.11	0.0311	1.0090	1.0019
Bristol Bay	5	Light	1.22	1.4317	1.1093	1.1285
Bristol Bay	6	Crude	0	0	0	0
Bristol Bay	6	Distillate	0.12	0.0623	1.0099	1.0047
Bristol Bay	6	Heavy	0.04	0.0112	1.0027	1.0001
Bristol Bay	6	Light	0.39	0.4565	1.0343	1.0403
Chukchi Sea	1	Crude	0.01	0.061	1.0000	1.0046
Chukchi Sea	1	Distillate	0.07	0.0259	1.0054	1.0014
Chukchi Sea	1	Heavy	0	0.0271	0	1.0015
Chukchi Sea	1	Light	0.22	0.1828	1.0190	1.0156
Chukchi Sea	2	Crude	0.01	0.061	1.0000	1.0046
Chukchi Sea	2	Distillate	0.07	0.0259	1.0054	1.0014
Chukchi Sea	2	Heavy	0	0.0271	0	1.0015
Chukchi Sea	2	Light	0.11	0.2553	1.0090	1.0222
Chukchi Sea	3	Crude	0.01	0.061	1.0000	1.0046
Chukchi Sea	3	Distillate	0.07	0.0259	1.0054	1.0014
Chukchi Sea	3	Heavy	0.02	0.0271	1.0009	1.0015
Chukchi Sea	3	Light	0.11	0.2176	1.0090	1.0188
Chukchi Sea	4	Crude	0.01	0.061	1.0000	1.0046
Chukchi Sea	4	Distillate	0.07	0.0259	1.0054	1.0014
Chukchi Sea	4	Heavy	0.02	0.0271	1.0009	1.0015
Chukchi Sea	4	Light	0.11	0.9835	1.0090	1.0880
Chukchi Sea	5	Crude	0.01	0.061	1.0000	1.0046
Chukchi Sea	5	Distillate	0.07	0.0259	1.0054	1.0014
Chukchi Sea	5	Heavy	0.02	0.0271	1.0009	1.0015
Chukchi Sea	5	Light	0.61	0.6934	1.0542	1.0617
Chukchi Sea	6	Crude	0.01	0.061	1.0000	1.0046
Chukchi Sea	6	Distillate	0.07	0.0259	1.0054	1.0014
Chukchi Sea	6	Heavy	0.02	0.0271	1.0009	1.0015
Chukchi Sea	6	Light	0.06	0.4729	1.0045	1.0418
Cook Inlet	1	Crude	1.33	1.2577	1.1193	1.1127
Cook Inlet	1	Distillate	0.39	0.4903	1.0343	1.0434
Cook Inlet	1	Heavy	0.28	0.89	1.0244	1.0795
Cook Inlet	1	Light	6.78	7.4082	1.6117	1.6685
Cook Inlet	2	Crude	1.72	1.6266	1.1545	1.1461
Cook Inlet	2	Distillate	0.5	0.6296	1.0443	1.0560
Cook Inlet	2	Heavy	0.28	0.89	1.0244	1.0795
Cook Inlet	2	Light	7.61	8.3179	1.6867	1.7507
Cook Inlet	3	Crude	2.88	2.725	1.2593	1.2453
Cook Inlet	3	Distillate	1.11	1.3984	1.0994	1.1254
Cook Inlet	3	Heavy	0.39	1.2432	1.0343	1.1114
Cook Inlet	3	Light	9.89	10.8098	1.8927	1.9758
Cook Inlet	4	Crude	2.11	1.9997	1.1897	1.1798

Region	Period Code	Oil Type	Frop	Frop Future	Oil_ Frop_ 1to5	Oil_Frop_ Future_ 1to5
Cook Inlet	4	Distillate	0.72	0.9081	1.0642	1.0811
Cook Inlet	4	Heavy	0.5	1.5964	1.0443	1.1433
Cook Inlet	4	Light	12.78	13.9647	2.1538	2.2609
Cook Inlet	5	Crude	2.94	2.7837	1.2647	1.2506
Cook Inlet	5	Distillate	0.83	1.0419	1.0741	1.0932
Cook Inlet	5	Heavy	0.67	2.1332	1.0596	1.1918
Cook Inlet	5	Light	11.39	12.4453	2.0282	2.1236
Cook Inlet	6	Crude	1.33	1.2577	1.1193	1.1127
Cook Inlet	6	Distillate	0.39	0.4903	1.0343	1.0434
Cook Inlet	6	Heavy	0.39	1.2432	1.0343	1.1114
Cook Inlet	6	Light	7.06	7.713	1.6370	1.6960
Kodiak/Shelikof Strait	1	Crude	0.05	0.0144	1.0036	1.0004
Kodiak/Shelikof Strait	1	Distillate	0.33	0.6093	1.0289	1.0541
Kodiak/Shelikof Strait	1	Heavy	0.17	0.0909	1.0145	1.0073
Kodiak/Shelikof Strait	1	Light	7	7.9391	1.6316	1.7164
Kodiak/Shelikof Strait	2	Crude	0.05	0.0144	1.0036	1.0004
Kodiak/Shelikof Strait	2	Distillate	0.11	0.2031	1.0090	1.0174
Kodiak/Shelikof Strait	2	Heavy	0.11	0.0598	1.0090	1.0045
Kodiak/Shelikof Strait	2	Light	7.45	8.4463	1.6722	1.7623
Kodiak/Shelikof Strait	3	Crude	0.05	0.0144	1.0036	1.0004
Kodiak/Shelikof Strait	3	Distillate	0.39	0.7149	1.0343	1.0637
Kodiak/Shelikof Strait	3	Heavy	0.17	0.0909	1.0145	1.0073
Kodiak/Shelikof Strait	3	Light	7.28	8.2555	1.6569	1.7450
Kodiak/Shelikof Strait	4	Crude	0.05	0.0144	1.0036	1.0004
Kodiak/Shelikof Strait	4	Distillate	0.28	0.5118	1.0244	1.0453
Kodiak/Shelikof Strait	4	Heavy	0.06	0.0335	1.0045	1.0021
Kodiak/Shelikof Strait	4	Light	9.17	10.3997	1.8276	1.9388
Kodiak/Shelikof Strait	5	Crude	0.05	0.0144	1.0036	1.0004
Kodiak/Shelikof Strait	5	Distillate	0.11	0.2031	1.0090	1.0174
Kodiak/Shelikof Strait	5	Heavy	0.17	0.0909	1.0145	1.0073
Kodiak/Shelikof Strait	5	Light	6.89	7.8136	1.6216	1.7051
Kodiak/Shelikof Strait	6	Crude	0.05	0.0144	1.0036	1.0004
Kodiak/Shelikof Strait	6	Distillate	0.23	0.4225	1.0199	1.0373
Kodiak/Shelikof Strait	6	Heavy	0.28	0.1507	1.0244	1.0127
Kodiak/Shelikof Strait	6	Light	6	6.8042	1.5412	1.6139
Kotzebue Sound/Hope Basin	1	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	1	Distillate	0	0.2162	0	1.0186
Kotzebue Sound/Hope Basin	1	Heavy	0	0.0185	0	1.0008
Kotzebue Sound/Hope Basin	1	Light	0.11	0.1087	1.0090	1.0089
Kotzebue Sound/Hope Basin	2	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	2	Distillate	0	0.2162	0	1.0186
Kotzebue Sound/Hope Basin	2	Heavy	0	0.0185	0	1.0008
Kotzebue Sound/Hope Basin	2	Light	0.28	0.2739	1.0244	1.0238
Kotzebue Sound/Hope Basin	3	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	3	Distillate	0.06	0.0378	1.0045	1.0025
Kotzebue Sound/Hope Basin	3	Heavy	0.03	0.0185	1.0018	1.0008
Kotzebue Sound/Hope Basin	3	Light	0.17	0.1652	1.0145	1.0140

