## Incidental catch at BC marine finfish aquaculture sites

#### November 1st 2021

#### Context

Conditions of Licence for finfish aquaculture in British Columbia include requirements for facility operators to maintain an incidental catch log with record of wild fish caught at facilities during harvest and transfer events since 2011. This information is submitted to DFO and public reports are posted quarterly. The "Incidental catch at BC marine finfish aquaculture sites" dataset is available on the Open Canada website.

As stated on the website, the tables provided list the reported incidental catch of dead wild finfish and the year and month in which they were captured from B.C. marine finfish facilities during harvest and transfer events. Data are reported in the quarter in which the harvest activities ended and do not exist for farms that do not have fish on site or where no incidentally caught fish were recorded.

### Overview of Pacific salmon species reported during harvest and transfer events

Table 1: Pacific salmon species and total number of fish reported between 2011 and 2021 (incomplete) as incidental catches on aquaculture marine rearing sites in British Columbia

common_name	total
Chinook Salmon	137
Coho Salmon	115
Pink Salmon	79
Sockeye Salmon	2
Pacific Salmon	10
Chum Salmon	12

Table 2: All Pacific salmon species reported between 2011 and 2021 (incomplete) as incidental catches on aquaculture marine rearing sites in British Columbia

finfish_aquaculture_reporting_zone	total
Broughton Archipelago	47
Clayoquot Sound	192
Discovery Passage	83
Nootka Sound	17
Port Hardy	11
Quatsino Sound	1
Sunshine Coast	4

Table 3: Total number of Chinoook Salmon reported as incidental catches on aquaculture marine rearing sites in various Finfish Aquaculture Reporting Zones between 2011 and 2021 (up to April) in British Columbia

finfish_aquaculture_reporting_zone	total
Broughton Archipelago	11
Clayoquot Sound	110
Discovery Passage	6
Nootka Sound	8
Quatsino Sound	1
Sunshine Coast	1

Table 4: Total number of Chum Salmon reported as incidental catches on aquaculture marine rearing sites in various Finfish Aquaculture Reporting Zones between 2011 and 2021 (up to April) in British Columbia

finfish_aquaculture_reporting_zone	total
Broughton Archipelago	6
Port Hardy	6

Table 5: Total number of Coho Salmon reported as incidental catches on aquaculture marine rearing sites in various Finfish Aquaculture Reporting Zones between 2011 and 2021 (up to April) in British Columbia

finfish_aquaculture_reporting_zone	total
Broughton Archipelago	21
Clayoquot Sound	76
Discovery Passage	9
Nootka Sound	1
Port Hardy	5
Sunshine Coast	3

Table 6: Total number of Pink Salmon reported as incidental catches on aquaculture marine rearing sites in various Finfish Aquaculture Reporting Zones between 2011 and 2021 (up to April) in British Columbia

finfish_aquaculture_reporting_zone	total
Broughton Archipelago	8
Clayoquot Sound	4
Discovery Passage	67

Table 7: Total number of Sockeye Salmon reported as incidental catches on a quaculture marine rearing sites in various Finfish Aquaculture Reporting Zones between 2011 and 2021 (up to April) in British Columbia

finfish_aquaculture_r	reporting_	zone	total
Clayoquot Sound			2

# Appendix: All fish species reported during harvest and transfer events (needs data cleaning)

Table 8: Fish species and total number of fish reported between 2011 and 2021 (incomplete) as incidental catches on a quaculture marine rearing sites in British Columbia

common_name	scientific_name	total
English Sole	Parophrys vetulus	8
Pacific Hake	Merluccius productus	141
Pacific Herring	Clupea pallasii	NA
Pacific Staghorn Sculpin	Leptocottus armatus	192
Shiner Perch	Cymatogaster aggregata	253
Shiner Perch	Cymatogaster aggregata	1156
Surfperch	Embiotocidae	3617
Yellowtail Rockfish	Sebastes flavidus	1970
Yellowtail Rockfish	Sebastes flavidus	223
Pacific Cod	Gadus macrocephalus	34626
Striped Seaperch	Embiotoca lateralis	261
Rockfish	Sebastes sp.	14497
Rockfish	Sebastes sp.	1
Sablefish	Anoplopoma fimbria	10286
Chinook Salmon	Oncorhynchus tshawytscha	137
Chum Salmon	Oncorhynchus keta	23
Coho Salmon	Oncorhynchus kisutch	115
Lingcod	Ophiodon elongatus	17
Pink Salmon	Oncorhynchus gorbuscha	40
Pink Salmon	Oncorhynchus gorbuscha	39
Kelp Greenling	Hexagrammos decagrammus	12
China Rockfish	Sebastes nebulosus	18
Pile Perch	Rhacochilus vacca	215
Pile Perch	Rhacochilus vacca	2
Black Rockfish	Sebastes melanops	70
Buffalo Sculpin	Enophrys bison	23
Bay Pipefish	Syngnathus leptorhynchus	7
Pacific Tomcod	Microgadus proximus	346
Pacific Chub Mackerel	Scomber japonicus	66
Pilchard	Sardinops sagax	274
Unknown	Unknown	1
North Pacific Spiny Dogfish	Squalus suckleyi	13
Kelp Perch	Brachyistius frenatus	31
Silver Surfperch	Hyperprosopon ellipticum	3
Dover Sole	Microstomus pacificus	4
Sculpin	Cottidae	290
Threespine Stickleback	Gasterosteus aculeatus	100
Sockeye Salmon	Oncorhynchus nerka	2
Cabezon	Scorpaenichthys marmoratus	194
Walleye Pollock	Theragra chalcogramma	3799
Spotted Ratfish	Hydrolagus colliei	8
Brown Rockfish	Sebastes auriculatus	3
Dusky Rockfish	Sebastes variabilis	33
Pacific Salmon	Oncorhynchus sp.	10
Quillback Rockfish	Sebastes maliger	20

common_name	$scientific\_name$	total
Starry Flounder	Platichthys stellatus	1
Blue Rockfish	Sebastes mystinus	2
Codfish	Gadidae	1368
Copper Rockfish	Sebastes caurinus	93
Pacific Ocean Perch	Sebastes alutus	182
Dungeness Crab	Cancer magister	1
Flatfish	Pleuronectidae	2
Northern Anchovy	Engraulis mordax	1765
Yelloweye Rockfish	Sebastes ruberrimus	1
Unknown	Unknown	20
Striped Seaperch	Embiotoca lateralis	173
Pacific Sand Lance	Ammodytes hexapterus	1
Chum Salmon	Oncorhynchus keta	12
Tubesnout	Aulorhynchus flavidus	22
Gunnel	Pholidae	56
Wolf Eel	Anarrhichthys ocellatus	4