Region	Period Code	Oil Type	Frop	Frop Future	Oil_ Frop_ 1to5	Oil_Frop_ Future_ 1to5
Kotzebue Sound/Hope Basin	4	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	4	Distillate	0.12	0.073	1.0099	1.0057
Kotzebue Sound/Hope Basin	4	Heavy	0.03	0.0185	1.0018	1.0008
Kotzebue Sound/Hope Basin	4	Light	0.72	0.7086	1.0642	1.0631
Kotzebue Sound/Hope Basin	5	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	5	Distillate	0.11	0.0676	1.0090	1.0052
Kotzebue Sound/Hope Basin	5	Heavy	0.03	0.0185	1.0018	1.0008
Kotzebue Sound/Hope Basin	5	Light	0.33	0.326	1.0289	1.0286
Kotzebue Sound/Hope Basin	6	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	6	Distillate	0.06	0.0378	1.0045	1.0025
Kotzebue Sound/Hope Basin	6	Heavy	0.03	0.0185	1.0018	1.0008
Kotzebue Sound/Hope Basin	6	Light	0.44	0.4304	1.0389	1.0380
Norton Sound/St. Lawrence Is.	1	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	1	Distillate	0.12	0.1322	1.0099	1.0110
Norton Sound/St. Lawrence Is.	1	Heavy	0	0.0227	0	1.0011
Norton Sound/St. Lawrence Is.	1	Light	0.28	0.3049	1.0244	1.0266
Norton Sound/St. Lawrence Is.	2	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	2	Distillate	0.11	0.1224	1.0090	1.0102
Norton Sound/St. Lawrence Is.	2	Heavy	0	0.0227	0	1.0011
Norton Sound/St. Lawrence Is.	2	Light	0.39	0.4259	1.0343	1.0376
Norton Sound/St. Lawrence Is.	3	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	3	Distillate	0.06	0.0685	1.0045	1.0053
Norton Sound/St. Lawrence Is.	3	Heavy	0.04	0.0054	1.0027	0.9996
Norton Sound/St. Lawrence Is.	3	Light	0.33	0.363	1.0289	1.0319
Norton Sound/St. Lawrence Is.	4	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	4	Distillate	0.18	0.2008	1.0154	1.0172
Norton Sound/St. Lawrence Is.	4	Heavy	0.05	0.0066	1.0036	0.9997
Norton Sound/St. Lawrence Is.	4	Light	1.5	1.6407	1.1346	1.1473
Norton Sound/St. Lawrence Is.	5	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	5	Distillate	0.17	0.1861	1.0145	1.0159
Norton Sound/St. Lawrence Is.	5	Heavy	0.04	0.0054	1.0027	0.9996
Norton Sound/St. Lawrence Is.	5	Light	1.06	1.1567	1.0949	1.1036
Norton Sound/St. Lawrence Is.	6	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	6	Distillate	0.06	0.0685	1.0045	1.0053
Norton Sound/St. Lawrence Is.	6	Heavy	0.04	0.0054	1.0027	0.9996
Norton Sound/St. Lawrence Is.	6	Light	0.72	0.7889	1.0642	1.0704
Offshore Kenai Peninsula	1	Crude	0.01	0.0031	1.0000	0.9994
Offshore Kenai Peninsula	1	Distillate	0.11	0.0792	1.0090	1.0063
Offshore Kenai Peninsula	1	Heavy	0.11	0.0489	1.0090	1.0035
Offshore Kenai Peninsula	1	Light	1.28	1.4822	1.1148	1.1330
Offshore Kenai Peninsula	2	Crude	0.01	0.0031	1.0000	0.9994
Offshore Kenai Peninsula	2	Distillate	0.11	0.0792	1.0090	1.0063
Offshore Kenai Peninsula	2	Heavy	0.11	0.0489	1.0090	1.0035
Offshore Kenai Peninsula	2	Light	2.11	2.4463	1.1897	1.2201
Offshore Kenai Peninsula	3	Crude	0.01	0.0031	1.0000	0.9994
Offshore Kenai Peninsula	3	Distillate	0.17	0.1204	1.0145	1.0100
Offshore Kenai Peninsula	3	Heavy	0.03	0.0137	1.0018	1.0003

Region	Period Code	Oil Type	Frop	Frop Future	Oil_ Frop_ 1to5	Oil_Frop_ Future_ 1to5
Offshore Kenai Peninsula	3	Light	2.61	3.0207	1.2349	1.2720
Offshore Kenai Peninsula	4	Crude	0.01	0.0031	1.0000	0.9994
Offshore Kenai Peninsula	4	Distillate	0.11	0.0792	1.0090	1.0063
Offshore Kenai Peninsula	4	Heavy	0.03	0.0137	1.0018	1.0003
Offshore Kenai Peninsula	4	Light	3	3.4772	1.2702	1.3133
Offshore Kenai Peninsula	5	Crude	0.01	0.0031	1.0000	0.9994
Offshore Kenai Peninsula	5	Distillate	0.33	0.2377	1.0289	1.0206
Offshore Kenai Peninsula	5	Heavy	0.03	0.0137	1.0018	1.0003
Offshore Kenai Peninsula	5	Light	2.22	2.5694	1.1997	1.2313
Offshore Kenai Peninsula	6	Crude	0.01	0.0031	1.0000	0.9994
Offshore Kenai Peninsula	6	Distillate	0.06	0.5166	1.0045	1.0458
Offshore Kenai Peninsula	6	Heavy	0.03	0.0137	1.0018	1.0003
Offshore Kenai Peninsula	6	Light	1.67	1.9335	1.1500	1.1738
Prince William Sound	1	Crude	0.83	0.4957	1.0741	1.0439
Prince William Sound	1	Distillate	0.39	0.4625	1.0343	1.0409
Prince William Sound	1	Heavy	0.06	0.5221	1.0045	1.0463
Prince William Sound	1	Light	5.67	5.7062	1.5114	1.5147
Prince William Sound	2	Crude	0.61	0.3658	1.0542	1.0321
Prince William Sound	2	Distillate	0.39	0.4625	1.0343	1.0409
Prince William Sound	2	Heavy	0.06	0.5221	1.0045	1.0463
Prince William Sound	2	Light	6.22	6.2634	1.5611	1.5650
Prince William Sound	3	Crude	0.5	0.2996	1.0443	1.0262
Prince William Sound	3	Distillate	0.78	0.9251	1.0696	1.0827
Prince William Sound	3	Heavy	0.06	0.5221	1.0045	1.0463
Prince William Sound	3	Light	7.56	7.6097	1.6822	1.6867
Prince William Sound	4	Crude	0.67	0.4003	1.0596	1.0353
Prince William Sound	4	Distillate	0.84	0.9987	1.0750	1.0893
Prince William Sound	4	Heavy	0.28	2.3494	1.0244	1.2114
Prince William Sound	4	Light	12.17	12.2504	2.0987	2.1060
Prince William Sound	5	Crude	0.28	0.167	1.0244	1.0142
Prince William Sound	5	Distillate	0.28	0.3311	1.0244	1.0290
Prince William Sound	5	Heavy	0.06	0.5221	1.0045	1.0463
Prince William Sound	5	Light	8.5	8.5592	1.7671	1.7725
Prince William Sound	6	Crude	0.56	0.334	1.0497	1.0293
Prince William Sound	6	Distillate	0.73	0.8673	1.0651	1.0775
Prince William Sound	6	Heavy	0.17	1.4171	1.0145	1.1271
Prince William Sound	6	Light	5	5.033	1.4509	1.4539
South-Central Alaska	1	Crude	0.11	0.0617	1.0090	1.0047
South-Central Alaska	1	Distillate	0	0.0295	0	1.0018
South-Central Alaska	1	Heavy	0.05	0.0258	1.0036	1.0014
South-Central Alaska	1	Light	0.39	0.4808	1.0343	1.0425
South-Central Alaska	2	Crude	0.11	0.0617	1.0090	1.0047
South-Central Alaska	2	Distillate	0	0.0295	0	1.0018
South-Central Alaska	2	Heavy	0.11	0.0586	1.0090	1.0044
South-Central Alaska	2	Light	0.83	1.0217	1.0741	1.0914
South-Central Alaska	3	Crude	0.05	0.0271	1.0036	1.0015
South-Central Alaska	3	Distillate	0.22	0.0739	1.0190	1.0058

Region	Period Code	Oil Type	Frop	Frop Future	Oil_ Frop_ 1to5	Oil_Frop_ Future_ 1to5
South-Central Alaska	3	Heavy	0.11	0.0586	1.0090	1.0044
South-Central Alaska	3	Light	1.11	1.3714	1.0994	1.1230
South-Central Alaska	4	Crude	0.04	0.0222	1.0027	1.0011
South-Central Alaska	4	Distillate	0.11	0.0369	1.0090	1.0024
South-Central Alaska	4	Heavy	0.04	0.0211	1.0027	1.0010
South-Central Alaska	4	Light	0.78	0.9616	1.0696	1.0860
South-Central Alaska	5	Crude	0.04	0.0222	1.0027	1.0011
South-Central Alaska	5	Distillate	0.11	0.0369	1.0090	1.0024
South-Central Alaska	5	Heavy	0.04	0.0211	1.0027	1.0010
South-Central Alaska	5	Light	0.94	1.1583	1.0840	1.1038
South-Central Alaska	6	Crude	0.05	0.0271	1.0036	1.0015
South-Central Alaska	6	Distillate	0	0.0295	0	1.0018
South-Central Alaska	6	Heavy	0.05	0.0258	1.0036	1.0014
South-Central Alaska	6	Light	0.44	0.5409	1.0389	1.0480
Southeast Alaska	1	Crude	0.03	0.0419	1.0018	1.0029
Southeast Alaska	1	Distillate	2.11	2.6772	1.1897	1.2410
Southeast Alaska	1	Heavy	0.39	0.3002	1.0343	1.0262
Southeast Alaska	1	Light	20.17	23.2539	2.8215	3.1002
Southeast Alaska	2	Crude	0.03	0.0419	1.0018	1.0029
Southeast Alaska	2	Distillate	1.61	2.6772	1.1446	1.2410
Southeast Alaska	2	Heavy	0.33	0.2559	1.0289	1.0222
Southeast Alaska	2	Light	27.56	31.7744	3.4893	3.8701
Southeast Alaska	3	Crude	0.03	0.0419	1.0018	1.0029
Southeast Alaska	3	Distillate	1.72	2.6772	1.1545	1.2410
Southeast Alaska	3	Heavy	0.33	0.2559	1.0289	1.0222
Southeast Alaska	3	Light	25.84	29.7936	3.3339	3.6911
Southeast Alaska	4	Crude	0.03	0.0419	1.0018	1.0029
Southeast Alaska	4	Distillate	3.72	2.6772	1.3352	1.2410
Southeast Alaska	4	Heavy	0.5	0.3855	1.0443	1.0339
Southeast Alaska	4	Light	44.28	51.0515	5	5.6118
Southeast Alaska	5	Crude	0.03	0.0419	1.0018	1.0029
Southeast Alaska	5	Distillate	3.61	2.6772	1.3253	1.2410
Southeast Alaska	5	Heavy	0.67	0.5151	1.0596	1.0456
Southeast Alaska	5	Light	38.95	44.9049	4.5184	5.0565
Southeast Alaska	6	Crude	0.03	0.0419	1.0018	1.0029
Southeast Alaska	6	Distillate	2.83	2.6772	1.2548	1.2410
Southeast Alaska	6	Heavy	0.78	0.6004	1.0696	1.0533
Southeast Alaska	6	Light	26.17	30.1714	3.3637	3.7252
Western Alaska	1	Crude	0	0	0	0
Western Alaska	1	Distillate	0.22	0.1835	1.0190	1.0157
Western Alaska	1	Heavy	0	0.041	0	1.0028
Western Alaska	1	Light	1.28	1.4753	1.1148	1.1324
Western Alaska	2	Crude	0	0	0	0
Western Alaska	2	Distillate	0.11	0.0918	1.0090	1.0074
Western Alaska	2	Heavy	0	0.041	0	1.0028
Western Alaska	2	Light	1.67	1.9245	1.1500	1.1730
Western Alaska	3	Crude	0	0	0	0

Region	Period Code	Oil Type	Frop	Frop Future	Oil_ Frop_ 1to5	Oil_Frop_ Future_ 1to5
Western Alaska	3	Distillate	0.23	0.1909	1.0199	1.0163
Western Alaska	3	Heavy	0.07	0.041	1.0054	1.0028
Western Alaska	3	Light	2.89	3.3334	1.2602	1.3003
Western Alaska	4	Crude	0	0	0	0
Western Alaska	4	Distillate	0.72	0.5983	1.0642	1.0532
Western Alaska	4	Heavy	0.07	0.041	1.0054	1.0028
Western Alaska	4	Light	4	4.6096	1.3605	1.4156
Western Alaska	5	Crude	0	0	0	0
Western Alaska	5	Distillate	0.5	0.4148	1.0443	1.0366
Western Alaska	5	Heavy	0.07	0.041	1.0054	1.0028
Western Alaska	5	Light	4.39	5.0588	1.3958	1.4562
Western Alaska	6	Crude	0	0	0	0
Western Alaska	6	Distillate	0.5	0.4148	1.0443	1.0366
Western Alaska	6	Heavy	0.07	0.041	1.0054	1.0028
Western Alaska	6	Light	1.72	1.9806	1.1545	1.1781

3.2 Maximum Most Probable Discharge Volumes

Table 51. Maximum most probable discharge oil spill volumes by region, season, and oil type. The MMPD column displays the current/historical spill volumes. The MMPD_Future column displays the predicted 2025 spill volume used in the model. The two '1to5' columns present the 1 to 5 linearized values used in the model for each region and season. See Section 5.2.2 of the main report for a detailed description of spill volume protocol.

Region	Period Code	Oil Type	MMPD	MMPD_ Future	Oil_MMPD _1to5	Oil_MMPD_ Future_ 1to5
Aleutians	1	Crude	0	600	0	1.0005
Aleutians	1	Distillate	250	400	1.0001	1.0003
Aleutians	1	Heavy	250	1500	1.0001	1.0014
Aleutians	1	Light	250	200	1.0001	1.0001
Aleutians	2	Crude	0	600	0	1.0005
Aleutians	2	Distillate	250	400	1.0001	1.0003
Aleutians	2	Heavy	250	1500	1.0001	1.0014
Aleutians	2	Light	250	200	1.0001	1.0001
Aleutians	3	Crude	0	600	0	1.0005
Aleutians	3	Distillate	250	400	1.0001	1.0003
Aleutians	3	Heavy	250	1500	1.0001	1.0014
Aleutians	3	Light	250	200	1.0001	1.0001
Aleutians	4	Crude	0	600	0	1.0005
Aleutians	4	Distillate	250	400	1.0001	1.0003
Aleutians	4	Heavy	250	1500	1.0001	1.0014
Aleutians	4	Light	250	200	1.0001	1.0001
Aleutians	5	Crude	0	600	0	1.0005
Aleutians	5	Distillate	250	400	1.0001	1.0003
Aleutians	5	Heavy	250	1500	1.0001	1.0014
Aleutians	5	Light	250	200	1.0001	1.0001
Aleutians	6	Crude	0	600	0	1.0005

Region	Period Code	Oil Type	MMPD	MMPD_ Future	Oil_MMPD _1to5	Oil_MMPD_ Future_ 1to5
Aleutians	6	Distillate	250	400	1.0001	1.0003
Aleutians	6	Heavy	250	1500	1.0001	1.0014
Aleutians	6	Light	250	200	1.0001	1.0001
Aniakchak	1	Crude	560	1900	1.0004	1.0018
Aniakchak	1	Distillate	560	400	1.0004	1.0003
Aniakchak	1	Heavy	560	2300	1.0004	1.0022
Aniakchak	1	Light	560	400	1.0004	1.0003
Aniakchak	2	Crude	560	1900	1.0004	1.0018
Aniakchak	2	Distillate	560	400	1.0004	1.0003
Aniakchak	2	Heavy	560	2300	1.0004	1.0022
Aniakchak	2	Light	560	400	1.0004	1.0003
Aniakchak	3	Crude	560	1900	1.0004	1.0018
Aniakchak	3	Distillate	560	400	1.0004	1.0003
Aniakchak	3	Heavy	560	2300	1.0004	1.0022
Aniakchak	3	Light	560	400	1.0004	1.0003
Aniakchak	4	Crude	560	1900	1.0004	1.0018
Aniakchak	4	Distillate	560	400	1.0004	1.0003
Aniakchak	4	Heavy	560	2300	1.0004	1.0022
Aniakchak	4	Light	560	400	1.0004	1.0003
Aniakchak	5	Crude	560	1900	1.0004	1.0018
Aniakchak	5	Distillate	560	400	1.0004	1.0003
Aniakchak	5	Heavy	560	2300	1.0004	1.0022
Aniakchak	5	Light	560	400	1.0004	1.0003
Aniakchak	6	Crude	560	1900	1.0004	1.0018
Aniakchak	6	Distillate	560	400	1.0004	1.0003
Aniakchak	6	Heavy	560	2300	1.0004	1.0022
Aniakchak	6	Light	560	400	1.0004	1.0003
Beaufort Sea	1	Crude	1200	1200	1.0011	1.0011
Beaufort Sea	1	Distillate	0	1100	0	1.0010
Beaufort Sea	1	Heavy	0	1600	0	1.0015
Beaufort Sea	1	Light	1200	1200	1.0011	1.0011
Beaufort Sea	2	Crude	1200	1200	1.0011	1.0011
Beaufort Sea	2	Distillate	0	1100	0	1.0010
Beaufort Sea	2	Heavy	0	1600	0	1.0015
Beaufort Sea	2	Light	1200	1200	1.0011	1.0011
Beaufort Sea	3	Crude	1200	1200	1.0011	1.0011
Beaufort Sea	3	Distillate	1200	1100	1.0011	1.0010
Beaufort Sea	3	Heavy	1200	1600	1.0011	1.0015
Beaufort Sea	3	Light	1200	1200	1.0011	1.0011
Beaufort Sea	4	Crude	1200	1200	1.0011	1.0011
Beaufort Sea	4	Distillate	1200	1100	1.0011	1.0010
Beaufort Sea	4	Heavy	1200	1600	1.0011	1.0015
Beaufort Sea	4	Light	1200	1200	1.0011	1.0011
Beaufort Sea	5	Crude	1200	1200	1.0011	1.0011
Beaufort Sea	5	Distillate	1200	1100	1.0011	1.0010
Beaufort Sea	5	Heavy	1200	1600	1.0011	1.0015

Region	Period Code	Oil Type	MMPD	MMPD_ Future	Oil_MMPD _1to5	Oil_MMPD_ Future_ 1to5
Beaufort Sea	5	Light	1200	1200	1.0011	1.0011
Beaufort Sea	6	Crude	1200	1200	1.0011	1.0011
Beaufort Sea	6	Distillate	1200	1100	1.0011	1.0010
Beaufort Sea	6	Heavy	1200	1600	1.0011	1.0015
Beaufort Sea	6	Light	1200	1200	1.0011	1.0011
Bristol Bay	1	Crude	0	0	0	0
Bristol Bay	1	Distillate	0	1000	0	1.0009
Bristol Bay	1	Heavy	420	500	1.0003	1.0004
Bristol Bay	1	Light	420	200	1.0003	1.0001
Bristol Bay	2	Crude	0	0	0	0
Bristol Bay	2	Distillate	0	1000	0	1.0009
Bristol Bay	2	Heavy	420	500	1.0003	1.0004
Bristol Bay	2	Light	420	200	1.0003	1.0001
Bristol Bay	3	Crude	0	0	0	0
Bristol Bay	3	Distillate	420	1000	1.0003	1.0009
Bristol Bay	3	Heavy	420	500	1.0003	1.0004
Bristol Bay	3	Light	420	200	1.0003	1.0001
Bristol Bay	4	Crude	0	0	0	0
Bristol Bay	4	Distillate	420	1000	1.0003	1.0009
Bristol Bay	4	Heavy	420	500	1.0003	1.0004
Bristol Bay	4	Light	420	200	1.0003	1.0001
Bristol Bay	5	Crude	0	0	0	0
Bristol Bay	5	Distillate	420	1000	1.0003	1.0009
Bristol Bay	5	Heavy	420	500	1.0003	1.0004
Bristol Bay	5	Light	420	200	1.0003	1.0001
Bristol Bay	6	Crude	0	0	0	0
Bristol Bay	6	Distillate	420	1000	1.0003	1.0009
Bristol Bay	6	Heavy	420	500	1.0003	1.0004
Bristol Bay	6	Light	420	200	1.0003	1.0001
Chukchi Sea	1	Crude	560	1200	1.0004	1.0011
Chukchi Sea	1	Distillate	560	200	1.0004	1.0001
Chukchi Sea	1	Heavy	560	2000	1.0004	1.0019
Chukchi Sea	1	Light	560	800	1.0004	1.0007
Chukchi Sea	2	Crude	560	1200	1.0004	1.0011
Chukchi Sea	2	Distillate	560	200	1.0004	1.0001
Chukchi Sea	2	Heavy	560	2000	1.0004	1.0019
Chukchi Sea	2	Light	560	800	1.0004	1.0007
Chukchi Sea	3	Crude	560	1200	1.0004	1.0011
Chukchi Sea	3	Distillate	560	200	1.0004	1.0001
Chukchi Sea	3	Heavy	560	2000	1.0004	1.0019
Chukchi Sea	3	Light	560	800	1.0004	1.0007
Chukchi Sea	4	Crude	560	1200	1.0004	1.0011
Chukchi Sea	4	Distillate	560	200	1.0004	1.0001
Chukchi Sea	4	Heavy	560	2000	1.0004	1.0019
Chukchi Sea	4	Light	560	800	1.0004	1.0007
Chukchi Sea	5	Crude	560	1200	1.0004	1.0011

Region	Period Code	Oil Type	MMPD	MMPD_ Future	Oil_MMPD _1to5	Oil_MMPD_ Future_ 1to5
Chukchi Sea	5	Distillate	560	200	1.0004	1.0001
Chukchi Sea	5	Heavy	560	2000	1.0004	1.0019
Chukchi Sea	5	Light	560	800	1.0004	1.0007
Chukchi Sea	6	Crude	560	1200	1.0004	1.0011
Chukchi Sea	6	Distillate	560	200	1.0004	1.0001
Chukchi Sea	6	Heavy	560	2000	1.0004	1.0019
Chukchi Sea	6	Light	560	800	1.0004	1.0007
Cook Inlet	1	Crude	830	1200	1.0007	1.0011
Cook Inlet	1	Distillate	830	800	1.0007	1.0007
Cook Inlet	1	Heavy	830	1200	1.0007	1.0011
Cook Inlet	1	Light	830	700	1.0007	1.0006
Cook Inlet	2	Crude	830	1200	1.0007	1.0011
Cook Inlet	2	Distillate	830	800	1.0007	1.0007
Cook Inlet	2	Heavy	830	1200	1.0007	1.0011
Cook Inlet	2	Light	830	700	1.0007	1.0006
Cook Inlet	3	Crude	830	1200	1.0007	1.0011
Cook Inlet	3	Distillate	830	800	1.0007	1.0007
Cook Inlet	3	Heavy	830	1200	1.0007	1.0011
Cook Inlet	3	Light	830	700	1.0007	1.0006
Cook Inlet	4	Crude	830	1200	1.0007	1.0011
Cook Inlet	4	Distillate	830	800	1.0007	1.0007
Cook Inlet	4	Heavy	830	1200	1.0007	1.0011
Cook Inlet	4	Light	830	700	1.0007	1.0006
Cook Inlet	5	Crude	830	1200	1.0007	1.0011
Cook Inlet	5	Distillate	830	800	1.0007	1.0007
Cook Inlet	5	Heavy	830	1200	1.0007	1.0011
Cook Inlet	5	Light	830	700	1.0007	1.0006
Cook Inlet	6	Crude	830	1200	1.0007	1.0011
Cook Inlet	6	Distillate	830	800	1.0007	1.0007
Cook Inlet	6	Heavy	830	1200	1.0007	1.0011
Cook Inlet	6	Light	830	700	1.0007	1.0006
Kodiak/Shelikof Strait	1	Crude	150	1700	1.0000	1.0016
Kodiak/Shelikof Strait	1	Distillate	150	300	1.0000	1.0002
Kodiak/Shelikof Strait	1	Heavy	150	1200	1.0000	1.0011
Kodiak/Shelikof Strait	1	Light	150	100	1.0000	0.9999
Kodiak/Shelikof Strait	2	Crude	150	1700	1.0000	1.0016
Kodiak/Shelikof Strait	2	Distillate	150	300	1.0000	1.0002
Kodiak/Shelikof Strait	2	Heavy	150	1200	1.0000	1.0011
Kodiak/Shelikof Strait	2	Light	150	100	1.0000	0.9999
Kodiak/Shelikof Strait	3	Crude	150	1700	1.0000	1.0016
Kodiak/Shelikof Strait	3	Distillate	150	300	1.0000	1.0002
Kodiak/Shelikof Strait	3	Heavy	150	1200	1.0000	1.0011
Kodiak/Shelikof Strait	3	Light	150	100	1.0000	0.9999
Kodiak/Shelikof Strait	4	Crude	150	1700	1.0000	1.0016
Kodiak/Shelikof Strait	4	Distillate	150	300	1.0000	1.0002
Kodiak/Shelikof Strait	4	Heavy	150	1200	1.0000	1.0011

Region	Period Code	Oil Type	MMPD	MMPD_ Future	Oil_MMPD _1to5	Oil_MMPD_ Future_ 1to5
Kodiak/Shelikof Strait	4	Light	150	100	1.0000	0.9999
Kodiak/Shelikof Strait	5	Crude	150	1700	1.0000	1.0016
Kodiak/Shelikof Strait	5	Distillate	150	300	1.0000	1.0002
Kodiak/Shelikof Strait	5	Heavy	150	1200	1.0000	1.0011
Kodiak/Shelikof Strait	5	Light	150	100	1.0000	0.9999
Kodiak/Shelikof Strait	6	Crude	150	1700	1.0000	1.0016
Kodiak/Shelikof Strait	6	Distillate	150	300	1.0000	1.0002
Kodiak/Shelikof Strait	6	Heavy	150	1200	1.0000	1.0011
Kodiak/Shelikof Strait	6	Light	150	100	1.0000	0.9999
Kotzebue Sound/Hope Basin	1	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	1	Distillate	0	300	0	1.0002
Kotzebue Sound/Hope Basin	1	Heavy	0	1400	0	1.0013
Kotzebue Sound/Hope Basin	1	Light	790	800	1.0007	1.0007
Kotzebue Sound/Hope Basin	2	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	2	Distillate	0	300	0	1.0002
Kotzebue Sound/Hope Basin	2	Heavy	0	1400	0	1.0013
Kotzebue Sound/Hope Basin	2	Light	790	800	1.0007	1.0007
Kotzebue Sound/Hope Basin	3	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	3	Distillate	790	300	1.0007	1.0002
Kotzebue Sound/Hope Basin	3	Heavy	790	1400	1.0007	1.0013
Kotzebue Sound/Hope Basin	3	Light	790	800	1.0007	1.0007
Kotzebue Sound/Hope Basin	4	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	4	Distillate	790	300	1.0007	1.0002
Kotzebue Sound/Hope Basin	4	Heavy	790	1400	1.0007	1.0013
Kotzebue Sound/Hope Basin	4	Light	790	800	1.0007	1.0007
Kotzebue Sound/Hope Basin	5	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	5	Distillate	790	300	1.0007	1.0002
Kotzebue Sound/Hope Basin	5	Heavy	790	1400	1.0007	1.0013
Kotzebue Sound/Hope Basin	5	Light	790	800	1.0007	1.0007
Kotzebue Sound/Hope Basin	6	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	6	Distillate	790	300	1.0007	1.0002
Kotzebue Sound/Hope Basin	6	Heavy	790	1400	1.0007	1.0013
Kotzebue Sound/Hope Basin	6	Light	790	800	1.0007	1.0007
Norton Sound/St. Lawrence Is.	1	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	1	Distillate	650	700	1.0005	1.0006
Norton Sound/St. Lawrence Is.	1	Heavy	0	200	0	1.0001
Norton Sound/St. Lawrence Is.	1	Light	650	500	1.0005	1.0004
Norton Sound/St. Lawrence Is.	2	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	2	Distillate	650	700	1.0005	1.0006
Norton Sound/St. Lawrence Is.	2	Heavy	0	200	0	1.0001
Norton Sound/St. Lawrence Is.	2	Light	650	500	1.0005	1.0004
Norton Sound/St. Lawrence Is.	3	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	3	Distillate	650	700	1.0005	1.0006
Norton Sound/St. Lawrence Is.	3	Heavy	650	200	1.0005	1.0001
Norton Sound/St. Lawrence Is.	3	Light	650	500	1.0005	1.0004
Norton Sound/St. Lawrence Is.	4	Crude	0	0	0	0

Region	Period Code	Oil Type	MMPD	MMPD_ Future	Oil_MMPD _1to5	Oil_MMPD_ Future_ 1to5
Norton Sound/St. Lawrence Is.	4	Distillate	650	700	1.0005	1.0006
Norton Sound/St. Lawrence Is.	4	Heavy	650	200	1.0005	1.0001
Norton Sound/St. Lawrence Is.	4	Light	650	500	1.0005	1.0004
Norton Sound/St. Lawrence Is.	5	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	5	Distillate	650	700	1.0005	1.0006
Norton Sound/St. Lawrence Is.	5	Heavy	650	200	1.0005	1.0001
Norton Sound/St. Lawrence Is.	5	Light	650	500	1.0005	1.0004
Norton Sound/St. Lawrence Is.	6	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	6	Distillate	650	700	1.0005	1.0006
Norton Sound/St. Lawrence Is.	6	Heavy	650	200	1.0005	1.0001
Norton Sound/St. Lawrence Is.	6	Light	650	500	1.0005	1.0004
Offshore Kenai Peninsula	1	Crude	150	1900	1.0000	1.0018
Offshore Kenai Peninsula	1	Distillate	150	300	1.0000	1.0002
Offshore Kenai Peninsula	1	Heavy	150	700	1.0000	1.0006
Offshore Kenai Peninsula	1	Light	150	100	1.0000	0.9999
Offshore Kenai Peninsula	2	Crude	150	1900	1.0000	1.0018
Offshore Kenai Peninsula	2	Distillate	150	300	1.0000	1.0002
Offshore Kenai Peninsula	2	Heavy	150	700	1.0000	1.0006
Offshore Kenai Peninsula	2	Light	150	100	1.0000	0.9999
Offshore Kenai Peninsula	3	Crude	150	1900	1.0000	1.0018
Offshore Kenai Peninsula	3	Distillate	150	300	1.0000	1.0002
Offshore Kenai Peninsula	3	Heavy	150	700	1.0000	1.0006
Offshore Kenai Peninsula	3	Light	150	100	1.0000	0.9999
Offshore Kenai Peninsula	4	Crude	150	1900	1.0000	1.0018
Offshore Kenai Peninsula	4	Distillate	150	300	1.0000	1.0002
Offshore Kenai Peninsula	4	Heavy	150	700	1.0000	1.0006
Offshore Kenai Peninsula	4	Light	150	100	1.0000	0.9999
Offshore Kenai Peninsula	5	Crude	150	1900	1.0000	1.0018
Offshore Kenai Peninsula	5	Distillate	150	300	1.0000	1.0002
Offshore Kenai Peninsula	5	Heavy	150	700	1.0000	1.0006
Offshore Kenai Peninsula	5	Light	150	100	1.0000	0.9999
Offshore Kenai Peninsula	6	Crude	150	1900	1.0000	1.0018
Offshore Kenai Peninsula	6	Distillate	150	300	1.0000	1.0002
Offshore Kenai Peninsula	6	Heavy	150	700	1.0000	1.0006
Offshore Kenai Peninsula	6	Light	150	100	1.0000	0.9999
Prince William Sound	1	Crude	520	2000	1.0004	1.0019
Prince William Sound	1	Distillate	520	600	1.0004	1.0005
Prince William Sound	1	Heavy	520	1200	1.0004	1.0011
Prince William Sound	1	Light	520	200	1.0004	1.0001
Prince William Sound	2	Crude	520	2000	1.0004	1.0019
Prince William Sound	2	Distillate	520	600	1.0004	1.0005
Prince William Sound	2	Heavy	520	1200	1.0004	1.0011
Prince William Sound	2	Light	520	200	1.0004	1.0001
Prince William Sound	3	Crude	520	2000	1.0004	1.0019
Prince William Sound	3	Distillate	520	600	1.0004	1.0005
Prince William Sound	3	Heavy	520	1200	1.0004	1.0011

Region	Period Code	Oil Type	MMPD	MMPD_ Future	Oil_MMPD _1to5	Oil_MMPD_ Future_ 1to5
Prince William Sound	3	Light	520	200	1.0004	1.0001
Prince William Sound	4	Crude	520	2000	1.0004	1.0019
Prince William Sound	4	Distillate	520	600	1.0004	1.0005
Prince William Sound	4	Heavy	520	1200	1.0004	1.0011
Prince William Sound	4	Light	520	200	1.0004	1.0001
Prince William Sound	5	Crude	520	2000	1.0004	1.0019
Prince William Sound	5	Distillate	520	600	1.0004	1.0005
Prince William Sound	5	Heavy	520	1200	1.0004	1.0011
Prince William Sound	5	Light	520	200	1.0004	1.0001
Prince William Sound	6	Crude	520	2000	1.0004	1.0019
Prince William Sound	6	Distillate	520	600	1.0004	1.0005
Prince William Sound	6	Heavy	520	1200	1.0004	1.0011
Prince William Sound	6	Light	520	200	1.0004	1.0001
South-Central Alaska	1	Crude	670	2500	1.0005	1.0024
South-Central Alaska	1	Distillate	670	300	1.0005	1.0002
South-Central Alaska	1	Heavy	670	2200	1.0005	1.0021
South-Central Alaska	1	Light	670	400	1.0005	1.0003
South-Central Alaska	2	Crude	670	2500	1.0005	1.0024
South-Central Alaska	2	Distillate	670	300	1.0005	1.0002
South-Central Alaska	2	Heavy	670	2200	1.0005	1.0021
South-Central Alaska	2	Light	670	400	1.0005	1.0003
South-Central Alaska	3	Crude	670	2500	1.0005	1.0024
South-Central Alaska	3	Distillate	670	300	1.0005	1.0002
South-Central Alaska	3	Heavy	670	2200	1.0005	1.0021
South-Central Alaska	3	Light	670	400	1.0005	1.0003
South-Central Alaska	4	Crude	670	2500	1.0005	1.0024
South-Central Alaska	4	Distillate	670	300	1.0005	1.0002
South-Central Alaska	4	Heavy	670	2200	1.0005	1.0021
South-Central Alaska	4	Light	670	400	1.0005	1.0003
South-Central Alaska	5	Crude	670	2500	1.0005	1.0024
South-Central Alaska	5	Distillate	670	300	1.0005	1.0002
South-Central Alaska	5	Heavy	670	2200	1.0005	1.0021
South-Central Alaska	5	Light	670	400	1.0005	1.0003
South-Central Alaska	6	Crude	670	2500	1.0005	1.0024
South-Central Alaska	6	Distillate	670	300	1.0005	1.0002
South-Central Alaska	6	Heavy	670	2200	1.0005	1.0021
South-Central Alaska	6	Light	670	400	1.0005	1.0003
Southeast Alaska	1	Crude	230	1200	1.0001	1.0011
Southeast Alaska	1	Distillate	230	200	1.0001	1.0001
Southeast Alaska	1	Heavy	230	900	1.0001	1.0008
Southeast Alaska	1	Light	230	200	1.0001	1.0001
Southeast Alaska	2	Crude	230	1200	1.0001	1.0011
Southeast Alaska	2	Distillate	230	200	1.0001	1.0001
Southeast Alaska	2	Heavy	230	900	1.0001	1.0008
Southeast Alaska	2	Light	230	200	1.0001	1.0001
Southeast Alaska	3	Crude	230	1200	1.0001	1.0011

Region	Period Code	Oil Type	MMPD	MMPD_ Future	Oil_MMPD _1to5	Oil_MMPD_ Future_ 1to5
Southeast Alaska	3	Distillate	230	200	1.0001	1.0001
Southeast Alaska	3	Heavy	230	900	1.0001	1.0008
Southeast Alaska	3	Light	230	200	1.0001	1.0001
Southeast Alaska	4	Crude	230	1200	1.0001	1.0011
Southeast Alaska	4	Distillate	230	200	1.0001	1.0001
Southeast Alaska	4	Heavy	230	900	1.0001	1.0008
Southeast Alaska	4	Light	230	200	1.0001	1.0001
Southeast Alaska	5	Crude	230	1200	1.0001	1.0011
Southeast Alaska	5	Distillate	230	200	1.0001	1.0001
Southeast Alaska	5	Heavy	230	900	1.0001	1.0008
Southeast Alaska	5	Light	230	200	1.0001	1.0001
Southeast Alaska	6	Crude	230	1200	1.0001	1.0011
Southeast Alaska	6	Distillate	230	200	1.0001	1.0001
Southeast Alaska	6	Heavy	230	900	1.0001	1.0008
Southeast Alaska	6	Light	230	200	1.0001	1.0001
Western Alaska	1	Crude	0	0	0	0
Western Alaska	1	Distillate	510	700	1.0004	1.0006
Western Alaska	1	Heavy	0	800	0	1.0007
Western Alaska	1	Light	510	400	1.0004	1.0003
Western Alaska	2	Crude	0	0	0	0
Western Alaska	2	Distillate	510	700	1.0004	1.0006
Western Alaska	2	Heavy	0	800	0	1.0007
Western Alaska	2	Light	510	400	1.0004	1.0003
Western Alaska	3	Crude	0	0	0	0
Western Alaska	3	Distillate	510	700	1.0004	1.0006
Western Alaska	3	Heavy	510	800	1.0004	1.0007
Western Alaska	3	Light	510	400	1.0004	1.0003
Western Alaska	4	Crude	0	0	0	0
Western Alaska	4	Distillate	510	700	1.0004	1.0006
Western Alaska	4	Heavy	510	800	1.0004	1.0007
Western Alaska	4	Light	510	400	1.0004	1.0003
Western Alaska	5	Crude	0	0	0	0
Western Alaska	5	Distillate	510	700	1.0004	1.0006
Western Alaska	5	Heavy	510	800	1.0004	1.0007
Western Alaska	5	Light	510	400	1.0004	1.0003
Western Alaska	6	Crude	0	0	0	0
Western Alaska	6	Distillate	510	700	1.0004	1.0006
Western Alaska	6	Heavy	510	800	1.0004	1.0007
Western Alaska	6	Light	510	400	1.0004	1.0003

3.3 Worst Case Discharge Volumes

Table 52. Worst case discharge oil spill volumes by region, season, and oil type. The WCD column displays the current/historical spill volumes. The Future_WCD column displays the predicted 2025 spill volume used in the model. The two '1to5' columns present the 1 to 5 linearized values used in the model for each region and season MMPD spill volume. See Section 5.2.2 of the main report for a detailed description of spill volume protocol.

Region	Period Code	Oil Type	WCD	Future_ WCD	Oil_WCD_ 1to5	Oil_WCD_ Future _1to5
Aleutians	1	Crude	0	950000	0	1.9742
Aleutians	1	Distillate	523000	950000	1.5363	1.9742
Aleutians	1	Heavy	523000	950000	1.5363	1.9742
Aleutians	1	Light	523000	950000	1.5363	1.9742
Aleutians	2	Crude	0	950000	0	1.9742
Aleutians	2	Distillate	523000	950000	1.5363	1.9742
Aleutians	2	Heavy	523000	950000	1.5363	1.9742
Aleutians	2	Light	523000	950000	1.5363	1.9742
Aleutians	3	Crude	0	950000	0	1.9742
Aleutians	3	Distillate	523000	950000	1.5363	1.9742
Aleutians	3	Heavy	523000	950000	1.5363	1.9742
Aleutians	3	Light	523000	950000	1.5363	1.9742
Aleutians	4	Crude	0	950000	0	1.9742
Aleutians	4	Distillate	523000	950000	1.5363	1.9742
Aleutians	4	Heavy	523000	950000	1.5363	1.9742
Aleutians	4	Light	523000	950000	1.5363	1.9742
Aleutians	5	Crude	0	950000	0	1.9742
Aleutians	5	Distillate	523000	950000	1.5363	1.9742
Aleutians	5	Heavy	523000	950000	1.5363	1.9742
Aleutians	5	Light	523000	950000	1.5363	1.9742
Aleutians	6	Crude	0	950000	0	1.9742
Aleutians	6	Distillate	523000	950000	1.5363	1.9742
Aleutians	6	Heavy	523000	950000	1.5363	1.9742
Aleutians	6	Light	523000	950000	1.5363	1.9742
Aniakchak	1	Crude	523000	261500	1.5363	1.2681
Aniakchak	1	Distillate	523000	261500	1.5363	1.2681
Aniakchak	1	Heavy	523000	261500	1.5363	1.2681
Aniakchak	1	Light	523000	261500	1.5363	1.2681
Aniakchak	2	Crude	523000	261500	1.5363	1.2681
Aniakchak	2	Distillate	523000	261500	1.5363	1.2681
Aniakchak	2	Heavy	523000	261500	1.5363	1.2681
Aniakchak	2	Light	523000	261500	1.5363	1.2681
Aniakchak	3	Crude	523000	261500	1.5363	1.2681
Aniakchak	3	Distillate	523000	261500	1.5363	1.2681
Aniakchak	3	Heavy	523000	261500	1.5363	1.2681
Aniakchak	3	Light	523000	261500	1.5363	1.2681
Aniakchak	4	Crude	523000	261500	1.5363	1.2681
Aniakchak	4	Distillate	523000	261500	1.5363	1.2681
Aniakchak	4	Heavy	523000	261500	1.5363	1.2681
Aniakchak	4	Light	523000	261500	1.5363	1.2681
Aniakchak	5	Crude	523000	261500	1.5363	1.2681

Region	Period Code	Oil Type	WCD	Future_ WCD	Oil_WCD_ 1to5	Oil_WCD_ Future _1to5
Aniakchak	5	Distillate	523000	261500	1.5363	1.2681
Aniakchak	5	Heavy	523000	261500	1.5363	1.2681
Aniakchak	5	Light	523000	261500	1.5363	1.2681
Aniakchak	6	Crude	523000	261500	1.5363	1.2681
Aniakchak	6	Distillate	523000	261500	1.5363	1.2681
Aniakchak	6	Heavy	523000	261500	1.5363	1.2681
Aniakchak	6	Light	523000	261500	1.5363	1.2681
Beaufort Sea	1	Crude	3900000	3900000	5	5
Beaufort Sea	1	Distillate	0	950000	0	1.9742
Beaufort Sea	1	Heavy	0	950000	0	1.9742
Beaufort Sea	1	Light	523000	950000	1.5363	1.9742
Beaufort Sea	2	Crude	1900000	3900000	2.9486	5
Beaufort Sea	2	Distillate	0	950000	0	1.9742
Beaufort Sea	2	Heavy	0	950000	0	1.9742
Beaufort Sea	2	Light	523000	950000	1.5363	1.9742
Beaufort Sea	3	Crude	1900000	3900000	2.9486	5
Beaufort Sea	3	Distillate	523000	950000	1.5363	1.9742
Beaufort Sea	3	Heavy	523000	950000	1.5363	1.9742
Beaufort Sea	3	Light	523000	950000	1.5363	1.9742
Beaufort Sea	4	Crude	1900000	3900000	2.9486	5
Beaufort Sea	4	Distillate	523000	950000	1.5363	1.9742
Beaufort Sea	4	Heavy	523000	950000	1.5363	1.9742
Beaufort Sea	4	Light	523000	950000	1.5363	1.9742
Beaufort Sea	5	Crude	1900000	3900000	2.9486	5
Beaufort Sea	5	Distillate	523000	950000	1.5363	1.9742
Beaufort Sea	5	Heavy	523000	950000	1.5363	1.9742
Beaufort Sea	5	Light	523000	950000	1.5363	1.9742
Beaufort Sea	6	Crude	1900000	3900000	2.9486	5
Beaufort Sea	6	Distillate	523000	950000	1.5363	1.9742
Beaufort Sea	6	Heavy	523000	950000	1.5363	1.9742
Beaufort Sea	6	Light	523000	950000	1.5363	1.9742
Bristol Bay	1	Crude	0	0	0	0
Bristol Bay	1	Distillate	0	163000	0	1.1670
Bristol Bay	1	Heavy	163000	163000	1.1670	1.1670
Bristol Bay	1	Light	163000	163000	1.1670	1.1670
Bristol Bay	2	Crude	0	0	0	0
Bristol Bay	2	Distillate	0	163000	0	1.1670
Bristol Bay	2	Heavy	163000	163000	1.1670	1.1670
Bristol Bay	2	Light	163000	163000	1.1670	1.1670
Bristol Bay	3	Crude	0	0	0	0
Bristol Bay	3	Distillate	163000	163000	1.1670	1.1670
Bristol Bay	3	Heavy	163000	163000	1.1670	1.1670
Bristol Bay	3	Light	163000	163000	1.1670	1.1670
Bristol Bay	4	Crude	0	0	0	0
Bristol Bay	4	Distillate	163000	163000	1.1670	1.1670
Bristol Bay	4	Heavy	163000	163000	1.1670	1.1670
Bristol Bay	4	Light	163000	163000	1.1670	1.1670

Region	Period Code	Oil Type	WCD	Future_ WCD	Oil_WCD_ 1to5	Oil_WCD_ Future _1to5
Bristol Bay	5	Crude	0	0	0	0
Bristol Bay	5	Distillate	163000	163000	1.1670	1.1670
Bristol Bay	5	Heavy	163000	163000	1.1670	1.1670
Bristol Bay	5	Light	163000	163000	1.1670	1.1670
Bristol Bay	6	Crude	0	0	0	0
Bristol Bay	6	Distillate	163000	163000	1.1670	1.1670
Bristol Bay	6	Heavy	163000	163000	1.1670	1.1670
Bristol Bay	6	Light	163000	163000	1.1670	1.1670
Chukchi Sea	1	Crude	2200000	2200000	3.2563	3.2563
Chukchi Sea	1	Distillate	50000	950000	1.0511	1.9742
Chukchi Sea	1	Heavy	0	950000	0	1.9742
Chukchi Sea	1	Light	50000	950000	1.0511	1.9742
Chukchi Sea	2	Crude	2200000	2200000	3.2563	3.2563
Chukchi Sea	2	Distillate	50000	950000	1.0511	1.9742
Chukchi Sea	2	Heavy	0	950000	0	1.9742
Chukchi Sea	2	Light	50000	950000	1.0511	1.9742
Chukchi Sea	3	Crude	2200000	2200000	3.2563	3.2563
Chukchi Sea	3	Distillate	50000	950000	1.0511	1.9742
Chukchi Sea	3	Heavy	30000	950000	1.0306	1.9742
Chukchi Sea	3	Light	50000	950000	1.0511	1.9742
Chukchi Sea	4	Crude	2200000	2200000	3.2563	3.2563
Chukchi Sea	4	Distillate	50000	950000	1.0511	1.9742
Chukchi Sea	4	Heavy	30000	950000	1.0306	1.9742
Chukchi Sea	4	Light	50000	950000	1.0511	1.9742
Chukchi Sea	5	Crude	2200000	2200000	3.2563	3.2563
Chukchi Sea	5	Distillate	50000	950000	1.0511	1.9742
Chukchi Sea	5	Heavy	30000	950000	1.0306	1.9742
Chukchi Sea	5	Light	50000	950000	1.0511	1.9742
Chukchi Sea	6	Crude	2200000	2200000	3.2563	3.2563
Chukchi Sea	6	Distillate	50000	950000	1.0511	1.9742
Chukchi Sea	6	Heavy	30000	950000	1.0306	1.9742
Chukchi Sea	6	Light	50000	950000	1.0511	1.9742
Cook Inlet	1	Crude	1900000	950000	2.9486	1.9742
Cook Inlet	1	Distillate	523000	261500	1.5363	1.2681
Cook Inlet	1	Heavy	1900000	950000	2.9486	1.9742
Cook Inlet	1	Light	1900000	950000	2.9486	1.9742
Cook Inlet	2	Crude	1900000	950000	2.9486	1.9742
Cook Inlet	2	Distillate	523000	261500	1.5363	1.2681
Cook Inlet	2	Heavy	1900000	950000	2.9486	1.9742
Cook Inlet	2	Light	1900000	950000	2.9486	1.9742
Cook Inlet	3	Crude	1900000	950000	2.9486	1.9742
Cook Inlet	3	Distillate	523000	261500	1.5363	1.2681
Cook Inlet	3	Heavy	1900000	950000	2.9486	1.9742
Cook Inlet	3	Light	1900000	950000	2.9486	1.9742
Cook Inlet	4	Crude	1900000	950000	2.9486	1.9742
Cook Inlet	4	Distillate	523000	261500	1.5363	1.2681
Cook Inlet	4	Heavy	1900000	950000	2.9486	1.9742

Region	Period Code	Oil Type	WCD	Future_ WCD	Oil_WCD_ 1to5	Oil_WCD_ Future _1to5
Cook Inlet	4	Light	1900000	950000	2.9486	1.9742
Cook Inlet	5	Crude	1900000	950000	2.9486	1.9742
Cook Inlet	5	Distillate	523000	261500	1.5363	1.2681
Cook Inlet	5	Heavy	1900000	950000	2.9486	1.9742
Cook Inlet	5	Light	1900000	950000	2.9486	1.9742
Cook Inlet	6	Crude	1900000	950000	2.9486	1.9742
Cook Inlet	6	Distillate	523000	261500	1.5363	1.2681
Cook Inlet	6	Heavy	1900000	950000	2.9486	1.9742
Cook Inlet	6	Light	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	1	Crude	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	1	Distillate	523000	261500	1.5363	1.2681
Kodiak/Shelikof Strait	1	Heavy	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	1	Light	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	2	Crude	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	2	Distillate	523000	261500	1.5363	1.2681
Kodiak/Shelikof Strait	2	Heavy	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	2	Light	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	3	Crude	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	3	Distillate	523000	261500	1.5363	1.2681
Kodiak/Shelikof Strait	3	Heavy	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	3	Light	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	4	Crude	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	4	Distillate	523000	261500	1.5363	1.2681
Kodiak/Shelikof Strait	4	Heavy	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	4	Light	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	5	Crude	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	5	Distillate	523000	261500	1.5363	1.2681
Kodiak/Shelikof Strait	5	Heavy	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	5	Light	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	6	Crude	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	6	Distillate	523000	261500	1.5363	1.2681
Kodiak/Shelikof Strait	6	Heavy	1900000	950000	2.9486	1.9742
Kodiak/Shelikof Strait	6	Light	1900000	950000	2.9486	1.9742
Kotzebue Sound/Hope Basin	1	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	1	Distillate	0	163000	0	1.1670
Kotzebue Sound/Hope Basin	1	Heavy	0	163000	0	1.1670
Kotzebue Sound/Hope Basin	1	Light	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	2	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	2	Distillate	0	163000	0	1.1670
Kotzebue Sound/Hope Basin	2	Heavy	0	163000	0	1.1670
Kotzebue Sound/Hope Basin	2	Light	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	3	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	3	Distillate	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	3	Heavy	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	3	Light	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	4	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	4	Distillate	163000	163000	1.1670	1.1670

Region	Period Code	Oil Type	WCD	Future_ WCD	Oil_WCD_ 1to5	Oil_WCD_ Future _1to5
Kotzebue Sound/Hope Basin	4	Heavy	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	4	Light	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	5	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	5	Distillate	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	5	Heavy	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	5	Light	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	6	Crude	0	0	0	0
Kotzebue Sound/Hope Basin	6	Distillate	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	6	Heavy	163000	163000	1.1670	1.1670
Kotzebue Sound/Hope Basin	6	Light	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	1	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	1	Distillate	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	1	Heavy	0	163000	0	1.1670
Norton Sound/St. Lawrence Is.	1	Light	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	2	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	2	Distillate	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	2	Heavy	0	163000	0	1.1670
Norton Sound/St. Lawrence Is.	2	Light	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	3	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	3	Distillate	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	3	Heavy	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	3	Light	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	4	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	4	Distillate	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	4	Heavy	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	4	Light	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	5	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	5	Distillate	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	5	Heavy	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	5	Light	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	6	Crude	0	0	0	0
Norton Sound/St. Lawrence Is.	6	Distillate	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	6	Heavy	163000	163000	1.1670	1.1670
Norton Sound/St. Lawrence Is.	6	Light	163000	163000	1.1670	1.1670
Offshore Kenai Peninsula	1	Crude	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	1	Distillate	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	1	Heavy	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	1	Light	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	2	Crude	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	2	Distillate	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	2	Heavy	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	2	Light	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	3	Crude	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	3	Distillate	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	3	Heavy	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	3	Light	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	4	Crude	523000	261500	1.5363	1.2681

Region	Period Code	Oil Type	WCD	Future_ WCD	Oil_WCD_ 1to5	Oil_WCD_ Future _1to5
Offshore Kenai Peninsula	4	Distillate	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	4	Heavy	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	4	Light	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	5	Crude	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	5	Distillate	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	5	Heavy	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	5	Light	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	6	Crude	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	6	Distillate	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	6	Heavy	523000	261500	1.5363	1.2681
Offshore Kenai Peninsula	6	Light	523000	261500	1.5363	1.2681
Prince William Sound	1	Crude	1900000	261500	2.9486	1.2681
Prince William Sound	1	Distillate	523000	950000	1.5363	1.9742
Prince William Sound	1	Heavy	1900000	950000	2.9486	1.9742
Prince William Sound	1	Light	1900000	950000	2.9486	1.9742
Prince William Sound	2	Crude	1900000	261500	2.9486	1.2681
Prince William Sound	2	Distillate	523000	950000	1.5363	1.9742
Prince William Sound	2	Heavy	1900000	950000	2.9486	1.9742
Prince William Sound	2	Light	1900000	950000	2.9486	1.9742
Prince William Sound	3	Crude	1900000	261500	2.9486	1.2681
Prince William Sound	3	Distillate	523000	950000	1.5363	1.9742
Prince William Sound	3	Heavy	1900000	950000	2.9486	1.9742
Prince William Sound	3	Light	1900000	950000	2.9486	1.9742
Prince William Sound	4	Crude	1900000	261500	2.9486	1.2681
Prince William Sound	4	Distillate	523000	950000	1.5363	1.9742
Prince William Sound	4	Heavy	1900000	950000	2.9486	1.9742
Prince William Sound	4	Light	1900000	950000	2.9486	1.9742
Prince William Sound	5	Crude	1900000	261500	2.9486	1.2681
Prince William Sound	5	Distillate	523000	950000	1.5363	1.9742
Prince William Sound	5	Heavy	1900000	950000	2.9486	1.9742
Prince William Sound	5	Light	1900000	950000	2.9486	1.9742
Prince William Sound	6	Crude	1900000	261500	2.9486	1.2681
Prince William Sound	6	Distillate	523000	950000	1.5363	1.9742
Prince William Sound	6	Heavy	1900000	950000	2.9486	1.9742
Prince William Sound	6	Light	1900000	950000	2.9486	1.9742
South-Central Alaska	1	Crude	1900000	950000	2.9486	1.9742
South-Central Alaska	1	Distillate	0	950000	0	1.9742
South-Central Alaska	1	Heavy	1900000	950000	2.9486	1.9742
South-Central Alaska	1	Light	1900000	950000	2.9486	1.9742
South-Central Alaska	2	Crude	1900000	950000	2.9486	1.9742
South-Central Alaska	2	Distillate	0	950000	0	1.9742
South-Central Alaska	2	Heavy	1900000	950000	2.9486	1.9742
South-Central Alaska	2	Light	1900000	950000	2.9486	1.9742
South-Central Alaska	3	Crude	1900000	950000	2.9486	1.9742
South-Central Alaska	3	Distillate	523000	950000	1.5363	1.9742
South-Central Alaska	3	Heavy	1900000	950000	2.9486	1.9742
South-Central Alaska	3	Light	1900000	950000	2.9486	1.9742

Region	Period Code	Oil Type	WCD	Future_ WCD	Oil_WCD_ 1to5	Oil_WCD_ Future _1to5
South-Central Alaska	4	Crude	1900000	950000	2.9486	1.9742
South-Central Alaska	4	Distillate	523000	950000	1.5363	1.9742
South-Central Alaska	4	Heavy	1900000	950000	2.9486	1.9742
South-Central Alaska	4	Light	1900000	950000	2.9486	1.9742
South-Central Alaska	5	Crude	1900000	950000	2.9486	1.9742
South-Central Alaska	5	Distillate	523000	950000	1.5363	1.9742
South-Central Alaska	5	Heavy	1900000	950000	2.9486	1.9742
South-Central Alaska	5	Light	1900000	950000	2.9486	1.9742
South-Central Alaska	6	Crude	1900000	950000	2.9486	1.9742
South-Central Alaska	6	Distillate	523000	950000	1.5363	1.9742
South-Central Alaska	6	Heavy	1900000	950000	2.9486	1.9742
South-Central Alaska	6	Light	1900000	950000	2.9486	1.9742
Southeast Alaska	1	Crude	1900000	950000	2.9486	1.9742
Southeast Alaska	1	Distillate	523000	950000	1.5363	1.9742
Southeast Alaska	1	Heavy	1900000	950000	2.9486	1.9742
Southeast Alaska	1	Light	1900000	950000	2.9486	1.9742
Southeast Alaska	2	Crude	1900000	950000	2.9486	1.9742
Southeast Alaska	2	Distillate	523000	950000	1.5363	1.9742
Southeast Alaska	2	Heavy	1900000	950000	2.9486	1.9742
Southeast Alaska	2	Light	1900000	950000	2.9486	1.9742
Southeast Alaska	3	Crude	1900000	950000	2.9486	1.9742
Southeast Alaska	3	Distillate	523000	950000	1.5363	1.9742
Southeast Alaska	3	Heavy	1900000	950000	2.9486	1.9742
Southeast Alaska	3	Light	1900000	950000	2.9486	1.9742
Southeast Alaska	4	Crude	1900000	950000	2.9486	1.9742
Southeast Alaska	4	Distillate	523000	950000	1.5363	1.9742
Southeast Alaska	4	Heavy	1900000	950000	2.9486	1.9742
Southeast Alaska	4	Light	1900000	950000	2.9486	1.9742
Southeast Alaska	5	Crude	1900000	950000	2.9486	1.9742
Southeast Alaska	5	Distillate	523000	950000	1.5363	1.9742
Southeast Alaska	5	Heavy	1900000	950000	2.9486	1.9742
Southeast Alaska	5	Light	1900000	950000	2.9486	1.9742
Southeast Alaska	6	Crude	1900000	950000	2.9486	1.9742
Southeast Alaska	6	Distillate	523000	950000	1.5363	1.9742
Southeast Alaska	6	Heavy	1900000	950000	2.9486	1.9742
Southeast Alaska	6	Light	1900000	950000	2.9486	1.9742
Western Alaska	1	Crude	0	0	0	0
Western Alaska	1	Distillate	163000	950000	1.1670	1.9742
Western Alaska	1	Heavy	0	950000	0	1.9742
Western Alaska	1	Light	163000	950000	1.1670	1.9742
Western Alaska	2	Crude	0	0	0	0
Western Alaska	2	Distillate	163000	950000	1.1670	1.9742
Western Alaska	2	Heavy	0	950000	0	1.9742
Western Alaska	2	Light	163000	950000	1.1670	1.9742
Western Alaska	3	Crude	0	0	0	0
Western Alaska	3	Distillate	163000	950000	1.1670	1.9742
Western Alaska	3	Heavy	163000	950000	1.1670	1.9742

Region	Period Code	Oil Type	WCD	Future_ WCD	Oil_WCD_ 1to5	Oil_WCD_ Future _1to5
Western Alaska	3	Light	163000	950000	1.1670	1.9742
Western Alaska	4	Crude	0	0	0	0
Western Alaska	4	Distillate	163000	950000	1.1670	1.9742
Western Alaska	4	Heavy	163000	950000	1.1670	1.9742
Western Alaska	4	Light	163000	950000	1.1670	1.9742
Western Alaska	5	Crude	0	0	0	0
Western Alaska	5	Distillate	163000	950000	1.1670	1.9742
Western Alaska	5	Heavy	163000	950000	1.1670	1.9742
Western Alaska	5	Light	163000	950000	1.1670	1.9742
Western Alaska	6	Crude	0	0	0	0
Western Alaska	6	Distillate	163000	950000	1.1670	1.9742
Western Alaska	6	Heavy	163000	950000	1.1670	1.9742
Western Alaska	6	Light	163000	950000	1.1670	1.9742

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